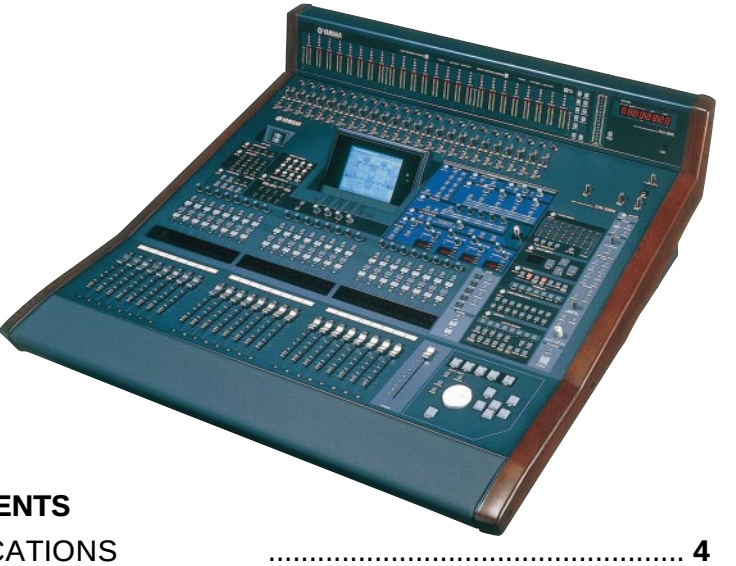
DIGITAL PRODUCTION CONSOLE/ PEAK METER BRIDGE/WOODEN SIDE PANELS

DM2000/MB2000/SP2000

SERVICE MANUAL



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OVERALL CIRCUIT DIAGRAM

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is belived to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING : Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus.)

IMPORTANT : Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN-AND-YELLOW :	EARTH
BLUE :	NEUTRAL
BROWN :	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

* This applies only to products distributed by YAMAHA KEMBLE MUSIC (U.K.) LTD.

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

LITHIUM BATTERY HANDLING

This product uses a lithium battery for memory back-up.

WARNING : Lithium batteries are dangerous because they can be exploded by improper handling. Observe the following precautions when handling or replacing lithium batteries.

- Leave lithium battery replacement to qualified service personnel.
- Always replace with batteries of the same type.
- When installing on the PC board by soldering, solder using the connection terminals provided on the battery cells.
- Never solder directly to the cells. Perform the soldering as quickly as possible.
- Never reverse the battery polarities when installing.
- Do not short the batteries.
- Do not attempt to recharge these batteries.
- Do not disasemble the batteries.
- Never heat batteries or throw them into fire.

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig handtering. Udskiftning ma kun ske med batteri af samme fabrikat og type. lever det brugte batteri tilbage til leverandren.

VARNING
Explosionsfara vid felaktigt batteribyte.
Anvand samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera anvant batteri enligt fabrikantens instruktion.

VAROITUS
Paristo voi rajahtaa, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiiin.
Havita kaytetty paristo valmistajan ohjeiden mukaisesti.
The following information complies with Dutch official Gazette 1995. 45; ESSENTIALS OF ORDER ON THE COLLECTION OF BATTERIES.

- Please refer to the diassembly procedure for the removal of Back-up Battery.
- Leest u voor het verwijderen van de backup batterij deze beschrijving.



Take care not to trap your fingers.

SPECIFICATIONS

• DM2000

Number of scene memories		99
Sampling Frequency	**Internal**	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
	External	Normal rate: 44.1 kHz–10% to 48 kHz+6%
		Double rate: 88.2 kHz–10% to 96 kHz+6%
Signal Delay		Less than 2.3 ms CH INPUT to STEREO OUT (fs=48 kHz)
		Less than 1.2 ms CH INPUT to STEREO OUT (fs=96 kHz)
Fader		100 mm motorized with touch sense X 25
Fader Resolution		+10 to –96, –∞ dB (256 steps/100 mm) input faders
		0 to –130, –∞ dB (256 steps/100 mm) master faders, stereo fader
Total Harmonic Distortion[*1] (CH INPUT to STEREO OUT) (Input Gain=Min.)	fs=48 kHz	Less than 0.05% 20 Hz to 20 kHz @ +14 dB into 600 Ω Less than 0.01% 1 kHz @ +18 dB into 600 Ω (fs=48 kHz)
	fs=96 kHz	Less than 0.05% 20 Hz to 40 kHz @ +14 dB into 600 Ω Less than 0.01% 1 kHz @ +18 dB into 600 Ω
Frequency Response (CH INPUT to STEREO OUT)		20 Hz–20 kHz, 0.5, –1.5 dB @ +4 dB into 600 Ω (fs=48 kHz)
		20 Hz–40 kHz, 0.5, –1.5 dB @ +4 dB into 600 Ω (fs=96 kHz)
Dynamic Range (maximum level to noise level)		110 dB typ. DA Converter (STEREO OUT)
		108 dB typ. AD+DA (to STEREO OUT) @ fs=48 kHz
		106 dB typ. AD+DA (to STEREO OUT) @ fs=96 kHz
Hum & Noise[*2] (20 Hz–20 kHz) Rs=150 Ω Input Gain=Max. Input Pad =0 dB		–128 dB Equivalent Input Noise
		–92 dB residual output noise. STEREO OUT (STEREO OUT off)
		–92 dB (96 dB S/N) STEREO OUT (STEREO fader at nominal level and all CH INPUT faders at minimum level)
		–64 dB (68 dB S/N) STEREO OUTPUT (STEREO fader at nominal level and one CH INPUT fader at nominal level)
Maximum Voltage Gain		74 dB CH INPUT (CH1–24) to STEREO OUT/OMNI (BUS) OUT
		74 dB CH INPUT (CH1–24) to OMNI (AUX) OUT (via pre input fader)
		74 dB CH INPUT (CH1–24) to CONTROL ROOM MONITOR OUT (via STEREO bus)
Crosstalk (@ 1 kHz) Input Gain=Min.		–80 dB adjacent input channels (CH1–24)
		–80 dB input to output
AD Input (1–24: A/B)	**Phantom switch**	+48 V DC is supplied to A (XLR-3-31 type) input
	Pad switch	0/26 dB attenuation
	Gain control	44 dB (–60 to –16), detented
	Peak indicator	LED (red) turns on when post HA level reaches 3 dB below clipping
	Signal indicator	LED (green) turns on when post HA level reaches 20 dB below nominal
	Insert	OUT, IN (pre AD converter)
	Insert switch	on/off
	AD converter	24-bit linear, 128-times oversampling (fs=48 kHz)
Analog Input (2TR IN ANALOG 1, 2)	**AD converter**	24-bit linear, 128-times oversampling (fs=48 kHz)
Option Input (SLOT 1–6)	**Available cards**	Optional digital interface cards (MY8, MY4 series)
Digital Input (2TR IN DIGITAL 1–3)	**SRC**	On/off (1:3 and 3:1 maximum input to output sample rate ratio)

Input Channel CH1–96	**Input patch**	—
	Phase	Normal/reverse
	Gate-type[*3]	On/off
		Key in: 12 ch Group (1–12, 13–24, 25–36, 37–48, 49–60, 61–72, 73–84, 85–96)/AUX1–12
	Comp-type[*4]	On/off
		Key in: self /Stereo Link
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ[*5]
		On/off
	Delay	0–43400 samples
	On/off	—
	Fader	100 mm motorized (INPUT/AUX1–12)
	Aux send	On/off
		AUX1–12; pre fader/post fader
	Solo	On/off
		Pre fader/after pan
	Pan	127 positions (Left= 1–63, Center, Right= 1–63)
	Surround pan	127 X 127 positions
	LFE level	–∞, –96 dB to +10 dB (256 step)
	Routing	STEREO, BUS1–8, DIRECT OUT
	Direct out	Pre EQ/pre fader/post fader
	Metering	Displayed on LCD
		Peak hold on/off
TALKBACK	**Level control**	Analog rotary potentiometer
	AD converter	24-bit linear, 128-times oversampling
	Talkback select	Built-in microphone/AD IN 1–24
	On/off	—
	Slate	On/off
OSCILLATOR	**Level**	0 to –96 dB (1 dB step)
	On/off	—
	Waveform	Sine 100 Hz, sine 1 kHz, sine 10 kHz, pink noise, burst noise
	Routing	BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO L, R
STEREO OUT	**DA converter**	24-bit linear, 128-times oversampling
OMNI OUT 1–8	**Output patch**	SURROUND MONITOR, STEREO, BUS1–8, AUX1–12, MATRIX1L–4R, DIRECT OUT 1–96, INSERT OUT (CH1–96, BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO)
	DA converter	24-bit linear, 128-times oversampling
CONTROL ROOM MONITOR OUT (LARGE, SMALL)	**Monitor select**	STEREO, 2TR IN DIGITAL 1, 2TR IN DIGITAL 2, 2TR IN DIGITAL 3, 2TR IN ANALOG 1, 2TR IN ANALOG 2, ASSIGN 1, 2 (BUS 1–8/AUX 1–12/MATRIX 1–4)
	Solo contrast	–96 to 0 dB (1 dB step)
	Mono	On/off
	Dimmer	On/off
	DA converter	24-bit linear, 128-times oversampling
	Level control	Analog rotary potentiometer
	Phones level	Analog rotary potentiometer
	Small trim	Analog rotary potentiometer

STUDIO MONITOR OUT	**Monitor select**	CONTROL ROOM, STEREO, AUX 11, AUX 12
	DA converter	24-bit linear, 128-times oversampling
	Level control	Analog rotary potentiometer
2TR OUT DIGITAL 1–3	**Dither**	On/off
		Word length 16, 20, 24-bit
	Output patch	STEREO, BUS1–8, AUX 1–12, MATRIX 1L–4R, DIRECT OUT 1–96, INSERT OUT, CONTROL ROOM
	SRC	On/off (1:3 and 3:1 maximum input to output sample rate ratio)
Option Output (SLOT 1–6)	**Available card**	Optional digital interface card (MY8, MY4 series)
	Output patch	SURROUND MONITOR, STEREO, BUS1–8, AUX1–12, MATRIX 1L–4R, DIRECT OUT 1–96, INSERT OUT (CH1–96, BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO)
	Dither	On/off
		Word length 16/20/24-bit
Memory card slot		SmartMedia
STEREO	**Comp-type**[*4]	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ[*5]
		On/off
	On/off	
	Fader	100 mm motorized
	Balance	127 positions (Left=1–63, Center, Right=1–63)
	Delay	0–43400 samples
	Matrix send	Pre fader/post fader
		Level (–∞, –96 dB to +10 dB)
		Pan: 127 positions (Left=1–63, Center, Right=1–63)
	Metering	Displayed on LCD
		Peak hold on/off
BUS1–8	**Comp-type**[*4]	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ[*5]
		On/off
	On/off	—
	Fader	100 mm motorized
	Delay	0–43400 samples
	Matrix send	Pre fader/post fader
		Level (–∞, –96 dB to +10 dB)
		Pan: 127 positions (Left=1–63, Center, Right=1–63)
	Bus to stereo	Level (–∞, –130 dB to 0 dB)
		On/off
		Pan: 127 positions (Left=1–63, Center, Right=1–63)
	Metering	Displayed on LCD
		Peak hold on/off

AUX1–12	**Comp-type**[*4]	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ [*5]
		On/off
	On/off	—
	Fader	100 mm motorized
	Delay	0–43400 samples
	Matrix send	Pre fader/post fader
		Level (–∞,–96 dB to +10 dB)
		Pan: 127 positions (Left=1–63, Center, Right=1–63)
	Metering	Displayed on LCD
		Peak hold on/off
MATRIX 1L–4R	**Comp-type**[*4]	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ [*5]
		On/off
	On/off	—
	Fader	100 mm motorized
	Balance	127 positions (Left=1–63, Center, Right=1–63)
	Delay	0–43400 samples
	Metering	Displayed on LCD
		Peak hold on/off
SURROUND MONITOR	**Mute**	On/off
	Solo	On/off
	Source	BUS1–8, SLOT 1–6
	Monitor to C-R	On/off
	Oscillator	Pink noise/500–2 kHz/1 kHz
	Monitor matrix	5.1→5.1, 5.1→3-1, 5.1→ST, 3.1→3.1, 3.1→ST
	Bass management	5 presets
	Monitor alignment	ATT (–12.0 dB to 12 dB 0.1 dB step), Delay (0–30.0 msec 0.01 msec step)
INTERNAL EFFECTS (EFFECT 1–8)	**Bypass**	On/off
	In/out	8-in, 8-out (EFFECT1–2): depends on effects type
		2-in, 2-out (EFFECT3–8): depends on effects type
	Effect-in from	AUX1–12/INSERT OUT/effect-out
	Effect-out to	Input patch/effect-in
GRAPHIC EQUALIZERS (GEQ 1–6)	**On/off**	—
	Band number	31
	Limit	±15 dB, ±12 dB, ±6 dB, –24 dB
	Insert position	BUS1–8/AUX1–12/STEREO L, R/MATRIX 1L–4R
Power Requirements	**Japan**	100 V, 50/60 Hz 230 W WITH OPTION 230 W WITHOUT OPTION 165 W
	U.S./Canada	120 V, 60 Hz 300 W
	Other	220–240 V, 50/60 Hz 300 W
Dimensions	**(H x D x W)**	257 x 821 x 906 mm (10.1" x 32.3" x 35.7")
Net weight		43 kg (94.8 lbs)
Operating free-air temperature range		10–35°C (50–95°F)
Storage temperature range		–20 to 60 °C (–4 to 140°F)

Supplied Accessories	AC Cable CD-ROM (Studio Manager)
Options	Digital interface card (MY8, MY4 series) PEAK METER BRIDGE: MB2000 SIDE PANEL: SP2000

*1. Total harmonic distortion is measured with a 6 dB/octave filter @ 80 kHz.
*2. Hum & Noise are measured with a 6 dB/octave filter @ 12.7 kHz; equivalent to a 20 kHz filter with infinite dB/octave attenuation.
*3. See “Gate Parameters” on page 8.
*4. See “Comp Parameters” on page 9.
*5. See “EQ Parameters” on page 8.

EQ Parameters

	LOW/HPF	L-MID	H-MID	HIGH /LPF
Q	0.1–10.0 (41 points) low shelving HPF	0.1–10.0 (41 points)		0.1–10.0 (41 points) high shelving LPF
F	21.2 Hz–20 kHz (1/12 oct step)			
G	±18 dB (0.1 dB step) HPF: on/off	±18 dB (0.1 dB step)		±18 dB (0.1 dB step) LPF: on/off

Gate Parameters

Gate	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Range	–70 dB to 0 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Hold	0.02 ms–1.96 s (216 points) @ 48 kHz
		0.02 ms–2.13 s (216 points) @ 44.1 kHz
		0.01 ms–981 ms (216 points) @ 96 kHz
		0.01 ms–1.06 s (216 points) @ 88.2 kHz
	Decay	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz
Ducking	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Range	–70 dB to 0 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Hold	0.02 ms–1.96 s (216 points) @ 48 kHz
		0.02 ms–2.13 s (216 points) @ 44.1 kHz
		0.01 ms–981 ms (216 points) @ 96 kHz
		0.01 ms–1.06 s (216 points) @ 88.2 kHz
	Decay	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz

Comp Parameters

Compressor	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	0 dB to +18 dB (0.1 dB step)
	Knee	Hard, 1, 2, 3, 4, 5 (6 step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz
Expander	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	0 dB to +18 dB (0.1 dB step)
	Knee	Hard, 1, 2, 3, 4, 5 (6 points)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz
Compander H	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	–18 dB to 0 dB (0.1 dB step)
	Width	1 dB–90 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz
Compander S	**Threshold**	–54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20 (15 points)
	Out gain	–18 dB to 0 dB (0.1 dB step)
	Width	1 dB–90 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
		3 ms–23.0 s (160 points) @ 88.2 kHz

Controls

Analog Section

INPUT 1–24	+48 V switch	ON/OFF
	PAD switch	0/26 dB
	GAIN control	–16 to –60 dB
	INSERT switch	ON/OFF
TALKBACK	TALKBACK LEVEL control	
STUDIO MONITOR OUT	STUDIO LEVEL control	
CONTROL ROOM MONITOR OUT	CONTROL ROOM LEVEL control	
CONTROL ROOM MONITOR OUT SMALL	SMALL TRIM control	
PHONES	PHONES LEVEL control	

Digital Section

FADER MODE Section	**MATRIX SELECT**	DISPLAY button
		MATRIX 1, MATRIX 2, MATRIX 3, MATRIX 4 buttons (w/LED)
	AUX SELECT	DISPLAY button
		AUX 1, AUX 2, AUX 3, AUX 4, AUX 5, AUX 6, AUX 7, AUX 8, AUX 9, AUX 10, AUX 11, AUX 12 buttons (w/LED)
	FADER MODE	FADER, AUX/MTRX button (w/LED)
	ENCODER MODE	DISPLAY button
		PAN, AUX/MTRX, ASSIGN 1, ASSIGN 2, ASSIGN 3, ASSIGN 4 buttons (w/LED)
DISPLAY CONTROL Section	**DISPLAY buttons**	DATA, DIO, SETUP, UTILITY, MIDI, REMOTE, METER, VIEW, PAIR, GROUP, INPUT PATCH, OUTPUT PATCH
	EFFECTS/PLUG-INS	DISPLAY access, ▲, ▼
		INTERNAL EFFECTS, GRAPHIC EQUALIZERS, PLUG-INS, CHANNEL INSERTS 1, 2, 3, 4, 5, 6, 7, 8
		Parameter control: 1, 2, 3, 4
	Others	◀, F1, F2, F3, F4, ▶ buttons
		LCD contrast control

SELECTED CHANNEL Section	**ROUTING**	DISPLAY button
		1, 2, 3, 4, 5, 6, 7, 8, STEREO, DIRECT, FOLLOW PAN buttons (w/LED)
	PHASE/INSERT	DISPLAY button
		Ø, INSERT ON buttons (w/LED)
	DELAY	DISPLAY button
		ON button (w/LED)
		TIME control
		MIX/FB control (w/SW)
	AUX/MATRIX SEND	DISPLAY, BANK button
		ON button (w/LED) x 4
		LEVEL control (w/SW) x 4
	DYNAMICS	DISPLAY, GATE /COMP buttons
		GATE ON, COMP ON buttons (w/LED)
		Parameter control x 5
	PAN/SURROUND	DISPLAY button
		L, R, LINK, GRAB, EFFECT buttons (w/LED)
		Pan control
		Joystick (Sound image position control)
	EQUALIZER	DISPLAY button
		EQ ON button (w/LED)
		ATT control, GAIN controls: LOW, LOW-MID, HIGH-MID, HIGH
		FREQUENCY/Q controls: LOW, LOW-MID, HIGH-MID, HIGH controls (w/SW)
	CH COPY/PASTE	COPY, PASTE buttons
MONITOR Section	**MONITOR**	DISPLAY button
	STUDIO	CONTROL ROOM, STEREO, AUX 11, AUX 12 buttons (w/LED)
	SOLO	CLEAR button
		SOLO CONTRAST control
	CONTROL ROOM	STEREO: 2TR D1, 2TR D2, 2TR D3, 2TR A1, 2TR A2, STEREO, ASSIGN 1, ASSIGN 2 buttons (w/LED)
	SURROUND	BUS, ASSIGN 1, ASSIGN 2 buttons (w/LED)
	Others	SURROUND MONITOR LEVEL control
		MONO, DIMMER, SMALL buttons (w/LED)
	TALKBACK	SLATE, TALKBACK buttons (w/LED)
SCENE MEMORY, AUTOMIX and USER DEFINED KEYS section	**SCENE MEMORY**	DISPLAY button
		▲, ▼, STORE, RECALL buttons
	AUTOMIX	DISPLAY button
		ENABLE, REC, ABORT/UNDO, AUTOREC, RETURN, RELATIVE, TOUCH SENSE buttons (w/LED)
		OVERWRITE parameters: FADER, ON, PAN, SURROUND, AUX, AUX ON, EQ buttons (w/LED)
	USER DEFINED KEYS	DISPLAY button
		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 buttons (w/LED)

MACHINE CONTROL Section	**TRACK ARMING**	DISPLAY, ALL CLEAR buttons
		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, MASTER, TRACK ARMING GROUP: A, B, C, D buttons (w/LED)
	LOCATOR	DISPLAY button
		LOCATE MEMORY: 1, 2, 3, 4, 5, 6, 7, 8, AUDITION, PRE, IN, OUT, POST, SET, MTR, RETURN TO ZERO, END, ONLINE, LOOP, QUICK PUNCH, ROLL BACK, REHEARSAL, MASTER buttons (w/LED)
	TRANSPORT CONTROL	REW, FF, STOP, PLAY, REC, SHUTTLE, SCRUB (w/LED)
CHANNEL STRIP Section	**Encoders**	x 24 (1–24)
	Buttons	AUTO x 24 (1–24), SEL x 24 (1–24), SOLO x 24 (1–24), ON x 24 (1–24)
	Faders (w/ touch sense)	x 24 (1–24)
MASTER Section	**LAYER**	Input CH: 1–24, 25–48, 49–72, 73–96, MASTER, REMOTE 1, REMOTE 2, REMOTE 3, REMOTE 4 buttons (w/LED)
	STEREO	AUTO, SEL, ON buttons (w/LED)
		Fader (w/touch sense) x 1
DATA ENTRY Section	**Buttons**	DISPLAY HISTORY: BACK, FORWARD, INC, DEC, ▲, ▼, ◄, ►, ENTER buttons
	Encoder	Parameter wheel

Indicators

Analog Section

PEAK LED	x24	INPUT 1–24
SIGNAL LED	x24	INPUT 1–24

Digital Section

DISPLAY CONTROL Section	**DISPLAY**	320 X 240 dot graphic LCD (w/contrast control potentiometer)
SELECTED CHANNEL Section	**DELAY**	MIX, FB LEDs x2
	AUX / MATRIX SEND	BANK LEDs x3
	DYNAMICS	GATE, COMP LEDs x2
	PAN/SURROUND	Pan position LEDs x10
	EQUALIZER	FREQUENCY, Q LEDs 2 X 4
		dB, Hz, kHz 3 X 4
		3-digit numeric LEDs x4 (parameter value)
MONITOR Section	**SOLO**	LED x1
SCENE MEMORY section	**Scene memory number**	2-digit numeric LED x1
CHANNEL STRIP Section	**CH NAME, routing, panning position, EQ, INS, DLY, COMP, GATE: on/ off, touch sense status, etc**	2 color VFD (FL) units x3

Libraries

Effect library (EFFECT 1–8)	Presets	52 (EFFECT 3–8: 44)
	User memories	76
Compressor library	Presets	36
	User memories	92
Gate library	Presets	4
	User memories	124
EQ library	Presets	40
	User memories	160
Channel library	Presets	2
	User memories	127
GEQ library (GEQ 1–6)	Presets	1
	User memories	128
Surround Monitor library	Presets	1
	User memories	32
Input patch library	Presets	1
	User memories	32
Output patch library	Presets	1
	User memories	32
Bus to Stereo library	Presets	1
	User memories	32

Analog Input Spec

Input	PAD	GAIN	Actual Load Impedance	For Use With Nominal	Input level			Connector
					Sensitivity*1	Nominal	Max. before clip	
INPUT A/B 1–24	0	–60 dB	3k Ω	50–600 Ω Mics & 600 Ω Lines	–70 dB (0.245 mV)	–60 dB (0.775 mV)	–46 dB (3.88 mV)	A: XLR-3-31 type (Balanced)*2
		–16 dB			–26 dB (38.8 mV)	–16 dB (0.123 V)	–2 dB (616 mV)	B: Phone jack (TRS)(Balanced)*3
	26				0dB (775 mV)	+10 dB (2.45 V)	+24 dB (12.28 V)	
INSERT IN 1–24	—		10K Ω	600 Ω Lines	–6dB (388 mV)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone jack (TRS) (Balanced)*3
2TR IN ANALOG 1 [L, R]	—		10K Ω	600 Ω Lines	+4 dB (1.23 V)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone jack (TRS) (Balanced)*3
2TR IN ANALOG 2 [L, R]	—		10K Ω	600 Ω Lines	–10 dBV (0.316 V)	–10 dBV (0.316 V)	+4 dBV (1.58 V)	Phono (Unbalanced)

*1. Sensitivity is the lowest level that will produce an output of +4 dB (1.23 V) or the nominal output level when the unit is set to maximum gain. (All faders and level controls are maximum position.)
*2. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).
*3. Phone jacks are balanced (Tip=HOT, Ring=COLD, Sleeve=GND).

In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.
For 2TR IN ANALOG 1, 2 levels, 0 dBV is referenced to 1.00 Vrms.
All input AD converters (except INSERT IN 1–24) are 24-bit linear, 128-times oversampling.
+48 V DC (phantom power) is supplied to CH INPUT (1–24) XLR type connectors via individual switches.

Analog Output Spec

Output	Actual Source Impedance	For Use With Nominal	GAIN SW	Output level		Connector
				Nominal	Max. before clip	
STEREO OUT [L, R]	600 Ω	10k Ω Lines	—	–10 dBV (0.316 V)	+4 dBV (1.58 V)	Phono (Unbalanced)
	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)*1
STUDIO MONITOR OUT [L, R]	150 Ω	10k Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)*2
C-R MONITOR OUT LARGE [L, R]	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)*1
C-R MONITOR OUT SMALL [L, R]	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)*1
OMNI OUT 1–8	150 Ω	10k Ω Lines	+18 dB (default)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)*2
			+4 dB	–10 dB (0.245 V)	+4 dB (1.23 V)	
INSERT OUT 1–24	600 Ω	10k Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)*2
PHONES	100 Ω	8 Ω Lines	—	4 mW	25 mW	Stereo Phone Jack (TRS) (Unbalanced)*3
		40 Ω Lines	—	12 mW	75 mW	

*1. XLR-3-32 type connectors are balanced (1=GND, 2=HOT, 3=COLD).
*2. Phone jacks are balanced (Tip=HOT, Ring=COLD, Sleeve=GND).
*3. PHONES stereo phone jack is unbalanced (Tip=LEFT, Ring=RIGHT, Sleeve=GND).

STEREO OUT [L, R], 0 dBV is referenced to 1.00 Vrms.
In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.
All output DA converters (except INSERT OUT 1–24) are 24-bit, 128-times oversampling.

Digital Input Spec

Input		Format	Data length	Level	Connector
2TR IN DIGITAL	1	AES/EBU	24-bit	RS422	XLR-3-31 type (Balanced)*1
	2	AES/EBU	24-bit	RS422	XLR-3-31 type (Balanced)*1
	3	IEC-60958	24-bit	0.5 Vpp/75 Ω	PHONO
CASCADE IN		—	—	RS422	D-SUB Half Pitch Connector 68P (Female)

*1. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

Digital Output Spec

Output		Format	Data length	Level	Connector
2TR OUT DIGITAL	1	AES/EBU*1 Professional use	24-bit*2	RS422	XLR-3-32 type (Balanced)*3
	2	AES/EBU*1 Professional use	24-bit*2	RS422	XLR-3-32 type (Balanced)*3
	3	IEC-60958*4 Consumer use	24-bit*2	0.5V pp/75 Ω	Phono
CASCADE OUT		—	—	RS422	D-SUB Half Pitch Connector 68P (Female)

*1. Channel status of 2TR OUT DIGITAL 1, 2
Type: 2 audio channels
Emphasis: NO
Sampling rate: depends on the internal configuration

*2. Dither: word length 16/20/24 bit

*3. XLR-3-32 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

*4. Channel status of 2TR OUT DIGITAL 3
Type: 2 audio channels
Category code: 2 channel PCM encoder/decoder
Copy prohibit: NO
Emphasis: NO
Clock accuracy: Level II (1000 ppm)
Sampling rate: depends on the internal configuration

I/O Slot Spec

Each I/O SLOT accepts a digital interface card. Only SLOT #1 has a serial interface.

Card Name	Function	Accept	Input	Output	Number of available cards
MY8-AT	ADAT	YES	8 IN	8 OUT (depends on output patch)*1	6
MY8-TD	TASCAM	YES	8 IN	8 OUT (depends on output patch)*1	6
MY8-AE	AES/EBU	YES	8 IN	8 OUT (depends on output patch)*1	6
MY4-AD	ANALOG IN	YES	4 IN	—	6
MY8-AD	ANALOG IN	YES	8 IN	—	6
MY4-DA	ANALOG OUT	YES	—	4 OUT (depends on output patch)*1	6
MY8-AD24	ANALOG IN	YES	8 IN	—	6
MY8-AD96	ANALOG IN	YES	8 IN	—	6
MY8-DA96	ANALOG OUT	YES	—	8 OUT (depends on output patch)*1	6
MY8-AE96S	AES/EBU	YES	8 IN	8 OUT (depends on output patch)*1	4
MY8-AE96	AES/EBU	YES	8 IN	8 OUT (depends on output patch)*1	6

*1. See the Digital I/O chapter.
Details depend on each interface card.

Control I/O Spec

I/O Port		Format	Level	Connector in Console
TO HOST	**Serial**	—	RS422	Mini DIN Connector 8P
	USB	USB 1.1	0 V–3.3 V	B type USB connector
MIDI	**IN**	MIDI	—	DIN Connector 5P
	OUT	MIDI	—	DIN Connector 5P
	THRU	MIDI	—	DIN Connector 5P
TIME CODE IN	**MTC**	MIDI	—	DIN Connector 5P
	SMPTE	SMPTE	Nominal –10 dB/10k Ω	XLR-3-31 type (Balanced)*1
WORD CLOCK	**IN**	—	TTL/75 Ω (ON/OFF)*2	BNC Connector
	OUT 1, 2	—	TTL/75 Ω	BNC Connector
CONTROL		—	—	D-SUB Connector 25P (Female)
REMOTE		—	RS422	D-SUB Connector 9P (Male)
KEYBOARD		PS/2	—	DIN Connector 6P
STORAGE CARD		—	—	SmartMedia slot
METER		—	RS422	D-SUB Connector 15P (Female)

*1. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).
*2. This switch is on the rear panel.

Connector Pin Assignments

CASCADE IN

Pin	Signal	Pin	Signal
1	GND	35	GND
2	INPUT 1-2(+)	36	INPUT 1-2(–)
3	INPUT 3-4(+)	37	INPUT 3-4(–)
4	INPUT 5-6(+)	38	INPUT 5-6(–)
5	INPUT 7-8(+)	39	INPUT 7-8(–)
6	INPUT 9-10(+)	40	INPUT 9-10(–)
7	INPUT 11-12(+)	41	INPUT 11-12(–)
8	INPUT 13-14(+)	42	INPUT 13-14(–)
9	INPUT 15-16(+)	43	INPUT 15-16(–)
10	DTR IN(+)	44	DTR IN(–)
11	RTS OUT(+)	45	RTS OUT(–)
12	GND	46	GND
13	WORD CLOCK IN(+)	47	WORD CLOCK IN(–)
14	WORD CLOCK OUT(+)	48	WORD CLOCK OUT(–)
15	CONTROL IN(+)	49	CONTROL IN(–)
16	CONTROL OUT(+)	50	CONTROL OUT(–)
17	GND	51	ID6 IN
18	GND	52	ID6 OUT
19	INPUT 17-18(+)	53	INPUT 17-18(–)
20	INPUT 19-20(+)	54	INPUT 19-20(–)
21	INPUT 21-22(+)	55	INPUT 21-22(–)
22	INPUT 23-24(+)	56	INPUT 23-24(–)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 IN	61	ID1 IN
28	ID2 IN	62	ID3 IN
29	ID4 IN	63	ID5 IN
30	ID0 OUT	64	ID1 OUT
31	ID2 OUT	65	ID3 OUT
32	ID4 OUT	66	ID5 OUT
33	MSB IN	67	2CH/LINE IN
34	FG	68	FG

CASCADE OUT

Pin	Signal	Pin	Signal
1	GND	35	GND
2	OUTPUT 1-2(+)	36	OUTPUT 1-2(–)
3	OUTPUT 3-4(+)	37	OUTPUT 3-4(–)
4	OUTPUT 5-6(+)	38	OUTPUT 5-6(–)
5	OUTPUT 7-8(+)	39	OUTPUT 7-8(–)
6	OUTPUT 9-10(+)	40	OUTPUT 9-10(–)
7	OUTPUT 11-12(+)	41	OUTPUT 11-12(–)
8	OUTPUT 13-14(+)	42	OUTPUT 13-14(–)
9	OUTPUT 15-16(+)	43	OUTPUT 15-16(–)
10	DTR OUT(+)	44	DTR OUT(–)
11	RTS IN(+)	45	RTS IN(–)
12	GND	46	GND
13	WORD CLOCK OUT(+)	47	WORD CLOCK OUT(–)
14	WORD CLOCK IN(+)	48	WORD CLOCK IN(–)
15	CONTROL OUT(+)	49	CONTROL OUT(–)
16	CONTROL IN(+)	50	CONTROL IN(–)
17	GND	51	ID6 OUT
18	GND	52	ID6 IN
19	OUTPUT 17-18(+)	53	OUTPUT 17-18(–)
20	OUTPUT 19-20(+)	54	OUTPUT 19-20(–)
21	OUTPUT 21-22(+)	55	OUTPUT 21-22(–)
22	OUTPUT 23-24(+)	56	OUTPUT 23-24(–)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 OUT	61	ID1 OUT
28	ID2 OUT	62	ID3 OUT
29	ID4 OUT	63	ID5 OUT
30	ID0 IN	64	ID1 IN
31	ID2 IN	65	ID3 IN
32	ID4 IN	66	ID5 IN
33	MSB OUT	67	2CH/LINE OUT
34	FG	68	FG

REMOTE Port

Pin	Signal	Pin	Signal
1	GND	6	RX+/GND *1
2	RX–/RX– *1	7	RTS/RX+ *1
3	TX–/TX+ *1	8	CTS/TX– *1
4	TX+/GND *1	9	GND
5	N.C.		

*1. RS422 (for AD824)/SONY 9-pin protocol (P2).

CONTROL Port

Pin	Signal	Pin	Signal
1	GPO0	14	GPO1
2	GPO2	15	GPO3
3	GPO4	16	GPO5
4	GPO6	17	GPO7
5	GND	18	GND
6	GND	19	GND
7	GND	20	GND
8	GND	21	+5V
9	+5V	22	GPI0
10	GPI1	23	N.C.
11	N.C.	24	SOLO *1
12	SMODE *1	25	MAS/SLV *1
13	SPARE *1		

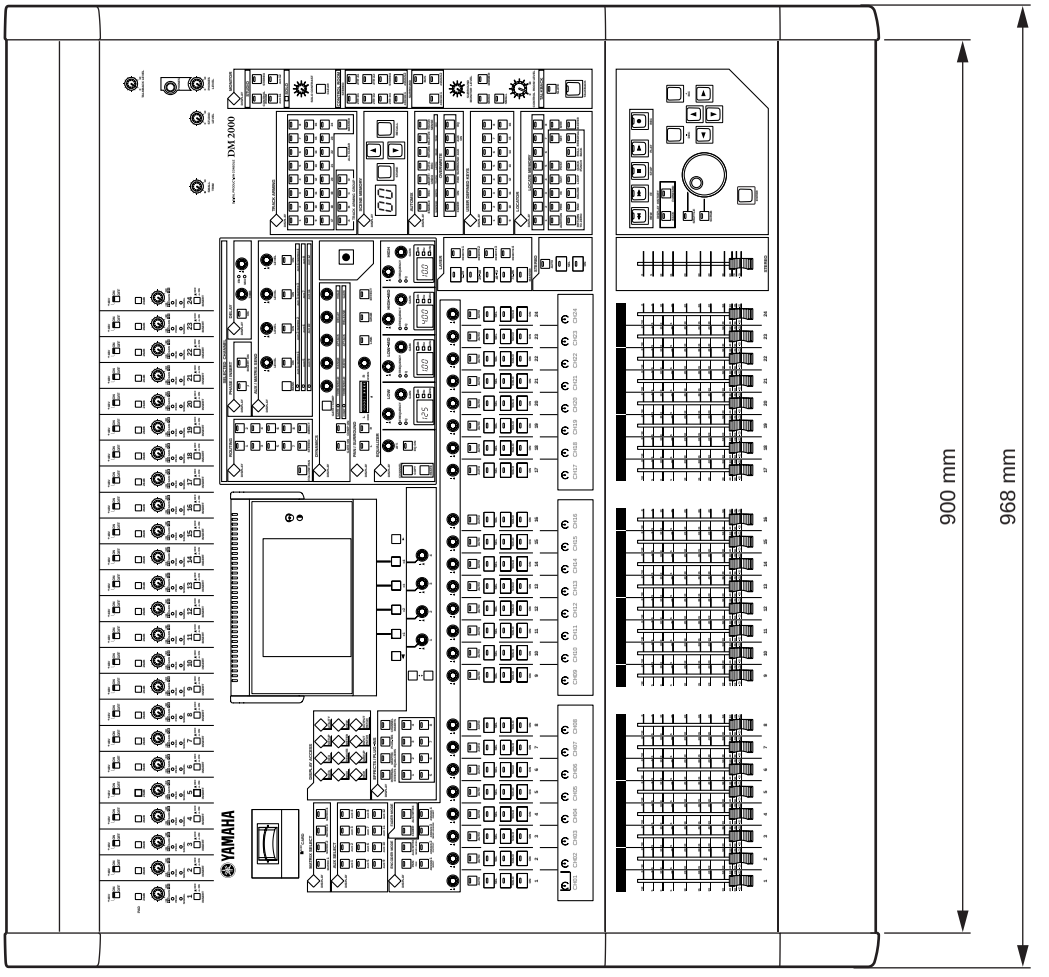
*1. For 02R SOLO control.

• MB2000

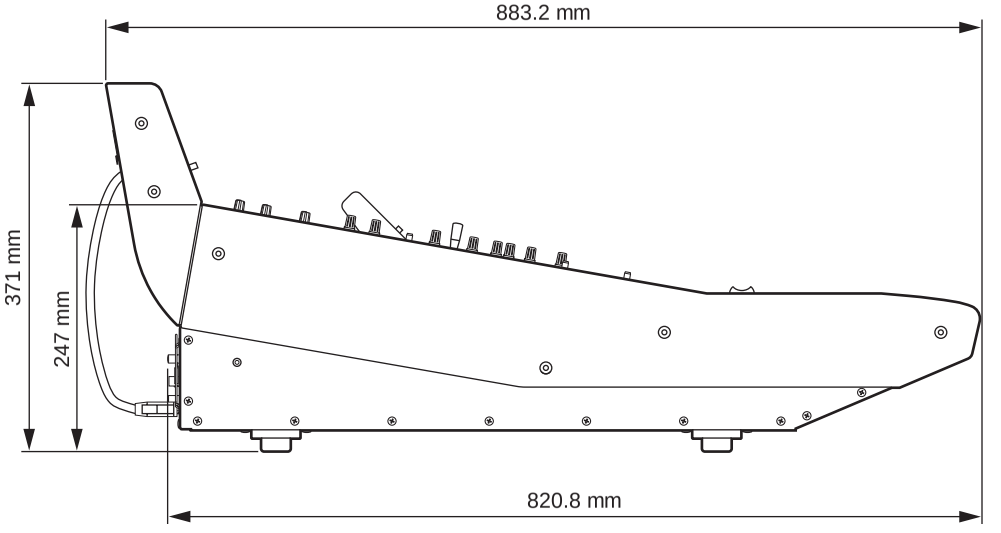
Dimensions (W X H X D) : 904.0 X 123.5 X 95.0 mm
Weight : 3.8 kg

■ DIMENSIONS

• Top view

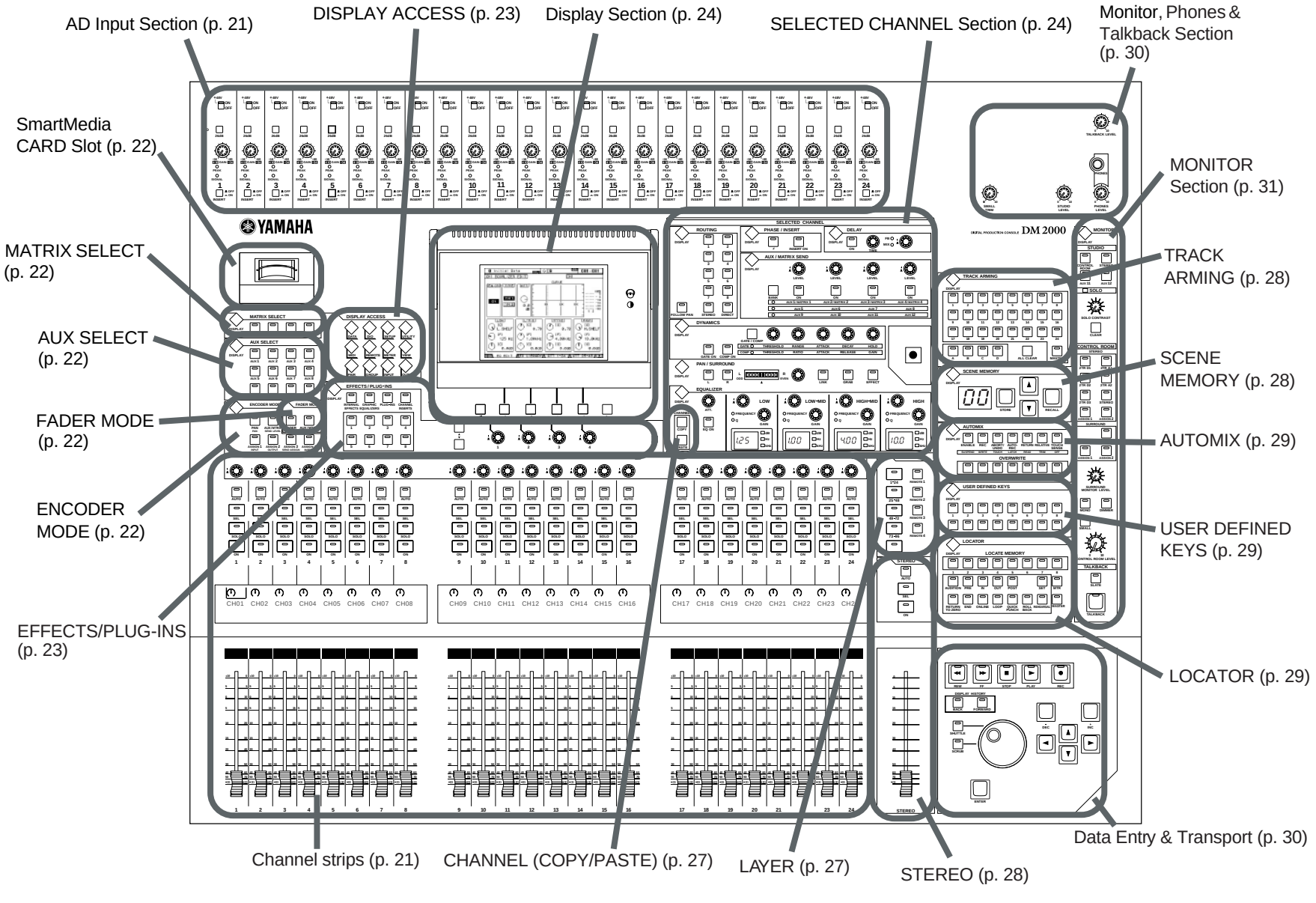


• Side view

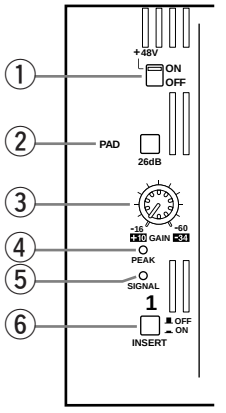


■ PANEL LAYOUT

- **DM2000**
- **Control Panel**

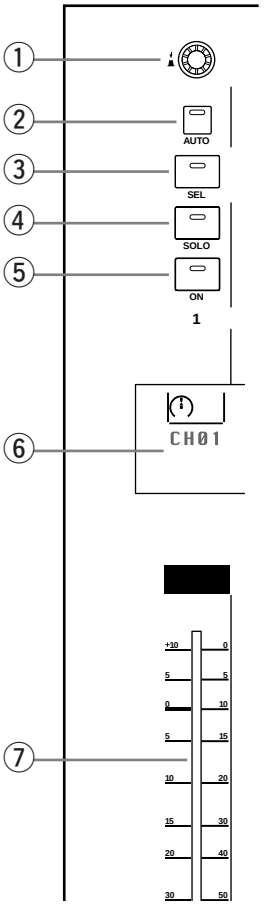


AD Input Section



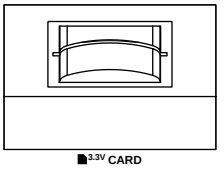
① [+48V ON/OFF] switches
② [PAD] switches
③ [GAIN] controls
④ [PEAK] indicators
⑤ [SIGNAL] indicators
⑥ [INSERT ON/OFF] switches

Channel strips

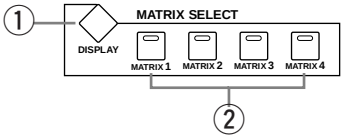


① Encoders
② [AUTO] buttons
③ [SEL] buttons
④ [SOLO] buttons
⑤ [ON] buttons
⑥ Channel strip displays
⑦ Channel faders

SmartMedia CARD Slot

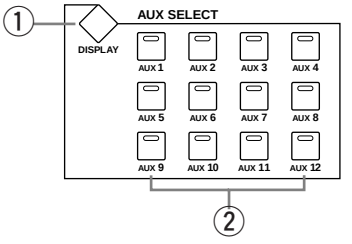


MATRIX SELECT



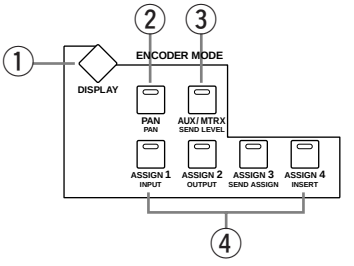
① **MATRIX SELECT [DISPLAY] button**
② **[MATRIX 1]–[MATRIX 4] buttons**

AUX SELECT



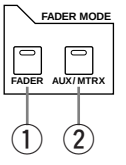
① **AUX SELECT [DISPLAY] button**
② **[AUX 1]–[AUX 12] buttons**

ENCODER MODE



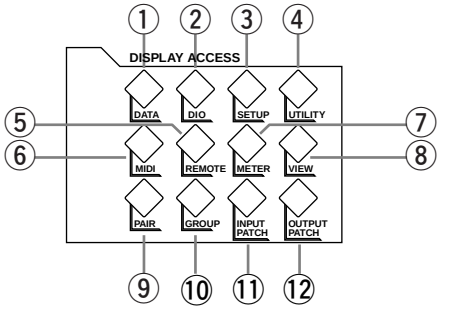
① **ENCODER MODE [DISPLAY] button**
② **[PAN] button**
③ **[AUX/MTRX] button**
④ **[ASSIGN 1]–[ASSIGN 4] buttons**

FADER MODE



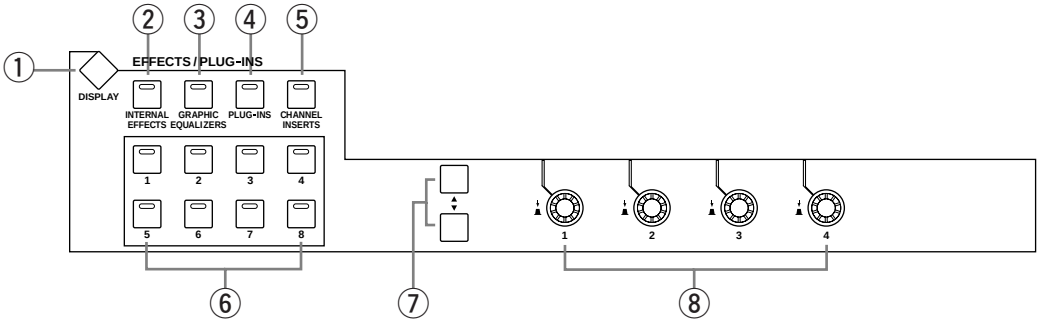
① **[FADER] button**
② **[AUX/MTRX] button**

DISPLAY ACCESS



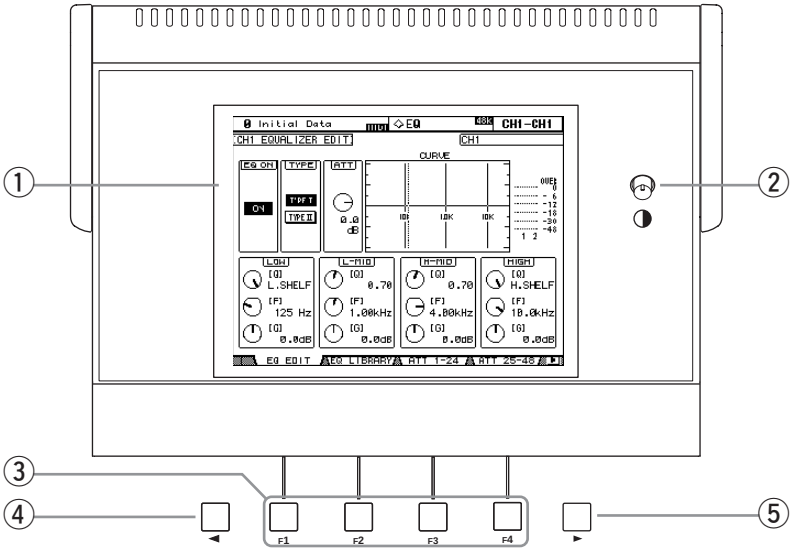
① **[DATA] button**
② **[DIO] button**
③ **[SETUP] button**
④ **[UTILITY] button**
⑤ **[REMOTE] button**
⑥ **[MIDI] button**
⑦ **[METER] button**
⑧ **[VIEW] button**
⑨ **[PAIR] button**
⑩ **[GROUP] button**
⑪ **[INPUT PATCH] button**
⑫ **[OUTPUT PATCH] button**

EFFECTS/PLUG-INS



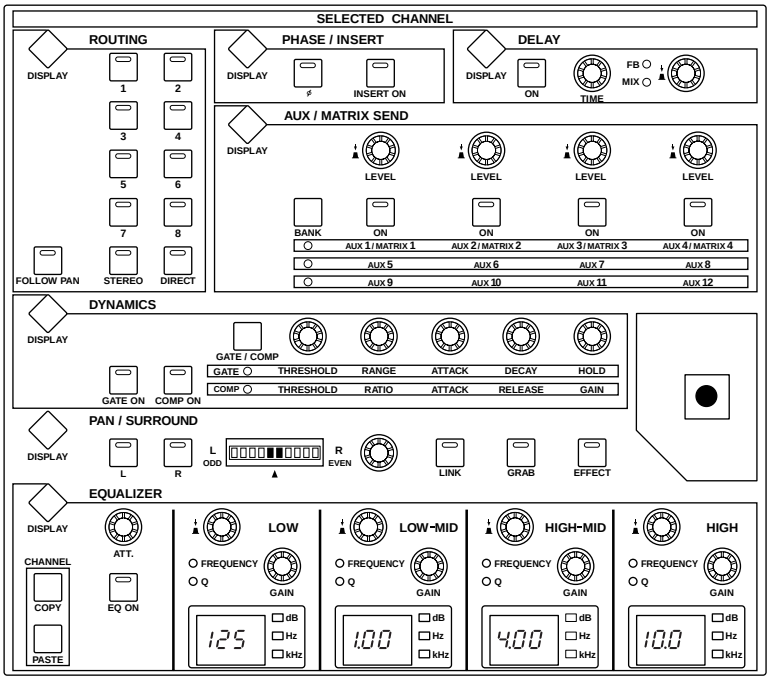
① **EFFECTS/PLUG-INS [DISPLAY] button**
② **[INTERNAL EFFECTS] button**
③ **[GRAPHIC EQUALIZERS] button**
④ **[PLUG-INS] button**
⑤ **[CHANNEL INSERTS] button**
⑥ **EFFECTS/PLUG-INS [1]–[8] buttons**
⑦ **Parameter Up/Down buttons**
⑧ **Parameter controls [1]–[4]**

Display Section

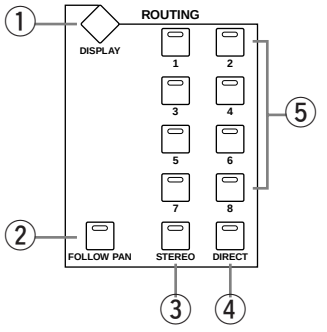


① **Display**
② **Contrast control**
③ **[F1]–[F4] buttons**
④ **Left Tab Scroll button**
⑤ **Right Tab Scroll button**

SELECTED CHANNEL Section

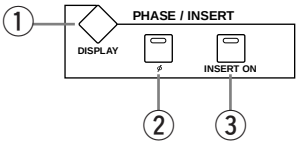


ROUTING



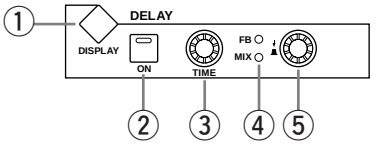
① **ROUTING [DISPLAY] button**
② **[FOLLOW PAN] button**
③ **[STEREO] button**
④ **[DIRECT] button**
⑤ **ROUTING [1]–[8] buttons**

PHASE/INSERT



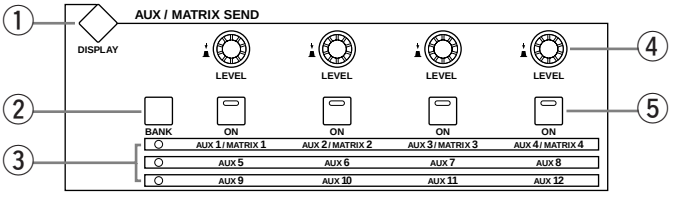
① **PHASE/INSERT [DISPLAY] button**
② **Phase [ø] button**
③ **[INSERT ON] button**

DELAY



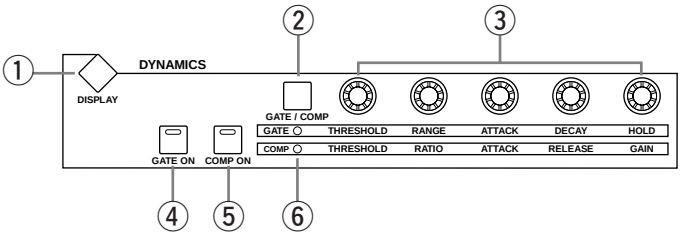
① **DELAY [DISPLAY] button**
② **[ON] button**
③ **[TIME] control**
④ **[FB/MIX] indicators**
⑤ **[FB/MIX] control**

AUX/MATRIX SEND



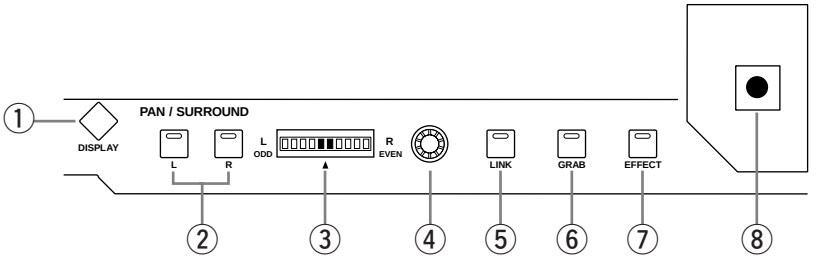
① **AUX/MATRIX SEND [DISPLAY] button**
② **[BANK] button**
③ **Bank indicators**
④ **[LEVEL] controls**
⑤ **[ON] buttons**

DYNAMICS



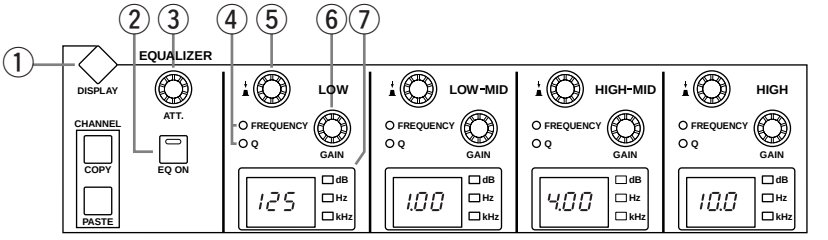
① **DYNAMICS [DISPLAY] button**
② **[GATE/COMP] button**
③ **[THRESHOLD], [RANGE], [ATTACK], [DECAY], [HOLD] ([THRESHOLD], [RATIO], [ATTACK], [RELEASE], [GAIN]) controls**
④ **[GATE ON] button**
⑤ **[COMP ON] button**
⑥ **[GATE/COMP] indicators**

PAN/SURROUND



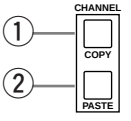
① **PAN/SURROUND [DISPLAY] button**
② **[L] & [R] buttons**
③ **PAN display**
④ **PAN control**
⑤ **[LINK] button**
⑥ **[GRAB] button**
⑦ **[EFFECT] button**
⑧ **Joystick**

EQUALIZER



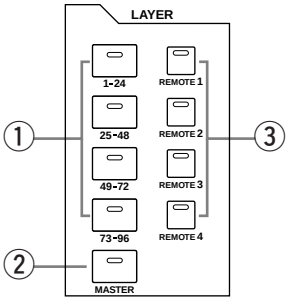
① **EQUALIZER [DISPLAY] button**
② **[EQ ON] button**
③ **[ATT] control**
④ **[FREQUENCY/Q] indicators**
⑤ **[FREQUENCY/Q] controls**
⑥ **EQ [GAIN] controls**
⑦ **EQ displays**

CHANNEL (COPY/PASTE)



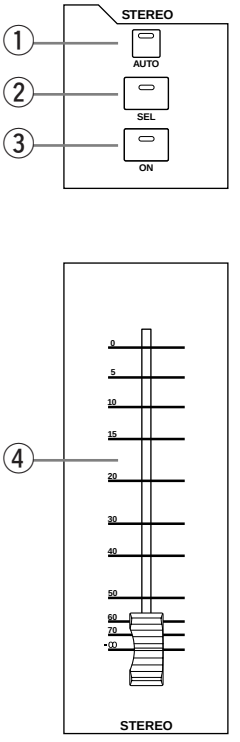
① **[COPY] button**
② **[PASTE] button**

LAYER



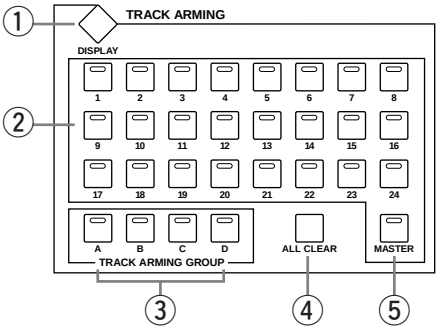
① **[1–24], [25–48], [49–72] & [73–96] buttons**
② **[MASTER] button**
③ **[REMOTE 1]–[REMOTE 4] buttons**

STEREO



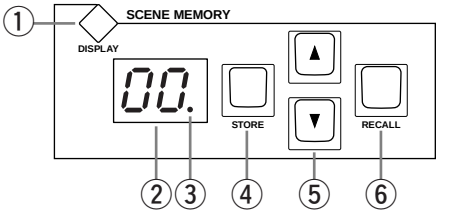
① [AUTO] button
② [SEL] button
③ [ON] button
④ Fader

TRACK ARMING



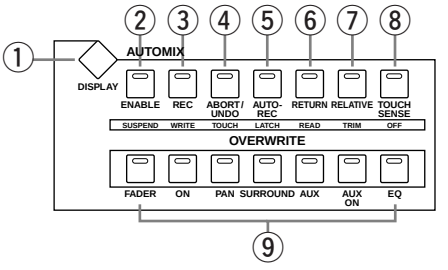
① TRACK ARMING [DISPLAY] button
② TRACK ARMING [1]–[24] buttons
③ TRACK ARMING GROUP
[A]–[D] buttons
④ [ALL CLEAR] button
⑤ [MASTER] button

SCENE MEMORY



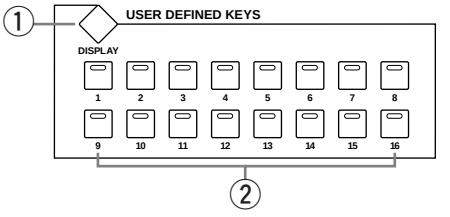
① SCENE MEMORY [DISPLAY] button
② Scene memory display
③ Edit indicator
④ [STORE] button
⑤ Scene Up/Down buttons
⑥ [RECALL] button

AUTOMIX



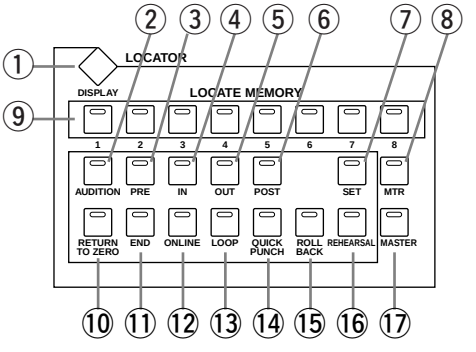
① **AUTOMIX [DISPLAY] button**
② **[ENABLE] button**
③ **[REC] button**
④ **[ABORT/UNDO] button**
⑤ **[AUTO-REC] button**
⑥ **[RETURN] button**
⑦ **[RELATIVE] button**
⑧ **[TOUCH SENSE] button**
⑨ **[FADER], [ON], [PAN], [SURROUND], [AUX], [AUX ON] & [EQ] buttons**

USER DEFINED KEYS



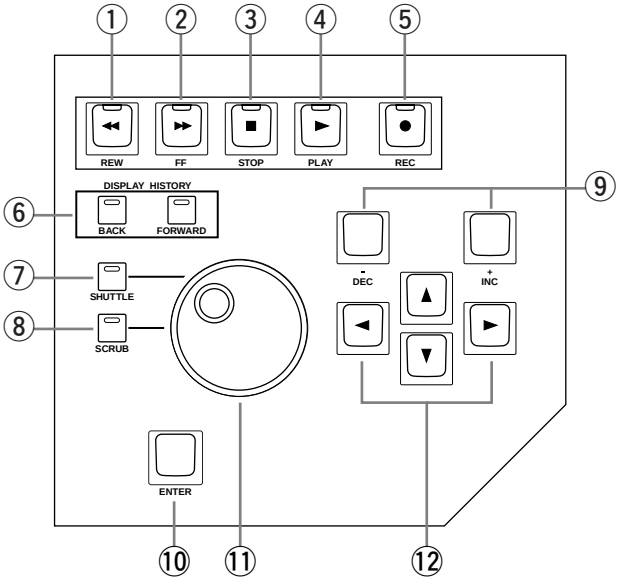
① **USER DEFINED KEYS [DISPLAY] button**
② **USER DEFINED KEYS [1]-[16] buttons**

LOCATOR



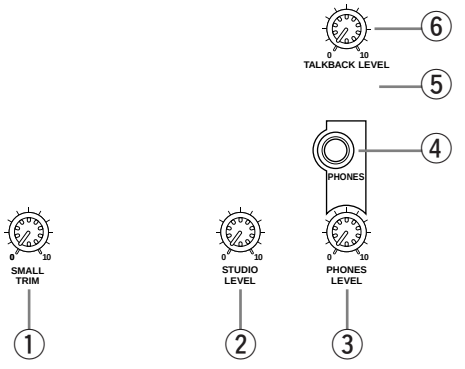
① **LOCATOR [DISPLAY] button**
② **[AUDITION] button**
③ **[PRE] button**
④ **[IN] button**
⑤ **[OUT] button**
⑥ **[POST] button**
⑦ **[SET] button**
⑧ **[MTR] button**
⑨ **LOCATE MEMORY [1]–[8] buttons**
⑩ **[RETURN TO ZERO] button**
⑪ **[END] button**
⑫ **[ONLINE] button**
⑬ **[LOOP] button**
⑭ **[QUICK PUNCH] button**
⑮ **[ROLL BACK] button**
⑯ **[REHEARSAL] button**
⑰ **[MASTER] button**

Data Entry & Transport



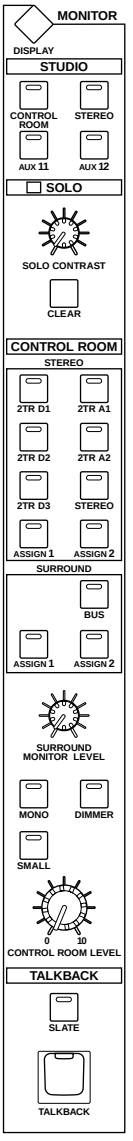
① **[REW] button**
② **[FF] button**
③ **[STOP] button**
④ **[PLAY] button**
⑤ **[REC] button**
⑥ **DISPLAY HISTORY [BACK]/ [FORWARD] buttons**
⑦ **[SHUTTLE] button**
⑧ **[SCRUB] button**
⑨ **[–DEC] & [+INC] buttons**
⑩ **[ENTER] button**
⑪ **Parameter wheel**
⑫ **Cursor buttons**

Monitor, Phones & Talkback Section

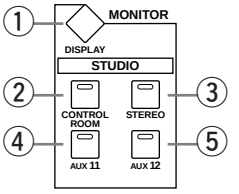


① **[SMALL TRIM] control**
② **[STUDIO LEVEL] control**
③ **[PHONES LEVEL] control**
④ **[PHONES] jack**
⑤ **Talkback mic**
⑥ **[TALKBACK LEVEL] control**

MONITOR Section

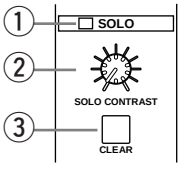


STUDIO



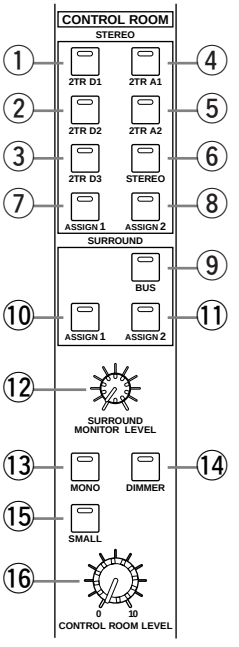
① MONITOR [DISPLAY] button
② [CONTROL ROOM] button
③ [STEREO] button
④ [AUX 11] button
⑤ [AUX 12] button

SOLO



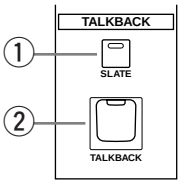
① [SOLO] indicator
② [SOLO CONTRAST] control
③ [CLEAR] button

CONTROL ROOM



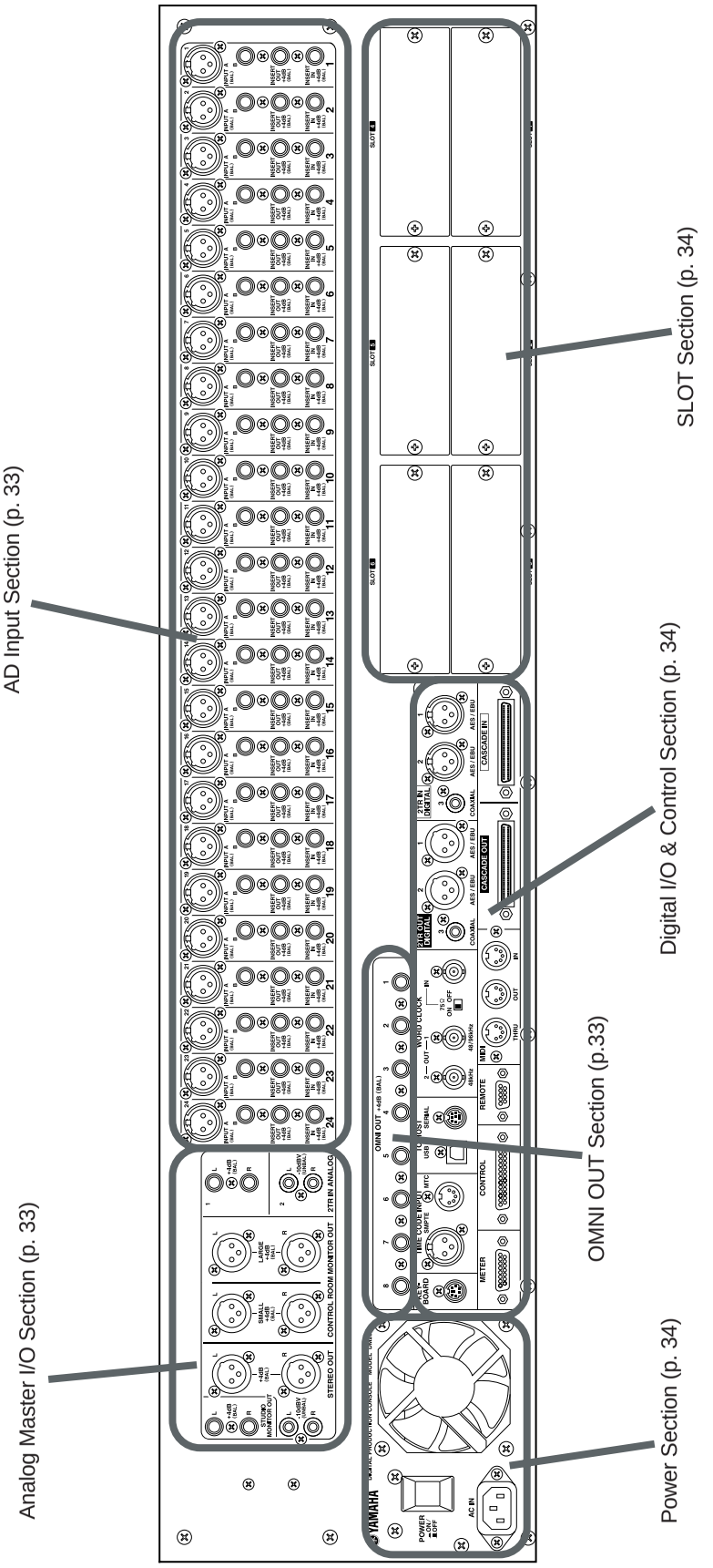
① STEREO [2TR D1] button
② STEREO [2TR D2] button
③ STEREO [2TR D3] button
④ STEREO [2TR A1] button
⑤ STEREO [2TR A2] button
⑥ [STEREO] button
⑦ STEREO [ASSIGN 1] button
⑧ STEREO [ASSIGN 2] button
⑨ SURROUND [BUS] button
⑩ SURROUND [ASSIGN 1] button
⑪ SURROUND [ASSIGN 2] button
⑫ [SURROUND MONITOR LEVEL] control
⑬ [MONO] button
⑭ [DIMMER] button
⑮ [SMALL] button
⑯ [CONTROL ROOM LEVEL] control

TALKBACK

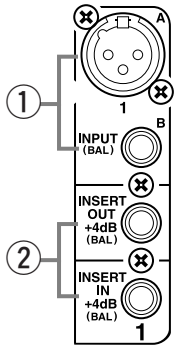


① [SLATE] button
② [TALKBACK] button

• Rear Panel

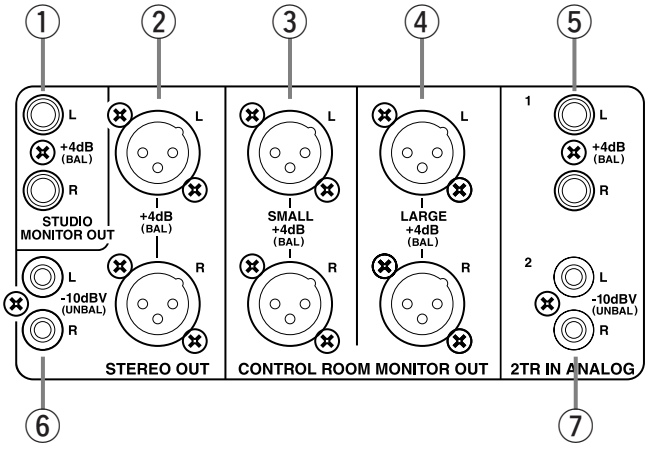

AD Input Section (p. 33)
Analog Master I/O Section (p. 33)
OMNI OUT Section (p.33)
Digital I/O & Control Section (p. 34)
SLOT Section (p. 34)
Power Section (p. 34)

AD Input Section



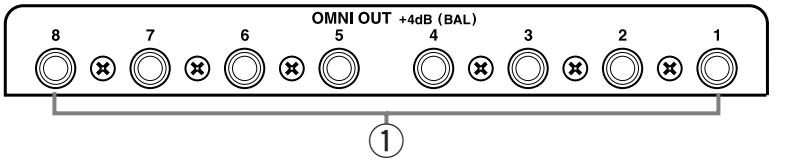
① **[INPUT A & B (BAL)] connectors**
② **[INSERT IN & OUT +4dB (BAL)] connectors**

Analog Master I/O Section



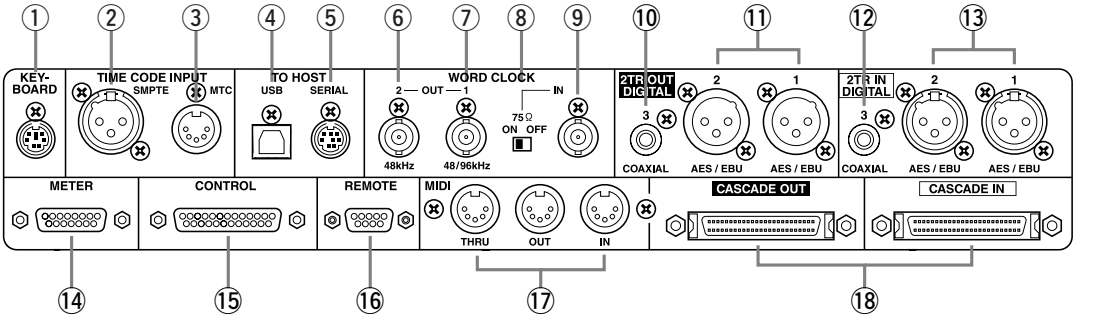
① **[STUDIO MONITOR OUT +4 dB (BAL)] jacks**
② **[STEREO OUT +4 dB (BAL)] connectors**
③ **[SMALL CONTROL ROOM MONITOR OUT +4 dB (BAL)] connectors**
④ **[LARGE CONTROL ROOM MONITOR OUT +4 dB (BAL)] connectors**
⑤ **[2TR IN ANALOG 1 +4 dB (BAL)] jacks**
⑥ **[STEREO OUT –10 dBV (UNBAL)] connectors**
⑦ **[2TR IN ANALOG 2 –10 dBV (UNBAL)] connectors**

OMNI OUT Section



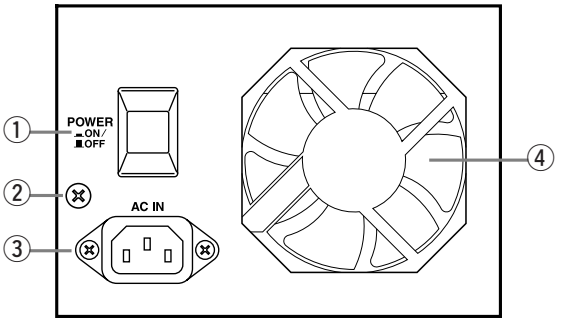
① **[OMNI OUT +4dB (BAL)] jacks**

Digital I/O & Control Section



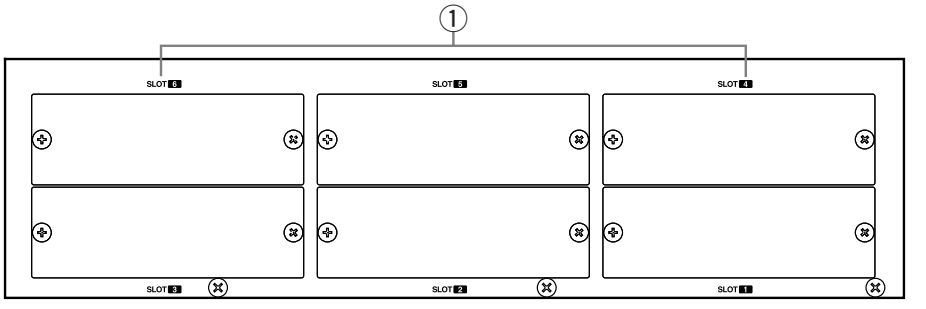
① **[KEYBOARD] connector**
② **[SMPTE TIME CODE INPUT] connector**
③ **[MTC TIME CODE INPUT] connector**
④ **[USB TO HOST] port**
⑤ **[SERIAL TO HOST] port**
⑥ **[WORD CLOCK OUT 2] connector**
⑦ **[WORD CLOCK OUT 1] connector**
⑧ **[WORD CLOCK 75Ω ON/OFF] termination switch**
⑨ **[WORD CLOCK IN] connector**
⑩ **[2TR OUT DIGITAL COAXIAL 3] connector**
⑪ **[2TR OUT DIGITAL AES/EBU 1 & 2] connectors**
⑫ **[2TR IN DIGITAL COAXIAL 3] connector**
⑬ **[2TR IN DIGITAL AES/EBU 1 & 2] connectors**
⑭ **[METER] port**
⑮ **[CONTROL] port**
⑯ **[REMOTE] port**
⑰ **[MIDI IN, OUT & THRU] ports**
⑱ **[CASCADE IN & OUT] ports**

Power Section



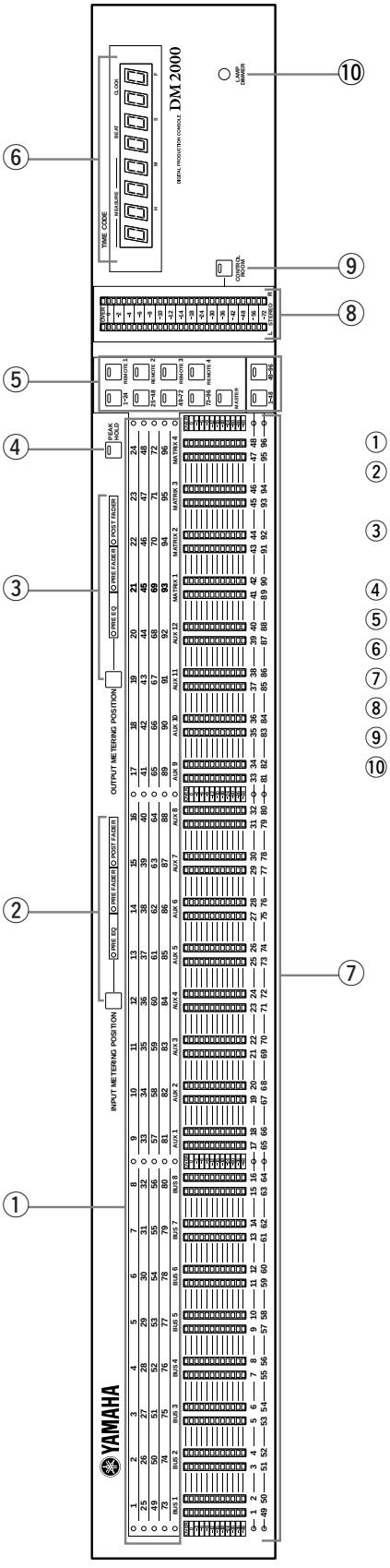
① **[POWER ON/OFF] switch**
② **Grounding screw**
③ **[AC IN] connector**
④ **Cooling fan**

SLOT Section



① **[SLOT 1]–[SLOT 6]**

- **MB2000**
- **Controls**

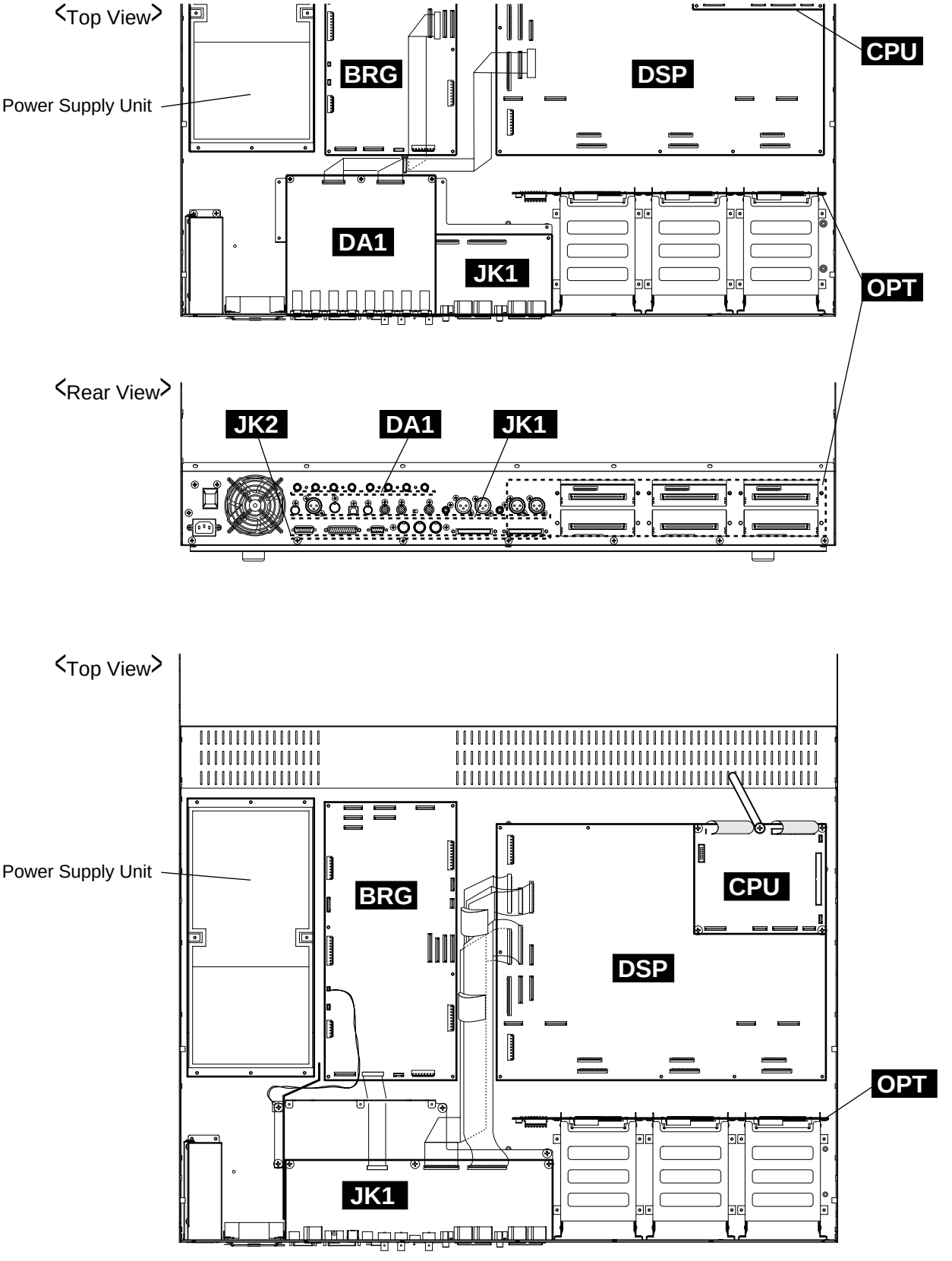


① **Channel indicators**
② **[INPUT METERING POSITION] button & indicators**
③ **[OUTPUT METERING POSITION] button & indicators**
④ **[PEAK HOLD] button**
⑤ **[LAYER] buttons**
⑥ **[TIMECODE] counter**
⑦ **Meters**
⑧ **[STEREO] meters**
⑨ **[CONTROL ROOM] button**
⑩ **[LAMP DIMMER] knob**

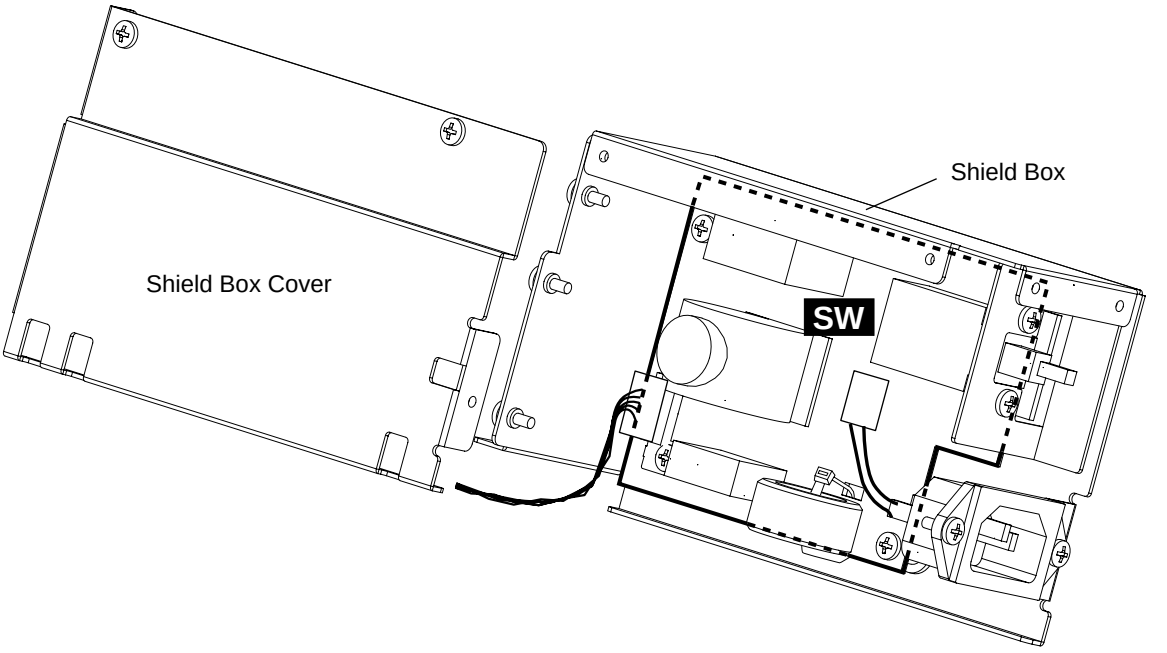
■ CIRCUIT BOARD LAYOUT

- **DM2000**

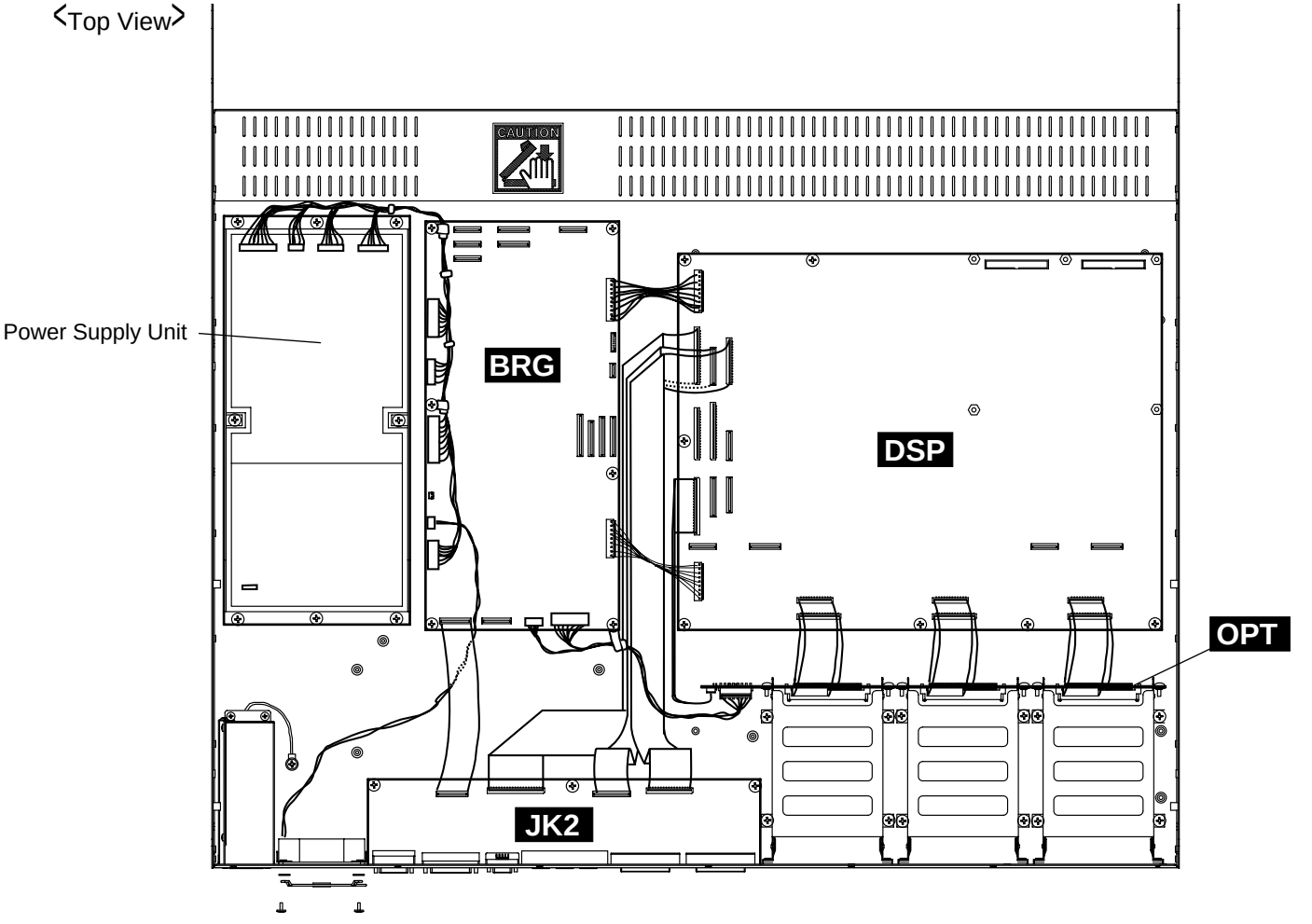
- **Bottom Assembly**



Inside the shield box

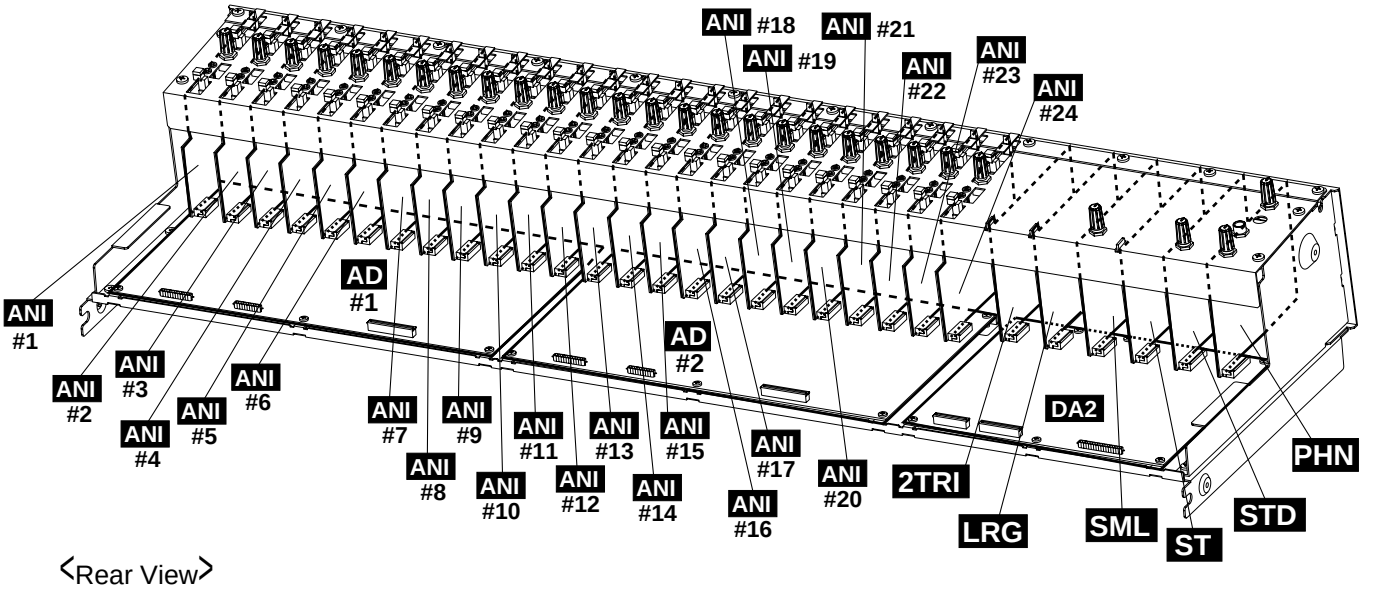


<Top View>

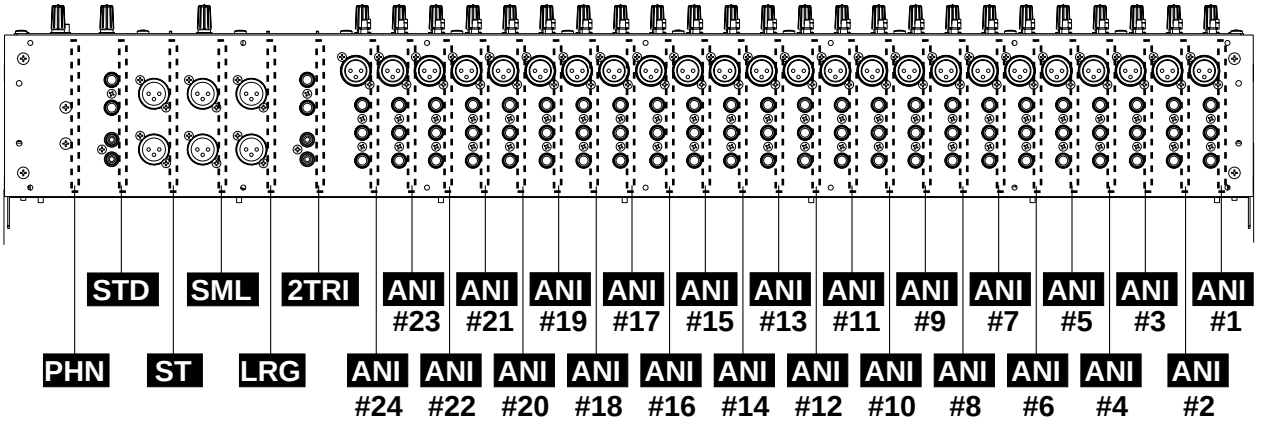


- **Rear Assembly U**

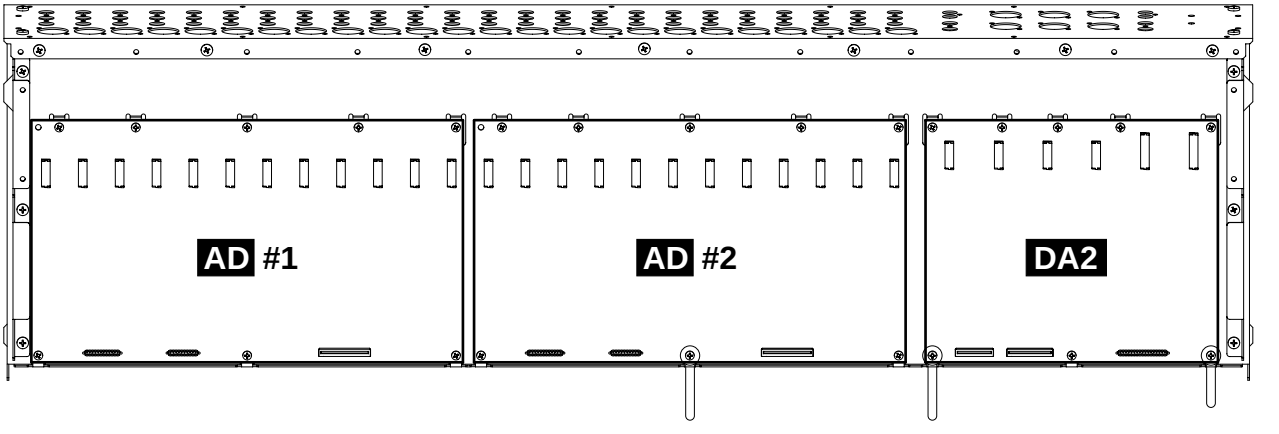
<Top View>



<Rear View>

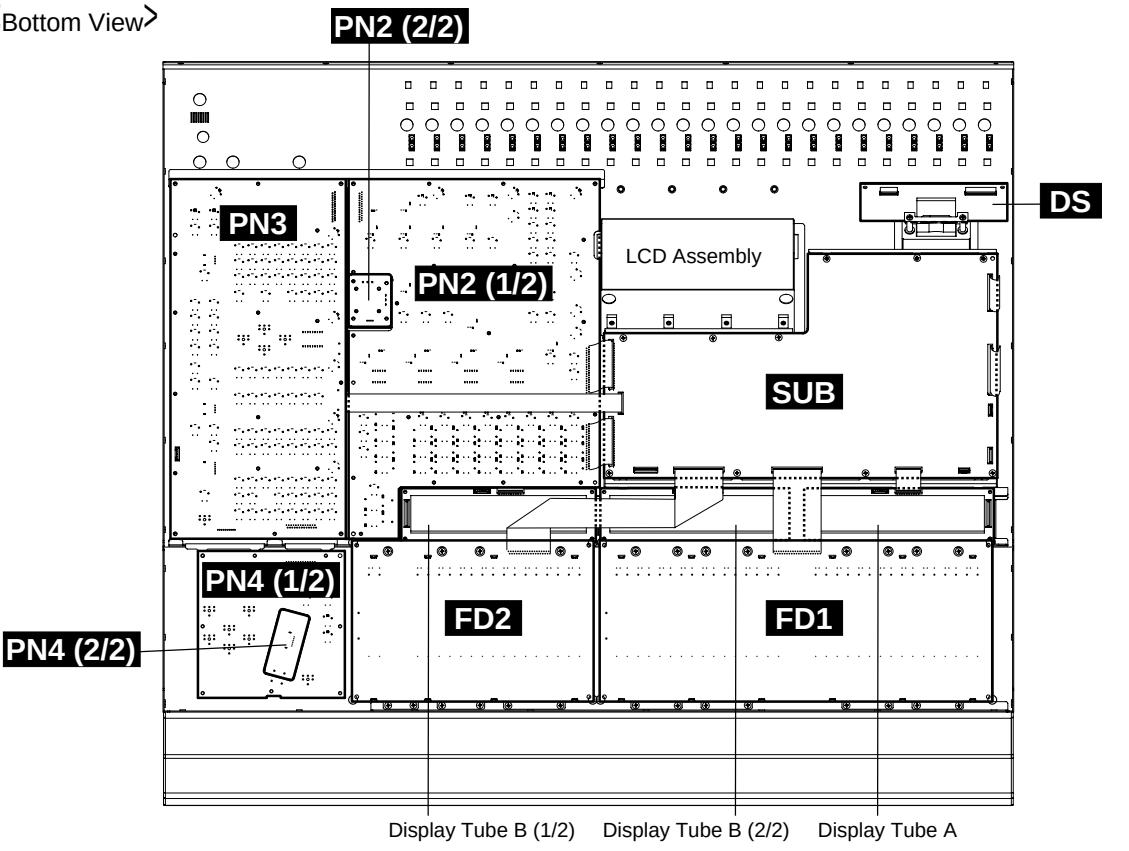


<Top View>

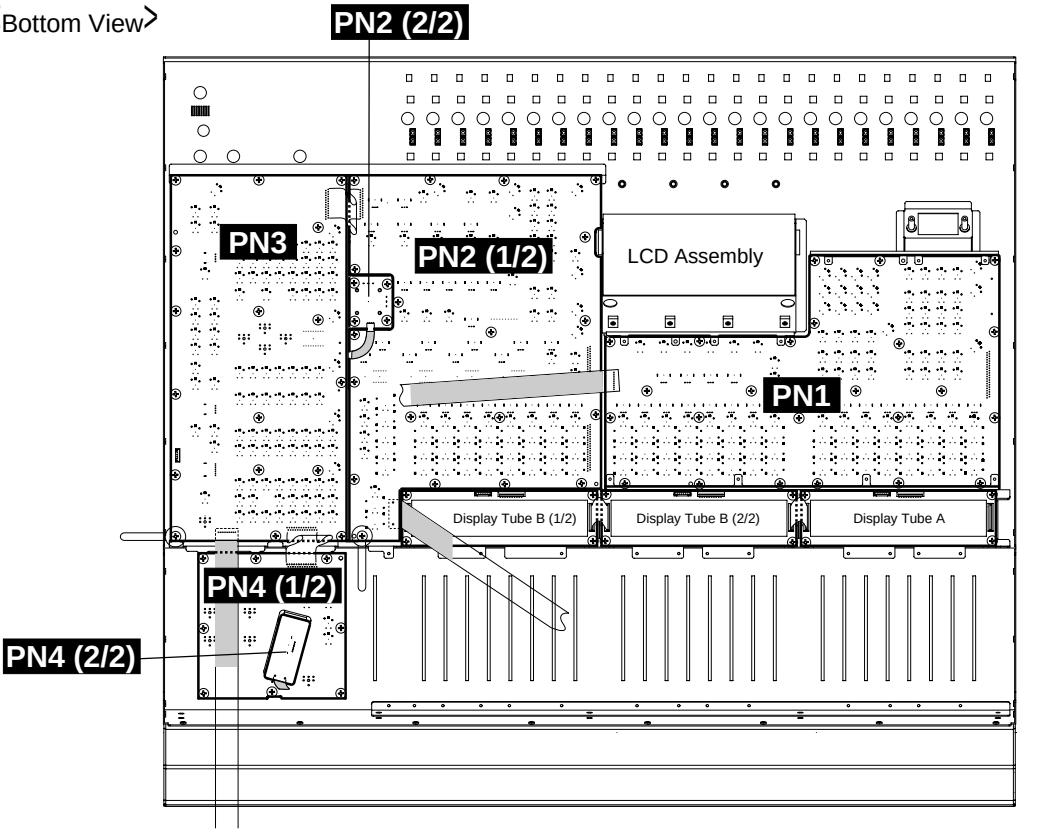


• Control Panel Assembly

<Bottom View>

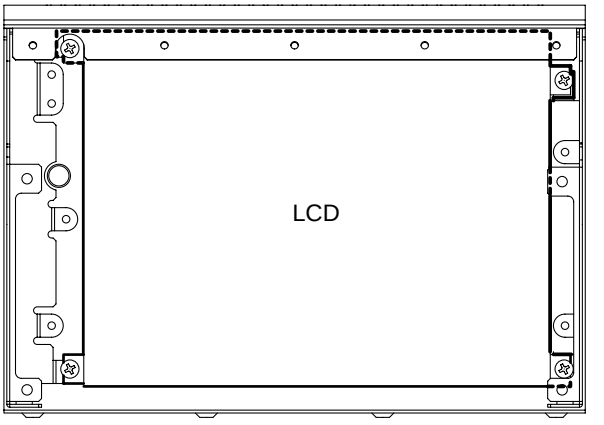


<Bottom View>

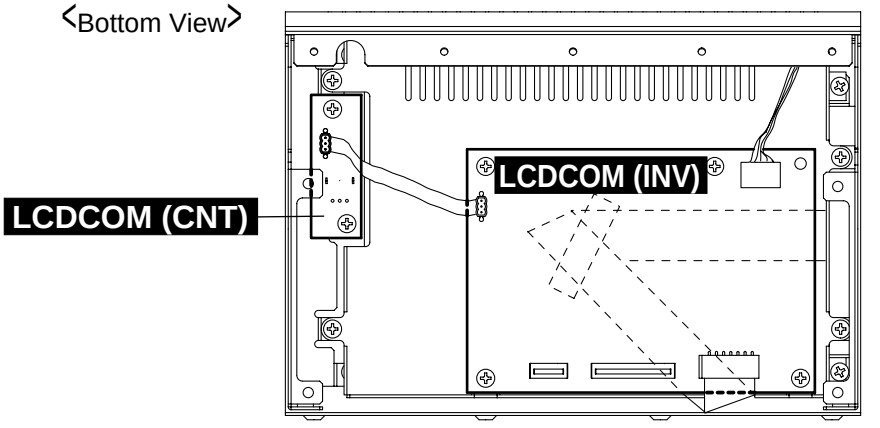


• LCD Assembly

<Bottom View>

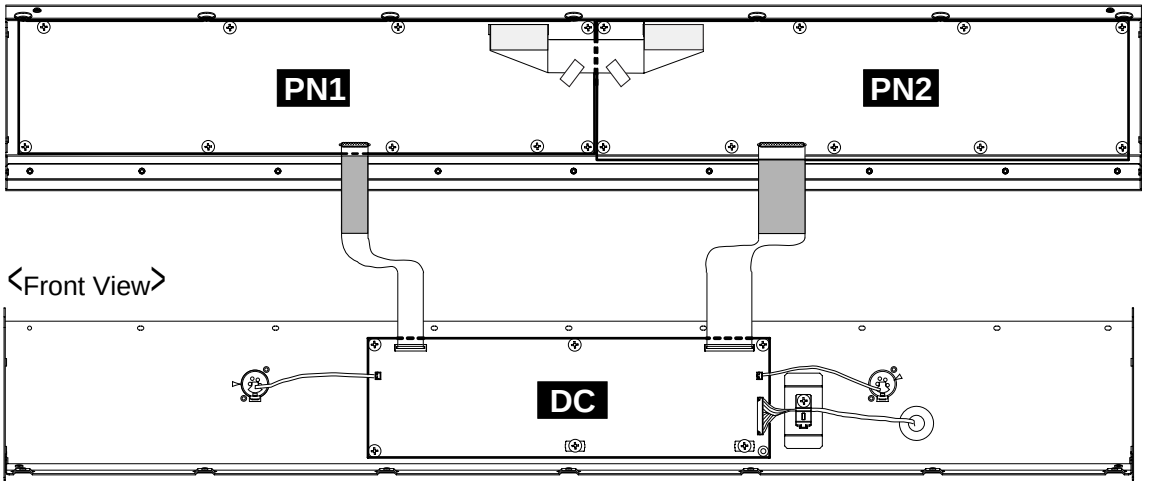


<Bottom View>



• MB2000

<Rear View>



<Front View>

■ DISASSEMBLY PROCEDURE

Note: Take care not to trap your fingers.

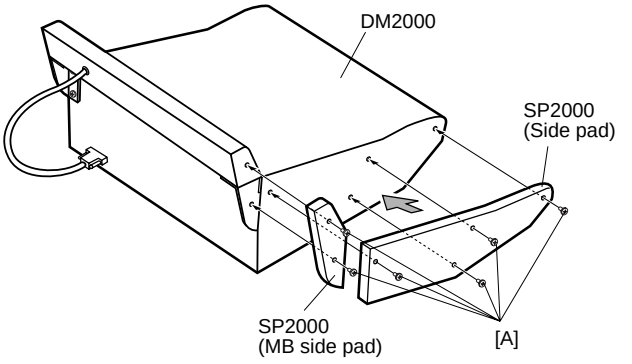
✻ After replacing the circuit board or fader of FD1 or FD2, please initialize them. (See page 187.)

Disassembling the DM2000

1. Removing the SP2000

(Time required: About 5 minutes)

1-1. If the SP2000 is attached to the DM2000, remove the twelve (12) screws marked [A], and then both sides must be removed. (Fig.1)



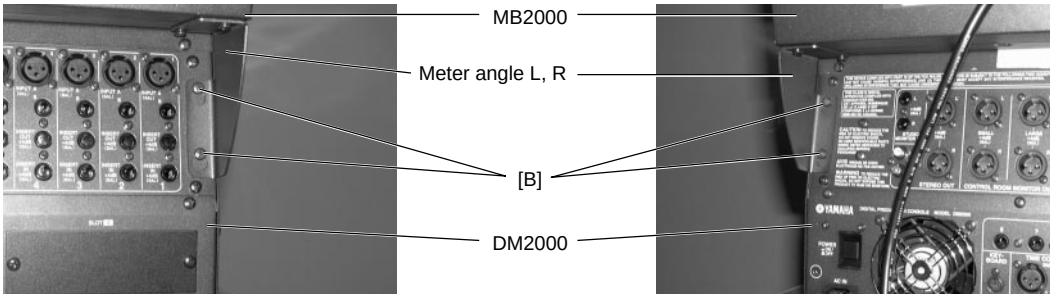
[A]: Bind Head Screw 4.0X16 MFZN2BL (EG340110)

Fig.1

2. Removing the MB2000

(Time required: About 5 minutes)

2-1. Loosen the four (4) screws marked [B]. The MB2000 can then be removed from the DM2000. (Photo.1,2)



[B]: Bind Head Screw A4.0X12 MFZN2BL (VP156900)

Photo.1 Photo.2

3. Control Panel Assembly

(Time required: About 10 minutes)

3-1. Remove the SP2000. (See procedure 1.)

3-2. Remove the MB2000. (See procedure 2.)

3-3. Remove the twenty (20) screws marked [60A], the eight (8) screws marked [60B] and the seven (7) screws marked [60C]. (Fig.2)

3-4. Hold the LCD assembly part, and lift the control panel assembly. And then, fasten them by the two (2) front stays. (Photo.3)

✻ When assembling the control panel assembly with the side panel, put the screws of the round screw hole of the side panel in place first, then the screws of the elliptic screw hole.

4. Rear Assembly U

(Time required: About 15 minutes)

4-1. Remove the SP2000. (See procedure 1.)
4-2. Remove the MB2000. (See procedure 2.)
4-3. Fasten the control panel assembly. (See procedure 3.)
4-4. Remove the two (2) screws marked [60D] and the seven (7) screws marked [60E]. (Fig.2)
4-5. Lift the rear assembly U from the rear side and fasten them by the two (2) rear stays. (There are two ways of using the rear stays shown in the photo 4 or 5.)

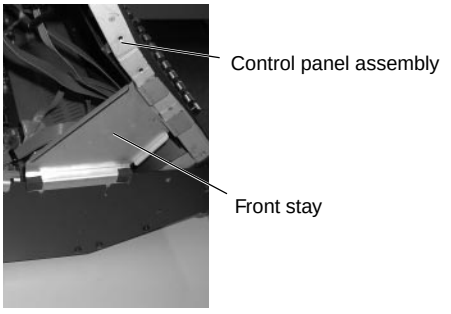


Photo.3

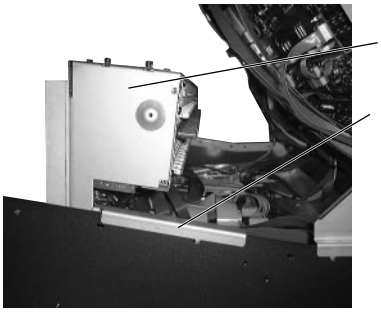


Photo.4

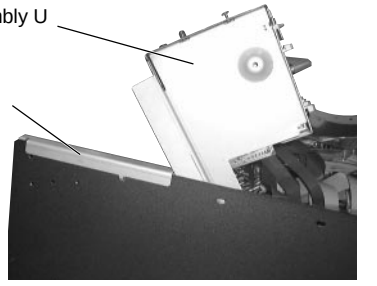
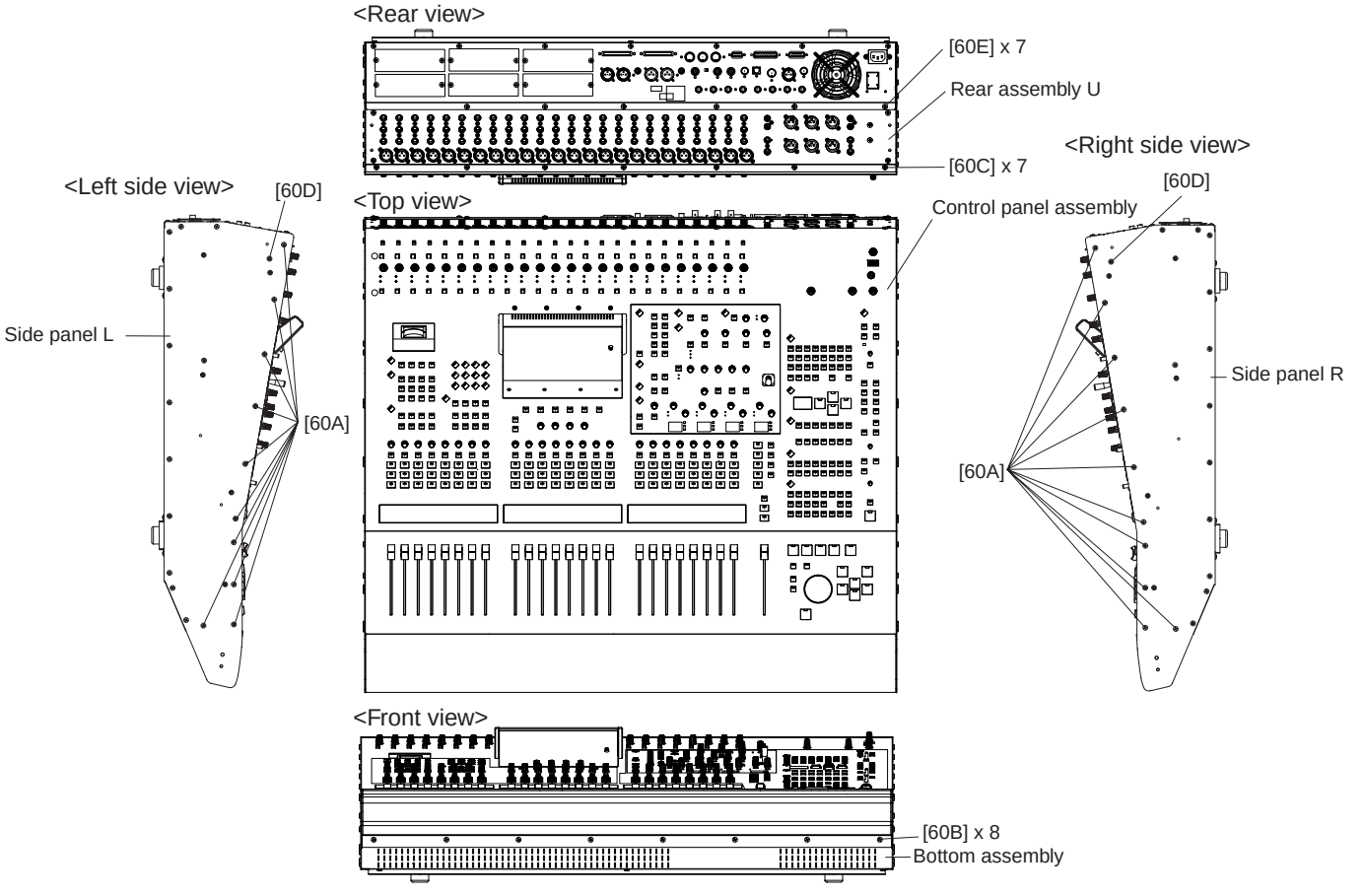


Photo.5



[60]: Bind Head Tapping Screw-B A4.0X8 MFZN2BL (VC688800)

Fig.2

Bottom Assembly

5. CPU Circuit Board

(Time required: About 15 minutes)

5-1. Remove the SP2000. (See procedure 1.)
5-2. Remove the MB2000. (See procedure 2.)
5-3. Fasten the control panel assembly. (See procedure 3.)
5-4. Remove the five (5) screws marked [335]. The CPU circuit board can then be removed. (Fig.4)

6. Replacing the Lithium Battery

(Time required: About 15 minutes)

6-1. Remove the SP2000. (See procedure 1.)
6-2. Remove the MB2000. (See procedure 2.)
6-3. Fasten the control panel assembly. (See procedure 3.)
6-4. You can replace the lithium battery from the CPU circuit board. (Fig.4)

✻ The lithium battery is not part of the CPU circuit board. When you replace the CPU circuit board, you should remove the lithium battery from the board, and install in the holder on the new circuit board.

7. DSP Circuit Board

(Time required: About 25 minutes)

7-1. Remove the SP2000. (See procedure 1.)
7-2. Remove the MB2000. (See procedure 2.)
7-3. Fasten the control panel assembly. (See procedure 3.)
7-4. Fasten the rear assembly U. (See procedure 4.)
7-5. Remove the CPU circuit board. (See procedure 5.)
7-6. Remove the seven (7) screws marked [310] and the five (5) hexagonal spacers. The DSP circuit board can then be removed. (Fig.3)

8. BRG Circuit Board

(Time required: About 20 minutes)

8-1. Remove the SP2000. (See procedure 1.)
8-2. Remove the MB2000. (See procedure 2.)
8-3. Fasten the control panel assembly. (See procedure 3.)
8-4. Fasten the rear assembly U. (See procedure 4.)
8-5. Remove the six (6) screws marked [290A]. The BRG circuit board can then be removed. (Fig.3)

9. Power Supply Unit

(Time required: About 20 minutes)

9-1. Remove the SP2000. (See procedure 1.)
9-2. Remove the MB2000. (See procedure 2.)
9-3. Fasten the control panel assembly. (See procedure 3.)
9-4. Fasten the rear assembly U. (See procedure 4.)
9-5. Remove the eight (8) screws marked [255]. The power supply unit can then be removed. (Fig.3)

✻ Noise will be generated if a bundle of cables for VOLUME is routed over the power supply unit, so make sure it is routed as shown in Photo 6. Never route as shown in Photo 7. (Photo.6, 7)

<OK>



Photo.6

<NG>

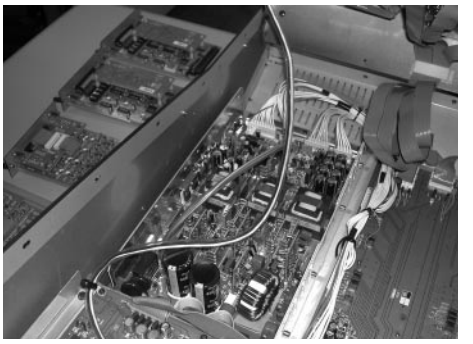


Photo.7

10. OPT Circuit Board

(Time required: About 20 minutes)

10-1. Remove the SP2000. (See procedure 1.)
10-2. Remove the MB2000. (See procedure 2.)
10-3. Fasten the control panel assembly. (See procedure 3.)
10-4. Fasten the rear assembly U. (See procedure 4.)
10-5. Remove the six (6) screws marked [270A]. The OPT circuit board can then be removed. (Fig.3)

11. DA1 and JK1 Circuit Boards

(Time required: About 25 minutes each)

11-1. Remove the SP2000. (See procedure 1.)
11-2. Remove the MB2000. (See procedure 2.)
11-3. Fasten the control panel assembly. (See procedure 3.)
11-4. Fasten the rear assembly U. (See procedure 4.)
11-5. Remove the six (6) screws marked [235], the thirteen (13) screws marked [370], the six (6) screws marked [380] and the four (4) screws marked [400]. The P.C.B. holder and the duct can then be removed with the DA1 and JK1 circuit boards. (Fig.4, 5)
11-6. **DA1 Circuit Board:**
Remove the three (3) screws marked [240]. The DA1 circuit board can then be removed from P.C.B. holder. (Fig.5)
11-7. **JK1 Circuit Board:**
Remove the DA1 circuit board. (See procedure 11-6.)
Remove the three (3) screws marked [365]. The JK1 circuit board can then be removed from P.C.B. holder. (Fig.4)

12. JK2 Circuit Board

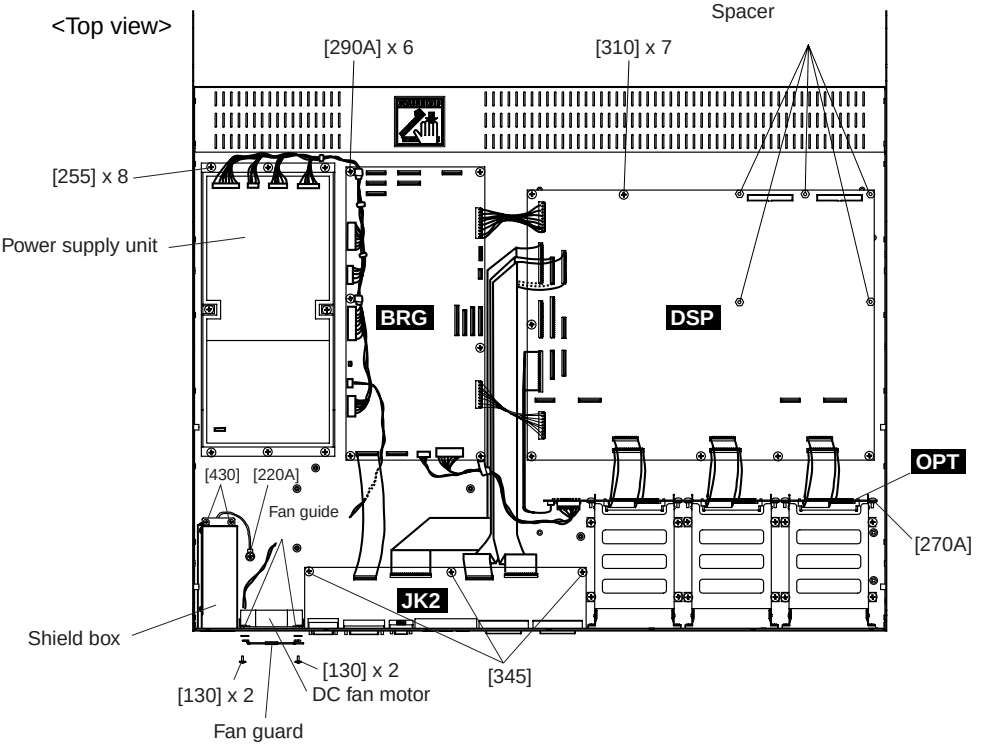
(Time required: About 25 minutes)

12-1. Remove the SP2000. (See procedure 1.)
12-2. Remove the MB2000. (See procedure 2.)
12-3. Fasten the control panel assembly. (See procedure 3.)
12-4. Fasten the rear assembly U. (See procedure 4.)
12-5. Remove the P.C.B. holder and the duct with the DA1 and JK1 circuit boards. (See procedure 11-5.)
12-6. Remove the three (3) screws marked [345], the two (2) screws marked [350A], the two (2) screws marked [355], the two (2) screws marked [C], the two (2) screws marked [D], the two (2) screws marked [E] and the two (2) screws marked [F]. The JK2 circuit board can then be removed. (Fig.3, 5)

13. DC Fan Motor

(Time required: About 20 minutes)

13-1. Remove the SP2000. (See procedure 1.)
13-2. Remove the MB2000. (See procedure 2.)
13-3. Fasten the control panel assembly. (See procedure 3.)
13-4. Fasten the rear assembly U. (See procedure 4.)
13-5. Remove the four (4) screws marked [130]. The DC fan motor, the two (2) fan guides, the fan guard and the two (2) toothed lock washers can then be removed. (Fig.3)



[130]:	Pan Head Screw	SP 4.0X20 MFZN2BL (VB671600)
[220A]:	Bind Head Tapping Screw-S	4.0X8 MFZN2BL (VI693100)
[255]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[270A]:	Bind Head Screw	4.0X8 SP MFZN2Y (VZ538000)
[290A]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[310]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[345]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[430]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)

Fig.3

14. AC Inlet Assembly and SW Circuit Board

(Time required: About 25 minutes each)

14-1. Remove the SP2000. (See procedure 1.)
14-2. Remove the MB2000. (See procedure 2.)
14-3. Fasten the control panel assembly. (See procedure 3.)
14-4. Fasten the rear assembly U. (See procedure 4.)
14-5. Remove the screw marked [220A], the two (2) screws marked [225] and the two (2) screws marked [430]. The shield box can then be removed with the AC inlet assembly and the SW circuit board. (Fig.3, 5, 6)
14-6. Remove the six (6) screws marked [205A]. The shield box cover can then be removed from the shield box. (Fig.6)

14-7. **AC Inlet Assembly:**
Remove the screw marked [205B] and the cord holder. The AC inlet assembly can then be removed from the shield box. (Fig.6)

14-8. **SW Circuit Board:**
Remove the power switch knob, the three (3) screws marked [205C] and the two (2) screws marked [210A]. The SW circuit board can then be removed from the shield box. (Fig.5, 6)

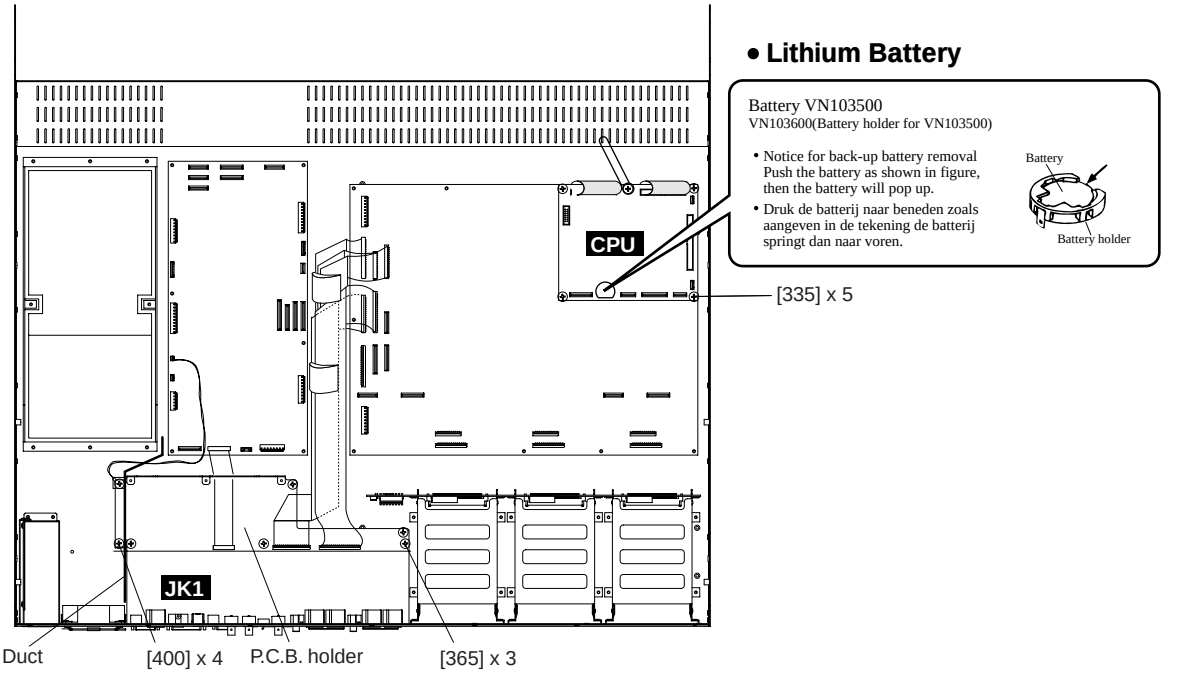
Rear Assembly U

15. PC Support

(Time required: About 15 minutes)

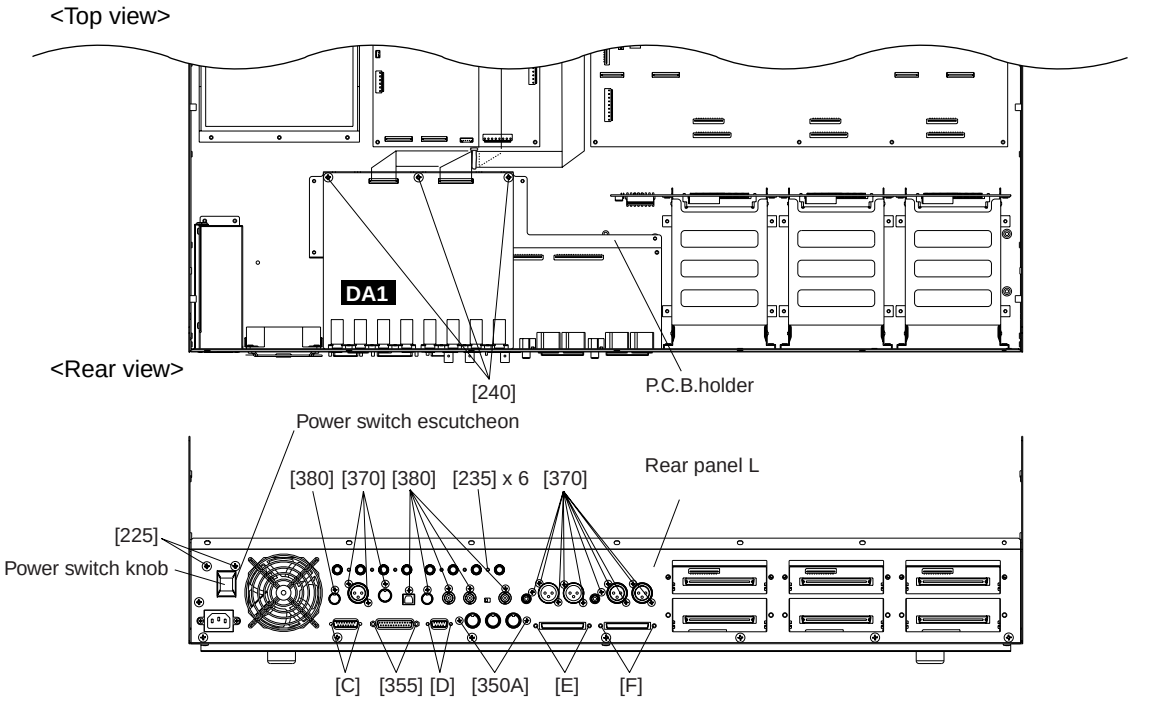
15-1. Remove the SP2000. (See procedure 1.)
15-2. Remove the MB2000. (See procedure 2.)
15-3. Fasten the control panel assembly. (See procedure 3.)
15-4. Remove the sixteen (16) screws marked [190], the twenty-four (24) nuts marked [200A], the five (5) nuts marked [210B] and the twenty-eight (28) knobs marked [220B]. The PC support can then be removed from the rear assembly U. (Fig.7)

<Top view>



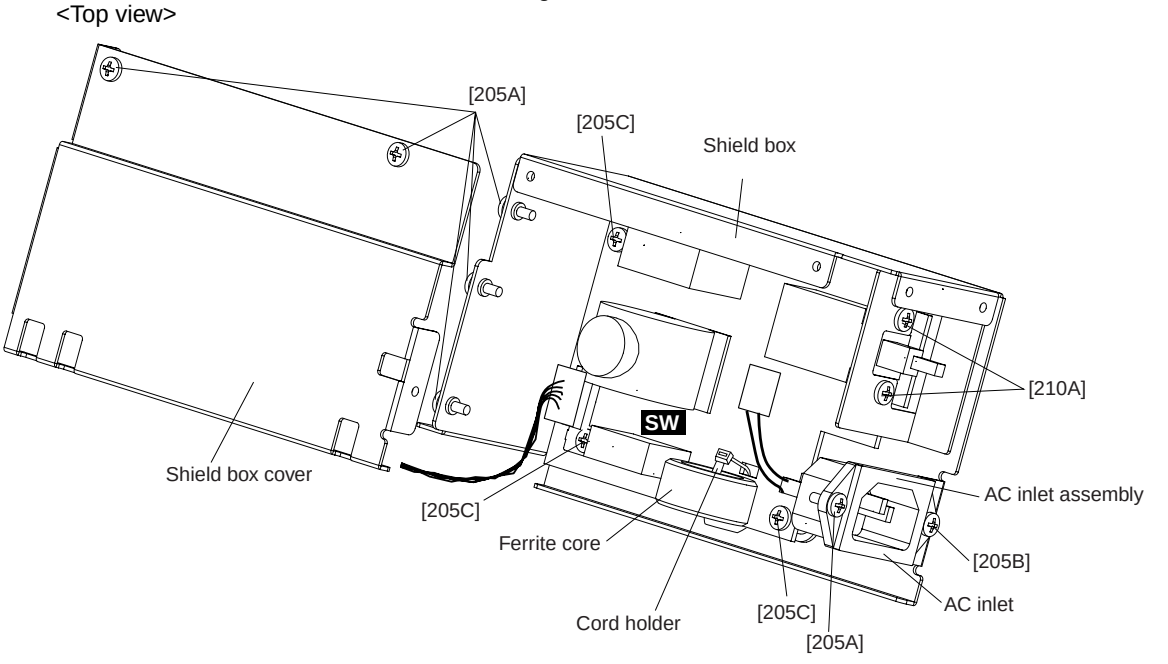
[335]: Bind Head Screw 3.0X8 MFZN2BL (VB659000)
[365]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)
[400]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

Fig.4



[225]:	Bonding Tapping Screw-B	3.0X8 MFZN2BL (VN413300)
[235]:	Bonding Tapping Screw-B	3.0X8 MFZN2BL (VN413300)
[240]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[350A]:	Bonding Tapping Screw-B	3.0X8 MFZN2BL (VN413300)
[355]:	Hex. Locking Screw	JFS-2.6S-BIW (VS604900)
[370]:	Bonding Tapping Screw-B	3.0X8 MFZN2BL (VN413300)
[380]:	Bonding Screw	3.0X8 MFZN2BL (VP157800)

Fig.5



[205]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[210A]:	Bind Head Screw	3.0X8 MFZN2BL (VB659000)

Fig.6

16. ANI Circuit Board

(Time required: About 20 minutes)

16-1. Remove the SP2000. (See procedure 1.)
16-2. Remove the MB2000. (See procedure 2.)
16-3. Fasten the control panel assembly. (See procedure 3.)
16-4. Remove the PC support. (See procedure 15.)
16-5. Remove the four (4) screws marked [160A] and disconnect the connector from the AD circuit board. The ANI circuit board can then be removed. (Fig.7)
✻ There is a total of twenty-four (24) ANI circuit boards, and they can all be removed in this way.

17. 2TRI, LRG, SML, ST, STD, PHN Circuit Boards

(Time required: About 20 minutes each)

17-1. Remove the SP2000. (See procedure 1.)
17-2. Remove the MB2000. (See procedure 2.)
17-3. Fasten the control panel assembly. (See procedure 3.)
17-4. Remove the PC support. (See procedure 15.)
17-5. **2TRI Circuit Board:**
Remove the two (2) screws marked [160B] and disconnect the connector from the DA2 circuit board. The 2TRI circuit board can then be removed. (Fig.7)
17-6. **LRG Circuit Board:**
Remove the four (4) screws marked [160C] and disconnect the connector from the DA2 circuit board. The LRG circuit board can then be removed. (Fig.7)
17-7. **SML Circuit Board:**
Remove the four (4) screws marked [160D] and disconnect the connector from the DA2 circuit board. The SML circuit board can then be removed. (Fig.7)
17-8. **ST Circuit Board:**
Remove the four (4) screws marked [160E] and disconnect the connector from the DA2 circuit board. The ST circuit board can then be removed. (Fig.7)
17-9. **STD Circuit Board:**
Remove the two (2) screws marked [160F] and disconnect the connector from the DA2 circuit board. The STD circuit board can then be removed. (Fig.7)
17-10. **PHN Circuit Board:**
Remove the two (2) screws marked [170] and disconnect the connector from the DA2 circuit board. The PHN circuit board can then be removed. (Fig.7)

18. AD Circuit Board

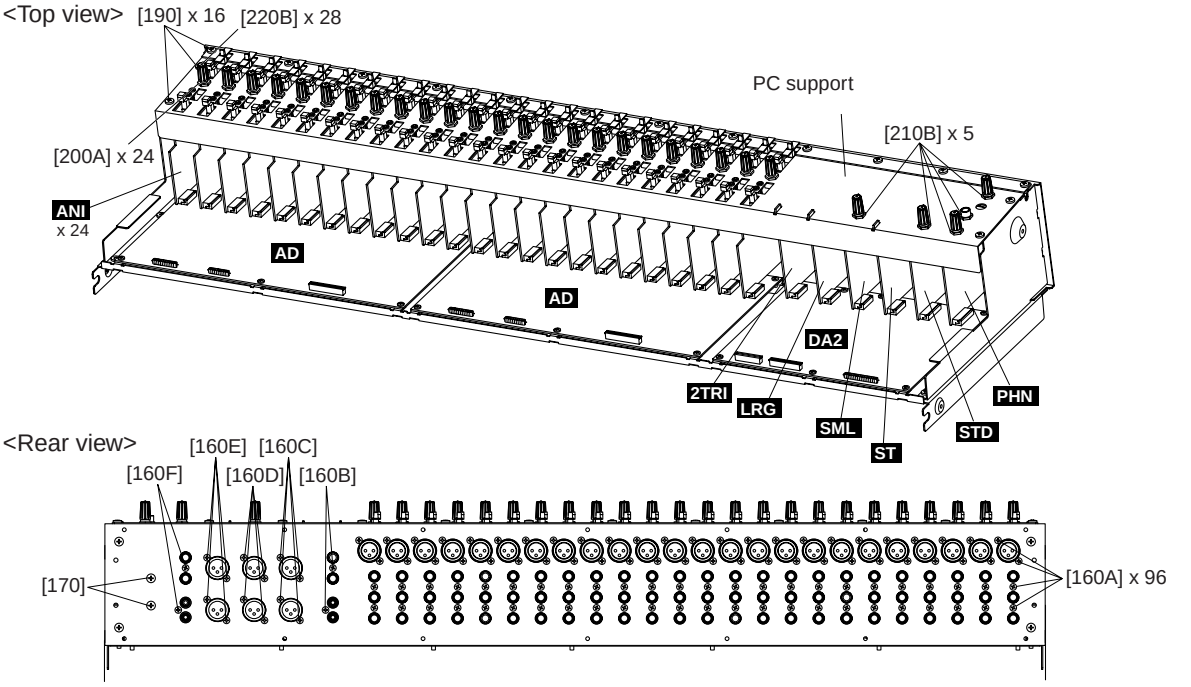
(Time required: About 25 minutes)

18-1. Remove the SP2000. (See procedure 1.)
18-2. Remove the MB2000. (See procedure 2.)
18-3. Fasten the control panel assembly. (See procedure 3.)
18-4. Remove the PC support. (See procedure 15.)
18-5. Remove the twelve (12) ANI circuit boards. (See procedure 16.)
18-6. Remove the eight (8) screws marked [80A]. The AD circuit board can then be removed. (Fig.8)
✻ There is a total of two (2) AD circuit boards, and they can all be removed in this way.

19. DA2 Circuit Board

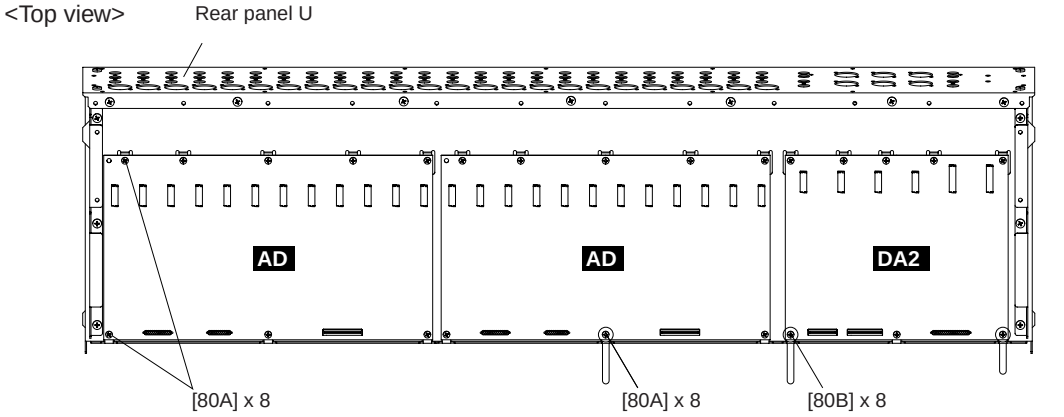
(Time required: About 25 minutes)

19-1. Remove the SP2000. (See procedure 1.)
19-2. Remove the MB2000. (See procedure 2.)
19-3. Fasten the control panel assembly. (See procedure 3.)
19-4. Remove the PC support. (See procedure 15.)
19-5. Remove the 2TRI, LRG, SML, ST, STD and PHN circuit boards. (See procedure 17.)
19-6. Remove the eight (8) screws marked [80B]. The DA2 circuit board can then be removed. (Fig.8)



[160]: Bonding Tapping Screw-B 3.0X8 MFZN2BL (VN413300)
[170]: Bind Head Screw A4.0X8 MFZN2BL (VP156800)
[190]: Bind Head Tapping Screw-B A4.0X8 MFZN2BL (VC688800)
[200A]: Hexagonal Nut 7.0 11X2 MFZN2BL (VR991600)
[210B]: Hexagonal Nut 9.0 11X2 MFZN2BL (VJ388000)

Fig.7



[80]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

Fig.8

Control Panel Assembly

✻ When removing the circuit board, if it is hard to handle while the control panel assembly is fixed slantwise at the front stay, open it widely at 180° for the work.

20. SUB Circuit Board

(Time required: About 15 minutes)

20-1. Remove the SP2000. (See procedure 1.)
20-2. Remove the MB2000. (See procedure 2.)
20-3. Fasten the control panel assembly. (See procedure 3.)
20-4. Remove the ten (10) screws marked [200B]. The SUB circuit board can then be removed. (Fig.10)

21. PN1 Circuit Board

(Time required: About 20 minutes)

21-1. Remove the SP2000. (See procedure 1.)
21-2. Remove the MB2000. (See procedure 2.)
21-3. Remove the four (4) encoder knobs marked [330A] and the sixteen (16) encoder knobs marked [338A] from the control panel side. (Fig.9)
21-4. Fasten the control panel assembly. (See procedure 3.)
21-5. Remove the SUB circuit board. (See procedure 20.)
21-6. Remove the twenty-four (24) screws marked [150A]. The PN1 circuit board can then be removed. (Fig.11)

22. PN2 (1/2) Circuit Board

(Time required: About 20 minutes)

22-1. Remove the SP2000. (See procedure 1.)
22-2. Remove the MB2000. (See procedure 2.)
22-3. Remove the four (4) encoder knobs marked [330B], the five (5) encoder knobs marked [332], the four (4) encoder knobs marked [334], the eight (8) encoder knobs marked [336] and the eight (8) encoder knobs marked [338B] from the control panel side. (Fig.9)
22-4. Fasten the control panel assembly. (See procedure 3.)
22-5. Remove the twenty-one (21) screws marked [150B]. The PN2 (1/2) circuit board can then be removed. (Fig.11)

23. PN2 (2/2) Circuit Board

(Time required: About 15 minutes)

23-1. Remove the SP2000. (See procedure 1.)
23-2. Remove the MB2000. (See procedure 2.)
23-3. Fasten the control panel assembly. (See procedure 3.)
23-4. Remove the four (4) screws marked [150C]. The PN2 (2/2) circuit board can then be removed. (Fig.11)

24. PN3 Circuit Board

(Time required: About 20 minutes)

24-1. Remove the SP2000. (See procedure 1.)
24-2. Remove the MB2000. (See procedure 2.)
24-3. Remove the knob marked [340] and the two (2) knobs marked [350B] from the control panel side. (Fig.9)
24-4. Fasten the control panel assembly. (See procedure 3.)
24-5. Remove the eighteen (18) screws marked [150D]. The PN3 circuit board can then be removed. (Fig.11)

25. PN4 Circuit Board

(Time required: About 15 minutes)

25-1. Remove the SP2000. (See procedure 1.)
25-2. Remove the MB2000. (See procedure 2.)
25-3. Remove the knob wheel and the hexagonal nut from the control panel side. (Fig.9, Photo.8)
25-4. Fasten the control panel assembly. (See procedure 3.)
25-5. Remove the eight (8) screws marked [150E]. The PN4 circuit board can then be removed. (Fig.11)

26. FD1 Circuit Board

(Time required: About 20 minutes)

26-1. Remove the SP2000. (See procedure 1.)
26-2. Remove the MB2000. (See procedure 2.)
26-3. Remove the sixteen (16) fader knobs marked [320A] from the control panel side. (Fig.9)
26-4. Fasten the control panel assembly. (See procedure 3.)
26-5. Remove the sixteen (16) screws marked [230A]. The FD1 circuit board can then be removed. (Fig.10)

27. FD2 Circuit Board

(Time required: About 20 minutes)

27-1. Remove the SP2000. (See procedure 1.)
27-2. Remove the MB2000. (See procedure 2.)
27-3. Remove the nine (9) fader knobs marked [320B] from the control panel side. (Fig.9)
27-4. Fasten the control panel assembly. (See procedure 3.)
27-5. Remove the ten (10) screws marked [230B]. The FD2 circuit board can then be removed. (Fig.10)

28. DS Circuit Board

(Time required: About 15 minutes)

28-1. Remove the SP2000. (See procedure 1.)
28-2. Remove the MB2000. (See procedure 2.)
28-3. Fasten the control panel assembly. (See procedure 3.)
28-4. Remove the two (2) screws marked [270B]. The DS circuit board can then be removed with the smart media escutcheon and the smart media angle bracket. (Fig.10)
28-5. Remove the two (2) screws marked [265]. The smart media escutcheon and the smart media angle bracket can then be removed from the DS circuit board. (Fig.10)

29. Display Tube A and B (1/2, 2/2)

(Time required: About 15 minutes each)

29-1. Remove the SP2000. (See procedure 1.)
29-2. Remove the MB2000. (See procedure 2.)
29-3. Fasten the control panel assembly. (See procedure 3.)
29-4. **Display Tube A:**
Remove the four (4) screws marked [180A]. The display tube A can then be removed. (Fig.11)
29-5. **Display Tube B (1/2):**
Remove the four (4) screws marked [180B]. The display tube B (1/2) can then be removed. (Fig.11)

29-6. **Display Tube B (2/2):**
Remove the four (4) screws marked [180C]. The display tube B (2/2) can then be removed. (Fig.11)

30. LCD Assembly

(Time required: About 5 minutes)

30-1. Remove the eight (8) screws marked [290B] from the control panel side. The LCD assembly can then be removed. (Fig.9)

✻ Be careful no to scratch the control panel during installation.

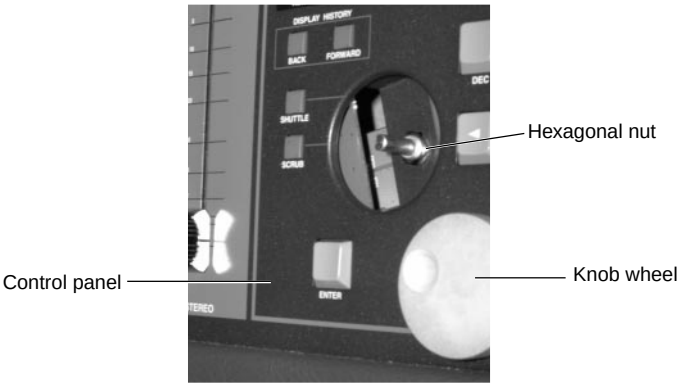
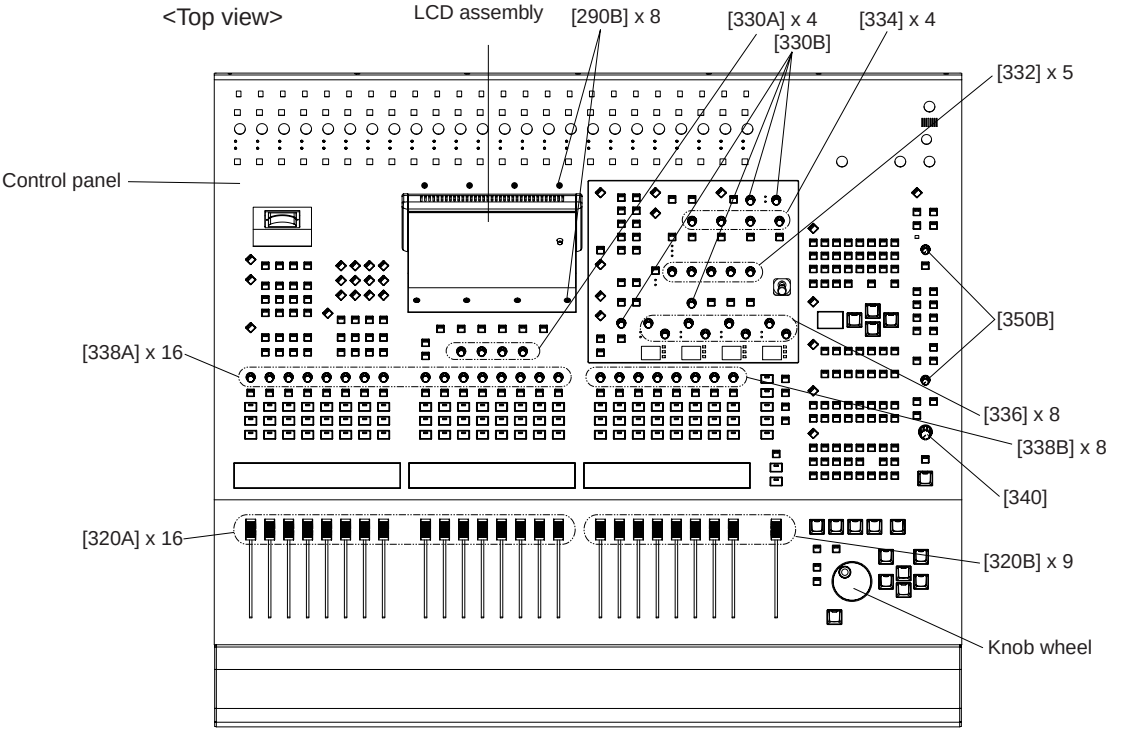
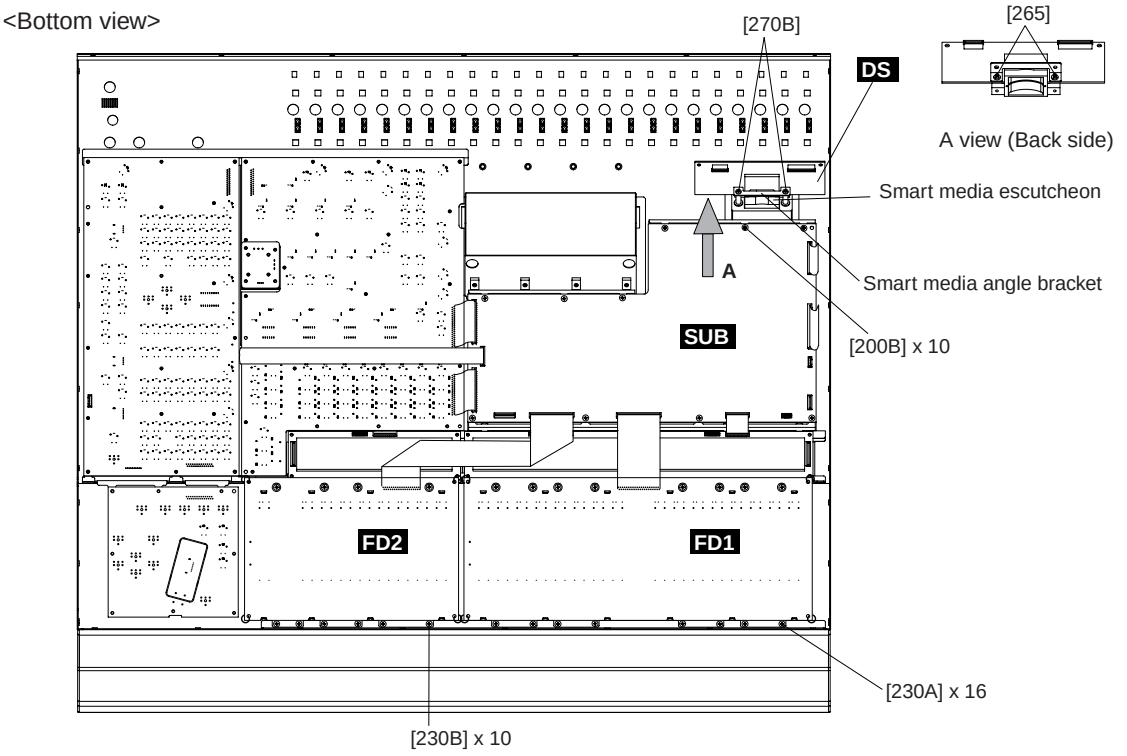


Photo.8



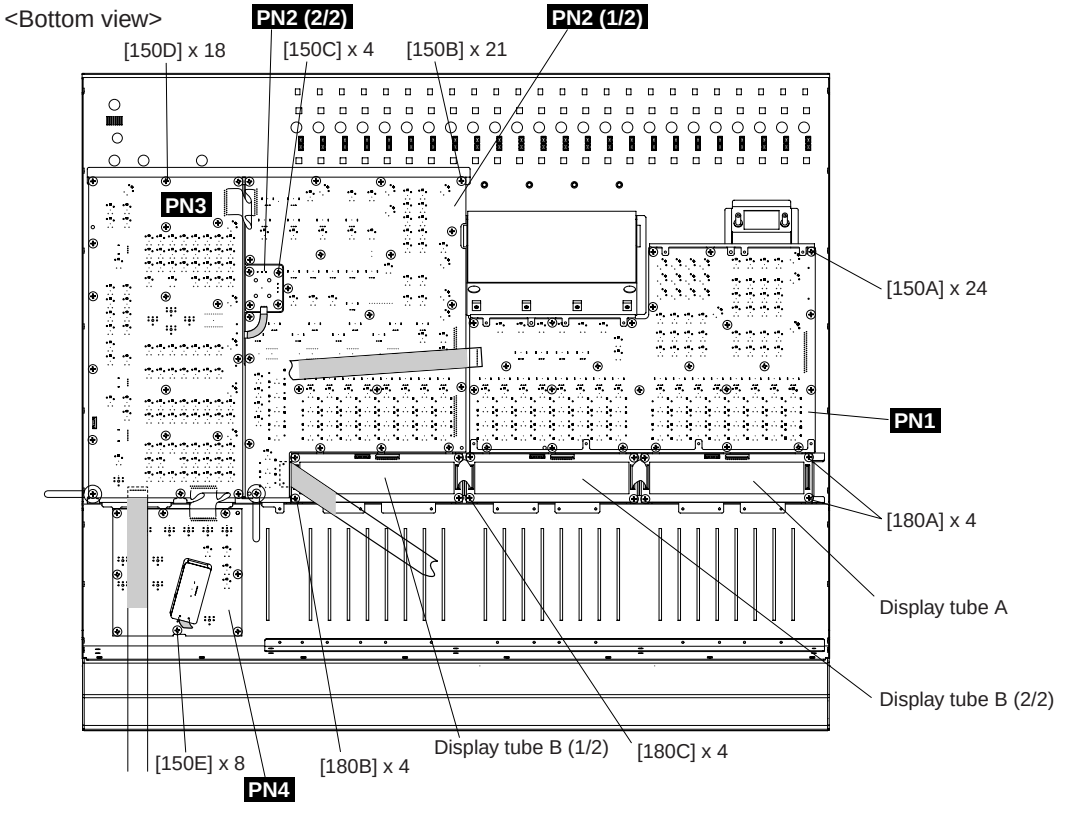
[290B]:Flat Head Tapping Screw-B 3.0X8 MFZN2BL (EP600790)

Fig.9



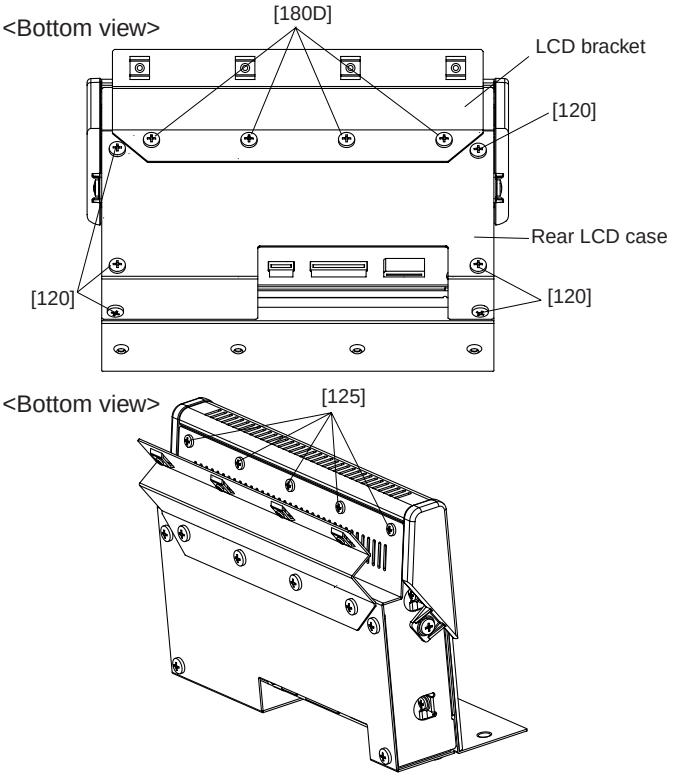
[200B]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[230]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[265]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[270B]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)

Fig.10



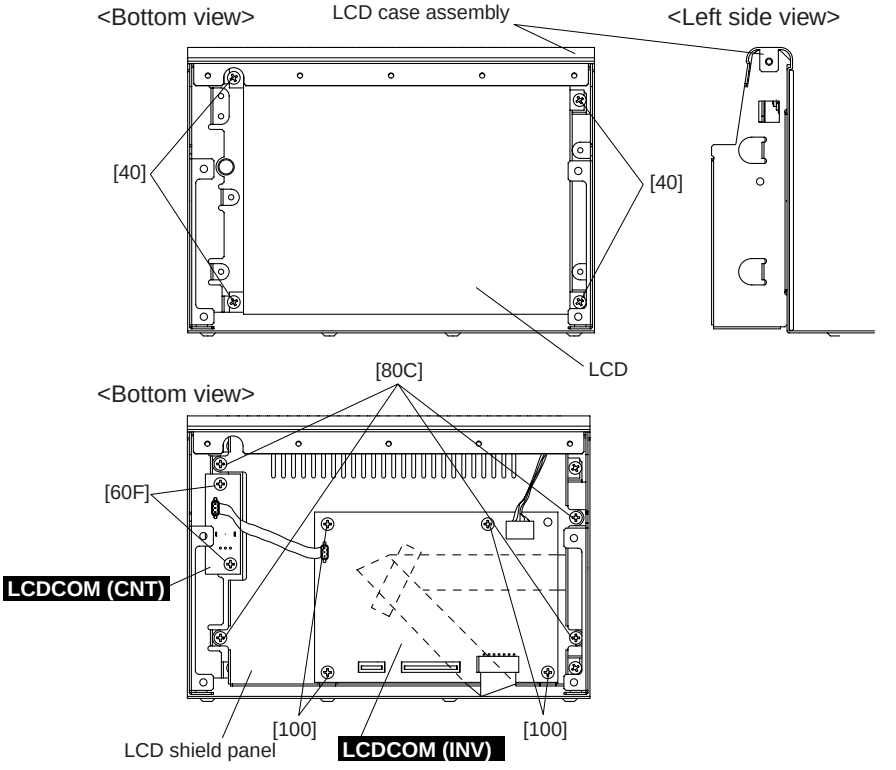
[150]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[180]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)

Fig.11



[120]: Bind Head Tapping Screw-B A4.0X8 MFZN2BL (VC688800)
[125]: Bind Head Tapping Screw-B A3.0X6 MFZN2BL (VP157900)
[180D]: Bind Head Tapping Screw-B A4.0X8 MFZN2BL (VC688800)

Fig.12



[40]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)
[60F]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)
[80C]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)
[100]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

Fig.13

31. LCDCOM (CNT+INV) Circuit Board and LCD

(Time required: About 15 minutes each)

31-1. Remove the LCD assembly. (See procedure 30.)

31-2. Remove the four (4) screws marked [180D]. The LCD bracket can then be removed. (Fig.12)

31-3. Remove the six (6) screws marked [120] and the five (5) screws marked [125]. The rear LCD case can then be removed. (Fig.12)

31-4. Remove the two (2) screws marked [60F] and the four (4) screws marked [80C]. The LCD shield panel can then be removed with the LCDCOM (CNT+INV) circuit board. (Fig.13)

31-5. **LCDCOM (CNT+INV) Circuit Board:**
Remove the four (4) screws marked [100]. The LCDCOM (CNT+INV) circuit board can then be removed from the LCD shield panel. (Fig.13)

✻ The CNT and INV circuit boards are joined by soldering.

Note: The INV circuit board must be handled carefully since it produces high voltages.

31-6. **LCD:**
Remove the four (4) screws marked [40]. The LCD can then be removed. (Fig.13)

Disassembling the MB2000

32. Rear Panel

(Time required: About 10 minutes)

32-1. Remove the MB2000. (See procedure 2.)

32-2. Remove the two (2) screws marked [G]. The meter angle L can then be removed from the MB2000. (Photo.9)
The meter angle R can be removed in the same manner.

32-3. Remove the twenty-four (24) screws marked [160G]. The rear panel can then be removed from the front panel. (Fig.14)

33. DC Circuit Board

(Time required: About 15 minutes)

33-1. Remove the rear panel. (See procedure 32.)

33-2. Remove the six (6) screws marked [90]. The DC circuit board can then be removed. (Fig.15)

34. PN1 and PN2 Circuit Boards

(Time required: About 15 minutes each)

34-1. Remove the rear panel. (See procedure 32.)

34-2. **PN1 Circuit Board:**
Remove the nine (9) screws marked [60G]. The PN1 circuit board can then be removed. (Fig.15)

34-3. **PN2 Circuit Board:**
Remove the nine (9) screws marked [60H]. The PN2 circuit board can then be removed. (Fig.15)

35. Cannon Connector

(Time required: About 15 minutes)

35-1. Remove the rear panel. (See procedure 32.)

35-2. Remove the two (2) screws marked [110] from the rear side. The cannon connector can then be removed. (Fig.15)
The opposite cannon connector can be removed in the same manner.

36. DSUB Cable

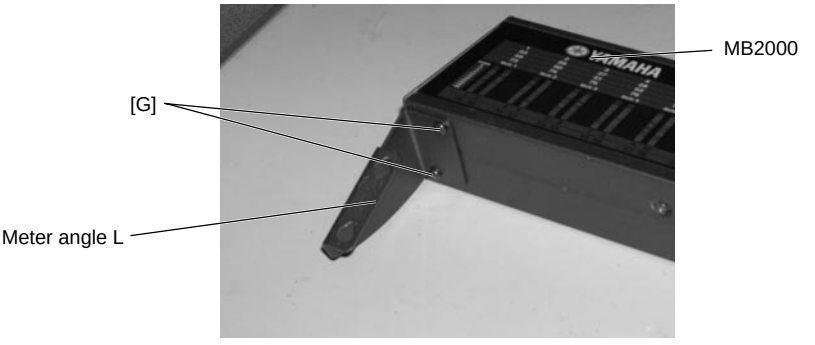
(Time required: About 15 minutes)

36-1. Remove the rear panel. (See procedure 32.)

36-2. Remove the screw marked [150F]. The cable holder can then be removed. (Fig.15)

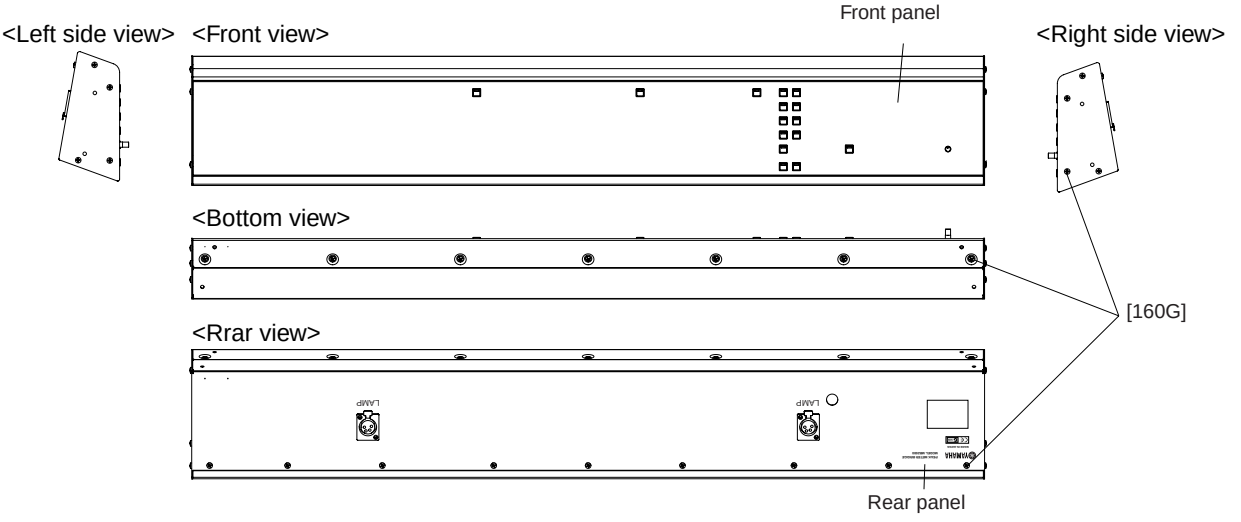
36-3. Remove the DSUB cable with the bushing. (Fig.15)

✻ The bushing is not part of the DSUB cable. When you replace the DSUB cable, you should remove the bushing from the cable, and attach in the new cable.



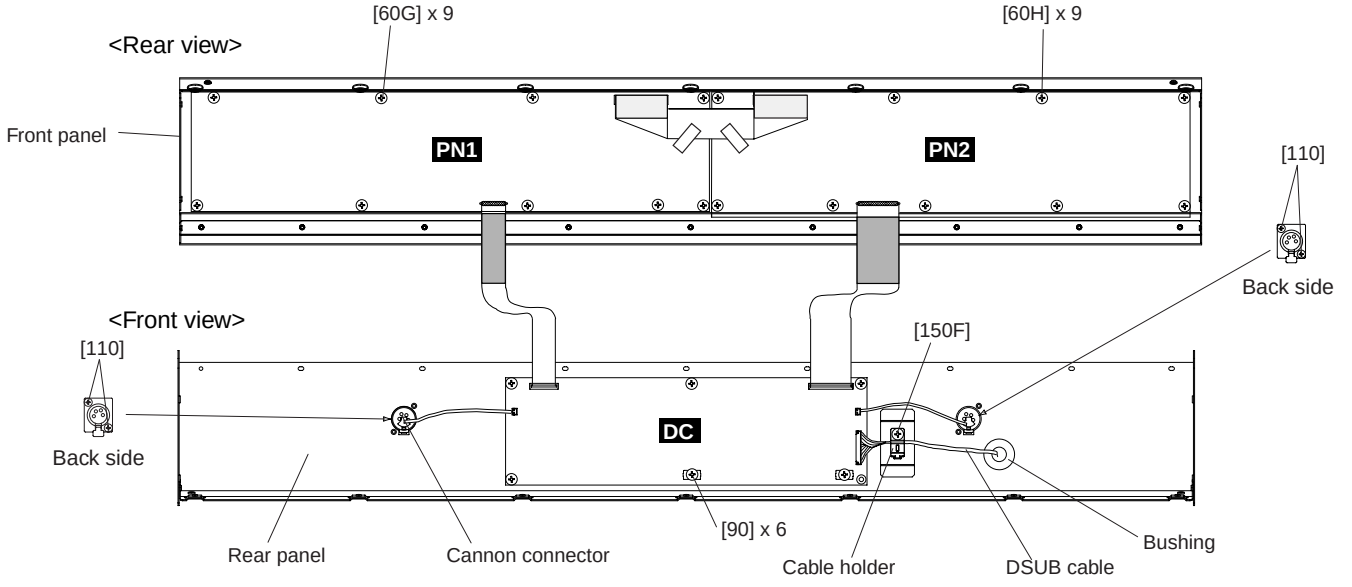
[G]: Bind Head Screw A4.0X8 MFZN2BL (VP156800)

Photo.9



[160G]: Bind Head Tapping Screw-B A3.0X8 MFZN2BL (VP157000)

Fig.14



[60]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[90]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[110]:	Pan Head Screw	2.6X8 MFNI33 (EE620190)
[150F]:	Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)

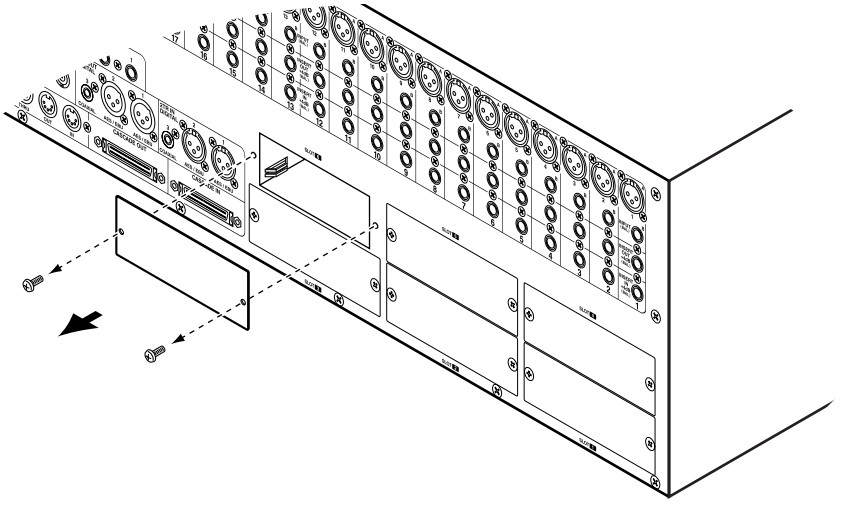
Fig.15

INSTALLING I/O CARDS

This section explains how to install I/O Cards.

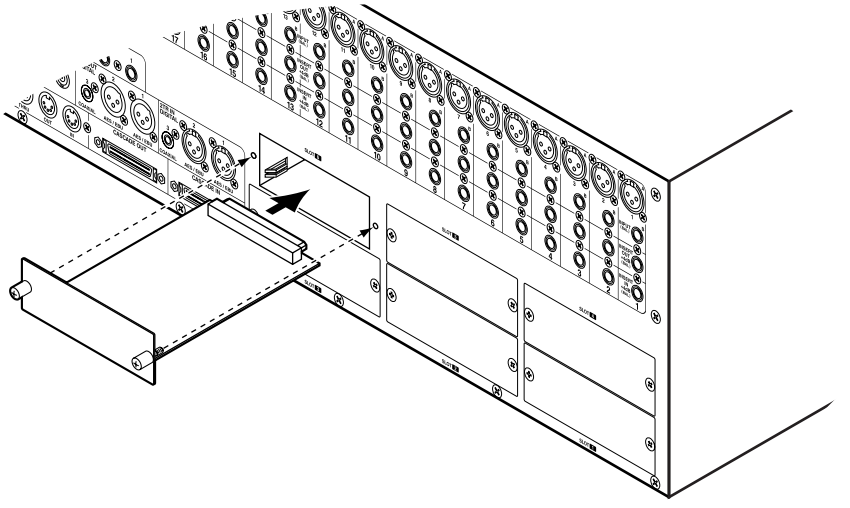
1 Turn off the DM2000.

2 Undo the two fixing screws and remove the slot cover, as shown below.



Keep the cover and fixing screws in a safe place for future use.

3 Insert the card between the guide rails and slide it all the way into the slot, as shown below. You may have to push firmly to plug the card into the internal connector.



4 Secure the card using the attached thumbscrews. Do not leave them loose, as the card will not be grounded correctly, which may cause the DM2000 to malfunction.

You can check which I/O Cards are installed on the Word Clock Select page

■ LSI PIN DESCRIPTION

M37640M8-101FP (XW147100) CPU **59**
32KM37640M8-138FP (X0157100) CPU **59**
SH7709A FP-208C (XY065A00) CPU **60**
HD64F7044F28 (X2962A00) CPU **61**
HD6437042AF28 (X2824A00) CPU **61**
YSS910-S (XV988A00) DSP6 (Digital Signal Processor) **62**
YSS919-H (XZ693A00) DSP7 (Digital Signal Processor) **63**
SGH603064F-62F (XV973A00) Gate Array **64**
YM3436DK (XG948E00) DIR2 (Digital Format Interface Receiver) **64**
YM6604C-S (XU240A00) ACIA (Asynchronous Communication Interface Adapter) **65**
MSM82C51A-2GS-KR1 (XV513A00) USART (Universal Synchronous Asynchronous receiver Transmitter) **66**
ICS2008A (XV619A00) T.C. Reader/Generator **66**
CS8420 (XW559A00) SRC (Sample Rate Converter) **66**
XCS40-3PQ240C (XZ334A00) FPGA (Field Programmable Gate Arrays) **67**
S1D13305F00B100 (XQ595A00) LCDC (LCD Controller) **68**
AK4393-VF-E2 (XW029A00) DAC (Digital to Analog Converter) **68**
AK5393-VS-E2 (XZ298A00) ADC (Analog to Digital Converter) **68**

● **M37640M8-101FP** (XW147100) **CPU**
32KM37640M8-138FP (X0157100) **CPU**

JK1: IC201

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	$P6_1/DQ_1$	I/O	Port 6	41	$P1_7/AB_{15}$	I/O	
2	$P6_0/DQ_0$	I/O	Port 6	42	$P1_6/AB_{14}$	I/O	
3	$P5_7$//W(R//w)	I/O		43	$P1_5/AB_{13}$	I/O	
4	$P5_6$//R(E)	I/O		44	$P1_4/AB_{12}$	I/O	Port 1
5	$P5_5/A_0$	I/O	Port 5	45	$P1_3/AB_{11}$	I/O	
6	$P5_4/S_0$	I/O		46	$P1_2/AB_{10}$	I/O	
7	$P5_3$//IBF_0	I/O		47	$P1_1/AB_9$	I/O	
8	$P5_2/OBF_0$	I/O		48	$P1_0/AB_8$	I/O	
9	CNV_{SS}/V_{PP}	I	Chip Operation Mode	49	$P0_7/AB_7$	I/O	
10	/RESET	I	Reset Input	50	$P0_6/AB_6$	I/O	
11	$P5_1/T_{OUT}/X_{COUT}$	I/O	Port 5	51	$P0_5/AB_5$	I/O	
12	$P5_0/X_{CIN}$	I/O	Port 5	52	$P0_4/AB_4$	I/O	Port 0
13	V_{SS}	-	Ground	53	$P0_3/AB_3$	I/O	
14	X_{IN}	I	Quartz Crystal Input	54	$P0_2/AB_2$	I/O	
15	X_{OUT}	O	Quartz Crystal Output	55	$P0_1/AB_1$	I/O	
16	V_{CC}	-	Power Supply	56	$P0_0/AB_0$	I/O	
17	AV_{CC}	-	Analog Power Supply	57	$P2_7/DB_7$	I/O	
18	LPF	O	Loop Filter for Synthesizer	58	$P2_6/DB_6$	I/O	
19	AV_{SS}	-	Analog Ground	59	$P2_5/DB_5$	I/O	
20	$P4_4/CNTR_1$	I/O		60	$P2_4/DB_4$	I/O	Port 2
21	$P4_3/CNTR_0$	I/O		61	$P2_3/DB_3$	I/O	
22	$P4_2/INT_1$	I/O	Port 4	62	$P2_2/DB_2$	I/O	
23	$P4_1/INT_0$	I/O		63	$P2_1/DB_1$	I/O	
24	$P4_0$//EDMA	I/O		64	$P2_0/DB_0$	I/O	
25	$P8_7$//RTS_1	I/O		65	$P7_4/OBF_1$	I/O	
26	$P8_6$//CTS_1	I/O		66	$P7_3$//IBF_1//HLDA	I/O	
27	$P8_5/URXD_1$	I/O		67	$P7_2$//S_1	I/O	Port 7
28	$P8_4/UTXD_1$	I/O	Port 8	68	$P7_1$//HOLD	I/O	
29	$P8_3$//RTS_2/STXD	I/O		69	$P7_0$//SOF	I/O	
30	$P8_2$//CTS_2/SRXD	I/O		70	USB D+	I/O	USB +Voltage Line Interface
31	$P8_1/URXD_2$/SCLK	I/O		71	USB D-	I/O	USB -Voltage Line Interface
32	$P8_0/UTXD_2$//SRDY	I/O		72	Ext. Cap	O	Power supply (3.3V)
33	$P3_7$//RD	I/O		73	Vss	-	Ground
34	$P3_6$//WR	I/O		74	Vcc	-	Power Supply
35	$P3_5/SYNC_{OUT}$	I/O		75	$P6_7/DQ_7$	I/O	
36	$P3_4/\phi_{OUT}$	I/O	Port 3	76	$P6_6/DQ_6$	I/O	
37	$P3_3/DMA_{OUT}$	I/O		77	$P6_5/DQ_5$	I/O	Port 6
38	$P3_2$	I/O		78	$P6_4/DQ_4$	I/O	
39	$P3_1$	I/O		79	$P6_3/DQ_3$	I/O	
40	$P3_0$/RDY	I/O		80	$P6_2/DQ_2$	I/O	

● SH7709A FP-208C (XY065A00) CPU

CPU: IC101

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	MD1	I	Clock mode	105	CKE/PTK[5]	I/O	CK enable/Port K
2	MD2	I	Clock mode	106	RAS3L/PTJ[0]	I/O	DRAM row address strobe/Port J
3	Vcc-RTC*1	-	Power supply for RTC (1.8 V)	107	RAS2L/PTJ[1]	I/O	DRAM row address strobe/Port J
4	XTAL2	O	Crystal oscillator for RTC	108	CASLL/CASL/PTJ[2]	I/O	Column address strobe (low)/Port J
5	EXTAL2	I	Crystal oscillator for RTC	109	VssO	-	Ground
6	Vss-RTC*1	-	Ground	110	CASLH/CASU/PTJ[3]	I/O	Column address strobe (high)/Port J
7	NMI	I	Non-maskable interrupt request	111	VccO	-	Power supply (3.3 V)
8	IRO0/IRL0/PTH[0]	I	Interrupt request/Input port H	112	CASHL/PTJ[4]	I/O	HL Column address strobe/Port J
9	IRO1/IRL1/PTH[1]	I	Interrupt request/Input port H	113	CASHH/PTJ[5]	I/O	HH Column address strobe/Port J
10	IRO2/IRL2/PTH[2]	I	Interrupt request/Input port H	114	DACK0/PTD[5]	I/O	DMA acknowledge transfer strobe 0/Port D
11	IRO3/IRL3/PTH[3]	I	Interrupt request/Input port H	115	DACK1/PTD[7]	I/O	DMA acknowledge transfer strobe 1/Port D
12	IRO4/PTH[4]	I	Interrupt request/Input port H	116	CAS2L/PTE[6]	I/O	Column address strobe (low)/Port E
13	D31/PTB[7]	I/O	Data bus/Port B	117	CAS2H/PTE[3]	I/O	Column address strobe (high)/Port E
14	D30/PTB[6]	I/O	Data bus/Port B	118	RAS3U/PTE[2]	I/O	DRAM address strobe/Port E
15	D29/PTB[5]	I/O	Data bus/Port B	119	RAS2U/PTE[1]	I/O	DRAM address strobe/Port E
16	D28/PTB[4]	I/O	Data bus/Port B	120	TDO/PTE[0]	I/O	Test data output/Port E
17	D27/PYB[3]	I/O	Data bus/Port B	121	BACK	O	Bus acknowledge
18	D26/PTB[2]	I/O	Data bus/Port B	122	BREO	I	Bus request
19	VssO	-	Ground	123	WAIT	I	Hardware wait request
20	D25/PTB[1]	I/O	Data bus/Port B	124	RESETM	I	Reset
21	VccO	-	Power supply (3.3 V)	125	ADTRG/PTH[5]	I	Analog trigger/Input port H
22	D24/PTB[0]	I/O	Data bus/Port B	126	IOISI6/PTG[7]	I	Write protect/Area 6 input/Input port G
23	D23/PTA[7]	I/O	Data bus/Port A	127	ASEMD0/PTG[6]	I	ASE mode/Input port G
24	D22/PTA[6]	I/O	Data bus/Port A	128	ASEBRKAK/PTG[5]	I/O	ASE break acknowledge/Input port G
25	D21/PTA[5]	I/O	Data bus/Port A	129	PTG[4]	I	Input port G
26	D20/PTA[4]	I/O	Data bus/Port A	130	AUDATA[3]/PTG[3]	I/O	AUD data/Input port G
27	Vss	-	Ground	131	AUDATA[2]/PTG[2]	I/O	AUD data/Input port G
28	D19/PTA[3]	I/O	Data bus/Port A	132	Vss	-	Ground
29	Vcc	-	Power supply (1.8 V)	133	AUDATA[1]/PTG[1]	I/O	AUD data/Input port G
30	D18/PTA[2]	I/O	Data bus/Port A	134	Vcc	-	Power supply (1.8 V)
31	D17/PTA[1]	I/O	Data bus/Port A	135	AUDATA[0]/PTG[0]	I/O	AUD data/Input port G
32	D16/PTA[0]	I/O	Data bus/Port A	136	TRST/PTF[7]/PINT[15]	I	Test reset/Input port F/Interrupt port
33	VssO	-	Ground	137	TMS/PTF[6]/PINT[14]	I	Test mode switch/Input port F/Interrupt port
34	D15	I/O	Data bus	138	TDI/PTF[5]/PINT[13]	I	Input test data/Input port F/Interrupt port
35	VccO	-	Power supply (3.3 V)	139	TCK/PTF[4]/PINT[12]	I	Test clock/Input port F/Interrupt port
36	D14	I/O	Data bus	140	IRLS[3]/PTF[3]/PINT[11]	I	Interrupt request/Input port F/Interrupt port
37	D13	I/O	Data bus	141	IRLS[2]/PTF[2]/PINT[10]	I	Interrupt request/Input port F/Interrupt port
38	D12	I/O	Data bus	142	IRLS[1]/PTF[1]/PINT[9]	I	Interrupt request/Input port F/Interrupt port
39	D11	I/O	Data bus	143	IRLS[0]/PTF[0]/PINT[8]	I	Interrupt request/Input port F/Interrupt port
40	D10	I/O	Data bus	144	MD0	I	Clock mode
41	D9	I/O	Data bus	145	Vcc-PLL1*2	-	PLL1 Power supply (1.8 V)
42	D8	I/O	Data bus	146	CAP1	-	PLL1 capacitor
43	D7	I/O	Data bus	147	Vss-PLL1*2	-	PLL1 Ground
44	D6	I/O	Data bus	148	Vss-PLL2*2	-	PLL2 Ground
45	VssO	-	Ground	149	CAP2	-	PLL2 capacitor
46	D5	I/O	Data bus	150	Vcc-PII2*2	-	PLL2 Power supply (1.8 V)
47	VccO	-	Power supply (3.3 V)	151	AUDCK/PTH[6]	I	AUD clock/Input port H
48	D4	I/O	Data bus	152	Vss	-	Ground
49	D3	I/O	Data bus	153	Vss	-	Ground
50	D2	I/O	Data bus	154	Vcc	-	Power supply (1.8 V)
51	D1	I/O	Data bus	155	XTAL	O	Clock oscillator
52	D0	I/O	Data bus	156	EXTAL	I	Clock/Crystal oscillator
53	A0	I	Address bus	157	STATUS0/PTJ[6]	I/O	cessor status/Port J
54	A1	I	Address bus	158	STATUS1/PTJ[7]	I/O	Pross./Port J
55	A2	I	Address bus	159	TCLK/PTH[7]	I/O	Clock/Port H
56	A3	I	Address bus	160	IROOUT	O	'Interrupt request
57	VssO	-	Ground	161	VssO	-	Ground
58	A4	I	Address bus	162	CKIO	I/O	System Clock
59	VccO	-	Power supply (3.3 V)	163	VccO	-	Power supply (3.3 V)
60	A5	I	Address bus	164	TxD0/SCPT[0]	O	Data transmission 0/Output port
61	A6	I	Address bus	165	SOK0/SCPT[1]	I/O	Serial clock/Port
62	A7	I	Address bus	166	TxD1/SCPT[2]	O	Data transmission 1/Output port
63	A8	I	Address bus	167	SCK1/SCPT[3]	I/O	Serial clock/Port
64	A9	I	Address bus	168	TxD2/SCPT[4]	O	Data transmission 2/Output port
65	A10	I	Address bus	169	SCK2/SCPT[5]	I/O	Serial clock/Port
66	A11	I	Address bus	170	RTS2/SCPT[6]	I/O	Request to send 2/Output port
67	A12	I	Address bus	171	RxD0/SCPT[0]	I	Data reception 0/Output port
68	A13	I	Address bus	172	RxD1/SCPT[2]	I	Data reception 1/Output port
69	VssO	-	Ground	173	Vss	-	Ground
70	A14	I	Address bus	174	RxD2/SCPT[4]	I	Data reception 2/Output port
71	VccO	-	Power supply (3.3 V)	175	Vcc	-	Power supply (1.8 V)
72	A15	I	Address bus	176	CTS2/IRO5/SCP[7]	I	Clear to send 2/Interrupt request/Input port
73	A16	I	Address bus	177	MCS[7]/PTC[7]/PINT[7]	I/O	Mask chip select/Port C/Interrupt port
74	A17	I	Address bus	178	MCS[6]/PTC[6]/PINT[6]	I/O	Mask chip select/Port C/Interrupt port
75	A18	I	Address bus	179	MCS[5]/PTC[5]/PINT[5]	I/O	Mask chip select/Port C/Interrupt port
76	A19	I	Address bus	180	MCS[4]/PTC[4]/PINT[4]	I/O	Mask chip select/Port C/Interrupt port
77	A20	I	Address bus	181	VssO	-	Ground
78	A21	I	Address bus	182	WAKEUP/PTD[3]	I/O	Standby mode/Port D
79	Vss	-	Ground	183	VccO	-	Power supply (3.3 V)
80	A22	I	Address bus	184	RESETOUT/PTD[2]	I/O	Reset output/Port D
81	Vcc	-	Power supply (1.8 V)	185	MCS[3]/PTC[3]/PINT[3]	I/O	Mask chip select/Port C/Interrupt port
82	A23	I	Address bus	186	MCS[2]/PTC[2]/PINT[2]	I/O	Mask chip select/Port C/Interrupt port
83	VssO	-	Ground	187	MCS[1]/PTC[1]/PINT[1]	I/O	Mask chip select/Port C/Interrupt port
84	A24	I	Address bus	188	MCS[0]/PTC[0]/PINT[0]	I/O	Mask chip select/Port C/Interrupt port
85	VccO	-	Power supply (3.3 V)	189	DRAK0/PTD[1]	I/O	DMA transfer request/IPort D
86	A25	I	Address bus	190	DRAK1/PTD[0]	I/O	DMA transfer request/IPort D
87	BS/PTK[4]	I/O	Bus cycle signal start/Port K	191	DREQ0/PTD[4]	I	DMA transfer request/Input port D
88	RD	O	Read strobe	192	DREQ1/PTD[6]	I	DMA transfer request/Input port D
89	WE0/DOMLL	O	D7-D0 select sugnal/DOM (SDRAM)	193	RESETP	I	Power on reset
90	WE1/DOMLU/WE	O	D15-D8 select signal/DOM (SDRAM)	194	CA	I	Chip active/Hardware stand by request
91	WE2/DOMULICIORD/PTK[6]	I/O	D23-D16 select signal/DOM (SDRAM)/PCMCIA I/O read/Port K	195	MD3	I	Area 0 bus allocation
92	WE3/DOMUUICIOWR/PTK[7]	I/O	D31-D24 select signal/DOM (SDRAM)/PCMCIA I/O write/Port K	196	MD4	I	Area 0 bus allocation
93	RD/WR	O	Read/Write	197	MD5	I	Area 0 bus allocation
94	AUDSYNC/PTE[7]	I/O	AUD sync. signal/Port E	198	AVss	-	Ground
95	VssO	-	Ground	199	AN[0]/PTL[0]	I	AD converter input/Input port L
96	CS0/MCS[0]	O	Chip select/Mask ROM chip select	200	AN[1]/PTL[1]	I	AD converter input/Input port L
97	VccO	-	Power supply (3.3 V)	201	AN[2]/PTL[2]	I	AD converter input/Input port L
98	CS2/PTK[0]	I/O	Chip select2/Port K	202	AN[3]/PTL[3]	I	AD converter input/Input port L
99	CS3/PTK[1]	I/O	Chip select3/Port K	203	AN[4]/PTL[4]	I	AD converter input/Input port L
100	CS4/PTK[2]	I/O	Chip select4/Port K	204	AN[5]/PTL[5]	I	AD converter input/Input port L
101	CS5/CE1A/PTK[3]	I/O	Chip select5/CE1/Port K	205	AVcc (3.3 V)	-	Analog Power supply (3.3 V)
102	CS6/CE1B	I/O	Chip select6/CE1	206	AN[6]/DA[1]/PTL[6]	I	AD converter input/Input port L
103	CE2A/PTE[4]	I/O	Card enable/Port E	207	AN[7]/DA[0]/PTL[7]	I	AD converter input/Input port L
104	CE2B/PTE[5]	I/O	Card enable/Port E	208	AVss	-	Ground

• **HD64F7044F28** (X2962A00) **CPU**
HD6437042AF28 (X2824A00) **CPU**

DM2000/SUB: IC101, 107
MB2000/PN2: IC211

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PE14	O	Port E	57	D11	I/O	Data bus
2	PE15	O	Port E	58	D10	I/O	
3	VSS	I	Ground	59	D9	I/O	
4	A0	O	Address bus	60	D8	I/O	
5	A1	O		61	VSS	I	Ground
6	A2	O		62	D7	I/O	Data bus
7	A3	O		63	D6	I/O	
8	A4	O		64	D5	I/O	
9	A5	O		65	VCC	I	Power supply
10	A6	O		66	D4	I/O	Data bus
11	A7	O		67	D3	I/O	
12	A8	O		68	D2	I/O	
13	A9	O		69	D1	I/O	
14	A10	O		70	D0	I/O	
15	A11	O		71	VSS	I	Ground
16	A12	O		72	XTAL	I	Crystal oscillator
17	A13	O		73	MD3	I	Mode control
18	A14	O		74	EXTAL	I	Crystal oscillator
19	A15	O		75	MD2	I	Mode control
20	A16	O		76	NMI	I	Non-maskable interrupt request
21	VCC	I	Power supply	77	VCC	I	Power supply
22	A17	O	Address bus	78	MD1	I	Mode control
23	VSS	I	Ground	79	MD0	I	Mode control
24	PB2/IRQ0	I	Port B / Interrupt request	80	PLLVCC	I	PLL Power supply
25	PB3/IRQ1	I	Port B / Interrupt request	81	PLLCAP	I	PLL capacitor
26	PB4/IRQ2	I	Port B / Interrupt request	82	PLLVSS	I	PLL Ground
27	VSS	O	Ground	83	PA15 / CK	O	Port A / Clock
28	PB5/IRQ3	I	Port B / Interrupt request	84	/RES	I	Reset
29	A18	O	Address bus	85	PE0	I	Port E
30	A19	O		86	PE1	I	
31	A20	O		87	PE2	I	
32	PB9 /A21	O	Port B / Address bus	88	PE3	I	
33	VSS	I	Ground	89	PE4	I	
34	/RD	O	Read	90	VSS	I	Ground
35	/WDTOVF	O	Watch dog timer overflow	91	AN0 / PF0	I	Analog input / Port F
36	/WRH	O	High write	92	AN1 / PF1	I	
37	VCC	I	Power supply	93	AN2 / PF2	I	
38	/WRL	O	Low write	94	AN3 / PF3	I	
39	VSS	I	Ground	95	AN4 / PF4	I	
40	/CS1	O	Chip select	96	AN5 / PF5	I	
41	/CS0	O	Chip select	97	AVSS	I	Analog ground
42	PA9/IRQ3	I	Port A / Interrupt request	98	AN6 / PF6	I	Analog input / Port F
43	PA8/IRQ2	I	Port A / Interrupt request	99	AN7 / PF7	I	Analog input / Port F
44	/CS3	O	Chip select	100	AVCC	I	Power supply
45	/CS2	O	Chip select	101	VSS	I	Ground
46	PA5/IRQ1	I	Port A / Interrupt request	102	PE5	O	Port E
47	TXD1	O	Data transmission	103	VCC	I	Power supply
48	RXD1	I	Data reception	104	PE6	O	Port E
49	/IRQ0	I	Interrupt request	105	PE7	O	
50	PA1 / TXD0	O	Port A / Data transmission	106	PE8	O	
51	PA0 / RXD0	I	Port A / Data reception	107	PE9	O	
52	D15	I/O	Data bus	108	PE10	O	
53	D14	I/O		109	VSS	I	Ground
54	D13	I/O		110	PE11	O	Port E
55	VSS	I	Ground	111	PE12	O	
56	D12	I/O	Data bus	112	PE13	O	

● **YSS910-S** (XV988A00) **DSP6** (Digital Signal Processor)

DSP: IC401-408

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vdd		Power supply (3.3V)	89	Vss		Ground
2	Vss		Ground	90	DB13	I/O	Parallel data bus
3	XI	I	System master clock input (60MHz or 30MHz)	91	DB14	I/O	
4	XO	O	System master clock output (High or 30MHz)	92	DB15	I/O	
5	Vdd		Power supply (5V)	93	DB16	I/O	
6	/SYNCI	I	Sync. signal input	94	DB17	I/O	
7	/SYNCO	O	Sync. signal output	95	DB18	I/O	
8	Vdd		Power supply (5V)	96	DB19	I/O	
9	CKI	I	System clock input (30MHz)	97	DB20	I/O	
10	CKO	O	System clock output (30MHz)	98	DB21	I/O	
11	CKSEL	I	System master clock select (0: 60MHz, 1: 30MHz)	99	DB22	I/O	
12	Vss		Ground	100	Vss		Ground
13	MCKS	I	Serial I/O master clock input (128 x Fs)	101	Vdd		Power supply (3.3V)
14	/SSYNC	I	Serial I/O Sync. signal output	102	DB23	I/O	Parallel data bus
15	/IC	I	Initial clear	103	DB24	I/O	
16	/TEST	I	Test mode setting (0: Test, 1: Normal)	104	DB25	I/O	
17	BTYP	I	Data bus type select (0: 8bit, 1: 16bit)	105	DB26	I/O	
18	/IRQ	O	IRQ output	106	DB27	I/O	
19	TRIG	I/O	Trigger signal input/output	107	DB28	I/O	
20	Vdd		Power supply (5V)	108	DB29	I/O	
21	Vss		Ground	109	DB30	I/O	
22	/CS	I	chip select signal input	110	DB31	I/O	
23	/WR	I	Write signal input	111	TIMO/DBOB	I/O	Timing signal output/ Parallel data bus output/ input
24	/RD	I	Read signal input	112	Vss		Ground
25	CA7	I/O	Address bus of internal register	113	Vdd		Power supply (5V)
26	CA6	I/O		114	DA00	I/O	Memory data bus
27	CA5	I/O		115	DA01	I/O	
28	CA4	I/O		116	DA02	I/O	
29	CA3	I/O		117	DA03	I/O	
30	CA2	I/O		118	DA04	I/O	
31	CA1	I/O		119	DA05	I/O	
32	Vss		Ground	120	DA06	I/O	
33	Vdd		Power supply (3.3V)	121	DA07	I/O	
34	CD15	I/O	Data bus of internal register	122	Vss		Ground
35	CD14	I/O		123	DA08	I/O	Memory data bus
36	CD13	I/O		124	DA09	I/O	
37	CD12	I/O		125	DA10	I/O	
38	CD11	I/O		126	DA11	I/O	
39	CD10	I/O		127	DA12	I/O	
40	CD09	I/O		128	DA13	I/O	
41	CD08	I/O		129	DA14	I/O	
42	CD07	I/O		130	DA15	I/O	
43	CD06	I/O		131	Vss		Ground
44	Vss		Ground	132	Vdd		Power supply (3.3V)
45	Vdd		Power supply (3.3V)	133	(n.c)		Not used
46	Vdd		Power supply (5V)	134	Vdd		Power supply (5V)
47	CD05	I/O	Data bus of internal register	135	DA16	I/O	Memory data bus
48	CD04	I/O		136	DA17	I/O	
49	CD03	I/O		137	DA18	I/O	
50	CD02	I/O		138	DA19	I/O	
51	CD01	I/O		139	DA20	I/O	
52	CD00	I/O		140	DA21	I/O	
53	/WAIT	O	WAIT output	141	DA22	I/O	
54	Vss		Ground	142	DA23	I/O	
55	SI0	I	Serial data input	143	Vss		Ground
56	SI1	I		144	DA24	I/O	Memory data bus
57	SI2	I		145	DA25	I/O	
58	SI3	I		146	DA26	I/O	
59	SI4	I		147	DA27	I/O	
60	SI5	I		148	DA28	I/O	
61	SI6	I		149	DA29	I/O	
62	SI7	I		150	DA30	I/O	
63	Vss		Ground	151	DA31	I/O	
64	Vdd		Power supply (5V)	152	Vdd		Power supply (5V)
65	SO0	O	Serial data output	153	Vss		Ground
66	SO1	O		154	A00	O	Memory address (SRAM, PSRAM, DRAM)
67	SO2	O		155	A01	O	
68	SO3	O		156	A02	O	
69	SO4	O		157	A03	O	
70	SO5	O		158	A04	O	
71	SO6	O		159	A05	O	
72	SO7	O		160	A06	O	
73	Vss		Ground	161	A07	O	
74	DB00	I/O	Parallel data bus	162	A08	O	
75	DB01	I/O		163	A09	O	
76	DB02	I/O		164	Vss		Ground
77	DB03	I/O		165	Vdd		Power supply (3.3V)
78	DB04	I/O		166	A10	O	Memory address (SRAM, PSRAM, DRAM)
79	DB05	I/O		167	A11	O	
80	DB06	I/O		168	A12	O	Memory address (SRAM, PSRAM)
81	DB07	I/O		169	A13	O	
82	DB08	I/O		170	A14	O	
83	DB09	I/O		171	A15/RAS	O	Memory address (SRAM, PSRAM), /RAS (DRAM)
84	DB10	I/O		172	A16/CAS	O	Memory address (SRAM, PSRAM), /CAS (DRAM)
85	DB11	I/O		173	A17/CE	O	Memory address (SRAM), /CE (PSRAM)
86	DB12	I/O		174	/WE	O	Memory write enable signal
87	Vdd		Power supply (5V)	175	/OE	O	Memory output enable signal
88	Vdd		Power supply (3.3V)	176	Vdd		Power supply (5V)

● **YSS919-H** (XZ693A00) **DSP7** (Digital Signal Processor)

DSP: IC101-114

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PLLEN	I	PLL enable input (0: PLL unuse, 1: PLL use)	105	SIO32	I/O	
2	/TEST	I	Test mode setting (0: TEST, 1: Normal)	106	SIO33	I/O	
3	AVss		Analog ground	107	SIO34	I/O	
4	CPO		PLL filter	108	SIO35	I/O	
5	AVdd		Power supply (2.5 V)	109	SIO36	I/O	Serial data bus
6	Vss		Ground	110	SIO37	I/O	
7	Vdd		Power supply (3.3 V)	111	SIO38	I/O	
8	/IC	I	Initial clear	112	SIO39	I/O	
9	/MUTE	I	Mute control (0: SIO mute, 1: SIO normal in-out)	113	Vdd		Power supply (2.5 V)
10	/SSYNC	I	Serial I/O Sync. signal input	114	Vss		Ground
11	MCKS	I	Serial I/O master clock input (128 x Fs)	115	SIO40	I/O	
12	XI	I	System master clock input (60 MHz or 15 MHz)	116	SIO41	I/O	
13	BTYP	I	Data bus type select (0: 16 bits, 1: 32 bits)	117	SIO42	I/O	
14	/CS	I	Chip select	118	SIO43	I/O	
15	/WR	I	Write enable input	119	SIO44	I/O	Serial data bus
16	/RD	I	Read enable input	120	SIO45	I/O	
17	CA7	I		121	SIO46	I/O	
18	CA6	I		122	SIO47	I/O	
19	CA5	I		123	Vss		Ground
20	CA4	I	CPU address bus	124	Vdd		Power supply (3.3 V)
21	CA3	I		125	SIO48	I/O	
22	CA2	I		126	SIO49	I/O	
23	Vss		Ground	127	SIO50	I/O	
24	Vdd		Power supply (3.3 V)	128	SIO51	I/O	
25	CD31/CA1	I/O	CPU data bus / CPU address bus	129	SIO52	I/O	Serial data bus
26	CD30	I/O		130	SIO53	I/O	
27	CD29	I/O		131	SIO54	I/O	
28	CD28	I/O		132	SIO55	I/O	
29	CD27	I/O	CPU data bus	133	Vss		Ground
30	CD26	I/O		134	SIO56	I/O	
31	CD25	I/O		135	SIO57	I/O	
32	CD24	I/O		136	SIO58	I/O	
33	Vdd		Power supply (2.5 V)	137	SIO59	I/O	Serial data bus
34	Vss		Ground	138	SIO60	I/O	
35	CD23	I/O		139	SIO61	I/O	
36	CD22	I/O		140	SIO62	I/O	
37	CD21	I/O		141	SIO63	I/O	
38	CD20	I/O		142	Vdd		Power supply (2.5 V)
39	CD19	I/O	CPU data bus	143	Vss		Ground
40	CD18	I/O		144	Vdd		Power supply (3.3 V)
41	CD17	I/O		145	DA00	I/O	
42	CD16	I/O		146	DA01	I/O	
43	Vss		Ground	147	DA02	I/O	
44	Vdd		Power supply (3.3 V)	148	DA03	I/O	
45	CD15	I/O		149	DA04	I/O	Memory data bus
46	CD14	I/O		150	DA05	I/O	
47	CD13	I/O		151	DA06	I/O	
48	CD12	I/O		152	DA07	I/O	
49	CD11	I/O	CPU data bus	153	Vss		Ground
50	CD10	I/O		154	DA08	I/O	
51	CD09	I/O		155	DA09	I/O	
52	CD08	I/O		156	DA10	I/O	
53	Vss		Ground	157	DA11	I/O	
54	CD07	I/O		158	DA12	I/O	Memory data bus
55	CD06	I/O		159	DA13	I/O	
56	CD05	I/O		160	DA14	I/O	
57	CD04	I/O		161	DA15	I/O	
58	CD03	I/O	CPU data bus	162	Vss		Ground
59	CD02	I/O		163	Vdd		Power supply (3.3 V)
60	CD01	I/O		164	DA16	I/O	
61	CD00	I/O		165	DA17	I/O	
62	/WAIT	O	Wait output	166	DA18	I/O	
63	Vdd		Power supply (2.5 V)	167	DA19	I/O	Memory data bus
64	Vss		Ground	168	DA20	I/O	
65	Vdd		Power supply (3.3 V)	169	DA21	I/O	
66	SIO00	I/O		170	DA22	I/O	
67	SIO01	I/O		171	DA23	I/O	
68	SIO02	I/O		172	Vdd		Power supply (2.5 V)
69	SIO03	I/O	Serial data bus	173	Vss		Ground
70	SIO04	I/O		174	DA24	I/O	
71	SIO05	I/O		175	DA25	I/O	
72	SIO06	I/O		176	DA26	I/O	
73	SIO07	I/O		177	DA27	I/O	
74	Vss		Ground	178	DA28	I/O	Memory data bus
75	SIO08	I/O		179	DA29	I/O	
76	SIO09	I/O		180	DA30	I/O	
77	SIO10	I/O		181	DA31	I/O	
78	SIO11	I/O		182	Vss		Ground
79	SIO12	I/O	Serial data bus	183	Vdd		Power supply (3.3 V)
80	SIO13	I/O		184	/WE	O	Memory write enable signal
81	SIO14	I/O		185	/CAS	O	Column address strobe
82	SIO15	I/O		186	SDCK	O	Clock (SDRAM)
83	Vss		Ground	187	CKE	O	CKE (SDRAM)
84	Vdd		Power supply (3.3 V)	188	/RAS	O	Row address strobe
85	SIO16	I/O		189	Vdd		Power supply (2.5 V)
86	SIO17	I/O		190	Vss		Ground
87	SIO18	I/O		191	BA1	O	Bank select (SDRAM)
88	SIO19	I/O	Serial data bus	192	BA0	O	
89	SIO20	I/O		193	A12	O	
90	SIO21	I/O		194	A11	O	
91	SIO22	I/O		195	A10	O	Memory address (SDRAM, DRAM)
92	SIO23	I/O		196	A09	O	
93	Vdd		Power supply (2.5 V)	197	A08	O	
94	Vss		Ground	198	Vss		Ground
95	SIO24	I/O		199	Vdd		Power supply (3.3 V)
96	SIO25	I/O		200	A07	O	
97	SIO26	I/O		201	A06	O	
98	SIO27	I/O	Serial data bus	202	A05	O	
99	SIO28	I/O		203	A04	O	Memory address (SDRAM, DRAM)
100	SIO29	I/O		204	A03	O	
101	SIO30	I/O		205	A02	O	
102	SIO31	I/O		206	A01	O	
103	Vss		Ground	207	A00	O	
104	Vdd		Power supply (3.3 V)	208	Vss		Ground

● SGH603064F-62F (XV973A00) Gate Array

SUB: IC119-122

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	RA1	I	Encoder input	33	D0	O	Data bus
2	RB1	I		34	D1	O	
3	RA2	I		35	Vss		Ground
4	RB2	I		36	D2	O	Data bus
5	Vss		Ground	37	D3	O	
6	RA3	I	Encoder input	38	Vss		Ground
7	RB3	I		39	D4	O	Data bus
8	RA4	I		40	D5	O	
9	RB4	I		41	Vss		Ground
10	Vss		Ground	42	D6	O	Data bus
11	RA5	I	Encoder input	43	D7	O	
12	RB5	I		44	Vss		Ground
13	RA6	I		45	NC		Not used
14	RB6	I		46	NC		
15	Vss		Ground	47	RA9	I	Encoder input
16	RA7	I	Encoder input	48	RB9	I	
17	RB7	I		49	RA10	I	
18	RA8	I		50	RB10	I	
19	RB8	I		51	RA11	I	
20	A0	I	Address bus	52	RB11	I	
21	A1	I		53	RA12	I	
22	A2	I		54	RB12	I	
23	Vss		Ground	55	RA13	I	
24	RDN	I	Read	56	RB13	I	
25	CSN	I	Chip select	57	RA14	I	
26	VDD		Power supply +5V	58	VDD		Power supply +5V
27	ASN	I	Address strobe	59	RB14	I	Encoder input
28	A3N	I	Address bus	60	RA15	I	
29	SEL	I	Bus select	61	RB15	I	
30	NC		Not used	62	RA16	I	
31	NC			63	RB16	I	
32	NC			64	Vss		Ground

● YM3436DK (XG948E00) DIR2 (Digital Format Interface Receiver)

DSP: IC064

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DAUX	I	Auxiliary input for audio data	23	RSTN	I	System reset input
2	HDLT	O	Asynchronous buffer operation flag	24	Vdda		VCO section power (+5V)
3	DOUT	O	Audio data output	25	CTLN	I	VCO control input N
4	VFL	O	Parity flag output	26	PCO	O	PLL phase comparison output
5	OPT	O	Fs x 1 Synchronous output signal for DAC	27	(NC)		
6	SYNC	O	Fs x 1 Synchronous output signal for DSP	28	CTLP	I	VCO control input P
7	MCC	O	Fs x 64 Bit clock output	29	Vssa		VCO section power (GND)
8	WC	O	Fs x 1 Word clock output	30	TSTN	I	Test terminal. Open for normal use
9	MCB	O	Fs x 128 Bit clock output	31	KM2	I	Clock mode switching input 2
10	MCA	O	Fs x 256 Bit clock output	32	KM0	I	Clock mode switching input 0
11	SKSY	I	Clock synchronization control input	33	FS1	O	Channel status sampling frequency display output 1
12	XI	I	Crystal oscillator connection or external clock input	34	FS0	O	Channel status sampling frequency display output 0
13	XO	O	Crystal oscillator connection	35	CSM	I	Channel status output method selection
14	P256	O	VCO oscillating clock connection	36	EXTW	I	External synchronous auxiliary input word clock
15	LOCK	O	PLL lock flag	37	DDIN	I	EIAJ (AES/EBU) data input
16	Vss		Logic section power (GND)	38	LR	O	PLL word clock output
17	TC	O	PLL time constant switching output	39	Vdd		Logic section power (+5 V)
18	DIM1	I	Data input mode selection	40	ERR	O	Data error flag output
19	DIM0	I	Data input mode selection	41	EMP	O	Channel status emphasis control code output
20	DOM1	I	Data output mode selection	42	CD0	O	3-wire type microcomputer interface data output
21	DOM0	I	Data output mode selection	43	CCK	I	3-wire type microcomputer interface clock input
22	KM1	I	Clock mode switching input 1	44	CLD	I	3-wire type microcomputer interface load input

● YM6604C-S (XU240A00) ACIA (Asynchronous Communication Interface Adapter)

DSP: IC703

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	RESETN	I	Reset	51	NC		Not used
2	NC		Not used	52	IRQ3N	I	Interrupt request
3	CSN	I	Chip select	53	IRQ4N	I	
4	ASN	I	Address strobe	54	NC		Not used
5	LDSN	I	Data strobe	55	IRQ5N	I	Interrupt request
6	A1P	I	Address bus	56	IRQ6N	I	
7	NC		Not used	57	IRQ7N	I	
8	A2P	I	Address bus	58	TXD1P	O	Transmit data (1ch)
9	A3P	I		59	RXD1P	I	Receive data (1ch)
10	NC		Not used	60	NC		Not used
11	A4P	I	Address bus	61	RTS1N	O	Request to send (1ch)
12	NC		Not used	62	NC		Not used
13	NC			63	CTS1N	I	Clear to send (1ch)
14	A5P	I	Address bus	64	NC		Not used
15	VSS		Ground	65	DCD1N	I	Data carrier detect (1ch)
16	NC		Not used	66	VSS		Ground
17	CLKP	I	System clock	67	NC		Not used
18	RW	I	Read / Write	68	TXD2P	O	Transmit data (2ch)
19	NC		Not used	69	RXD2P	I	Receive data (2ch)
20	DTACKN	O	Data acknowledge	70	NC		Not used
21	VSS		Ground	71	RTS2N	O	Request to send (2ch)
22	D0P	I/O	Data bus	72	CTS2N	I	Clear to send (2ch)
23	D1P	I/O		73	DCD2N	I	Data carrier detect (2ch)
24	D2P	I/O		74	NC		Not used
25	NC		Not used	75	TXD3P	O	Transmit data (3ch)
26	NC			76	NC		Not used
27	D3P	I/O	Data bus	77	NC		
28	VSS		Ground	78	RXD3P	I	Receive data (3ch)
29	D4P	I/O	Data bus	79	RTS3N	O	Request to send (3ch)
30	D5P	I/O		80	NC		Not used
31	D6P	I/O		81	CTS3N	I	Clear to send (3ch)
32	D7P	I/O		82	TXD4P	O	Transmit data (4ch)
33	VSS		Ground	83	NC		Not used
34	FC0P	I	Function code	84	RXD4P	I	Receive data (4ch)
35	FC1P	I		85	RTS4N	O	Request to send (4ch)
36	NC		Not used	86	NC		Not used
37	FC2P	I	Function code	87	CTS4N	I	Clear to send (4ch)
38	NC		Not used	88	VDD		Power supply +5V
39	IACKON	O	Interrupt acknowledge	89	NC		Not used
40	VDD		Power supply +5V	90	TXD5P	O	Transmit data (5ch)
41	NC		Not used	91	NC		Not used
42	MODEP	I	CPU select	92	RXD5P	I	Receive data (5ch)
43	NC		Not used	93	TXD6P	O	Transmit data (6ch)
44	IPL0N	O	Interrupt control	94	RXD6P	I	Receive data (6ch)
45	IPL1N	O		95	VSS		Ground
46	IPL2N	O		96	FSP	I	Counter clock
47	IRQ1N	I	Interrupt request	97	XCLK2P	I	Transmission clock
48	IRQ2N	I		98	XCLK1P	I	
49	NC		Not used	99	NC		Not used
50	NC			100	NC		

● **MSM82C51A-2GS-KR1** (XV513A00)
USART (Universal Synchronous Asynchronous receiver Transmitter)

JK1: IC354

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D2	I/O	Data Bus	17	TXRDY	O	Character data
2	D3	I/O	Data Bus	18	SYNDET/BD	I/O	Character data
3	RXD	I	Serial Data	19	/CTS	I	Input terminal for modem interface
4	NC			20	NC		
5	GND		Ground	21	TXEMPTY	O	Character data
6	D4	I/O	Data Bus	22	TXD	O	Character data
7	D5	I/O	Data Bus	23	CLK	I	Clock
8	D6	I/O	Data Bus	24	RESET	I	Reset
9	D7	I/O	Data Bus	25	/DSR	I	Input port for modem interface
10	/TXC	I	Clock	26	/RTS	O	Output port for modem interface
11	/WR	I	Write signal	27	/DTR	O	Output port for modem interface
12	/CS	I	Device select	28	/RXC	I	Clock
13	NC			29	NC		
14	C//D	I	Access select signal	30	VCC	I	Power supply
15	/RD	I	Read signal	31	D0	I/O	Data Bus
16	RXRDY	O	Character data	32	D1	I/O	Data Bus

● **ICS2008A** (XV619A00) **T.C. Reader/Generator**

JK1: IC304

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	INTR	O	Interrupt request	23	CTS	I	Clear to send
2	RESET	I	Master reset	24	TXD	O	UART transmit data
3	FRAME	I	Color frame A / B input	25	RTS	O	Ready to send
4	CLICK	I	LTC SYNC input	26	LRCLK	O	SMPTE LTC receive clock
5	LTCIN-	I	SMPTE LTC input -	27	VITCGATE	O	VITE cord is for video overlay
6	LTCIN+	I	SMPTE LTC input +	28	VITCOUT	O	SMPTE VITE output
7	LTCOUT	O	SMPTE LTC output	29	A0	I	Address bus
8	LFC	I	External RC circuit	30	A1	I	Address bus
9	XTAL2	O	14.318 MHz crystal oscillator	31	/SMPTECS	I	SMPTE port chip select
10	XTAL1	I	14.318 MHz crystal oscillator	32	/UARTSC	I	UART chip select
11	AVDD	-	Analog power supply	33	/IOR	I	Read enable
12	AVSS	-	Analog ground	34	VSS	-	Digital ground
13	COUT	O	C(Chroma) output	35	VDD	-	Digital power supply
14	YOUT	O	Y(Luma) output	36	/IOW	I	Write enable
15	C2	I	C(Chroma) input	37	D0	I/O	Data bus
16	Y2	I	Y(Luma) input	38	D1	I/O	
17	C1	I	C(Chroma) input	39	D2	I/O	
18	Y1	I	Y(Luma) input	40	D3	I/O	
19	STHRESH	I	SYNC threshold bypass input	41	D4	I/O	
20	CTHRESH	I	Clamp threshold bypass input	42	D5	I/O	
21	DTHRESH	I	Data threshold bypass input	43	D6	I/O	
22	RXD	I	UART receive data	44	D7	I/O	

● **CS8420** (XW559A00) **SRC** (Sample Rate Converter)

JK1: IC003-005, 051-053

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	SDA/CDOUT	I/O	Serial control data I/O (I^2C) / data out (SPI)	15	TCBL	I/O	Transmit channel status block start
2	AD0//CS	I	Address bit 0 (I^2C) / Control port chip select (SPI)	16	OSCLK	I/O	Serial audio output port bit clock input or output
3	/EMPH	O	Pre-emphasis indicator output	17	OLRCK	I/O	Serial audio output port left/right clock input or output
4	RXP	I	Differential line receiver inputs	18	SDOUT	O	Serial audio output port data output
5	RXN	I		19	/INT	O	Interrupt output
6	VA+		Positive analog power supply (+5V)	20	U	I/O	User data
7	AGND		Analog ground	21	OMCK	I	Output section master clock input
8	FILT	I/O	PLL loop filter	22	DGND		Digital ground
9	/RST	I	Reset input	23	VD+		Positive digital power supply (+5V)
10	RMCK	O	Input section recovered master clock output	24	H//S	O	Hardware or software control mode select
11	RERR	O	Receiver error indicator	25	TXN	O	Differential line driver outputs
12	ILRCK	I/O	Serial audio input port left/right clock input or output	26	TXP	O	
13	ISCLK	I/O	Serial audio input port bit clock input or output	27	AD1/CDIN	I	Address bit 1 (I^2C) / Serial control data in (SPI)
14	SDIN	I	Serial audio input port data input	28	SCL/CCLK	I	Control port clock

● **XCS40-3PQ240C** (XZ334A00) **FPGA** (Field Programmable Gate Arrays)

DSP: IC056

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	GND		Ground	121	Vcc		Power supply +5V
2	CPUCLK	I/O	Primary global	122	/PROGRAM	I	Active low input
3	/CSIN2	I/O	Unrestricted user-programmable Input/Output pin	123	/CSATSC[3]	I/O	Unrestricted user-programmable Input/Output pin
4	/CSIN3	I/O		124	I/O/PGCK3	I/O	Primary global
5	/RD	I/O		125	/CSATSC[4]	I/O	Unrestricted user-programmable Input/Output pin
6	I/O/TDI	I/O	Test data in (JTAG port)	126	/CSATSC[5]	I/O	
7	I/O/TCK	I/O	Test clock (JTAG port)	127	/CSATSC[6]	I/O	
8	/WRH	I/O	Unrestricted user-programmable Input/Output pin	128	/CSATSC[7]	I/O	
9	/WRL	I/O		129	/CSATSC[8]	I/O	
10	/RES	I/O		130	/CSATSC[9]	I/O	
11	/JK1_WRL	I/O		131	/CSATSC[10]	I/O	
12	/JK1_RD	I/O		132	/CSATSC[11]	I/O	
13	SLOT6_16CH	I/O		133	/CSATSC[12]	I/O	
14	GND		Ground	134	/CSATSC[13]	I/O	
15	SLOT5_16CH	I/O	Unrestricted user-programmable Input/Output pin	135	GND		Ground
16	SLOT4_16CH	I/O		136	256_SLOT6	I/O	Unrestricted user-programmable Input/Output pin
17	I/O/TMS	I/O	Test mode select (JTAG port)	137	WC_SLOT6	I/O	
18	SLOT3_16CH	I/O	Unrestricted user-programmable Input/Output pin	138	256_SLOT3	I/O	
19	Vcc		Power supply +5V	139	WC_SLOT3	I/O	
20	SLOT2_16CH	I/O	Unrestricted user-programmable Input/Output pin	140	Vcc		Power supply +5V
21	SLOT1_16CH	I/O		141	256_SLOT5	I/O	Unrestricted user-programmable Input/Output pin
22	GND		Ground	142	WC_SLOT5	I/O	
23	/CSPER	I/O	Unrestricted user-programmable Input/Output pin	143	GND		Ground
24	/AT1_EN	I/O		144	256_SLOT2	I/O	Unrestricted user-programmable Input/Output pin
25	/AT2_EN	I/O		145	WC_SLOT2	I/O	
26	I/O	I/O		146	256_SLOT4	I/O	
27	I/O	I/O		147	WC_SLOT4	I/O	
28	/CSDSP3	I/O		148	256_SLOT1	I/O	
29	GND		Ground	149	WC_SLOT1	I/O	
30	Vcc		Power supply +5V	150	Vcc		Power supply +5V
31	/CSACIA1	I/O	Unrestricted user-programmable Input/Output pin	151	GND		Ground
32	/CSGPI_RW	I/O		152	/CSSLOT6	I/O	Unrestricted user-programmable Input/Output pin
33	I/O	I/O		153	EXTWC[7]	I/O	
34	ACLK1 (1MHz)	I/O		154	SLOT_48S	I/O	
35	ACLK2 (1.2288MHz)	I/O		155	SLOT_48K	I/O	
36	I/O	I/O		156	/CSSLOT3	I/O	
37	GND		Ground	157	EXTWC[4]	I/O	
38	I/O	I/O	Unrestricted user-programmable Input/Output pin	158	GND		Ground
39	/CSDSP2	I/O		159	/CSSLOT5	I/O	Unrestricted user-programmable Input/Output pin
40	Vcc		Power supply +5V	160	EXTWC[6]	I/O	
41	/CSDIT_RW	I/O	Unrestricted user-programmable Input/Output pin	161	Vcc		Power supply +5V
42	/CSJK1	I/O		162	SLOT_12M	I/O	Unrestricted user-programmable Input/Output pin
43	/CSJK	I/O		163	/CSSLOT2	I/O	
44	I/O	I/O		164	EXTWC[3]	I/O	
45	GND		Ground	165	/CSSLOT4	I/O	
46	ANA256FS	I/O	Unrestricted user-programmable Input/Output pin	166	GND		Ground
47	DOUBLE	I/O		167	EXTWC[5]	I/O	Unrestricted user-programmable Input/Output pin
48	K48K96	I/O		168	SLOT_6M	I/O	
49	/CSDSP1	I/O		169	SLOT_3M	I/O	
50	I/O	I/O		170	/CSSLOT1	I/O	
51	EXTWC[10]	I/O		171	EXTWC[2]	I/O	
52	EXTWC[11]	I/O		172	/CSSLOT	I/O	
53	EXTWC[12]	I/O		173	I/O	I/O	
54	TRRERR[1]	I/O		174	DIR2XI	I/O	
55	TRRERR[2]	I/O		175	I/O	I/O	
56	TRRERR[3]	I/O		176	I/O	I/O	
57	I/O/SGCK2	I/O	Secondary global	177	I/O (DIN)	I/O	Serial configuration data input
58	NC		Not used	178	I/O/SGCK4 (DOUT)	I/O	Secondary global / Serial configuration data output
59	GND		Ground	179	CCLK	I	Configuration clock
60	MODE	I	Master/Slave mode selection	180	Vcc		Power supply +5V
61	Vcc		Power supply +5V	181	O/TDO	O	Test data output
62	NC		Not used	182	GND		Ground
63	I/O/PGCK2	I/O	Primary global	183	CINPCPOUT	I/O	Unrestricted user-programmable Input/Output pin
64	I/O (HDC)	I/O	High during configuration	184	I/O/PGCK4	I/O	Primary global
65	NORMAL_WC	I/O	Unrestricted user-programmable Input/Output pin	185	DIRMCA	I/O	Unrestricted user-programmable Input/Output pin
66	I/O	I/O		186	DIRMCB	I/O	
67	I/O	I/O		187	DIRWC	I/O	
68	I/O (/LDC)	I/O	Low during configuration	188	DIRMCC	I/O	
69	/JK1WAIT	I/O	Unrestricted user-programmable Input/Output pin	189	DIRSYNC	I/O	
70	I/O	I/O		190	DIRWCSEL	I/O	
71	/MLOCKSEL	I/O		191	CIN256FS	I/O	
72	/LOCKRTN	I/O		192	CINPLLOUT	I/O	
73	/LOCK	I/O		193	CINWC	I/O	
74	/DIRLOCK	I/O		194	EXTWC[1]	I/O	
75	GND		Ground	195	NC		Not used
76	PLLOUT	I/O	Unrestricted user-programmable Input/Output pin	196	GND		Ground
77	EXTWCSEL	I/O		197	EXTWC[8]	I/O	Unrestricted user-programmable Input/Output pin
78	PCPOUT	I/O		198	EXTWC[9]	I/O	
79	MWC	I/O		199	CIN48K96K	I/O	
80	Vcc		Power supply +5V	200	CINPLLINH	I/O	
81	MSYNC	I/O	Unrestricted user-programmable Input/Output pin	201	Vcc		Power supply +5V
82	M64FS	I/O		202	DT[0]	I/O	Unrestricted user-programmable Input/Output pin
83	GND		Ground	203	DT[1]	I/O	
84	M128FS	I/O	Unrestricted user-programmable Input/Output pin	204	GND		Ground
85	M256FS	I/O		205	DT[2]	I/O	Unrestricted user-programmable Input/Output pin
86	MUTEIN	I/O		206	DT[3]	I/O	
87	MUTEOUT	I/O		207	DT[4]	I/O	
88	/CSDSP6[1]	I/O		208	DT[5]	I/O	
89	I/O (/INIT)	I/O	Bidirectional signal	209	DT[6]	I/O	
90	Vcc		Power supply +5V	210	DT[7]	I/O	
91	GND		Ground	211	GND		Ground
92	/CSDSP6[2]	I/O	Unrestricted user-programmable Input/Output pin	212	Vcc		Power supply +5V
93	/CSDSP6[3]	I/O		213	DT[8]	I/O	Unrestricted user-programmable Input/Output pin
94	/CSDSP6[4]	I/O		214	DT[9]	I/O	
95	/CSDSP6[5]	I/O		215	DT[10]	I/O	
96	/CSDSP6[6]	I/O		216	DT[11]	I/O	
97	/CSDSP6[7]	I/O		217	DT[12]	I/O	
98	GND		Ground	218	DT[13]	I/O	
99	/CSDSP6[8]	I/O	Unrestricted user-programmable Input/Output pin	219	GND		Ground
100	/CSDSP7[1]	I/O		220	DT[14]	I/O	Unrestricted user-programmable Input/Output pin
101	Vcc		Power supply +5V	221	DT[15]	I/O	
102	/CSDSP7[2]	I/O	Unrestricted user-programmable Input/Output pin	222	Vcc		Power supply +5V
103	/CSDSP7[3]	I/O		223	AD[16]	I/O	Unrestricted user-programmable Input/Output pin
104	/CSDSP7[4]	I/O		224	/JK1_WRH	I/O	
105	/CSDSP7[5]	I/O		225	AD[1]	I/O	
106	GND		Ground	226	AD[2]	I/O	
107	/CSDSP7[6]	I/O	Unrestricted user-programmable Input/Output pin	227	GND		Ground
108	/CSDSP7[7]	I/O		228	AD[3]	I/O	Unrestricted user-programmable Input/Output pin
109	/CSDSP7[8]	I/O		229	AD[4]	I/O	
110	/CSDSP7[9]	I/O		230	AD[5]	I/O	
111	/CSDSP7[10]	I/O		231	AD[6]	I/O	
112	/CSDSP7[11]	I/O		232	AD[7]	I/O	
113	/CSDSP7[12]	I/O		233	AD[8]	I/O	
114	/CSDSP7[13]	I/O		234	AD[11]	I/O	
115	/CSDSP7[14]	I/O		235	AD[12]	I/O	
116	/CSATSC[1]	I/O		236	AD[13]	I/O	
117	/CSATSC[2]	I/O		237	AD[14]	I/O	
118	I/O/SGCK3	I/O	Secondary global	238	AD[15]	I/O	
119	GND		Ground	239	I/O/SGCK1	I/O	Secondary global
120	DONE	O	Bidirectional signal	240	Vcc		Power supply +5V

● S1D13305F00B100 (XQ595A00) LCDC (LCD Controller)

CPU: IC129

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VA5	O	VRAM address bus	31	XD2	O	Data bus output for 4 bit dot
2	VA4	O		32	XD1	O	
3	VA3	O		33	XD0	O	
4	VA2	O		34	XECL	O	S driver enable, chain clock
5	VA1	O		35	XSCL	O	Data bus shift clock
6	VA0	O		36	Vss	-	Ground
7	/VWR	O	VRAM read/write	37	LP	O	X driver latch pulse
8	/VCE	O	Memory control	38	WF	O	Frame signal for X/Y driver
9	/VRD	-	Not used	39	YDIS	O	Power down signal for displaying off mode
10	/RES	I	Initial clear	40	YD	O	Scan start signal
11	NC	-	Not used	41	YSCL	O	Scan shift clock
12	NC	-	Not used	42	VD7	I/O	VRAM data bus
13	/RD	I	Read strobe	43	VD6	I/O	
14	/WR	I	Write strobe	44	VD5	I/O	
15	SEL2	I	Bus select	45	VD4	I/O	
16	SEL1	I	Bus select	46	VD3	I/O	
17	OSC1	I	Clock	47	VD2	I/O	
18	OSC2	O	Clock	48	VD1	I/O	
19	/CS	I	Chip select	49	VD0	I/O	
20	A0	I	Data mode select	50	VA15	O	VRAM address bus
21	Vdd	-	Power supply	51	VA14	O	
22	D0	I/O	Data bus	52	VA13	O	
23	D1	I/O		53	VA12	O	
24	D2	I/O		54	VA11	O	
25	D3	I/O		55	VA10	O	
26	D4	I/O		56	VA9	O	
27	D5	I/O		57	VA8	O	
28	D6	I/O		58	VA7	O	
29	D7	I/O		59	VA6	O	
30	XD3	O	Data bus output for 4 bit dot	60	NC	-	Not used

● AK4393-VF-E2 (XW029A00) DAC (Digital to Analog Converter)

DA1: IC903-906
DA2: IC903-906

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DVSS	-	Digital ground	15	BVSS	-	Substrate ground
2	DVDD	-	Digital power supply	16	VREFL	I	Low level voltage reference
3	MCLK	I	Master clock	17	VREFH	I	High level voltage reference
4	/PD	I	Power down mode	18	AVDD	-	Analog power supply +5 V
5	BICK	I	Audio serial data clock	19	AVSS	-	Analog ground
6	SDATA	I	Audio serial data input	20	AOUTR-	O	Rch negative analog output
7	LRCK	I	L/R clock	21	AOUTR+	O	Rch positive analog output
8	SMUTE//CS	I	Soft mute	22	AOUTL-	O	Lch negative analog output
9	DFS	I	Double speed sampling mode	23	AOUTL+	O	Lch positive analog output
10	DEM0/CCLK	I	De-emphasis enable	24	VCOM	O	Common voltage output
11	DEM1/CDTI	I		25	P//S	I	Parallel/serial select
12	DIF0	I	Digital input format	26	CKS0	I	Master clock select
13	DIF1	I		27	CKS1	I	
14	DIF2	I		28	CKS2	I	

● AK5393-VS-E2 (XZ298A00) ADC (Analog to Digital Converter)

AD: IC103, 203, 303, 403, 503, 603
DA2: IC951-953

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VREFL	O	Lch voltage reference output	15	SDATA	O	Serial data output
2	GNDL		Lch ground	16	FSYNC	I/O	Frame synchronization clock
3	VCOML	O	Lch common voltage	17	MCLK	I	Master clock input
4	AINL+	I	Lch positive analog input	18	DFS	I	Double speed sampling mode select
5	AINL-	I	Lch negative analog input	19	HPFE	I	HPF enable
6	ZCAL	I	Zero calibration	20	TEST	I	Test
7	VD		Digital power supply +3.3V	21	BGND		Substrate ground
8	DGND		Digital ground	22	AGND		Analog ground
9	CAL	O	Calibration status	23	VA		Analog power supply +5V
10	/RST	I	Reset	24	AINR-	I	Rch negative analog input
11	SMODE2	I	Serial interface mode select	25	AINR+	I	Rch positive analog input
12	SMODE1	I		26	VCOMR	O	Rch common voltage
13	LRCK	I/O	L/R channel select clock	27	GNDR		Rch ground
14	SCLK	I/O	Serial data clock	28	VREFR	O	Rch voltage reference output

IC BLOCK DIAGRAM

DM2000

- **TC74VHC00F** (XT229A00)

  CPU: IC133
  DSP: IC058 ,704

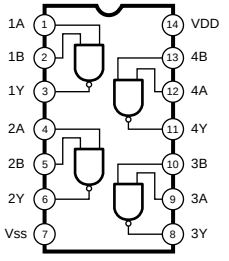
- **MM74HC00SJX** (XW105A00)

  FD1: IC138
  FD2: IC127

- **HD74LV00AFPEL** (IS000000)

  SUB: IC113

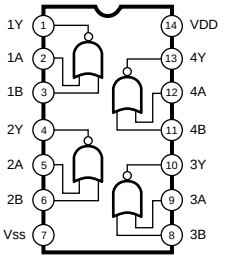
  Quad 2 Input NAND



- **TC74VHC02F** (XT230A00)

  JK1: IC353

  Quad 2 Input NOR



- **TC74VHC04F (EL)** (XM332A00)

  CPU: IC132
  DSP: IC702
  JK1: IC409, 410
  DS: IC005

- **HD74LV04AFPEL** (IS000400)

  SUB: IC137

- **HD74LVU04AFPEL** (XY102A00)

  SUB: IC117

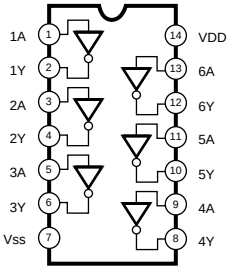
- **SN74HCU04NSR** (XW842A00)

  JK1: IC001, 352

- **HD74LS06FPEL** (XH610A00)

  FD1: IC130-132
  FD2: IC120, 121

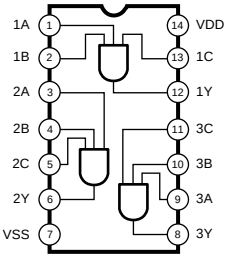
  Hex Inverter



- **TC74VHC11F (EL)** (XT812A00)

  DSP: IC429-432

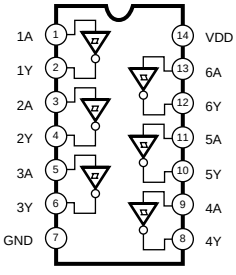
  Triple 3 Input AND



- **TC74VHC14F-EL** (XW876A00)

  DSP: IC057, 073
  JK1: IC459
  JK2: IC701

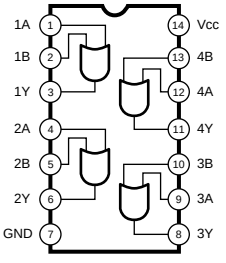
  Hex Inverter



- **TC74VHC32F (EL)** (XY537A00)

  CPU: IC136, 141
  DSP: IC955
  DS: IC001, 006

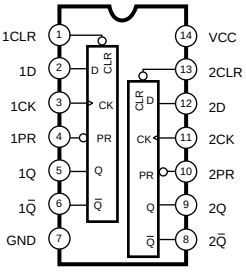
  Quad 2 Input OR



- **TC74VHC74F-EL** (XW875A00)

  DSP: IC128
  JK1: IC055

  Dual D-Type Flip-Flop



INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	f	H	H	L
H	H	f	L	L	H
H	H	L	X	Q₀	Q₀

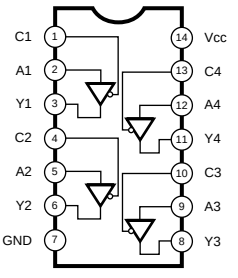
- **TC74VHC125F** (XW313A00)

  DSP: IC705
  JK1: IC351

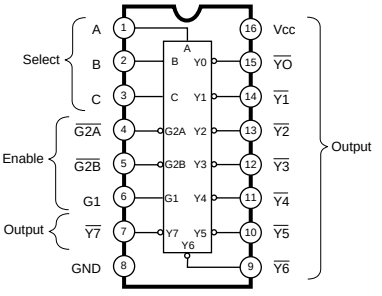
- **HD74LV125AFPEL** (IS012500)

  SUB: IC112

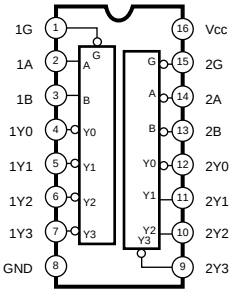
  Quad 3-State Bus Buffer



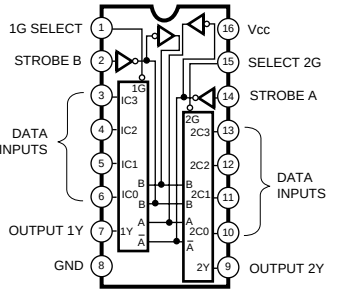
- **SN74LV138ANSR** (IS013810)
  SUB: IC118
- **TC74HC138AFEL** (XW762A00)
  SUB: IC125, 129
- **TC74HC138F** (XT015A00)
  JK1: IC402
  JK2: IC905
  3 to 8 Demultiplexer



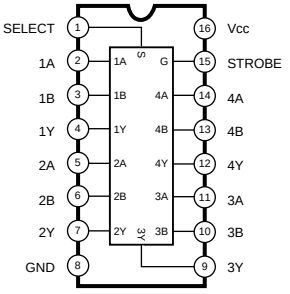
- **TC74VHC139F (EL)** (XW324A00)
  CPU: IC125
  JK1: IC401
  Dual 2 to 4 Demultiplexer



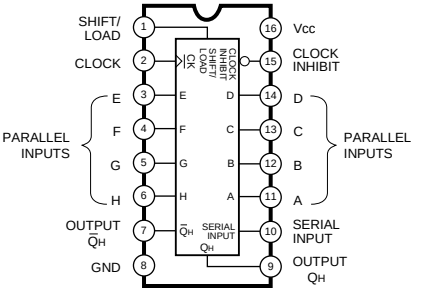
- **TC74VHC153F** (XV794A00)
  JK1: IC054, 056, 057
  Dual 4 to 1 Data Selectors



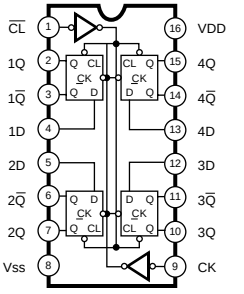
- **TC74VHC157F (EL)** (XT475A00)
  DSP: IC609-614, 656-661
  Quad 2 to 1 Multiplexer



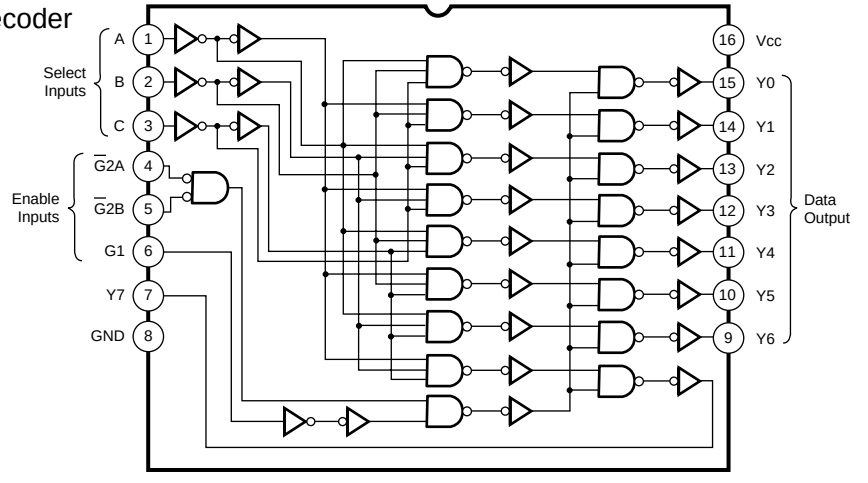
- **HD74LV165AFPEL** (IS016500)
  PN1: IC105-107
  PN2: IC303, 304
  PN3: IC507-509
  8-Bit Shift Register

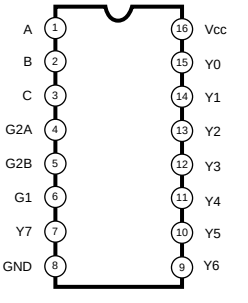


- **HD74LV175AFPEL** (IS017500)
  JK2: IC802
  Quad D-Type Flip-Flop



- **TC74HC238AF** (XT163A00)
  PN1: IC102
  PN2: IC309, 310
  PN3: IC502
  3 to 8 Line Decoder

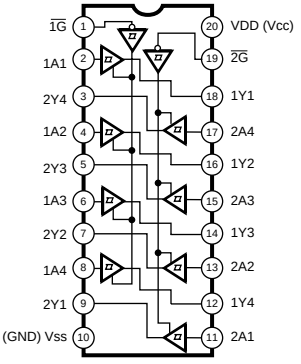




- **TC74VHC244F** (XT800A00)

CPU: IC118
DSP: IC904, 905
JK1: IC455, 458
JK2: IC903, 904
DS: IC003

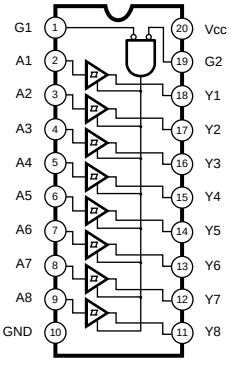
Octal 3-State Bus Buffer



- **74VHC541SJX** (XY961A00)

DSP: IC001, 070-072, 126, 803, 806, 853-855, 903, 908, 909, 951, 952

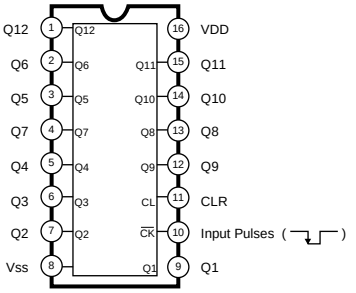
Octal 3-State Buffer



- **SN74LV4040ANSR** (IS404010)

DSP: IC701

12-Stage Binary Ripple Counter



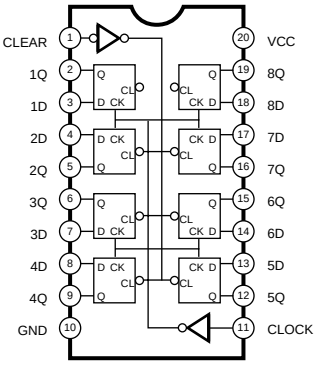
- **MM74HC273SJX** (XY198A00)

FD1: IC104-109
FD2: IC104-107

- **TC74VHC273F (EL)** (XY254A00)

JK1: IC405-408
JK2: IC801, 913
DS: IC004

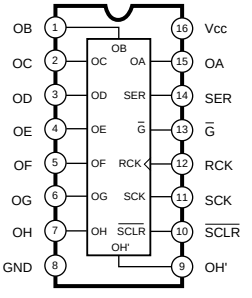
Octal D-Type Flip-Flop



- **HD74LV595AFPEL** (IS059500)

PN1: IC103, 104
PN2: IC305-308
PN3: IC503-506

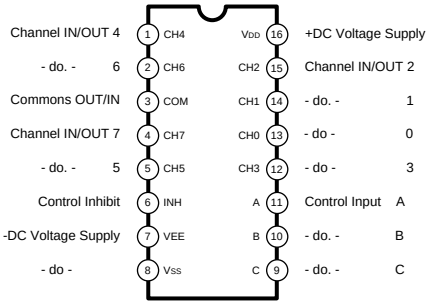
8-Bit Shift Register with Output Latches



- **HD74LV4051AFPEL** (IS405100)

FD1: IC139, 140
FD2: IC128, 129

Single 8-channel Multiplexer/Demultiplexer



- **HD74LV245AFPEL** (IS024500)

SUB: IC102, 106

- **TC74HC245AF** (XS720A00)

AD: IC001, 002
DA1: IC901, 902
DA2: IC901, 902
FD1: IC101-103
FD2: IC101-103
PN1: IC101
PN2: IC301, 302
PN3: IC501
SUB: IC114, 124, 126, 128, 131-134, 138

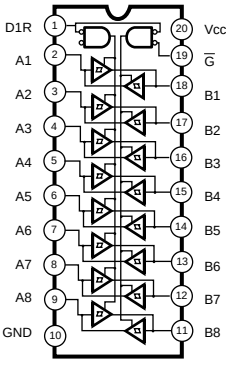
- **TC74VHC245F** (XT487A00)

CPU: IC115-117, 119-121, 126, 134, 135
DSP: IC005-009, 013-020, 052-054, 067-069, 127, 425-428, 606-608, 615-620, 802, 805, 852, 901
JK1: IC403, 451-454, 456, 457
JK2: IC803, 901, 902, 906-912
DS: IC002

- **TC74VHCT245AF** (XV242A00)

CPU: IC112, 131
DSP: IC002-004, 023-027, 055, 801, 804, 851, 902, 906, 907, 953

Octal 3-State Bus Transceiver



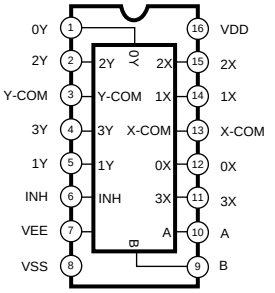
- **SN74LV4052ANSR** (IS405210)

SUB: IC130

- **TC74HC4052AF** (XS790A00)

FD1: IC110, 111
FD2: IC108

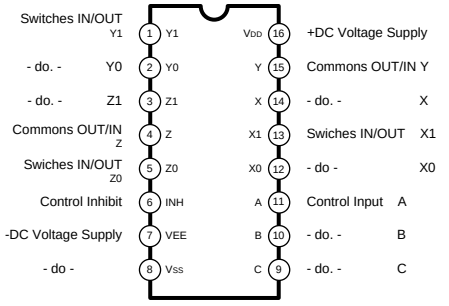
Differential 4-channel Multiplexer/Demultiplexer



- **HD74LV4053AFPEL** (IS405300)

  DSP: IC060, 062
  JK2: IC752, 753

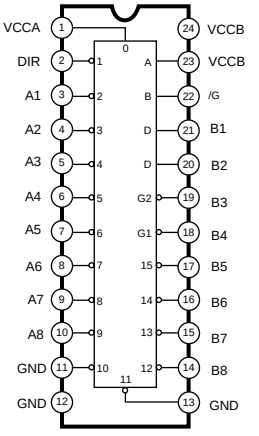
  Triple 2-Channel Multiplexer/Demultiplexer



- **TC74LVX4245FS** (XU229A00)

  CPU: IC127
  DSP: IC010, 011, 021, 022, 028-031

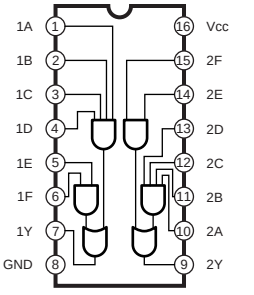
  Dual Supply Octal Bus Transceiver



- **SN75121NSR** (XU816A00)

  JK1: IC151

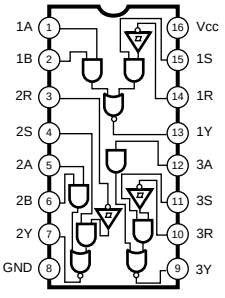
  Dual Line Driver



- **SN75124NSR** (XV930A00)

  JK1: IC101

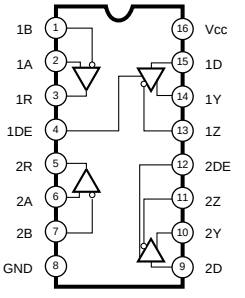
  Triple Line Receiver



- **SN75C1168NSR** (XU073A00)

  JK2: IC751, 851

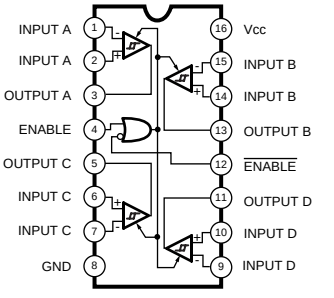
  Line Driver/Receiver



- **DS26C32ATMX** (XU815A00)

  JK1: IC252
  JK2: IC502-505, 605

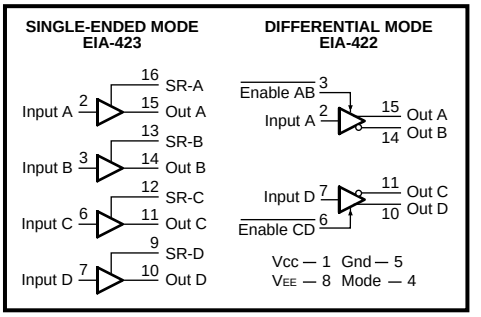
  Quad Differential Line Receiver

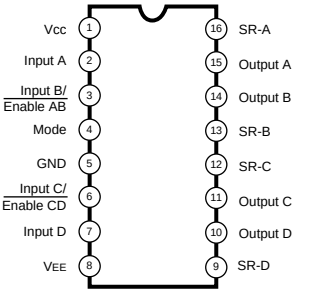


- **MC26LS30DR2** (XL334A00)

  JK1: IC251

  Line Driver





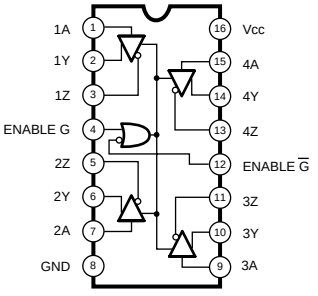
Operation	Vcc	VEE	Inputs Mode	A	B	C	D	Outputs A	B	C	D
Differential (EIA-422-A)	+5.0	GND	0	0	0	0	0	0	1	1	0
			0	1	0	0	1	1	0	0	1
			0	X	1	0	1	Z	Z	0	1
			0	1	0	0	0	1	0	1	0
			0	0	0	0	1	0	1	0	1
			0	1	0	1	X	1	0	Z	Z
Single-Ended (EIA-423-A)	+5.0	-5.0	1	0	0	0	0	0	0	0	0
			1	1	0	0	0	1	0	0	0
			1	0	1	0	0	0	1	0	0
			1	0	0	1	0	0	0	1	0
			1	0	0	0	1	0	0	0	1
X	0	X	X	X	X	X	X	Z	Z	Z	Z

X = Don't Care
Z = High Impedance (Off)

- **AM26LS31CNSR** (XU996A00)

  JK2: IC501, 601-604

  Quad Line Driver



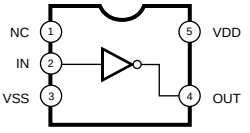
INPUT	ENABLES		OUTPUTS	
A	G	$\overline{G}$	Y	Z
H	H	X	H	L
L	H	X	L	H
H	X	L	H	L
L	X	L	L	H
X	L	H	Z	Z

H= high level
L= low level
X= irrelevant
Z= high impedance (off)

- **TC7S04F** (XM182A00)

  AD: IC003
  DA1: IC900
  DA2: IC911

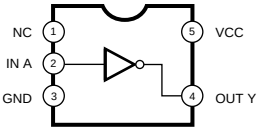
  Inverter Gate



- **TC7SH04FU** (XS775A00)

  CPU: IC122
  DSP: IC012, 066

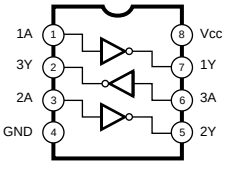
  Inverter Gate



- **TC7W04FU** (XP004A00)

  PN3: IC510

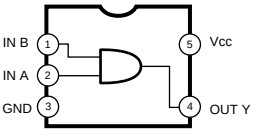
  Triple Inverter



- **TC7SH08FU** (XR680A00)

  CPU: IC123, 137

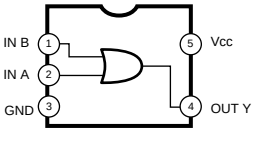
  2 Input AND Gate



- **TC7SH32FU (TE85L)** (XW633A00)

  DSP: IC051

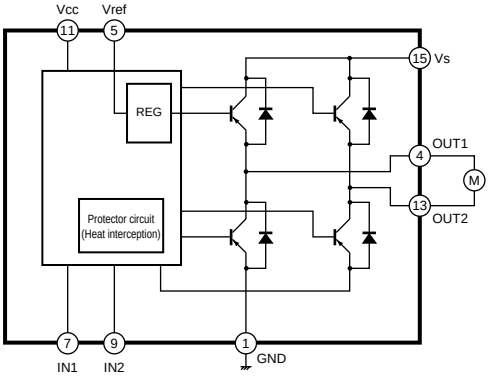
  Input OR Gate

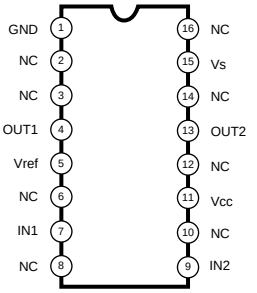


- **TA7291F** (XW618A00)

  FD1: IC114-129
  FD2: IC111-119

  Motor Driver

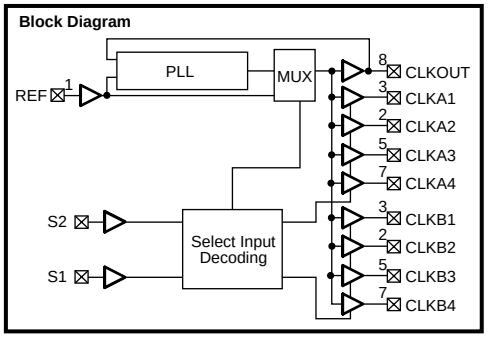


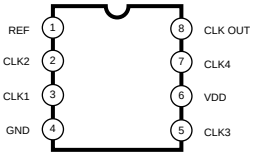


- **CY2305** (XY937A00)

  CPU: IC114

  Clock Buffer



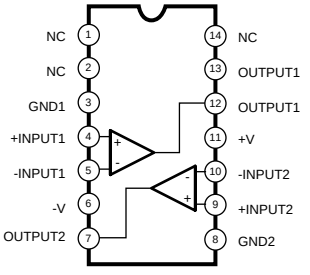


Pin No.	Signal	Function
1	REF	Input reference frequency, 5V-tolerant input
2	CLK2	Buffered clock output
3	CLK1	Buffered clock output
4	GND	Ground
5	CLK3	Buffered clock output
6	VDD	3.3V supply
7	CLK4	Buffered clock output
8	CLKOUT	Buffered clock output, internal feedback on this pin

- **UPC319G2** (IG156700)

  JK: IC303

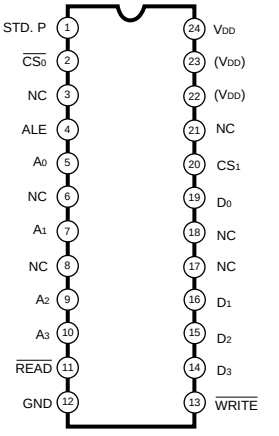
  Voltage Comparator



- **RTC-62423** (X0333A00)

  CPU: IC128

  Real Time Clock



- **NJM2068V (TE1)** (XT618A00)

  FD1: IC133-136
  FD2: IC122-125

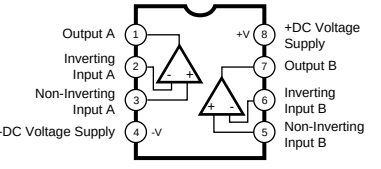
- **NJM4560M (T1)** (XA862B00)

  JK1: IC302

- **µPC4570G2** (XF291A00)

  AD: IC101, 102, 201, 202, 301, 302, 401, 402, 501, 502, 601, 602
  DA1: IC101, 201, 301, 401, 501, 601, 701, 801
  DA2: IC101, 102, 151, 201, 251, 301, 351, 401, 451, 501, 551, 601, 701, 801

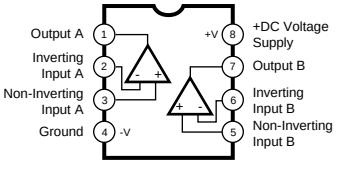
  Dual Operational Amplifier



- **NJM2904V (TE1)** (XR532A00)

  CPU: IC139
  FD1: IC112, 113, 137
  FD2: IC109, 110, 126
  SUB: IC136

  Dual Operational Amplifier



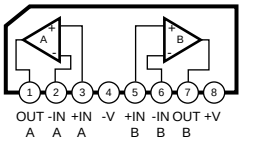
- **NJM2068L-D** (XM356A00)

  2TRI: IC101, 102 PHN: IC202
  ANI: IC100, 102, 103
  SML: IC302 STD: IC302

- **NJM4556AL** (XP844A00)

  PHN: IC201 ANI: IC101
  DA1: IC102, 202, 302, 402, 502, 602, 702, 802
  LRG: IC101, 201 SML: IC301, 401
  ST: IC101, 201 STD: IC301, 401

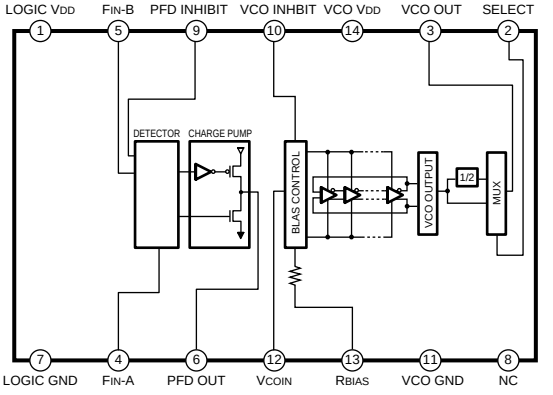
  Dual Operational Amplifier

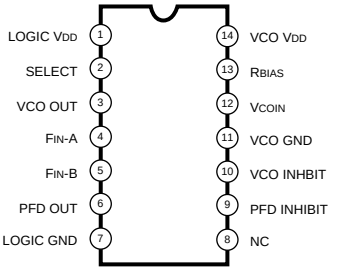


- **TLC2932IPWR** (XV064A00)

  DSP: IC061, 063

  PLL

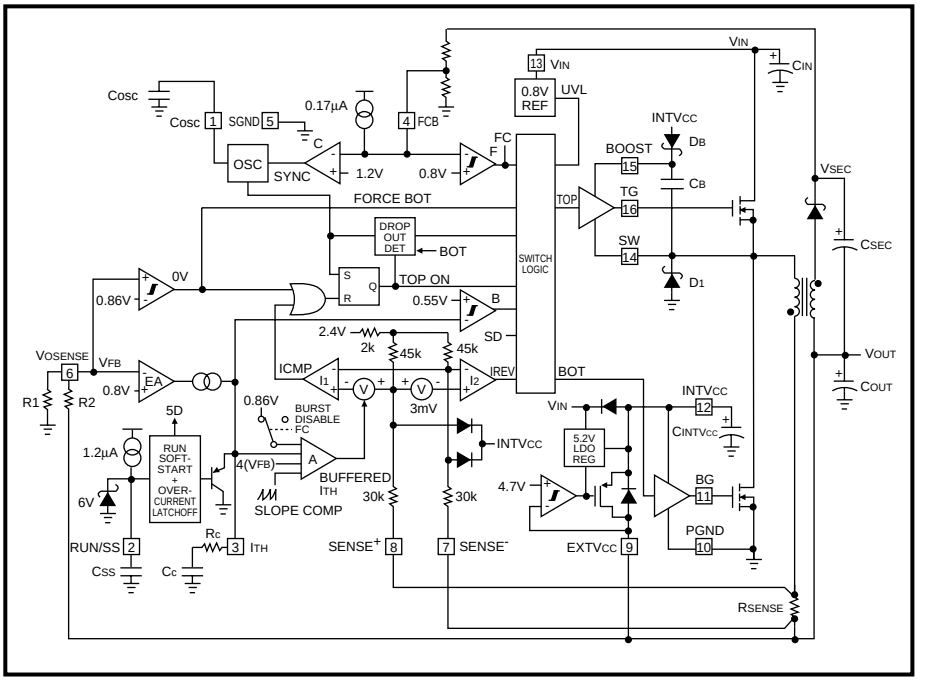


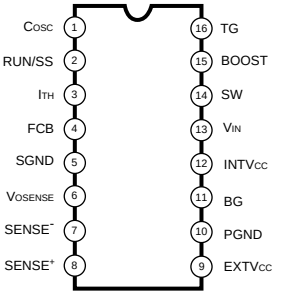


- **LTC1735CS** (X2005A00)

  BRG: IC003
  DSP: IC961, 962

  DC-DC Converter



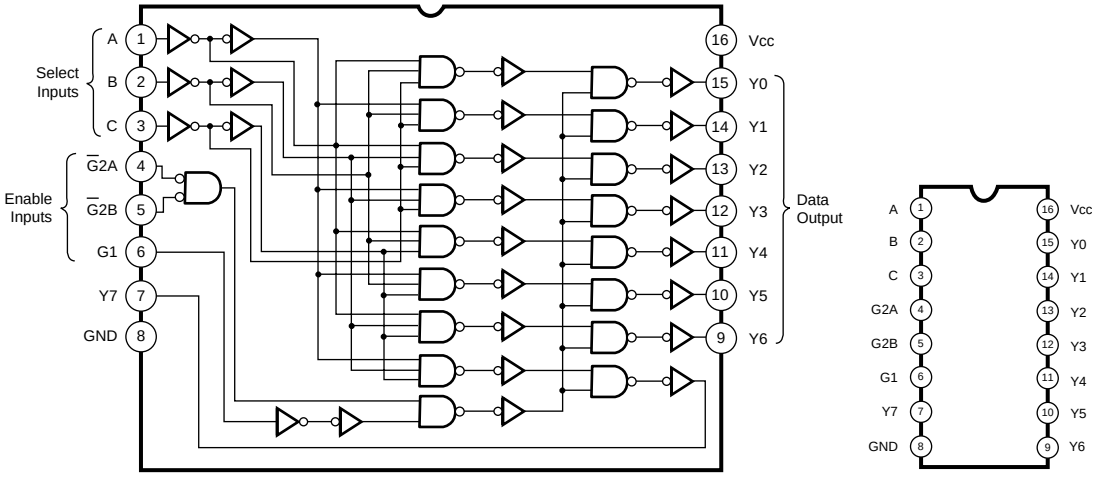


MB2000

- **TC74HC238AF** (XT163A00)

  PN2: IC214

  3 to 8 Line Decoder



- **SN74HC245NSR** (XD838A00)

  PN2: IC213

- **TC74HC245AF** (XS720A00)

  PN1: IC101

  Octal 3-State Bus Transceiver

- **SN75C1168N** (XU463A00)

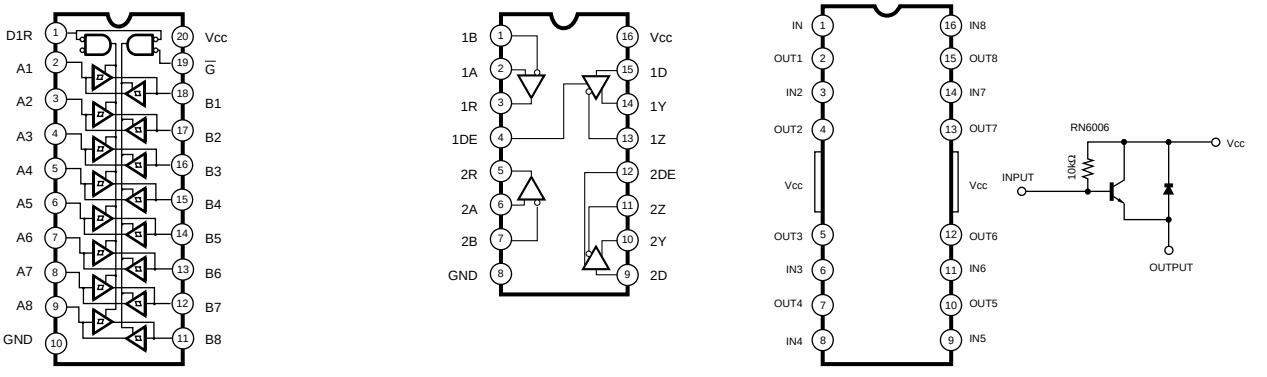
  DC: IC303

  Line Driver/Receiver

- **TD62M8600F** (XV014A00)

  PN1: IC102, 106, 110
  PN2: IC201, 205

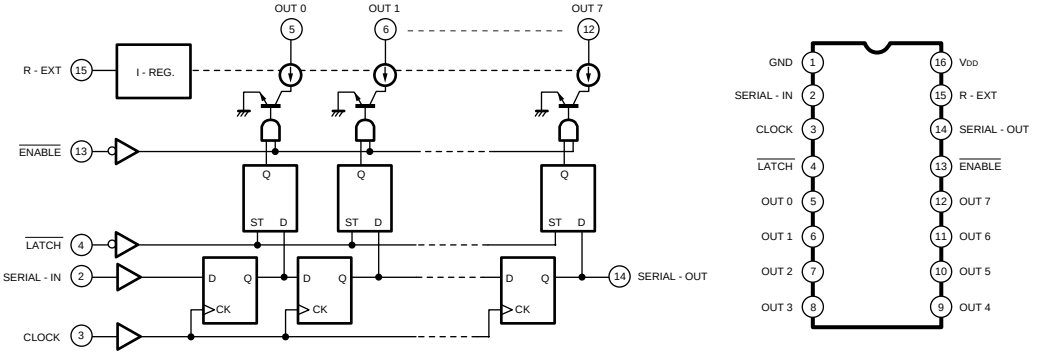
  Source Driver



- **TB62705CF (EL)** (XV013A00)

  PN1: IC103-105, 107-109
  PN2: IC202-204, 206-208

  LED Driver



CIRCUIT BOARDS

• DM2000

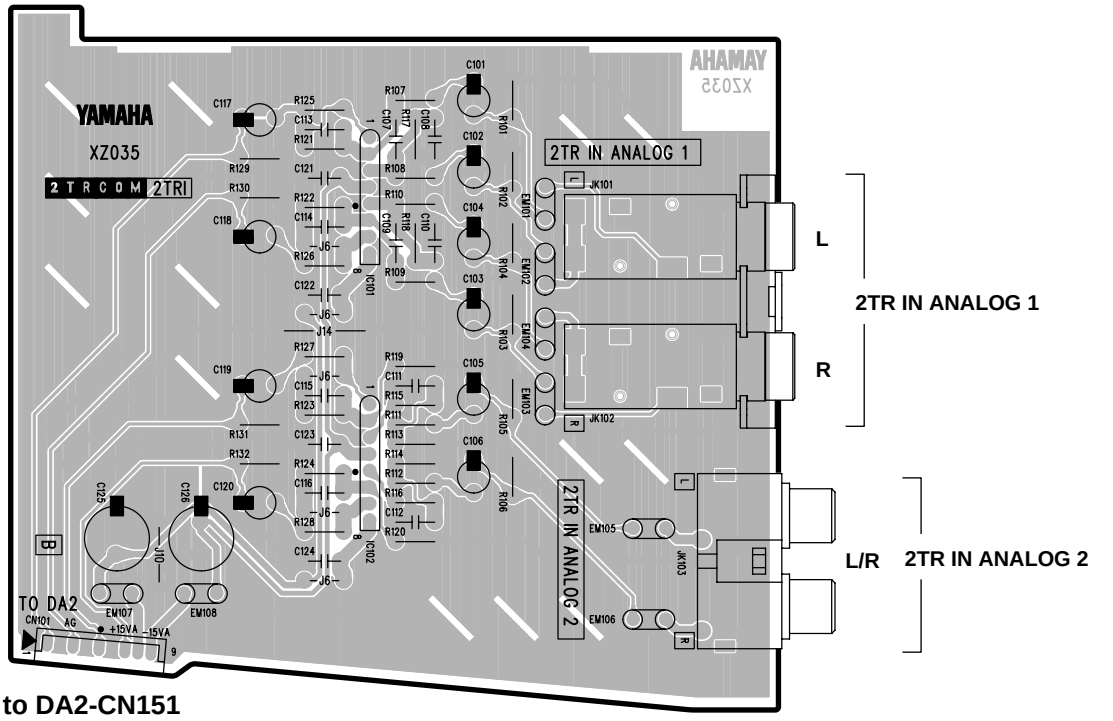
2TRCOM (2TRI) Circuit Board (XZ035B0) 78
2TRCOM (PHN) Circuit Board (XZ035B0) 79
AD Circuit Board (XZ020B0) 80/82
ANI Circuit Board (XZ032B0) 84
BRG Circuit Board (XZ031C0) 86/88
CPU Circuit Board (X0383B0) 90/91
CRCOM (LRG) Circuit Board (XZ033A0) 92
CRCOM (SML) Circuit Board (XZ033A0) 93
DA1 Circuit Board (XZ021B0) 94/95
DA2 Circuit Board (XZ022B0) 96/97
DSP Circuit Board (XZ018B0) 98/100
FD1 Circuit Board (XZ029B0) 102/104
FD2 Circuit Board (XZ030B0) 106/107
JK1 Circuit Board (XZ024B0) 108/110
JK2 Circuit Board (XZ025B0) 112
LCDCOM (CNT) Circuit Board (X2160B0) 85
LCDCOM (INV) Circuit Board (X2160B0) 85
OPT Circuit Board (XZ023B0) 114
PN1 Circuit Board (XZ026B0) 116/118
PN2 (1/2) Circuit Board (XZ027B0) 120/122
PN2 (2/2) Circuit Board (XZ027B0) 121/122
PN3 Circuit Board (XZ028B0) 124/126
PN4COM (PN4 (1/2)) Circuit Board (XZ219B0) 128/129
PN4COM (PN4 (2/2)) Circuit Board (XZ219B0) 128/129
PN4COM (DS) Circuit Board (XZ219B0) 128/129
STCOM (ST) Circuit Board (XZ034A0) 130
STCOM (STD) Circuit Board (XZ034A0) 131
SUB Circuit Board (XZ019B0) 132/134
SW Circuit Board (X2215B0) 136

• MB2000

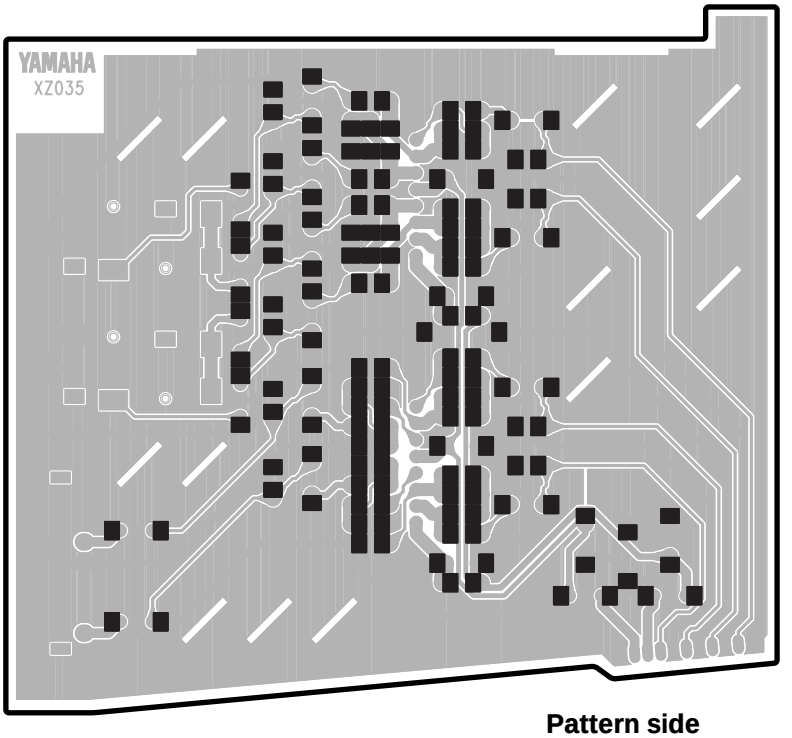
DC Circuit Board (XZ038B0) 137
PNCOM (PN1) Circuit Board (XZ036B0) 138
PNCOM (PN2) Circuit Board (XZ036B0) 140

Note: See parts list for details of circuit board component parts.

• 2TRCOM (2TRI) Circuit Board



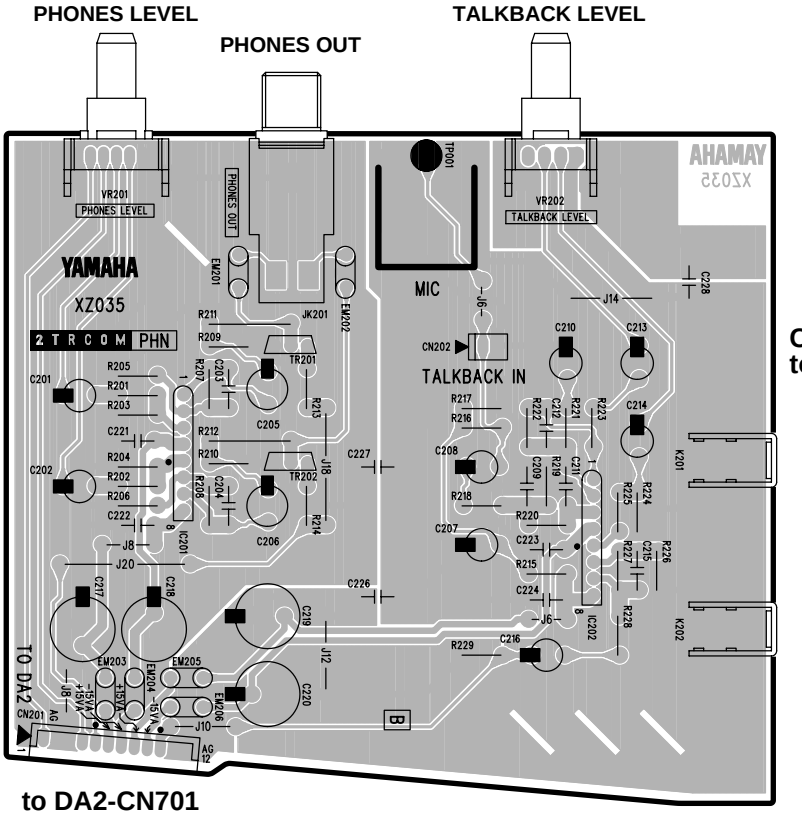
Component side



Pattern side

3NA-V628810-1 /2

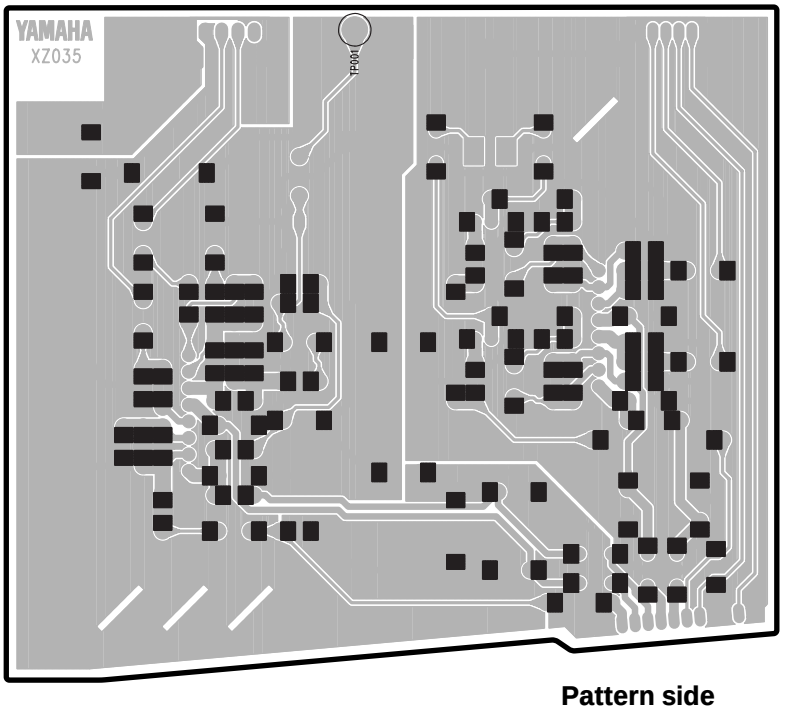
• 2TRCOM (PHN) Circuit Board



CN202:
to TALKBACK MIC

to DA2-CN701

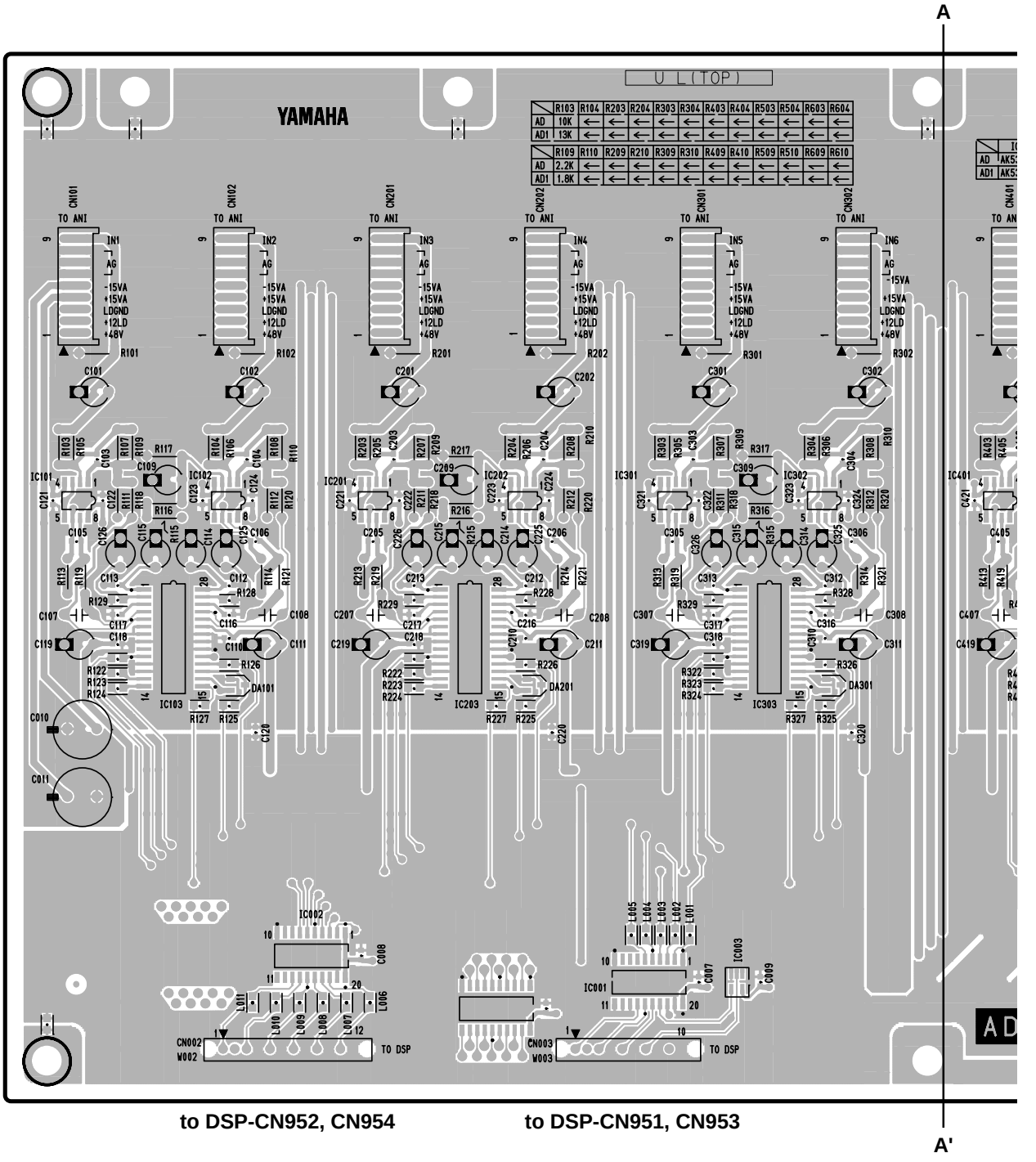
Component side



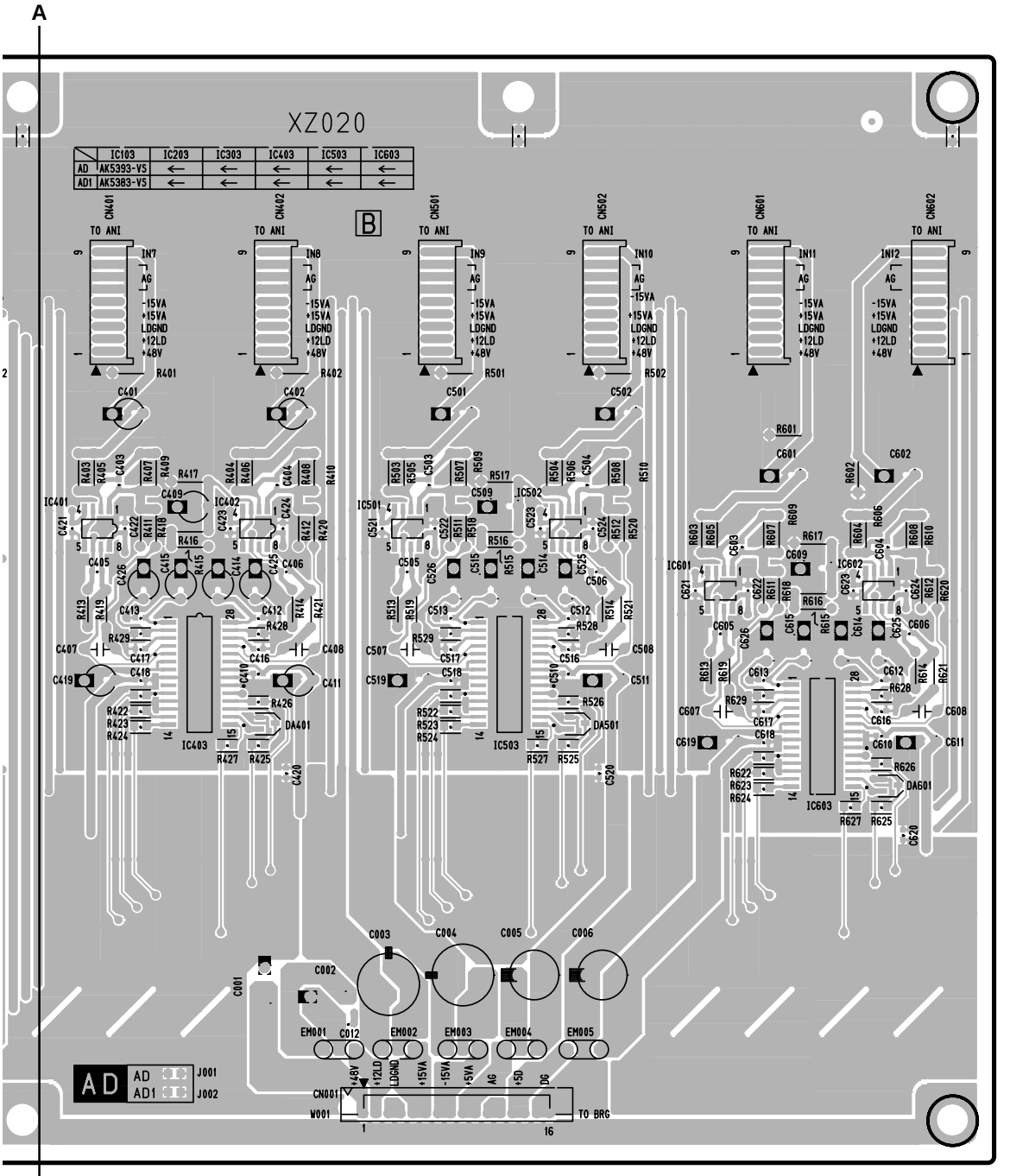
Pattern side

3NA-V628810-1 ⚠2

• AD Circuit Board



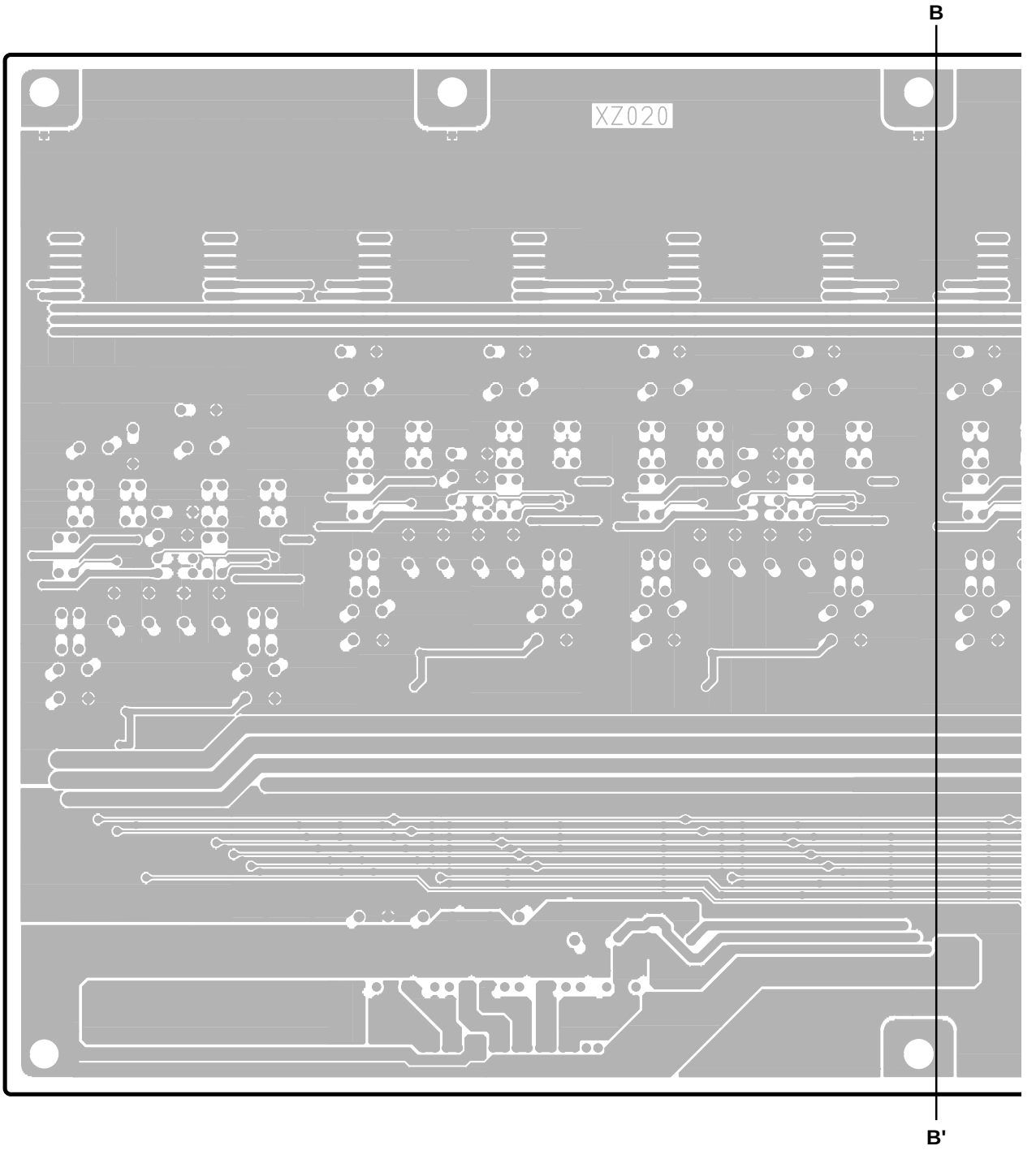
3NA-V628540-2 /1\



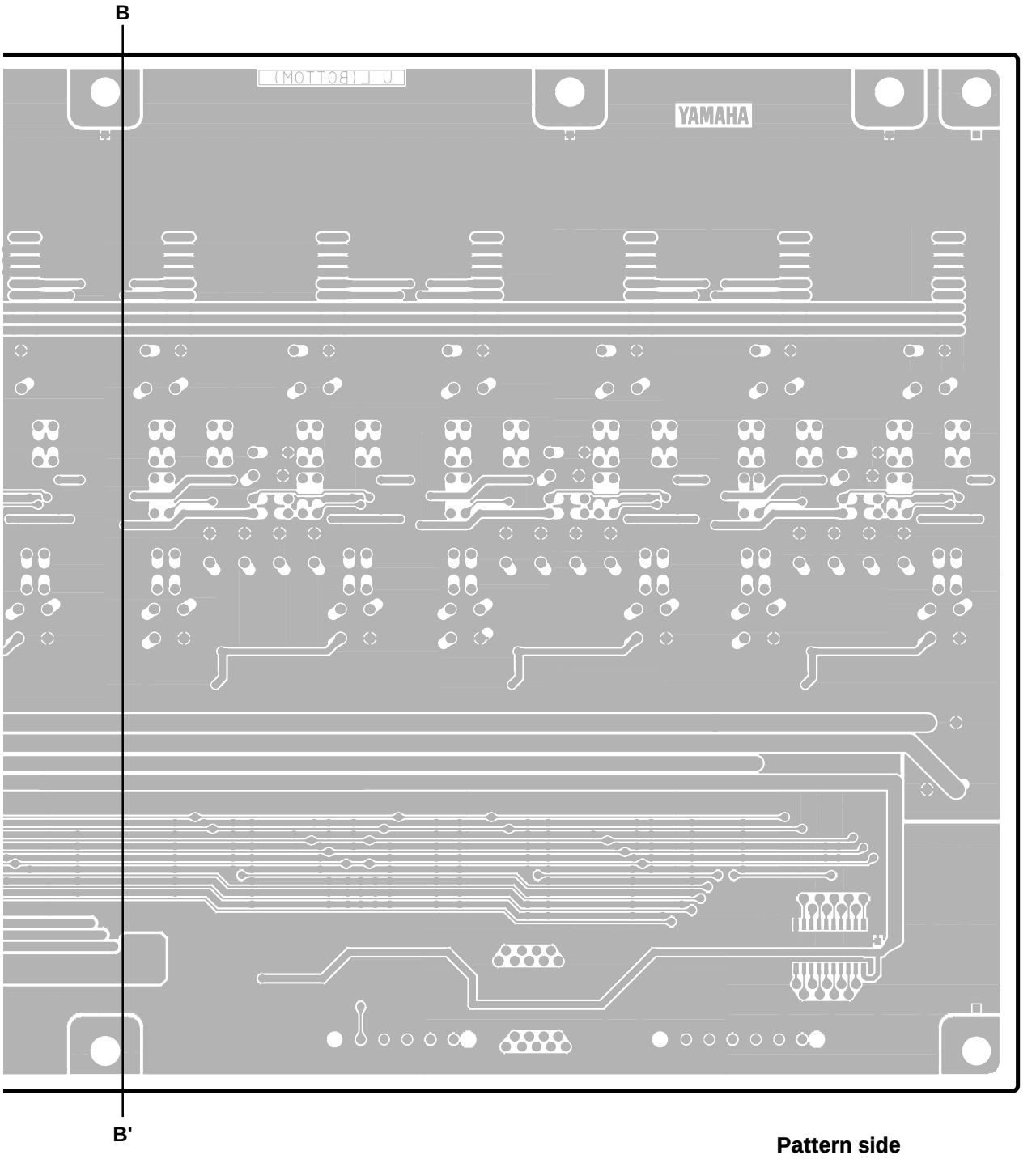
CN101: to ANI#1,#13-CN100
CN102: to ANI#2,#14-CN100
CN201: to ANI#3,#15-CN100
CN202: to ANI#4,#16-CN100
CN301: to ANI#5,#17-CN100
CN302: to ANI#6,#18-CN100
CN401: to ANI#7,#19-CN100
CN402: to ANI#8,#20-CN100
CN501: to ANI#9,#21-CN100
CN502: to ANI#10,#22-CN100
CN601: to ANI#11,#23-CN100
CN602: to ANI#12,#24-CN100

3NA-V628540-2 ⚠1

• AD Circuit Board



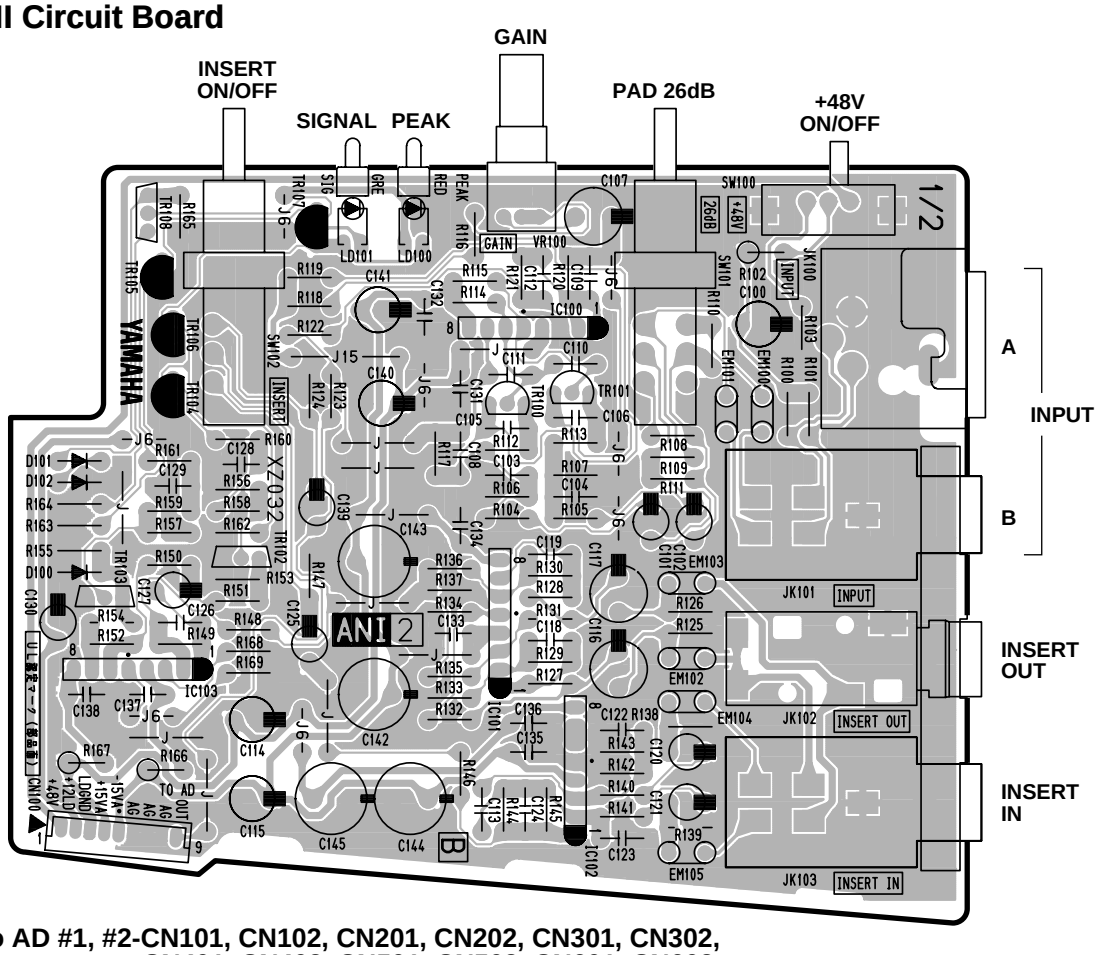
3NA-V628540-2 ⚠1



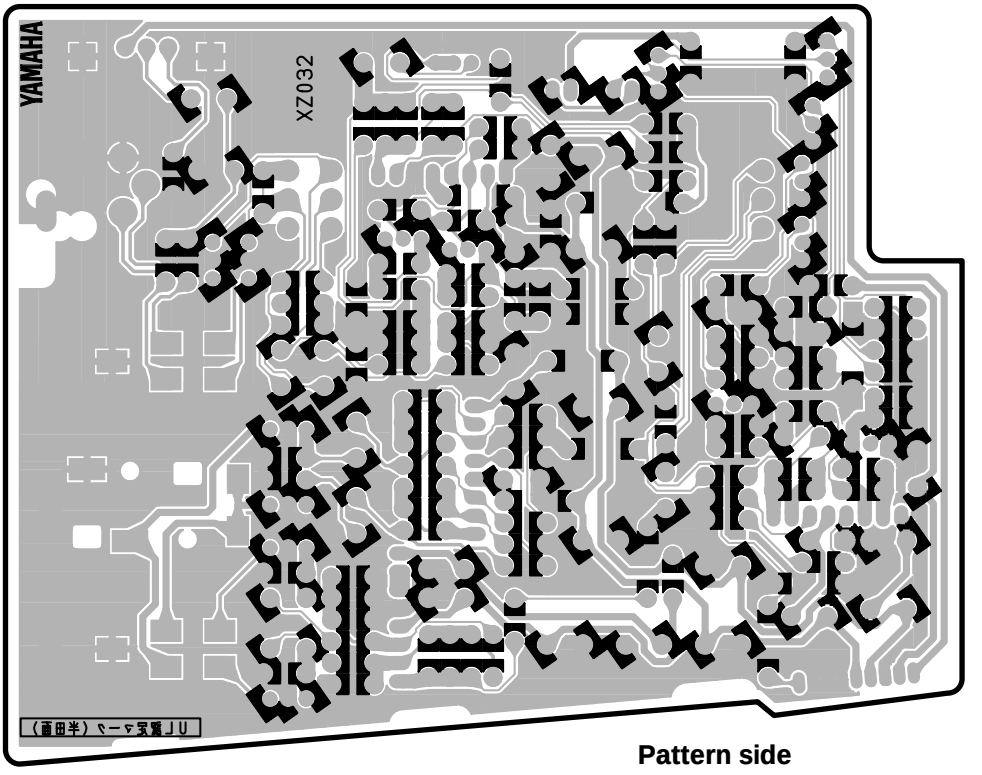
Pattern side

3NA-V628540-2 /1\

• ANI Circuit Board



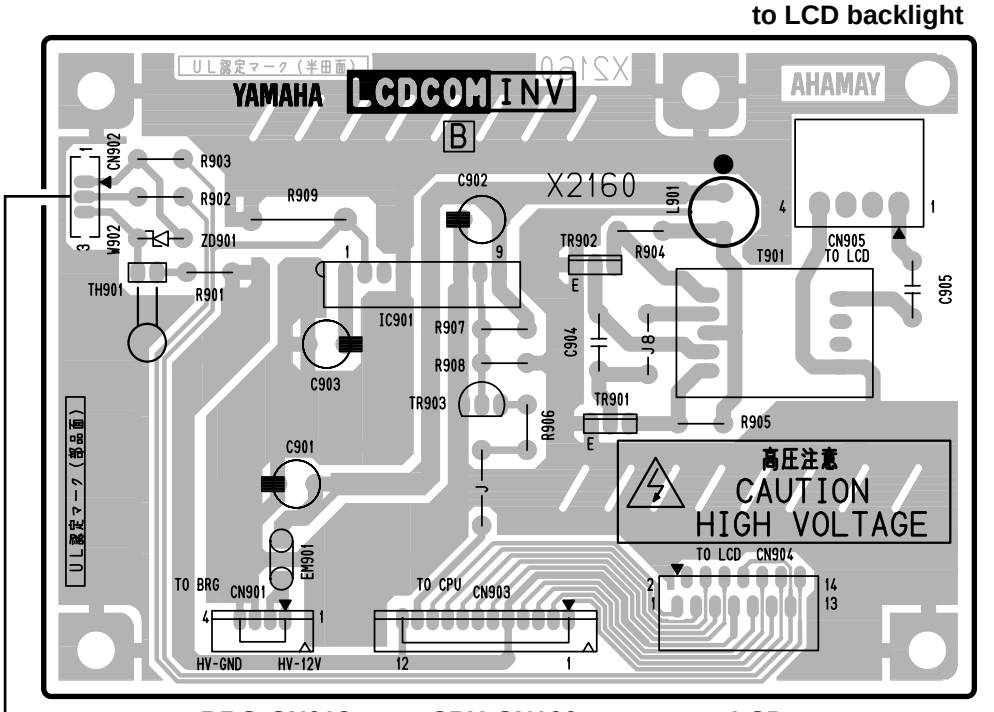
Component side



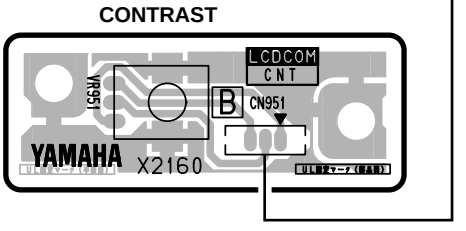
Pattern side

3NA-V628760-2 /1

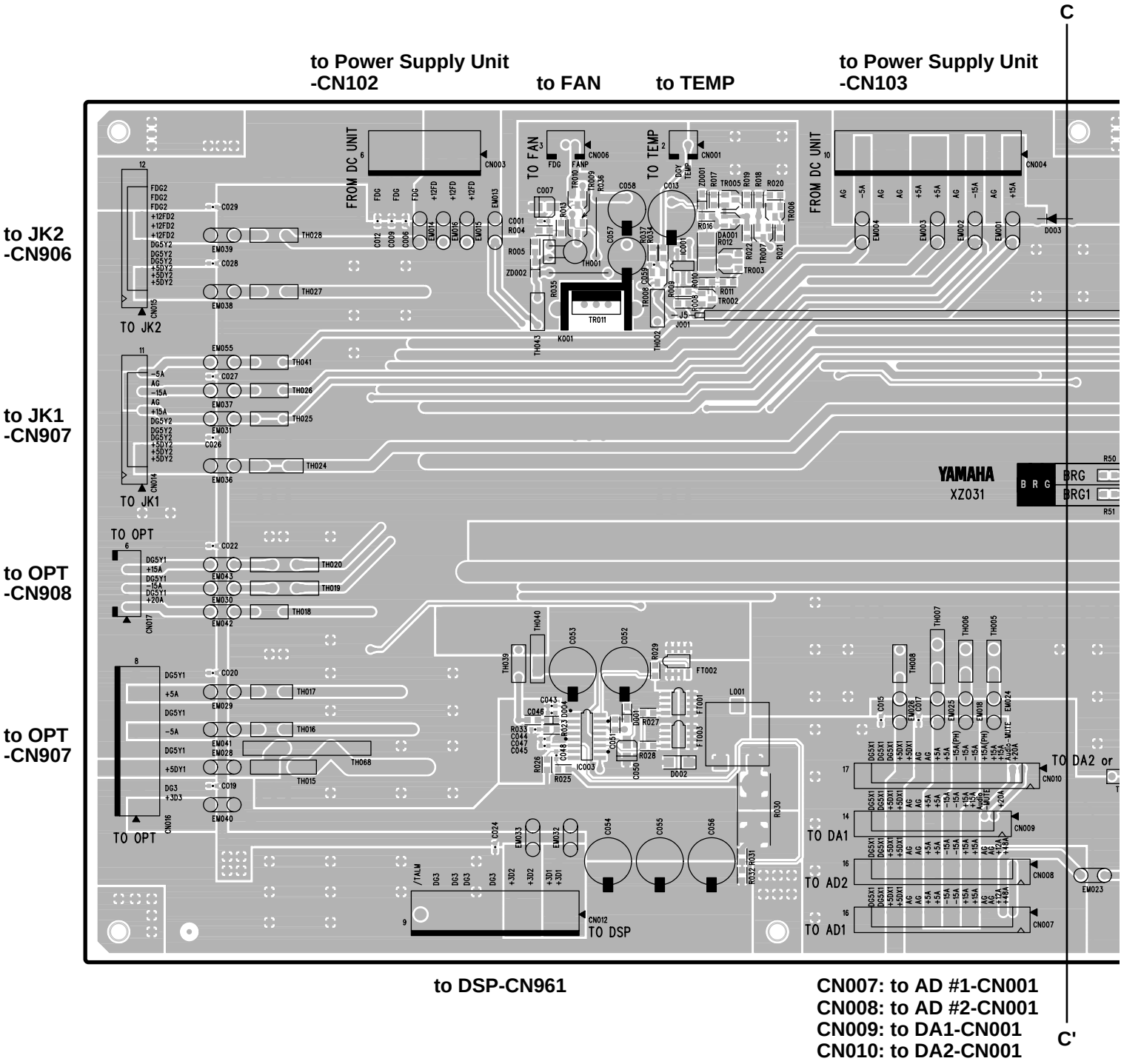
• LCDCOM (INV) Circuit Board



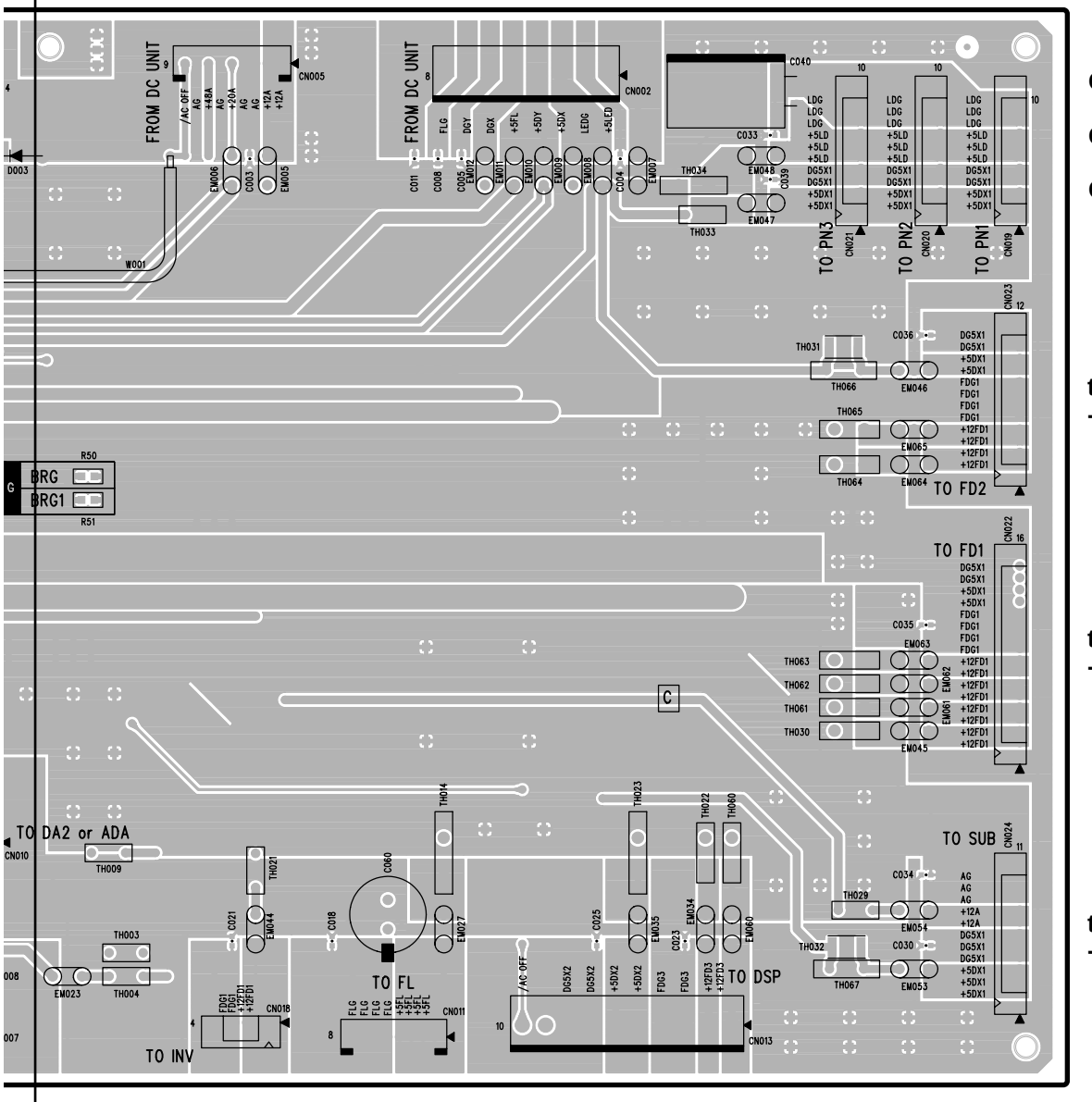
• LCDCOM (CNT) Circuit Board



• BRG Circuit Board

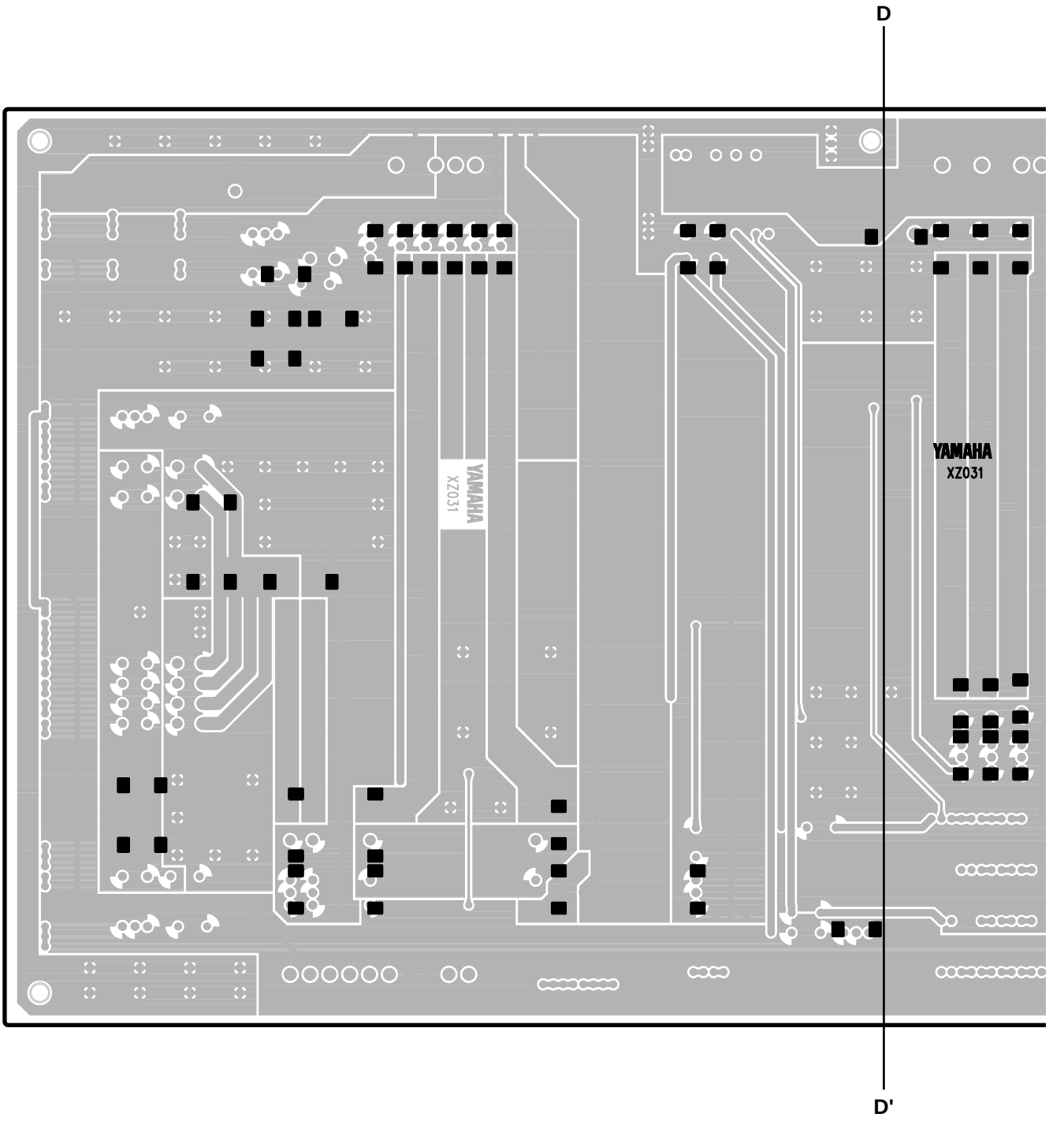


3NA-V628730-2 /2

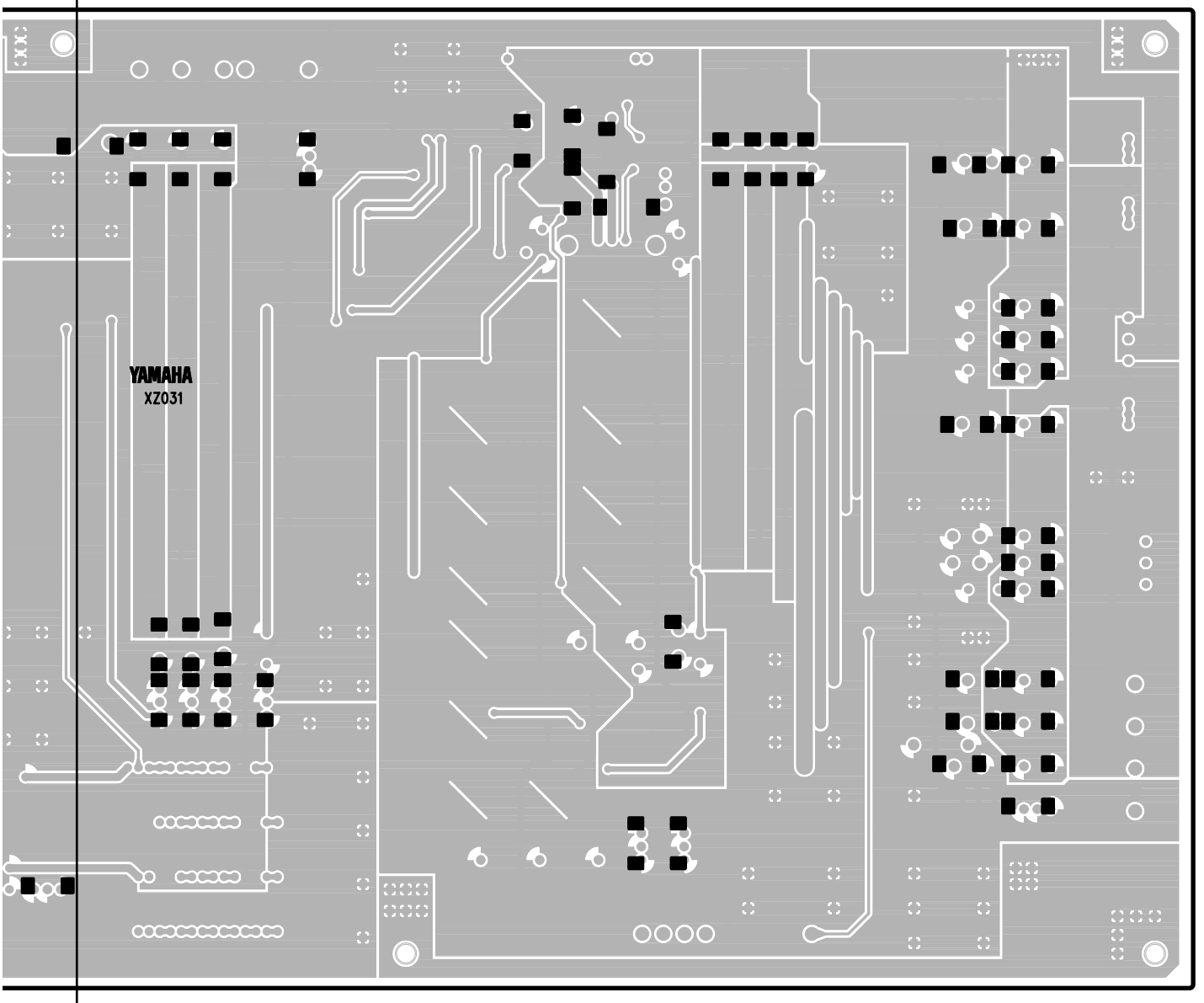


3NA-V628730-2 ⚠2

• BRG Circuit Board



3NA-V628730-2 /2



Pattern side

3NA-V628730-2 ⚠2

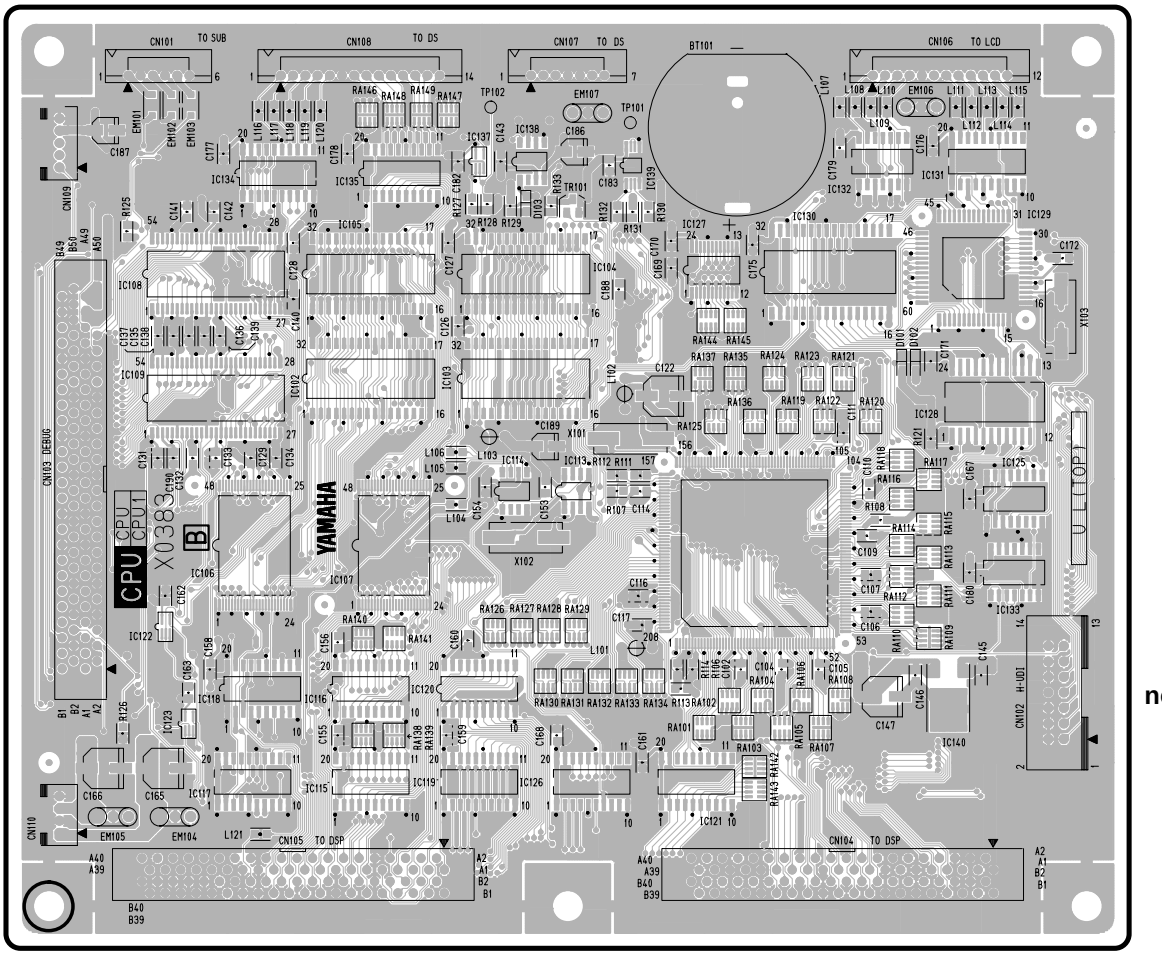
• CPU Circuit Board

to SUB-CN102 to DS-CN001 to DS-CN002 to LCDCOM (INV)-CN903

not used (for check)

not installed

not used (for check)



not installed

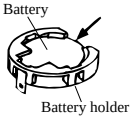
to DSP-CN105 to DSP-CN104

Component side

• Lithium Battery

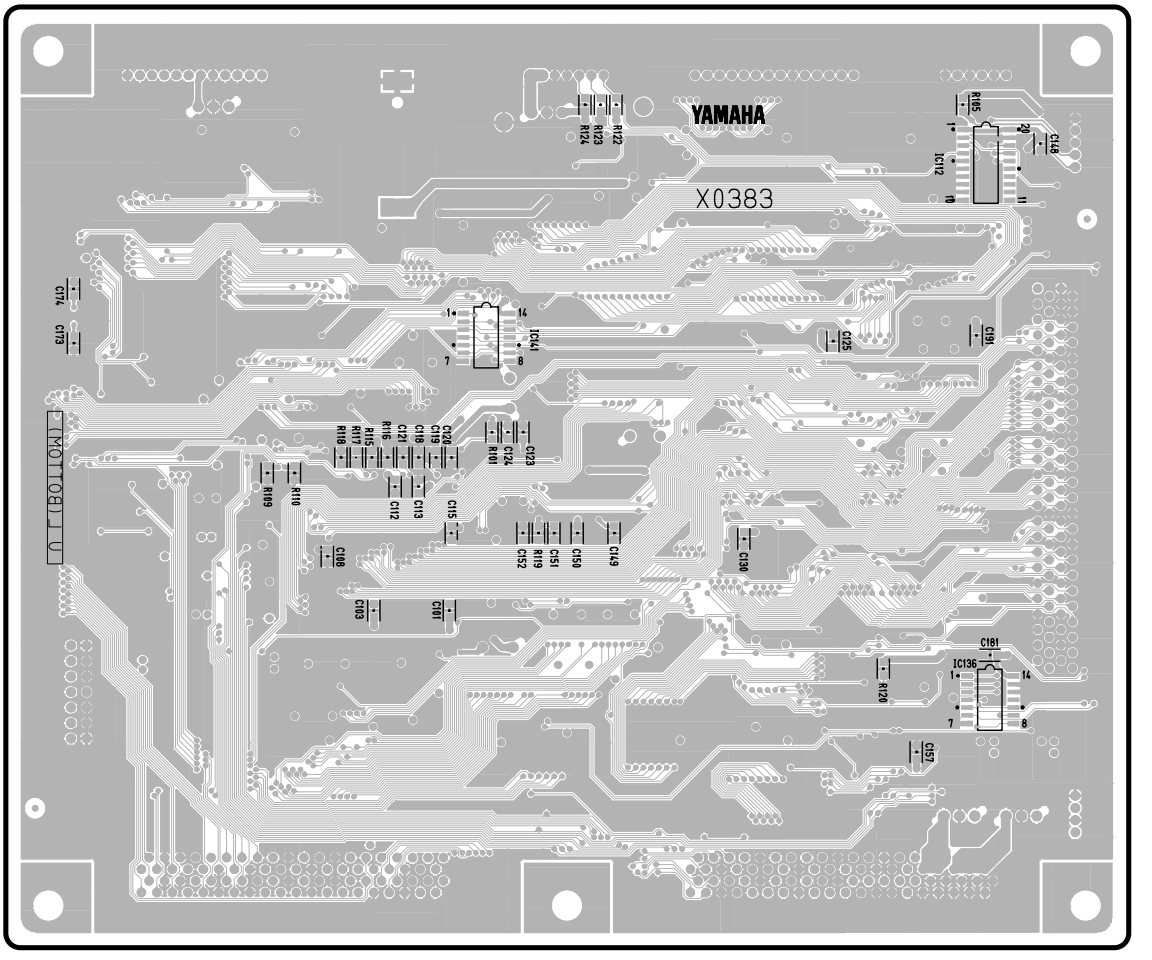
Battery VN103500
VN103600(Battery holder for VN103500)

- Notice for back-up battery removal
  Push the battery as shown in figure, then the battery will pop up.
- Druk de batterij naar beneden zoals aangeven in de tekening de batterij springt dan naar voren.



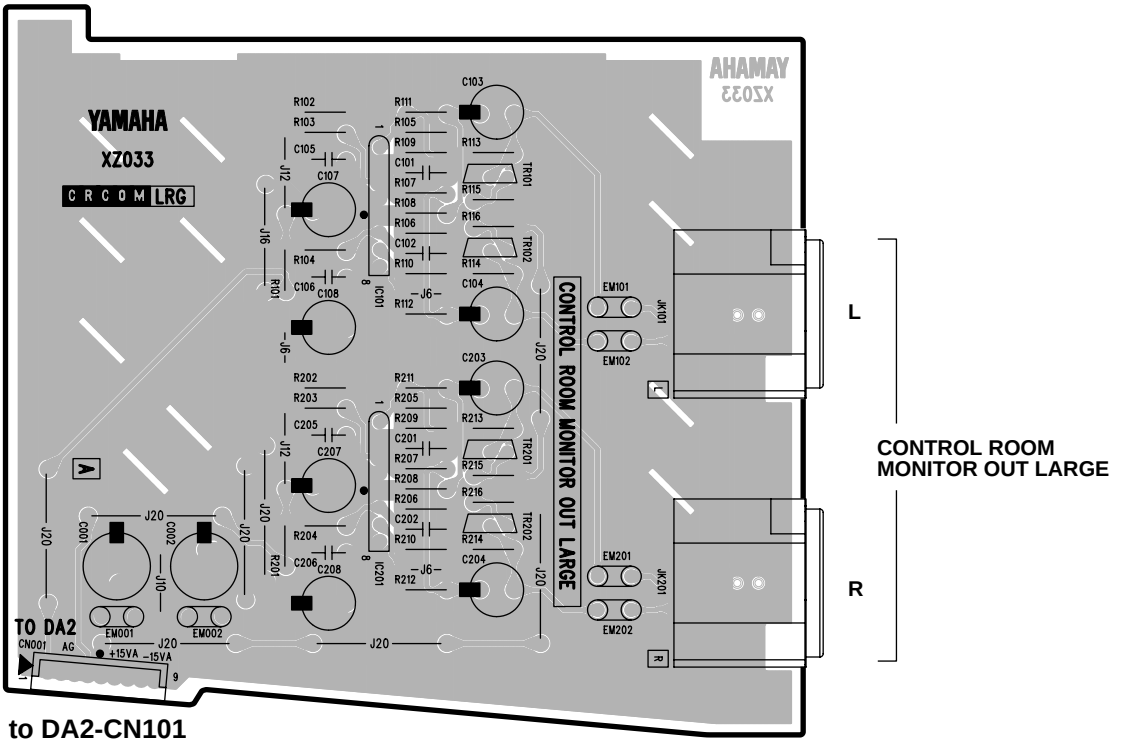
3NA-V776550-2 /3

• CPU Circuit Board



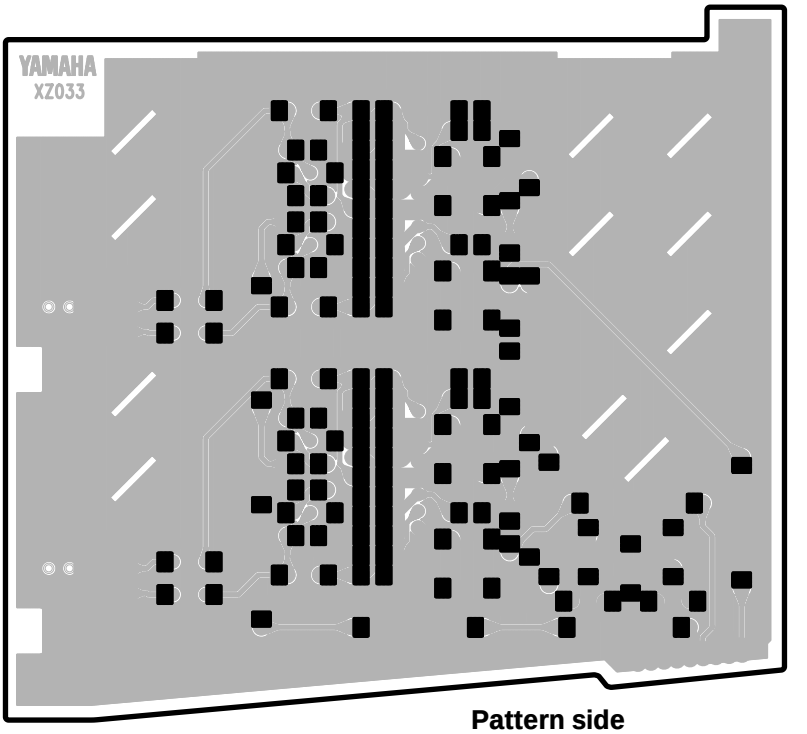
Pattern side

• CRCOM (LRG) Circuit Board



to DA2-CN101

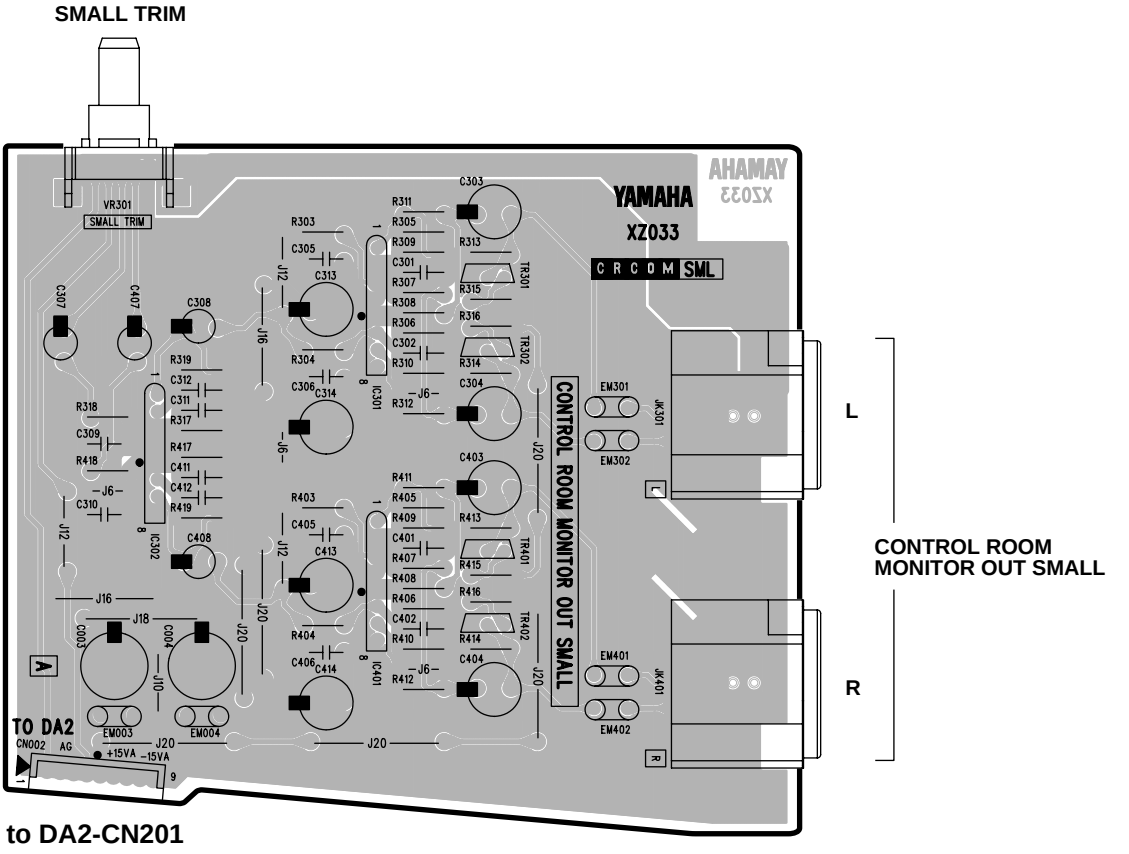
Component side



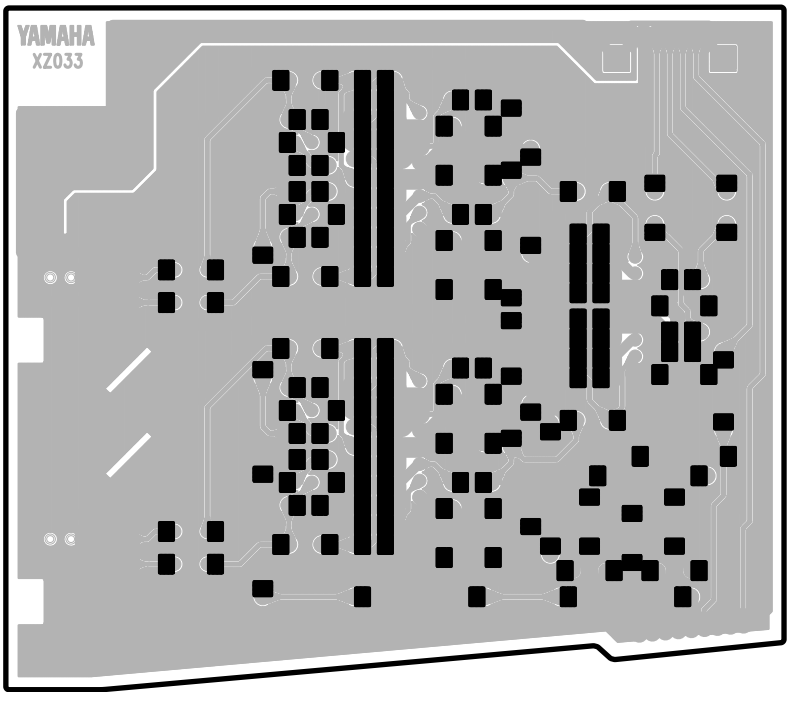
Pattern side

3NA-V628790-1 /1

• CRCOM (SML) Circuit Board



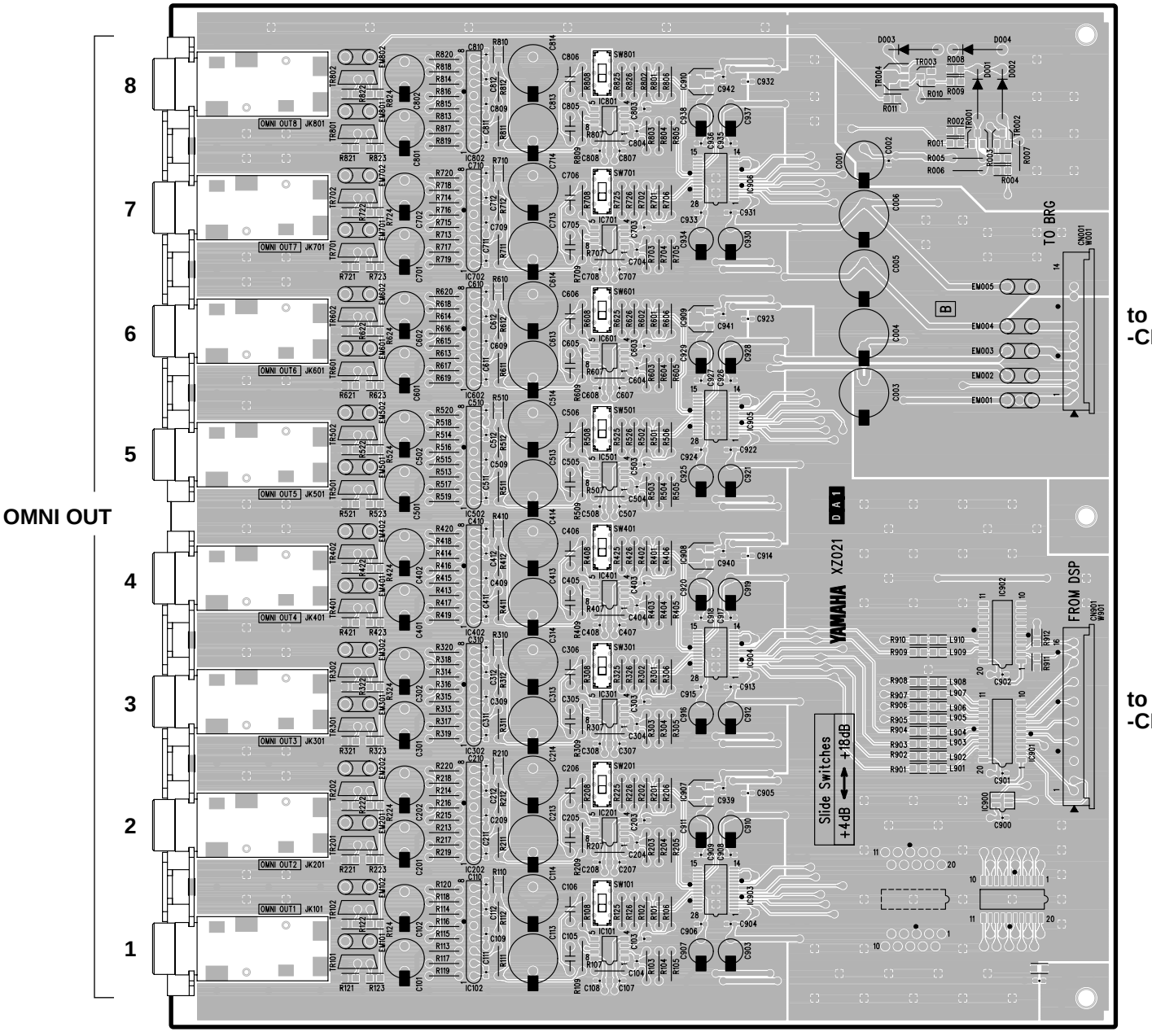
Component side



Pattern side

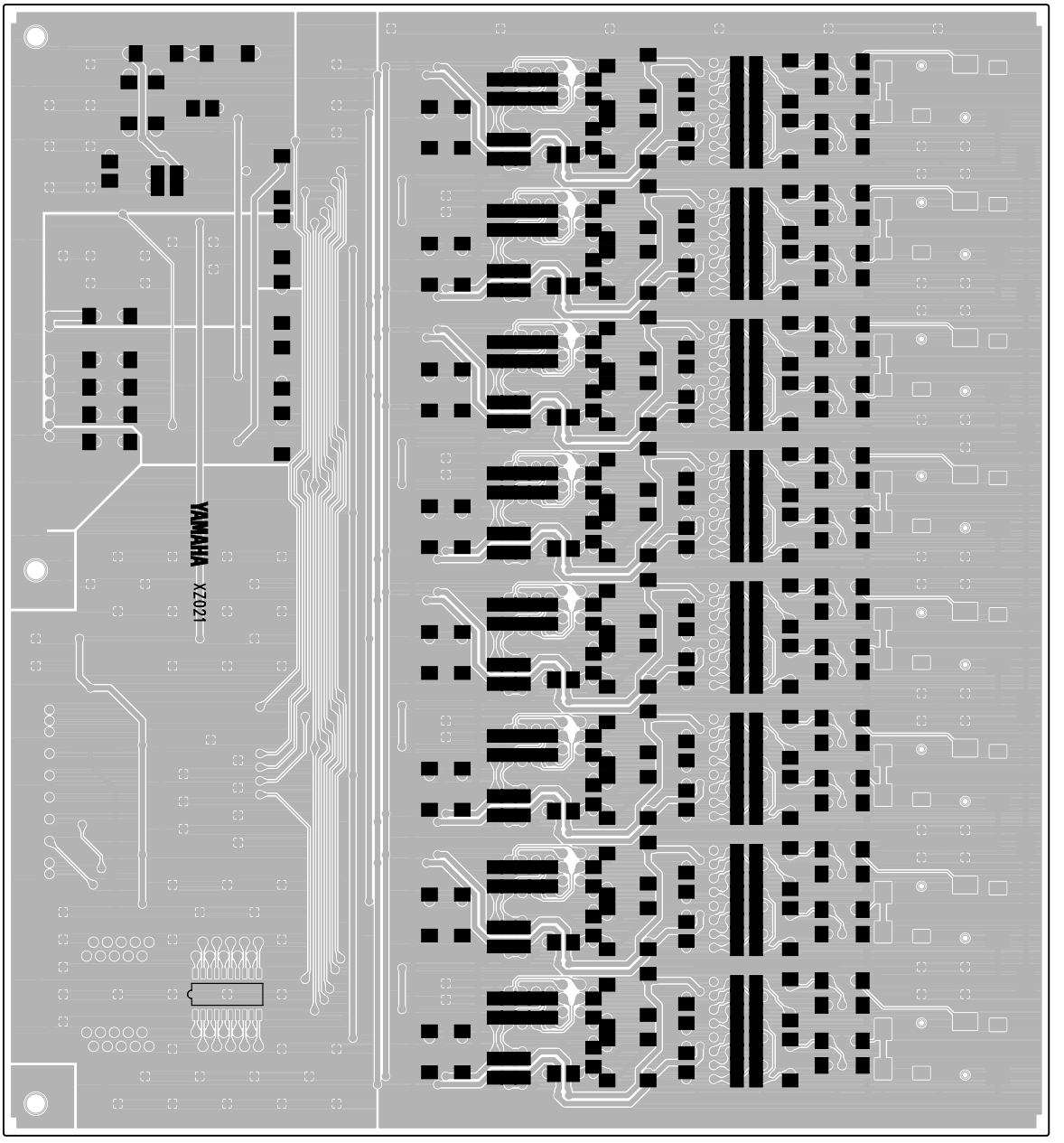
3NA-V628790-1 /1

• DA1 Circuit Board



Component side

• DA1 Circuit Board



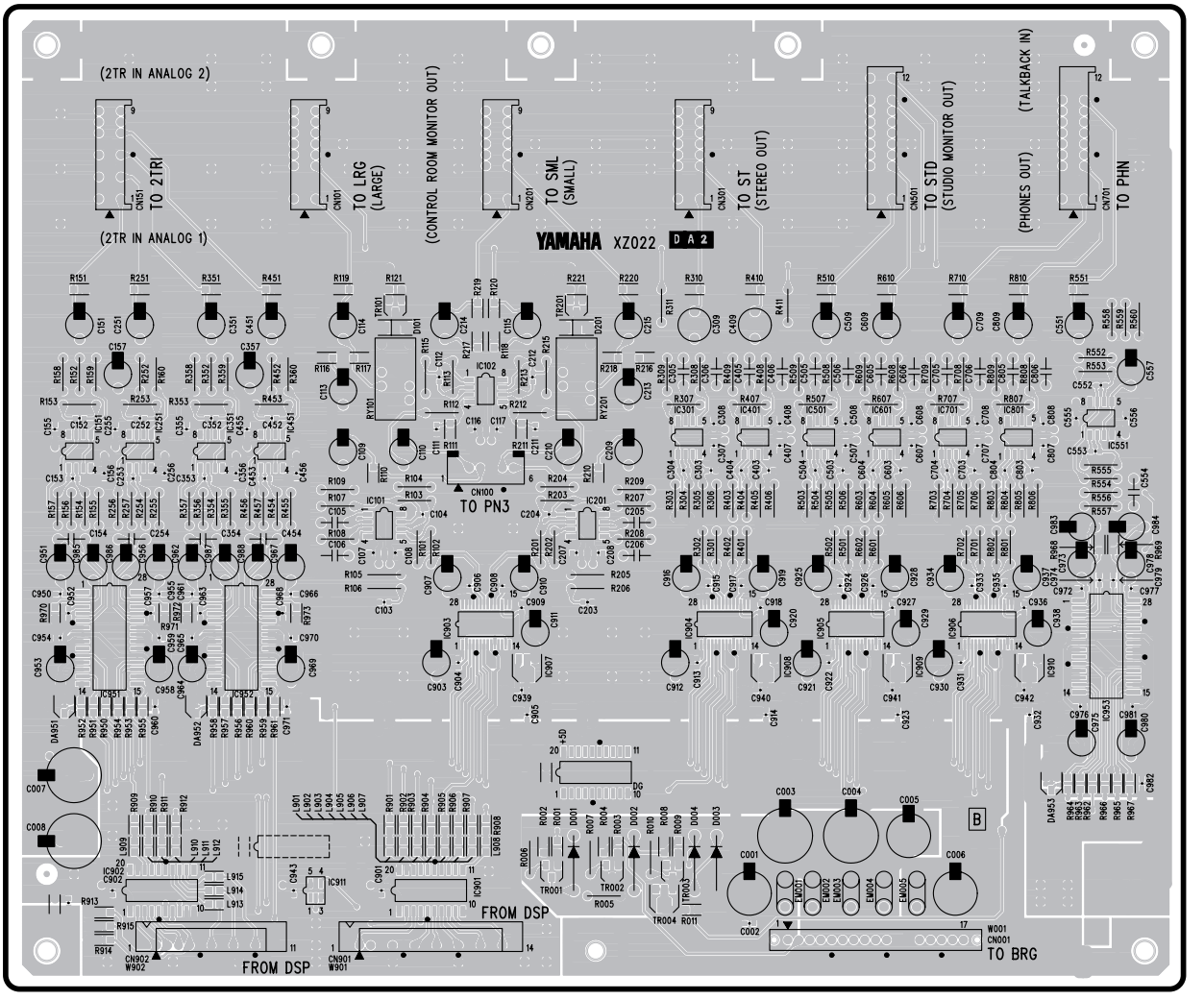
Pattern side

3NA-V628550-1 ⚠2

• DA2 Circuit Board

to 2TRI-CN101 to LRG-CN001 to SML-CN002 to ST-CN001 to STD-CN002 to PHN-CN201

CN100:
to PN3-CN505

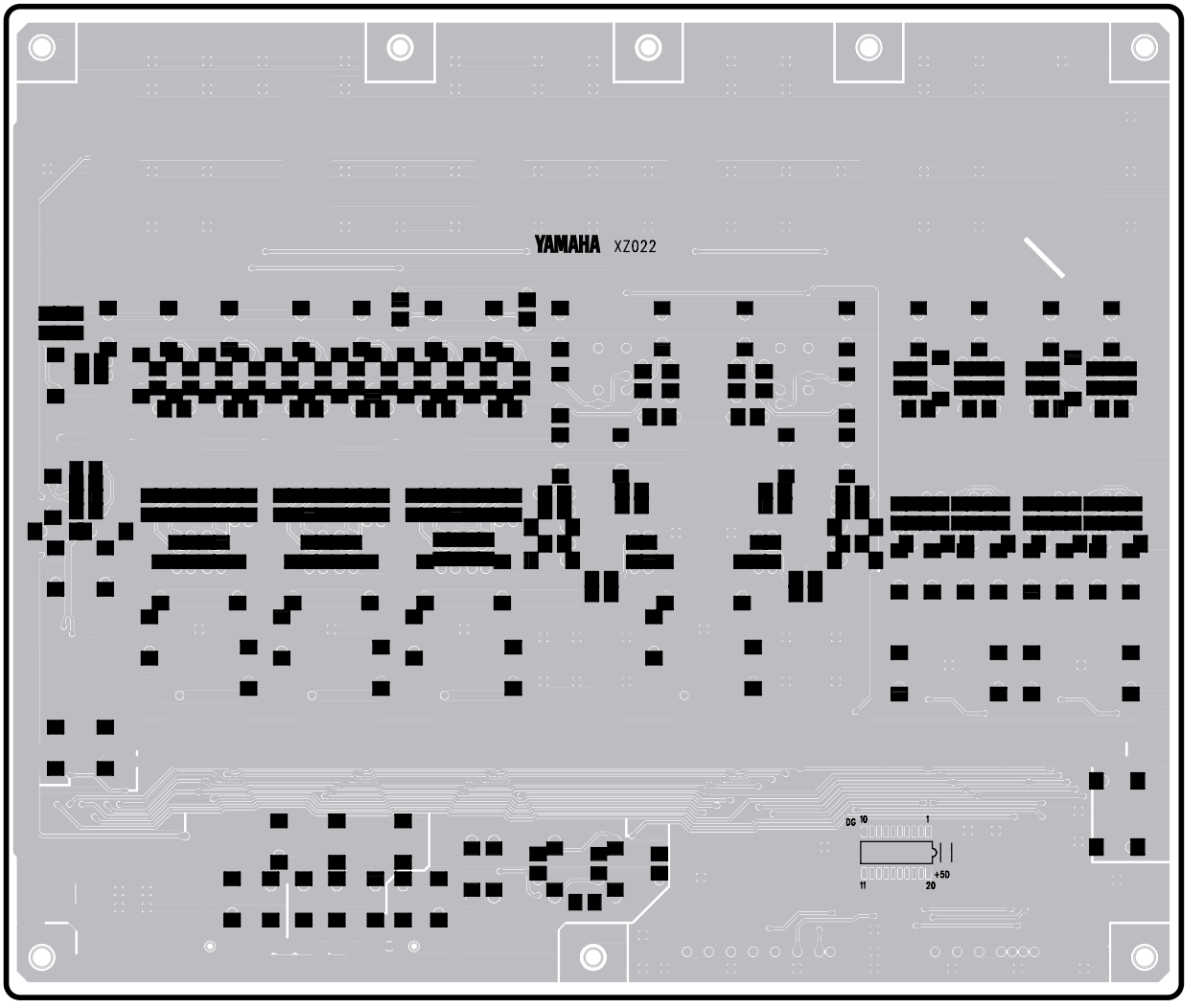


to DSP-CN957 to DSP-CN956 to BRG-CN010

Component side

3NA-V628560-1

• DA2 Circuit Board



Pattern side

• DSP Circuit Board

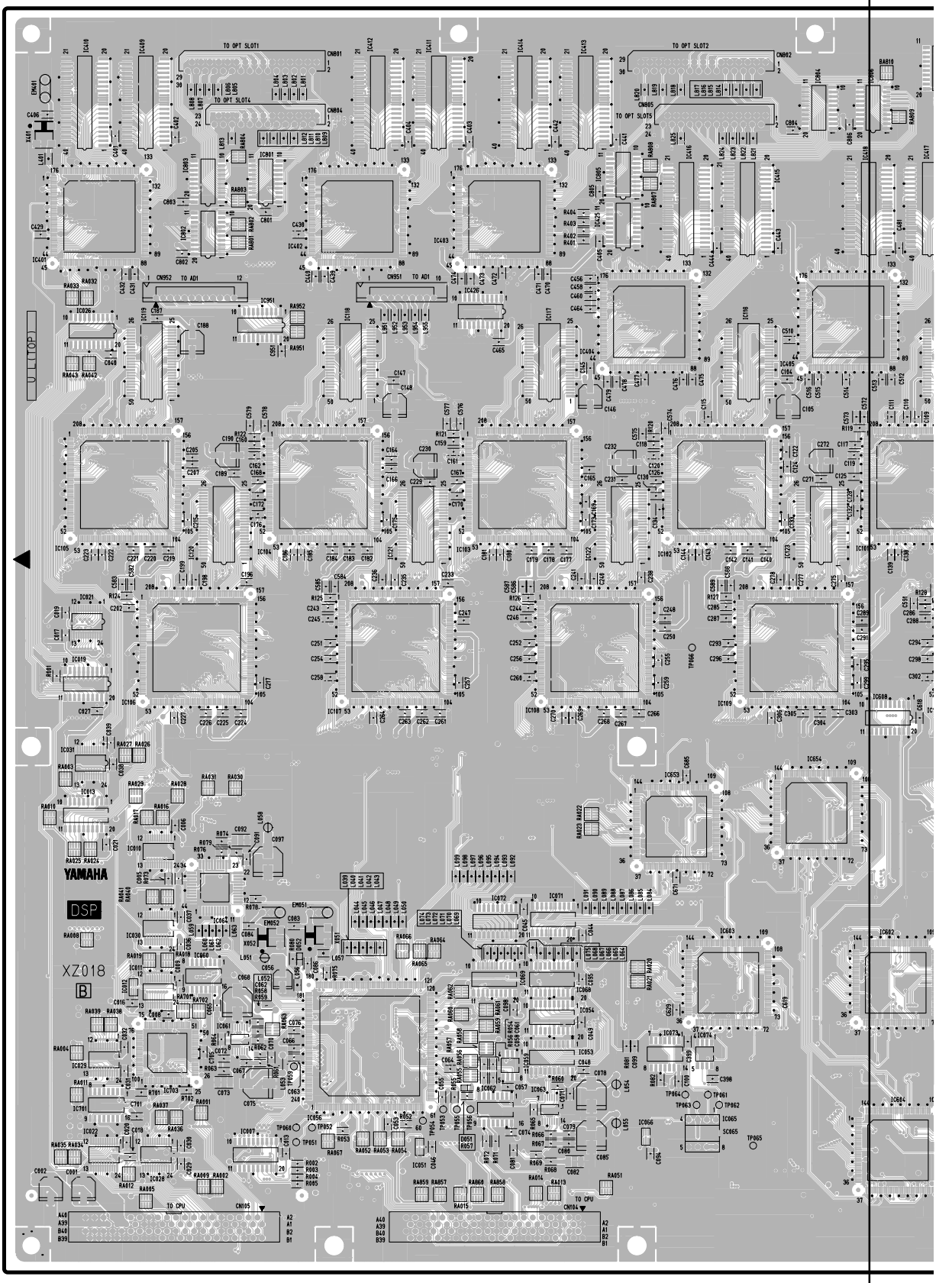
CN801: to OPT-CN801
CN804: to OPT-CN804

CN802: to OPT-CN802
CN805: to OPT-CN805

E

CN951: to AD #1 -CN003

CN952: to AD #1 -CN002



to CPU-CN105

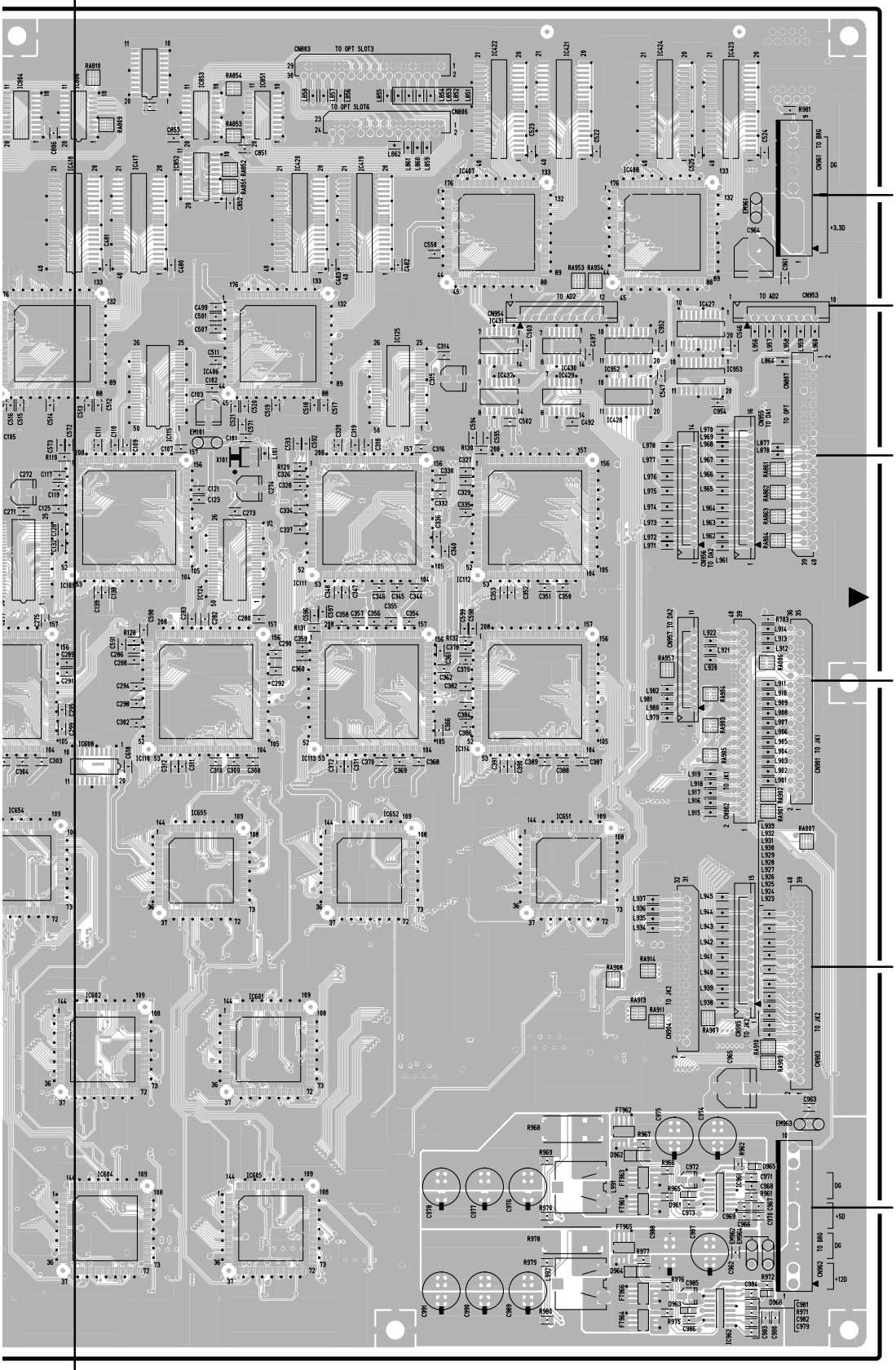
to CPU-CN104

3NA-V628520-2 ⚠1

E'

E

CN803: to OPT-CN803
CN806: to OPT-CN806



to BRG
-CN012

to AD #2
-CN003

CN954: to AD #2
-CN002

to OPT
-CN807

CN955: to DA1
-CN901
CN956: to DA2
-CN901

to JK1
-CN901

CN902: to JK1
-CN902
CN957: to DA2
-CN902

to JK2
-CN903

CN904: to JK2
-CN904
CN905: to JK2
-CN905

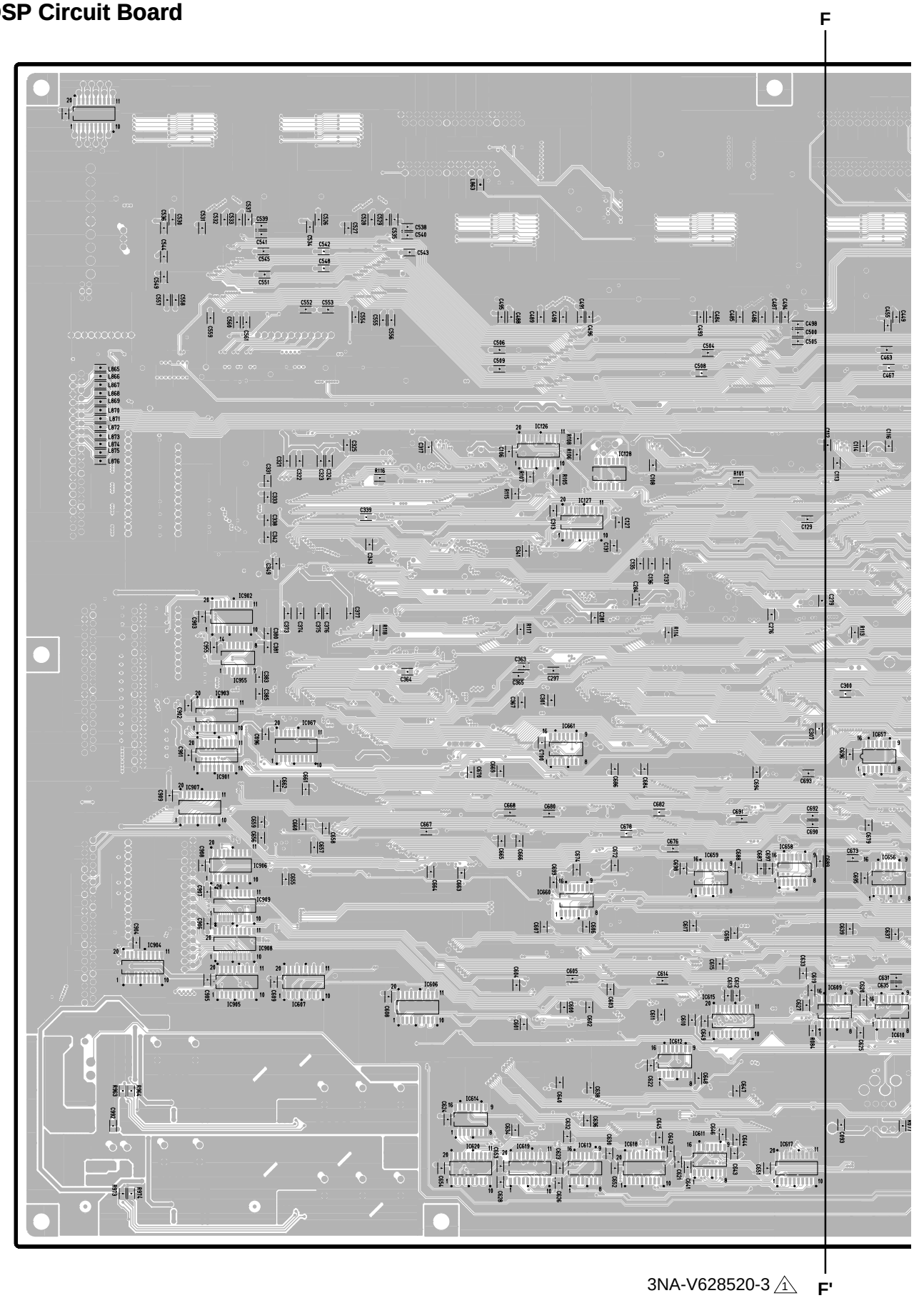
to BRG
-CN013

E'

3NA-V628520-2 ⚠1

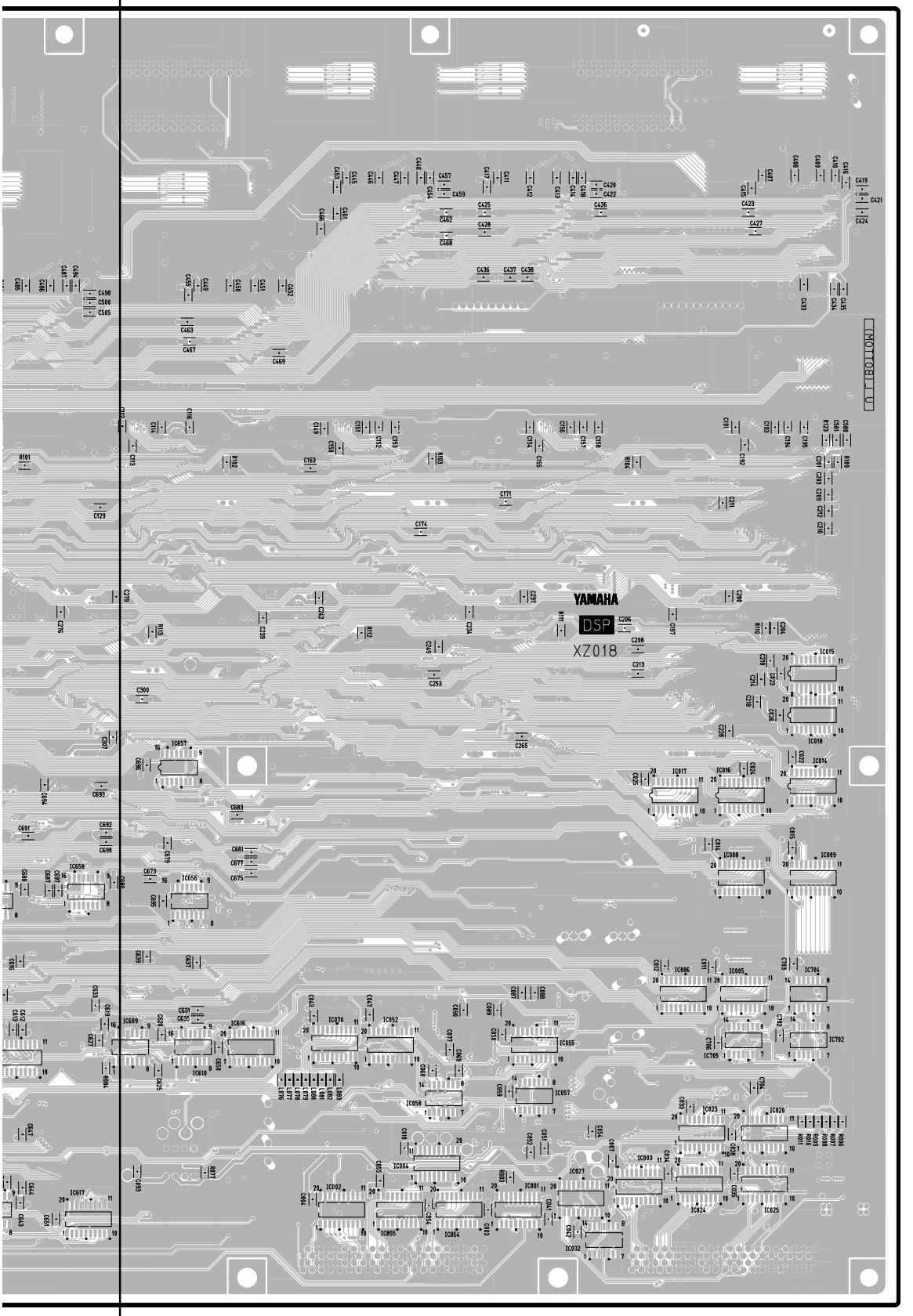
Component side

• DSP Circuit Board



3NA-V628520-3 ⚠1

F

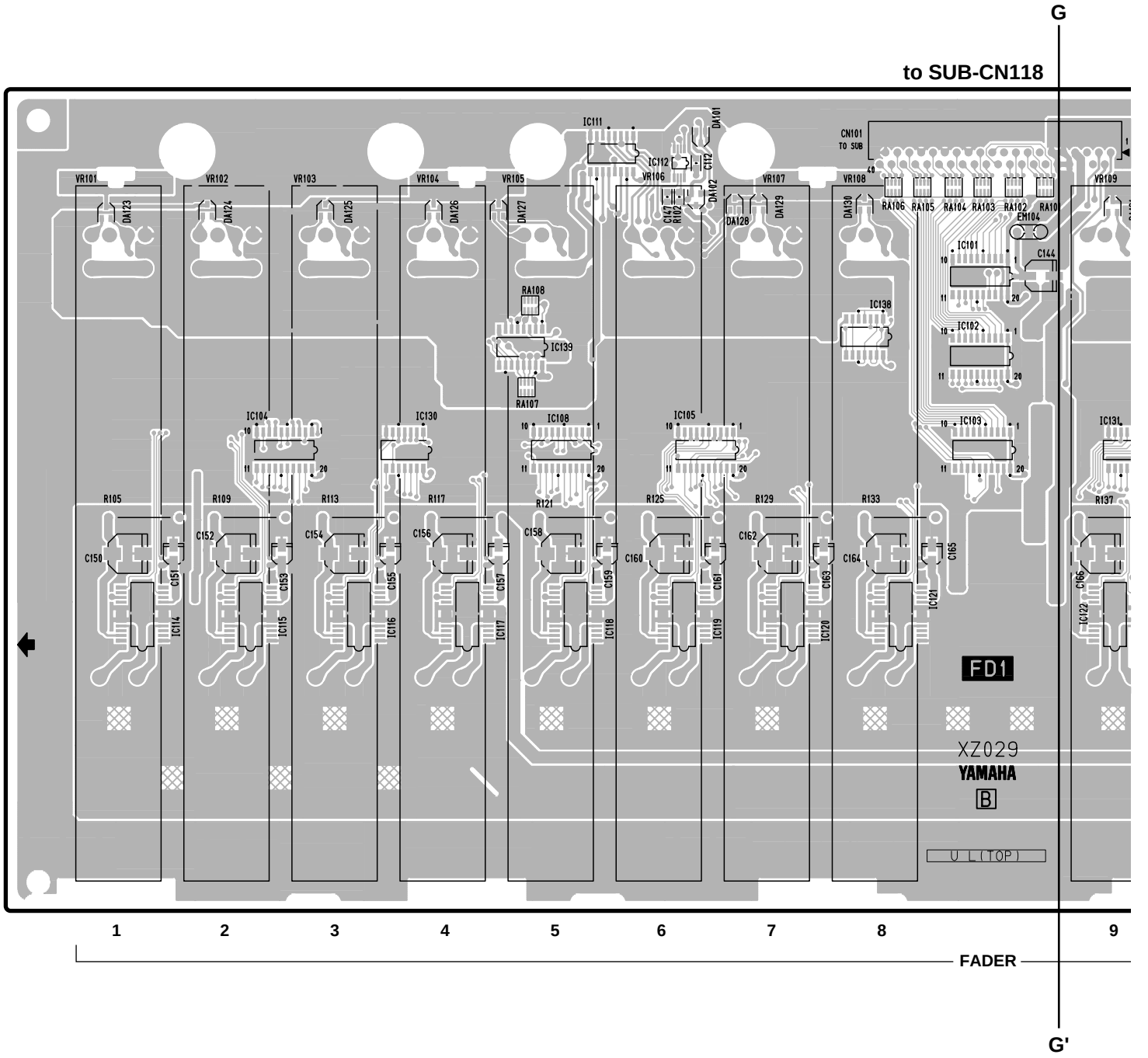


F'

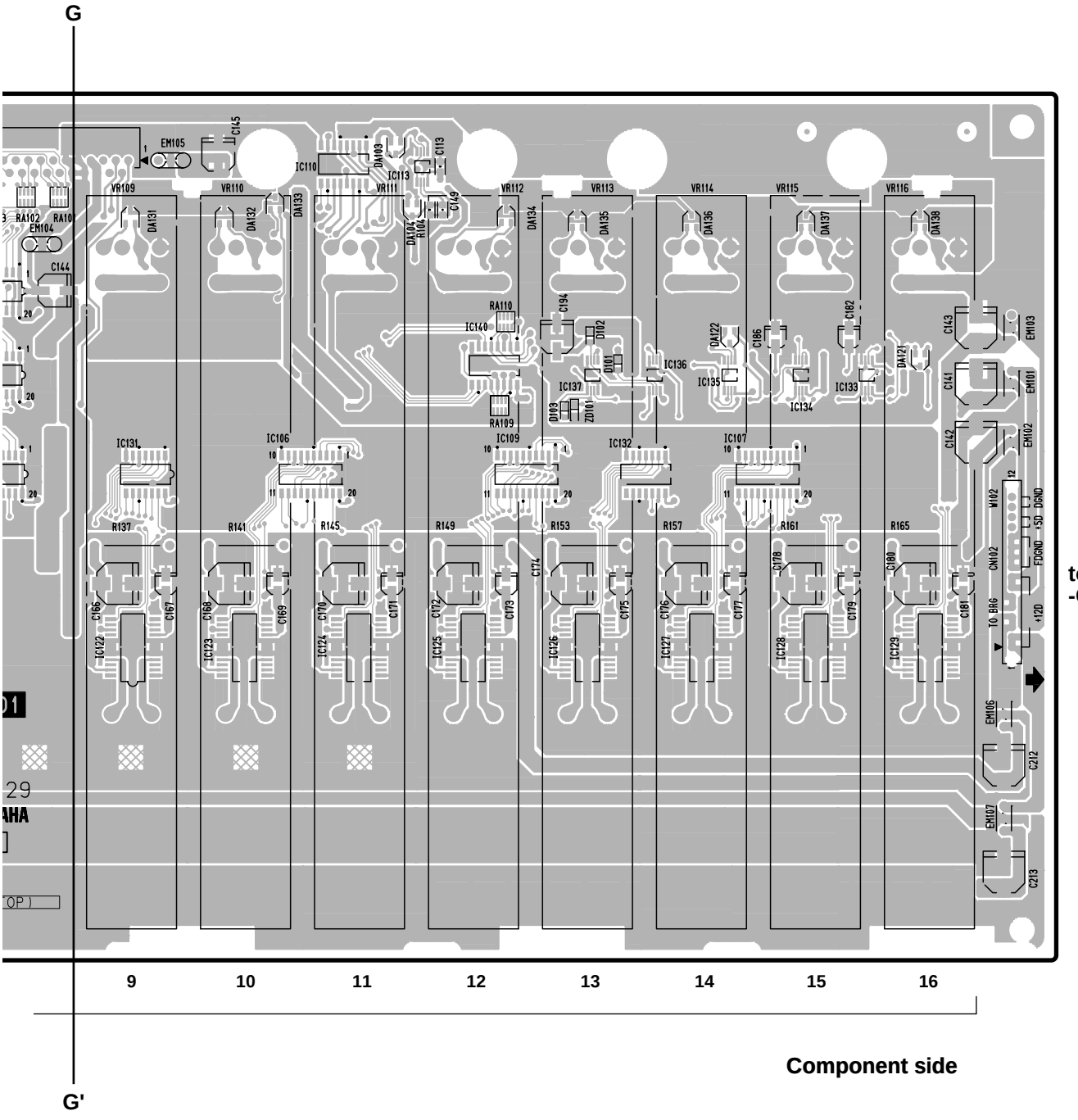
3NA-V628520-3 /1\

Pattern side

• FD1 Circuit Board

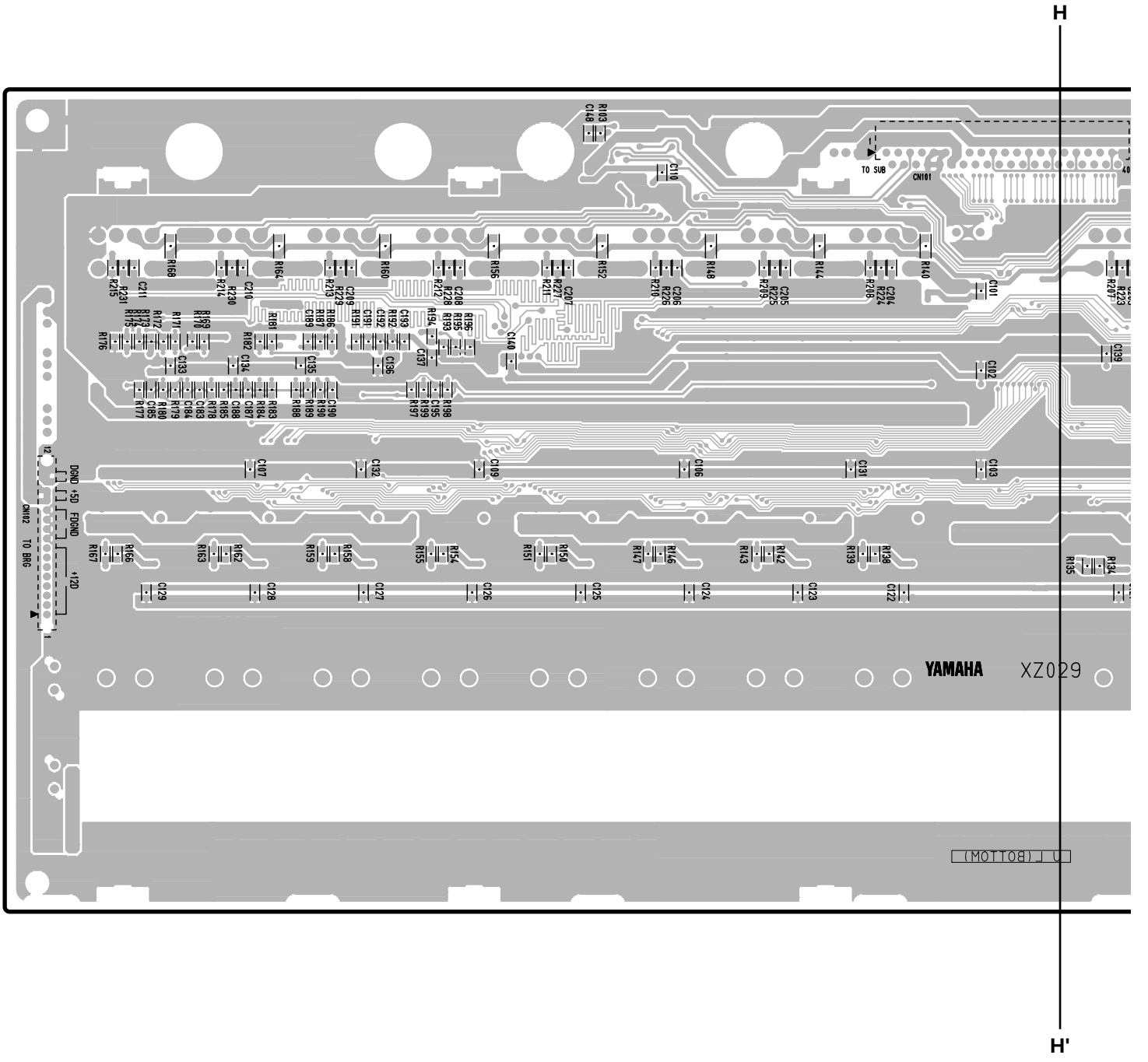


3NA-V628660-2 /1

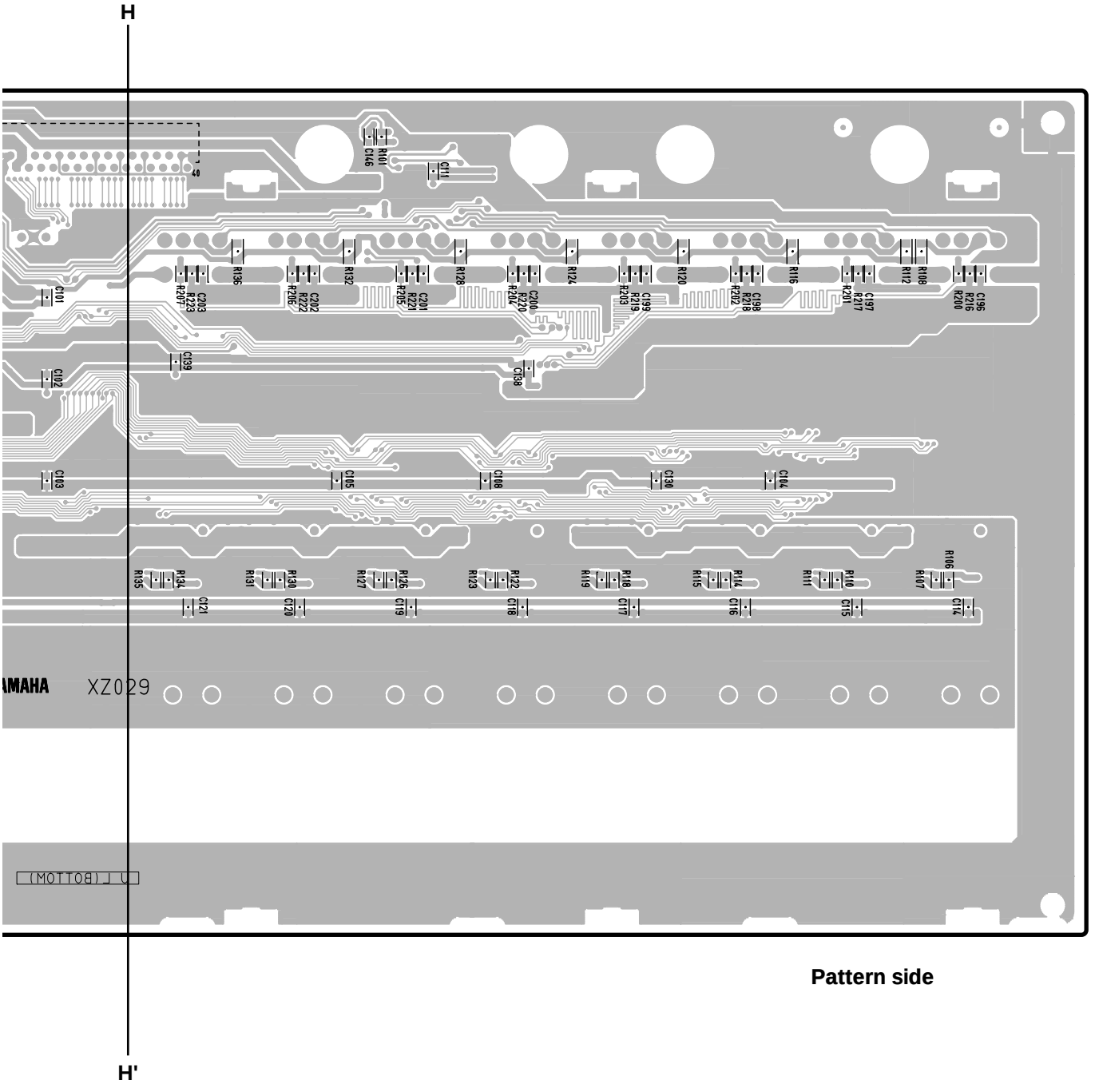


3NA-V628660-2 /1

• FD1 Circuit Board

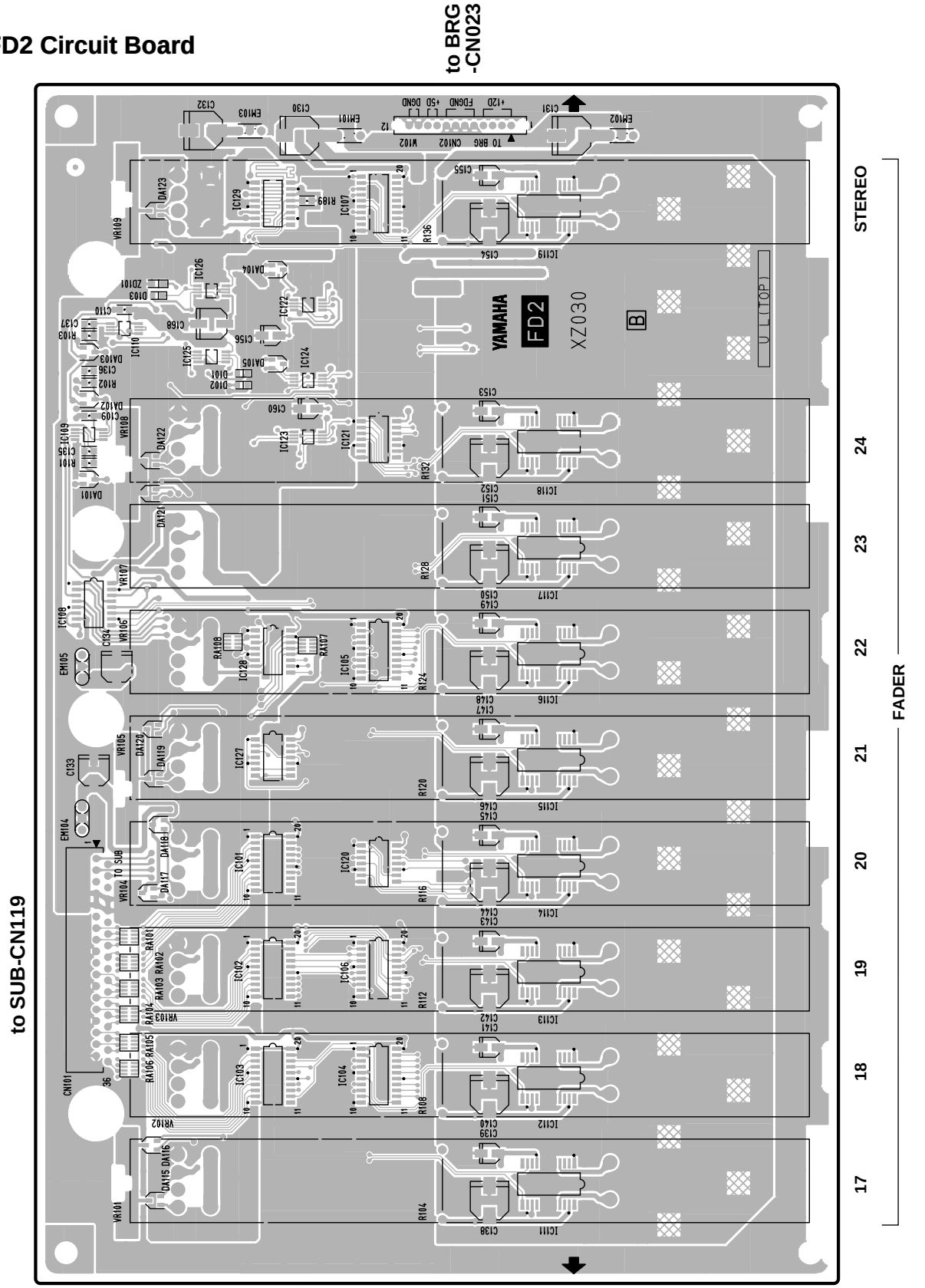


3NA-V628660-3 /1



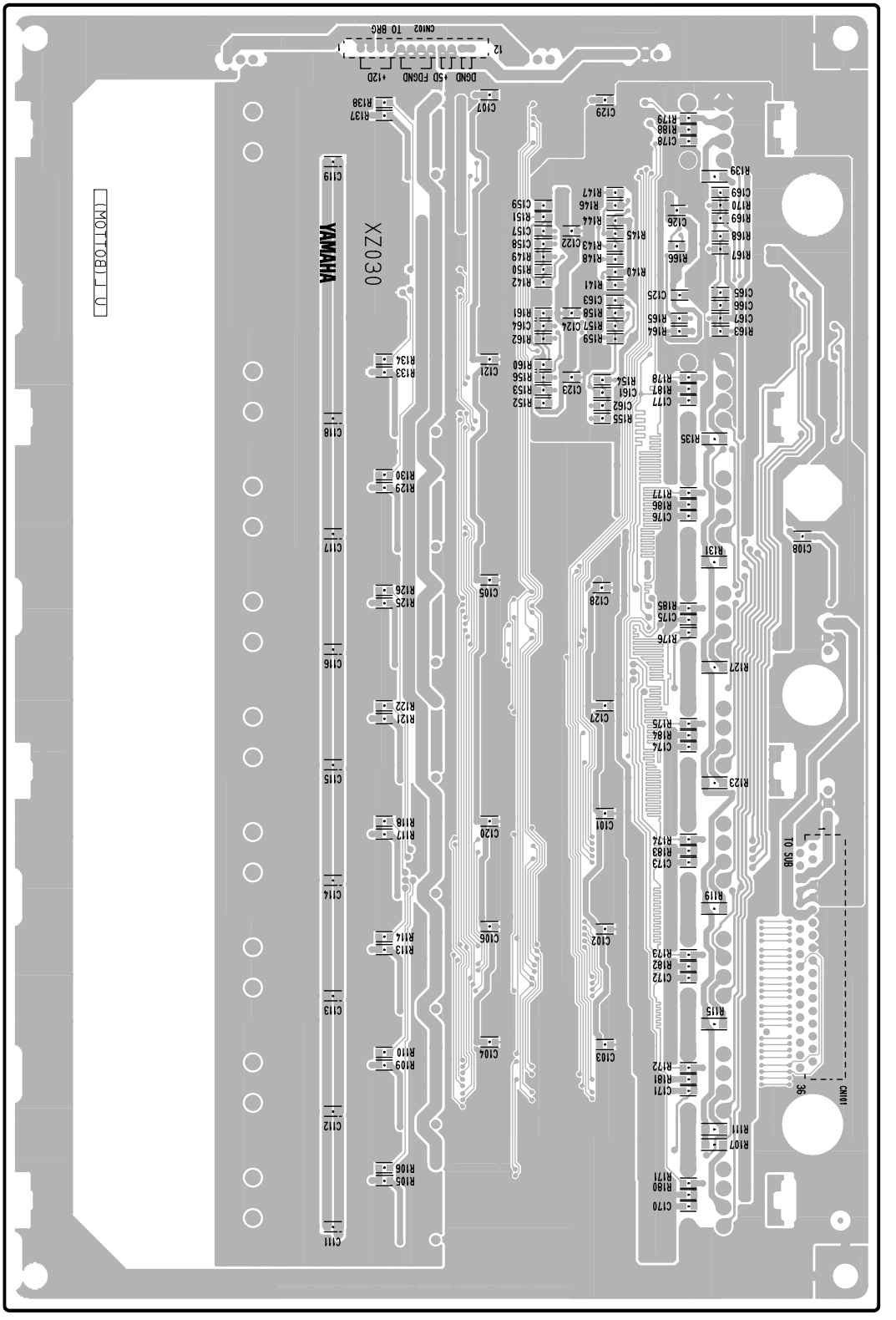
3NA-V628660-3 ⚠1

• FD2 Circuit Board



3NA-V628680-2 /1

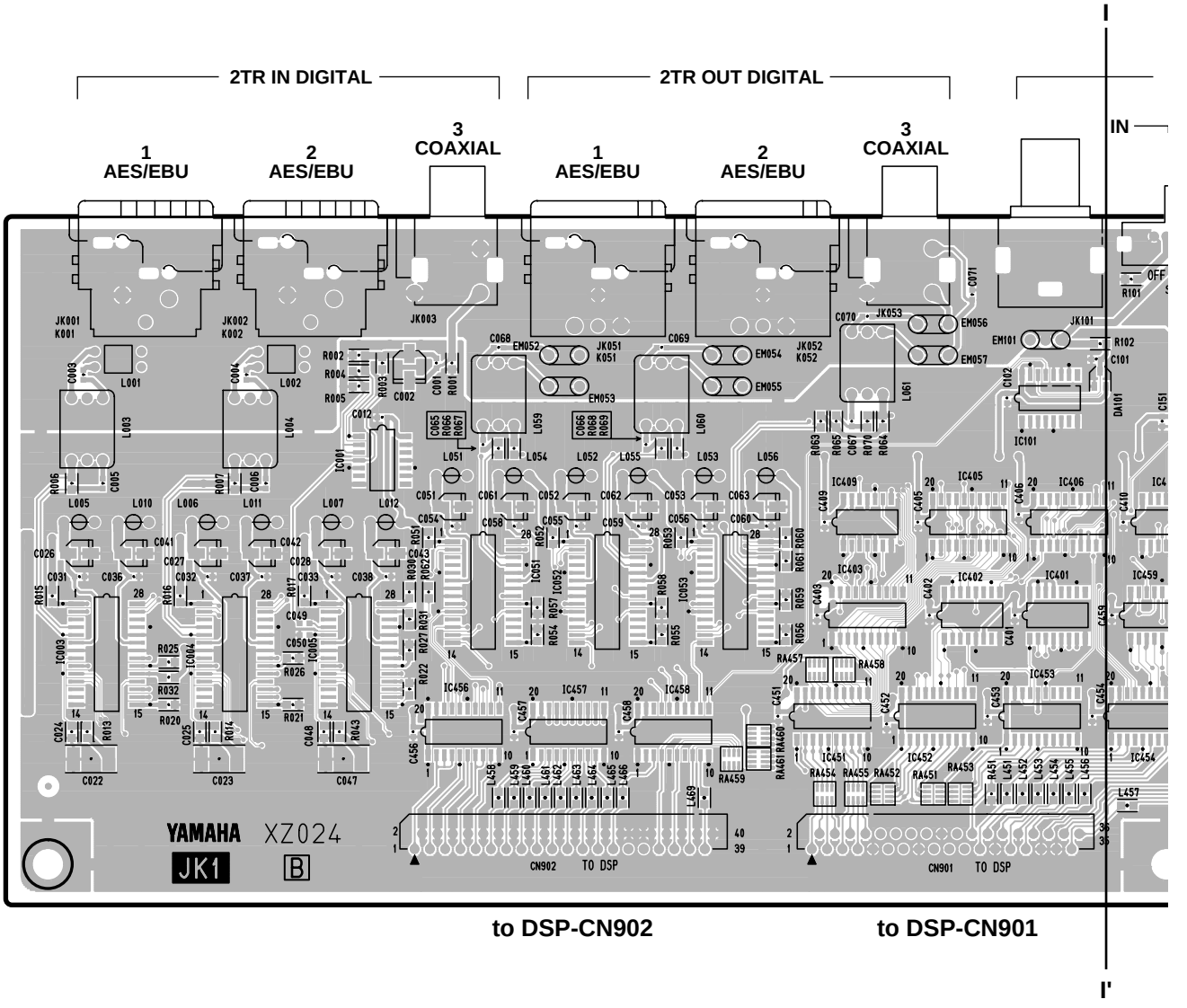
• FD2 Circuit Board

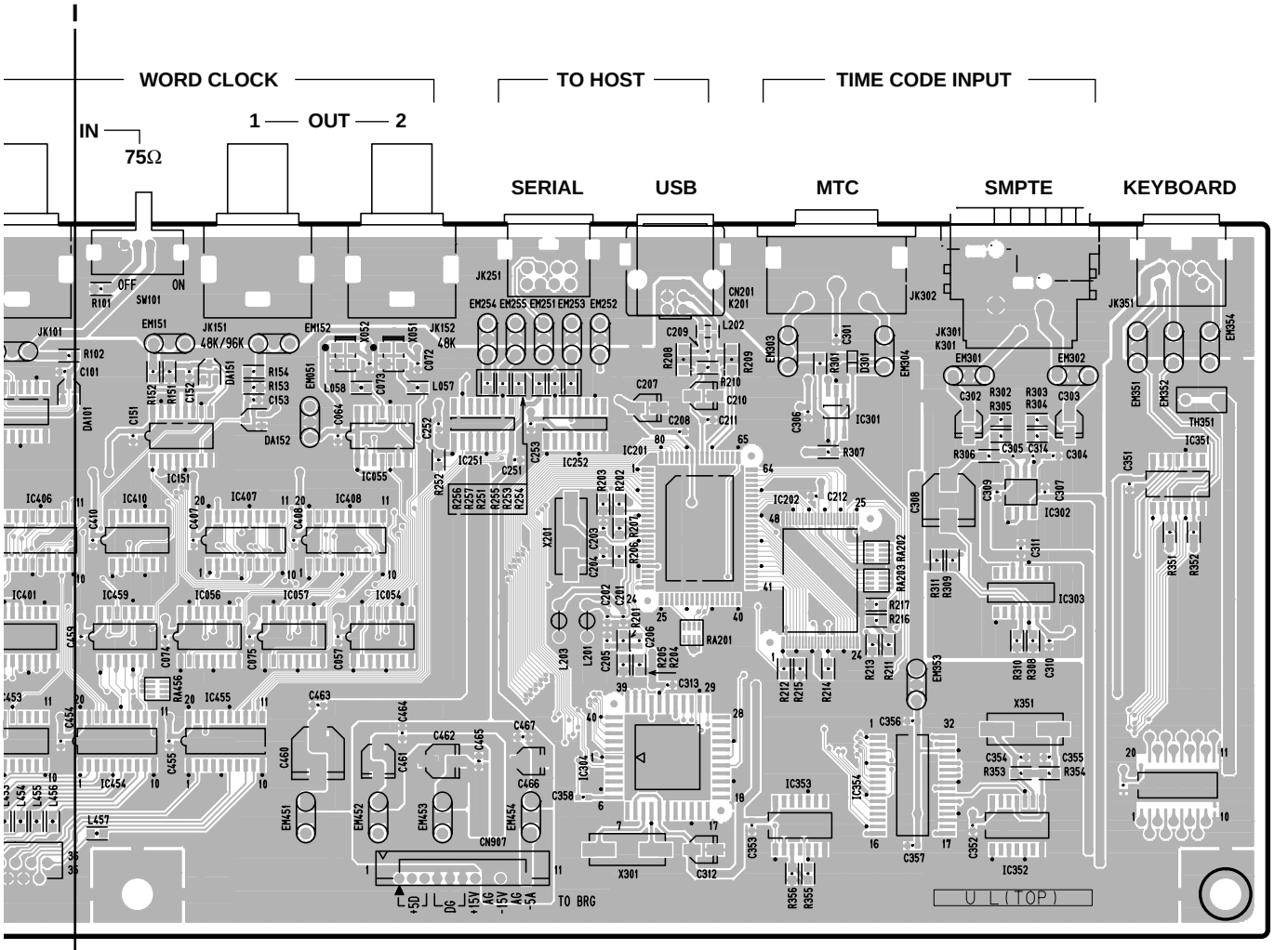


Pattern side

3NA-V628680-3 /1\

• JK1 Circuit Board



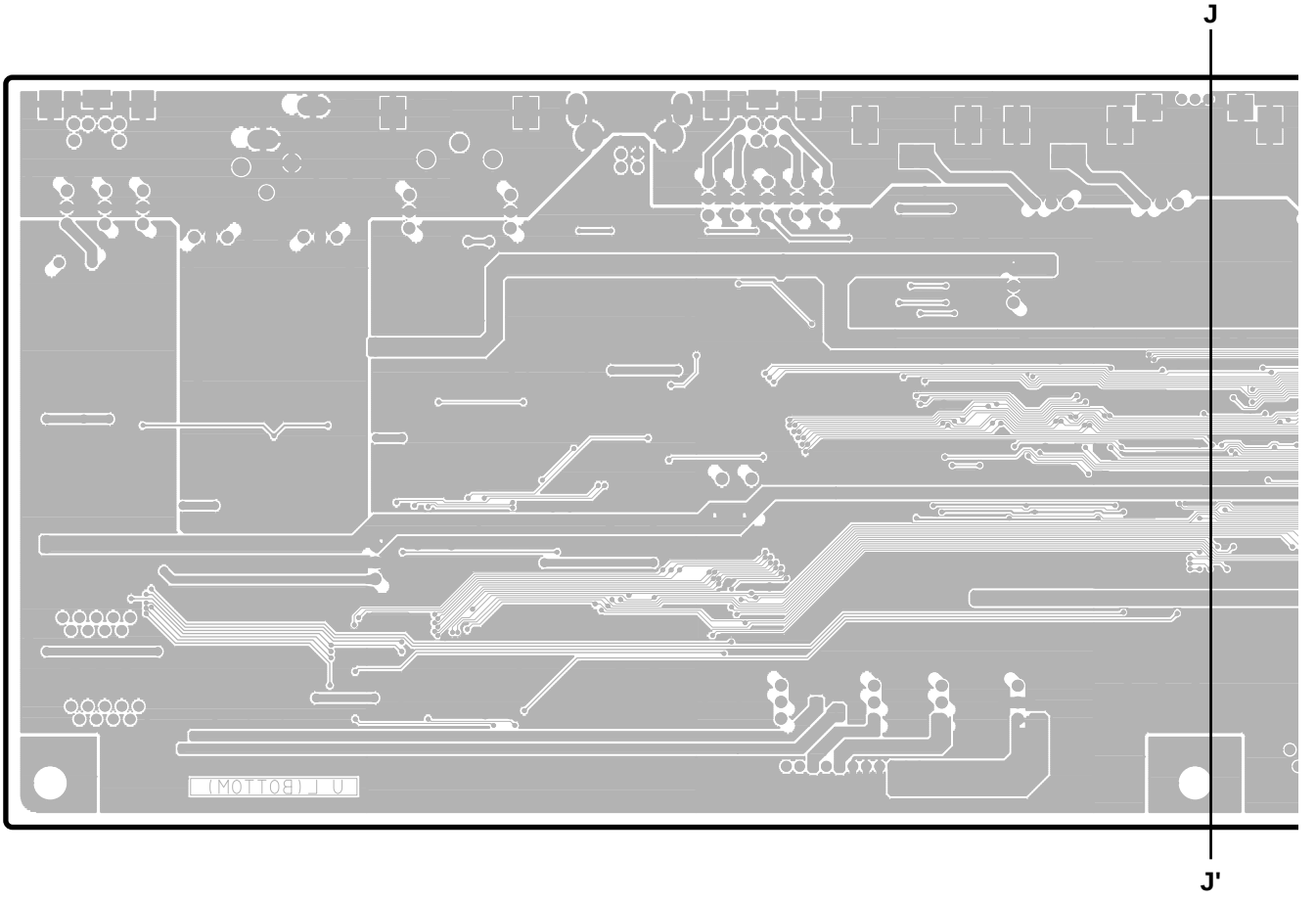


to BRG-CN014

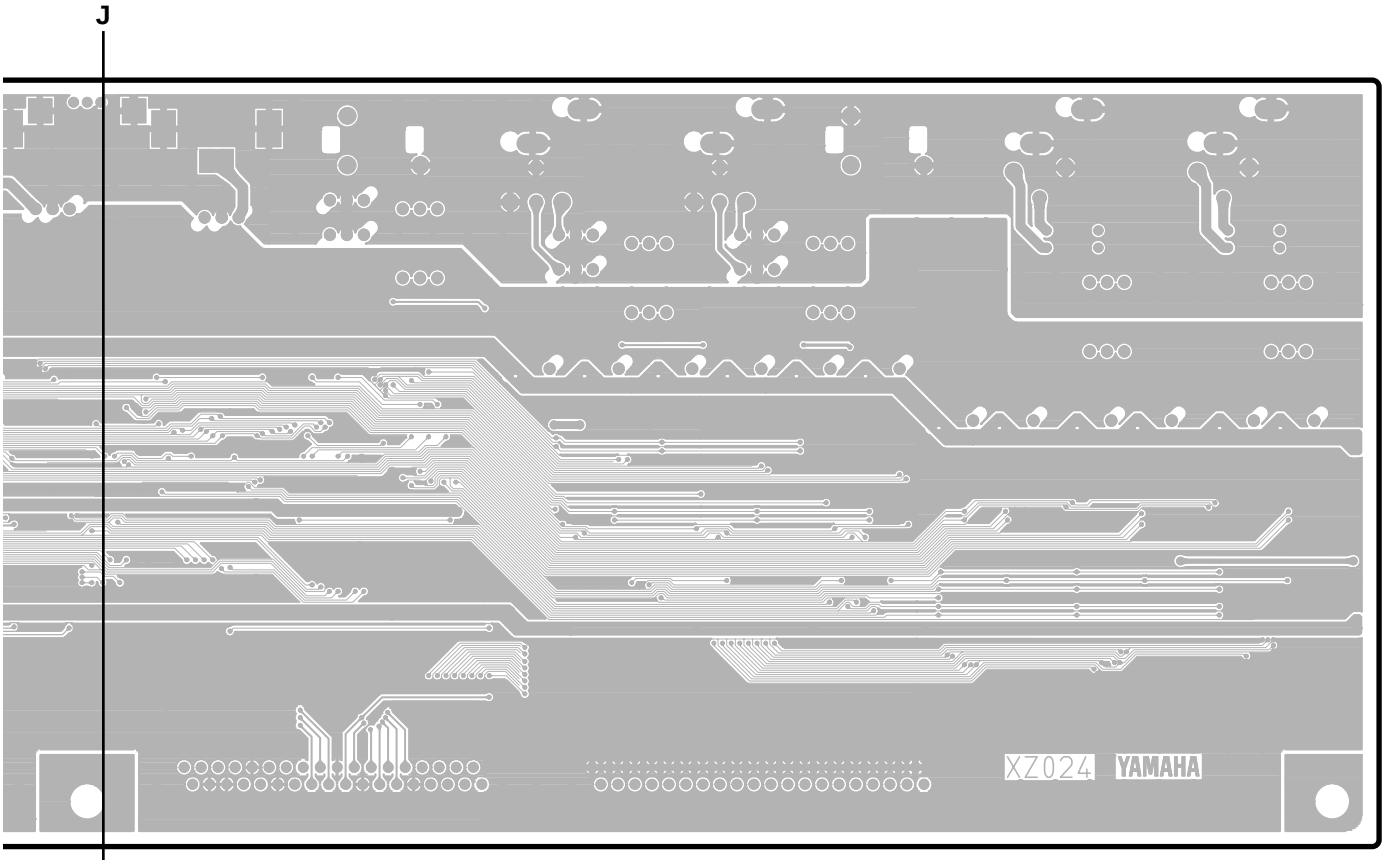
Component side

3NA-V628590-2 ⚠1

• JK1 Circuit Board



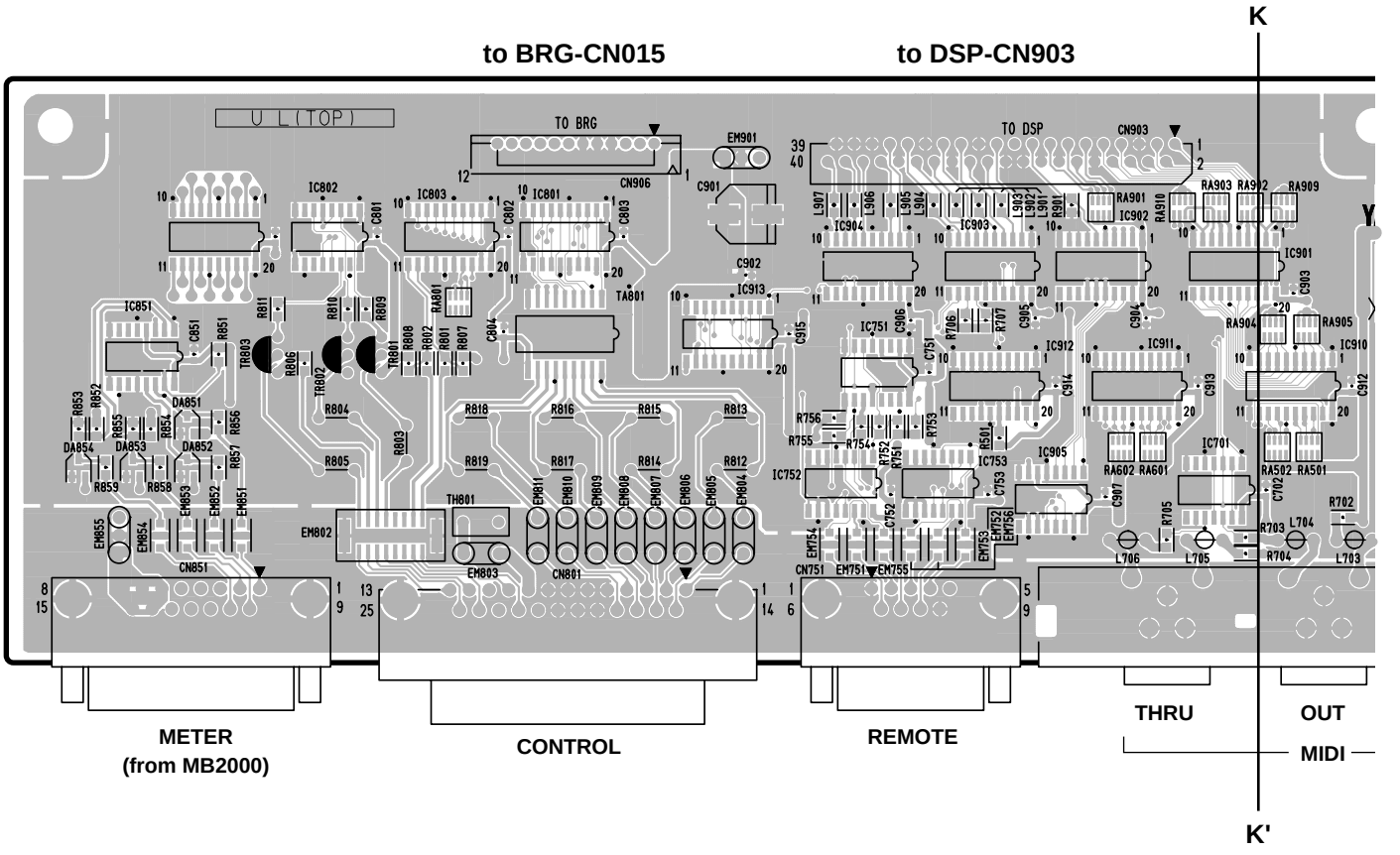
3NA-V628590-2 ⚠1

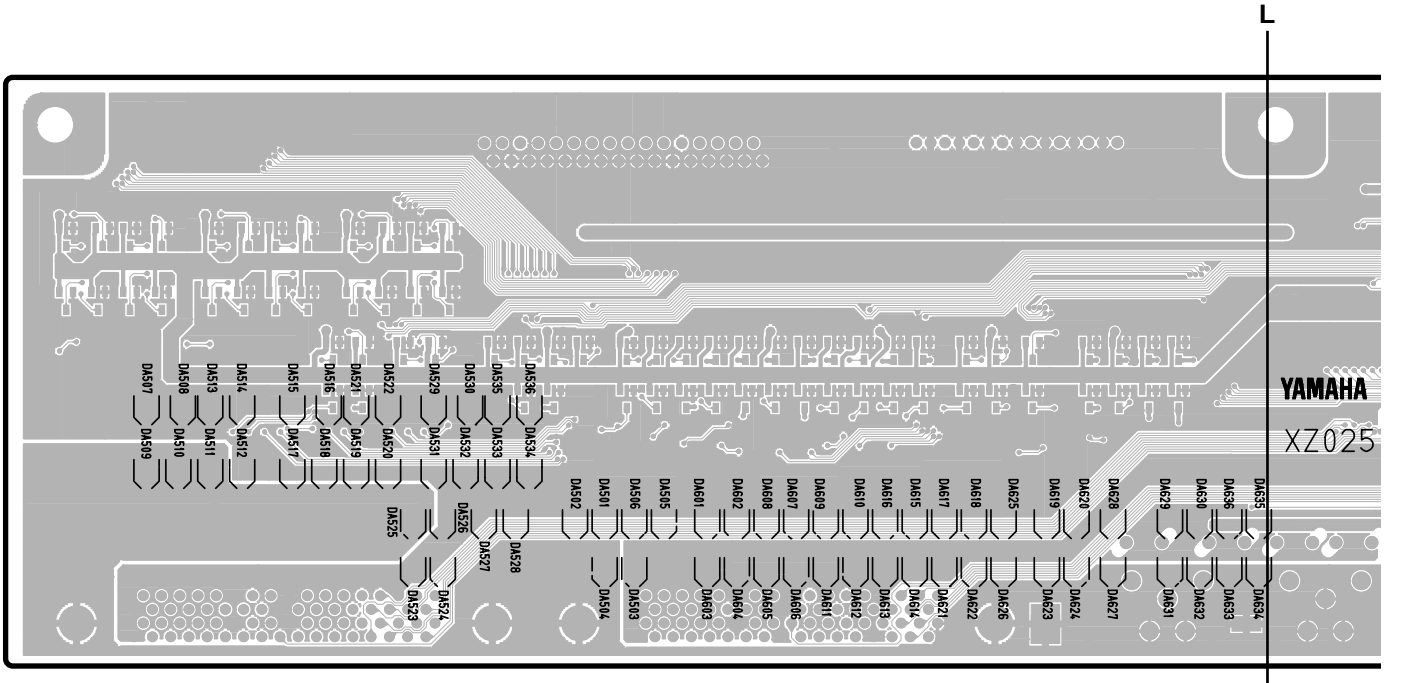


Pattern side

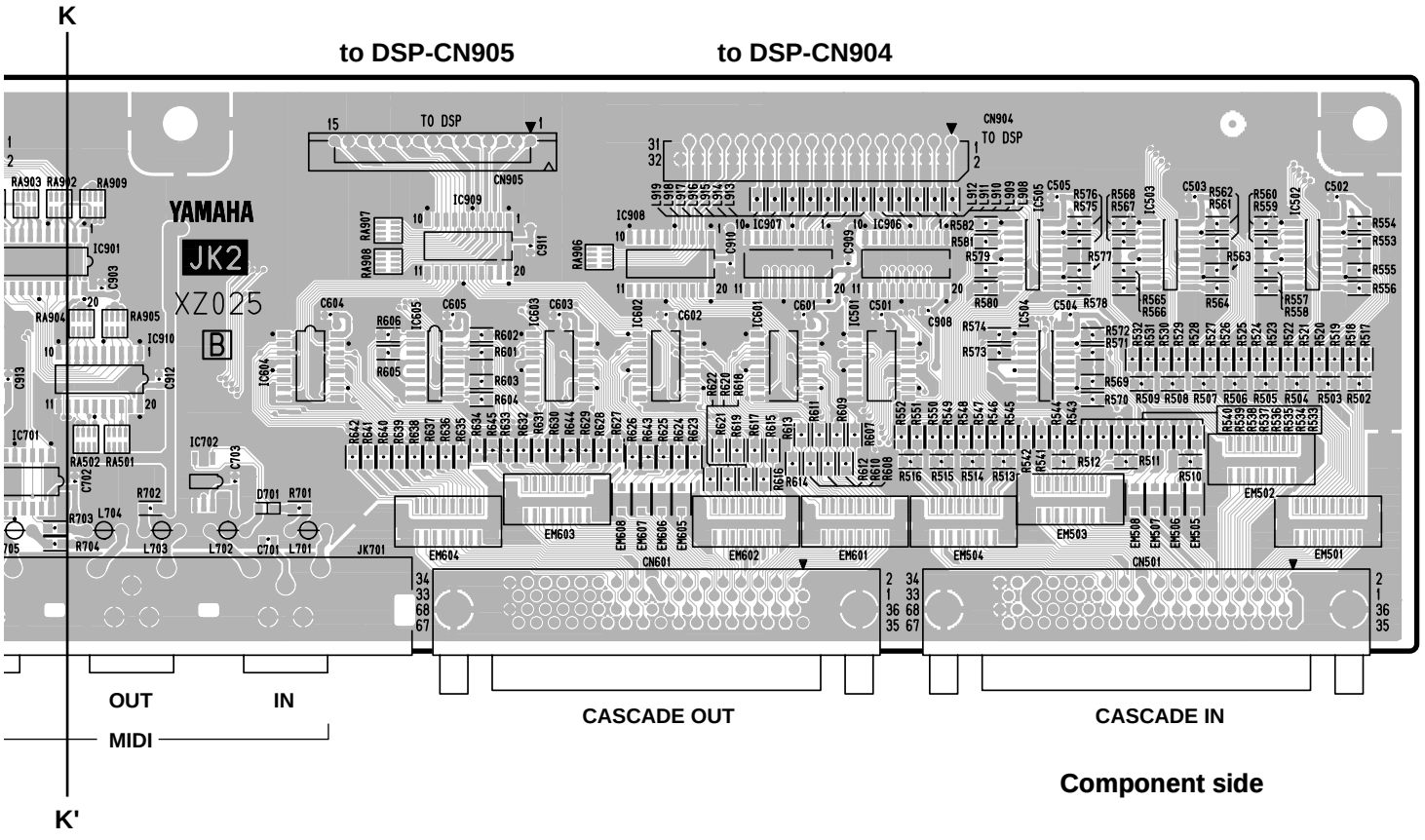
3NA-V628590-2 /1\

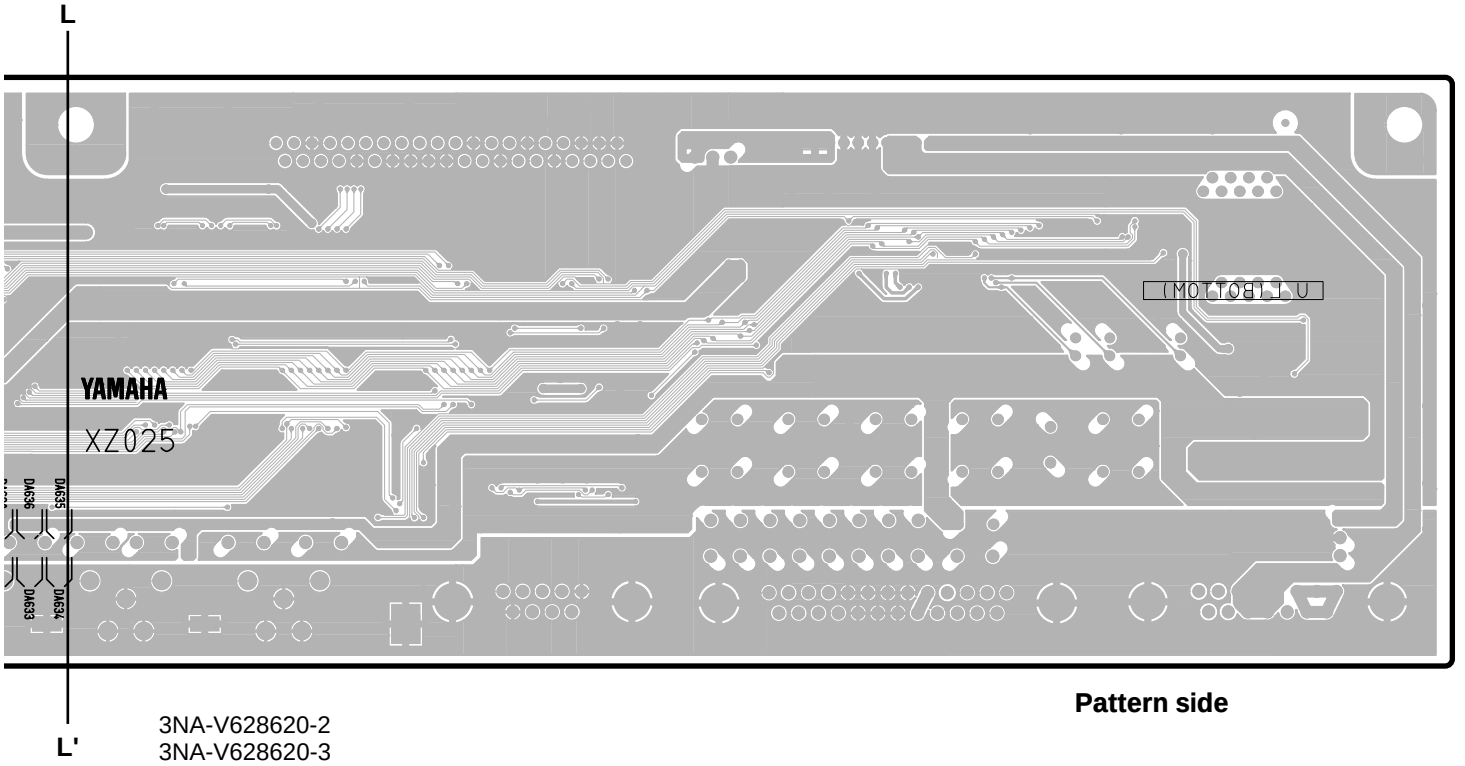
• JK2 Circuit Board





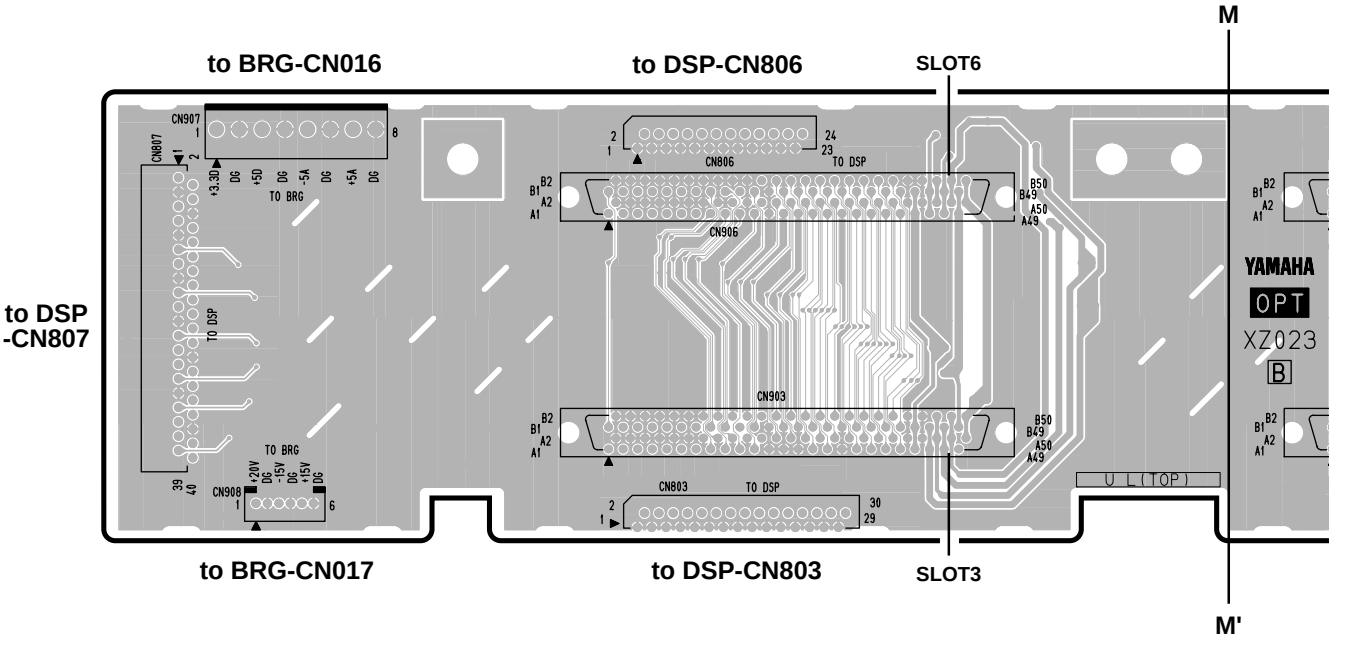
3NA-V628620-2
3NA-V628620-3

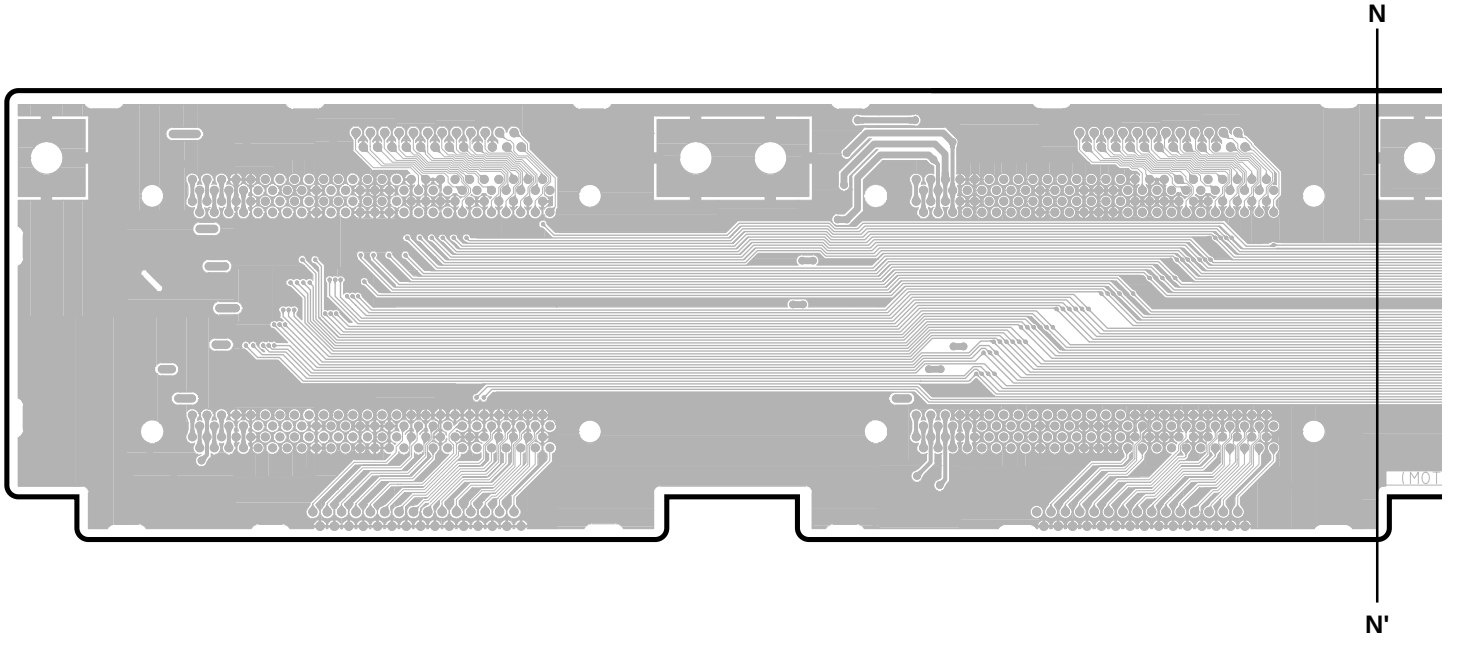




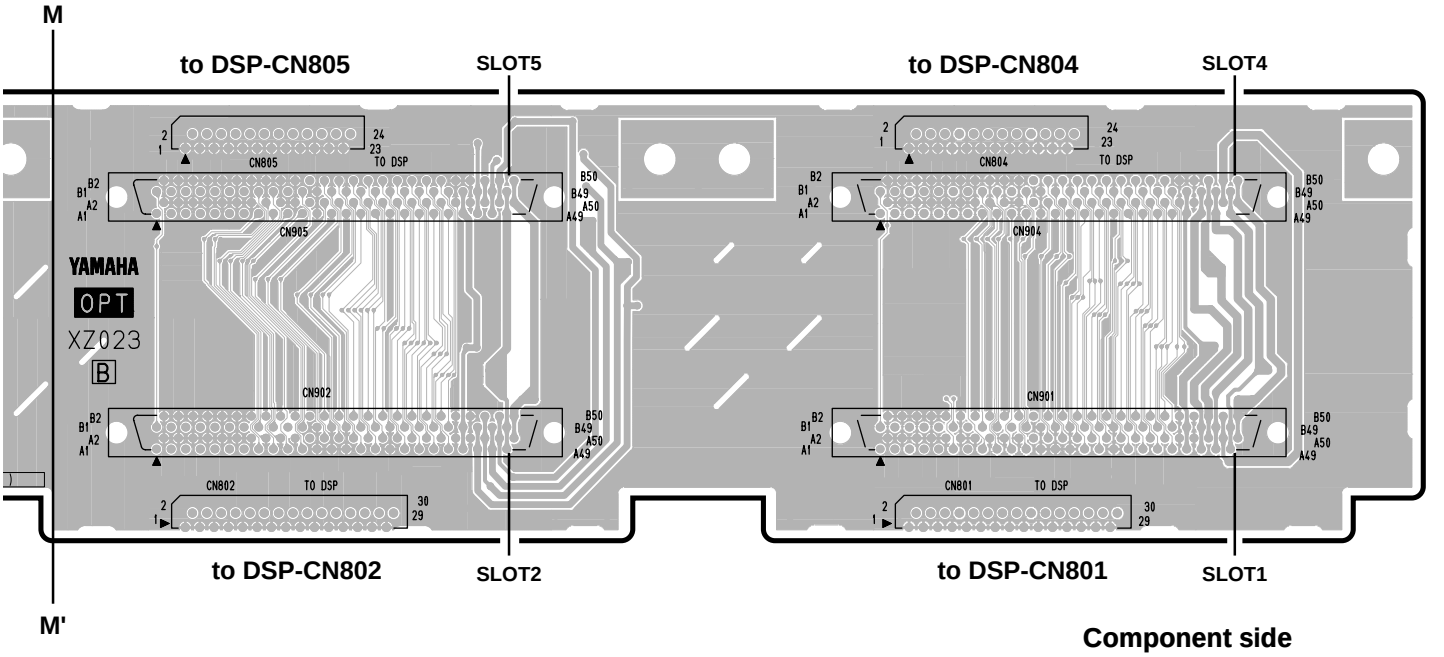
3NA-V628620-2
3NA-V628620-3

• OPTCircuit Board

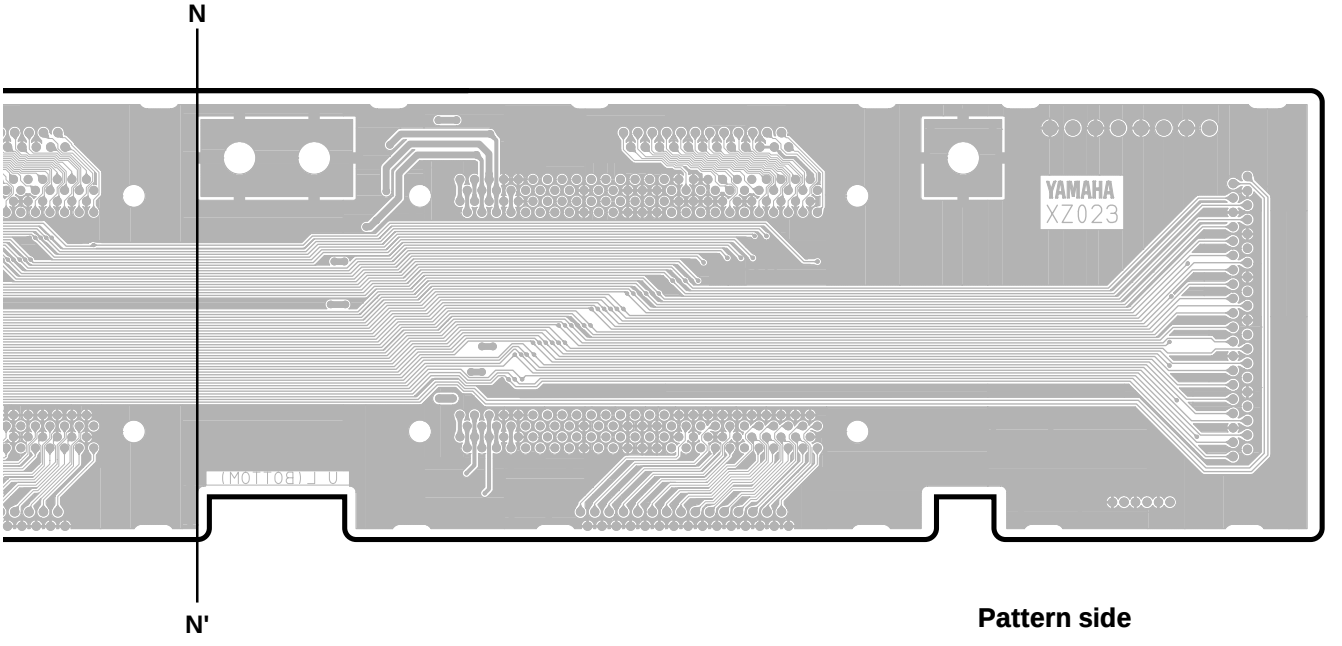




3NA-V628580-2



Component side



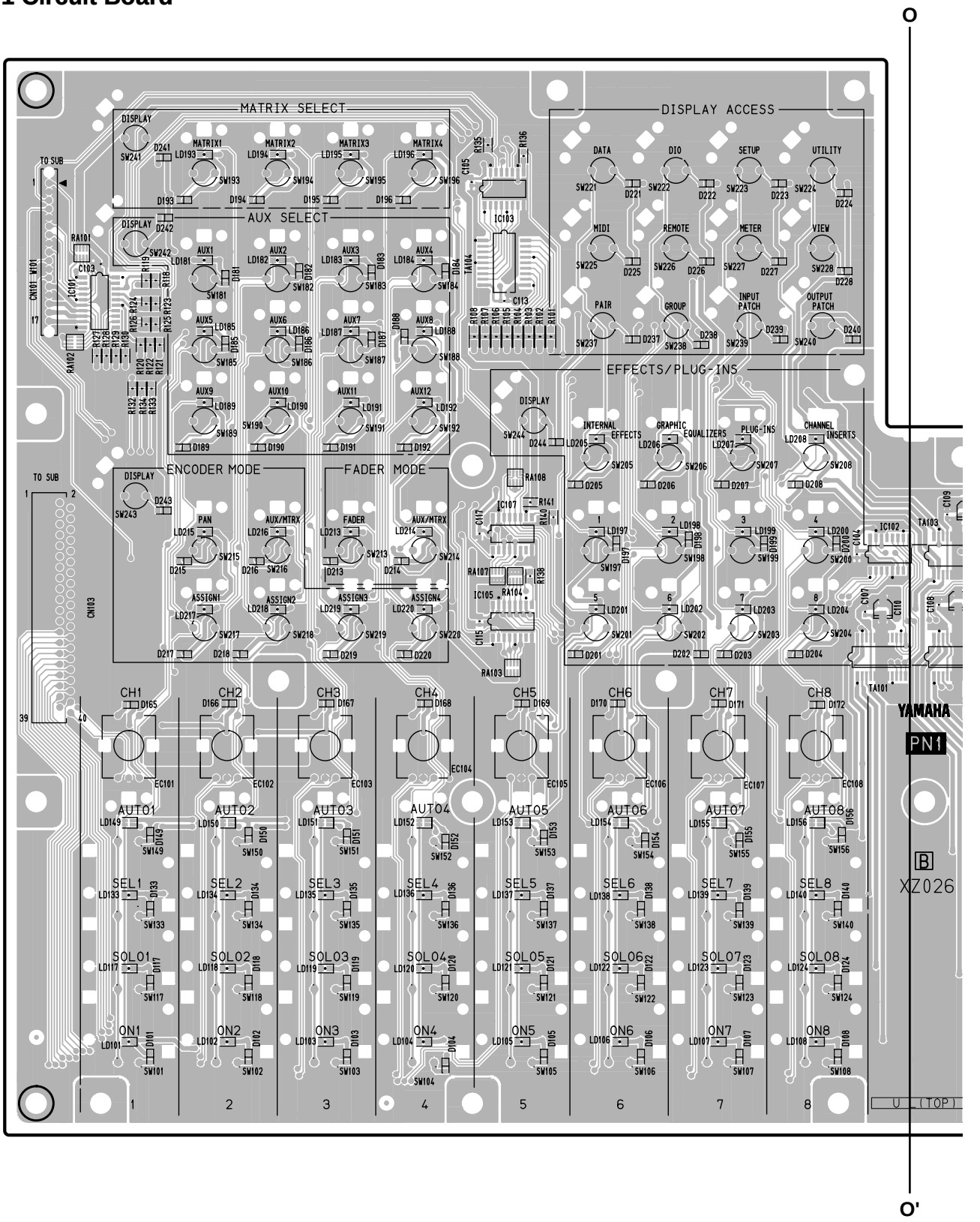
Pattern side

3NA-V628580-2

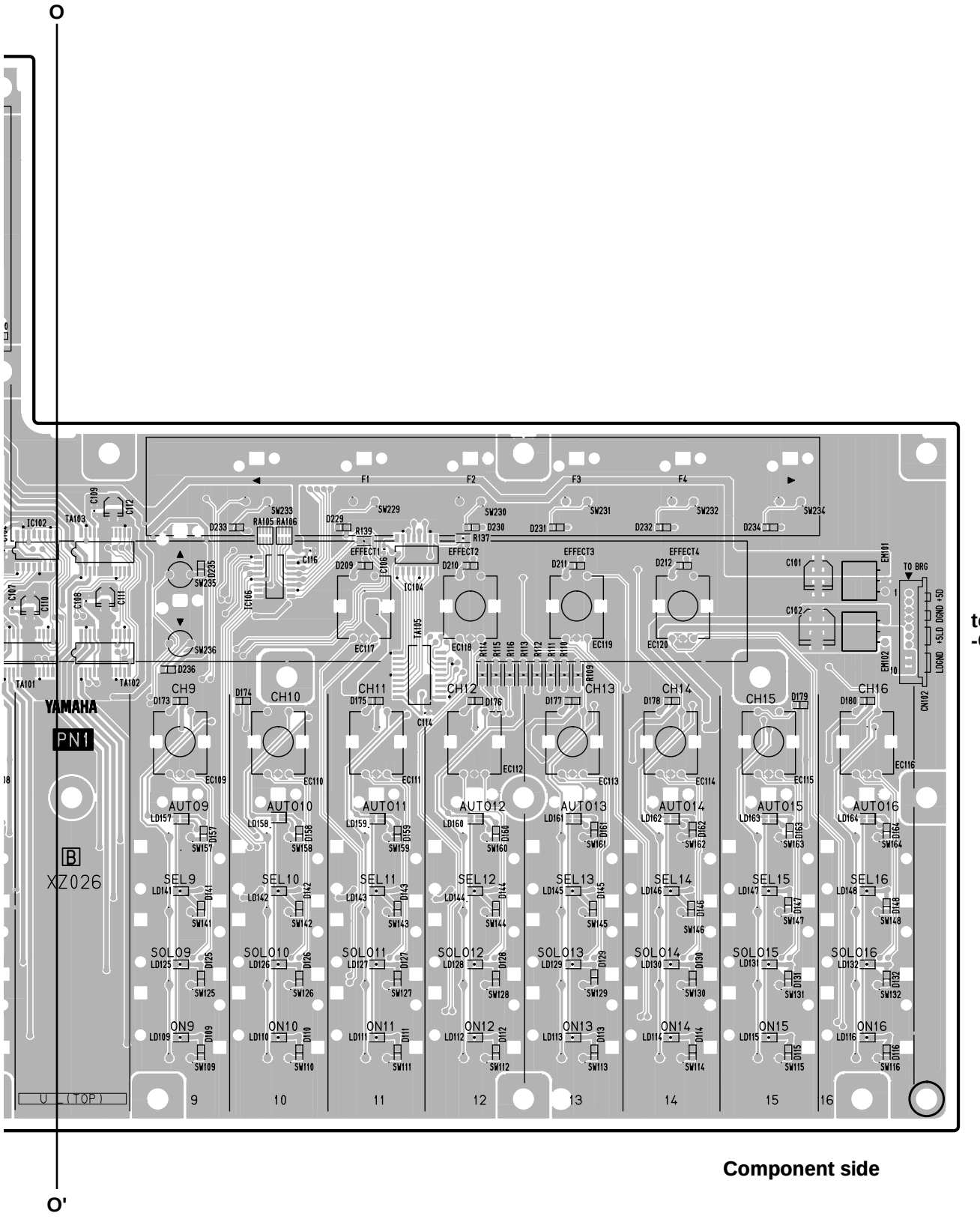
• PN1 Circuit Board

to SUB -CN115

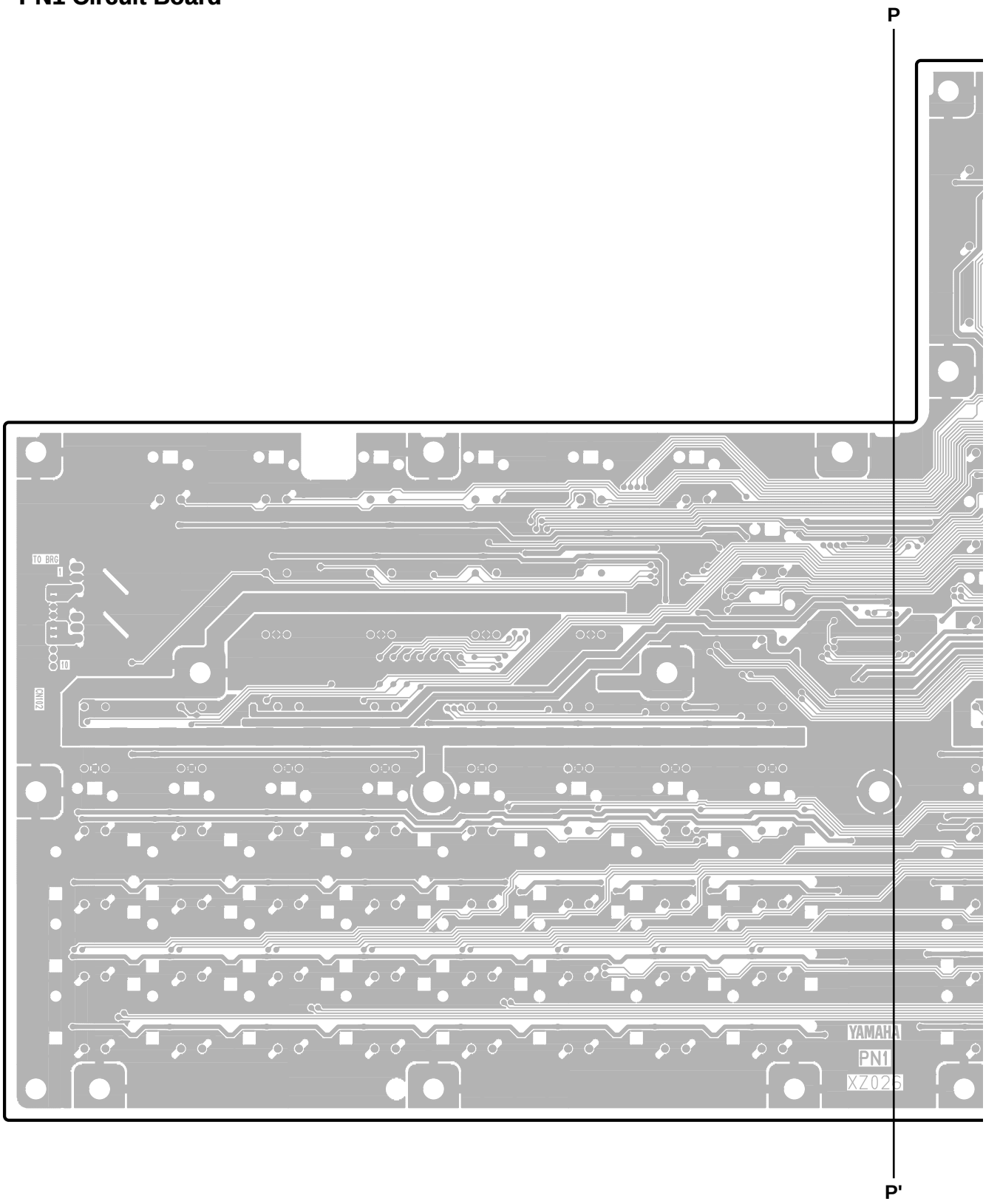
to SUB -CN111



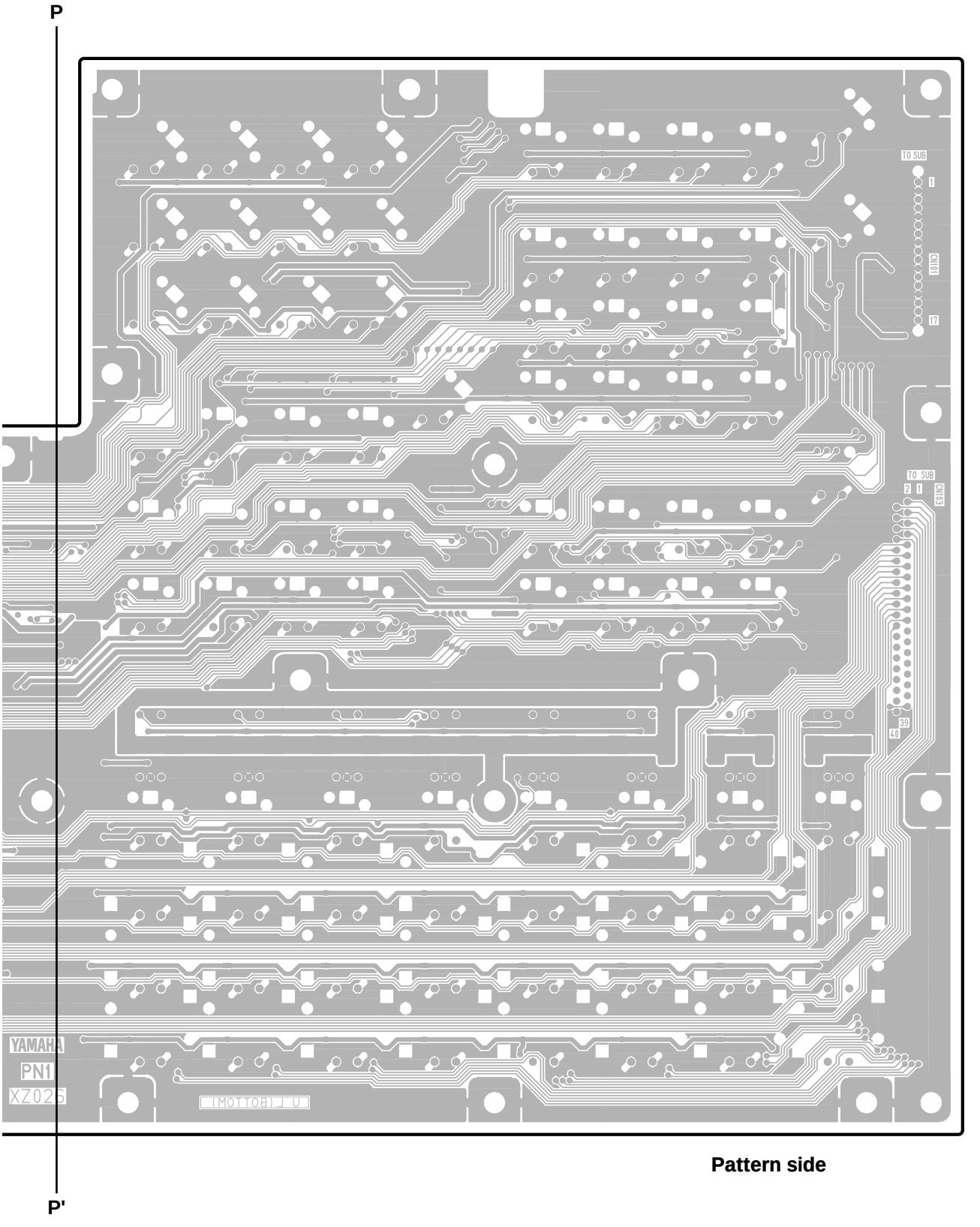
3NA-V628630-2 /1


O
O'
YAMAHA
PN1
B
XZ026
TO BRG
to BRG
-CN019
Component side
3NA-V628630-2 /1

• PN1 Circuit Board



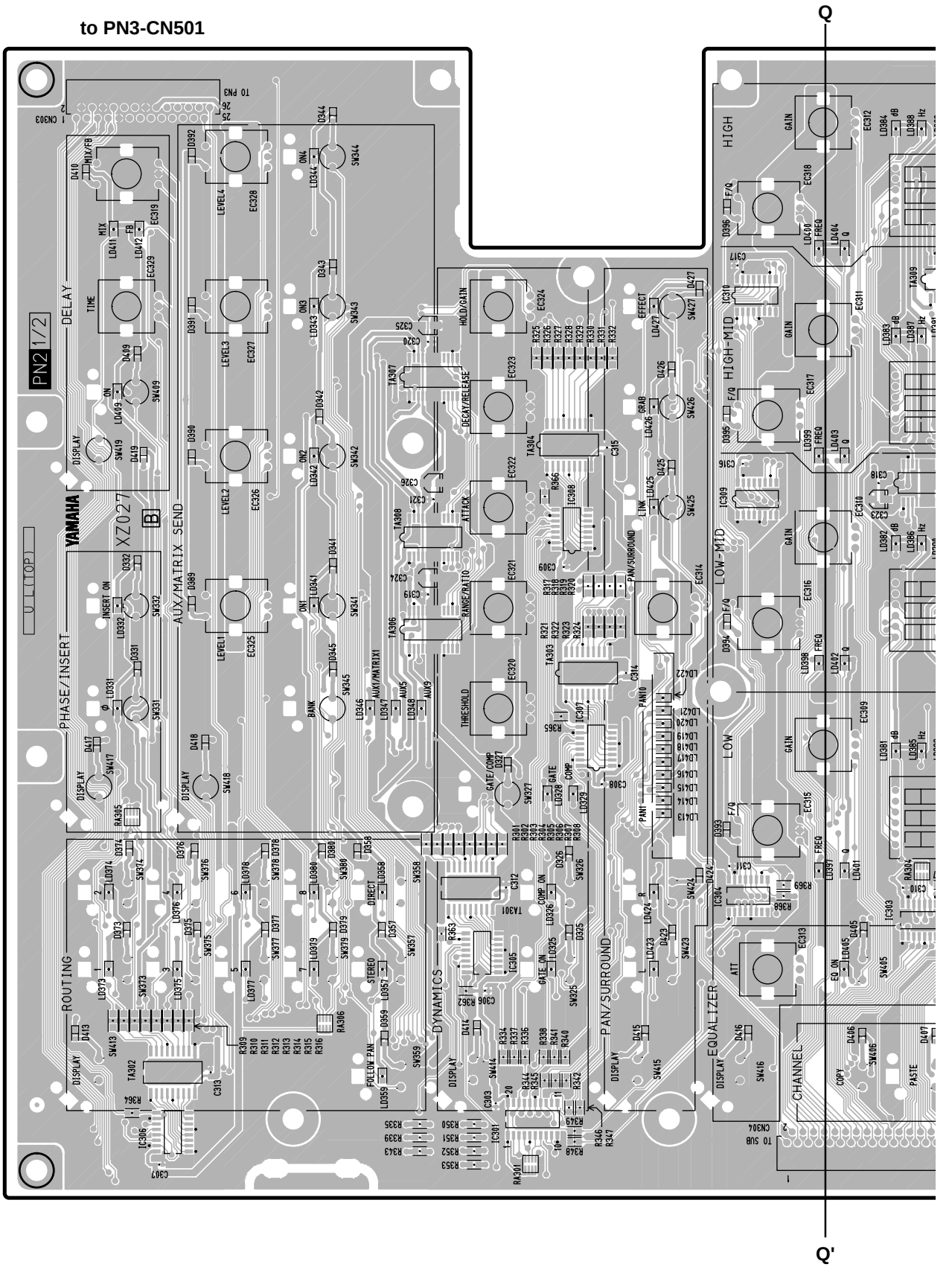
3NA-V628630-2 /1



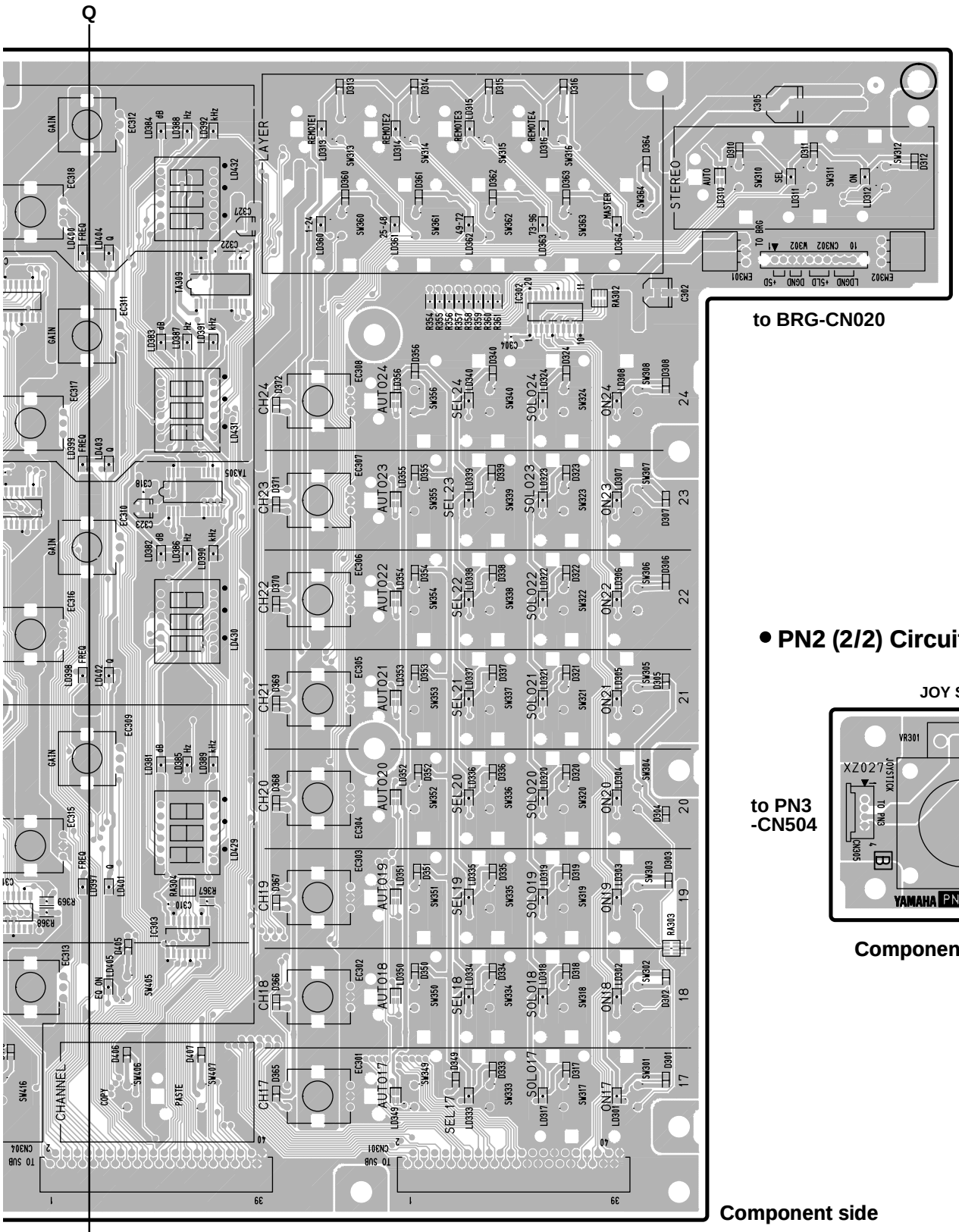
Pattern side

3NA-V628630-2 /1\

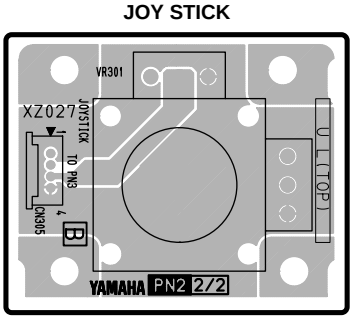
• PN2 (1/2) Circuit Board



3NA-V628640-2 ⚠1



• PN2 (2/2) Circuit Board



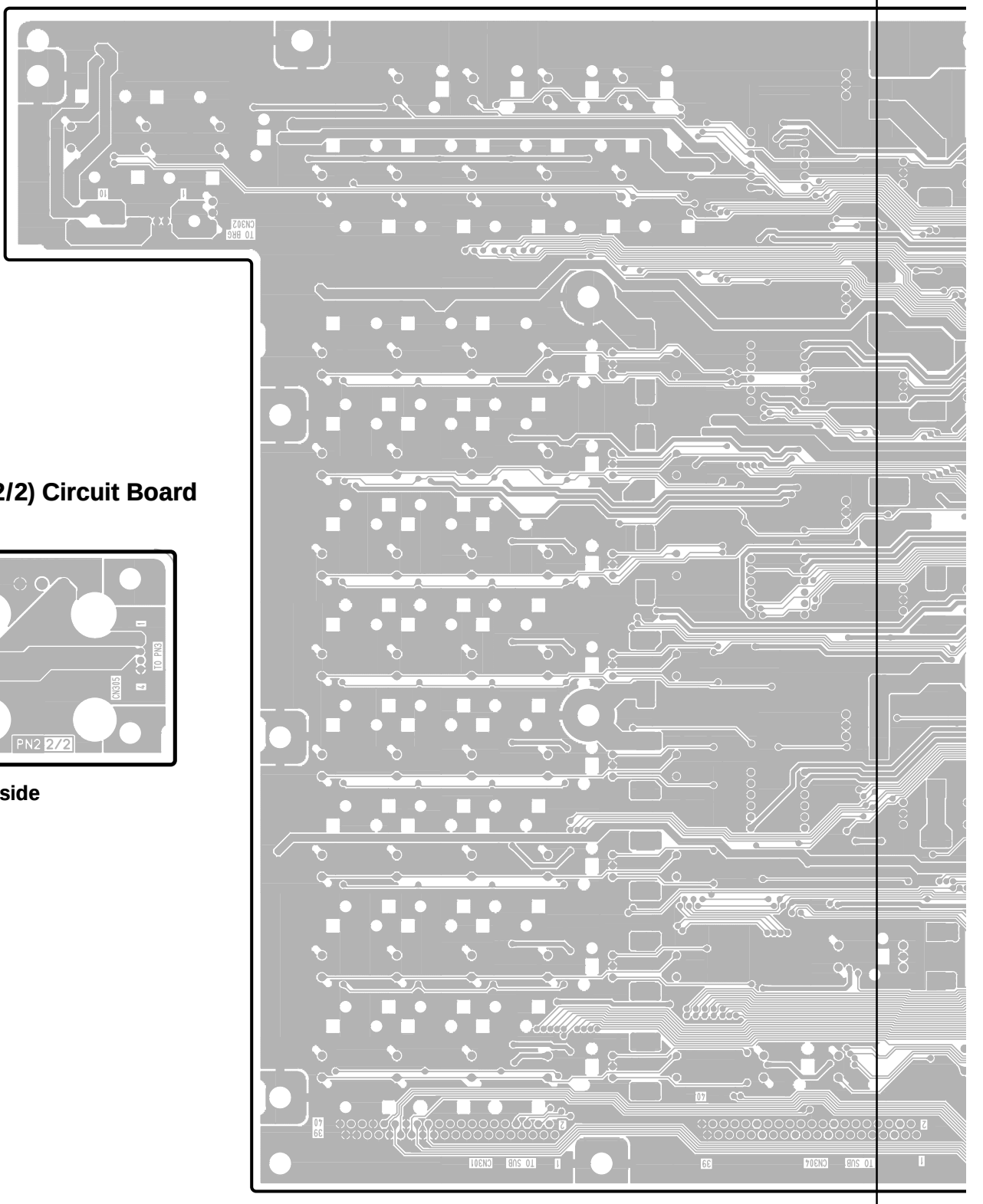
to PN3 -CN504

Component side

3NA-V628640-2 /1\

• PN2 (1/2) Circuit Board

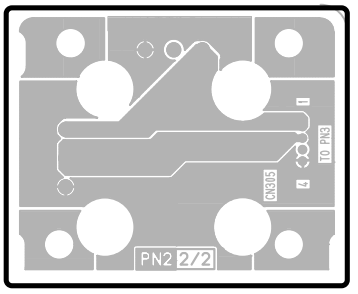
R



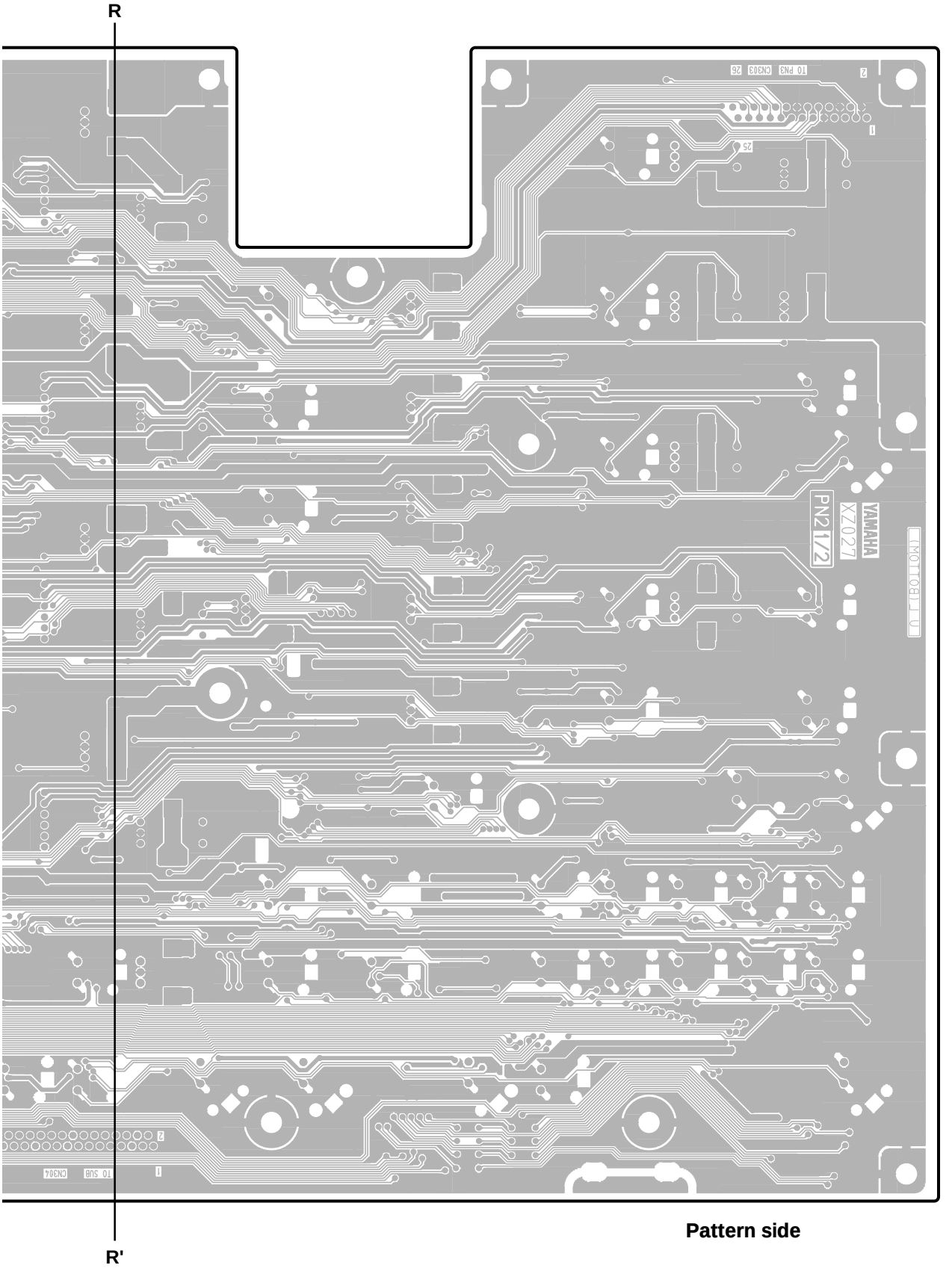
R'

3NA-V628640-2 ⚠1

• PN2 (2/2) Circuit Board



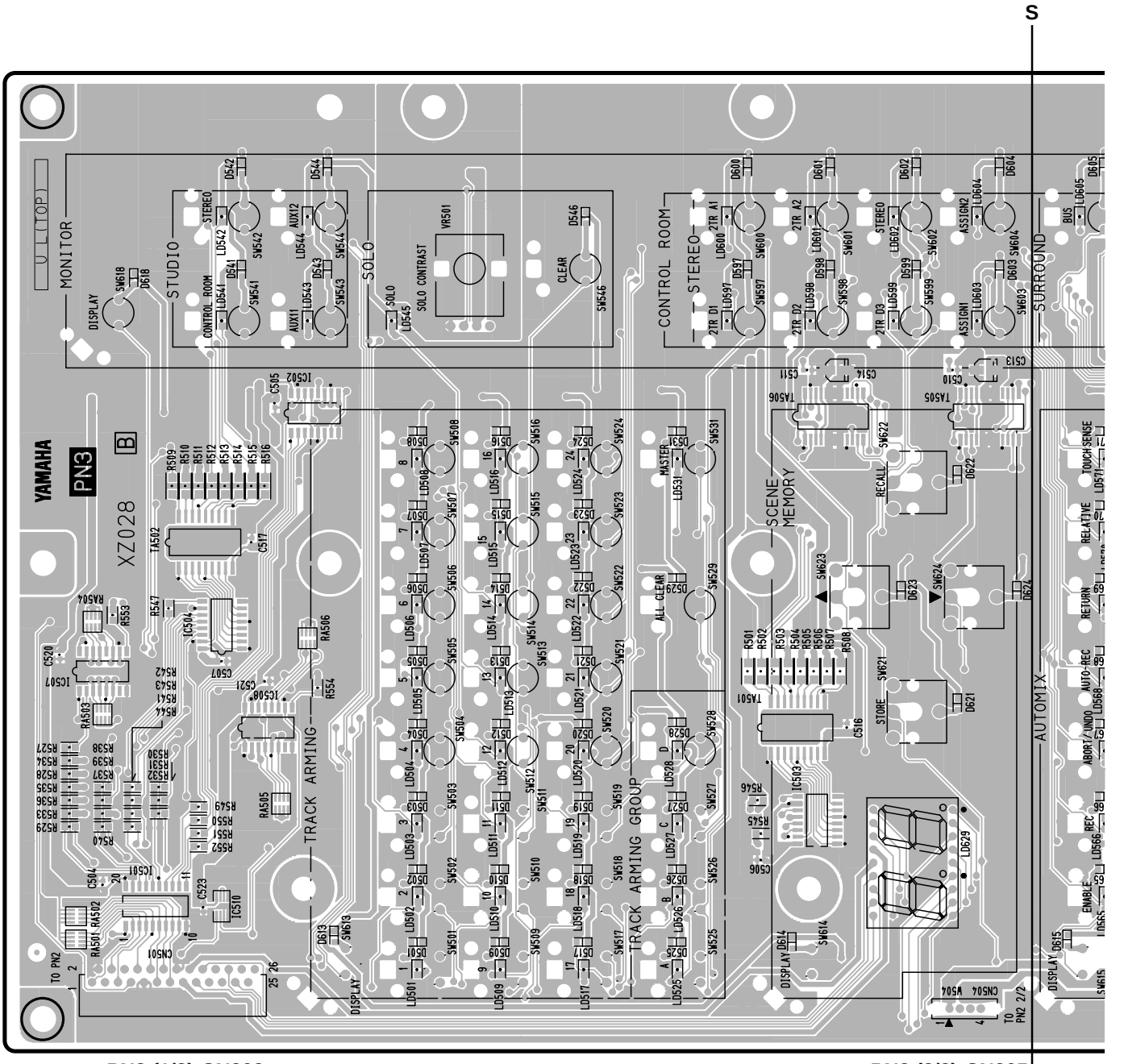
Pattern side

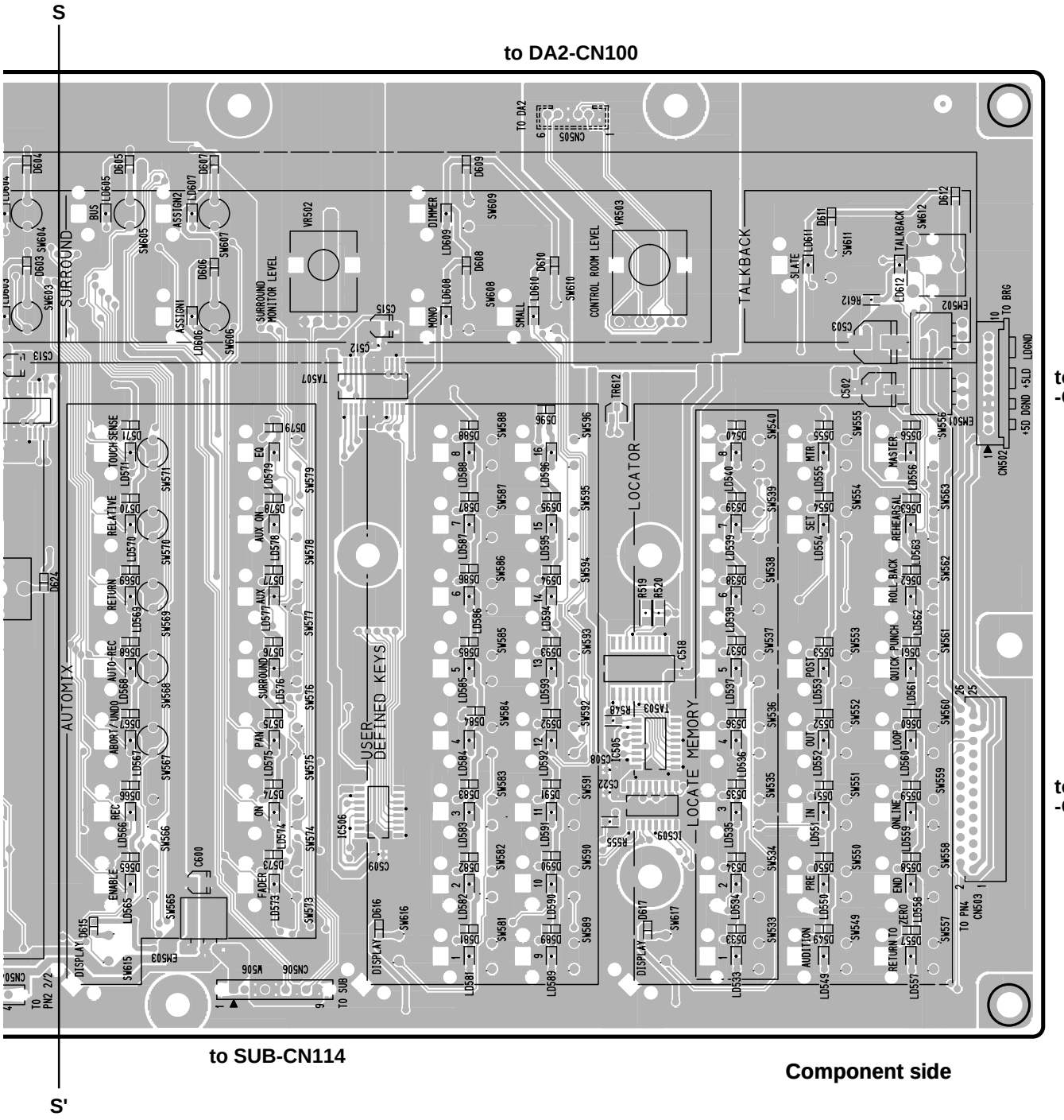


Pattern side

3NA-V628640-2 /1\

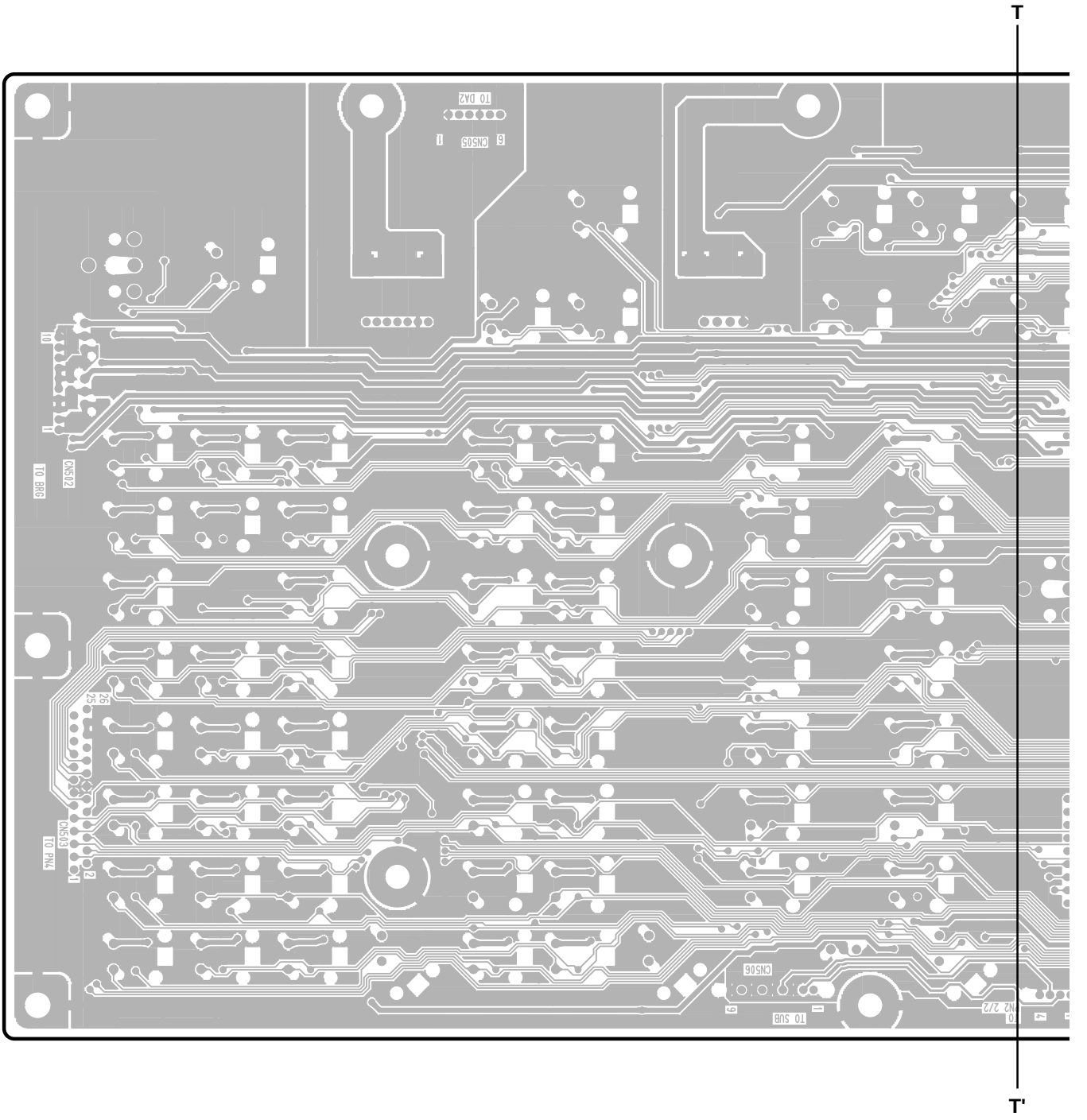
• PN3 Circuit Board



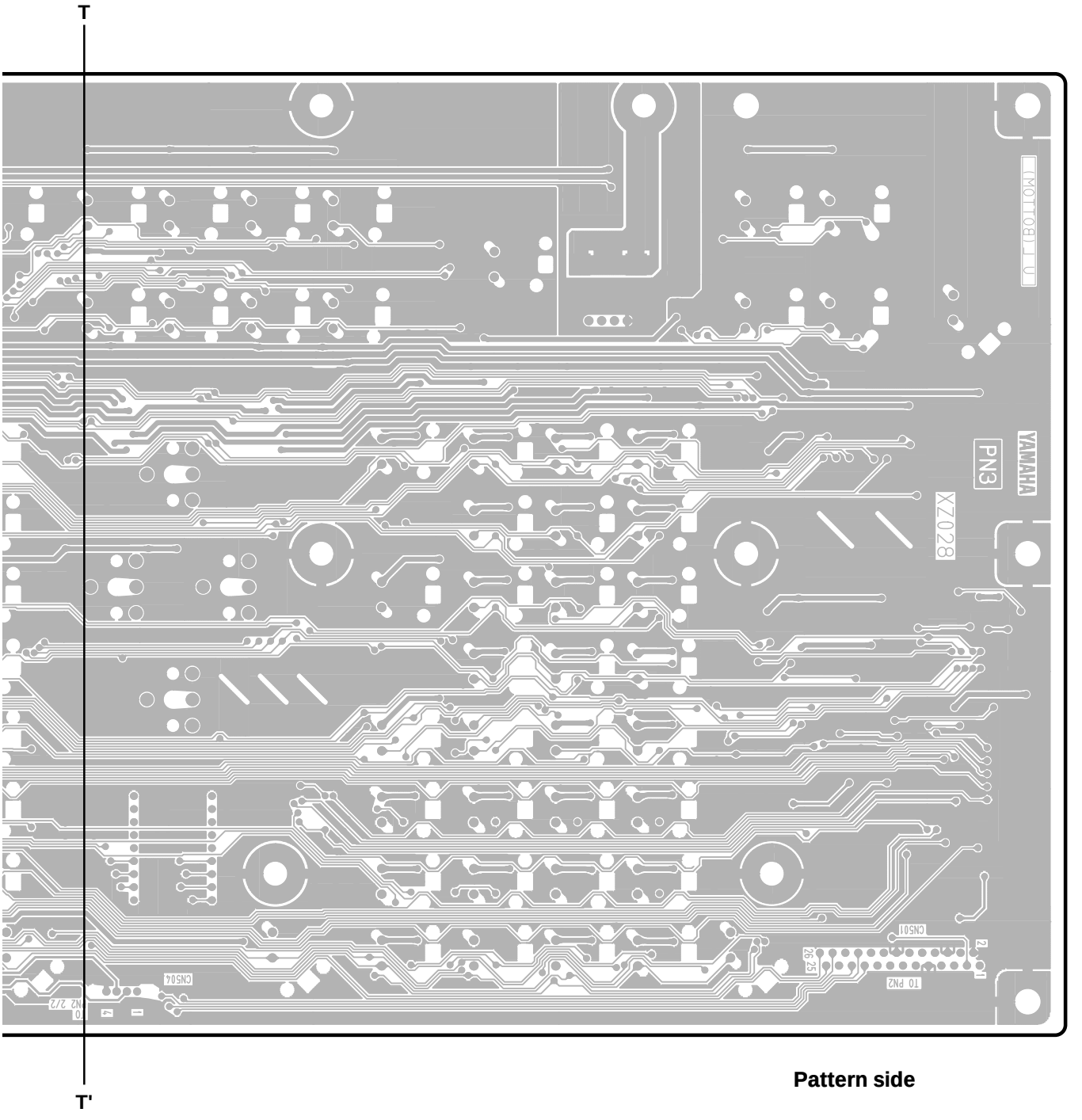


3NA-V628650-2 ⚠1

• PN3 Circuit Board



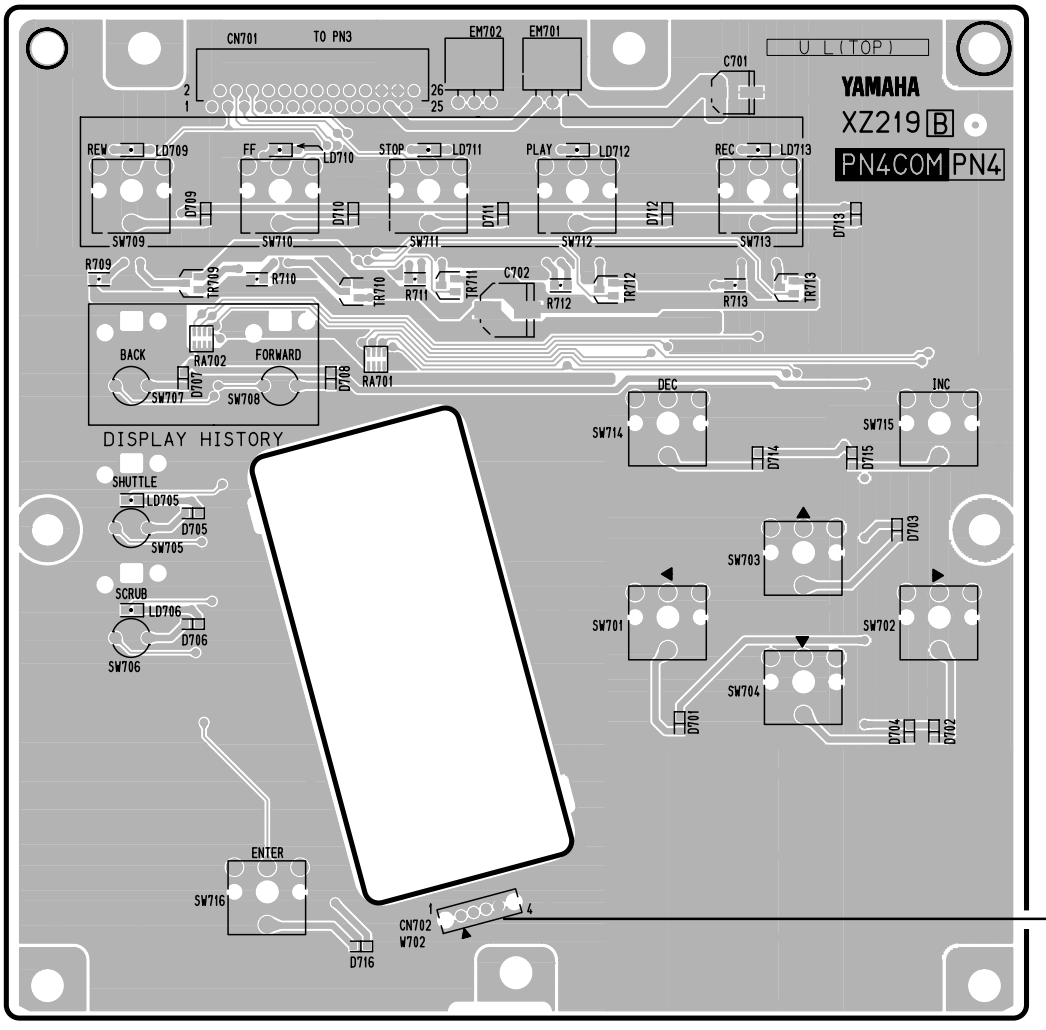
3NA-V628650-2 ⚠1

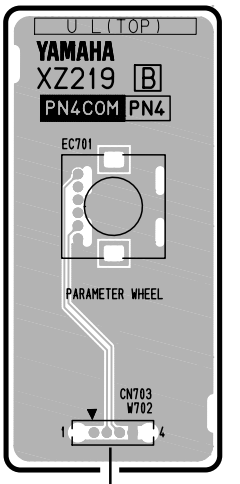


Pattern side

3NA-V628650-2 ⚠1

• PN4COM (PN4 (1/2)) Circuit Board

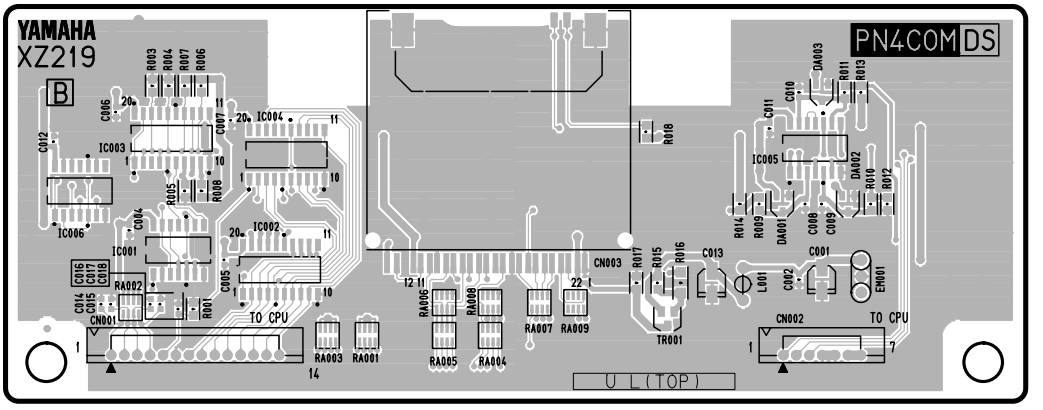




Component side

• PN4COM (PN4 (2/2)) Circuit Board

• PN4COM (DS) Circuit Board

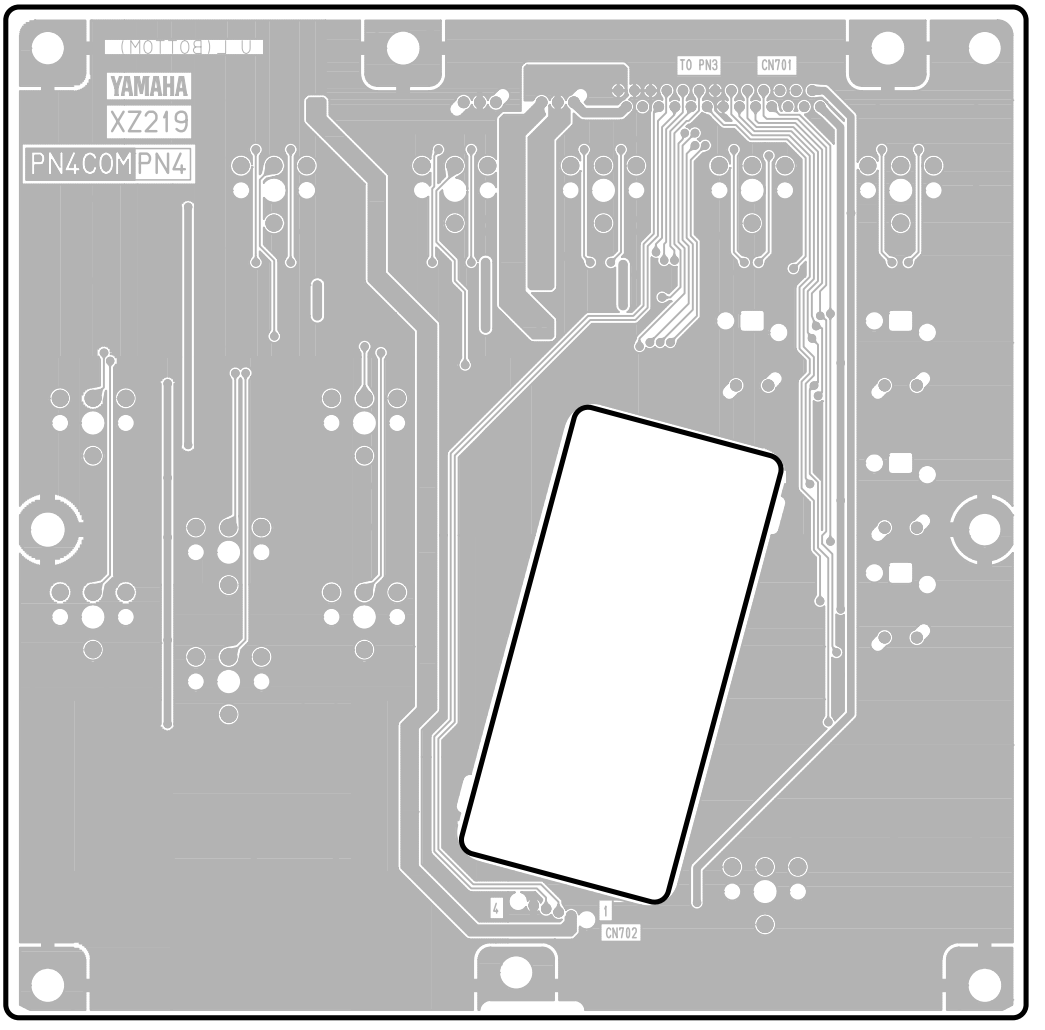


to CPU-CN108 **SMART MEDIA** **to CPU-CN107**

Component side

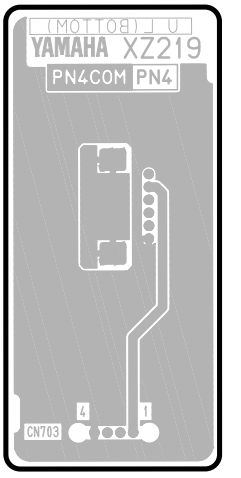
3NA-V830050-2 /1

• PN4COM (PN4 (1/2)) Circuit Board

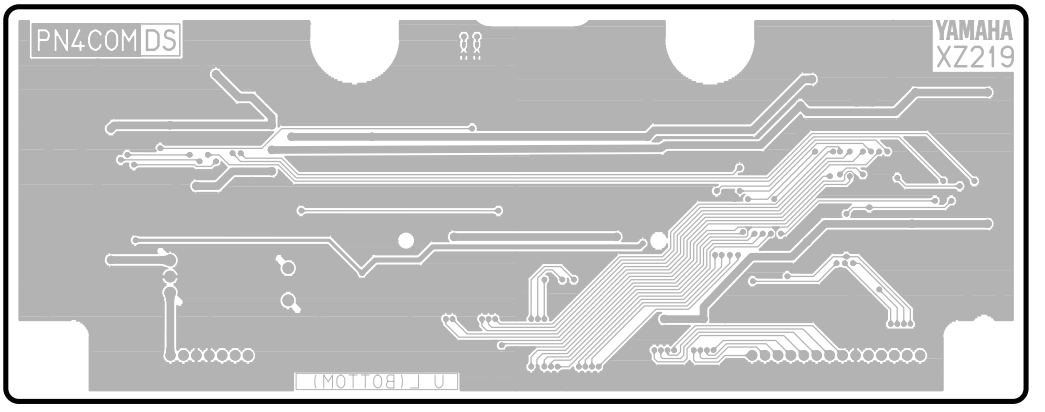


Pattern side

• PN4COM (PN4 (2/2)) Circuit Board



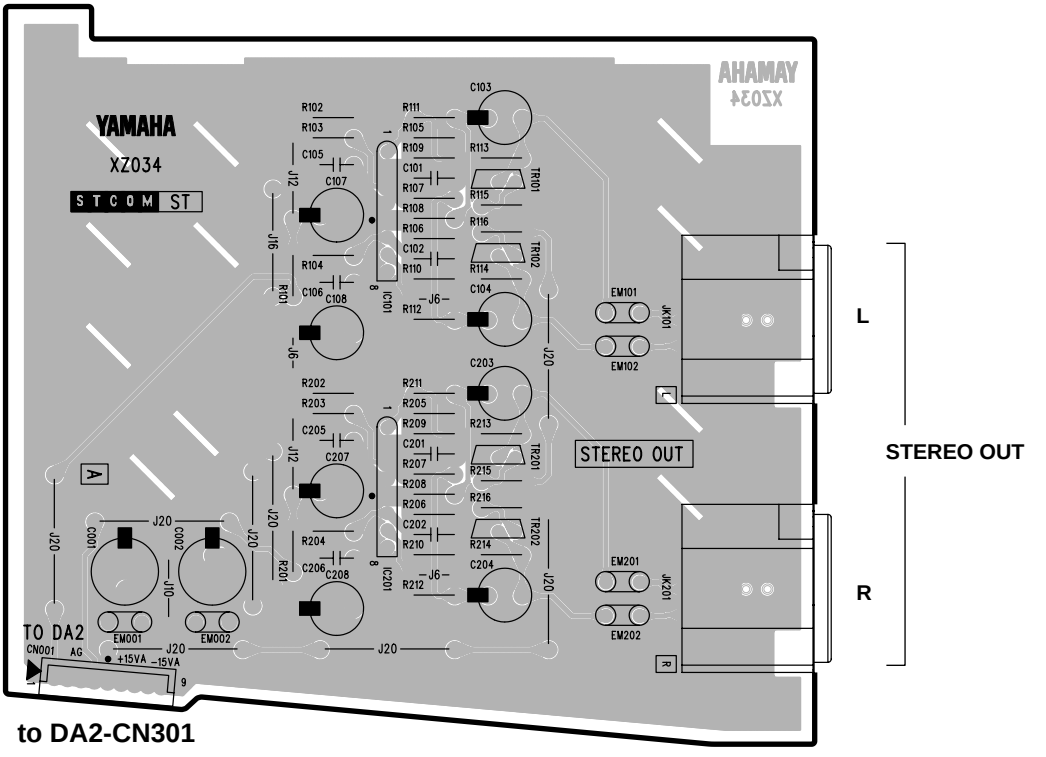
• PN4COM (DS) Circuit Board



Pattern side

3NA-V830050-2 ⚠1

• STCOM (ST) Circuit Board



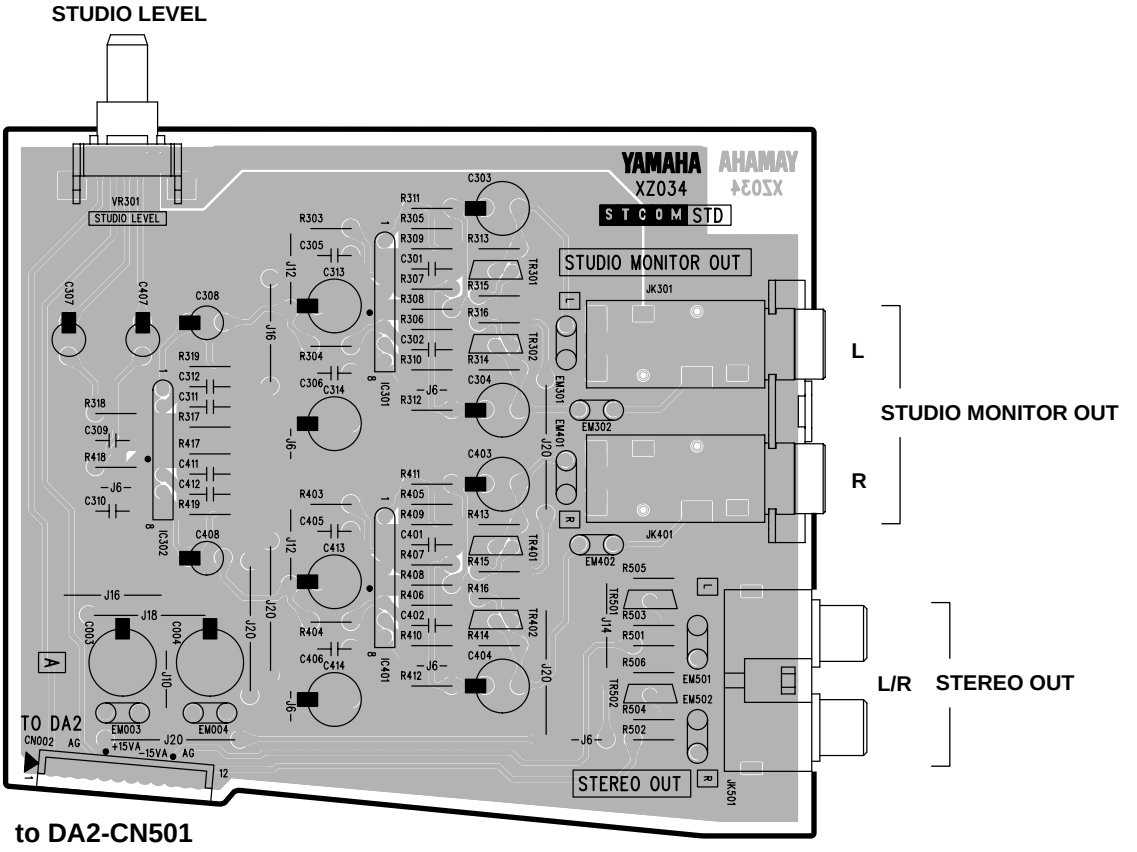
Component side



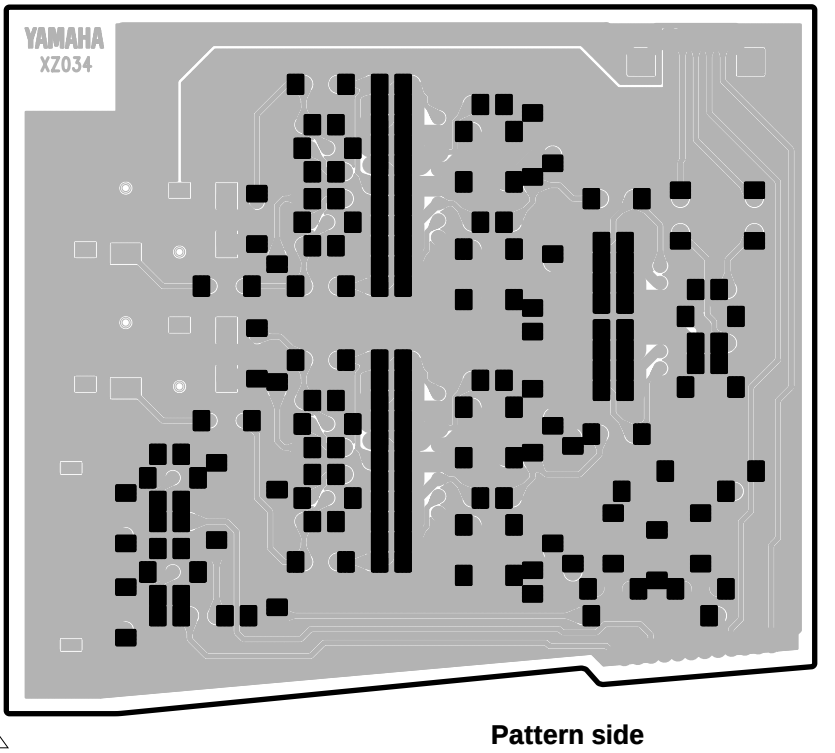
Pattern side

3NA-V628800-1 /1

• STCOM (STD) Circuit Board

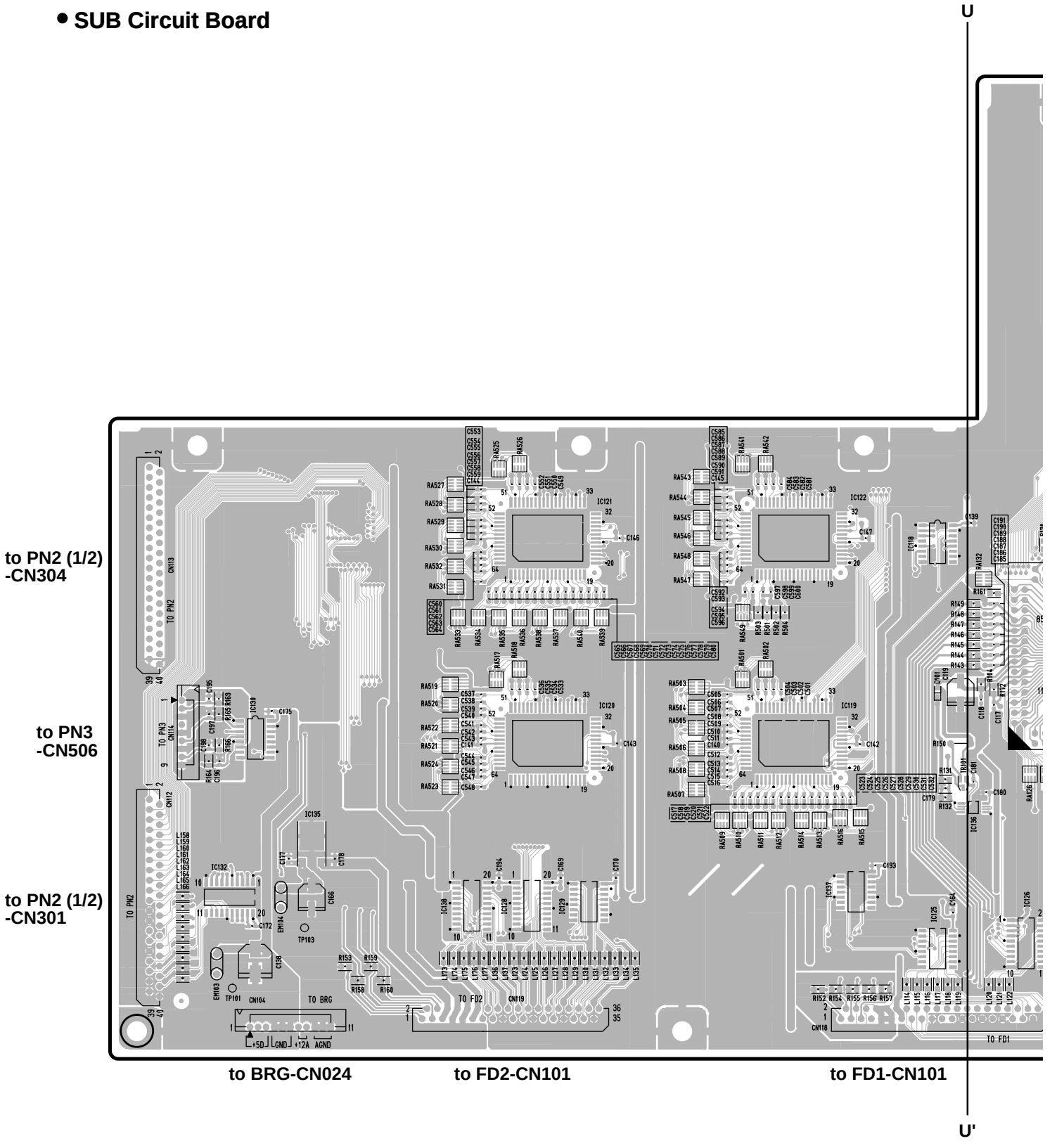


Component side



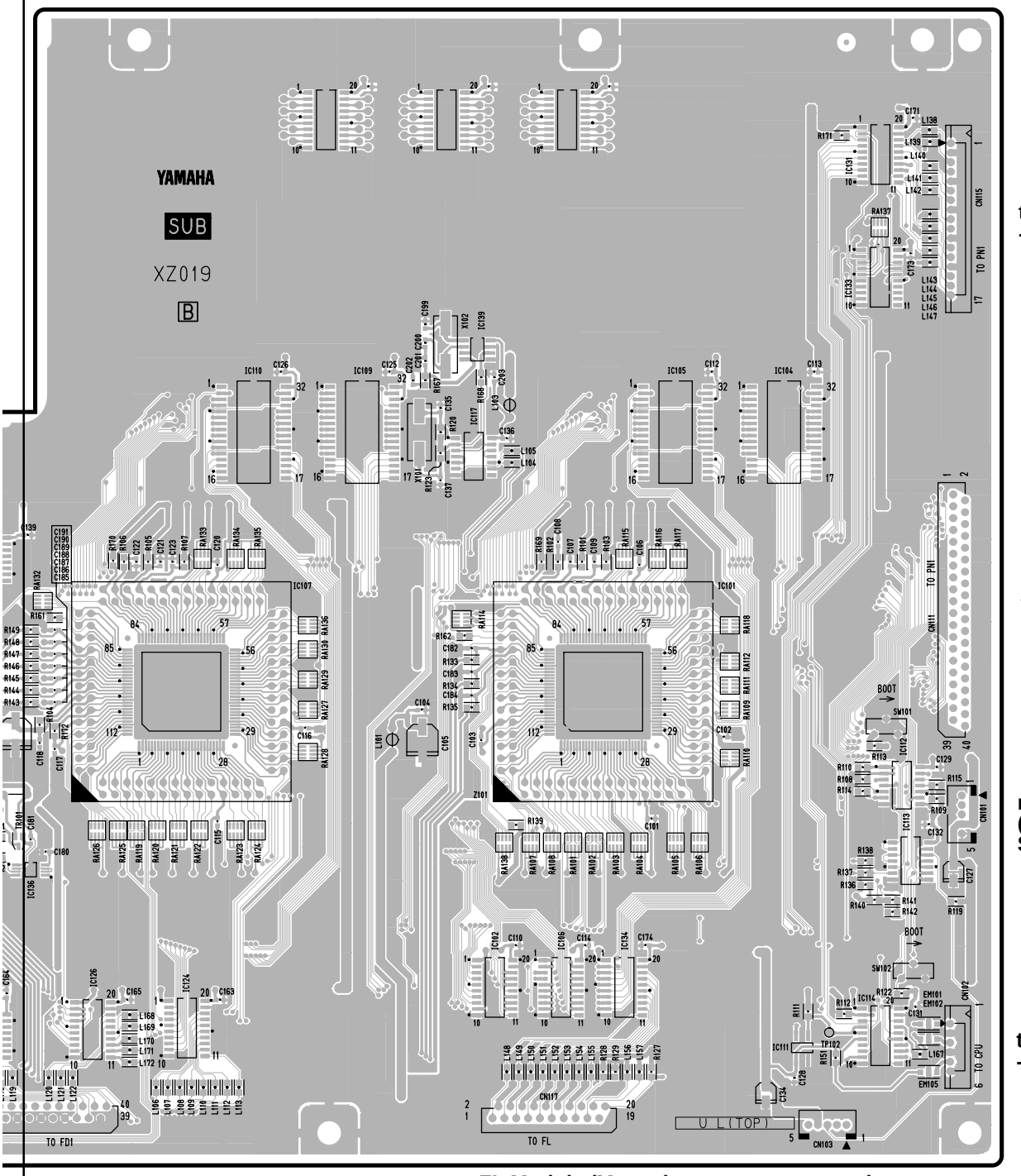
Pattern side

• SUB Circuit Board



3NA-V628530-2

U



to PN1
-CN101

to PN1
-CN103

not used
(for debug
SUB1 (IC101))

to CPU
-CN101

to FL Module (Master)
-CN2

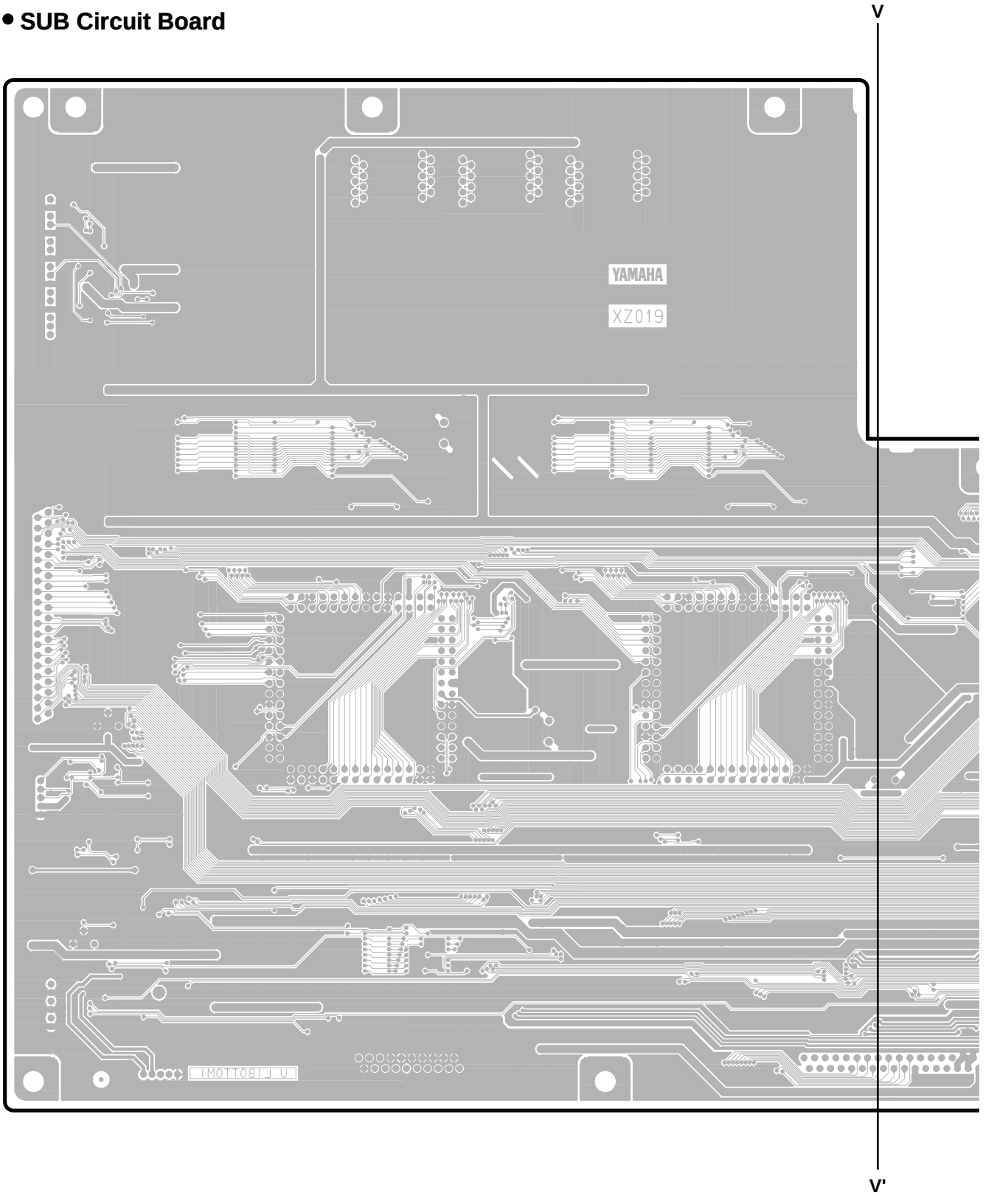
not used
(for check)

U'

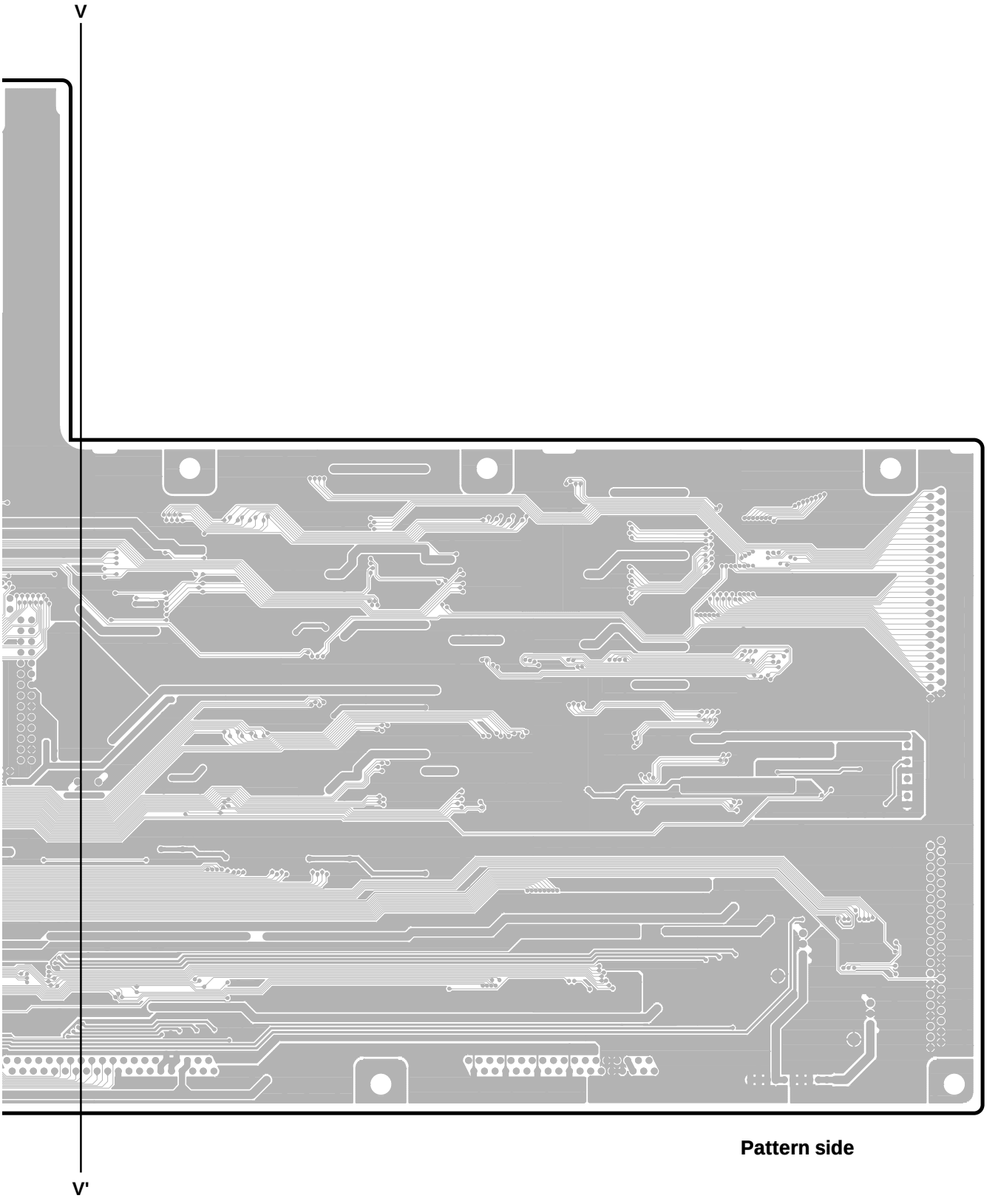
Component side

3NA-V628530-2

• SUB Circuit Board

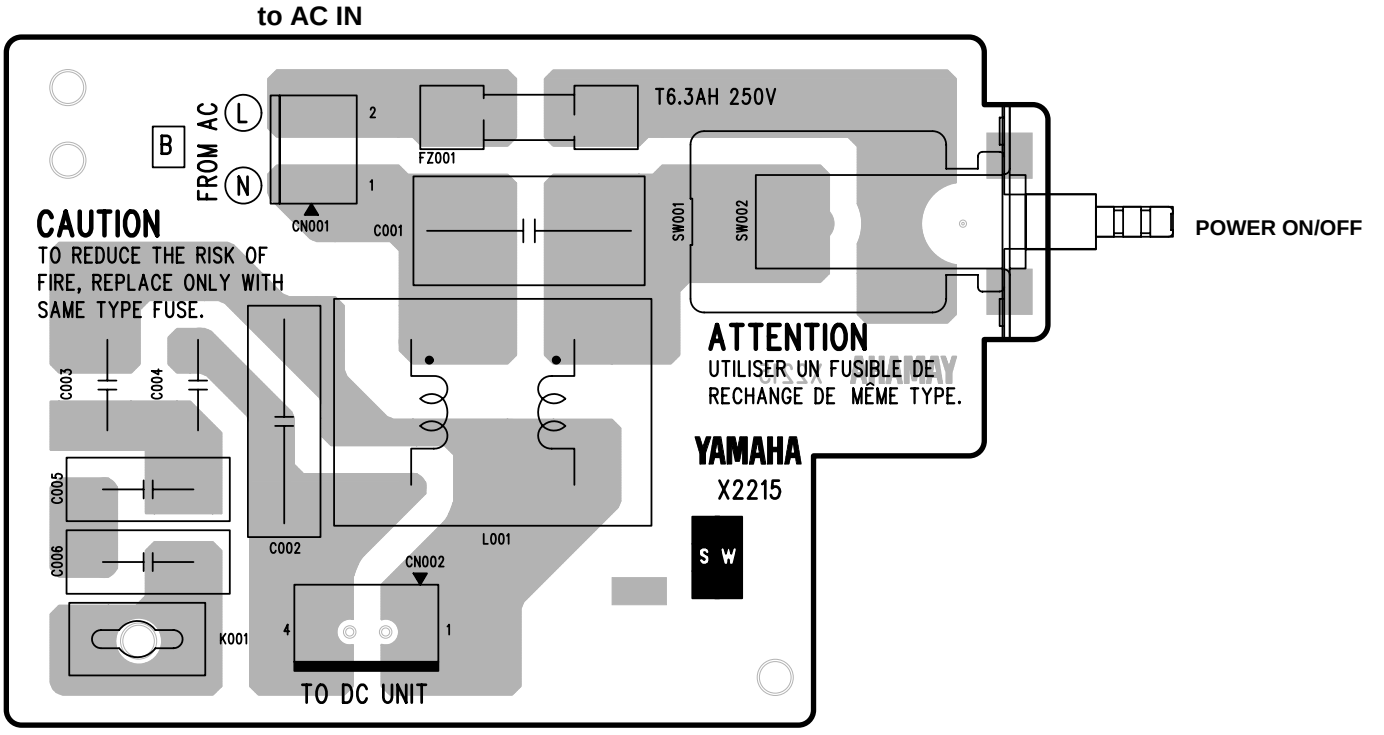


3NA-V628530-2

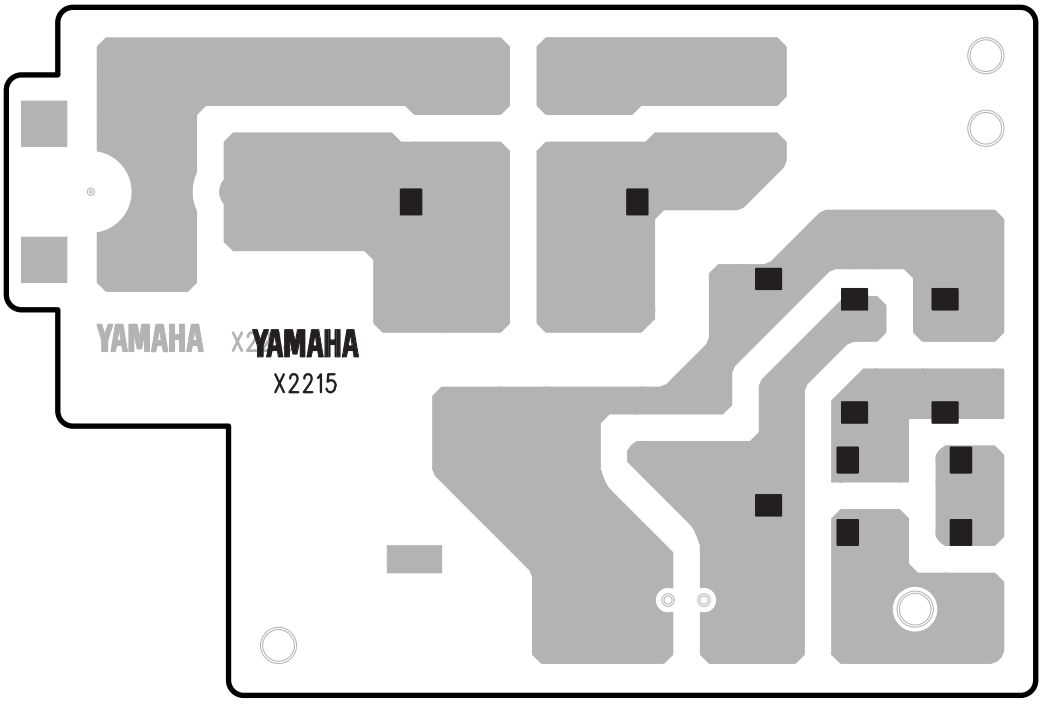


3NA-V628530-2

• SW Circuit Board



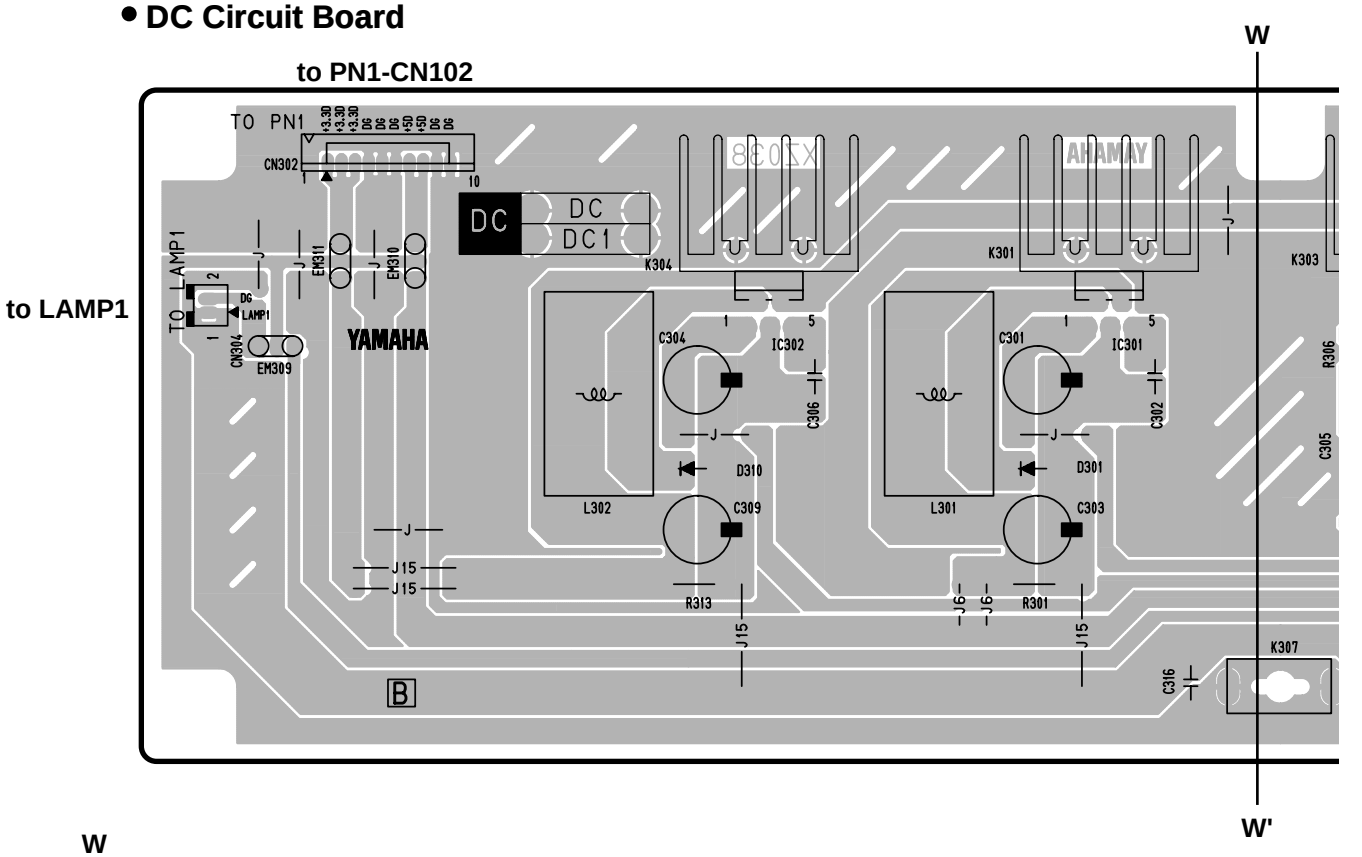
Component side

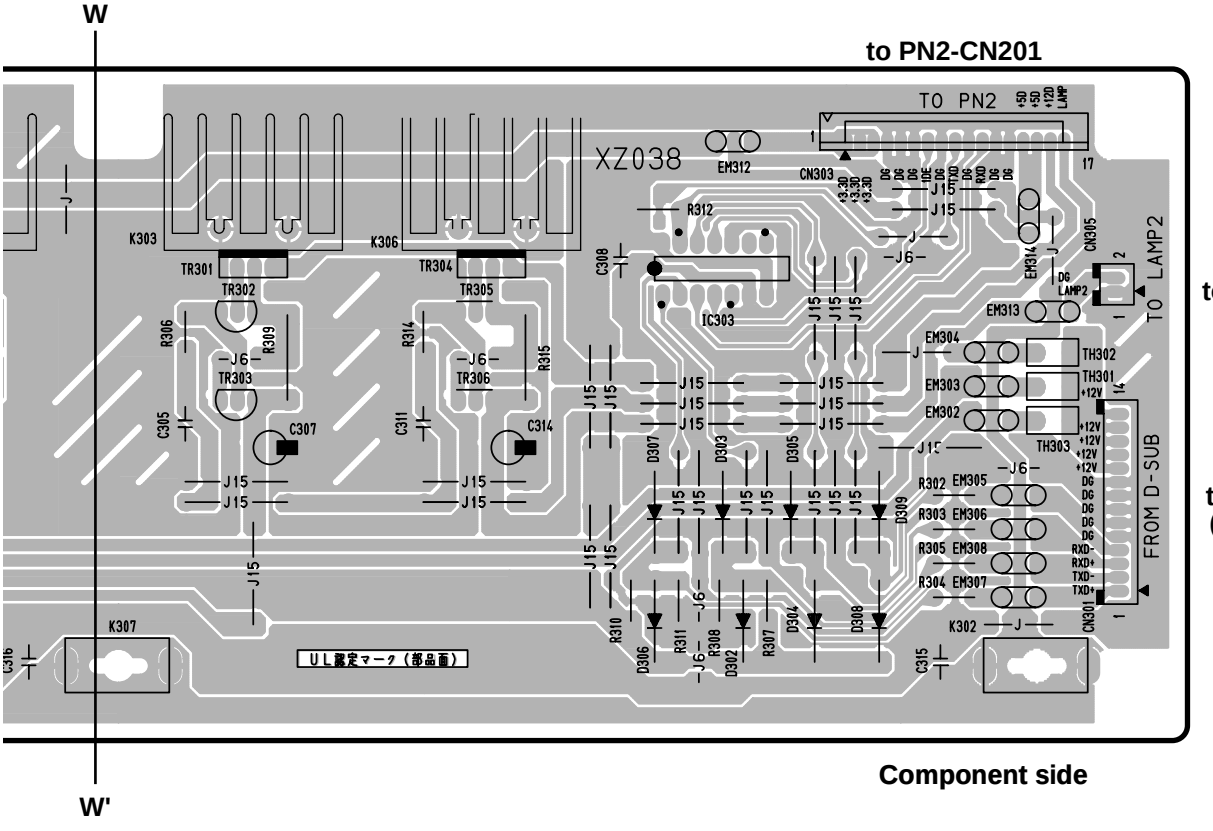


Pattern side

3NA-V654390-2 ⚠4

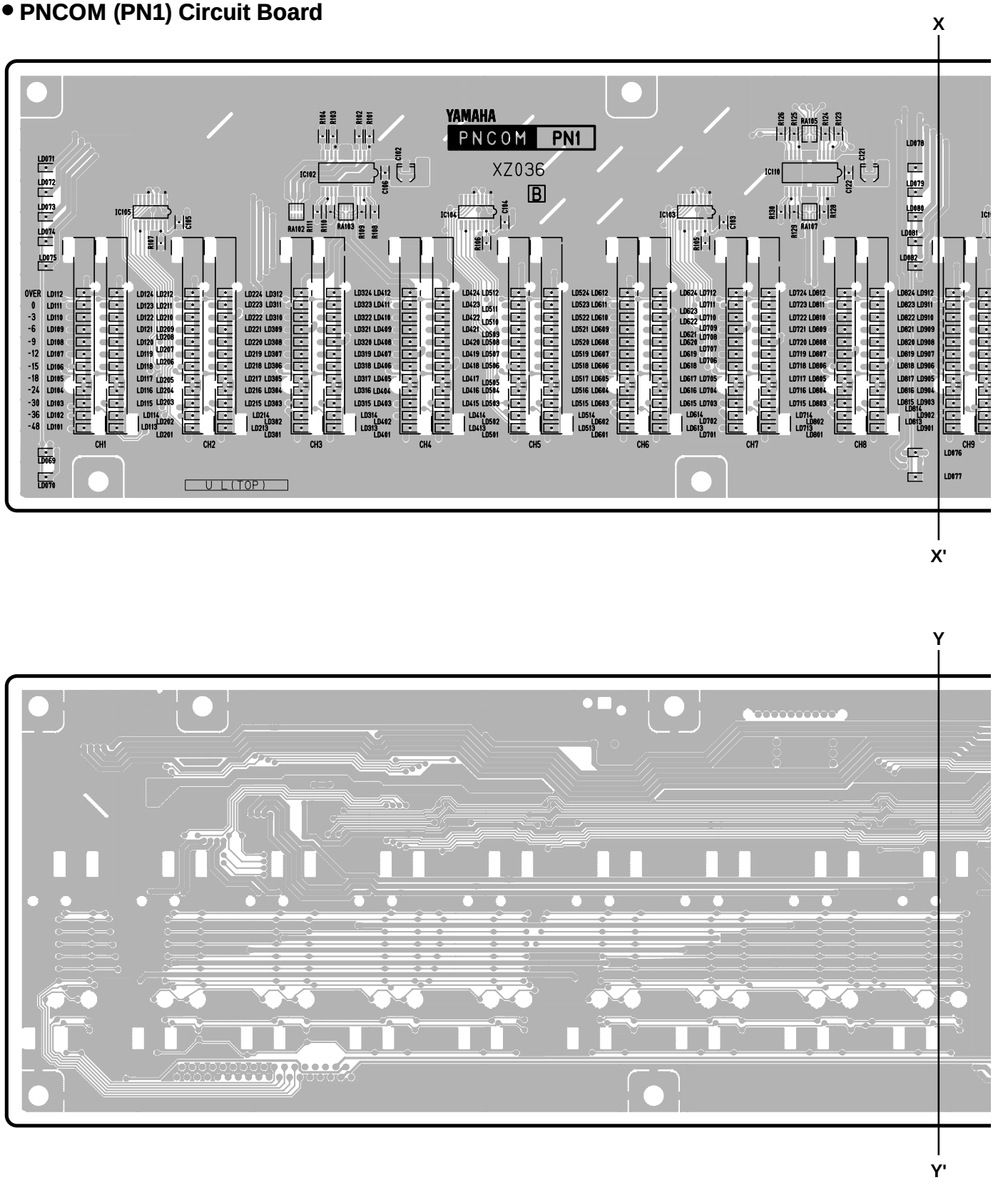
• DC Circuit Board





3NA-V628880-2 ⚠2

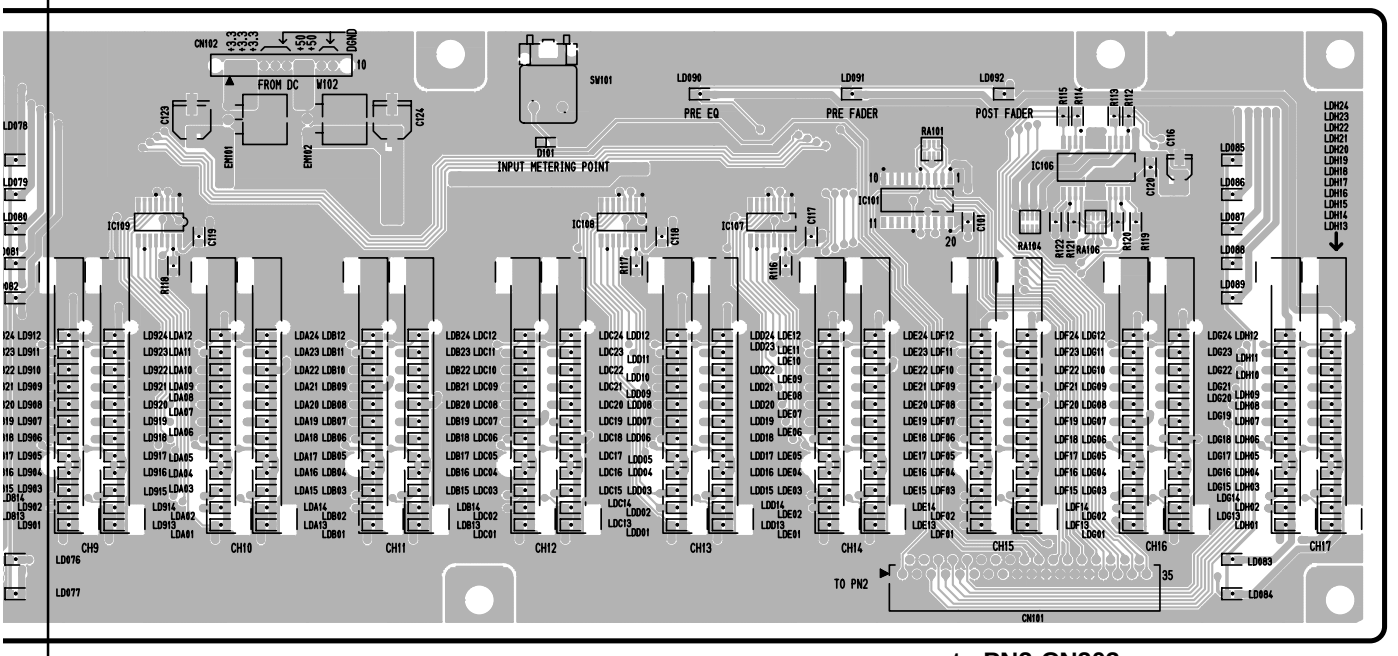
• PNCOM (PN1) Circuit Board



3NA-V773550-2 ⚠2

X

to DC-CN302

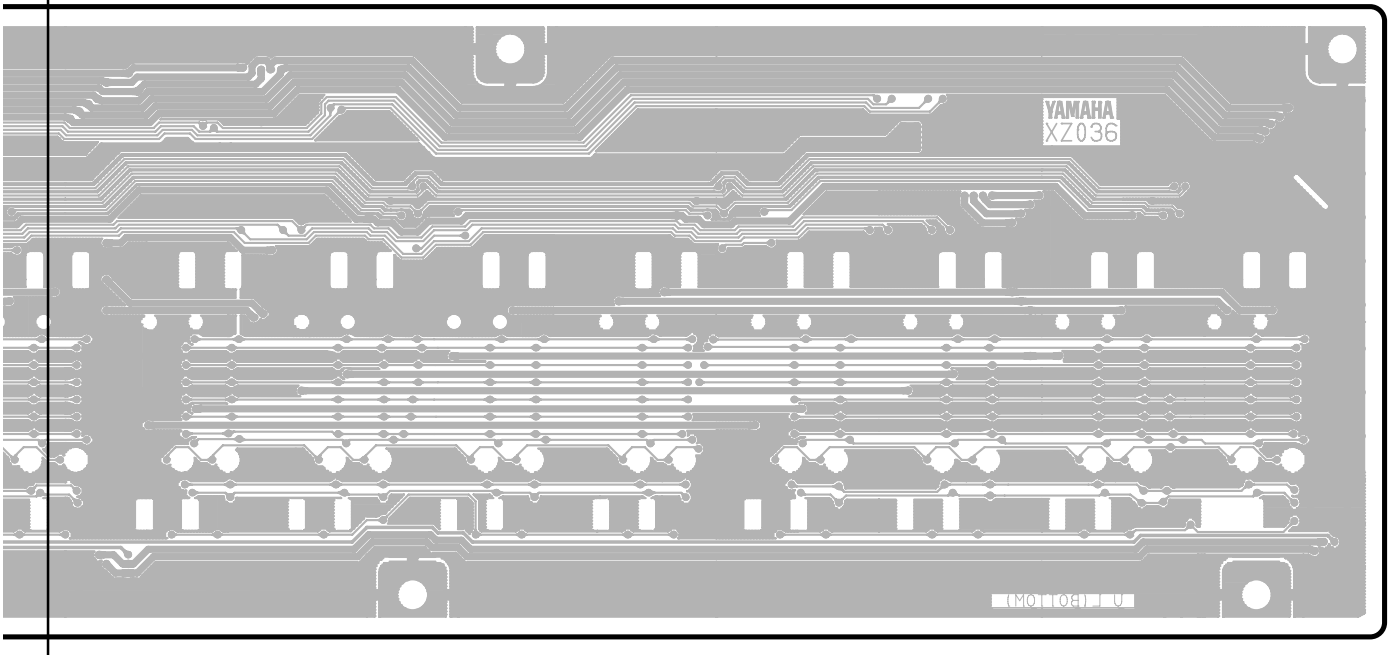


to PN2-CN203

X'

Component side

Y

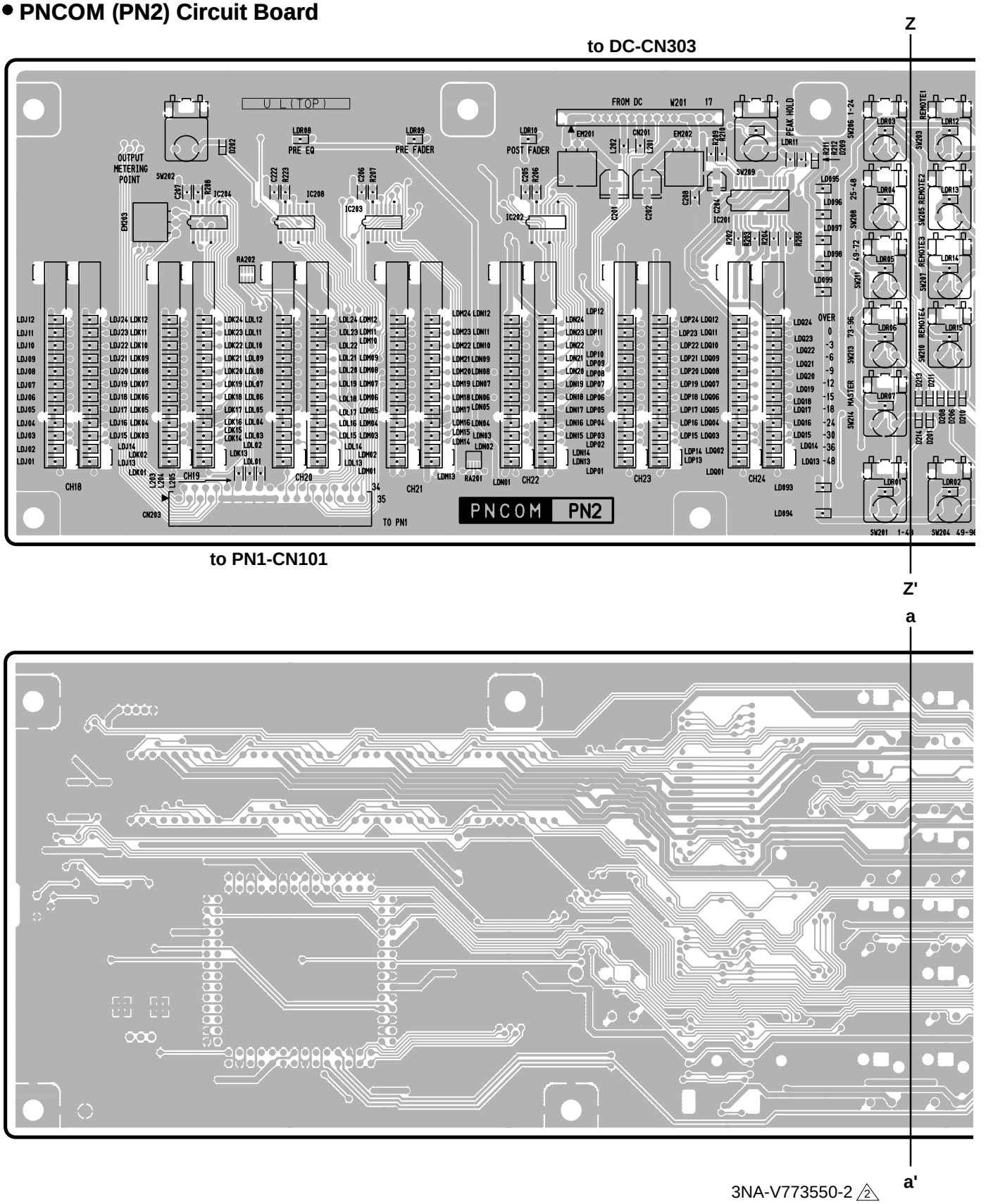


Pattern side

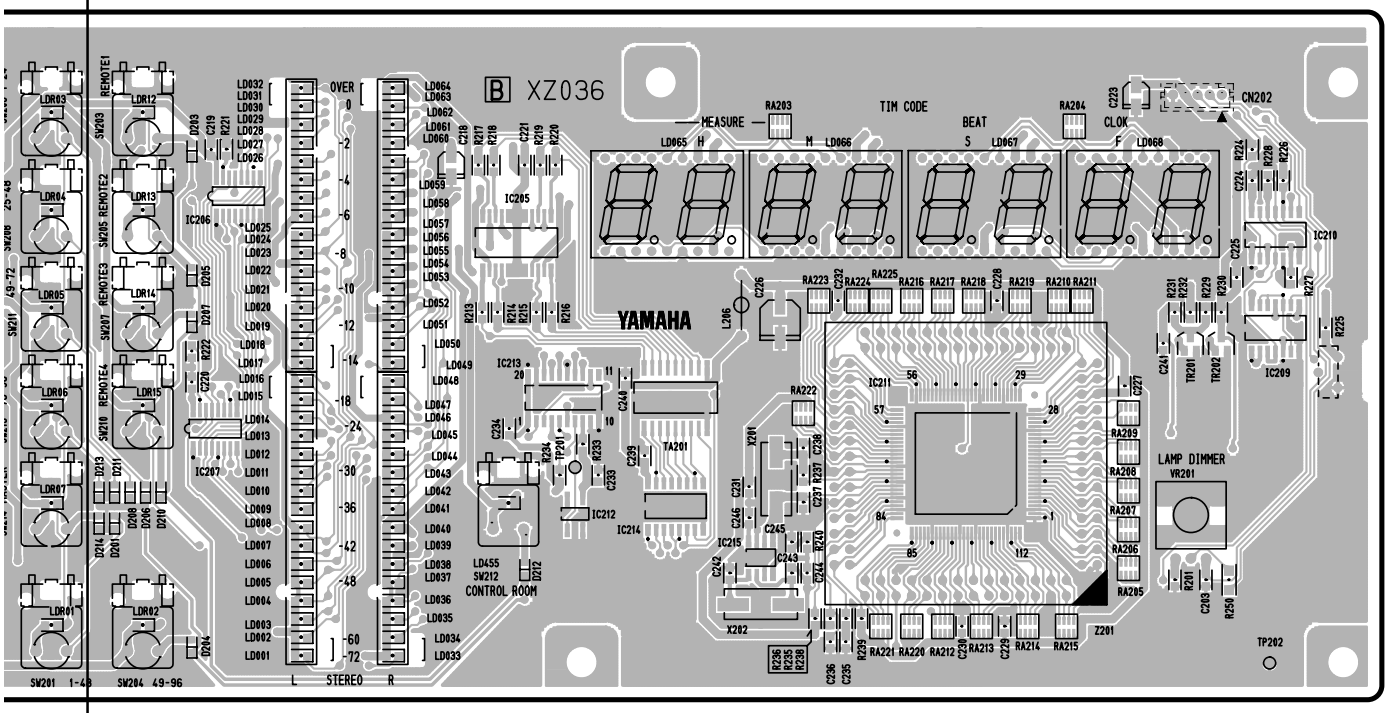
Y'

3NA-V773550-2 ⚠2

• PNCOM (PN2) Circuit Board



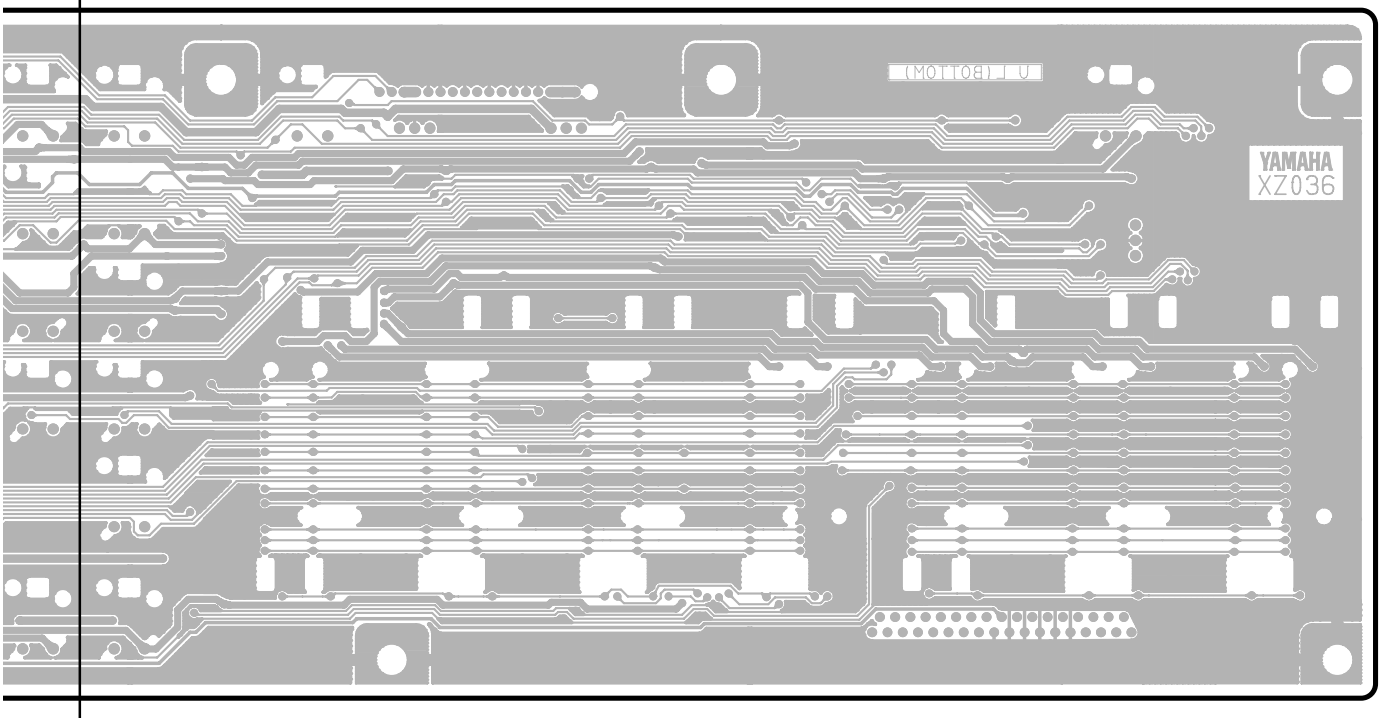
Z



Component side

Z'

a



Pattern side

a'

3NA-V773550-2 ⚠2

INSPECTIONS

✻ Perform the Check of DM2000.

1. Preparation

1-1. Condition

◇ Conditioned as follows unless specified:

- WORD CLOCK to be INT 96kHz.
- Only CH to be checked shall be turned ON.
  PAN: Center
  GAIN: MIN
  PAD: ON
  INSERT: OFF
  FADER: NORMAL (0dB)
- 0dBu = 0.775Vrms
- 0dBV = 1Vrms = 2.2dBu
- 0dBFS = 0 decibel full scale
- Output impedance of oscillator shall be 150Ω.
- Input impedance of oscilloscope, level gauge shall be over 100kΩ.
- Noise measuring shall be at 12.7kHz, and be corrected with LPF of –6dB/OCT.
  (Not average value but effective value should be measured.)
- Distortion measurement should be performed at 80kHz and corrected with LPF of –6dB/OCT.

◇ When checking analogue output, the following conditions shall be added or changed:

- When measuring maximum output, unless specified, output 0dB from the built-in oscillator.
- The load of analogue output shall be as follows:

INSERTOUT:	10kΩ
STEREO OUT (XLR):	600Ω
STEREO OUT (PIN):	10kΩ
CONTROL ROOM MONITOR OUT LARGE:	600Ω
CONTROL ROOM MONITOR OUT SMALL:	600Ω
STUDIO MONITOR OUT:	10kΩ
OMNI OUT:	10kΩ
PHONES:	8Ω

1-2. Initialization

Turn the power supply switch ON while pressing the [STORE] key to start and initialize the system in accordance with the instruction on the screen. Important data should be backed up by MIDI dump or Smart Media. (See page.187)

1-3. Main program writing

If the program version is not latest, program of the latest version must be installed.

① How to check the program version.
Turning ON the power while pressing the [UTILITY] key will display the version number.

② Procedure of version up

a. Prepare Smart Media (3.3V, Capacity: 8MB~128MB) and copy the program to be written into the root directory.

b. Insert the Smart Media into the MEMORY CARD SLOT while power OFF.

c. When powered ON, the count down 5-1 will be displayed on the LCD and the flash memory will be erased and the program writing executed.

d. When the writing completes, the system will be automatically restarted.

✻ For the latest main program, please download from the YSISS home page and store into the Smart Media.

2. Check of ANALOGUE IN/OUT at WORD CLOCK INT 96 kHz

2-1. STEREO OUT L/R (XLR)

Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.

① Gain (L/R common)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Residual noise (L/R common)
Condition: [STEREO OUT] key to be switched OFF.

Permissible range
-92dBu or below

⑤ Level gap between L/R
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R
Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.01% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-2. STEREO OUT L/R (PIN)

Condition: Input from the [INSERT IN] terminal of CH1.
The [INSERT] switch to be set to ON.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-10dBV	-10±2dBV

② Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+4dBV	+4±0.5dBV	0.02% or below

④ Cross talk between L and R
Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+2dBV	-78dBu or below

Confirm that the R side also satisfies the above conditions.

2-3. CONTROL ROOM MONITOR OUT LARGE L/R CONTROL ROOM MONITOR OUT SMALL L/R

Condition: Input from the [INSERT IN] terminal of CH1.
The [INSERT] switch to be set to ON.
Set the [CONTROL ROOM MONITOR LEVEL] control to MAX.
Set the [SMALL TRIM] control to MAX.
Set the [STEREO] key of CONTROL ROOM to ON.
Set the [SMALL] switch to OFF for LARGE measurement and ON for SMALL.

① Gain (L/R common for LARGE/SMALL)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common for LARGE/SMALL)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common for LARGE/SMALL)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common for LARGE/SMALL)
Condition: [STEREO OUT] key to be switched OFF.

CONTROL ROOM MONITOR LEVEL	Permissible range
MAX	-92dBu or below
MIN	-98dBu or below

(L/R common for only SMALL)
Condition: [STEREO OUT] key to be switched OFF.

CONTROL ROOM MONITOR LEVEL	Permissible range
MAX	-92dBu or below
MIN	-100dBu or below

⑤ Level gap between L/R (LARGE/SMALL common)
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R (LARGE/SMALL common)
Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common for LARGE/SMALL)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-4. STUDIO MONITOR OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.
The [INSERT] switch to be set to ON.
The [MONITOR OUT LEVEL] control to be set to MAX.
The [STEREO] key of STUDIO to be turned ON.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: [STEREO OUT] key to be switched OFF.

MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below
MIN	-100dBu or below

⑤ Level gap between L/R
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R
Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-5. OMNI OUT 1~8

Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.
Turn ON BUS1~8 at ROUTING of CH1.
Assign BUS nCH to OMNI nCH with the [OUTPUT PATCH] key.
Turn ON MASTER FADER of BUS 1~8.
The slide switches SW101~801 (8 switches) in DA1 circuit board are to be +18dB.

① Gain (OMNI OUT 1~8)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (OMNI OUT 1~8)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (OMNI OUT 1~8)
Condition: [BUS OUT] key to be switched OFF.

Permissible range
-92dBu or below

⑤ Level gap among the terminals [OMNI OUT 1~8]
Level gap measured in ① and ② to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between odd CH/even CH

Input Frequency	Output Level (odd CH)	Permissible range (even CH)
1kHz	+16dBu	-64dBu or below

Confirm that the even side also satisfies the above conditions.

⑦ Maximum output (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-6. Output Level Gap

Condition: [STERO OUT L/R] terminal
[CONTROL ROOM MONITOR OUT LARGE L/R] terminal
[CONTROL ROOM MONITOR OUT SMALL L/R] terminal
[STUDIO MONITOR OUT L/R] terminal
[OMNI OUT 1~8] terminal (SW101~801(8 switches) in DA1 circuit board are of at +18dB.)
The range of the gain gaps measured at 1kHz for these terminals is specified as follows:

Permissible range
Within 2dB

2-7. PHONES OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.
The [INSERT] switch to be set to ON.
The [PHONES LEVEL] control to be set to MAX.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-12.8dBu	-12.8±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-3~0.5dB
40kHz	+4dBu	-3~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	-10dBu	0.04% or below

④ Residual noise (L/R common)
Condition: The [PHONE LEVEL] control to be set to MIN.

Permissible range
-100dBu or below

⑤ Level gap between L/R
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Maximum output (L/R common)
Condition: To output –6dB from the built-in oscillator.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	-4.8dBu	-4.8±0.5dBu	0.04% or below

⑦ Cross talk between L and R
Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	-10dBu	-75dBu or below

Confirm that the R side also satisfies the above conditions.

2-8. 2TR IN ANALOG 1 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~0.5dB
40kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: [2TR IN ANALOG 1] terminal to be shorted at 150Ω.

Permissible range
-86dBu or below

⑤ Level gap between L/R
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R
Condition: Input the signal into the L side.
The R side to be shorted at 150Ω.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

2-9. 2TR IN ANALOG 2 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-10dBV	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-10dBV	-1.5~0.5dB
40kHz	-10dBV	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: [2TR IN ANALOG 2] terminal to be shorted at 150Ω.

Permissible range
-86dBu or below

⑤ Level gap between L/R
Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R
Condition: Input the signal into the L side.
The R side to be shorted at 150Ω.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

2-10. CH IN 1~24 (XLR, PHONE)

Condition: Check at the [STEREO OUT L] terminal (XLR).
Turn OFF the [INSERT] switch.

A. GAIN MAX, PAD OFF

① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-60dBu	+4dBu	+4±2dBu

② f Characteristic (CH1~24)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-60dBu	-1.5~0.5dB
40kHz	-60dBu	-1.5~0.5dB

③ Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Noise level EIN(CH1~24)
Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-64dBu or below

However, if not be within the above range, confirm that the measured value is (Gain at 1kHz) ≦ -128.

⑤ Level gap (CH1~24)
Level gap measured in ① to be decided as follows:

Permissible range
Within 2dB

B. GAIN MIN, PAD ON
① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±2dBu

② Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

③ Noise level (CH1~24)
Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-86dBu or below

④ INSERT OUT gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±1.5dBu

⑤ INSERT OUT noise level (CH1~24)
Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-90dBu or below

⑥ Checking the action of the Level Meter (CH1~24)
Condition: Input the specified levels into the CH to be measured.
Concurrent inputs into CH 1~24 are possible.
Confirm visually each LED ON/OFF of PEAK, NOMINAL, SIGNAL.

Light ON

LED level	Input frequency	Input level	Reference output level (INSERT OUT)
PEAK	1kHz	+23dBu	+17dBu
SIGNAL	1kHz	-8dBu	-14dBu

Light OFF

LED level	Input frequency	Input level	Reference output level (INSERT OUT)
PEAK	1kHz	+19dBu	+13dBu
SIGNAL	1kHz	-12dBu	-18dBu

C. Phantom (CH1~24)
Voltage with XLR Pin 2 and Pin3 shorted, a load of 10kΩ between Pin 2 and 1, and the Phantom Switch ON is prescribed as follows:

Permissible range
DC 31~37V

Check if a discharge of electricity occurs quickly when the Phantom switch is turned OFF.

2-11. TALKBACK
Condition: Check at the [STEREO OUT L/R] terminal (XLR).
Set the [TALKBACK LEVEL] control to MAX.
Turn ON the [SLATE] key of TALKBACK.
Confirm the signal through the microphone.

3. ANALOGU IN/OUT check at 48kHz WORD CLOCK INT

3-1. STEREO OUT L/R (XLR)
Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Residual noise (L/R common)
Condition: Turn OFF the [STEREO OUT] key.

Permissible range
-92dBU or below

3-2. CONTROL ROOM MONITOR OUT LARGE L/R
Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.
Set the [CONTROL ROOM MONITOR LEVEL] control to MAX.

Turn ON the [STEREO] key of CONTROL ROOM.

① Gain (LARGE L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (LARGE L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (LARGE L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (LARGE L/R common)
Condition: Set the [STEREO OUT] key to OFF.

CONTROL ROOM MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below

3-3. STUDIO MONITOR OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.
Set the [MONITOR OUT LEVEL] control to MAX.
Turn ON the [STEREO] key of STUDIO.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: Set the [STEREO OUT] key to OFF.

MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below

3-4. OMNI OUT 1~8

Condition: Input from the [INSERT IN] terminal of CH1.
Switch ON the [INSERT] switch.
Turn ON BUS1~8 at ROUTING of CH1.
Assign BUS nCH to OMNI nCH with the [OUTPUT PATCH] key.
Turn ON MASTER FADER of BUS 1~8.
The slide switches SW101~801 (8 switches) in DA1 circuit board are to be +18dB.

① Gain (OMNI OUT 1~8)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (OMNI OUT 1~8)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (OMNI OUT 1~8)
Condition: [BUS OUT] key to be switched OFF.

Permissible range
-92dBU or below

3-5. PHONES OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.
Set the [PHONES LEVEL] control to MAX.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-12.8dBu	-12.8±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-3~0.5dB
20kHz	+4dBu	-3~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	-10dBu	0.04% or below

④ Residual noise (L/R common)
Condition: Set the [PHONES LEVEL] control to MIN.

Permissible range
-100dBu or below

3-6. 2TR IN ANALOG 1 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~0.5dB
20kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: [2TR IN ANALOG 1] terminal to be shorted at 150Ω.

Permissible range
-88dBu or below

3-7. 2TR IN ANALOG 2 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-10dBV	+4dBu	+4±2dBu

② f Characteristic (L/R common)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-10dBV	-1.5~0.5dB
20kHz	-10dBV	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)
Condition: [2TR IN ANALOG 2] terminal to be shorted at 150Ω.

Permissible range
-88dBu or below

3-8. CH IN 1~24 (XLR, PHONE)

Condition: Check at the [STEREO OUT L] terminal (XLR).
Turn OFF the [INSERT] switch.
Set the [GAIN] control to MIN and the [PAD] switch to ON.

① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±2dBu

② f Characteristic (CH1~24)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+10dBu	-1.5~0.5dB
20kHz	+10dBu	-1.5~0.5dB

③ Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Noise level (CH1~24)
Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-88dBu or below

4. Checking DIGITAL IN/OUT

4-1. 2TR DIGITAL OUT 1,2,3

Condition: Use System Two.
Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.

A. WORD CLOCK INT 48kHz.
Condition: Set WORD CLOCK INT to 48kHz.
Turn OFF SRC of the [2TR DIGITAL OUT] terminal.

① Gain (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-14dBFS	-14±2dBFS

② f Characteristic (2TR DIGITAL OUT 1)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.0~0.5dB
20kHz	+4dBu	-1.0~0.5dB

③ Distortion factor (2TR DIGITAL OUT 1)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.02% or below

B. WORD CLOCK INT 96kHz.
Condition: Set WORD CLOCK INT to 96kHz.
Turn OFF SRC of the [2TR DIGITAL OUT] terminal.

① Gain (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-14dBFS	-14±2dBFS

② f Characteristic (2TR DIGITAL OUT 1)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.0~0.5dB
40kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (2TR DIGITAL OUT 1)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.02% or below

C. SRC action
Condition: Set WORD CLOCK INT to 96kHz.
Turn ON SRC of CH to be measured.

① FS (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-2dBFS	44.1kHz	44.1kHz±100Hz

② Distortion factor (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.005% or below

4-2. 2TR DIGITAL IN 1,2,3

Condition: Use System Two.
Check at the [STEREO OUT L/R] terminal (XLR).
Select as follows for WORD CLOCK.
When checking the [2TR DIGITAL IN 1] terminal: 2TR D1
When checking the [2TR DIGITAL IN 2] terminal: 2TR D2
When checking the [2TR DIGITAL IN 3] terminal: 2TR D3

A. 48kHz.
Condition: Set the frequency setting (Sample Rate) of System Two to 48kHz.
Turn OFF SRC of the [2TR DIGITAL IN] terminal.

① Gain (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	+4dBu	+4±2dBu

② f Characteristic (2TR DIGITAL IN 1)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-14dBFS	-1.0~0.5dB
20kHz	-14dBFS	-1.0~0.5dB

③ Distortion factor (2TR DIGITAL IN 1)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

B. 96kHz.
Condition: Set the frequency setting (Sample Rate) of System Two to 96kHz.
Turn OFF SRC of the [2TR DIGITAL IN] terminal.

① Gain (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	+4dBu	+4±2dBu

② f Characteristic (2TR DIGITAL IN 1)
Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-14dBFS	-1.0~0.5dB
40kHz	-14dBFS	-1.5~0.5dB

③ Distortion factor (2TR DIGITAL IN 1)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

C. SRC action
Condition: Set WORD CLOCK INT to 96kHz.
Check at the [2TR DIGITAL OUT1] terminal.
Set the frequency setting of System Two (Sample Rate) to 44.1kHz.
Turn ON SRC of CH to be measured.

① FS (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	96kHz	96kHz±100Hz

② Distortion factor (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	-14dBFS	0.005% or below

4-3. PLL action range of WORD CLOCK IN and 2TR DIGITAL IN 1,2,3

Condition: Use System Two.
Check at the [STEREO OUT L/R] terminal (XLR).
Select as follows for WORD CLOCK.
When checking the [WORD CLOCK IN] terminal: WC IN
When checking the [2TR DIGITAL IN 1] terminal: 2TR D1
When checking the [2TR DIGITAL IN 2] terminal: 2TR D2
When checking the [2TR DIGITAL IN 3] terminal: 2TR D3
Input from the [INSERT IN] terminal of CH1.
Turn ON the [INSERT] switch.

A. 96kHz + 6% (101.76kHz)
Condition: When checking the [WORD CLOCK IN] terminal, set the frequency setting of the oscillator to 96kHz + 6%. When checking the [2TR DIGITAL IN 1,2,3] terminal, set the setting of System Two (Sample Rage) to 96kHz + 6%.

① Distortion factor (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

B. 44.1kHz - 10% (39.69kHz)
Condition: When checking the [WORD CLOCK IN] terminal, set the frequency setting of the oscillator to 44.1kHz - 10%. When checking the [2TR DIGITAL IN 1,2,3] terminal, set the setting of System Two (Sample Rage) to 44.1kHz - 10%.

① Distortion factor (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

5. Measuring jitter

Condition: Use System Two.
Select Sec, PK
BW: Select 700Hz~100kHz.
Check at the [2TR DIGITAL OUT1] terminal.

5-1. WORD CLOCK INT

Condition: For WORD CLOCK, select as follows:

① Jitter

WORD CLOCK	Permissible range
INT 44.1kHz	5nsec. or below
INT 48kHz	5nsec. or below
INT 88.2kHz	5nsec. or below
INT 96kHz	5nsec. or below

5-2. WORD CLOCK EXT

Condition: Select as follows for WORD CLOCK.
When checking the [WORD CLOCK IN] terminal: WC IN
When checking the [2TR DIGITAL IN 1] terminal: 2TR D1
When checking the [2TR DIGITAL IN 2] terminal: 2TR D2
When checking the [2TR DIGITAL IN 3] terminal: 2TR D3
When checking the [WORD CLOCK IN] terminal, select the values in the following table for the frequency setting of the oscillator.
When checking the [2TR DIGITAL IN 1,2,3] terminals, select the values in the following table for the frequency setting of the System Two (Sample Rate).

① Jitter (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

WORD CLOCK	Permissible range
44.1kHz	10nsec. or below
48kHz	10nsec. or below
88.2kHz	10nsec. or below
96kHz	10nsec. or below

6. Sound check

Check the following items with the sense of hearing.
• EFT 1~8
Check at No.13 and 19 of EFFECT LIBRARY.
• ANALOG INPUT, ANALOG OUTPUT
Check at the [STEREO OUT L/R] terminal (XLR) of CH1, CH12, CH24.
• 2TR DIGITAL IN 1,2,3
Condition: Set WORD CLOCK INT to 96kHz.
Check at the [STEREO OUT L/R] terminal (XLR).
Set the frequency setting of System Two (Sample Rate) to 44.1kHz.
Turn ON SRC of CH to be measured.

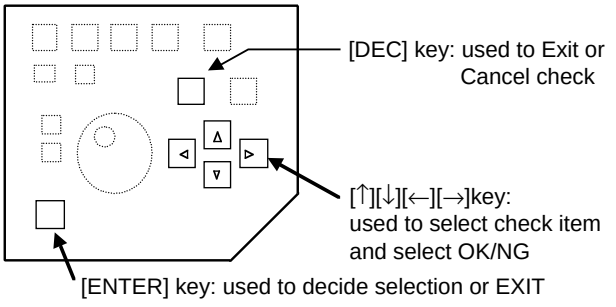
SERVICE CHECK PROGRAM

✻ Execute the service check programs for DM2000 and MB2000.

0. Outline

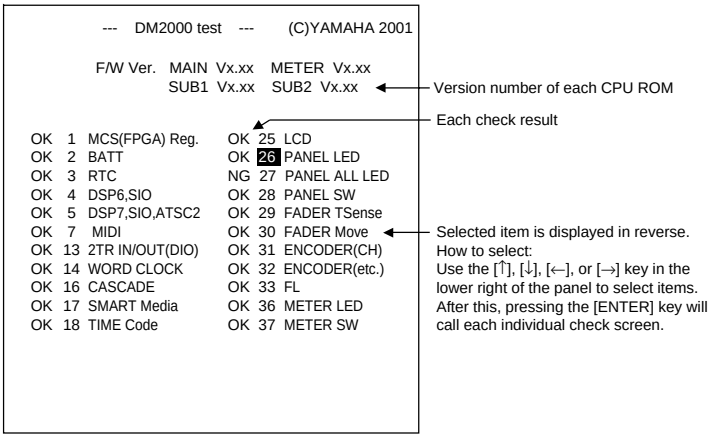
0-1 How to operate

Keys used for the service check on the panel



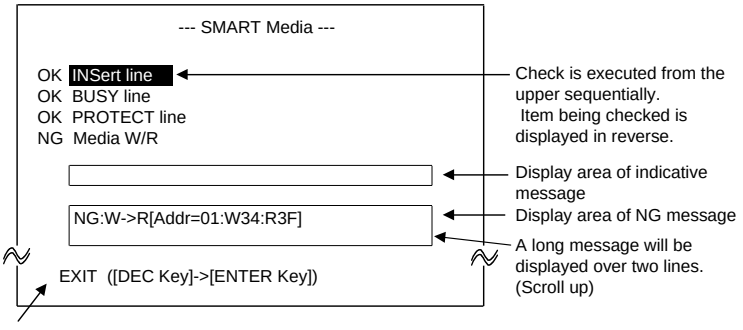
0-2. Explanation of screen

(Fig.1)
Example of screen for the entire check items



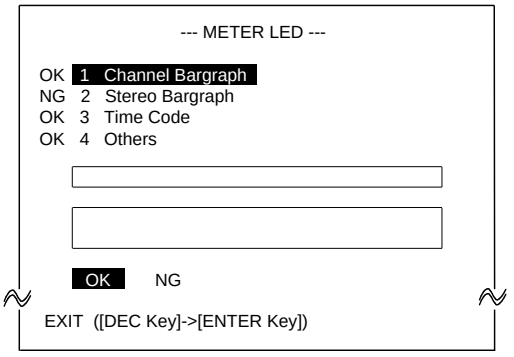
✻ 36 and 37 are the test programs of MB2000.

(Fig.2)
Example A of individual check screen
(when forwarding check items by automatic judge)



1) Check is carried out automatically and turns to the [EXIT] mode when all items are completed. Pressing the [ENTER] key will display the screen of Fig.1.
2) If redo the check, return to Fig.1 to select items.

(Fig.3)
Example B of individual check screen (when checking each one of multiple items automatically (semi-automatically) or visually)



1) When starting the check, OK/NG selection items will be displayed. Judging by actions and results, select OK/NG. Use the [←] or [→] key for the selection and decide by using the [ENTER] key.
2) Choice of OK or NG displays the next check item automatically.
3) Pressing the [DBC] key while the entry of OK/NG decision is being waited will reverse the appearance of [EXIT] and this screen is terminated when the [ENTER] key is pressed. (Some check items can be processed the [EXIT] by pressing the [DEC] key even during the execution.)
If executed the [EXIT] before all the check items are completed, the judges of Fig.1 will be displayed as NG.
4) Check items with numbers at the head as such Fig.3 are selectable. Select an item using the [↑] or [↓] key and press the [ENTER] key to start a check. For the ones without numbers at the head the check will be automatically initiated.

0-3 List of check items

Item	Check name	Outline of check item	Judge
1-1	MCS(FPGA)	Check the FPGA register by Read/Write.	Auto
1-2	BATT	Check the voltage of the backup battery.	Auto
1-3	RTC	Initiate, set, or display the Real Time Clock.	Semi-Auto
1-4	DSP6,SIO	Check the SIO connection by Reading/Writing the register of each DSP6.	Auto
1-5	DSP7,SIO,ATSC2	Check the SIO and ATSC2 connection by Reading/Writing the register of each DSP7.	Auto
1-6			
1-7	MIDI	MIDI OUT-->Check the Send/Receive of IN.	Auto
1-8			
1-9			
1-10			
1-11			
1-12			
1-13	2TR IN/OUT(DIO)	Check by Loop Backing the 2TR IN/OUT DIGITAL.	Auto
1-14	WORD CLOCK	Count the Fs of WCLK OUT at WCLK IN to judge the LOCK of PLL.	Semi-Auto
1-15			
1-16	CASCADE	Check the Send/Receive of CASCADE OUT > IN.	Auto
1-17	SMART Media	Check the control panel, Check the Smart Media by Read/Write.	Semi-Auto
1-18	TIME Code	Check the MTC MIDI input.	Auto
1-19			
1-25	LCD	Display the entire screen in black and white to check contrast volume.	Visual check
1-26	PANEL LED	LEDs (including 7 Seg LEDs) will light sequentially as specified.	Visual check
1-27	PANEL ALL LED	Check all LEDs for gradual brightness and for each color.	Visual check
1-28	PANEL SW	Press the SW sequentially as specified for check.	Semi-Auto
1-29	FADER TSense	Check the touch sense sensitivity of the FADER.	Semi-Auto
1-30	FADER Move	Check the moving time and stop position of the FADER.	Semi-Auto
1-31	ENCODER(CH)	Rotate the Encoder (CH1-24) for check.	Semi-Auto
1-32	ENCODER(etc.)	Rotate the Encoder (etc.) for check.	Semi-Auto
1-33	FL	Turn ON/OFF all symbols of FL and display characters.	Visual check
1-36	METER LED	MB2000 LEDs (including 7 Seg LEDs) will light sequentially as specified.	Visual check
1-37	METER SW	Pressing the SW of MB2000 will turn ON/OFF corresponding LED.	Visual check

Checked items and item numbers correspond to those of the test program.

1. Service Check

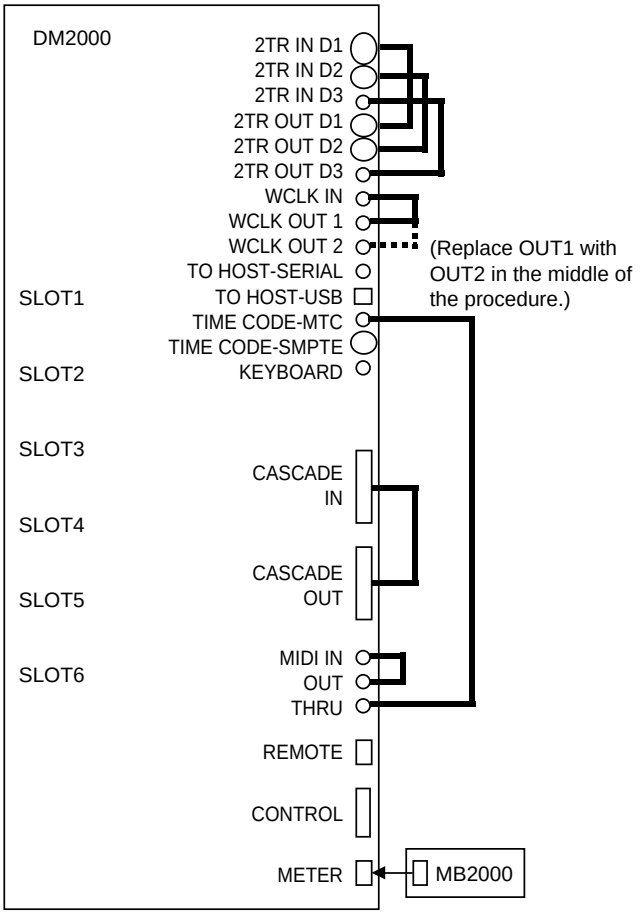
Common contents

1) The contents and example screens of execution for each check item are displayed.

Common preparation

1) Objectives to be checked: DM2000 + MB2000
2) Cable: MIDI cable: 2
   CANNON cable: 2
   COAXIAL cable: 1
   BNC cable: 1
   D-SUB 68pin (CASCADE) cable: 1
3) Others: SMART Media: 2 (3.3 V, one is attached to the PROTECT seal)
4) How to start DM2000: During normal operation, pressing the [SEL] key in the order CH [6 7 1 1] and pressing the [ENTER] key will display the dialogue box for approval. After this, selecting YES and pressing the [ENTER] key will restart the DM2000 in the Service Check mode.

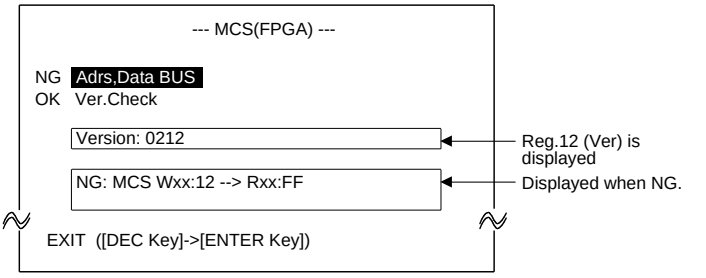
Connection diagram of Service Check



1-1 MCS(FPGA) Test

Contents: Read/Write the Reg. (00, 0f, 10, 11, 15, 16) of FPGA to compare and judge and then readout the Reg.12 (Ver) and display it.

Example of execution screen

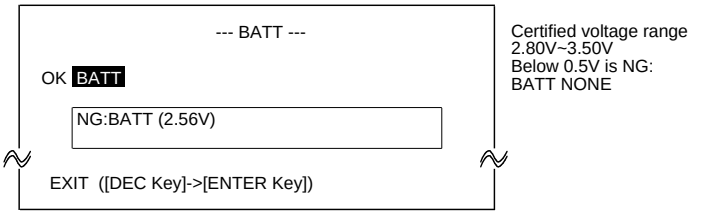


For the Ver.Check test, select OK when “Version: 0212” is displayed.

1-2 BATT Test

Contents: Measure the voltage of the backup battery in A/D for automatic judge.

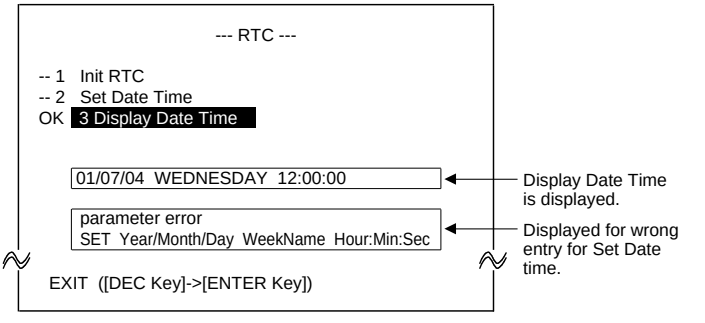
Example of execution screen



1-3 RTC Test

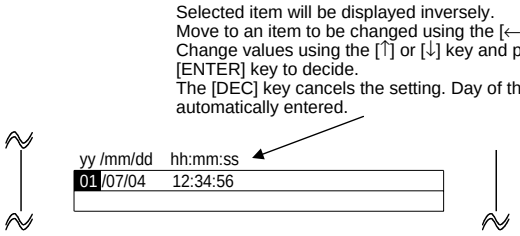
Contents: Initiate, set, and display the Real Time Clock.

Example of execution screen



Confirm the current date and time displayed are correct by executing “3 Display Date Time.”
If not correct, enter correct date and time at “2 Set Date Time” and confirm again the date and time at “3 Display Date Time.”
In case of abnormal Real Time Clock movement or when the backup battery of the CPU circuit board, initialize Real Time Clock at “1 Init RTC” and perform the above setting.

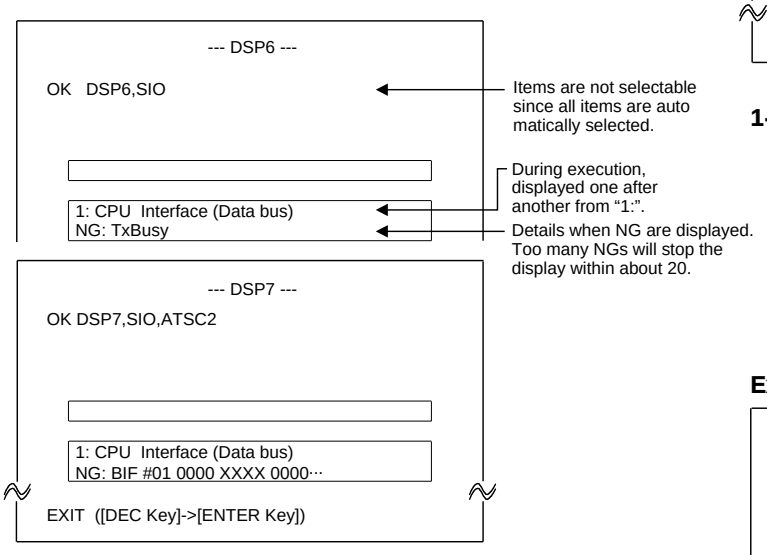
1) When selecting “2 Set Date Time”



1-4 DSP6, S10 Test
1-5 DSP7, S10, ATSC2 test

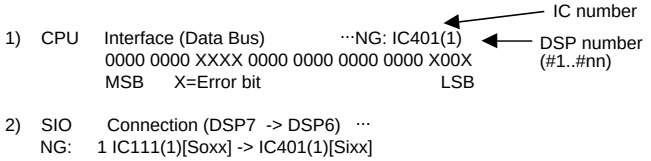
Contents: Check DataBUS and AddressBUS for good or bad by Writing/Reading the Register of each DSP6 and DSP7.
Compare and check by Writing/Reading DRAM and SDRAM of each DSP6 and DSP7 through the Register.
Check the SIO connection between each DSP, and between ATSC by sending/receiving signal.

Example of execution screen



Test item for DSP6	Test item for DSP7
1: CPU Interface (Data bus)	1: CPU Interface (Data Bus)
2: CPU Interface (Data bus)	2: CPU Interface (Chip Select)
3: CPU Interface (Chip Select, TXB)	3: CPU Interface (Address Bus)
4: CPU Interface (Address bus)	4: E-RAM Interface (Data Bus)
5: CPU Interface (BUS W/R Reg.)	5: E-RAM Interface (Address Bus)
6: DRAM Interface (Data Bus)	6: SIO Connection (DSP7 -> DSP6)
7: DRAM Interface (Address Bus)	7: SIO Connection (DSP6 -> DSP7)
8: DRAM Interface (Address Bus & MPR)	8: SIO Connection (DSP7 -> DSP7)
9: SIO Connection (DSP6--->DSP6 SIO test)	9: SIO Connection (ATSC -> DSP7)
A: PIO Connection (DSP6--->DSP6 SIO test)	A: SIO Connection (DSP7 -> ATSC)

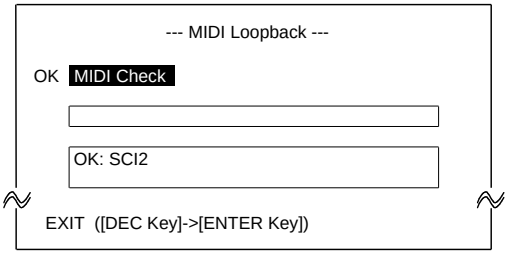
Explanation about expression when DSP6 and DSP7 are common, or when NG:



1-7 MIDI Test

Contents: Sending/Receiving the string “SCI2:TEST¥n”(¥n=0Ah) at 31.25Kbps from/into MIDI OUT→MIDI IN, verify if identical.
Preparation: Connect MIDI OUT and MIDI IN connector of the unit.

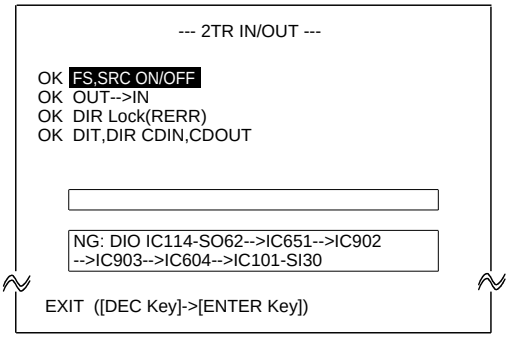
Example of execution screen



1-13 2TR IN/OUT (DIO) Test

Contents: Connect 2TR OUT DIGITAL 1,2,3 to 2TR IN DIGITAL 1,2,3 and verify by using DSP SIO. Check the SRC function of 2TR OUT DIGITAL 1,2,3 by using 2TR IN DIGITAL 1,2,3.
Preparation: Connect each MIDI OUT DIGITAL 1,2,3 and each MIDI IN DIGITAL 1,2,3 connector of the unit respectively.

Example of execution screen

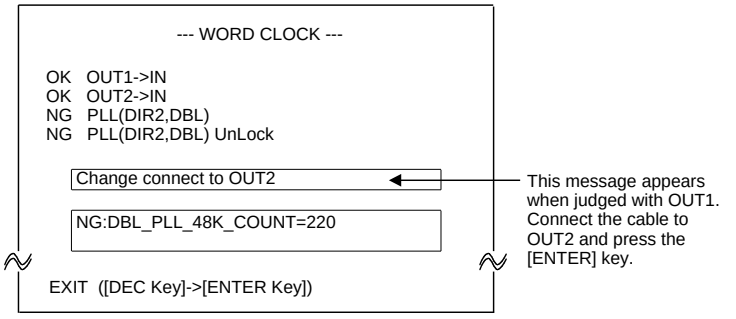


1-14 WORD CLOCK Test

Contents: Count FPGA over WORD CLOCK OUT→IN for automatic judge (Fs=44.1/48/88.2/96kHz). For the LOCK check of PLL, read the UNLOCK signal for judge after the clock becomes stable (after about 100ms).The UnLock check of PLL inspect after disconnecting the cable connected to WORD CLOCK IN.
UnLock confirmation is automatically checked when the cable is replaced.

Preparation: Connect WORD CLOCK OUT1→IN with the BNC cable. In the midway, connect to WORD CLOCK OUT2.

Example of execution screen

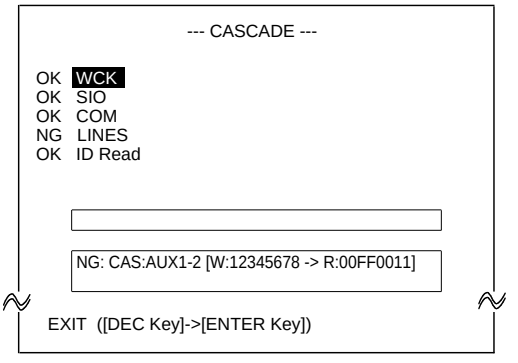


1-16 CASCADE Test

Contents: Send each signal from CASCADE OUT to CASCADE IN for automatic judge.

Preparation: Connect CASCADE OUT to CASCADE IN of the unit.

Example of execution screen

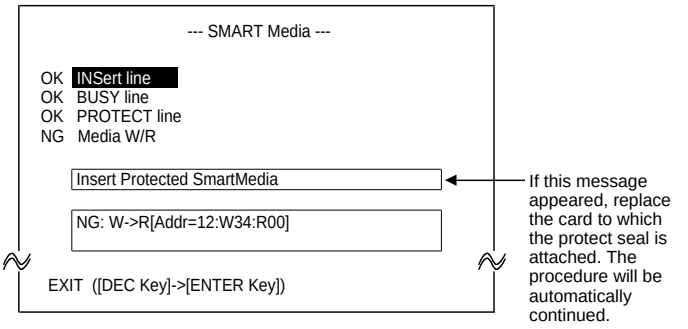


1-17 SMART Media Test

Contents: Check three control signal lines of SMART Media.
Read/Write the data of 00, 01, ⋯ff, 01, 02⋯00(512Bytes) from/into sector 0 of the media for comparison.

Preparation: Prepare two 3.3V-Smart media cards. One is for attaching PROTECT seal. Don't insert the smart media when starting the check.

Example of execution screen

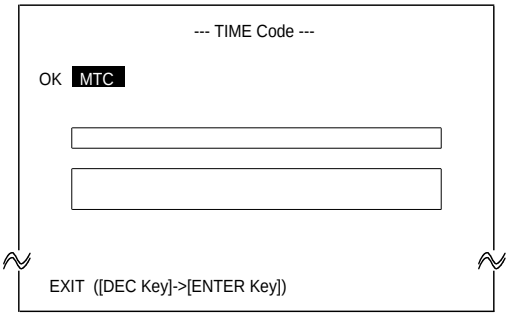


1-18 TIME Code Test

Contents: Receiving the MIDI OUT signal from the unit and compare with the Send/Receive signal "Test MTC¥n" for judge. (Only MTC can be checked. SMPTER check is unavailable.)

Preparation: Connect MIDI THRU of the unit to MTC.

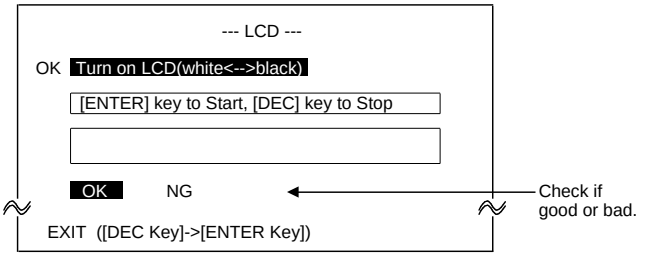
Example of execution screen



1-25 LCD Test

Contents: Display the entire LCD screen in black and white alternatively for visual check.

Example of execution screen



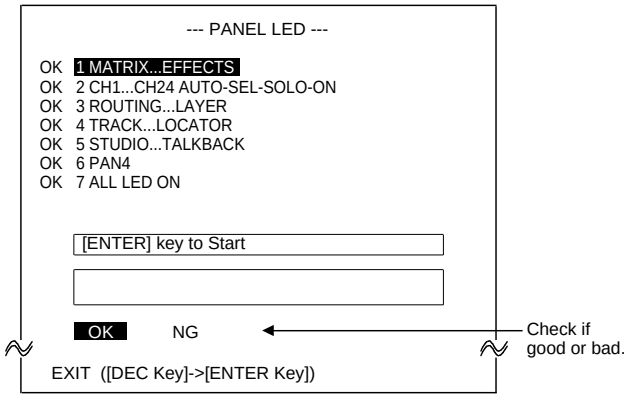
Check if the entire screen is displayed in black and white respectively.
Check for no dot less.
Check if the contrast of the screen changes when the contrast volume is changed.

If the above is confirmed, then press the [DEC] key and select OK/NG.

1-26 PANEL LED Test

Contents: Check visually if each LED on the panel and 7-SegLEDs lights in a specified order.

Example of execution screen

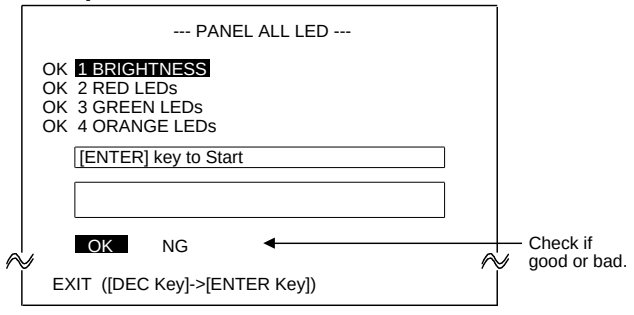


For the lighting order, see 2. Supplement “LED lighting order Fig. 1,2.” For 7-SegLEDs, they light in the order 1..9,0-dot.

1-27 PANEL LED Test

Contents: Check if all the LEDs on the panel light properly in the four grades (for two-color LED is in red).
Confirm that only red LEDs light (including two-color LED).
Confirm that only green LEDs light (including two-color LED).
Confirm that only orange LEDs light.

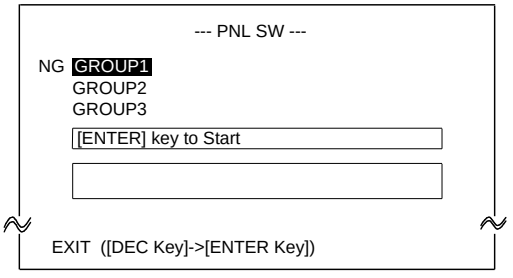
Example of execution screen



1-28 PANEL SW Test

Contents: Check if each switch on the panel corresponds correctly as specified when pressed. (Auto-judge)

Example of execution screen

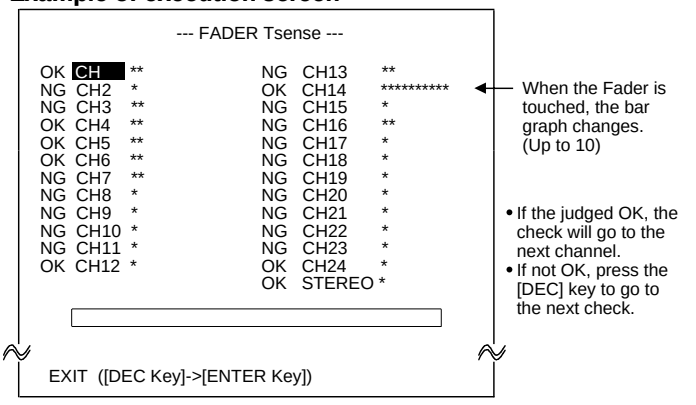


1) For the operation sequence, see 2. Supplement “SW operation Fig1, 2.”
2) LCD display will change to that of 2. Supplement “LCD display Fig.1” and if the [DEC] key is pressed, it goes ahead forcibly to the next screen and thus the [DEC] key check is not required.

1-29 FADER TSense Test

Contents: Touch sense is automatically checked by the variation of input when the Fader is touched by hand.

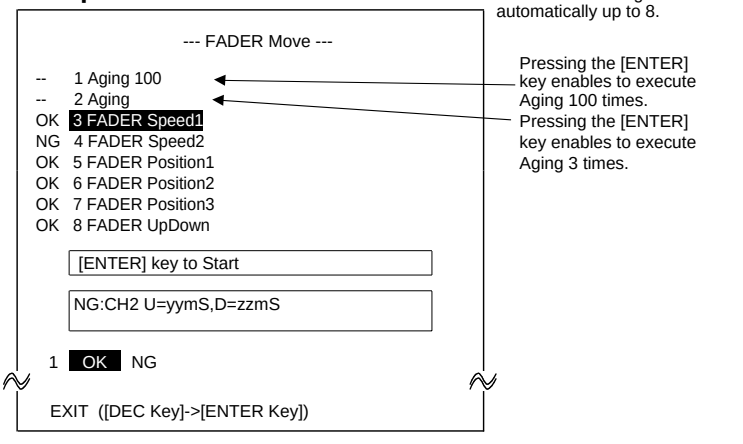
Example of execution screen



1-30 FADER Move Test

Contents: 1) Move up/down all the Faders. (Aging)
2) Move a Fader one by one and measure the time for auto-judge (two kinds).
3) Check if the stop position of Fader position 1 is within ±2mm of specified position.
Check if the stop position of Fader position 2,3 does not exceed too much from specified position. (For the specified positions, see the table below.)
4) Move the all Faders up/down to visually check for excessively slow Fader.

Example of execution screen



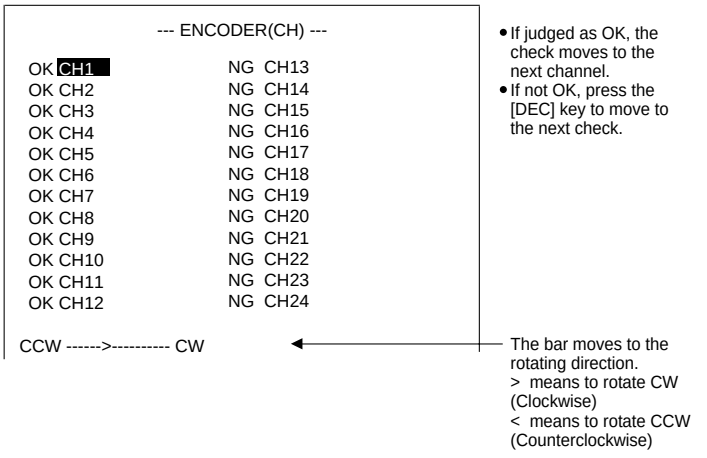
1) Specified position of FADER Position

	CH1-24	STEREO
FADER Position 1	0dB at the index of the Fade's left	-10dB
FADER Position 2	-10dB at the index of the Fade's left	-20dB
FADER Position 3	-30dB at the index of the Fade's left	-50dB

1-31 ENCODER (CH) Test

Contents: Check the rotation response of Encoder of CH1 through CH24.
Rotating the Encoder in clockwise moves the mark ">" located on the left end to the right direction. When the mark ">" reaches the right end, it turns into the mark "<." After this, rotating the Encoder counterclockwise moves the mark "<" to the left direction. If the mark "<" reaches the left end, it will be OK.

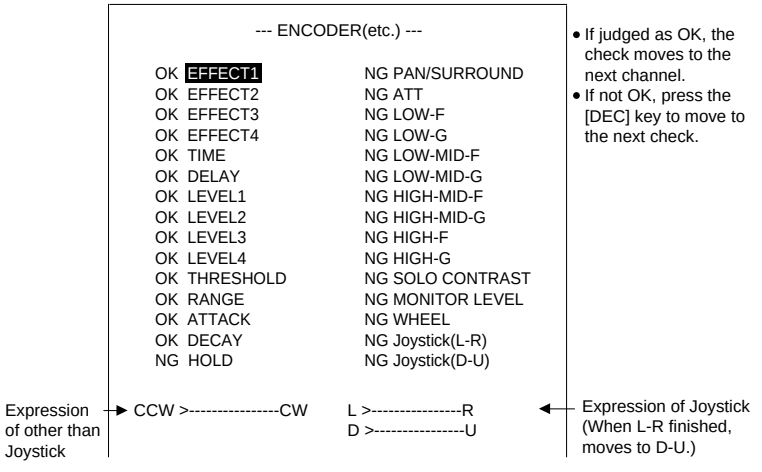
Example of execution screen



1-32 ENCODER (etc.) Test

Contents: From CH1, check the rotation response of Encoder of other than CH24.
The way of operation is the same as 1-31.

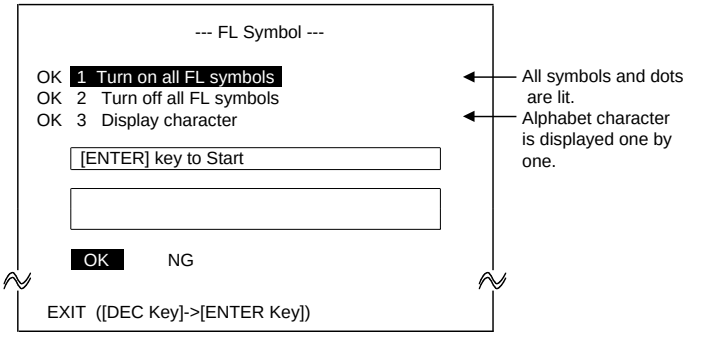
Example of execution screen



1-33 FL Test

Contents: All the symbols and the dots of FL module will be lit. Confirm that no lack of dot in display and no irregular brightness in display are found. And then, all the symbols and the dots will be turned off. Confirm that all of them disappeared.
Confirm that "A, B, C, D" is displayed normally in the character display area on the FL module.

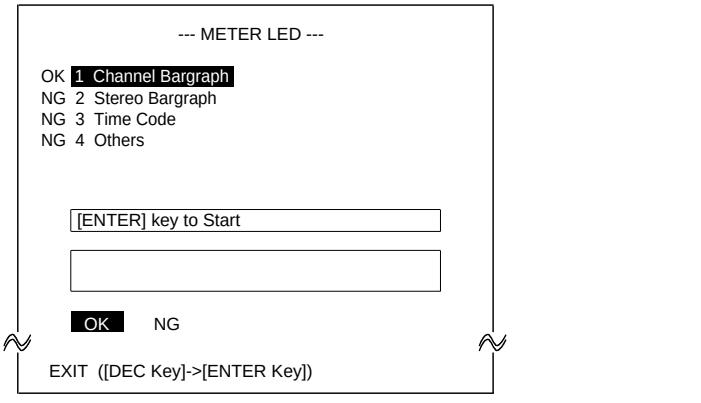
Example of execution screen



1-36 METER LED Test

Contents: Visually check if MB2000's LEDs and 7-seg LEDs light correctly in the order specified.

Example of execution screen



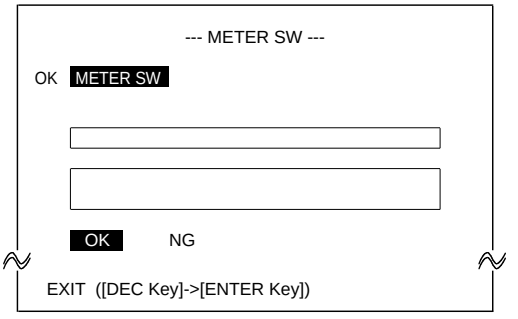
The orders of lighting are as follows:

1) Channel bar graph is turned on. (LED lighting order: CH1: Lower→Upper..CH24: Lower→Upper)
2) Stereo bar graph is turned on. (LED lighting order: Stereo L: Lower→Upper, Stereo R: Lower→Upper)
3) TIME CODE: lighting repeated as H10→H1→M10→M1→S10→S1→F10→F1(Lighting order: →1..9→.(dot))
4) Other lighting
(CH1-24_1 → CH25-48_1 → .. → BUS1-24_1 → CH1-48_1 → CH49-96_1 →CH1-24_2 → CH25-48_2 → .. → BUS1-24_4 → CH1-48_4 → CH49-96_4 →INPUT PRE EQ → PRE FADER → .. → OUTPUT PRE FADER → POST FADER → PEAK HOLD SW → 1-24 SW → 25-48 SW → .. → MASTER SW → REMOTE1 SW → .. → REMOTE4 SW → 1-48 SW→ 49-96 SW → CONTROL ROOM)

1-37 METER SW Test

Contents: Press the SWs of MB2000 to check if the corresponding LED turns ON/OFF.

Example of execution screen



Correspondence between SWs and LEDs is as follow:

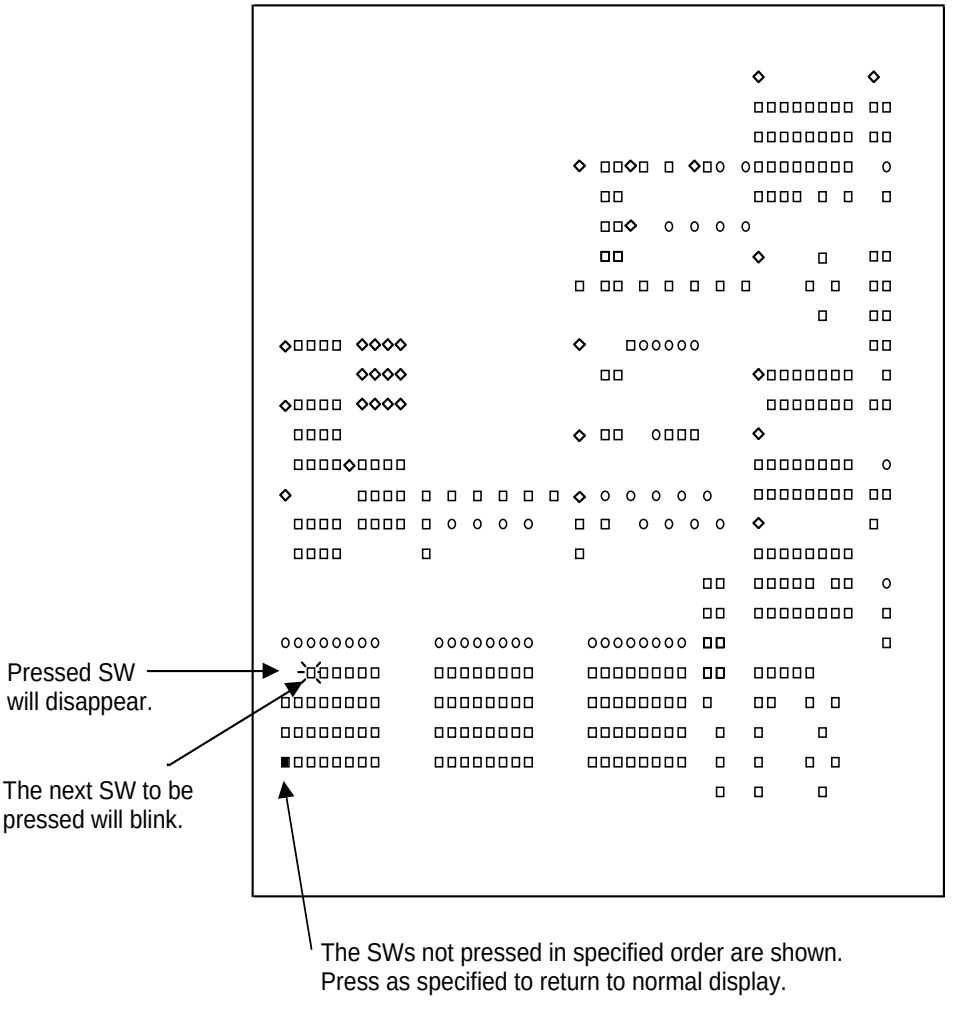
Switch	LED
INPUT METERING POSTION	PRE EQ
OUTPUT METERING POSTION	PRE EQ
PEAK HOLD	PEAK HOLD
1-24	1-24
25-48	25-48
49-72	49-72
73-96	73-96
MASTER	MASTER
1-48	1-48
49-96	49-96
REMOTE1	REMOTE1
REMOTE2	REMOTE2
REMOTE3	REMOTE3
REMOTE4	REMOTE4
CONTROL ROOM	CONTROL ROOM

2. Supplement

LCD Display Fig.1 PANEL SW operation sequence Screen

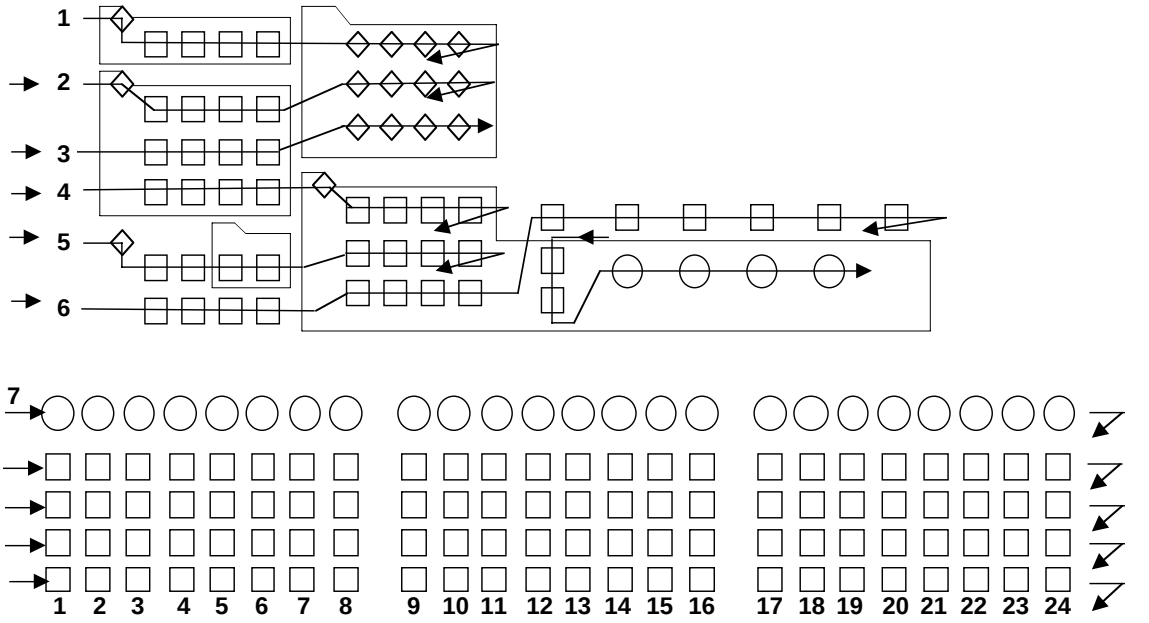
(For operation sequence, see “SW operation Fig.1and 2.)

LCD display: 53 columns x 30 lines (320 x 240 dots with Font5x7)

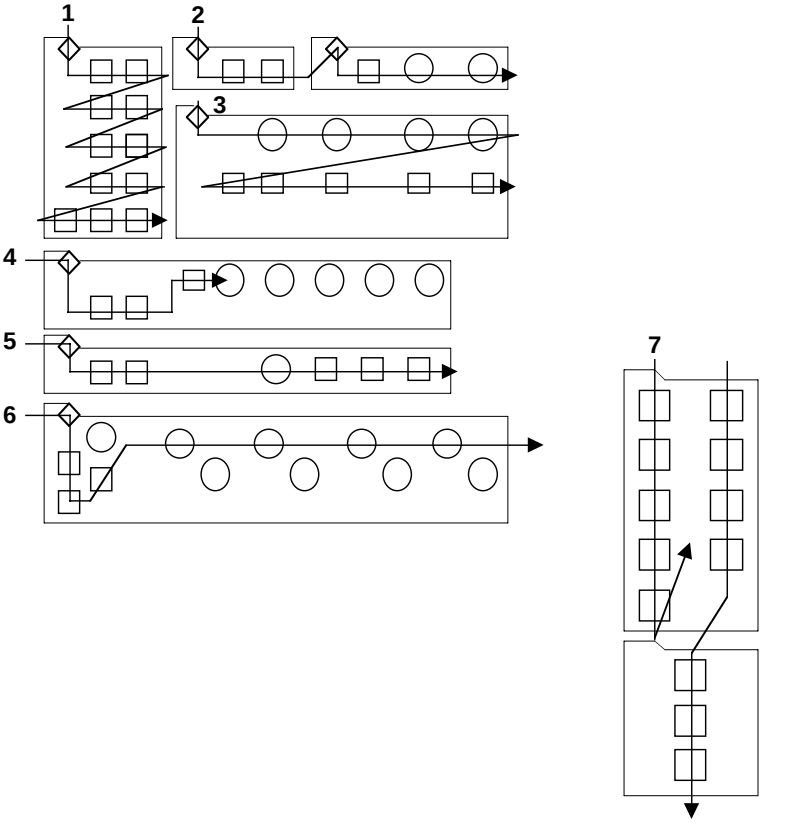


SW Operation Fig.1

GROUP1

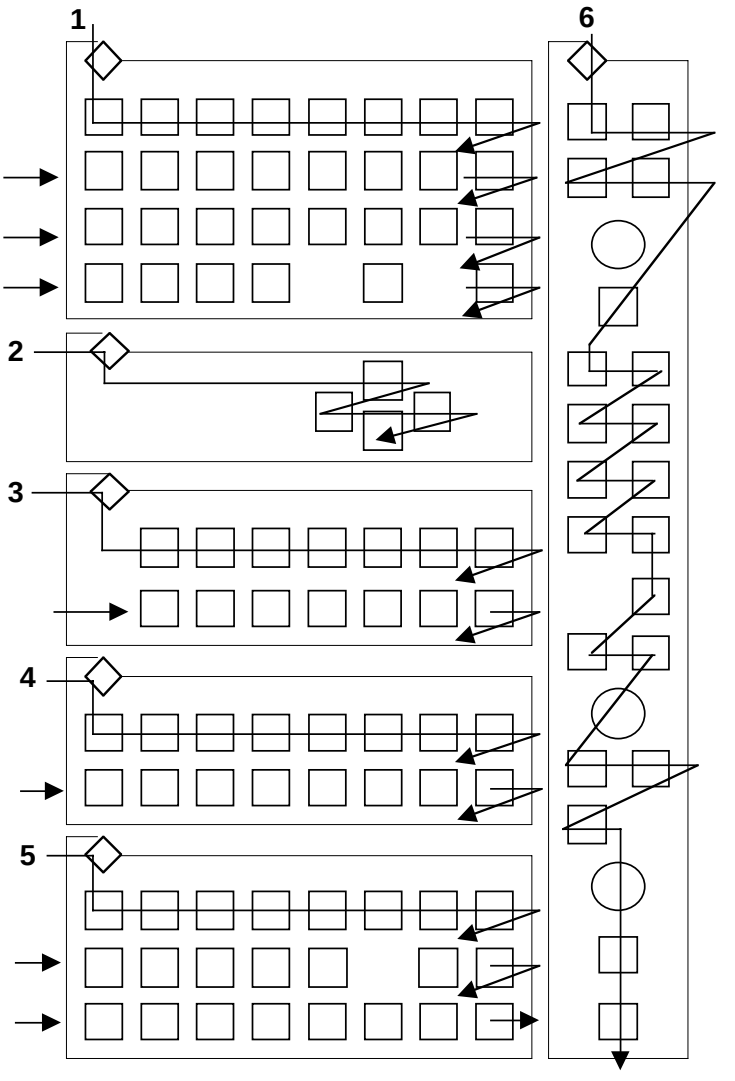


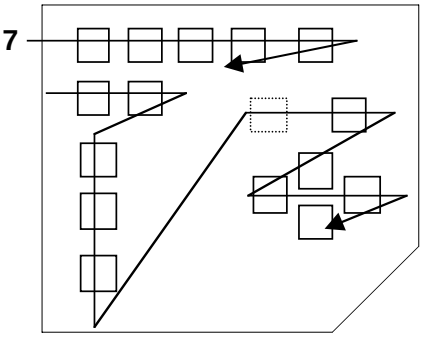
GROUP2



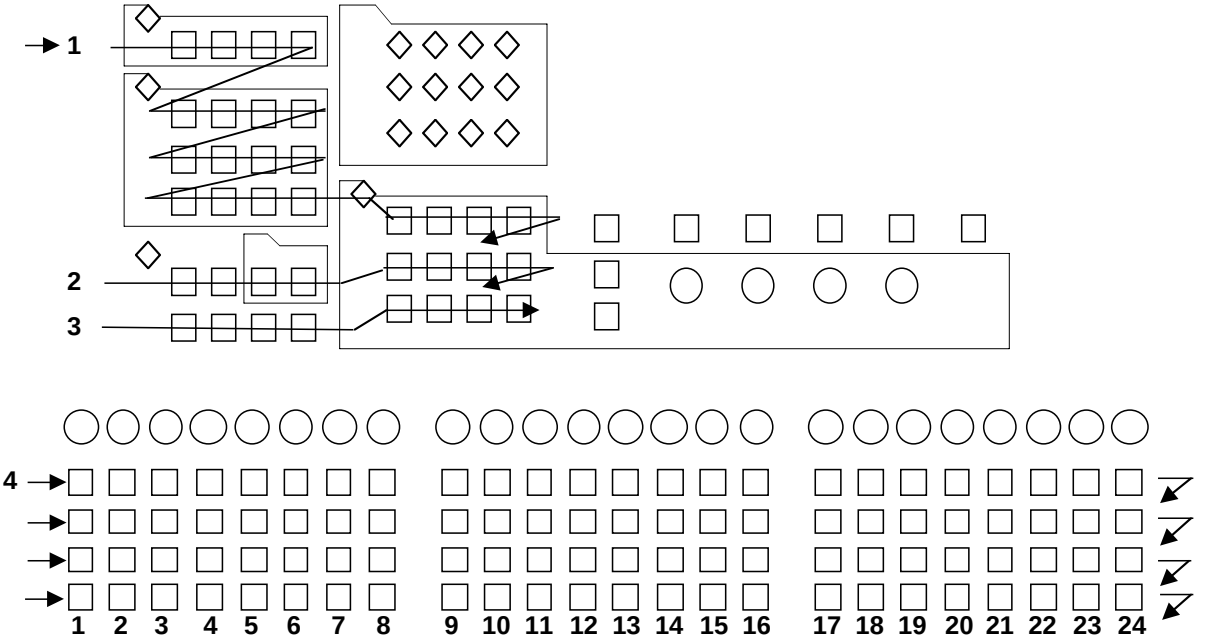
SW Operation Fig.2

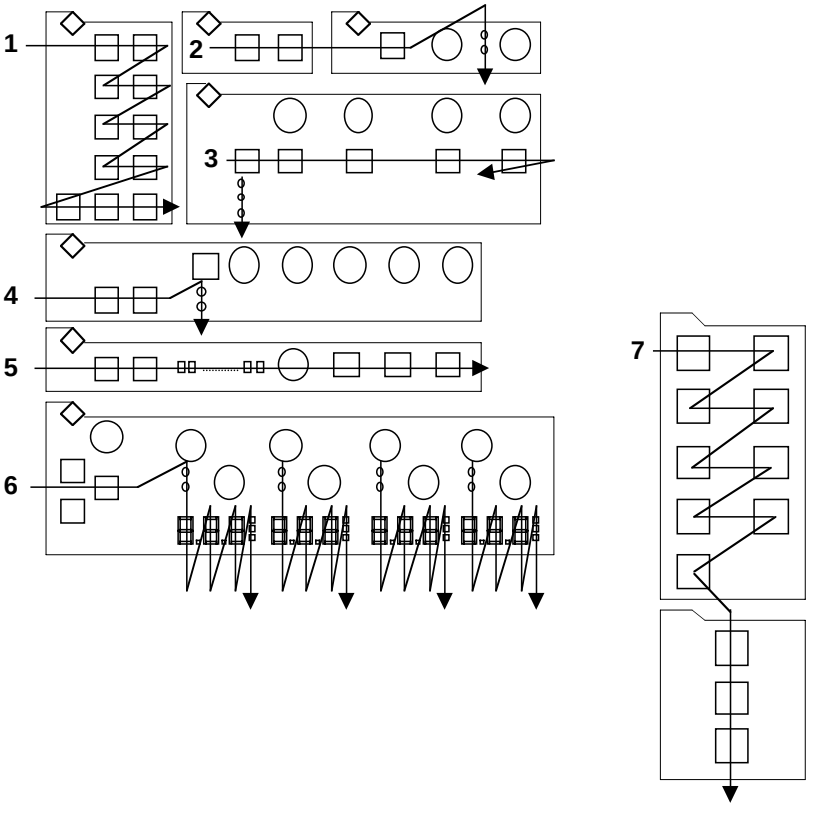
GROUP3



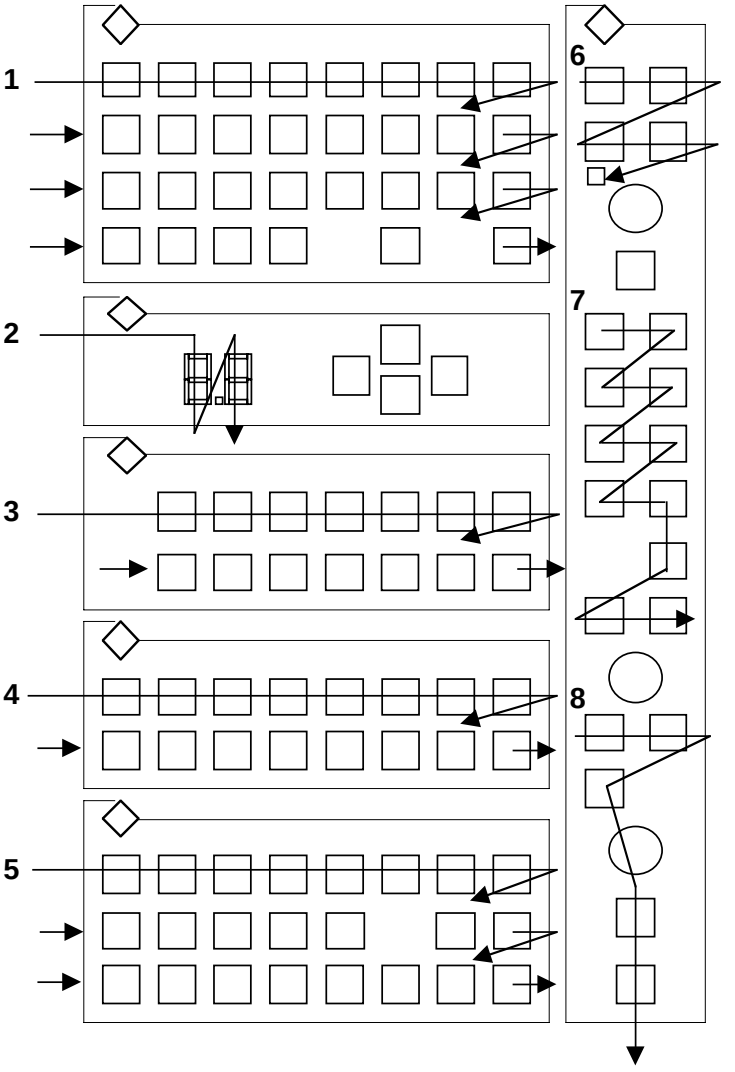


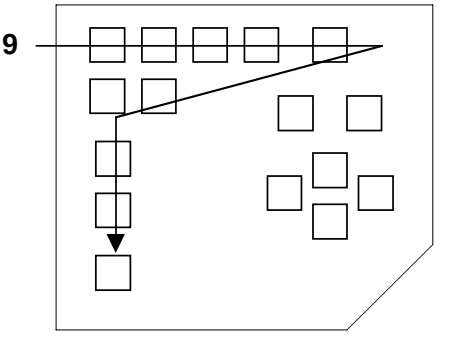
LED Lighting Sequence Fig.1





LED Lighting Sequence Fig.2





■ TEST PROGRAM

✻ Execute the test program for MB2000.

1. Preparation

1) Connect the D-sub 15pin cable to the [MBTER] terminal in the rear of DM2000.
2) If DM2000 is not provided, supply +12V between +12V and GND from an external power supply.
   Note) Loop Back test will result in ERROR if independent test is carried out with being connected to the body of DM2000.

2. Starting the test program

1) Turn on the power while pressing the [PEAK HOLD] switch and the [CONTROL ROOM] switch to go to the independent test mode and start the SW check.
2) Press the [PEAK HOLD] switch and the [CONTROL ROOM] switch again to start the LED check 1. (To restart the SW check, turn on the power once again.)
3) After this, the test item will be changed by pressing the [REMOTE 1] switch and the [REMTE 2] switch.
4) Pressing [1-48] switch and [49-96] switch will change LED light duration time.

3. Check items

3-1 SW check

Judge by LED light ON/OFF when each switch is pressed.

Switch	Action
INPUT METERING POSTION	PRE EQ turned ON/OFF
OUTPUT METERING POSTION	PRE EQ turned ON/OFF
PEAK HOLD	PEAK HOLD LED turned ON/OFF
1-24	1-24 LED turned ON/OFF
25-48	25-48 LED turned ON/OFF
49-72	49-72 LED turned ON/OFF
73-96	73-96 LED turned ON/OFF
MASTER	MASTER LED turned ON/OFF
1-48	1-48 LED turned ON/OFF
49-96	49-96 LED turned ON/OFF
REMOTE1	REMOTE1 LED turned ON/OFF
REMOTE2	REMOTE2 LED turned ON/OFF
REMOTE3	REMOTE3 LED turned ON/OFF
REMOTE4	REMOTE4 LED turned ON/OFF
CONTROL ROOM	CONTROL ROOM LED turned ON/OFF

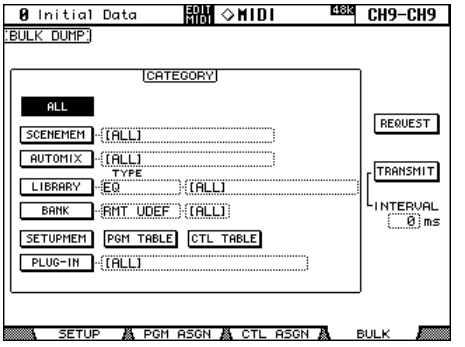
3-2 LED check

Check number	Check item
1	Communication Loop Back test Normal:'0', Error:H10='E'
REMOTE↓↑REMOTE2	
2	LED full bright
3	Green LED full bright
4	Orange LED full bright
5	Red LED full bright
6	Channel bar-graph turned ON (LED light sequence: CH1: lower → upper..CH24: lower → upper)
7	Stereo bar-graph turned ON (LED light sequence: STEREO L: lower → upper, STEREO R: lower → upper)
8	Other lights turned ON (CH1-24_1 → CH25-48_1 → .. → BUS1-24_1 → CH1-48_1 → CH49-96_1 → CH1-24_2 → CH25-48_2 → .. → BUS1-24_4 → CH1-48_4 → CH49-96_4 → INPUT PRE EQ → PRE FADER → .. → OUTPUT PRE FADER → POST FADER → PEAK HOLD SW → 1-24 SW → 25-48 SW → .. → MASTER SW → 1-48 SW → REMOTE1 SW → .. → REMOTE4 SW → 49-96 SW → CONTROL ROOM)
9	TIME CODE H10 → H1 → M10 → M1 → S10 → S1 → F10 → F1 Repeat this sequence. (Lighting sequence: 0 → 1..9 → . (dot))

USING BULK DUMP

DM2000 data can be stored to an external MIDI device, such as a MIDI data filer, by using MIDI Bulk Dump.

1 Use the DISPLAY ACCESS [MIDI] button to locate the Bulk Dump page.



2 To transmit data, use the CATEGORY parameters to select the type of data you want to transmit, select the TRANSMIT button, and then press [ENTER].

3 To receive data, use the CATEGORY parameters to select the type of data you want to receive, select the REQUEST button, and then press [ENTER].

The INTERVAL parameter sets the interval between data packets during transmission.

The CATEGORY parameters can be set as follows:

ALL: All data.

SCENE MEM: ALL Scenes, individual Scenes, or current (i.e., the Edit buffer).

AUTOMIX: ALL Automixes, individual Automixes, or the current Automix.

LIBRARY: The following libraries: EQ, Gate, Comp, Channel, Effects, GEQ, Bus to Stereo, Input Patch, Output Patch, Surround Monitor. For each library you can specify ALL user memories, individual user memories, and for the Bus to Stereo, Input Patch, Output Patch, Surround Monitor libraries you can also specify the current settings.

BANK: User Defined Remote Layer banks, User Defined Plug-Ins banks, or the User Defined Keys banks. For each item you can specify ALL or individual banks.

SETUP MEM: DM2000 setup data (i.e., system settings).

PGM TABLE: Scene to MIDI Program Change table.

CTL TABLE: Parameter to MIDI Control Change table.

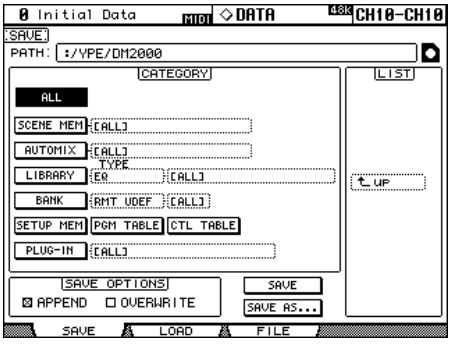
PLUG-IN: The settings of any installed Y56K cards. You can specify ALL Slots or Slots 4–6 individually.

SAVING DM2000 DATA TO SMARTMEDIA

Saving

DM2000 Data can be saved to SmartMedia as follows.

1 Use the DISPLAY ACCESS [DATA] button to locate the Save page.



2 Insert your SmartMedia card into the CARD slot.

If the card doesn't have a "/YPE/DM2000" directory, a confirmation message appears and you should choose YES to make the directory.

The LIST box displays files and directories alphabetically. Only files of the currently selected CATEGORY are displayed. All files are displayed when the CATEGORY is set to ALL. Use the cursor buttons to select the LIST box, and then use the Parameter wheel or INC/DEC buttons to select files and directories. Directories have a small "D" next to their name. You can open the currently selected directory by pressing [ENTER]. To move up the directory structure, select "up," and then press [ENTER]. You cannot move up beyond the "/YPE/DM2000" directory.

The PATH box indicates the path of the currently selected file. The SmartMedia icon to the right of the PATH box indicates whether or not a SmartMedia card is inserted: "O" when a card is inserted, "X" when no card is inserted.

3 To save data, use the CATEGORY parameters to select the type of data you want to save, use the LIST box to select where you want to save the data, select the SAVE button, and then press [ENTER].

When the Title Edit window appears, enter a filename, and press OK when you've finished.

You can save data with a different name by using the SAVE AS button.

When saving individual items, such as Scenes or library memories, you can use the SAVE OPTIONS APPEND and OVERWRITE to append individual memories to existing files or to overwrite them. The SAVE OPTIONS are unavailable when ALL, or SCENE MEM ALL, AUTOMIX ALL, LIBRARY ALL, BANK ALL, or PLUG IN ALL is selected.

The CATEGORY parameters can be set as follows:

ALL: Saves all data.

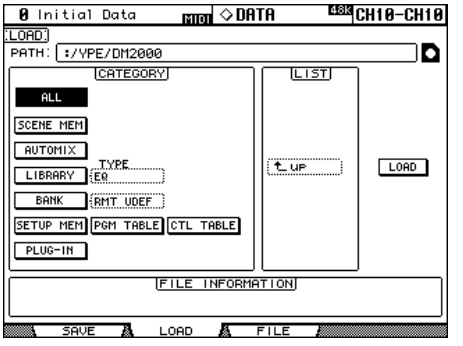
SCENE MEM: Saves Scenes. You can save ALL Scenes, individual Scenes, or the Edit Buffer (i.e., the current Scene).

AUTOMIX: Saves Automixes. You can save ALL Automixes, individual Automixes, or the current Automix.
LIBRARY: Saves the following libraries: EQ, Gate, Comp, Channel, Effects, GEQ, Bus to Stereo, Input Patch, Output Patch, Surround Monitor. For each library you can select ALLuser memories, individual user memories, and for the Bus to Stereo, Input Patch, Output Patch, Surround Monitor libraries you can also select the current settings.
BANK: Saves the User Defined Remote banks, User Defined Plug-Ins banks, or the User Defined Keys banks. For each item you can select ALL or individual banks.
SETUP MEM: Saves the DM2000 setup data (i.e., system settings).
PGM TABLE: Saves the Scene to MIDI Program Change table.
CTL TABLE: Saves the Parameter to MIDI Control Change table.
PLUG-IN: Saves the settings of the effects processing cards installed in the Slots. You can save ALL Slots or individual Slots.

Loading

DM2000 data can be loaded from SmartMedia as follows.

1 Use the DISPLAY ACCESS [DATA] button to locate the Load page.



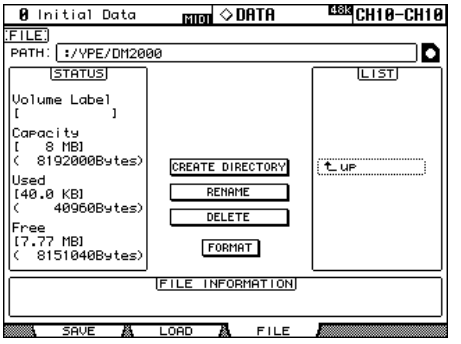
2 Insert your SmartMedia card into the CARD slot.

3 To load data, use the buttons in the CATEGORY box to select the type of file you want to load, select a file in the LIST box, select the LOAD button, and then press [ENTER].
The FILE INFORMATION box displays the filename and the date when the currently selected file was last stored. See “Saving” on page 184 for information on the PATH and LIST boxes and the SmartMedia icon.

Managing Files & SmartMedia

Files stored on SmartMedia can be renamed and deleted as follows.

1 Use the DISPLAY ACCESS [DATA] button to locate the File page.



2 Insert your SmartMedia card into the CARD slot.

If the card doesn't have a "/YPE/DM2000" directory, a confirmation message appears and you should choose YES to make the directory.

The FILE INFORMATION box displays the filename and the date when the currently selected file was last stored. See "Saving" on page 184 for information on the PATH and LIST boxes and the SmartMedia icon.

The STATUS box displays information about the currently inserted SmartMedia card, including, its Volume Label, total Capacity, amount of Used space, and amount of Free space.

3 To create a new directory, use the LIST box to select the directory in which you want to create the new directory, select the CREATE DIRECTORY button, and then press [ENTER].

When the Title Edit window appears, enter a name for the new directory, and press OK when you've finished.

4 To rename a file or directory, use the LIST box to select that file or directory, select the RENAME button, and then press [ENTER].

When the Title Edit window appears, edit the name, and press OK when you've finished.

5 To delete a file or directory, use the LIST box to select that file or directory, select the DELETE button, and then press [ENTER].

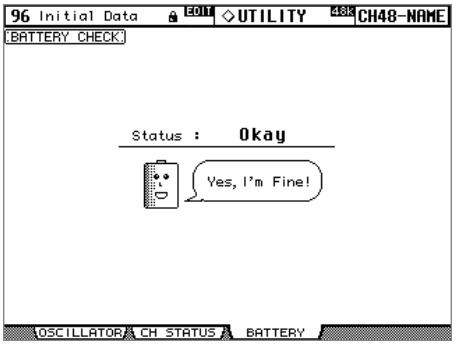
6 To format a SmartMedia card, select the FORMAT button, and press [ENTER].

When the Title Edit window appears, enter a volume label for the card, and press OK when you've finished. The directory "/YPE/DM2000" is created automatically.

CHECKING THE BATTERY

The condition of the internal memory-backup battery can be checked as follows.

1 Use the DISPLAY ACCESS [UTILITY] button to locate the Battery Check page.



If the Status is “Okay,” the battery is okay. If the Status is “Getting Low,” failure to replace a low battery may result in data loss.

INITIALIZING THE DM2000

The DM2000 can be initialized as follows.

Warning: *This procedure will clear all user memories and reset all settings to their initial values. You may want to back up any important data beforehand via MIDI Bulk Dump (see page 183), or to SmartMedia (see page 184). If you want to reset just the mix settings, recall scene memory #0 instead.*

1 Turn off the DM2000.

2 While holding down the SCENE MEMORY [STORE] button, turn on the DM2000.

3 When the confirmation message appears, release the SCENE MEMORY [STORE] button, select YES, and press [ENTER].

The following message is displayed while initialization is in progress: “Loading Factory Presets & Calibrating the Faders... Do Not Touch the Faders!”

It’s important that you do not touch the faders while this message is displayed.

The display returns to normal when initialization is complete.

MIDI DATA FORMAT

Scene Memory to Program Change Table

Program Change #	Initial Scene #	User Scene #
1	01	
2	02	
3	03	
4	04	
5	05	
6	06	
7	07	
8	08	
9	09	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	
34	34	
35	35	
36	36	
37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
43	43	

Program Change #	Initial Scene #	User Scene #
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	
61	61	
62	62	
63	63	
64	64	
65	65	
66	66	
67	67	
68	68	
69	69	
70	70	
71	71	
72	72	
73	73	
74	74	
75	75	
76	76	
77	77	
78	78	
79	79	
80	80	
81	81	
82	82	
83	83	
84	84	
85	85	
86	86	

Program Change#	Initial Scene #	User Scene #
87	87	
88	88	
89	89	
90	90	
91	91	
92	92	
93	93	
94	94	
95	95	
96	96	
97	97	
98	98	
99	99	
100	00	
101	—	
102	—	
103	—	
104	—	
105	—	
106	—	
107	—	
108	—	
109	—	
110	—	
111	—	
112	—	
113	—	
114	—	
115	—	
116	—	
117	—	
118	—	
119	—	
120	—	
121	—	
122	—	
123	—	
124	—	
125	—	
126	—	
127	—	
128	—	

Initial Parameter to Control Change Table

#	High	Mid	Low
0	NO ASSIGN		
1	FADER H	CHANNEL	INPUT1
2	FADER H	CHANNEL	INPUT2
3	FADER H	CHANNEL	INPUT3
4	FADER H	CHANNEL	INPUT4
5	FADER H	CHANNEL	INPUT5
6	FADER H	CHANNEL	INPUT6
7	FADER H	CHANNEL	INPUT7
8	FADER H	CHANNEL	INPUT8
9	FADER H	CHANNEL	INPUT9
10	FADER H	CHANNEL	INPUT10
11	FADER H	CHANNEL	INPUT11
12	FADER H	CHANNEL	INPUT12
13	FADER H	CHANNEL	INPUT13
14	FADER H	CHANNEL	INPUT14
15	FADER H	CHANNEL	INPUT15
16	FADER H	CHANNEL	INPUT16
17	FADER H	CHANNEL	INPUT17
18	FADER H	CHANNEL	INPUT18
19	FADER H	CHANNEL	INPUT19
20	FADER H	CHANNEL	INPUT20
21	FADER H	CHANNEL	INPUT21
22	FADER H	CHANNEL	INPUT22
23	FADER H	CHANNEL	INPUT23
24	FADER H	CHANNEL	INPUT24
25	FADER H	CHANNEL	INPUT25
26	FADER H	CHANNEL	INPUT26
27	FADER H	CHANNEL	INPUT27
28	FADER H	CHANNEL	INPUT28
29	FADER H	CHANNEL	INPUT29
30	FADER H	CHANNEL	INPUT30
31	FADER H	CHANNEL	INPUT31
32	NO ASSIGN		
33	FADER L	CHANNEL	INPUT1
34	FADER L	CHANNEL	INPUT2
35	FADER L	CHANNEL	INPUT3
36	FADER L	CHANNEL	INPUT4
37	FADER L	CHANNEL	INPUT5
38	FADER L	CHANNEL	INPUT6
39	FADER L	CHANNEL	INPUT7
40	FADER L	CHANNEL	INPUT8
41	FADER L	CHANNEL	INPUT9
42	FADER L	CHANNEL	INPUT10
43	FADER L	CHANNEL	INPUT11
44	FADER L	CHANNEL	INPUT12
45	FADER L	CHANNEL	INPUT13
46	FADER L	CHANNEL	INPUT14
47	FADER L	CHANNEL	INPUT15
48	FADER L	CHANNEL	INPUT16
49	FADER L	CHANNEL	INPUT17
50	FADER L	CHANNEL	INPUT18
51	FADER L	CHANNEL	INPUT19
52	FADER L	CHANNEL	INPUT20
53	FADER L	CHANNEL	INPUT21
54	FADER L	CHANNEL	INPUT22
55	FADER L	CHANNEL	INPUT23
56	FADER L	CHANNEL	INPUT24
57	FADER L	CHANNEL	INPUT25
58	FADER L	CHANNEL	INPUT26
59	FADER L	CHANNEL	INPUT27
60	FADER L	CHANNEL	INPUT28
61	FADER L	CHANNEL	INPUT29
62	FADER L	CHANNEL	INPUT30
63	FADER L	CHANNEL	INPUT31
64	ON	CHANNEL	INPUT1
65	ON	CHANNEL	INPUT2
66	ON	CHANNEL	INPUT3
67	ON	CHANNEL	INPUT4
68	ON	CHANNEL	INPUT5
69	ON	CHANNEL	INPUT6
70	ON	CHANNEL	INPUT7
71	ON	CHANNEL	INPUT8
72	ON	CHANNEL	INPUT9
73	ON	CHANNEL	INPUT10
74	ON	CHANNEL	INPUT11
75	ON	CHANNEL	INPUT12
76	ON	CHANNEL	INPUT13
77	ON	CHANNEL	INPUT14
78	ON	CHANNEL	INPUT15
79	ON	CHANNEL	INPUT16
80	ON	CHANNEL	INPUT17
81	ON	CHANNEL	INPUT18
82	ON	CHANNEL	INPUT19
83	ON	CHANNEL	INPUT20
84	ON	CHANNEL	INPUT21
85	ON	CHANNEL	INPUT22
86	ON	CHANNEL	INPUT23
87	ON	CHANNEL	INPUT24
88	ON	CHANNEL	INPUT25
89	PAN	CHANNEL	INPUT1
90	PAN	CHANNEL	INPUT2
91	PAN	CHANNEL	INPUT3
92	PAN	CHANNEL	INPUT4
93	PAN	CHANNEL	INPUT5
94	PAN	CHANNEL	INPUT6
95	PAN	CHANNEL	INPUT7
96	PAN	CHANNEL	INPUT8
97	PAN	CHANNEL	INPUT9
98	PAN	CHANNEL	INPUT10
99	PAN	CHANNEL	INPUT11
100	PAN	CHANNEL	INPUT12
101	PAN	CHANNEL	INPUT13
102	PAN	CHANNEL	INPUT14
103	PAN	CHANNEL	INPUT15
104	PAN	CHANNEL	INPUT16
105	PAN	CHANNEL	INPUT17
106	PAN	CHANNEL	INPUT18
107	PAN	CHANNEL	INPUT19
108	PAN	CHANNEL	INPUT20
109	PAN	CHANNEL	INPUT21
110	PAN	CHANNEL	INPUT22
111	PAN	CHANNEL	INPUT23
112	PAN	CHANNEL	INPUT24
113	PAN	CHANNEL	INPUT25
114	PAN	CHANNEL	INPUT1
115	PAN	CHANNEL	INPUT2
116	PAN	CHANNEL	INPUT3
117	PAN	CHANNEL	INPUT4
118	PAN	CHANNEL	INPUT5
119	PAN	CHANNEL	INPUT6

MIDI Data Format

1. CHANNEL MESSAGE

Command	rx/tx	function
8n NOTE OFF	rx	Control the internal effects
9n NOTE ON	rx	Control the internal effects
Bn CONTROL CHANGE	rx/tx	Control parameters
Cn PROGRAM CHANGE	rx/tx	Switch scene memories

2. SYSTEM COMMON MESSAGE

Command	rx/tx	function
F1 MIDI TIME CODE QUARTER FRAME	rx	Used when TIME REFERENCE is MIDI CLOCK.
F2 SONG POSITIONPOINTER	rx	Used when TIME REFERENCE is MIDI CLOCK.

3. SYSTEM REALTIME MESSAGE

Command	rx/tx	function
F8 TIMING CLOCK	rx	MIDI clock
FA START	rx*	Start automix (from the beginning)
FB CONTINUE	rx*	Start automix (from the middle)
FC STOP	rx*	Stop automix
FE ACTIVE SENSING	rx	Check MIDI cable connections
FF RESET	rx	Clear running status

Received only when the Automix TIME REFERENCE setting is MIDI CLOCK.

4. EXCLUSIVE MESSAGE

4.1 Real Time System Exclusive

Command	rx/tx	function
F0 7F dd 06 MMC COMMAND	tx	MMC command (refer to MMC specification)
F0 7F dd 07 MMC RESPONSE	rx	MMC response(refer to MMC specification)
F0 7F dd 01 MIDI TIME CODE	rx	Usedwhen TIME REFERENCE is MTC.

4.2 System Exclusive Message

4.2.1 Bulk Dump

Command	rx/tx	function
F0 43 0n 7E BULK DUMP DATA	rx/tx	BULK DUMP DATA
F0 43 2n 7E BULK DUMP REQUEST	rx/tx	BULK DUMP REQUEST

The following data types of bulk dump are used on the DM2000.

Data name	tx/rx	function
'm'	tx/rx	Scene Memory & Request
'S'	tx/rx	Setup Memory & Request
'a'	tx/rx	Automix data & Request
'R'	tx/rx	Input patch library & Request
'O'	tx/rx	Output patch library & Request
'H'	tx/rx	Channel library & Request
'G'	tx/rx	Gate library & Request
'Y'	tx/rx	Compressor library & Request
'Q'	tx/rx	Equalizer library & Request
'E'	tx/rx	Effect library & Request
'F'	tx/rx	GEQ library & Request
'J'	tx/rx	Bus to Stereo library & Request
'K'	tx/rx	Surround Monitor library & Request
'P'	tx/rx	Program change table & Request
'C'	tx/rx	Control change table & Request
'L'	tx/rx	User define layer & Request
'I'	tx/rx	Plug-in User define & Request
'V'	tx/rx	User define key & Request
'N'	tx/rx	Plug-in Effect Card Data & Request

4.2.2 PARAMETER CHANGE

Command	rx/tx	function
F0 43 1n 3E 06 PARAMETER CHANGE	rx/tx	DM2000-specific parameter change
F0 43 3n 3E 06 PARAMETER REQUEST	rx/tx	DM2000-specific parameter request
F0 43 1n 3E 7F PARAMETER CHANGE	rx/tx	General purpose digital mixer parameter change
F0 43 3n 3E 7F PARAMETER REQUEST	rx/tx	General purpose digital mixer parameter request

The following data types of parameter change are used by the DM2000.

Type	tx/rx	function
1	tx/rx	Edit buffer
2	tx/rx	Patch data
3	tx/rx	Setup data
4	tx/rx	Backup data
16	tx/rx	Function (recall, store, title, pair)
32	tx/rx	Key remote
33	tx/rx	remote meter
34	tx/rx	remote counter

4.2.3 Card Filer

Command	rx/tx	Function
F0 43 5n CARD FILER	rx/tx	Packet for cardfiler (refer to Card Filer specification)

** tx means that the data can be transmitted from the DM2000. rx means that the data can be received by the DM2000.

Format Details

1. NOTE OFF (8n)

Reception

Received when the [Rx CH] matches.
Used to control effects.

STATUS	1000nnnn	8n	Note off message
DATA	0nnnnnnn	nn	Note number
	0vvvvvvv	vv	Velocity (ignored)

2. NOTE ON (9n)

Reception

Received when the [Rx CH] matches.
Used to control effects.

STATUS	1001nnnn	9n	Note on message
DATA	0nnnnnnn	nn	Note number
	0vvvvvvv	vv	Velocity (1-127:on, 0:off)

3. CONTROL CHANGE (Bn)

Reception

Received when [Control Change Rx] is ON and the [Rx CH] matches. However if [OMNI] is ON, this is received regardless of the channel. If [Control Change ECHO] is ON, these messages are echoed to MIDI OUT. If [TABLE] is selected, parameters will be controlled according to the settings of the [Control assign table]. The parameters that can be set are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST. If [NRPN] is selected, four messages are used to control the defined parameter: NRPN control numbers (62h, 63h) and DATA ENTRY control numbers (06h, 26h). Parameter settings are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST.

Transmission

If [TABLE] is selected, operating the parameters specified in the [Control assign table] will cause these messages to be transmitted on the [Tx CH] if [Control Change TX] is ON. The parameters that can be specified are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST.
If [NRPN] is selected, operating the specified parameters will cause data to be transmitted on the [Tx CH] if [Control Change TX] is ON, using four messages: NRPN control numbers (62h, 63h) and DATA ENTRY control numbers (06h, 26h). Parameter settings are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST.

If [TABLE] is selected

STATUS	1011nnnn	Bn	Control change
DATA	0ccccccc	cc	Control number (0-95, 102-119)
	0vvvvvvv	vv	Control value (0-127)

If [NRPN] is selected

STATUS	1011nnnn	Bn	Control change	
DATA	01100010	62	NRPN LSB	
	0vvvvvvv	vv	LSB of parameter number	
STATUS	1011nnnn	Bn	Control change	*1
DATA	01100011	63	NRPN MSB	
	0vvvvvvv	vv	MSB of parameter number	
STATUS	1011nnnn	Bn	Control change	*1
DATA	00100110	26	LSB of data entry	
	0vvvvvvv	vv	LSB of parameter data	
STATUS	1011nnnn	Bn	Control change	*1, *2
DATA	00000110	06	MSB of data entry	*2
	0vvvvvvv	vv	MSB of parameter data	*2

*1) There is no particular need to add the 2nd, 3rd, and 4th status for transmission. However if these are present during reception, they should be received.
*2) Does not need to be transmitted if the parameter data fits within 7 bits.

4. PROGRAM CHANGE (Cn)

Reception

This message is received if [Program Change RX] is ON and [Rx CH] matches. However if [OMNI] is ON, this is received regardless of the channel.
A scene memory will be recalled according to the settings of the [Program Change Table].
This message will be echoed if [Program Change ECHO] is ON.

Transmission

If [Program Change TX] is ON, this message is transmitted according to the settings of the [Program Change Table] on the [Tx CH] channel when a scene memory is recalled.
If the recalled scene has been assigned to more than one program number, the lowest-numbered program number will be transmitted. Transmission to Studio Manager using Program Change messages will not be performed since there is no guarantee that the contents of the tables will match. (Parameter Changes will always be used.)

STATUS	1100nnnn	Cn	Program change
DATA	0nnnnnnn	nn	Program number (0-127)

5. SONG POSITION POINTER (F2)

Reception

If this is received when the automix TIME REFERENCE setting is MIDI CLOCK, the automix will move to the song position that was received.

STATUS	11110010	F2	Song position pointer
DATA	0vvvvvvv	vv	Song position LSB
	0vvvvvvv	vv	Song position MSB

6. TIMING CLOCK (F8)

Reception

If the automix TIME REFERENCE setting is MIDI CLOCK, this message is used to synchronize automix. It is also used to control effects. This message is transmitted 24 times per quarter note.

STATUS	11111000	F8	Timing clock

7. START (FA)

Reception

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will start the automix. In actuality, automix will start when the next TIMING CLOCK is received after receiving the START message.

STATUS	11111010	FA	Start

8. CONTINUE (FB)

Reception

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will cause automix to start from the current song position. In actuality, automix will start when the next TIMING CLOCK is received after receiving the CONTINUE message.

STATUS	11111011	FB	Continue

9. STOP (FC)

Reception

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will cause automix to stop.

STATUS	11111100	FC	Stop

10. ACTIVE SENSING (FE)

Reception

Once this message has been received, the failure to receive any message for an interval of 400 ms or longer will cause MIDI transmission to be initialized, such as by clearing the Running Status.

STATUS	11111101	FE	Active sensing

11. SYSTEM RESET (FF)

Reception

When this message is received, MIDI communications will be cleared, e.g., by clearing the Running Status.

STATUS	11111111	FF	System reset

12. SYSTEM EXCLUSIVE MESSAGE (F0)

12.1 MIDI MACHINE CONTROL (MMC)

These messages are transmitted when the Machine Control section of the DM2000 is operated. For details, refer to the MMC specification.

12.2 BULK DUMP

This message sends or receives the contents of various memories stored within the DM2000.
The basic format is as follows.

For DUMP DATA

```
F0 43 0n 7E cc cc <Model ID> tt mm mm [Data ...]
cs F7
```

For DUMP REQUEST

```
F0 43 2n 7E <Model ID> tt mm mm F7
```

n	Device Number
cc cc	DATA COUNT (the number of bytes that follow this, ending before the checksum)
<Model ID>	Model ID (for the DM2000, this is 4C 4D 20 20 38 43 31 32)
tt	DATA TYPE
mm mm	DATA NUMBER
cs	CHECK SUM

A unique header (Model ID) is used to determine whether the device is a DM2000.
CHECK SUM is obtained by adding the bytes that follow BYTE COUNT (LOW) and end before CHECK SUM, taking the binary compliment of this sum, and then setting bit 7 to 0.

```
CHECK SUM = (-sum)&0x7F
```

Reception

This message is received if [Bulk RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
When a bulk dump is received, it is immediately written into the specified memory.
When a bulk dump request is received, a bulk dump is immediately transmitted.

Transmission

This message is transmitted on the [Tx CH] by key operations in the [MIDI]-[BULK DUMP] screen.
A bulk dump is transmitted on the [Rx CH] in response to a bulk dump

request.
The data area is handled by converting seven words of 8-bit data into eight words of 7-bit data.

[Conversion from actual data into bulk data]

```
d[0~6]: actual data
b[0~7]: bulk data
b[0] = 0;
for( I=0; I<7; I++){
    if( d[I]&0x80){
        b[0] |= 1<<(6-I);
    }
    b[I+1] = d[I]&0x7F;
}
```

[Restoration from bulk data into actual data]

```
d[0~6]: actual data
b[0~7]: bulk data
for( I=0; I<7; I++){
    b[0] <<= 1;
    d[I] = b[I+1]+(0x80&b[0]);
}
```

12.2.1 Scene memory bulk dump format

The DM2000 can transmit and receive scene memories in compressed form.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01101101	6D	'm'
	0mmmmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	0mmmmmmm	ml	Receive is effective 1-99, 256
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Scene data of block[mm]
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.2 Scene memory bulk dump request format

The second and third bytes of the DATA NAME indicate the scene number that is being requested. If this is 256, the data of the edit buffer will be bulk-dumped.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01101101	6D	'm'
	0mmmmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	0mmmmmmm	ml	
EOX	11110111	F7	End of exclusive

12.2.3 Setup memory bulk dump format

Of the setup memory of the DM2000, this bulk-dumps data other than the User define layer, User define plug-in, User define keys, Control change table, and Program change table.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010011	53	'S'
	00000010	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Setup memory data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.4 Setup memory bulk dump request format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010011	53	'S'
	00000010	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.5 User define layer bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.
Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'

DATA NAME	01001100	4C	'L'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.1-4)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define layer
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.6 User define layer bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001100	4C	'L'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.1-4)
EOX	11110111	F7	End of exclusive

12.2.7 User define plug-in bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.
Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'I'
	00000000	00	
	0bbbbbbb	bb	b=0-7(bank no.1-8)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define plug-in data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.8 User define plug-in bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'I'
	00000000	00	
	0bbbbbbb	bb	b=0-7(bank no.1-8)
EOX	11110111	F7	End of exclusive

12.2.9 User Define Key bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.
Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010110	56	'V'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.A-D)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	User define key data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.10 User Define Key bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010110	56	'V'
BANK No.	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.A-D)
EOX	11110111	F7	End of exclusive

12.2.11 Control change table bulk dump format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)

FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	00000011	ch	data count = ch * 128 + cl
COUNT LOW	00010010	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Control change table data
	:	:	(342/7)*8+(342%7)+1=391bytes unfixed
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.12 Control change table bulk dump request format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.13 Program change table bulk dump format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Program change table data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.14 Program change table bulk dump request format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.15 Equalizer library bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.
0:Library no.1 - 199:Library no.200, 256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 and following are data for the corresponding channel of the edit buffer.
For reception by the DM2000, only the user area is valid. (40-199, 256-)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010001	51	'Q'
LIB. No. H	0bbbbbbb	bb	0-199(EQ Library no.1-200), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	EQ Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.16 Equalizer library bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'

DATA NAME	01010001	51	'Q'
LIB. No. H	0bbbbbbb	bb	0-199(EQ Library no.1-200), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
EOX	11110111	F7	End of exclusive

12.2.17 Compressor library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 and following are data for the corresponding channel of the edit buffer.
For reception by the DM2000, only the user area is valid. (36-127, 256-)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01011001	59	'Y'
LIB. No. H	0bbbbbbb	bb	0-127(COMP Library no.1-128), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	COMP Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.18 Compressor library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01011001	59	'Y'
LIB. No. H	0bbbbbbb	bb	0-127(COMP Library no.1-128), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
EOX	11110111	F7	End of exclusive

12.2.19 Gate library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96
256 and following are data for the corresponding channel of the edit buffer.
For reception by the DM2000, only the user area is valid. (4-127, 256-)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000111	47	'G'
LIB. No. H	0bbbbbbb	bh	0-127(GATE Library no.1-128), 256-351(channel current data)
LIB. No. L	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	GATE Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.20 Gate library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000111	47	'G'
LIB. No. H	0bbbbbbb	bh	0-127(GATE Library no.1-128), 256-351(channel current data)
LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.21 Effect library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.1 - 127:Library no.128, 256:EFFECT1 - 263:EFFEC8
256-263 are the data for the corresponding area of the edit buffer.
For reception by the DM2000, only the user area is valid. (52-127, 256-263)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000110	46	'E'

LIB. No. H	0bbbbbbb	bh	0-127(Effect Library no.1-128), 256-263(Effect1-8 current)
LIB. No. L	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Effect Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.22 Effect library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000110	46	'E'
LIB. No. H	0bbbbbbb	bh	0-127(Effect Library no.1-128), 256-263(Effect1-8 current)
LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.23 GEQ library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 128:Library no.128, 256:GEQ1 - 261:GEQ6
256-261 are the data for the corresponding area of the edit buffer.
For reception by the DM2000, only the user area is valid. (1-128, 256-261)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000111	47	'F'
LIB. No. H	0bbbbbbb	bh	0-128(GEQ Library no.0-128), 256-261(GEQ1-6 Current)
LIB. No. L	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	GEQ Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.24 GEQ library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000111	47	'F'
LIB. No. H	0bbbbbbb	bh	0-128(GEQ Library no.0-128), 256-261(GEQ1-6 current)
LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.25 Channel library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 128:Library no.128,
256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 and following are the data for the corresponding channel of the edit buffer.
For reception by the DM2000, only the user area is valid. (2-128, 256-)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'H'
LIB. No. H	0bbbbbbb	bh	0-128(Channel Library no.0-128), 256-(current)
LIB. No. L	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	channel Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.26 Channel library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001001	49	'H'
LIB. No. H	0bbbbbbb	bh	0-128(Channel Library no.0-128), 256-(current)

LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.27 Input patch library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current input patch data
For reception by the DM2000, only the user area is valid. (1-32, 256)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010010	52	'R'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Input Patch Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.28 Input patch library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current input patch data

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01010010	52	'R'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.29 Output patch library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current output patch data
For reception by the DM2000, only the user area is valid. (1-32, 256)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001111	4F	'O'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	00100000	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Input Patch Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.30 Output patch library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current output patch data

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001111	4F	'O'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.31 Bus to Stereo library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current data
For reception by the DM2000, only the user area is valid.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001010	4A	'J'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Input Patch Library data
	:	:	
	0ddddddd	de	

CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.32 Bus to Stereo library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current data

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001010	4A	'J'
	0bbbbbbb	bh	0-32 (Library no.0-32), 256 (Current data)
	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.33 Surround Monitor library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current data
For reception by the DM2000, only the user area is valid. (1-32, 256)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001011	4B	'K'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Input Patch Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.34 Surround Monitor library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.
0:Library no.0 - 32:Library no.32, 256:current data

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001011	4B	'K'
	0bbbbbbb	bh	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.35 Plug-in effect card bulk dump format

The second byte of the DATA NAME indicates the slot number.
0:SLOT 1 - 5:SLOT 6
The data is not received if the Developer ID and Product ID are different than the card that is installed in the slot.
The data is not transmitted if a valid plug-in effect card is not installed.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000001	41	'N'
	0mmmmmmm	mh	0-5 (SLOT1-6)
	0mmmmmmm	ml	
DATA	0xxxxxxx	xh	block count (High)
	0xxxxxxx	xl	block count (Low)
	0yyyyyyy	yh	total size (High)
	0yyyyyyy	yl	total size (Low)
	0000iiii		Developer id (High)
	0000iiii		Developer id (Low)
	0000jjjj		Product id (High)
	0000jjjj		Product id (Low)
	0ddddddd	ds	Plug-in Effect card memory data
	:	:	(1024/7)*8+(1024%7)+1=1171bytes
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.36 Plug-in effect card bulk dump request format

The second byte of the DATA NAME indicates the library number.
0:SLOT 1 - 5:SLOT 6

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	' '
	00100000	20	' '
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01000001	41	'A'
	0mmmmmmm	mm	0-5 (SLOT1-6)
	0mmmmmmm	ml	
EOX	11110111	F7	End of exclusive

12.3 PARAMETER CHANGE

12.3.1 Parameter change basic format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

For parameters with a data size of 2 or more, data for that size will be transmitted.

12.3.2 Parameter Change basic format (Universal format)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

For parameters with a data size of 2 or more, data for that size will be transmitted.

12.3.3 Parameter request basic format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.4 Parameter request basic format (Universal format)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.5 Parameter Address

Consult your dealer for parameter address details.

12.3.6 Parameter change (Edit buffer)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the specified parameter will be controlled.

Transmission

If [Parameter change TX] is ON and a parameter not specified in the [Control assign table] is modified, this message will be transmitted with the device number specified by the [Tx CH].

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.7 Parameter request (Edit buffer)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0,'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.8 Parameter change (Patch data)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the specified parameter will be controlled.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.9 Parameter request (Patch data)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message

ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.10 Parameter change (Setup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be controlled.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000011	03	Setup memory
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.11 Parameter request (Setup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000011	03	Setup memory
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.12 Parameter change (Backup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be controlled.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000100	04	Backup memory
	0aaaaaaa	ee	Element No.
	0aaaaaaa	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.13 Parameter request (Backup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000100	04	Backup memory
	0aaaaaaa	ee	Element No.
	0aaaaaaa	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.14 Parameter change (Function call Library: store/recall)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the specified memory/library will be stored/recalled.

Transmission

If [Parameter change ECHO] is ON, this message will be retransmitted without change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Address UU
	00ffffff	ff	Address UL (function)
	0aaaaaaa	aa	Address LU (number H)
	0aaaaaaa	aa	Address LL (number L)
DATA	0ddddddd	dd	channel High
	0ddddddd	dd	channel Low
EOX	11110111	F7	End of exclusive

function		number	channel*1)	tx/rx
SCENE RECALL	0x00	0-99	256	tx*2)/rx
EQ LIB RECALL	0x01	1-200	0-513	tx/rx
GATE LIB RECALL	0x02	1-128	0-95	tx/rx
COMP LIB RECALL	0x03	1-128	0-513	tx/rx
EFF LIB RECALL	0x04	1-128	0-7	tx/rx
GEQ LIB RECALL	0x05	0-128	0-5	tx/rx
CHANNEL LIB RECALL	0x06	0-128	0-513	tx/rx
INPATCH LIB RECALL	0x07	0-32	256	tx/rx
OUTPATCH LIB RECALL	0x08	0-32	256	tx/rx
Bus to Stereo LIB RECALL	0x09	0-32	256	tx/rx
Surround Monitor LIB RECALL	0x0A	0-32	256	tx/rx
AUTOMIX LIB RECALL	0x0B	1-16	256	tx/rx
SCENE STORE	0x20	1-99	256, 16383	tx/rx
EQ LIB STORE	0x21	41-200	0-513, 16383	tx/rx
GATE LIB STORE	0x22	5-128	0-96, 16383	tx/rx
COMP LIB STORE	0x23	37-128	0-513, 16383	tx/rx
EFF LIB STORE	0x24	53-128	0-7, 16383	tx/rx
GEQ LIB STORE	0x25	1-128	0-5, 16383	tx/rx
CHANNEL LIB STORE	0x26	3-128	0-513, 16383	tx/rx
INPATCH LIB STORE	0x27	1-32	256, 16383	tx/rx
OUTPATCH LIB STORE	0x28	1-32	256, 16383	tx/rx
Bus to Stereo LIB STORE	0x29	1-32	256, 16383	tx/rx
Surround Monitor LIB STORE	0x2A	1-32	256, 16383	tx/rx
AUTOMIX LIB STORE	0x2B	1-32	256, 16383	tx/rx

*1) 0:CH1 - 95:CH96, 128:BUS1 - 135:BUS8, 256:AUX1 - 267:AUX12, 384:MATRIX1L - 391:MATRIX4R, 512:STEREO L - 513:STEREO R
Use 256 if the recall destination or store source is a single

data item.
Effect is 0:Effect 1–7:Effect 8, GEQ is 0:GEQ1–5:GEQ6
If the store destination is 16383 (0x3FFF), this indicates that the library data has been changed by a external cause (i.e., loading from SmartMedia)
(only transmitted by the DM2000)

*2) This is also transmitted when a program that has not been assigned to the [Program change table] is recalled. (Normally this would be transmitted as a program change message.)

12.3.15 Parameter change (Function call: title)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the title of the specified memory/library will be changed

Transmission

In response to a request, a Parameter Change message will be transmitted on the [Rx CH].
If [Parameter change ECHO] is ON, this message will be retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 7F	Universal
ADDRESS	00010000 10	Function call Library
	0100aaaa 4a	Address UL (function)
	0nnnnnnn nn	Address LU (number H)
	0nnnnnnn nn	Address LL (number L)
DATA	0ddddddd dd	title 1
	: :	
	0ddddddd dd	title x(depend on the library)
EOX	11110111 F7	End of exclusive

function		number	size
SCENE LIB TITLE	0x40	0-99, 256(0:response only)	16
EQ LIB TITLE	0x41	1-200(1-40:response only)	16
GATE LIB TITLE	0x42	1-128(1-4:response only)	16
COMP LIB TITLE	0x43	1-128(1-36:response only)	16
EFF LIB TITLE	0x44	1-128(1-52:response only)	16
GEQ LIB TITLE	0x45	0-128(0:response only)	16
CHANNEL LIB TITLE	0x46	0-128(0-1:response only)	16
INPATCH LIB TITLE	0x47	0-32(0:response only)	16
OUTPATCH LIB TITLE	0x48	0-32(0:response only)	16
Bus to Stereo LIB TITLE	0x49	0-32(0:response only)	16
Surround Monitor LIB TITLE	0x4A	0-32(0:response only)	16
AUTOMIX LIB TITLE	0x4B	1-16	16

12.3.16 Parameter request (Function call: title)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, a Parameter Change message will be transmitted on the [Rx CH].
Refer to the above table for the Functions and Numbers.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn 3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 7F	Universal
ADDRESS	00010000 10	Function call Library
	0100aaaa 4a	Address UL (function)
	0nnnnnnn nn	Address LU (number H)
	0nnnnnnn nn	Address LL (number L)
EOX	11110111 F7	End of exclusive

12.3.17 Parameter change (Function call: Scene/Library Clear)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the specified memory/library will be stored/recalled.

Transmission

If [Parameter change ECHO] is ON, this message will be retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 7F	Universal
ADDRESS	00010000 10	Function call Library
	0110aaaa 6a	Address UL (function)
	0nnnnnnn nn	Address LU (number H)
	0nnnnnnn nn	Address LL (number L)
EOX	11110111 F7	End of exclusive

function		number
SCENE LIB CLEAR	0x60	1-99
EQ LIB CLEAR	0x61	41-200
GATE LIB CLEAR	0x62	5-128
COMP LIB CLEAR	0x63	37-128
EFF LIB CLEAR	0x64	1-128
GEQ LIB CLEAR	0x65	0-128
CHANNEL LIB CLEAR	0x66	2-128
INPATCH LIB CLEAR	0x67	0-32
OUTPATCH LIB CLEAR	0x68	0-32
Bus to Stereo LIB CLEAR	0x69	0-32
Surround Monitor LIB CLEAR	0x6A	0-32
AUTOMIX LIB CLEAR	0x6B	1-16

12.3.18 Parameter change (Function call: pair, copy)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS. This is echoed if [Parameter change ECHO] is ON.
When this is received, pairing will be enabled/disabled for the specified channel. (Items other than PAIR are reserved for future use.)

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 7F	Universal
ADDRESS	00010001 11	Function call Pair
	0000aaaa 0a	Function
DATA	0ddddddd dd	Source channel number H
	0ddddddd dd	Source channel number L
	0ddddddd dd	Destination channel number H
	0ddddddd dd	Destination channel number L
EOX	11110111 F7	End of exclusive

function		Channel
PAIR ON with COPY	0x00	*1)
PAIR ON with RESET BOTH	0x01	*1)
PAIR OFF	0x02	*1)

*1)0:CH1 - 95:CH96, 128:BUS1 - 135:BUS8, 256:AUX1 - 267:AUX12, 384:MATRIX1L - 391:MATRIX4R, 512:STEREO L - 513:STEREO R
Effect is 0:Effect 1–7:Effect 8, GEQ is 0:GEQ1–5:GEQ6
In the case of PAIR, you must specify channels for which pairing is possible.
In the case of PAIR ON with COPY, you must specify Source Channel as the copy source, and Destination Channel as the copy destination.

12.3.19 Parameter change (Function call Event: Effect)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.

When this is received, the corresponding effect's function activates (depending on the effect type).

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 7F	Universal
ADDRESS	00010010 12	Function call Event
	0000aaaa 0a	Function
DATA	00000000 00	-
	0ddddddd dd	Release:0, Press:1
	00000000 00	-
	0ddddddd dd	Destination Effect Number 0 - 7
EOX	11110111 F7	End of exclusive

function		Channel
Freeze Play button	0x00	0:Effect1-7:Effect8
Freeze Record button	0x01	0:Effect1-7:Effect8
Auto Pan 5.1 Trigger Button	0x02	0:Effect1-1:Effect2
Auto Pan 5.1 Reset Button	0x03	0:Effect1-1:Effect2

• This does not activate when the effect type is different.

12.3.20 Parameter change (Key remote)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the same processing that is executed when the key specified by Address is pressed (released). (Refer to the PARAMETER CHANGE PARAMETER NUMBER LIST.)

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 06	DM2000
ADDRESS	00100000 20	Address UU
	0aaaaaaa aa	Address UL
	0aaaaaaa aa	Address LU
	0aaaaaaa aa	Address LL
DATA	0ddddddd dd	0:press, 1:release
EOX	11110111 F7	End of exclusive

12.3.21 Parameter change (Remote Meter)

When transmission is enabled by receiving a Request of Remote meter, the specified meter information is transmitted every 50 msec for 10 seconds. When you want to transmit meter information continuously, a Request must be transmitted continuously within every 10 seconds.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When transmission has been enabled by a Request, the parameter specified by Address (see PARAMETER CHANGE PARAMETER NUMBER LIST) will be transmitted on the [Rx CH] channel at 50 msec intervals for a duration of 10 seconds.
Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.
If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 06	DM2000
ADDRESS	00100001 21	Address UU
	0aaaaaaa aa	Address UL
	0aaaaaaa aa	Address LU
	0aaaaaaa aa	Address LL
DATA	0ddddddd dd	Data1 H
	0ddddddd dd	Data1 L
	:	
EOX	11110111 F7	End of exclusive

Meter data uses the unmodified DECAY value of the DSP. For the interpretation of the value, refer to the PARAMETER CHANGE PARAMETER NUMBER LIST.

12.3.22 Parameter request (Remote Meter)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the parameter specified by Address (refer to PARAMETER CHANGE PARAMETER NUMBER LIST) will be transmitted on the [Rx CH] at 50 msec intervals for a duration of 10 seconds.
If Address UL= 0x7F is received, transmission of all meter data will be halted immediately. (disable)

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn 3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 06	DM2000
ADDRESS	00100001 21	Address UU
	0aaaaaaa aa	Address UL
	0aaaaaaa aa	Address LU
	0aaaaaaa aa	Address LL
DATA	0ccccccccc	Count H
	0ccccccccc	Count L
EOX	11110111 F7	End of exclusive

12.3.23 Parameter change (Remote Time Counter)

When transmission is enabled by receiving a Request of Remote Time Counter, the Time Counter data is transmitted every 50 msec for 10 seconds. When you want to transmit Counter information continuously, a Request must be transmitted within every 10 seconds.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When transmission is enabled by receiving a Request, the Time Counter information is transmitted on [RxCH] channel every 50 msec for 10 seconds.
Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.
If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000 F0	System exclusive message
ID No.	01000011 43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn 1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110 3E	MODEL ID (digital mixer)
MODEL ID	00000110 06	DM2000
ADDRESS	00100001 22	Remote Time Counter
	0000tttt 0t	0:Time Code, 1: Measure, Beat, Clock
DATA	0ddddddd dd	Hour / Measure H
	0ddddddd dd	Min / Measure L
	0ddddddd dd	Sec / Beat
	0ddddddd dd	Frame / Clock
EOX	11110111 F7	End of exclusive

12.3.24 Parameter request (Remote Time Counter)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When this is received, the Time Counter information is transmitted on the [Rx CH] channel every 50 msec for 10 seconds.
When the second byte of Address is received on 0x7F, data transmission will be halted immediately.

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without

change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100001	22	Remote Time Counter
	0aaaaaaa	aa	0:Transmission request, 0x7F:Transmission stop request
EOX	11110111	F7	End of exclusive

12.3.25 Parameter change (Automix Status)

When transmission is enabled by receiving a Request of Automix status, the Automix Status data is transmitted every second for 10 seconds. When you want to transmit the Automix Status information continuously, the Request must be transmitted continuously minimum within 10 seconds interval. The data is transmitted continuously while the transmission is enabled, even when the Automix Status on the DM2000 has been changed.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When the transmission is set to enable by receiving a Request. The Automix Status data is transmitted on the [Rx CH] channel every second for 10 seconds. The data is transmitted continuously while the transmission is enabled, even when the Automix Status on the DM2000 has been changed. Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.
If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100011	23	Automix Status
	00000000	00	
DATA	0000dddd	0d	Automix Status H
	0000dddd	0d	Automix Status L
EOX	11110111	F7	End of exclusive

12.3.26 Parameter request (Automix Status)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.
This is echoed if [Parameter change ECHO] is ON.
When the data is received, the Automix Status data is transmitted on the [Rx CH] every second for 10 seconds.
When the second byte of Address is received on 0x7F, data transmission will be halted immediately (disable).

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00100011	23	Automix Status
	0aaaaaaa	aa	0:Transmission request, 0x7F:Transmission stop request
EOX	11110111	F7	End of exclusive

Model: DM2000

MIDI Implementation Chart

Version: 1.0

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1—16 1—16	1—16 1—16	Memorized
Mode	Default Messages Altered	X X **********	OMNI off/OMNI on X X	Memorized
Note Number	:True Voice	X **********	0—127 X	
Velocity	Note On Note Off	X X	O O	Effect Control
After Touch	Key s Ch s	X X	X X	
Pitch Bend		X	X	
Control Change	0-95,102-119	O	O	Assignable
Prog Change	:True#	0—127 **********	0—127 0—99	Assignable
System Exclusive		O	O	*1
System Common	:Song Pos :Song Sel :Tune	X X X	O X X	Automix
System Real Time	:Clock :Commands	X X	O O	Automix, Effect Control
Aux Messages	:Local ON/OFF :All Notes OFF :Active Sense :Reset	X X X X	X X O O	
Notes		MTC quarter frame message is recognized.(MTC IN & MIDI IN) *1: Bulk Dump/Request, Parameter Change/Request, and MMC. For MIDI Remote, ALL messages can be transmitted.		

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO O: Yes
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO X: No

DIGITAL PRODUCTION CONSOLE

DM2000

PARTS LIST

CONTENTS

OVERALL ASSEMBLY 2
BOTTOM ASSEMBLY 5
REAR ASSEMBLY U 12
CONTROL PANEL ASSEMBLY 15
LCD ASSEMBLY 22
ELECTRICAL PARTS 25

Notes : DESTINATION ABBREVIATIONS

A : Australian model	M : South African model
B : British model	O : Chinese model
C : Canadian model	Q : South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

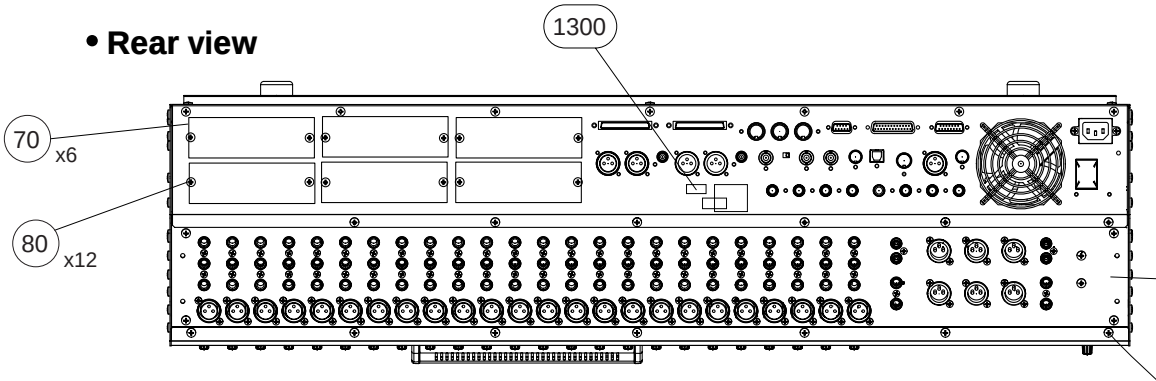
WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

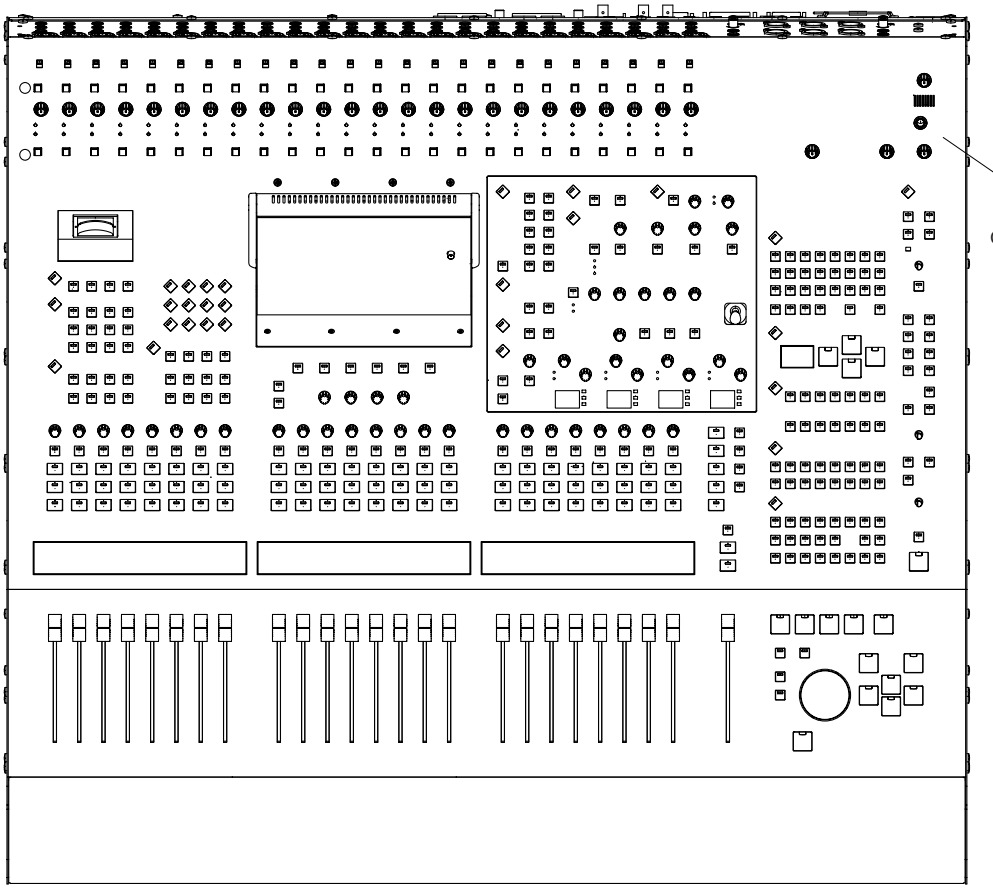
- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

OVERALL ASSEMBLY

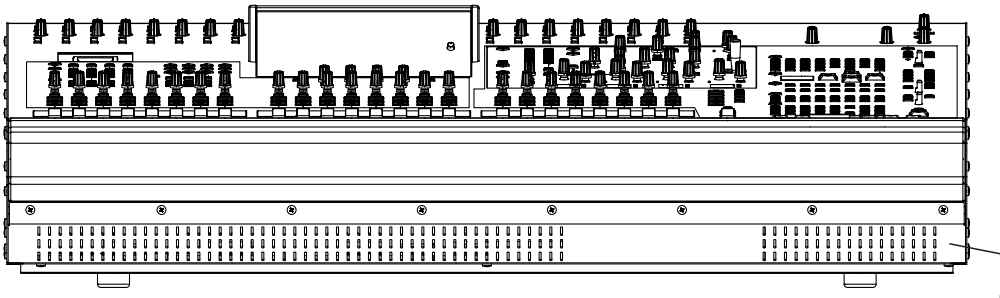
• Rear view



• Top view

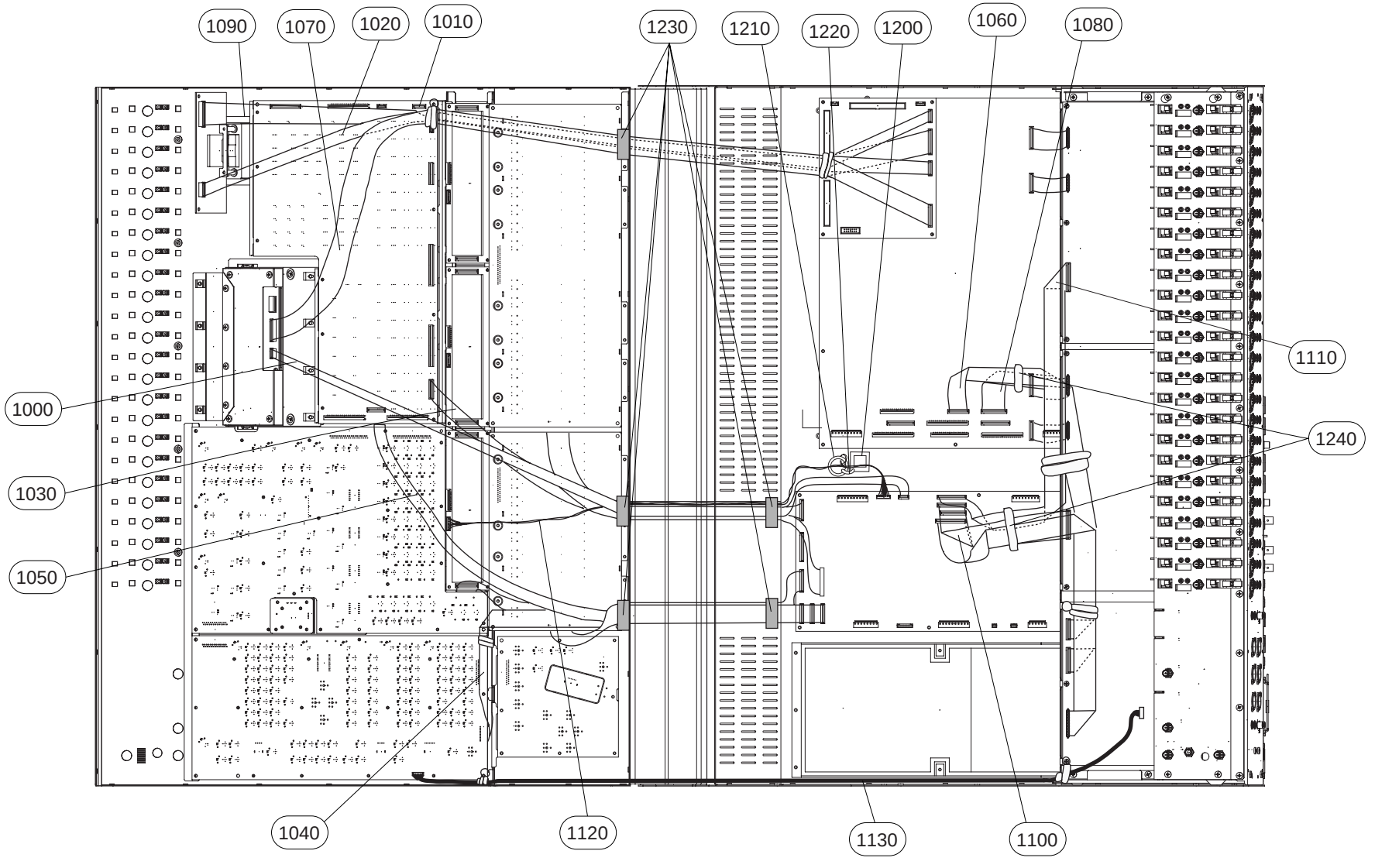


• Front view



• **Bottom view**

• **Top view**



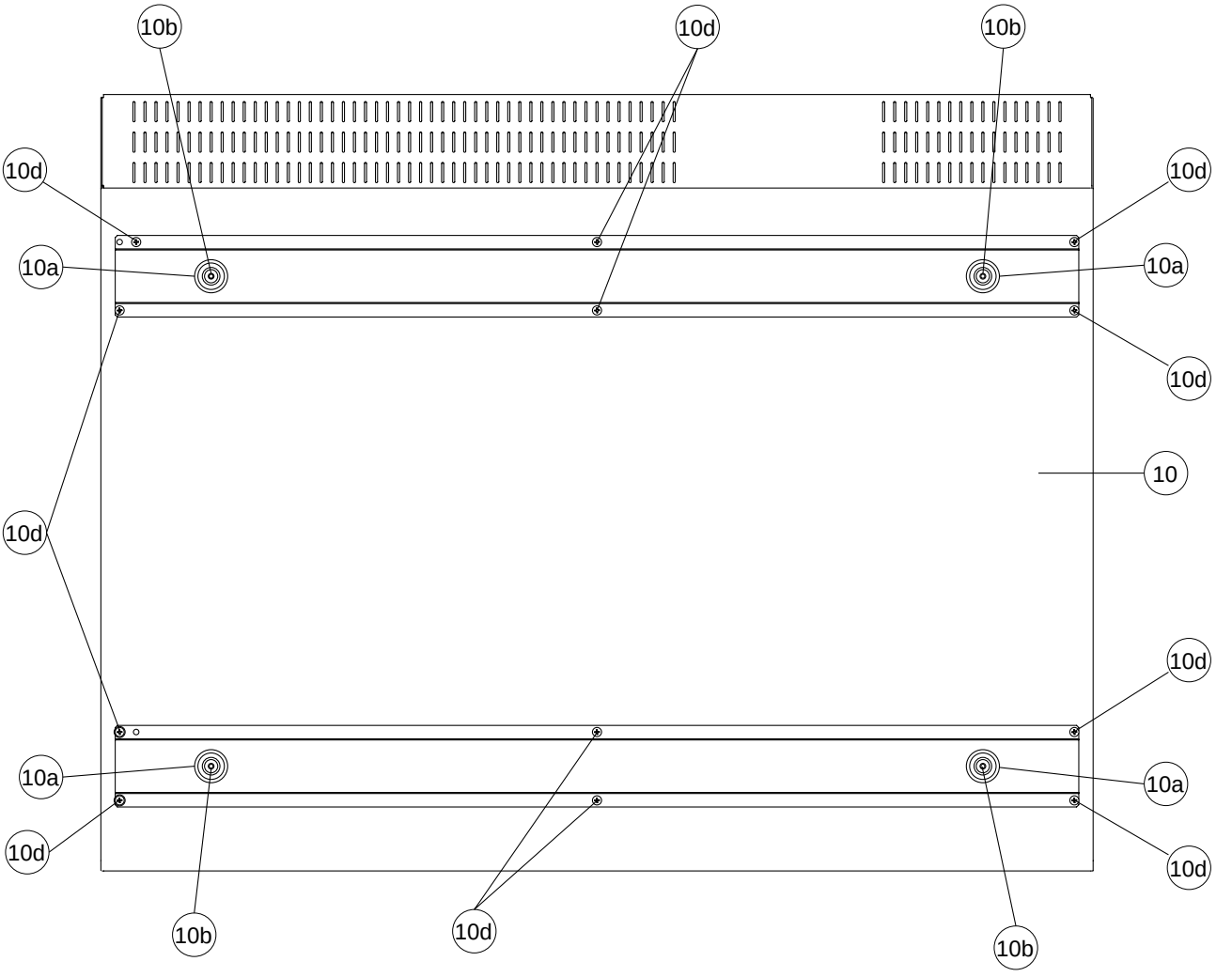
	REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
			OVERALL ASSEMBLY			DM2000			
		--	Overall Assembly			J	(V642660)		
		--	Overall Assembly			U,V	(V642680)		
		--	Overall Assembly			H,B,W	(V642690)		
⚠		**VN103500**	Lithium Battery	CR2032					03
	10	--	Bottom Assembly			J	(V642840)		
	10	--	Bottom Assembly			U,V	(V642850)		
	10	--	Bottom Assembly			H,B,W	(V642860)		
	30	--	Rear Assembly U	UPPER			(V642810)		
	50	--	Control Panel Assembly				(V642710)		
	60	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL				46	01
	70	**VZ678500**	IF Plate					6	05
	80	**VP156900**	Bind Head Screw	A4.0X12 MFZN2BL				12	01
*	1000	**V8391500**	Jumper Wire	FVP=2.0C26SB4-950					
*	1010	**V8391600**	Jumper Wire	FVP=2.0C26SB6-780					
*	1020	**V8391700**	Jumper Wire	FVP=2.0C26SB7-1m					
*	1030	**V9364900**	Jumper Wire	FVP=2.0C26SB11-600					
*	1040	**V8392000**	Jumper Wire	FVP=2.0C26SB10-700					
*	1050	**VU073400**	Jumper Wire	FVP=2.0C26SB10-800					
*	1060	**V8970500**	Jumper Wire	FVP=2.0C26SB11-550					
*	1070	**V8970800**	Jumper Wire	FVP=2.0C26SB12-1m					
*	1080	**V8970600**	Jumper Wire	FVP=2.0C26SB14-550					
*	1090	**V8392400**	Jumper Wire	FVP=2.0C26SB14-1m					
*	1100	**V8392500**	Jumper Wire	FVP=2.0C26SB16-240					
*	1110	**V8970700**	Jumper Wire	FVP=2.0C26SB16-550					
*	1120	**V8413700**	Connector Assembly	BRG-FL 8P 800L					
*	1130	**VT960800**	Connector Assembly	CR PH-6P					
	1200	**CB835590**	Holder	TMS-20					01
	1210	**VC362700**	Ferrite Core	FR25/15/12-1400L					04
	1220	**CB069250**	Cord Holder	BK-1					01
	1230	--	Cable Clamp	FCN-3010			(V908970)	5	
	1240	**CB069250**	Cord Holder	BK-1				2	01
	1300	**VA039300**	Label			U,V			03
			ACCESSORIES						
		VQ240200	Adapter, AC Cord	KPR-24		J			06
*		**X2381A00**	CD-ROM	CD-R 650MB 12cm					
⚠		**V5800000**	AC Cord	J 3P 15A		J			09
⚠		**V5068000**	AC Cord	U/C 3P 13A		U,V			09
⚠		**V5067700**	AC Cord	CE 3P 10A		H,W			08
⚠		**V6190800**	AC Cord	BS		B			10
			TOOLS						
*		**AAX33140**	Front Stay Set						
*		**AAX33150**	Rear Stay Set						

*: New Parts

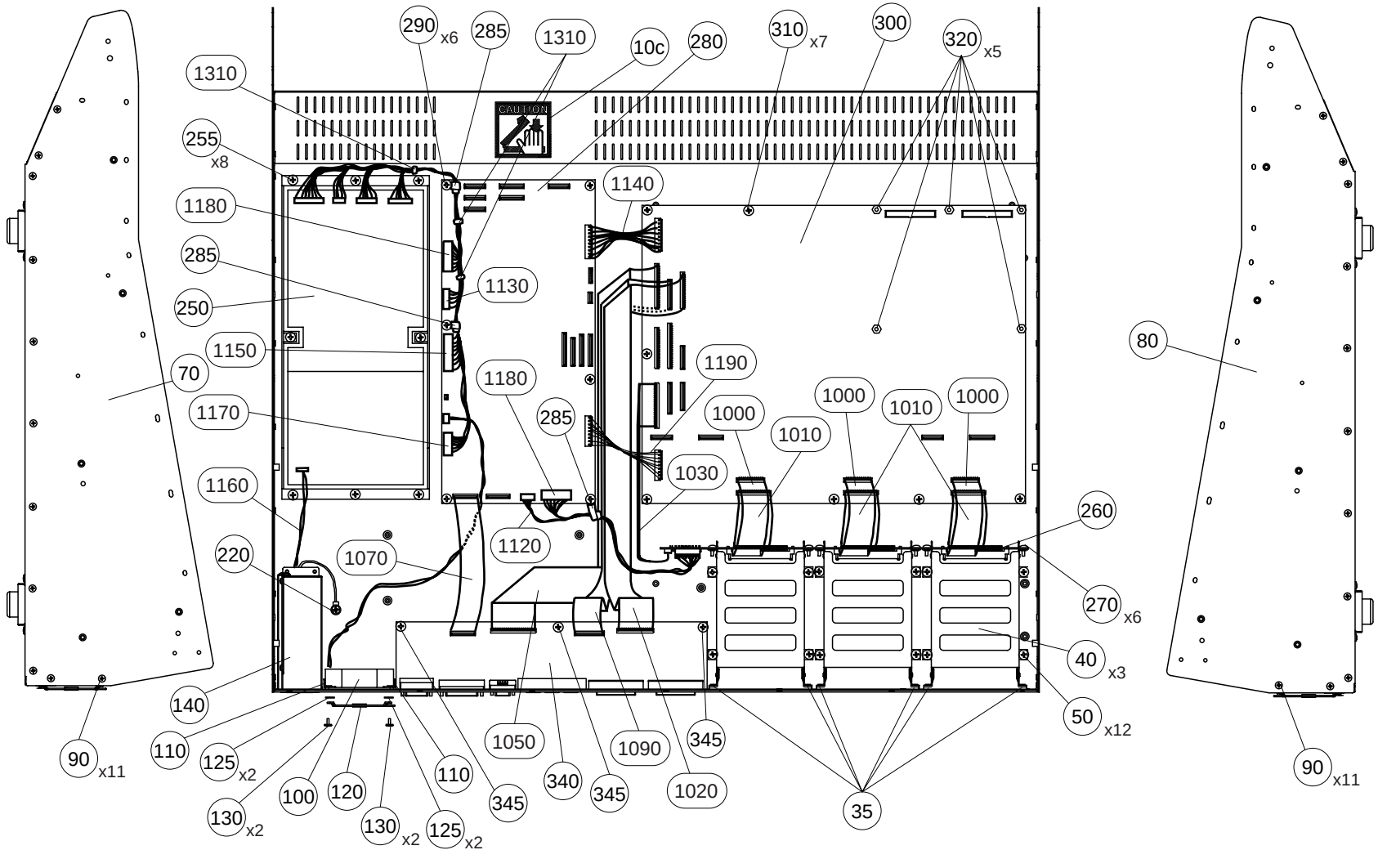
RANK: Japan only

BOTTOM ASSEMBLY

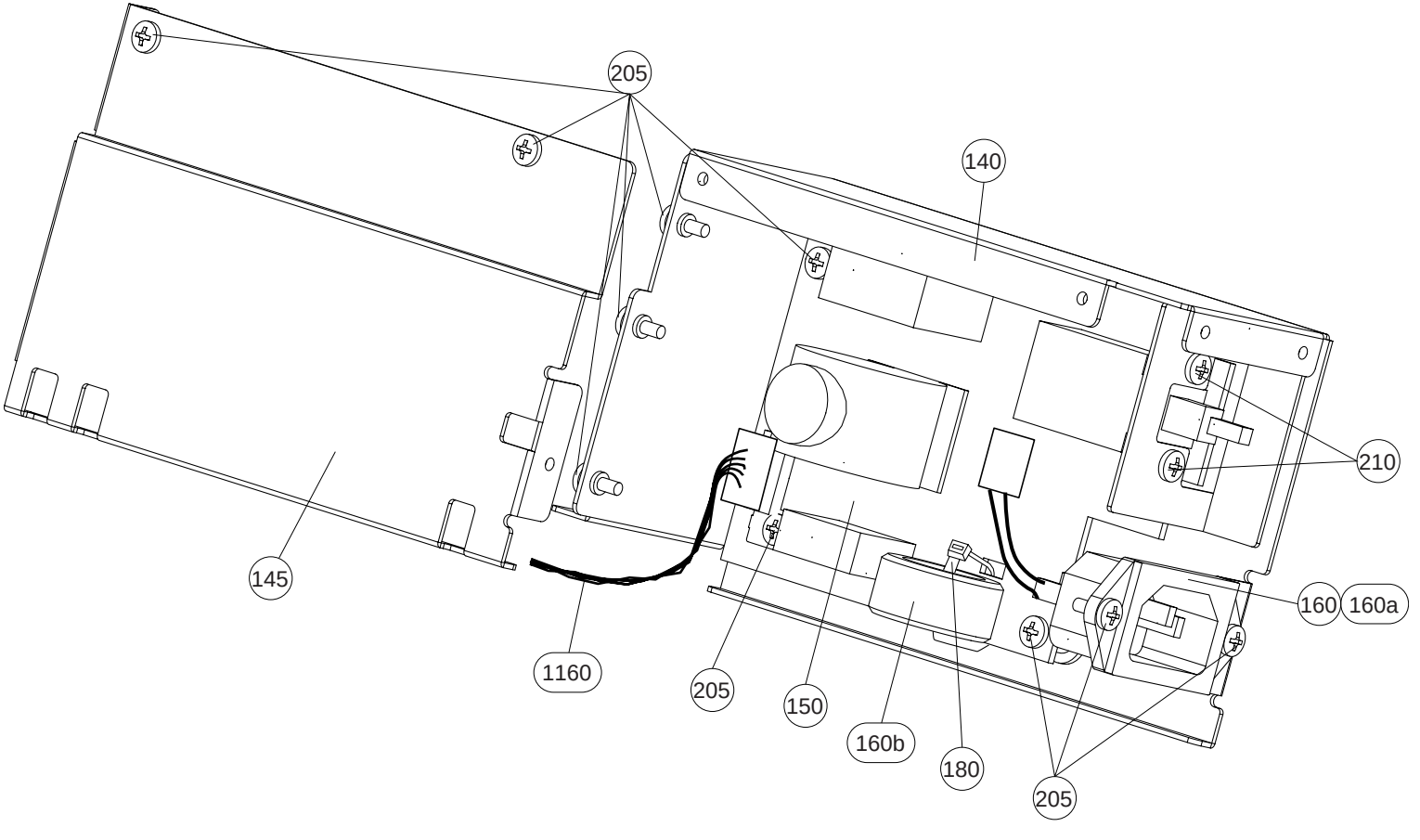
- **Bottom view**



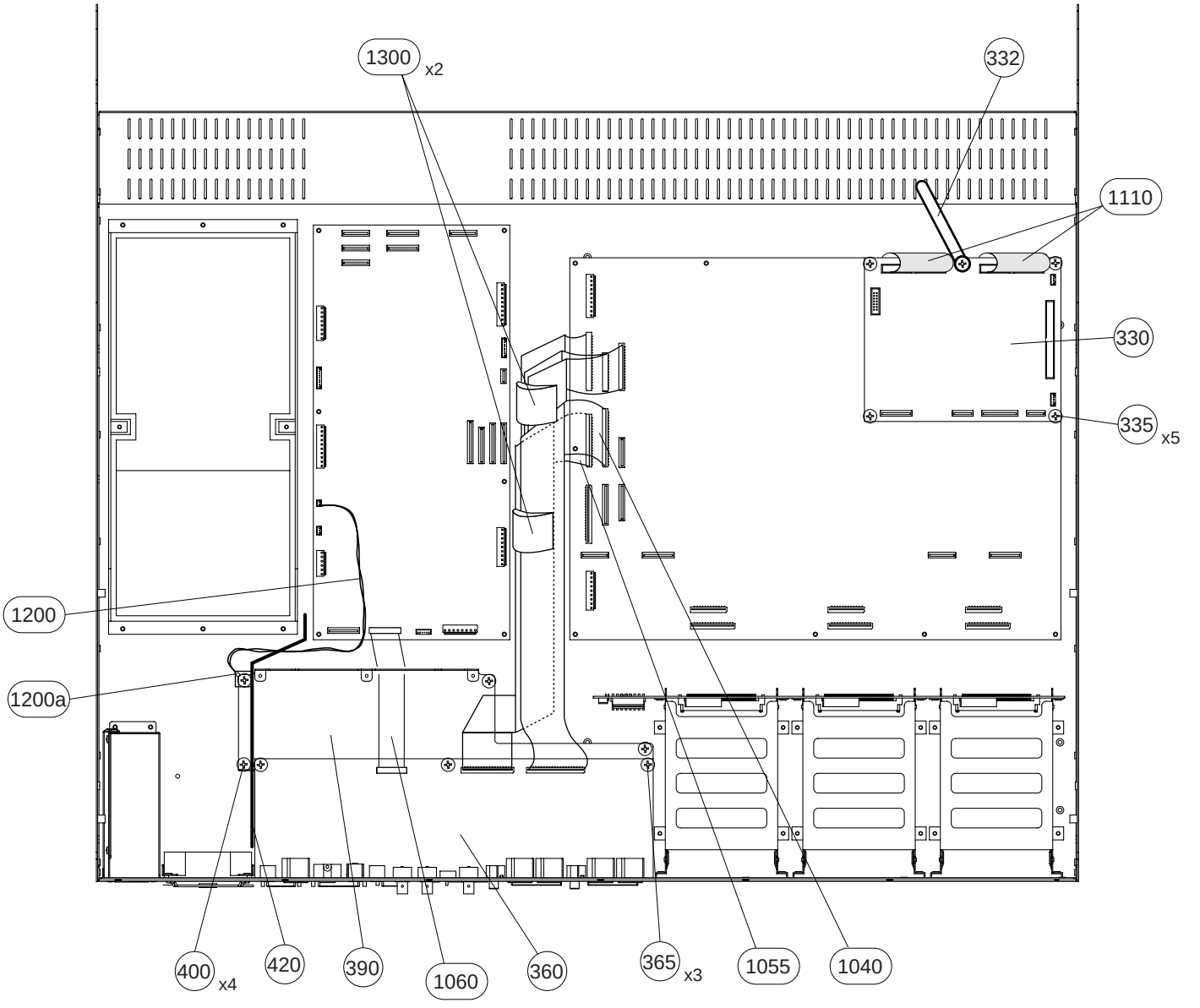
• **Left side view** • **Top view** • **Right side view**



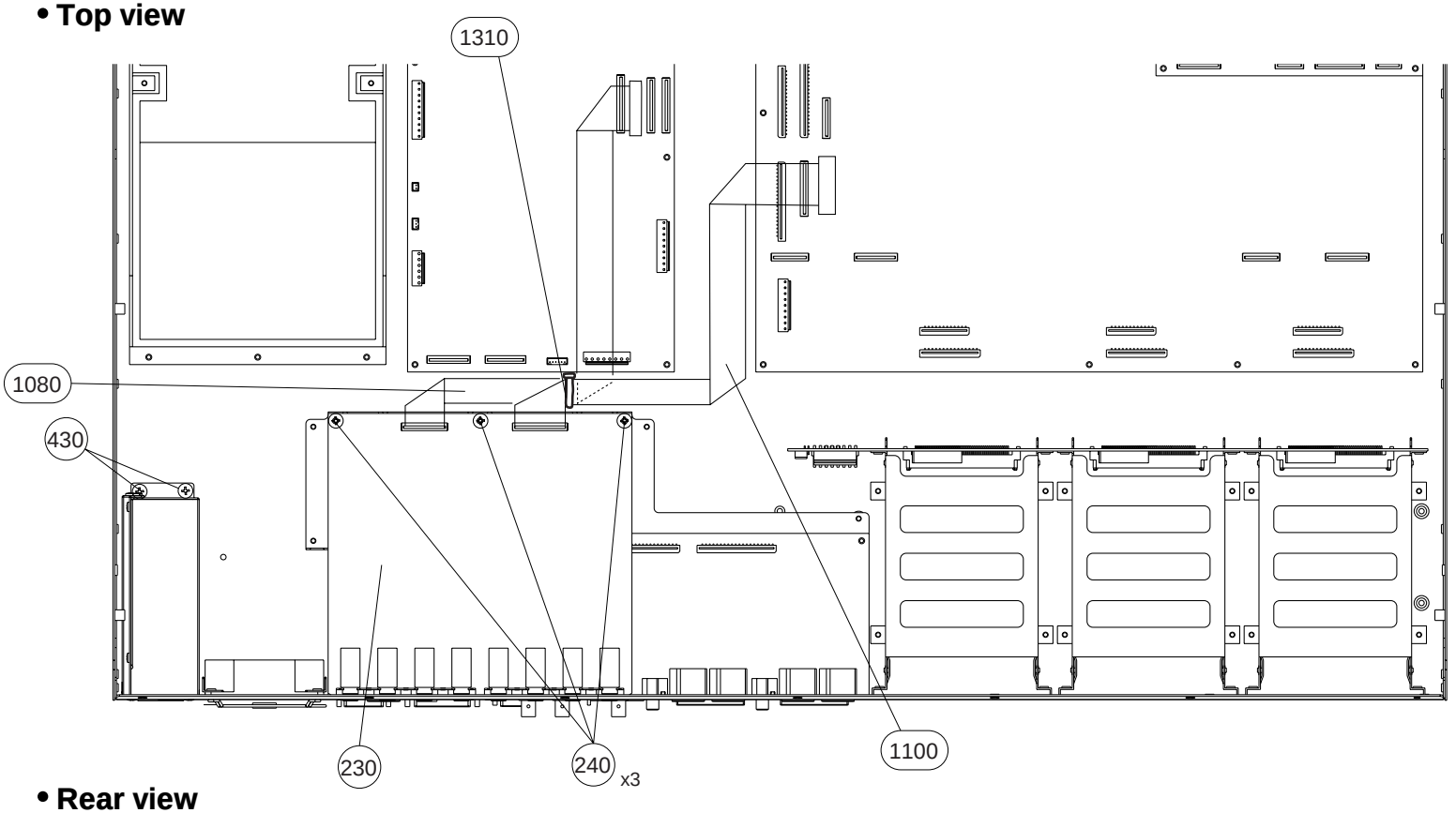
• **Top view**



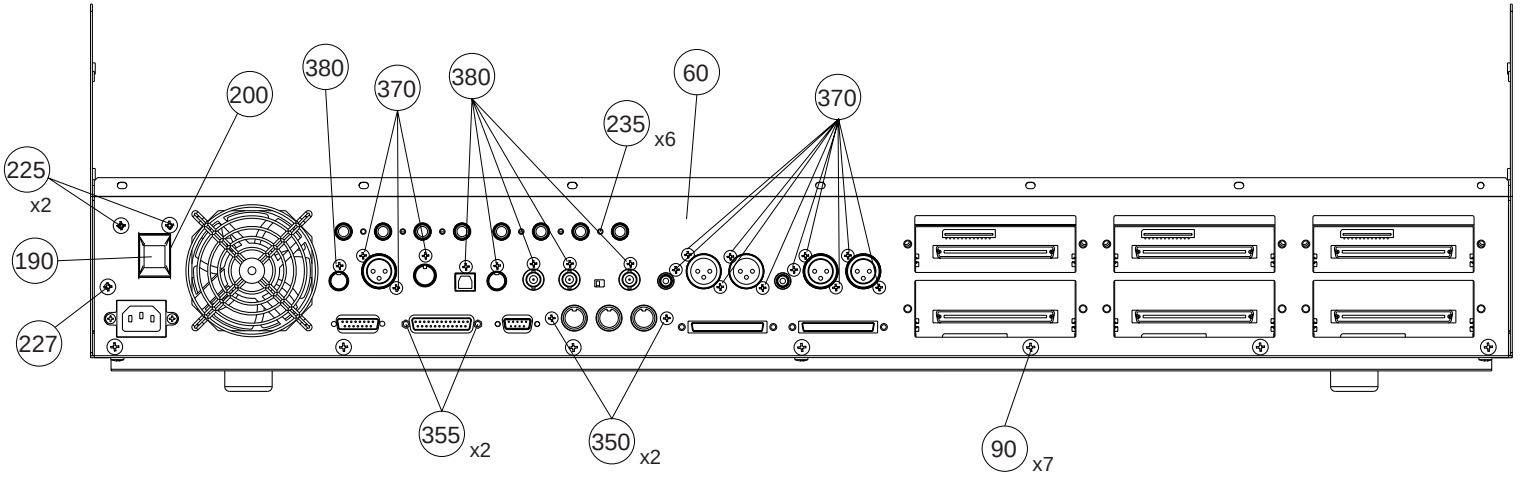
• Top view


1300 x2
332
1110
330
335 x5
1200
1200a
400 x4
420
390
1060
360
365 x3
1055
1040

• **Top view**



• **Rear view**



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			BOTTOM ASSEMBLY			DM2000		
		--	Bottom Assembly			J (V642840)		
		--	Bottom Assembly			U,V (V642850)		
		--	Bottom Assembly			H,B,W (V642860)		
*	10	V6365300	Bottom Chassis					
*	10a	V8991500	Leg				4	
	10b	VR138400	Bind Head Tapping Screw-B	4.0X12 MFZN2BL			4	01
	10c	--	Caution Label			(VV85650)		
	10d	EG340190	Bind Head Tapping Screw-B	4.0X8 MFZN2BL			12	01
	35	--	Gasket			(V913040)	6	
*	40	V8806500	OPT Angle				3	
	50	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			12	01
*	60	V8402800	Rear Panel L	LOWER		J		
*	60	V8422300	Rear Panel L	LOWER		U,V		
*	60	V8422400	Rear Panel L	LOWER		H,B,W		
*	70	V8403000	Side Panel L	LEFT				
*	80	V8403100	Side Panel R	RIGHT				
	90	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			29	01
*	100	V8628200	Motor	DC KDE1208PTS3-6		Fan		
	110	V6444900	Fan Guide				2	02
	120	V8968200	Fan Guard	FG-08UL-BK				
	125	ET800070	Toothed Lock Washer	A 4.0 MFZN2BL			4	
	130	VB671600	Pan Head Screw	SP 4.0X20 MFZN2BL			4	01
*	140	V6511400	Shield Box					
*	145	V8415900	Cover, Shield Box					
*	150	V6543900	Circuit Board	DM2K SW				
*	160	V8190200	AC Inlet Assembly	AC INLET&VH3P				
⚠	160a	V5065200	AC Inlet	M1908-C		AC IN		03
	160b	VC362700	Ferrite Core	FR25/15/12-1400L				04
	180	CB069250	Cord Holder	BK-1				01
	190	VL812900	Power Switch Knob			POWER ON/OFF		03
	200	VL813000	Escutcheon, Power Switch					03
	205	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			10	01
	210	VB659000	Bind Head Screw	3.0X8 MFZN2BL			2	01
	220	VI693100	Bind Head Tapping Screw-S	4.0X8 MFZN2BL				01
	225	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL			2	01
	227	VI693100	Bind Head Tapping Screw-S	4.0X8 MFZN2BL				01
*	230	V6285500	Circuit Board	DM2K DA1				
	235	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL			6	01
	240	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			3	01
⚠ *	250	V6526100	Power Supply Unit	XR-642 J,UL,CSA,S				
	255	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			8	01
*	260	V6285800	Circuit Board	DM2K OPT				
*	270	VZ538000	Bind Head Screw	4.0X8 SP MFZN2Y			6	01
*	280	V6287300	Circuit Board	DM2K BRG				
	285	CB817510	Cord Binder	S-14B			3	03
	290	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			6	01
*	300	V6285200	Circuit Board	DM2K DSP				
	310	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			7	01
*	320	V8628400	Spacer	M3.0 L=35			5	
*	330	V7765500	Circuit Board	DM2K CPU				
	332	VJ770600	Cord Binder	S-126				01
	335	VB659000	Bind Head Screw	3.0X8 MFZN2BL			5	01
*	340	V6286200	Circuit Board	DM2K JK2				
	345	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			3	01
	350	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL			2	01
	355	VS604900	Hex. Locking Screw	JFS-2.6S-BIW			2	01
*	360	V6285900	Circuit Board	DM2K JK1				
	365	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			3	01
	370	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL			13	01
	380	VP157800	Bonding Screw	3.0X8 MFZN2BL			6	01
*	390	V6430300	Holder, P.C.B.					
	400	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			4	01
*	420	V8676000	Duct					
	430	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			2	01
*	1000	MF124160	Connector Assembly	24P 160mm P=1.25			3	
	1010	MF130120	Connector Assembly	30P 120mm P=1.25			3	02
*	1020	MF132600	Connector Assembly	32P 600mm P=1.25				
*	1030	MF140250	Connector Assembly	40P 250mm P=1.25				
*	1040	MF140400	Connector Assembly	40P 400mm P=1.25				

*: New Parts

RANK: Japan only

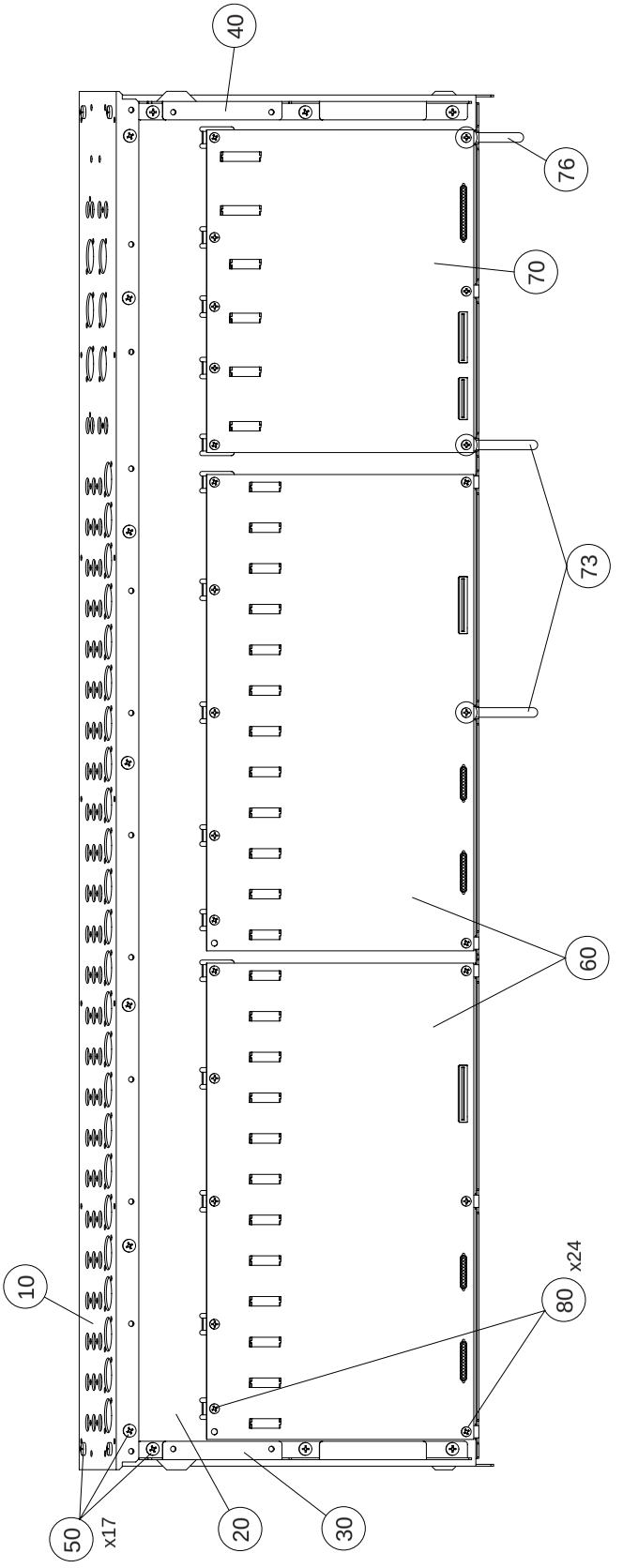
	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	1050	**MF140600**	Connector Assembly	40P 600mm P=1.25				
*	1055	**MF136450**	Connector Assembly	36P 450mm P=1.25				
*	1060	**V8392100**	Jumper Wire	FVP=2.0C26SB11-220				
*	1070	**V5843300**	Jumper Wire	FVP=2.0C26SB12-200				
*	1080	**V8392300**	Jumper Wire	FVP=2.0C26SB14-400				
*	1090	**V2016000**	Jumper Wire	FVP=2.0C26SB15-550				
*	1100	**V8392600**	Jumper Wire	FVP=2.0C26SB16-400				
*	1110	**V8268300**	Flat Cable Assembly	HIF6H-80D-AA-10JJ			2	
*	1120	**V8413600**	Connector Assembly	BRG-OPT PH-6P				
*	1130	**V8413800**	Connector Assembly	BRG-DC PH-9P				
*	1140	**V8413900**	Connector Assembly	BRG-DSP VH-10P				
*	1150	**V8414000**	Connector Assembly	BRG-DC1 VH-10P				
*	1160	**V8414400**	Connector Assembly	SW-DC VH-4P/3P				
*	1170	**V8414100**	Connector Assembly	BRG-DC2 VH-6P				
*	1180	**V8414200**	Connector Assembly	BRG-OPT1 VH-8P			2	
*	1190	**V8414300**	Connector Assembly	BRG-DSP1 VH-9P				
*	1200	**V8417000**	Connector Assembly	POS&PH PH-2P				
	1200a	**VL964800**	Positive Thermistor	PTH9M04BH222TS2				04
	1300	**--**	Cable Clip	MFC-1000		(V910650)	2	
	1310	**CB069250**	Cord Holder	BK-1			4	01

✻: New Parts

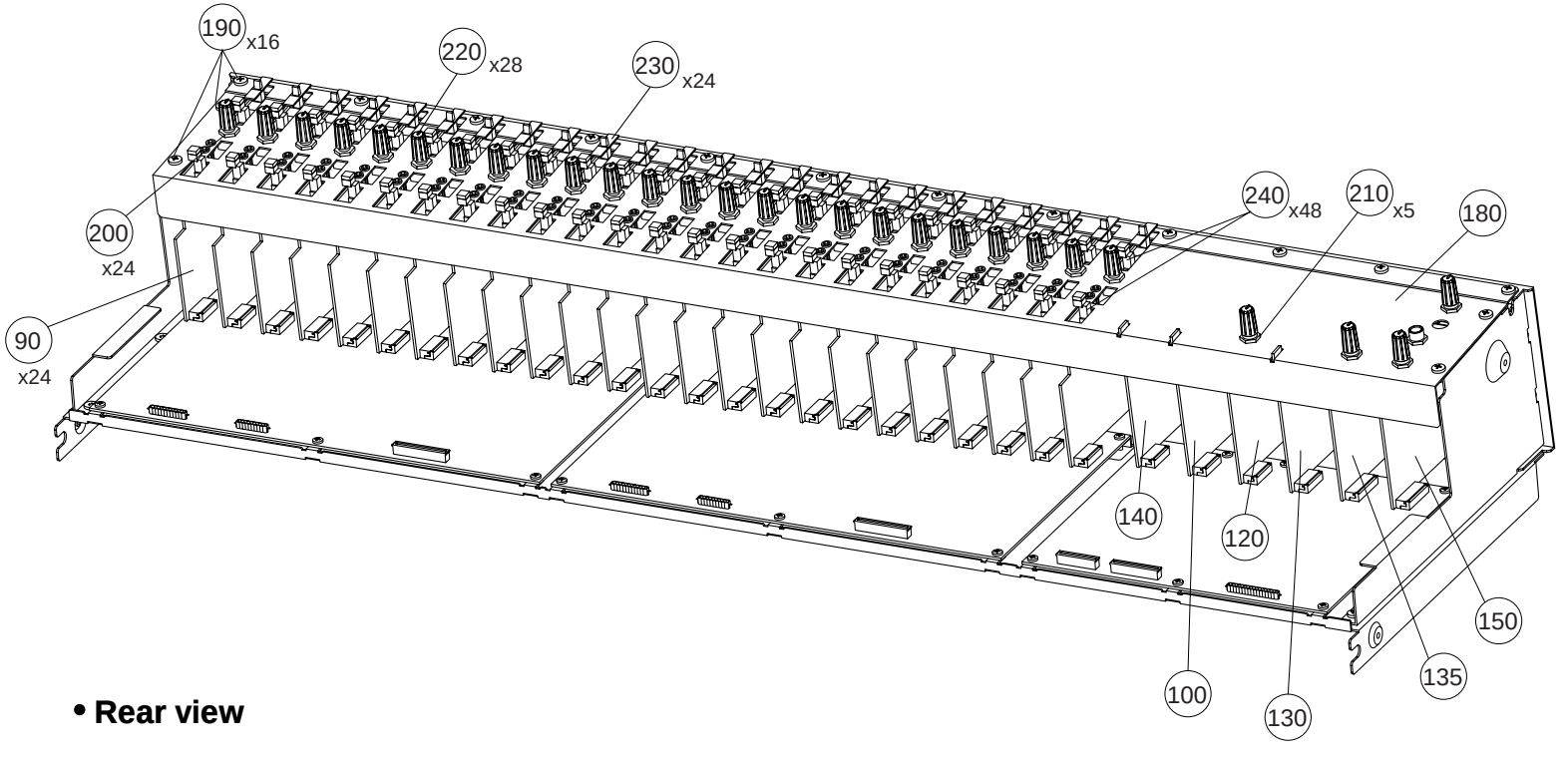
RANK: Japan only

REAR ASSEMBLY U

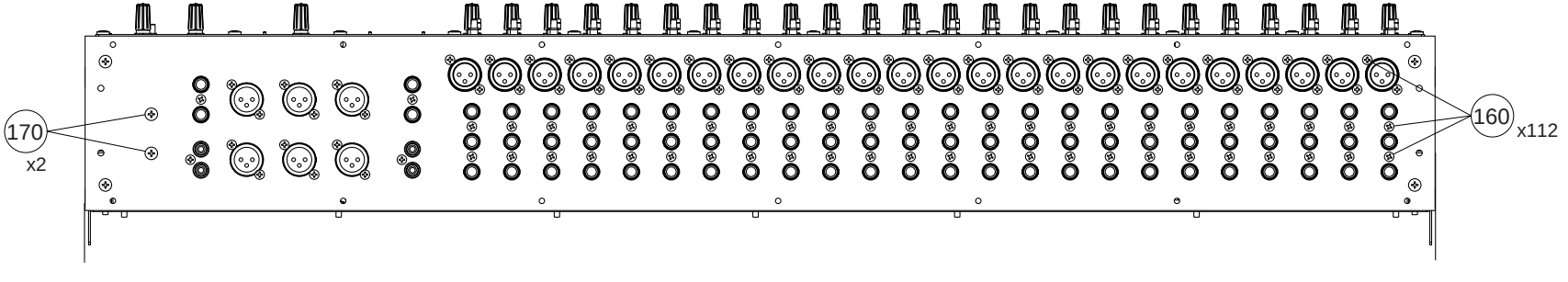
• Top view



• **Top view**



• **Rear view**

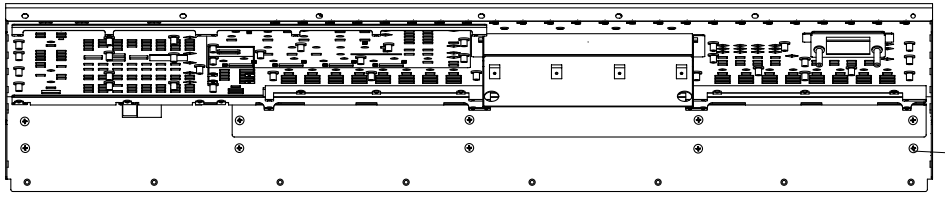


	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		--	REAR ASSEMBLY U	UPPER		DM2000 (V642810)		
*	10	**V8402600**	Rear Panel U	UPPER				
*	20	**V6365000**	Shield Sheet					
*	30	**V6365600**	Shield Plate L	LEFT				
*	40	**V6365700**	Shield Plate R	RIGHT				
	50	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			17	01
*	60	**V6285400**	Circuit Board	DM2K AD			2	
*	70	**V6285600**	Circuit Board	DM2K DA2				
	73	**VJ770600**	Cord Binder	S-126			2	01
	76	**CB817510**	Cord Binder	S-14B				03
	80	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			24	01
*	90	**V6468500**	Circuit Board	DM2K ANI			24	
*	100	**V6468600**	Circuit Board	DM2K LRG (CRCOM)		(V628790)		
*	120	**V6468700**	Circuit Board	DM2K SML (CRCOM)		(V628790)		
*	130	**V6468800**	Circuit Board	DM2K ST (STCOM)		(V628800)		
*	135	**V6468900**	Circuit Board	DM2K STD (STCOM)		(V628800)		
*	140	**V6469000**	Circuit Board	DM2K 2TRI (2TRCOM)		(V628810)		
*	150	**V6469100**	Circuit Board	DM2K PHN (2TRCOM)		(V628810)		
	160	**VN413300**	Bonding Tapping Screw-B	3.0X8 MFZN2BL			112	01
	170	**VP156800**	Bind Head Screw	A4.0X8 MFZN2BL			2	01
*	180	**V6365100**	PC Support					
	190	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			16	01
	200	**VR991600**	Hexagonal Nut	7.0 11X2 MFZN2BL			24	01
	210	**VJ388000**	Hexagonal Nut	9.0 11X2 MFZN2BL			5	01
	220	**VS085700**	Knob Gray/Dark Gray	S		GAIN 1-24,TALKBACK LEVEL, SMALL TRIM,STUDIO LEVEL, PHONES LEVEL	28	03
	230	**VJ859500**	Knob Red			+48V ON/OFF 1-24	24	05
	240	**VT651400**	Push Button D.Gray/Gray	S		PAD 26dB 1-24, INSERT ON/OFF 1-24	48	01

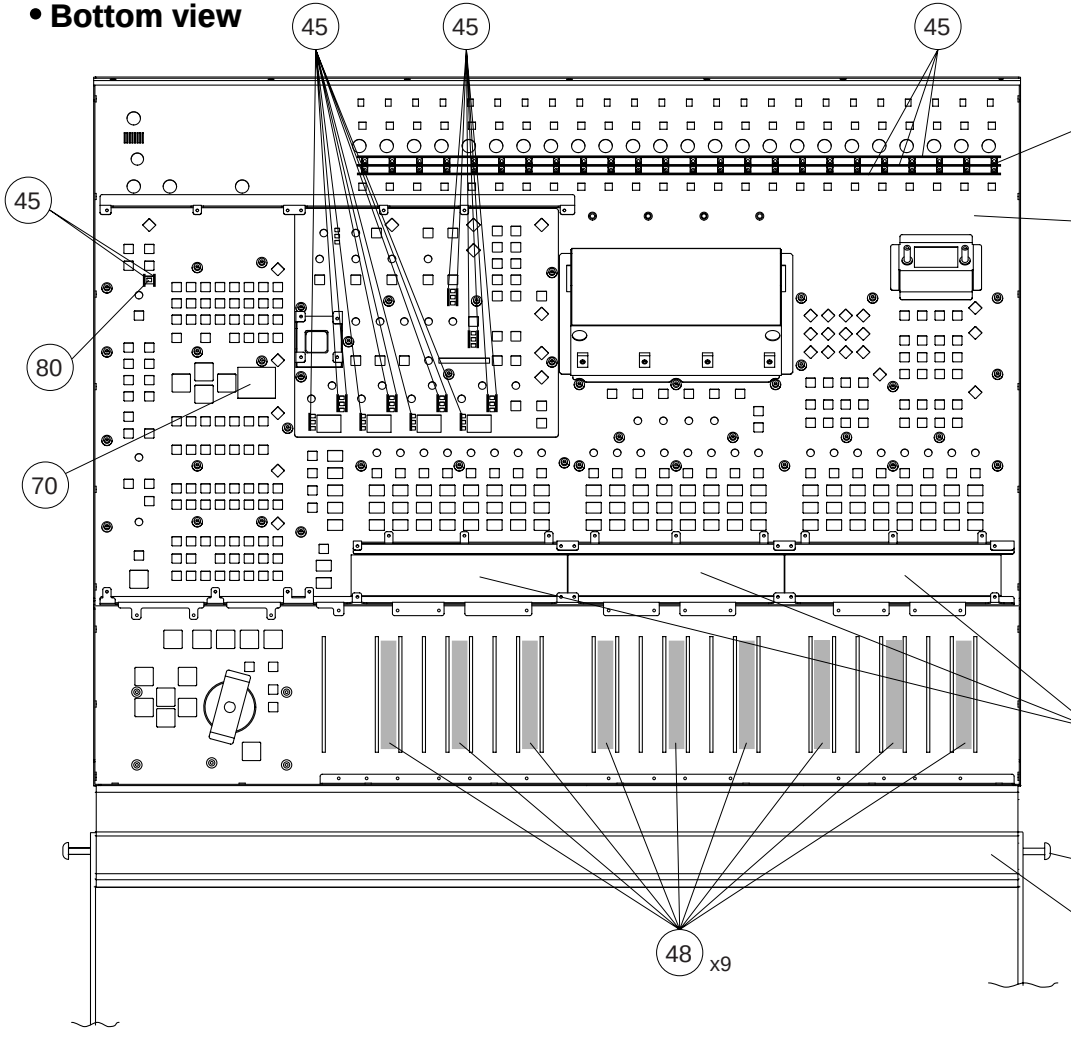
*: New Parts

RANK: Japan only

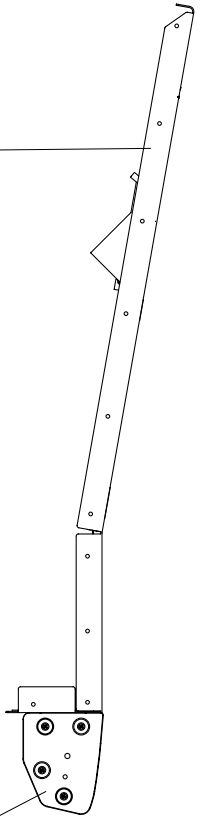
• **Front view**



• **Bottom view**

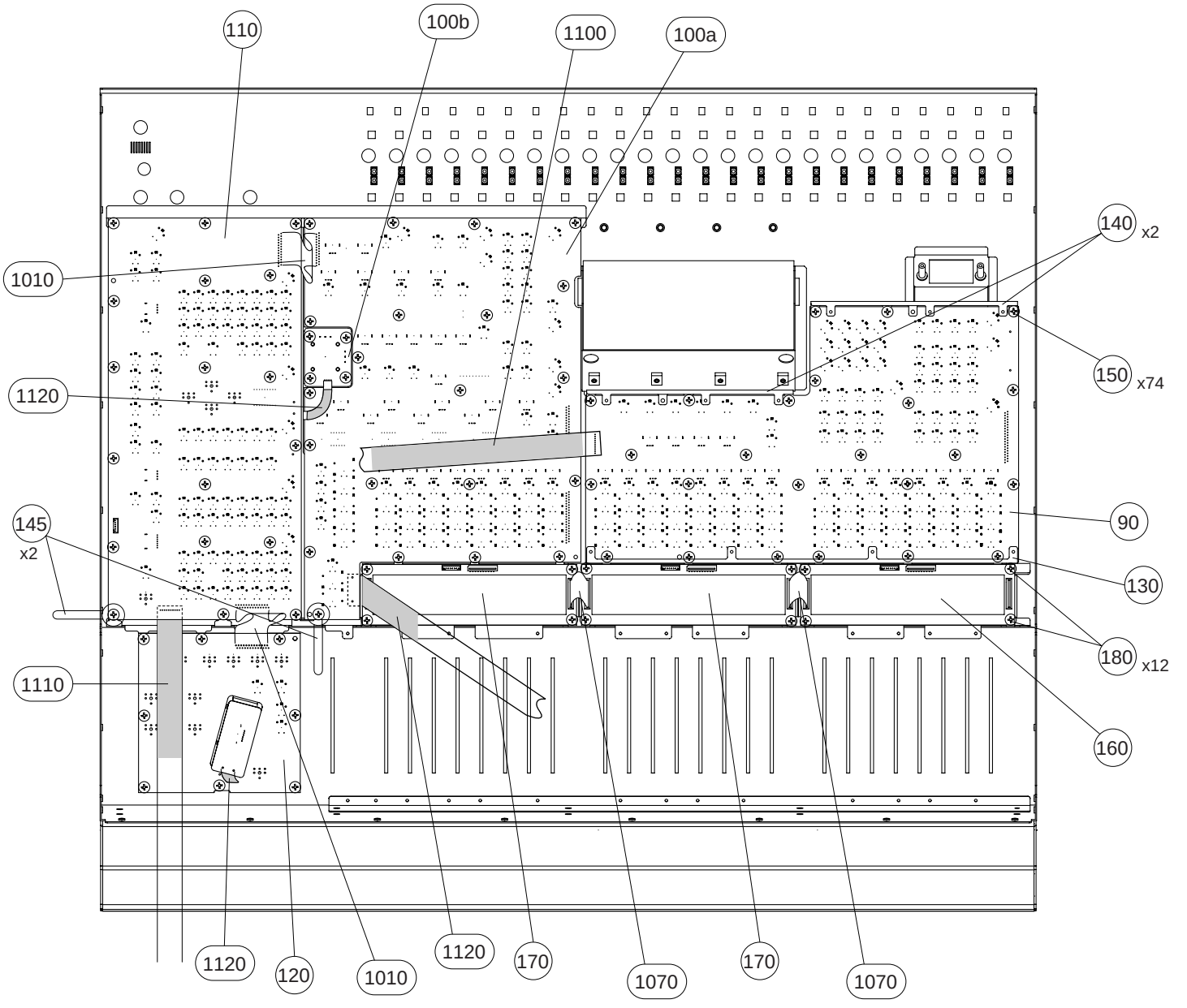


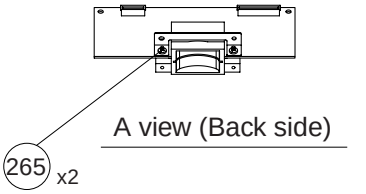
• **Side view**



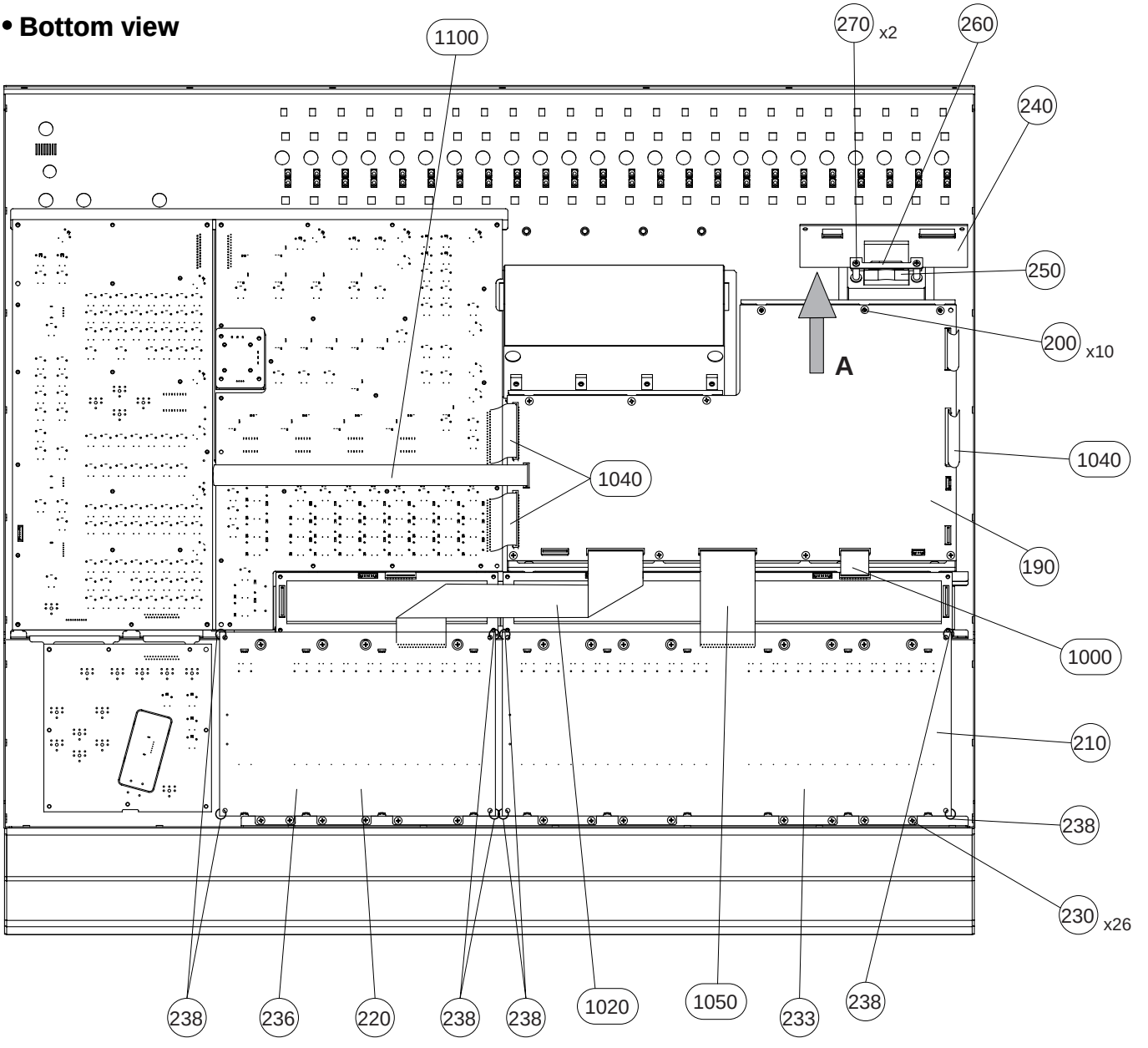
Front pad assembly: See page 19.

- **Bottom view**


110
100b
1100
100a
140 x2
1010
150 x74
1120
145 x2
90
130
180 x12
1110
160
1120
120
1010
1120
170
1070
170
1070

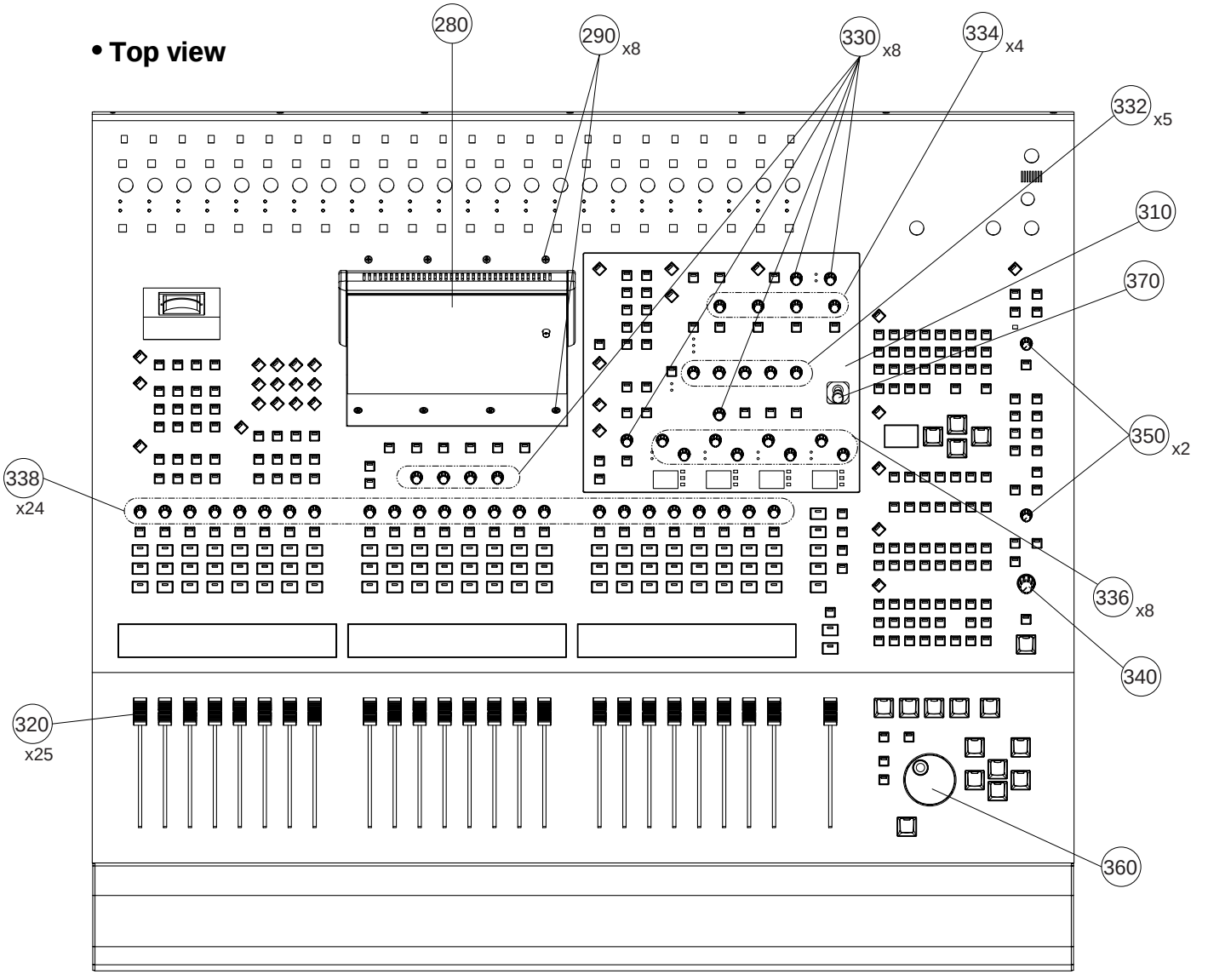

A view (Back side)
265 x2

• **Bottom view**

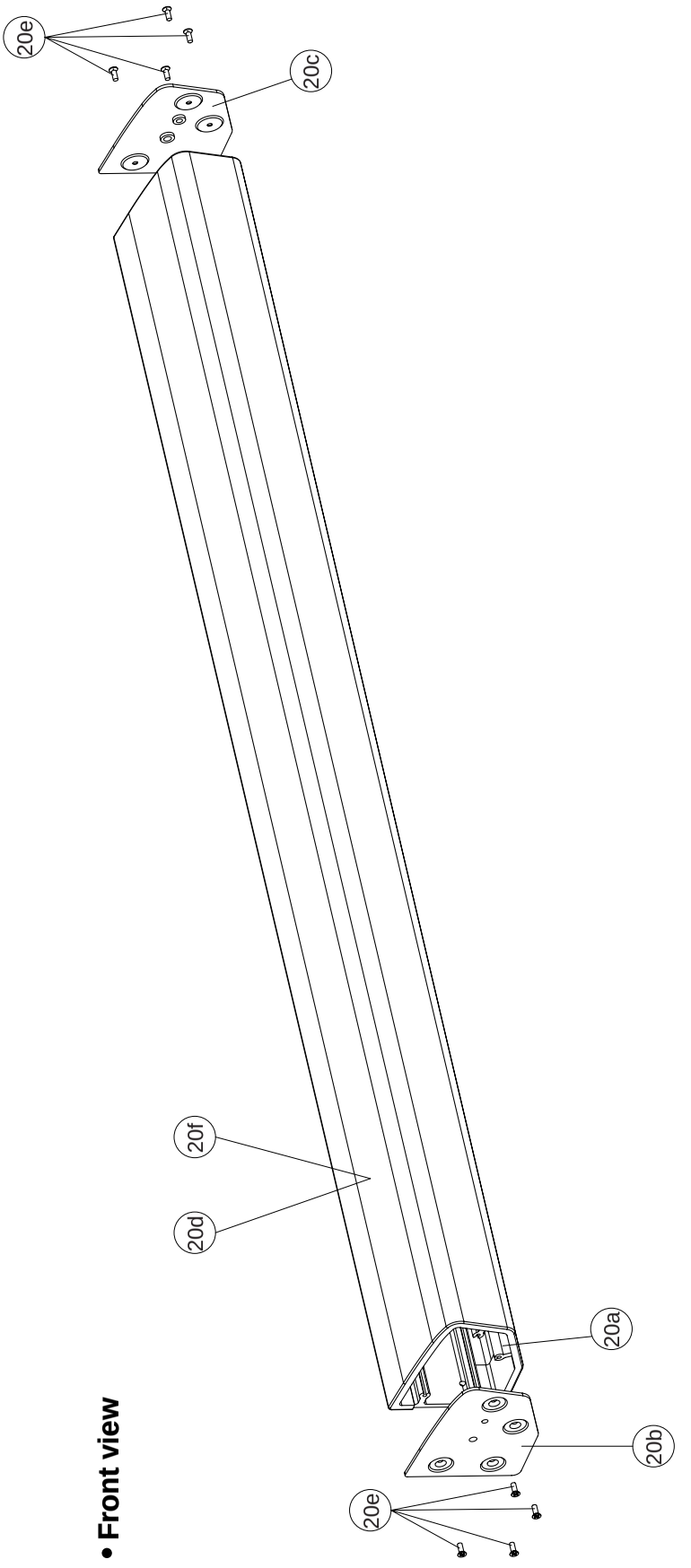

1100
270 x2
260
240
250
200 x10
A
1040
1040
190
1000
210
238
230 x26
238
236
220
238
238
1020
1050
233
238

LCD assembly: See page 22.

• Top view



- **Front Pad Assembly**



- **Front view**

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		--	CONTROL PANEL ASSEMBLY			DM2000 (V642710)		
*	10	**V8402300**	Control Panel					
*	20	**V6341100**	Front Pad Assembly					
	20a	--	Front Pad			(V841690)		
	20b	--	Front Pad Angle Bracket L	LEFT		(V775910)		
	20c	--	Front Pad Angle Bracket R	RIGHT		(V775920)		
	20d	--	Leather	YATP 128640		(V841780)		
*	20e	**VE447600**	Flat Head Tapping Screw-B	3.0X12 MFZN2BL			8	
	20f	--	Adhesive Tape	#5000NS		(V926420)		
	30	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			10	01
	40	**VB857600**	Bind Head Screw	5.0X20 MFZN2BL			2	01
	45	--	Adhesive Tape	#500 W=3		(VE36240)		
	48	--	Sponge Spacer-P	Panel		(V911600)	9	
*	50	**V8127000**	LED Lens	x2		PEAK 1-24,SIGNAL 1-24	24	
*	60	**V6435100**	FL Cover				3	
*	70	**V6435000**	Cover, 7 Seg. LED			SCENE MEMORY		
*	80	**V6180000**	LED Lens	x3		SOLO,MIX,FB,AUX1/MATRIX1, AUX5,AUX9,GATE,COMP, FREQUENCY,Q,dB,Hz,kHz	11	
*	90	**V6286300**	Circuit Board	DM2K PN1				
*	100a	**AAX33160**	Circuit Board	DM2K PN2 1/2		(V628640)		
*	100b	**AAX33170**	Circuit Board	DM2K PN2 2/2		(V628640)		
*	110	**V6286500**	Circuit Board	DM2K PN3				
*	120	**V7765300**	Circuit Board	DM2K PN4 (PN4COM)		(V830050)		
*	130	**V6597600**	Holder	SUB-CPU-1				
*	140	**V6597700**	Holder	SUB-CPU-2			2	
	145	**CB817510**	Cord Binder	S-14B			2	03
	150	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			74	01
*	160	**V6512000**	Display Tube	M40ST01AA				
*	170	**V6512100**	Display Tube	M40ST01AB			2	
	180	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			12	01
*	190	**V6285300**	Circuit Board	DM2K SUB				
	200	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			10	01
*	210	**V6286600**	Circuit Board	DM2K FD1				
*	220	**V6286800**	Circuit Board	DM2K FD2				
	230	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			26	01
	233	--	Insulation Sheet-FD1			(V908830)		
	236	--	Insulation Sheet-FD2			(V908840)		
	238	**CB069250**	Cord Holder	BK-1			8	01
*	240	**V6288200**	Circuit Board	DM2K DS (PN4COM)		(V830050)		
	250	**V3882500**	Escutcheon, Smart Media	K-CB				01
*	260	**V4227300**	Angle Bracket, Smart Media					
	265	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			2	01
	270	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			2	01
*	280	**V6428800**	LCD Assembly					
	290	**EP600790**	Flat Head Tapping Screw-B	3.0X8 MFZN2BL			12	01
*	310	**V6312500**	Panel Sheet					
	320	**V7421900**	Fader Knob Silver			1-24,STEREO	25	05
*	330	**V8486000**	Encoder Knob Light Gray			EFFECT 1-4,TIME,MIX/FB, PAN/SURROUND,ATT.	8	
*	332	**V8486200**	Encoder Knob M_Gray			THRESHOLD,RANGE/RATIO, ATTACK,DECAY/RELEASE, HOLD/GAIN	5	
*	334	**V8486300**	Encoder Knob Blue			LEVEL 1-4	4	
*	336	**V8486400**	Encoder Knob Green/M_Gray			F/Q,GAIN (LOW), F/Q,GAIN (LOW-MID), F/Q,GAIN (HIGH-MID), F/Q,GAIN (HIGH)	8	
*	338	**V8486500**	Encoder Knob Blue/M_Gray			CH 1-24	24	
	340	**VN009700**	Knob Black/Light Gray	L		CONTROL ROOM LEVEL		03
	350	**VS085700**	Knob Gray/Dark Gray	S		SOLO CONTRAST, SURROUND MONITOR LEVEL	2	03
	360	**V6529100**	Knob Wheel			PARAMETER WHEEL		14
*	370	**V6429800**	Joy Stick Knob			JOY STICK		
*	1000	**MF120070**	Connector Assembly	20P 70mm P=1.25				
*	1010	**MF126060**	Connector Assembly	26P 60mm P=1.25			2	
*	1020	**MF136300**	Connector Assembly	36P 300mm P=1.25				
*	1040	**MF140100**	Connector Assembly	40P 100mm P=1.25			3	
*	1050	**MF140120**	Connector Assembly	40P 120mm P=1.25				
*	1070	**VT645700**	Jumper Wire	FVP=2.0C26SB12-60			2	

*: New Parts

RANK: Japan only

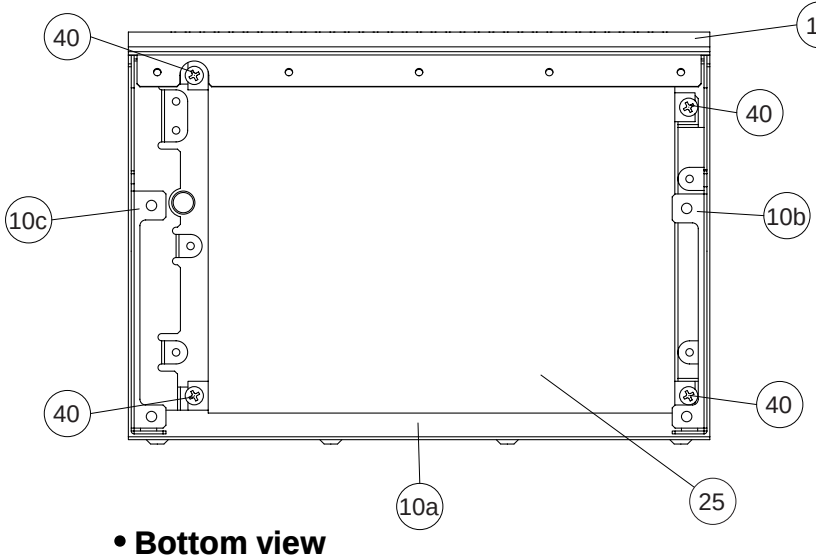
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
1100	--	Sponge Spacer-1			(V910540)	2	
1110	--	Sponge Spacer-2			(V910550)		
1120	--	Sponge Spacer-3			(V910560)	3	

❇: New Parts

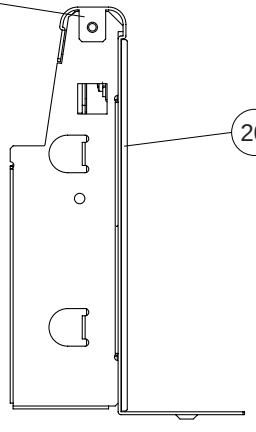
RANK: Japan only

LCD ASSEMBLY

• **Bottom view**



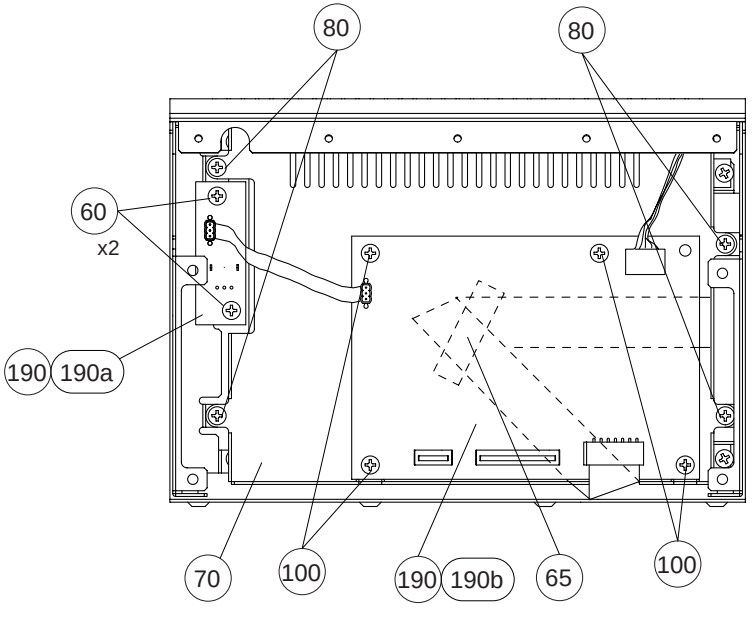
• **Left side view**



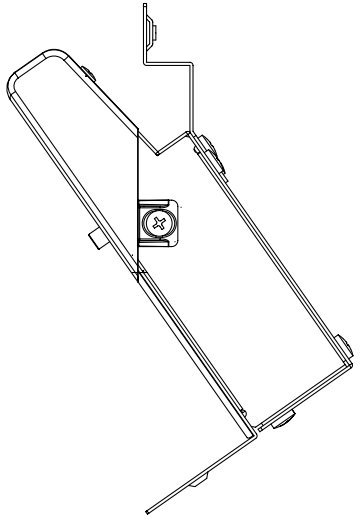
• **Top view**



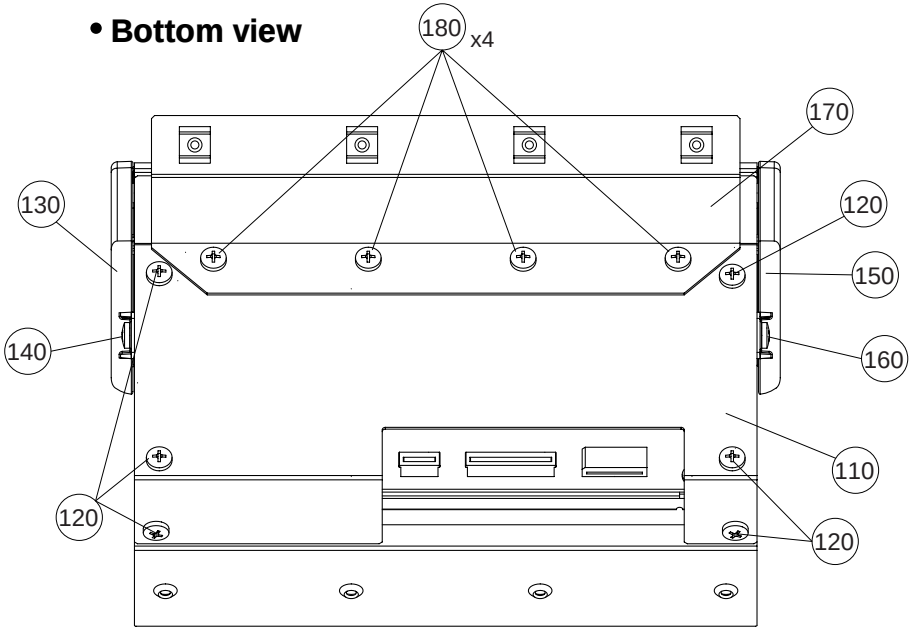
• **Bottom view**



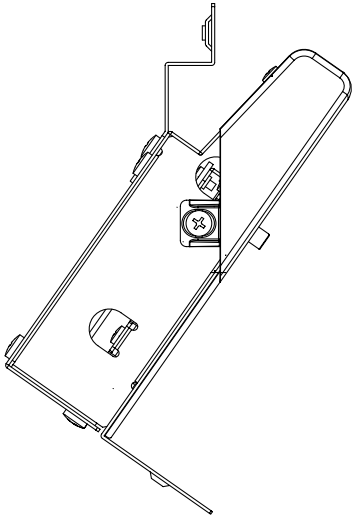
• **Right side view**



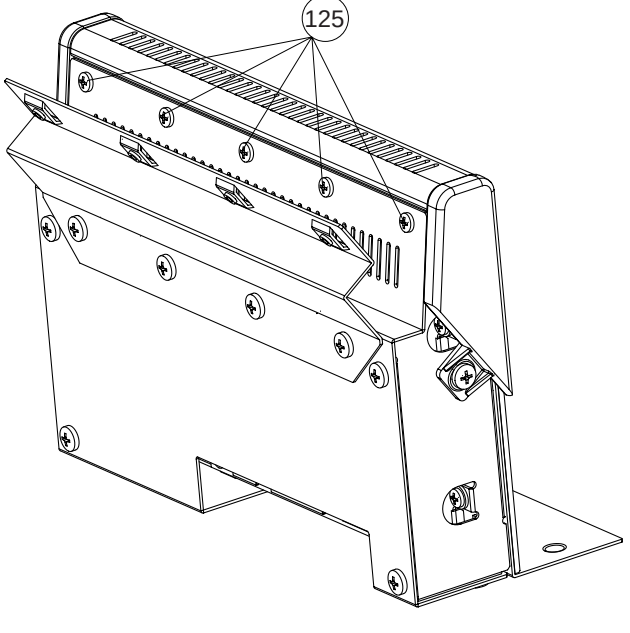
• **Bottom view**



• **Left side view**



• **Bottom view**



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*		**V6428800**	LCD ASSEMBLY			DM2000		
*	10	**V6437400**	LCD Case Assembly					
	10a	**--**	LCD Case			(V636340)		
	10b	**--**	LCD Side Panel L	LEFT		(V643630)		
	10c	**--**	LCD Side Panel R	RIGHT		(V643650)		
*	20	**V6363500**	LCD Cover					
	25	**V5125700**	LCD	EDMMPU3BDF				24
	40	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			4	01
	60	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			2	01
	65	**VA126100**	Adhesive Tape	12X50				03
*	70	**V6363600**	LCD Shield Panel					
	80	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			4	01
	100	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			4	01
*	110	**V6363700**	Rear LCD Case					
	120	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			6	01
	125	**VP157900**	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL			5	01
*	130	**V6363900**	LCD Pad R					
	140	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL				01
*	150	**V6363800**	LCD Pad L					
	160	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL				01
*	170	**V6364000**	LCD Bracket					
	180	**VC688800**	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			4	01
*	190	**V8249100**	Circuit Board	DM2 LCDCOM CNT+INV				
	190a	**--**	Circuit Board	DM2K CNT (LCDCOM)		(V824910)(V646840)		
	190b	**--**	Circuit Board	DM2K INV (LCDCOM)		(V824910)(V646830)		

✻: New Parts

RANK: Japan only

■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			ELECTRICAL PARTS			DM2000		
*		**V6469000**	Circuit Board	DM2K 2TRI (2TRCOM)		(V628810)(XZ035B0)		
*		**V6469100**	Circuit Board	DM2K PHN (2TRCOM)		(V628810)(XZ035B0)		
*		**V6285400**	Circuit Board	DM2K AD		(XZ020B0)		
*		**V6468500**	Circuit Board	DM2K ANI		(XZ032B0)		
*		**V6287300**	Circuit Board	DM2K BRG		(XZ031D0)		
*		**V6468600**	Circuit Board	DM2K LRG (CRCOM)		(V628790)(XZ033A0)		
*		**V6468700**	Circuit Board	DM2K SML (CRCOM)		(V628790)(XZ033A0)		
*		**V7765500**	Circuit Board	DM2K CPU		(X0383B0)		
*		**V6285500**	Circuit Board	DM2K DA1		(XZ021B0)		
*		**V6285600**	Circuit Board	DM2K DA2		(XZ022B0)		
*		**V6285200**	Circuit Board	DM2K DSP		(XZ018B0)		
*		**V6286600**	Circuit Board	DM2K FD1		(XZ029B0)		
*		**V6286800**	Circuit Board	DM2K FD2		(XZ030B0)		
*		**V6285900**	Circuit Board	DM2K JK1		(XZ024B0)		
*		**V6286200**	Circuit Board	DM2K JK2		(XZ025B0)		
*		**V8249100**	Circuit Board	DM2 LCDCOM CNT+INV		(X2160B0)		
		--	Circuit Board	DM2K CNT (LCDCOM)		(V646840)(X2160B0)		
		--	Circuit Board	DM2K INV (LCDCOM)		(V646830)(X2160B0)		
*		**V6285800**	Circuit Board	DM2K OPT		(XZ023B0)		
*		**V6286300**	Circuit Board	DM2K PN1		(XZ026B0)		
*		**AAX33160**	Circuit Board	DM2K PN2 1/2		(V628640)(XZ027B0)		
*		**AAX33170**	Circuit Board	DM2K PN2 2/2		(V628640)(XZ027B0)		
*		**V6286500**	Circuit Board	DM2K PN3		(XZ028B0)		
*		**V7765300**	Circuit Board	DM2K PN4 (PN4COM)		(V830050)(XZ219B0)		
*		**V6288200**	Circuit Board	DM2K DS (PN4COM)		(V830050)(XZ219B0)		
*		**V6468800**	Circuit Board	DM2K ST (STCOM)		(V628800)(XZ034A0)		
*		**V6468900**	Circuit Board	DM2K STD (STCOM)		(V628800)(XZ034A0)		
*		**V6285300**	Circuit Board	DM2K SUB		(XZ019B0)		
*		**V6543900**	Circuit Board	DM2K SW		(X2215B0)		
⚠ *		**V6526100**	Power Supply Unit	XR-642 J,UL,CSA,S				
*		**V6469000**	Circuit Board	DM2K 2TRI (2TRCOM)		(V628810)(XZ035B0)		
*		**V6469100**	Circuit Board	DM2K PHN (2TRCOM)		(V628810)(XZ035B0)		
		VT960700	Holder, Microphone					05
*		**V6435400**	Holder, Phones	x2				
		VT572400	Mic. Cushion					01
		VT572500	Mic. Cover					01
	158	**--**	Jumper Wire	0.55		(VA07890)		
	C101	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	-104	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C105	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C106	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C107	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	-116	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	C117	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	-120	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C121	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	-124	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C125	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C126	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C201	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C202	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C203	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	C204	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	C205	**UU138220**	Electrolytic Cap.	220.00 16.0V				01
	C206	**UU138220**	Electrolytic Cap.	220.00 16.0V				01
	C207	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C208	**VJ097400**	Electrolytic Cap.-KL	10.00 50.0V				01
	C209	**VG278400**	Ceramic Capacitor-B	220P 50V K				01
	C210	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C211	**VG278400**	Ceramic Capacitor-B	220P 50V K				01
	C212	**VF466700**	Ceramic Capacitor-SL	47P 50V J				01
	C213	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C214	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C215	**VF466700**	Ceramic Capacitor-SL	47P 50V J				01
	C216	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C217	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	-220	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C221	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	-224	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C226	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	-228	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	CN101	**VB994900**	Base Post Connector	MQ 9P TE				01
	CN201	**VA252400**	Base Post Connector	MQ 12P TE				03
*	CN202	**VU066300**	Connector Assembly	MIC&SAN 2P				
		JE000270	Condenser Mic.	WM-034C		MIC		03
	EM101	**FZ006920**	LC Filter	MTB271KBTBM				01
	-106	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM107	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM108	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM201	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM202	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM203	**FZ006970**	LC Filter	MTY223NBTBM				02
	-206	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC101	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC102	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC201	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC202	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	JK101	**VS056300**	Phone Jack	HLJ7001-01		2TR IN ANALOG 1 L		01
	JK102	**VS056300**	Phone Jack	HLJ7001-01		2TR IN ANALOG 1 R		01
	JK103	**VM725600**	Pin Jack	E 2P YKC21-3045		2TR IN ANALOG 2 L/R		02
	JK201	**LB302070**	Phone Jack	HLJ0544		PHONES OUT		03
	K201	**VI474400**	Terminal Plate					01
	K202	**VI474400**	Terminal Plate					01
	R101	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	-104	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R105	**HB027270**	Metal Film Resistor	27.0K 1/4 F				
*	R106	**HB027270**	Metal Film Resistor	27.0K 1/4 F				
*	R107	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	-110	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R111	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R112	**HF455220**	Carbon Resistor	220.0 1/4 J				01
*	R113	**HB027270**	Metal Film Resistor	27.0K 1/4 F				
*	R114	**HB027270**	Metal Film Resistor	27.0K 1/4 F				
	R115	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R116	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R117	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R118	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R119	**HB026820**	Metal Film Resistor	8.2K 1/4 F				
*	R120	**HB026820**	Metal Film Resistor	8.2K 1/4 F				
	R121	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R122	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R123	**HB027120**	Metal Film Resistor	12.0K 1/4 F				01
	R124	**HB027120**	Metal Film Resistor	12.0K 1/4 F				01
	R125	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	-128	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R129	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	-132	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R201	**HB026430**	Metal Film Resistor	4.3K 1/4 F				
*	R202	**HB026430**	Metal Film Resistor	4.3K 1/4 F				
*	R203	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R204	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R205	**HB026240**	Metal Film Resistor	2.4K 1/4 F				
*	R206	**HB026240**	Metal Film Resistor	2.4K 1/4 F				
	R207	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R208	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R209	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R210	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R211	**VC745000**	Metal Oxide Film Resistor	100.0 1W J				01
	R212	**VC745000**	Metal Oxide Film Resistor	100.0 1W J				01
	R213	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R214	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R215	**HF457150**	Carbon Resistor	15.0K 1/4 J				01
	R216	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R217	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R218	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R219	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
	R220	**HF455220**	Carbon Resistor	220.0 1/4 J				01
*	R221	**HB025220**	Metal Film Resistor	220.0 1/4 F				

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	R222	**HB027220**	Metal Film Resistor	22.0K 1/4 F				
	R223	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R224	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
	R225	**HF455220**	Carbon Resistor	220.0 1/4 J				01
*	R226	**HB026470**	Metal Film Resistor	4.7K 1/4 F				
	R227	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R228	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R229	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	TR201	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR202	**VK432900**	Transistor	2SD1915(F) S,T				01
	VR201	**VQ901400**	Rotary Variable Resistor	A20Kx2 RK14K12B		PHONES LEVEL		03
*	VR202	**V6226000**	Rotary Pot.	A 20K RK11K112		TALKBACK LEVEL		
*		**V6285400**	Circuit Board	DM2K AD		(XZ020B0)		
	C001	**UR877470**	Electrolytic Cap.	47.00 63.0V				
	C002	**UR848100**	Electrolytic Cap.	100.00 25.0V				01
	C003	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C004	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C005	**V5829300**	Electrolytic Cap. (chip)	100 16V 16SG100M+T				04
	C006	**V5829300**	Electrolytic Cap. (chip)	100 16V 16SG100M+T				04
	C007	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-009	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C010	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C011	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C012	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C101	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C102	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C103	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	-106	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	C107	**UA353220**	Mylar Capacitor	2200P 50V J				01
	C108	**UA353220**	Mylar Capacitor	2200P 50V J				01
	C109	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
	C110	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C111	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
	C112	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C113	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C114	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C115	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C116	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
	C117	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
	C118	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C119	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C120	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C121	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	-124	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C201	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C202	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C203	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	-206	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	C207	**UA353220**	Mylar Capacitor	2200P 50V J				01
	C208	**UA353220**	Mylar Capacitor	2200P 50V J				01
	C209	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
	C210	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C211	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
	C212	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C213	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C214	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C215	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C216	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
	C217	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
	C218	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C219	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C220	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C221	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	-224	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C301	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C302	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C303	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	-306	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
	C307	**UA353220**	Mylar Capacitor	2200P 50V J				01

❇: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C308	**UA353220**	Mylar Capacitor	2200P 50V J				01
C309	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C310	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C311	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C312	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C313	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C314	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C315	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C316	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C317	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C318	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C319	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C320	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C321	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-324	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C401	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C402	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C403	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
-406	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C407	**UA353220**	Mylar Capacitor	2200P 50V J				01
C408	**UA353220**	Mylar Capacitor	2200P 50V J				01
C409	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C410	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C411	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C412	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C413	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C414	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C415	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C416	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C417	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C418	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C419	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C420	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C421	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-424	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C501	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C502	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C503	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
-506	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C507	**UA353220**	Mylar Capacitor	2200P 50V J				01
C508	**UA353220**	Mylar Capacitor	2200P 50V J				01
C509	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C510	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C511	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C512	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C513	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C514	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C515	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C516	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C517	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C518	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C519	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C520	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C521	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-524	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C601	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C602	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C603	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
-606	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C607	**UA353220**	Mylar Capacitor	2200P 50V J				01
C608	**UA353220**	Mylar Capacitor	2200P 50V J				01
C609	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C610	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C611	**UU147220**	Electrolytic Cap.	22.00 25.0V				01
C612	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C613	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C614	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C615	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C616	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C617	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C618	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C619	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C620	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C621	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	-624	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	CN001	**VJ861600**	Wire Trap	52147 16P TE				01
	CN002	**VI879000**	Cable Holder	51048 12P TE				01
	CN003	**VI878800**	Cable Holder	51048 10P TE				01
	CN101	**VI378700**	Connector Socket	MQ 9P SE				01
	CN102	**VI378700**	Connector Socket	MQ 9P SE				01
	CN201	**VI378700**	Connector Socket	MQ 9P SE				01
	CN202	**VI378700**	Connector Socket	MQ 9P SE				01
	CN301	**VI378700**	Connector Socket	MQ 9P SE				01
	CN302	**VI378700**	Connector Socket	MQ 9P SE				01
	CN401	**VI378700**	Connector Socket	MQ 9P SE				01
	CN402	**VI378700**	Connector Socket	MQ 9P SE				01
	CN501	**VI378700**	Connector Socket	MQ 9P SE				01
	CN502	**VI378700**	Connector Socket	MQ 9P SE				01
	CN601	**VI378700**	Connector Socket	MQ 9P SE				01
	CN602	**VI378700**	Connector Socket	MQ 9P SE				01
	EM001	**FZ006970**	LC Filter	MTY223NBTBM				02
	-005	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC001	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC002	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC003	**XM182A00**	IC	TC7S04F		INVERTER		01
	IC101	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC102	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC103	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	IC201	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC202	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC203	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	IC301	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC302	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC303	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	IC401	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC402	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC403	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	IC501	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC502	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC503	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	IC601	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC602	**XF291A00**	IC	UPC4570G2		OP AMP		03
*	IC603	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	J001	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	L001	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	-011	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	R101	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R102	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R103	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R104	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R109	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-114	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R115	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R116	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R117	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R118	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-121	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R122	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-127	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R128	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R129	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R201	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R202	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R203	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R204	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R209	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-214	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R215	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R216	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R217	**HB026270**	Metal Film Resistor	2.7K 1/4 F				

❇: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R218	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-221	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R222	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-227	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R228	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R229	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R301	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R302	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R303	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R304	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R309	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-314	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R315	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R316	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R317	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R318	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-321	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R322	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-327	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R328	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R329	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R401	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R402	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R403	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R404	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R409	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-414	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R415	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R416	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R417	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R418	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-421	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R422	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-427	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R428	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R429	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R501	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R502	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R503	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R504	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R509	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-514	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R515	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R516	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R517	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R518	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-521	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R522	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-527	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R528	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R529	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R601	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R602	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R603	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R604	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R609	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-614	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
*	R615	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R616	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R617	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R618	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-621	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R622	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-627	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R628	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R629	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	W002	**V8970400**	Jumper Wire	FVP=2.0C26SB12-120				
*	W003	**V8970300**	Jumper Wire	FVP=2.0C26SB10-120				
*		**V6468500**	Circuit Board	DM2K ANI		(XZ032B0)		

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*		**V6435700**	Holder, Phones	x3				
*		**V7539700**	Cannon Angle					
	159	**--**	Jumper Wire	0.55		(VA07890)		
	C100	**UR877470**	Electrolytic Cap.	47.00 63.0V				
	C101	**VJ097400**	Electrolytic Cap.-KL	10.00 50.0V				01
	C102	**VJ097400**	Electrolytic Cap.-KL	10.00 50.0V				01
	C103	**VG278400**	Ceramic Capacitor-B	220P 50V K				01
	C104	**VG278400**	Ceramic Capacitor-B	220P 50V K				01
	C105	**VF467000**	Ceramic Capacitor-B	1000P 50V K				01
	C106	**VF467000**	Ceramic Capacitor-B	1000P 50V K				01
	C107	**UR819100**	Electrolytic Cap.	1000 6.3V				01
	C108	**VF466600**	Ceramic Capacitor-SL	10P 50V J				01
	C109	**VF466600**	Ceramic Capacitor-SL	10P 50V J				01
	C110	**VG278400**	Ceramic Capacitor-B	220P 50V K				01
	C111	**VG276600**	Ceramic Capacitor-SL	22P 50V J				01
	C112	**VG276600**	Ceramic Capacitor-SL	22P 50V J				01
	C113	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	C114	**UU148100**	Electrolytic Cap.	100.00 25.0V				01
	C115	**UU148100**	Electrolytic Cap.	100.00 25.0V				01
	C116	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C117	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C118	**VG276600**	Ceramic Capacitor-SL	22P 50V J				01
	C119	**VG276600**	Ceramic Capacitor-SL	22P 50V J				01
	C120	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C121	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
	C122	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	-124	**VF466800**	Ceramic Capacitor-B	100P 50V K				01
	C125	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C127	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C128	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C129	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C130	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C131	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	-138	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C139	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C140	**UU148100**	Electrolytic Cap.	100.00 25.0V				01
	C141	**UU148100**	Electrolytic Cap.	100.00 25.0V				01
	CN100	**VB994900**	Base Post Connector	MQ 9P TE				01
	D100	**VD631600**	Diode	1SS133,176,HSS104				01
	-102	**VD631600**	Diode	1SS133,176,HSS104				01
	EM100	**FZ006920**	LC Filter	MTB271KBTBM				01
	-105	**FZ006920**	LC Filter	MTB271KBTBM				01
	IC100	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC101	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC102	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC103	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	JK100	**VS763000**	Cannon Connector	NC3FAHR1-0		INPUT A		03
	JK101	**LB301920**	Phone Jack	HLJ4306 STEREO		INPUT B		02
	JK102	**VS056300**	Phone Jack	HLJ7001-01		INSERT OUT		01
	JK103	**LB301920**	Phone Jack	HLJ4306 STEREO		INSERT IN		02
	LD100	**VH325200**	LED	GL2PR6		PEAK 1-24		01
	LD101	**VH325300**	LED	GL2EG6		SIGNAL 1-24		01
	R100	**VP441000**	Metal Film Resistor	6.8K 1/4 F				01
	R101	**VP441000**	Metal Film Resistor	6.8K 1/4 F				01
	R102	**HV755390**	Flame Proof C. Resistor	390.0 1/4 J				01
	R103	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R104	**HF454100**	Carbon Resistor	10.0 1/4 J				01
	R105	**HF454100**	Carbon Resistor	10.0 1/4 J				01
*	R106	**VP443000**	Metal Film Resistor	47.0K 1/4 F				
*	R107	**VP443000**	Metal Film Resistor	47.0K 1/4 F				
*	R108	**VP437400**	Metal Film Resistor	220.0 1/4 F				
*	R109	**VP439700**	Metal Film Resistor	2.0K 1/4 F				
*	R110	**VP439700**	Metal Film Resistor	2.0K 1/4 F				
	R111	**VP440600**	Metal Film Resistor	4.7K 1/4 F				01
	R112	**HF454100**	Carbon Resistor	10.0 1/4 J				01
	R113	**HF454100**	Carbon Resistor	10.0 1/4 J				01
	R114	**VP439800**	Metal Film Resistor	2.2K 1/4 F				01
	R115	**VP439800**	Metal Film Resistor	2.2K 1/4 F				01
*	R116	**VP434800**	Metal Film Resistor	18.0 1/4 F				
	R117	**VP442200**	Metal Film Resistor	22.0K 1/4 F				01

❇: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	R118	**VP440900**	Metal Film Resistor	6.2K 1/4 F				
*	R119	**VP440900**	Metal Film Resistor	6.2K 1/4 F				
	R120	**VP442200**	Metal Film Resistor	22.0K 1/4 F				01
	R121	**VP441400**	Metal Film Resistor	10.0K 1/4 F				01
	R122	**VP441400**	Metal Film Resistor	10.0K 1/4 F				01
	R123	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R124	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	-126	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R127	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R128	**HF454750**	Carbon Resistor	75.0 1/4 J				01
*	R129	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R130	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R131	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R132	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R133	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R134	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	-136	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R137	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	-139	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R140	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R141	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R142	**HB026910**	Metal Film Resistor	9.1K 1/4 F				
*	R145	**HB026910**	Metal Film Resistor	9.1K 1/4 F				
	R146	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R147	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R148	**HB028100**	Metal Film Resistor	100.0K 1/4 F				
	R149	**HB028100**	Metal Film Resistor	100.0K 1/4 F				
	R150	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R151	**HB027820**	Metal Film Resistor	82.0K 1/4 F				
	R152	**HB028100**	Metal Film Resistor	100.0K 1/4 F				
*	R153	**HB027130**	Metal Film Resistor	13.0K 1/4 F				
*	R154	**HB027820**	Metal Film Resistor	82.0K 1/4 F				
	R155	**HB028100**	Metal Film Resistor	100.0K 1/4 F				
	R156	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R157	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R158	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
	R159	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
	R160	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	-163	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R164	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R165	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
	R166	**HV755390**	Flame Proof C. Resistor	390.0 1/4 J				01
	R167	**HV755390**	Flame Proof C. Resistor	390.0 1/4 J				01
*	R168	**HB027470**	Metal Film Resistor	47.0K 1/4 F				
	R169	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	SW100	**VQ907900**	Slide Switch	SSSU112-S06N-1		+48V ON/OFF 1-24		01
	SW101	**VQ901900**	Push Switch	SPUN19-2N-W H6.5		PAD 26dB 1-24		03
	SW102	**VQ901900**	Push Switch	SPUN19-2N-W H6.5		INSERT ON/OFF 1-24		03
	TR100	**IC224030**	Transistor	2SC2240 GR,BL				01
	TR101	**IC224030**	Transistor	2SC2240 GR,BL				01
	TR102	**IC174020**	Transistor	2SC1740S R,S				01
	TR103	**IC174020**	Transistor	2SC1740S R,S				01
	TR104	**VV912400**	Transistor	2SA933ASTP R.S				01
	-107	**VV912400**	Transistor	2SA933ASTP R.S				01
	TR108	**IC174020**	Transistor	2SC1740S R,S				01
	VR100	**VT975100**	Rotary Variable Resistor	5K		GAIN 1-24		04
*		**V6287300**	Circuit Board	DM2K BRG		(XZ031D0)		
		EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL				01
		IL000690	Insulation Sheet	CSSX-G509				01
	C001	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C007	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	C013	**UR848470**	Electrolytic Cap.	470.00 25.0V				01
	C040	**UR639220**	Electrolytic Cap.	2200 16.0V				
	C043	**US061680**	Ceramic Capacitor-SL(chip)	68P 50V J				01
	C044	**US062330**	Ceramic Capacitor-SL(chip)	330P 50V J				01
	C045	**US062470**	Ceramic Capacitor-SL(chip)	470P 50V J				01
	C046	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C047	**US061470**	Ceramic Capacitor-CH(chip)	47P 50V J				01
	C048	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K				01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C050	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C051	**UB245220**	Monolithic Ceramic Cap.	F 0.220 25V Z				01
*	C052	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C053	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C054	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
*	-056	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
	C057	**UR838470**	Electrolytic Cap.	470.00 16.0V				01
	C058	**UR838470**	Electrolytic Cap.	470.00 16.0V				01
	C059	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C060	**UR739220**	Electrolytic Cap.	2200 16.0V				01
	CN001	**VB389800**	Connector Base Post	PH 2P TE				01
	CN002	**LB932080**	Base Post Connector	VH 8P TE				01
	CN003	**LB932060**	Base Post Connector	VH 6P TE				01
	CN004	**LB932100**	Base Post Connector	VH 10P TE				02
	CN005	**VB390500**	Connector Base Post	PH 9P TE				03
	CN006	**VB389900**	Connector Base Post	PH 3P TE				01
	CN007	**VJ861600**	Wire Trap	52147 16P TE				01
	CN008	**VJ861600**	Wire Trap	52147 16P TE				01
	CN009	**VK025800**	Wire Trap	52147 14P TE				01
	CN010	**VF667700**	Wire Trap	52147 17P TE				01
	CN011	**VB390400**	Connector Base Post	PH 8P TE				01
	CN012	**LB932090**	Base Post Connector	VH 9P TE				01
	CN013	**LB932100**	Base Post Connector	VH 10P TE				02
	CN014	**VK025500**	Wire Trap	52147 11P TE				01
	CN015	**VK025600**	Wire Trap	52147 12P TE				01
	CN016	**LB932080**	Base Post Connector	VH 8P TE				01
	CN017	**VB390200**	Connector Base Post	PH 6P TE				01
	CN018	**VK024800**	Wire Trap	52147 4P TE				01
	CN019	**VF728200**	Wire Trap	52147 10P TE				01
	-021	**VF728200**	Wire Trap	52147 10P TE				01
	CN022	**VJ861600**	Wire Trap	52147 16P TE				01
	CN023	**VK025600**	Wire Trap	52147 12P TE				01
	CN024	**VK025500**	Wire Trap	52147 11P TE				01
	D001	**V2376600**	Diode	RB500V-40				01
	D002	**VU445900**	Diode	RB050L-40				02
	D003	**VP974300**	Diode	D3S6M-4002				03
	D004	**VT332900**	Diode	1SS355 TE-17				01
	DA001	**VV556300**	Diode Array	DAN217 0.3A X2				01
	EM001	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM002	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM003	**FZ006970**	LC Filter	MTY223NBTBM				02
	-005	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM006	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM007	**FZ006970**	LC Filter	MTY223NBTBM				02
	-016	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM018	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM023	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM024	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM025	**FZ006970**	LC Filter	MTY223NBTBM				02
	-029	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM030	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM031	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM032	**FZ006970**	LC Filter	MTY223NBTBM				02
	-036	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM037	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM038	**FZ006970**	LC Filter	MTY223NBTBM				02
	-041	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM042	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM043	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM044	**FZ006970**	LC Filter	MTY223NBTBM				02
	-048	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM053	**FZ006970**	LC Filter	MTY223NBTBM				02
	-055	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM060	**FZ006970**	LC Filter	MTY223NBTBM				02
	-065	**FZ006970**	LC Filter	MTY223NBTBM				02
*	FT001	**V8952100**	FET	TPC8009-H				
*	-003	**V8952100**	FET	TPC8009-H				
	IC001	**XT627A00**	IC	PST594C-MMP4P		SYSTEM RESET		03
*	IC003	**X2005A00**	IC	LTC1735CS		DC-DC CONVERTER		
	J001	**--**	Jumper Wire	0.55		(VA07890)		

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	K001	**VG864300**	Heat Sink	DPS(15)-30				02
*	L001	**V7759000**	Coil	CDEP134-H-4R8 4.8u				
	R004	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R005	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R008	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R009	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R010	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R011	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R012	**VI825600**	Carbon Resistor (chip)	56.0 1/0 J				01
	R013	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R016	**RD256240**	Carbon Resistor (chip)	2.4K 0.1 J				01
	R017	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R018	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R019	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R020	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R021	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R023	**RD257330**	Carbon Resistor (chip)	33.0K 0.1 J				01
	R025	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R026	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R027	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R028	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R029	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	R030	**V8106400**	Carbon Resistor (chip)	6.8				
	R031	**RD257160**	Carbon Resistor (chip)	16.0K 0.1 J				01
	R032	**RD256510**	Carbon Resistor (chip)	5.1K 0.1 J				01
	R033	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R034	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R035	**VC740900**	Metal Oxide Film Resistor	2.2 1W J				01
	R036	**VC740900**	Metal Oxide Film Resistor	2.2 1W J				01
	R037	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R050	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	TH001	**VT816300**	Thermistor	ERT-D2FGL332S 3.3K				01
*	TH002	**VV455700**	Protector Switch	RXE020 0.20A 72V				
	TH003	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH004	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
*	TH005	**VV457800**	Protector Switch	RUE135 1.35A 30V				
*	TH006	**VV457800**	Protector Switch	RUE135 1.35A 30V				
	TH007	**VV458000**	Protector Switch	RUE250 2.50A 30V				03
	TH008	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH009	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH014	**VV458200**	Protector Switch	RUE400 4.00A 30V				03
	TH015	**VV458200**	Protector Switch	RUE400 4.00A 30V				03
	TH016	**VV457900**	Protector Switch	RUE160 1.60A 30V				02
	TH017	**VV457900**	Protector Switch	RUE160 1.60A 30V				02
*	TH018	**VV455700**	Protector Switch	RXE020 0.20A 72V				
*	TH019	**VV456700**	Protector Switch	RXE135 1.35A 72V				
*	TH020	**VV456700**	Protector Switch	RXE135 1.35A 72V				
	TH021	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH022	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
	TH023	**VV458200**	Protector Switch	RUE400 4.00A 30V				03
	TH024	**VV458000**	Protector Switch	RUE250 2.50A 30V				03
*	TH025	**VV455700**	Protector Switch	RXE020 0.20A 72V				
*	TH026	**VV455700**	Protector Switch	RXE020 0.20A 72V				
	TH027	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
	TH028	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
	TH029	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH030	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
*	TH031	**V7394300**	Protector Switch	MINISMDM110/16				
*	TH032	**V7394300**	Protector Switch	MINISMDM110/16				
	TH033	**VV456100**	Protector Switch	RXE040 0.40A 72V				03
	TH034	**VV458100**	Protector Switch	RUE300 3.00A 30V				03
*	TH039	**VV455700**	Protector Switch	RXE020 0.20A 72V				
	TH040	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
*	TH041	**VV455700**	Protector Switch	RXE020 0.20A 72V				
*	TH043	**VV455700**	Protector Switch	RXE020 0.20A 72V				
	TH060	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
	-065	**VU847300**	Protector Switch	RUE185 1.85A 30V				03
	TR002	**VJ927200**	Transistor	2SA1162 O,Y				01
	TR003	**VG013400**	Transistor	2SD1664 82-390				01
	TR005	**VV925400**	Transistor	2SC2SC2712 GR				01

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	TR006	**VJ927200**	Transistor	2SA1162 O,Y				01
	TR007	**VJ927200**	Transistor	2SA1162 O,Y				01
	TR008	**VV925400**	Transistor	2SC2SC2712 GR				01
	-010	**VV925400**	Transistor	2SC2SC2712 GR				01
	TR011	**IB059630**	Transistor	2SB596 O,Y				04
*	ZD001	**VU173500**	Zener Diode	UDZ 24B TE-17 24V				
	ZD002	**VU171800**	Zener Diode	UDZ 4.7BTE-17 4.7V				01
*		**V7765500**	Circuit Board	DM2K CPU		(X0383B0)		
	BT101	**VN103600**	Battery Holder	CR2032				03
	C101	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-117	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C118	**UB012470**	Monolithic Ceramic Cap.	B 470P 50V K				01
	C119	**UB446100**	Ceramic Capacitor-F (chip)	F 1.0 16V Z				01
	C120	**UB446100**	Ceramic Capacitor-F (chip)	F 1.0 16V Z				01
	C121	**UB012470**	Monolithic Ceramic Cap.	B 470P 50V K				01
	C122	**UF018100**	Electrolytic Cap. (chip)	100 6.3V				01
	C123	**UB051220**	Monolithic Ceramic Cap.	SL 22P 50V J				01
	C124	**UB051220**	Monolithic Ceramic Cap.	SL 22P 50V J				01
	C125	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-146	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C147	**UF018100**	Electrolytic Cap. (chip)	100 6.3V				01
	C148	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C154	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-163	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C165	**UF028100**	Electrolytic Cap. (chip)	100 10V				01
	C166	**UF018100**	Electrolytic Cap. (chip)	100 6.3V				01
	C167	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-172	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C173	**UB051180**	Monolithic Ceramic Cap.	SL 18P 50V J				01
	C174	**UB051150**	Monolithic Ceramic Cap.	SL 15P 50V J				01
	C175	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-183	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C186	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C187	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C188	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C189	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C190	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C191	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	CN101	**VF728300**	Wire Trap	52147 6P TE				01
*	CN104	**V4510100**	Pin Header	HIF6A 80P TE				
*	CN105	**V4510100**	Pin Header	HIF6A 80P TE				
	CN106	**VK025600**	Wire Trap	52147 12P TE				01
	CN107	**VK025100**	Wire Trap	52147 7P TE				01
	CN108	**VK025800**	Wire Trap	52147 14P TE				01
	CN109	**VB390100**	Connector Base Post	PH 5P TE				01
	CN110	**VB390000**	Connector Base Post	PH 4P TE				01
	D101	**V2376600**	Diode	RB500V-40				01
	-103	**V2376600**	Diode	RB500V-40				01
	EM101	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	-103	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM104	**FZ006970**	LC Filter	MTY223NBTBM				02
	-107	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC101	**XY065A00**	IC	SH7709A		CPU		14
*	IC102	**X2086A00**	IC	HM62V8512CLTT-7		SRAM 4M		
*	-105	**X2086A00**	IC	HM62V8512CLTT-7				
*	IC102	**X2882A00**	IC	M5M5V408BTP-85H				
*	-105	**X2882A00**	IC	M5M5V408BTP-85H				
*	IC102	**X2883A00**	IC	K6T4008VIC-VB70				
*	-105	**X2883A00**	IC	K6T4008VIC-VB70				
*	IC102	**X2884A00**	IC	CY62148VLL-70ZI				
*	-105	**X2884A00**	IC	CY62148VLL-70ZI				
*	IC106	**X2661A00**	IC	MBM29LV160BE90TN		FLASH ROM 16M		
*	IC107	**X2662A00**	IC	MBM29LV160BE90TN		FLASH ROM 16M		
	IC108	**X0303A00**	IC	HY57V641620HGT-HQ		SDRAM 64M		15
	IC108	**XZ414B00**	IC	W986416DH-7				
*	IC108	**X2760A00**	IC	K4S641632F-TC75				
	IC109	**X0303A00**	IC	HY57V641620HGT-HQ		SDRAM 64M		15
	IC109	**XZ414B00**	IC	W986416DH-7				
*	IC109	**X2760A00**	IC	K4S641632F-TC75				

✻: New Parts

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NOTE: Two or more makers' mixture presupposes that it is improper into the same circuit board. (IC102-105, 108, 109)

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	IC112	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC114	**XY937A00**	IC	CY2305		CLOCK BUFFER		07
	IC115	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-117	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC118	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC119	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-121	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC122	**XS775A00**	IC	TC7SH04FU		INVERTER		01
	IC123	**XR680A00**	IC	TC7SH08FU		AND		
	IC125	**XW324A00**	IC	TC74VHC139F(EL)		DECODER		01
	IC126	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC127	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
*	IC128	**X0333A00**	IC	RTC-62423		REALTIME CLOCK		
	IC129	**XQ595A00**	IC	S1D13305F00B100		LCD CONTROLLER		08
	IC130	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
	IC131	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC132	**XM332A00**	IC	TC74VHC04F(EL)		INVERTER		01
	IC133	**XT229A00**	IC	TC74VHC00F		NAND		01
	IC134	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC135	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC136	**XY537A00**	IC	TC74VHC32F(EL)		OR		01
	IC137	**XR680A00**	IC	TC7SH08FU		AND		
*	IC138	**X2163A00**	IC	M62023FP		RESET/BACKUP CONTROLLER		
	IC139	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
*	IC140	**X2157A00**	IC	UPC2918T-E1		REGULATOR +1.8V		
	IC141	**XY537A00**	IC	TC74VHC32F(EL)		OR		01
	IC142	**XP226A00**	IC	IC-PST591DMT		SYSTEM RESET		03
	L101	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-103	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L104	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-121	**V8143400**	Chip Inductance	BLM21R121SKPT				
	R101	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R105	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-112	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R114	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R116	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R117	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R120	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-128	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R129	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R130	**RD259470**	Carbon Resistor (chip)	4.7M 0.1 J				01
	R131	**RD256300**	Carbon Resistor (chip)	3.0K 0.1 J				01
	R132	**RD256200**	Carbon Resistor (chip)	2.0K 0.1 J				01
	R133	**RD259100**	Carbon Resistor (chip)	1.0M 0.1 J				01
	RA101	**RE047100**	Resistor Array	10KX4				01
	-145	**RE047100**	Resistor Array	10KX4				01
	RA146	**RE047220**	Resistor Array	22KX4				01
	RA147	**RE047220**	Resistor Array	22KX4				01
	RA148	**RE044680**	Resistor Array	68X4				01
	RA149	**RE044680**	Resistor Array	68X4				01
	TR101	**V3033500**	Digital Transistor	DTC143XKA TP				01
	X101	**VS486900**	Quartz Crystal Unit	8.0MHz SMD-49				03
	X103	**VR870700**	Quartz Crystal Unit	10MHz SMD-49				04
*		**V6468600**	Circuit Board	DM2K LRG (CRCOM)		(V628790)(XZ033A0)		
*		**V6468700**	Circuit Board	DM2K SML (CRCOM)		(V628790)(XZ033A0)		
*		**V7539700**	Cannon Angle				4	
	157	**--**	Jumper Wire	0.55		(VA07890)		
	C001	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	-004	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C101	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C102	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C103	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C104	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C105	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C106	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C107	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C108	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C201	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C202	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C203	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C204	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C205	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C206	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C207	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C208	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C301	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C302	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C303	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C304	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C305	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C306	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C307	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C308	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C309	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C310	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C311	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C312	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C313	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C314	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C401	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C402	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C403	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C404	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C405	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C406	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C407	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C408	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C411	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C412	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C413	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C414	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	CN001	**VB994900**	Base Post Connector	MQ 9P TE				01
	CN002	**VB994900**	Base Post Connector	MQ 9P TE				01
	EM001	**FZ006970**	LC Filter	MTY223NBTBM				02
	-004	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM101	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM102	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM201	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM202	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM301	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM302	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM401	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM402	**FZ006920**	LC Filter	MTB271KBTBM				01
	IC101	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC201	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC301	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC302	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC401	**XP844A00**	IC	NJM4556AL		OP AMP		02
	JK101	**VS762900**	Cannon Connector	NC3MAHR		CONTROL ROOM LARGE L		03
	JK201	**VS762900**	Cannon Connector	NC3MAHR		MONITOR OUT LARGE R		03
	JK301	**VS762900**	Cannon Connector	NC3MAHR		CONTROL ROOM SMALL L		03
	JK401	**VS762900**	Cannon Connector	NC3MAHR		MONITOR OUT SMALL R		03
	R101	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R102	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R103	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R104	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R105	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R106	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R107	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R108	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R109	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R110	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R111	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R112	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R113	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R114	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R115	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R116	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R201	**HF454390**	Carbon Resistor	39.0 1/4 J				01

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R202	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R203	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R204	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R205	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R206	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R207	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R208	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R209	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R210	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R211	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R212	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R213	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R214	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R215	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R216	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R303	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R304	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R305	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R306	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R307	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R308	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R309	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R310	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R311	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R312	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R313	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R314	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R315	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R316	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R317	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R318	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R319	**HB025470**	Metal Film Resistor	470.0 1/4 F				
	R403	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R404	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R405	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R406	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R407	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R408	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R409	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R410	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R411	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R412	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R413	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R414	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R415	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R416	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R417	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R418	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R419	**HB025470**	Metal Film Resistor	470.0 1/4 F				
	TR101	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR102	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR201	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR202	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR301	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR302	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR401	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR402	**VK432900**	Transistor	2SD1915(F) S,T				01
	VR301	**VQ901400**	Rotary Variable Resistor	A20Kx2 RK14K12B		SMALL TRIM		03
*		**V6285500**	Circuit Board	DM2K DA1		(XZ021B0)		
		V5274300	Jack Holder				2	01
		--	Earth Film-DA1			(V907440)		
	C001	**UI557470**	Electrolytic Cap.	47.00 35.0V				01
	C002	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C003	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	-006	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C101	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C102	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C103	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
	C104	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C105	**UA353470**	Mylar Capacitor	4700P 50V J				01
C106	**UA353160**	Mylar Capacitor	1600P 50V J				
C107	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-110	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C111	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C112	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C113	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C114	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C201	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C202	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C203	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C204	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C205	**UA353470**	Mylar Capacitor	4700P 50V J				01
C206	**UA353160**	Mylar Capacitor	1600P 50V J				
C207	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-210	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C211	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C212	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C213	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C214	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C301	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C302	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C303	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C304	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C305	**UA353470**	Mylar Capacitor	4700P 50V J				01
C306	**UA353160**	Mylar Capacitor	1600P 50V J				
C307	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-310	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C311	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C312	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C313	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C314	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C401	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C402	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C403	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C404	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C405	**UA353470**	Mylar Capacitor	4700P 50V J				01
C406	**UA353160**	Mylar Capacitor	1600P 50V J				
C407	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-410	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C411	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C412	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C413	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C414	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C501	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C502	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C503	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C504	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C505	**UA353470**	Mylar Capacitor	4700P 50V J				01
C506	**UA353160**	Mylar Capacitor	1600P 50V J				
C507	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-510	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C511	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C512	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C513	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C514	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C601	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C602	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C603	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C604	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C605	**UA353470**	Mylar Capacitor	4700P 50V J				01
C606	**UA353160**	Mylar Capacitor	1600P 50V J				
C607	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-610	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C611	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C612	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C613	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C614	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C701	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C702	**UU168100**	Electrolytic Cap.	100.00 50.0V				01

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C703	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C704	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C705	**UA353470**	Mylar Capacitor	4700P 50V J				01
C706	**UA353160**	Mylar Capacitor	1600P 50V J				
C707	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-710	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C711	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C712	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C713	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C714	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C801	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C802	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
C803	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C804	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C805	**UA353470**	Mylar Capacitor	4700P 50V J				01
C806	**UA353160**	Mylar Capacitor	1600P 50V J				
C807	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
-810	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C811	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C812	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C813	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C814	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C900	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-902	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C903	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C904	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-906	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C907	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C908	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C909	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C910	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-912	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C913	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-915	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C916	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C917	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C918	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C919	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-921	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C922	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-924	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C925	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C926	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C927	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C928	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-930	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C931	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-933	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C934	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C935	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C936	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C937	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C938	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C939	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
-942	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
CN001	**VK027300**	Wire Trap	52151 14P SE				01
CN901	**VU421600**	Wire Trap	52151 16P SE				01
D001	**VF195600**	Diode	11ES4 TA1				01
-004	**VF195600**	Diode	11ES4 TA1				01
EM001	**FZ007070**	LC Filter	MTX222MBTBM				01
EM002	**FZ006970**	LC Filter	MTY223NBTBM				02
-005	**FZ006970**	LC Filter	MTY223NBTBM				02
EM101	**FZ006920**	LC Filter	MTB271KBTBM				01
EM102	**FZ006920**	LC Filter	MTB271KBTBM				01
EM201	**FZ006920**	LC Filter	MTB271KBTBM				01
EM202	**FZ006920**	LC Filter	MTB271KBTBM				01
EM301	**FZ006920**	LC Filter	MTB271KBTBM				01
EM302	**FZ006920**	LC Filter	MTB271KBTBM				01
EM401	**FZ006920**	LC Filter	MTB271KBTBM				01
EM402	**FZ006920**	LC Filter	MTB271KBTBM				01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	EM501	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM502	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM601	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM602	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM701	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM702	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM801	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM802	**FZ006920**	LC Filter	MTB271KBTBM				01
	IC101	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC102	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC201	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC202	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC301	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC302	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC401	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC402	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC501	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC502	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC601	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC602	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC701	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC702	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC801	**XF291A00**	IC	UPC4570G2		OP AMP		03
	IC802	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC900	**XM182A00**	IC	TC7S04F		INVERTER		01
	IC901	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC902	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC903	**XW029A00**	IC	AK4393-VF-E2		DAC		07
	-906	**XW029A00**	IC	AK4393-VF-E2		DAC		07
	IC907	**XJ598A00**	IC	NJM78L05UA		REGULATOR +5V		02
	-910	**XJ598A00**	IC	NJM78L05UA		REGULATOR +5V		02
	JK101	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 1		01
	JK201	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 2		01
	JK301	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 3		01
	JK401	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 4		01
	JK501	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 5		01
	JK601	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 6		01
	JK701	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 7		01
	JK801	**VS056300**	Phone Jack	HLJ7001-01		OMNI OUT 8		01
	L901	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	-910	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	R001	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R002	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R003	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R004	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R005	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R006	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R007	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R008	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R009	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R010	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
	R011	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
*	R101	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R102	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R104	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R105	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R107	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R108	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R109	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R110	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R111	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R112	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R113	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R114	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R115	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R116	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R117	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R118	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R119	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R120	**HF454750**	Carbon Resistor	75.0 1/4 J				01

❇: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R121	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R122	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R123	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R124	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R125	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R126	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R201	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R202	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R204	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R205	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R207	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R208	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R209	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R210	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R211	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R212	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R213	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
*	R214	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R215	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R216	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R217	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R218	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R219	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R220	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R221	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R222	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R223	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R224	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R225	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R226	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R301	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R302	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R304	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R305	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R307	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R308	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R309	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R310	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R311	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R312	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R313	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R314	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R315	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R316	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R317	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R318	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R319	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R320	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R321	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R322	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R323	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R324	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R325	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R326	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R401	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R402	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R404	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R405	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R407	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R408	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R409	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R410	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R411	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R412	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R413	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R414	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R415	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R416	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R417	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R418	**HB027160**	Metal Film Resistor	16.0K 1/4 F				

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R419	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R420	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R421	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R422	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R423	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R424	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R425	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R426	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R501	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R502	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R504	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R505	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R507	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R508	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R509	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R510	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R511	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R512	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R513	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R514	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R515	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R516	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R517	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R518	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R519	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R520	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R521	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R522	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R523	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R524	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R525	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R526	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R601	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R602	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R604	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R605	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R607	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R608	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R609	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R610	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R611	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R612	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R613	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R614	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R615	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R616	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R617	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R618	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R619	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R620	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R621	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R622	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R623	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R624	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R625	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R626	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R701	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R702	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R704	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R705	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R707	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R708	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R709	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R710	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R711	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R712	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R713	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R714	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R715	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R716	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	R717	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R718	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R719	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R720	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R721	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R722	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R723	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R724	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R725	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R726	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
*	R801	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R802	**HB027150**	Metal Film Resistor	15.0K 1/4 F				
*	R804	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R805	**HB026680**	Metal Film Resistor	6.8K 1/4 F				
*	R807	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R808	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R809	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R810	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R811	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R812	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R813	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R814	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R815	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R816	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R817	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R818	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R819	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R820	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R821	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R822	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R823	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R824	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R825	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R826	**HB026390**	Metal Film Resistor	3.9K 1/4 F				
	R901	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-910	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R911	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R912	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	SW101	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW201	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW301	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW401	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW501	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW601	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW701	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	SW801	**VN316300**	Slide Switch	SSSS2-22-01		+4dB <-> +18dB		02
	TR001	**VJ927100**	Transistor	2SC2712 Y				01
	TR002	**VJ927100**	Transistor	2SC2712 Y				01
	TR003	**VQ395600**	Transistor	2SA1052 B,C				01
	TR004	**VG013300**	Transistor	2SB1132 82-390				01
	TR101	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR102	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR201	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR202	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR301	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR302	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR401	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR402	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR501	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR502	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR601	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR602	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR701	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR702	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR801	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR802	**VK432900**	Transistor	2SD1915(F) S,T				01
*		**V6285600**	Circuit Board	DM2K DA2		(XZ022B0)		
	C001	**UR868100**	Electrolytic Cap.	100.00 50.0V				01
	C002	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C003	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C004	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C005	**V5829300**	Electrolytic Cap. (chip)	100 16V 16SG100M+T				04
C006	**V5829300**	Electrolytic Cap. (chip)	100 16V 16SG100M+T				04
C007	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C008	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
C103	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C104	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C105	**UA353470**	Mylar Capacitor	4700P 50V J				01
C106	**UA353160**	Mylar Capacitor	1600P 50V J				
C107	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C108	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C109	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C110	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C111	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C112	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C113	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
-115	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C116	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C117	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C151	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C152	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C153	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C154	**UA353220**	Mylar Capacitor	2200P 50V J				01
C155	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C156	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C157	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C203	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C204	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C205	**UA353470**	Mylar Capacitor	4700P 50V J				01
C206	**UA353160**	Mylar Capacitor	1600P 50V J				
C207	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C208	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C209	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C210	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C211	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C212	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C213	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
-215	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C251	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C252	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C253	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C254	**UA353220**	Mylar Capacitor	2200P 50V J				01
C255	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C256	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C303	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C304	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C305	**UA353470**	Mylar Capacitor	4700P 50V J				01
C306	**UA353160**	Mylar Capacitor	1600P 50V J				
C307	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C308	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C309	**UN847470**	Electrolytic Cap.-BP	47.00 25.0V				01
C351	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C352	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C353	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C354	**UA353220**	Mylar Capacitor	2200P 50V J				01
C355	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C356	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C357	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C403	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C404	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C405	**UA353470**	Mylar Capacitor	4700P 50V J				01
C406	**UA353160**	Mylar Capacitor	1600P 50V J				
C407	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C408	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C409	**UN847470**	Electrolytic Cap.-BP	47.00 25.0V				01
C451	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C452	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C453	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C454	**UA353220**	Mylar Capacitor	2200P 50V J				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C455	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C456	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C503	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C504	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C505	**UA353470**	Mylar Capacitor	4700P 50V J				01
C506	**UA353160**	Mylar Capacitor	1600P 50V J				
C507	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C508	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C509	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C551	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C552	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C553	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J				01
C554	**UA353220**	Mylar Capacitor	2200P 50V J				01
C555	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C556	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C557	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C603	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C604	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C605	**UA353470**	Mylar Capacitor	4700P 50V J				01
C606	**UA353160**	Mylar Capacitor	1600P 50V J				
C607	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C608	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C609	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C703	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C704	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C705	**UA353470**	Mylar Capacitor	4700P 50V J				01
C706	**UA353160**	Mylar Capacitor	1600P 50V J				
C707	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C708	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C709	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C803	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C804	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C805	**UA353470**	Mylar Capacitor	4700P 50V J				01
C806	**UA353160**	Mylar Capacitor	1600P 50V J				
C807	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C808	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
C809	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C901	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C902	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C903	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C904	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-906	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C907	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C908	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C909	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C910	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-912	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C913	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-915	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C916	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C917	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C918	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C919	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-921	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C922	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-924	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C925	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C926	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C927	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C928	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
-930	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C931	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-933	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C934	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C935	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C936	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C937	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C938	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C939	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
-942	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C943	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C950	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C951	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C952	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C953	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C954	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C955	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C956	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C957	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C958	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C959	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-961	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C962	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C963	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C964	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C965	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C966	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C967	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C968	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C969	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C970	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-972	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C973	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C974	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C975	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C976	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C977	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C978	**UU167100**	Electrolytic Cap.	10.00 50.0V				01
C979	**US135220**	Ceramic Capacitor-F (chip)	0.2200 16V Z				01
C980	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
C981	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C982	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
CN001	**VI879500**	Cable Holder	51048 17P TE				01
CN100	**VB390200**	Connector Base Post	PH 6P TE				01
CN101	**VI378700**	Connector Socket	MQ 9P SE				01
CN151	**VI378700**	Connector Socket	MQ 9P SE				01
CN201	**VI378700**	Connector Socket	MQ 9P SE				01
CN301	**VI378700**	Connector Socket	MQ 9P SE				01
CN501	**VI379200**	Connector Socket	MQ 12P SE				02
CN701	**VI379200**	Connector Socket	MQ 12P SE				02
CN901	**VK025800**	Wire Trap	52147 14P TE				01
CN902	**VK025500**	Wire Trap	52147 11P TE				01
D001	**VF195600**	Diode	11ES4 TA1				01
-004	**VF195600**	Diode	11ES4 TA1				01
D101	**VS201100**	Diode	D1F60				01
D201	**VS201100**	Diode	D1F60				01
EM001	**FZ007070**	LC Filter	MTX222MBTBM				01
-005	**FZ006970**	LC Filter	MTY223NBTBM				02
IC101	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC102	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC151	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC201	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC251	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC301	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC351	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC401	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC451	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC501	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC551	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC601	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC701	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC801	**XF291A00**	IC	UPC4570G2		OP AMP		03
IC901	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
IC902	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
IC903	**XW029A00**	IC	AK4393-VF-E2		DAC		07
-906	**XW029A00**	IC	AK4393-VF-E2		DAC		07
IC907	**XJ598A00**	IC	NJM78L05UA		REGULATOR +5V		02
-910	**XJ598A00**	IC	NJM78L05UA		REGULATOR +5V		02
IC911	**XM182A00**	IC	TC7S04F		INVERTER		01
* IC951	**XZ298A00**	IC	AK5393-VS-E2		ADC		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	-953	**XZ298A00**	IC	AK5393-VS-E2		ADC		
	L901	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	-915	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	R001	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R002	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R003	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R004	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R005	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R006	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R007	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R008	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R009	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R010	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
	R011	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R101	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R102	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R104	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R105	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R107	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R108	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R109	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R110	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R111	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
*	R112	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R113	**HB025470**	Metal Film Resistor	470.0 1/4 F				
	R115	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R116	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	-120	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R121	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R151	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R152	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R153	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-155	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	R156	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R157	**HF454470**	Carbon Resistor	47.0 1/4 J				01
*	R158	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R159	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R160	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R201	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R202	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R204	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R205	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R207	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R208	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R209	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R210	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R211	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
*	R212	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R213	**HB025470**	Metal Film Resistor	470.0 1/4 F				
	R215	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R216	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	-220	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R221	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R251	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R252	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R253	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-255	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	R256	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R257	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R301	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R302	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R304	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R305	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R307	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R308	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R309	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R310	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R311	**HF454100**	Carbon Resistor	10.0 1/4 J				01
	R351	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R352	**HB027100**	Metal Film Resistor	10.0K 1/4 F				

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R353	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-355	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	R356	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R357	**HF454470**	Carbon Resistor	47.0 1/4 J				01
*	R358	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R359	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R360	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R401	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R402	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R404	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R405	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R407	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R408	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R409	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R410	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R411	**HF454100**	Carbon Resistor	10.0 1/4 J				01
	R451	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R452	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R453	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-455	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	R456	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R457	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R501	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R502	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R504	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R505	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R507	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R508	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R509	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R510	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R551	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R552	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R553	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	-555	**HB026220**	Metal Film Resistor	2.2K 1/4 F				01
	R556	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R557	**HF454470**	Carbon Resistor	47.0 1/4 J				01
*	R558	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
*	R559	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
*	R560	**HB026270**	Metal Film Resistor	2.7K 1/4 F				
	R601	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R602	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R604	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R605	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R607	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R608	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R609	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R610	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R701	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R702	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R704	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R705	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R707	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R708	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R709	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R710	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R801	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
	R802	**HB026330**	Metal Film Resistor	3.3K 1/4 F				
*	R804	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R805	**HB026750**	Metal Film Resistor	7.5K 1/4 F				
*	R807	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
*	R808	**HB026100**	Metal Film Resistor	1.0K 1/4 F				
	R809	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R810	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R901	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-912	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R913	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R914	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R915	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R950	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-967	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R968	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	-973	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	RY101	**VU685600**	Relay	DC NA- 5 W-K				06
	RY201	**VU685600**	Relay	DC NA- 5 W-K				06
	TR001	**VJ927100**	Transistor	2SC2712 Y				01
	TR002	**VJ927100**	Transistor	2SC2712 Y				01
	TR003	**VQ395600**	Transistor	2SA1052 B,C				01
	TR004	**VG013300**	Transistor	2SB1132 82-390				01
	TR101	**VV556400**	Transistor	2SC2412K Q,R,S				01
	TR201	**VV556400**	Transistor	2SC2412K Q,R,S				01
*	W001	**V8392800**	Jumper Wire	FVP=2.0C26SB17-520				
*		**V6285200**	Circuit Board	DM2K DSP		(XZ018B0)		
	C001	**UF017470**	Electrolytic Cap. (chip)	47 6.3V				01
	C002	**UF017470**	Electrolytic Cap. (chip)	47 6.3V				01
	C003	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-043	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-055	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C056	**UF017470**	Electrolytic Cap. (chip)	47 6.3V				01
	C057	**UB445330**	Monolithic Ceramic Cap.	F 0.330 16V Z				01
	C058	**VJ903700**	Monolithic Ceramic Cap.	CH 560P 50V J				01
	C059	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C060	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C061	**UB445330**	Monolithic Ceramic Cap.	F 0.330 16V Z				01
	C062	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C063	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-066	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C067	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C068	**UF128470**	Electrolytic Cap. (chip)	470 10V UUR1A4				02
	C069	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C070	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C071	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C072	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C073	**V6200900**	Capacitor	1.0000 16V M				01
	C074	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C075	**UF128470**	Electrolytic Cap. (chip)	470 10V UUR1A4				02
	C076	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C077	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C078	**UF128470**	Electrolytic Cap. (chip)	470 10V UUR1A4				02
	C079	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C080	**UB014220**	Monolithic Ceramic Cap.	B 0.022 50V K				01
	C081	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C082	**V6200900**	Capacitor	1.0000 16V M				01
	C083	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C084	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C085	**UF128470**	Electrolytic Cap. (chip)	470 10V UUR1A4				02
	C086	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-091	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C092	**VR327300**	Mylar Capacitor (chip)	0.0820 16V J				01
	C093	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-096	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C097	**UF118330**	Electrolytic Cap. (chip)	330 6.3V UUR0J3				01
	C098	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C099	**VJ903700**	Monolithic Ceramic Cap.	CH 560P 50V J				01
	C100	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-102	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C103	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C104	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C105	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C106	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-145	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C146	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C147	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C148	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C149	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-187	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C188	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C189	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C190	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C191	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
-229	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C230	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
C231	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C232	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
-271	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C272	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
C273	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C274	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
C275	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-314	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C315	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
C316	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-391	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C398	**UB445330**	Monolithic Ceramic Cap.	F 0.330 16V Z				01
C399	**UB445330**	Monolithic Ceramic Cap.	F 0.330 16V Z				01
C401	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-561	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C571	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C572	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C573	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C574	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C575	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C576	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C577	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C578	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C579	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C580	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C581	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C582	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C583	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C584	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C585	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C586	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C587	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C588	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C589	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C590	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C591	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C592	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C593	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C594	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C595	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C596	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C597	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C598	**VR328100**	Mylar Capacitor (chip)	.00022 50V J				01
C599	**VP864400**	Mylar Capacitor (chip)	0.0047 16V J				01
C600	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-706	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C801	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-806	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C851	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-855	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C856	**FG652100**	Ceramic Capacitor	100P 50V				01
C901	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-909	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C951	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C952	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C954	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C955	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C961	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
-963	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C964	**UF119100**	Electrolytic Cap. (chip)	1000 6.3V UUR0J1				02
C965	**UF119100**	Electrolytic Cap. (chip)	1000 6.3V UUR0J1				02
C966	**UB051680**	Monolithic Ceramic Cap.	SL 68P 50V J				01
C967	**UB012330**	Monolithic Ceramic Cap.	B 330P 50V K				01
C968	**UB052470**	Monolithic Ceramic Cap.	SL 470P 50V J				01
C969	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
C970	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
C971	**UB013100**	Monolithic Ceramic Cap.	B 1000P 50V K				01
C972	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C973	**UB245220**	Monolithic Ceramic Cap.	F 0.220 25V Z				01
*	C974	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C975	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C976	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
*	-978	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
	C979	**UB051680**	Monolithic Ceramic Cap.	SL 68P 50V J				01
	C980	**UB012330**	Monolithic Ceramic Cap.	B 330P 50V K				01
	C981	**UB052470**	Monolithic Ceramic Cap.	SL 470P 50V J				01
	C982	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C983	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C984	**UB013100**	Monolithic Ceramic Cap.	B 1000P 50V K				01
	C985	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C986	**UB245220**	Monolithic Ceramic Cap.	F 0.220 25V Z				01
*	C987	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C988	**V8878500**	Electrolytic Cap. (chip)	150 16V				
*	C989	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
*	-991	**V8878900**	Electrolytic Cap. (chip)	330 6.3V				
	C992	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
*	CN104	**V4510100**	Pin Header	HIF6A 80P TE				
*	CN105	**V4510100**	Pin Header	HIF6A 80P TE				
	CN801	**VP327200**	Connector, FFC	52045 30P TE				01
	-803	**VP327200**	Connector, FFC	52045 30P TE				01
	CN804	**VP127700**	Connector, FFC	52045 24P TE				01
	-806	**VP127700**	Connector, FFC	52045 24P TE				01
	CN807	**VO022100**	Connector, FFC	52045 40P TE				02
	CN901	**VQ048500**	Connector, FFC	52045 36P TE				02
	CN902	**VO022100**	Connector, FFC	52045 40P TE				02
	CN903	**VO022100**	Connector, FFC	52045 40P TE				02
*	CN904	**VQ048100**	Connector, FFC	52045 32P TE				
	CN905	**VF667600**	Wire Trap	52147 15P TE				01
	CN951	**VF728200**	Wire Trap	52147 10P TE				01
	CN952	**VK025600**	Wire Trap	52147 12P TE				01
	CN953	**VF728200**	Wire Trap	52147 10P TE				01
	CN954	**VK025600**	Wire Trap	52147 12P TE				01
	CN955	**VJ861600**	Wire Trap	52147 16P TE				01
	CN956	**VK025800**	Wire Trap	52147 14P TE				01
	CN957	**VK025500**	Wire Trap	52147 11P TE				01
	CN961	**LB932090**	Base Post Connector	VH 9P TE				01
	CN962	**LB932100**	Base Post Connector	VH 10P TE				02
	D051	**VT332900**	Diode	1SS355 TE-17				01
	D052	**VT332900**	Diode	1SS355 TE-17				01
	D961	**V2376600**	Diode	RB500V-40				01
	-964	**VU445900**	Diode	RB050L-40				02
	D965	**VT332900**	Diode	1SS355 TE-17				01
	D966	**VT332900**	Diode	1SS355 TE-17				01
	EM051	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM052	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM101	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM401	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM961	**FZ006970**	LC Filter	MTY223NBTBM				02
	-964	**FZ006970**	LC Filter	MTY223NBTBM				02
*	FT961	**V8952100**	FET	TPC8009-H				
*	-966	**V8952100**	FET	TPC8009-H				
	IC001	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC002	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	-004	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC005	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-009	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC010	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	IC011	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	IC012	**XS775A00**	IC	TC7SH04FU		INVERTER		01
	IC013	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-020	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC021	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	IC022	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	IC023	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	-027	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC028	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	-031	**XU229A00**	IC	TC74LVX4245FS		TRANSCEIVER		04
	IC032	**XY537A00**	IC	TC74VHC32F(EL)		OR		01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	IC051	**XW633A00**	IC	TC7SH32FU(TE85L)		OR		01
	IC052	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-054	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC055	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
*	IC056	**XZ334A00**	IC	XCS40-3PQ240C		FPGA		
	IC057	**XW876A00**	IC	TC74VHC14F-EL		INVERTER		01
	IC058	**XT229A00**	IC	TC74VHC00F		NAND		01
	IC059	**XW422A00**	IC	M51953AFP		SYSTEM RESET		01
	IC060	**IS405300**	IC	HD74LV4053AFPEL		MULTIPLEXER		02
	IC061	**XV064A00**	IC	TLC2932IPWR		PLL		06
	IC062	**IS405300**	IC	HD74LV4053AFPEL		MULTIPLEXER		02
	IC063	**XV064A00**	IC	TLC2932IPWR		PLL		06
	IC064	**XG948E00**	IC	YM3436DK		DIR2		11
*	IC065	**X2855A00**	IC	XC17S40-PD8		PROM		
	IC066	**XS775A00**	IC	TC7SH04FU		INVERTER		01
	IC067	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-069	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC070	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	-072	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC073	**XW876A00**	IC	TC74VHC14F-EL		INVERTER		01
	IC074	**XW422A00**	IC	M51953AFP		SYSTEM RESET		01
	IC101	**XZ693A00**	IC	YSS919-H		DSP7		15
	-114	**XZ693A00**	IC	YSS919-H		DSP7		15
	IC115	**XW874A00**	IC	HY57V161610DTC-8		SDRAM 16M		08
	-125	**XW874A00**	IC	HY57V161610DTC-8				08
*	IC115	**X2360A00**	IC	K4S161622D-TC80				
*	-125	**X2360A00**	IC	K4S161622D-TC80				
*	IC115	**X2590A00**	IC	W981616BH-7				
*	-125	**X2590A00**	IC	W981616BH-7				
	IC126	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC127	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC128	**XW875A00**	IC	TC74VHC74F-EL		D-FF		01
	IC401	**XV988A00**	IC	YSS910-S		DSP6		10
	-408	**XV988A00**	IC	YSS910-S		DSP6		10
	IC409	**XV077B00**	IC	MSM514260E-60JS		DRAM 4M		
	-424	**XV077B00**	IC	MSM514260E-60JS		DRAM 4M		
	IC425	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-428	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC429	**XT812A00**	IC	TC74VHC11F(EL)		AND		01
	-432	**XT812A00**	IC	TC74VHC11F(EL)		AND		01
*	IC601	**X2162A00**	IC	MBCG61594-128		ATSC2		
*	-605	**X2162A00**	IC	MBCG61594-128		ATSC2		
	IC606	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-608	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC609	**XT475A00**	IC	TC74VHC157F(EL)		MULTIPLEXER		02
	-614	**XT475A00**	IC	TC74VHC157F(EL)		MULTIPLEXER		02
	IC615	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-620	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
*	IC651	**X2162A00**	IC	MBCG61594-128		ATSC2		
*	-655	**X2162A00**	IC	MBCG61594-128		ATSC2		
	IC656	**XT475A00**	IC	TC74VHC157F(EL)		MULTIPLEXER		02
	-661	**XT475A00**	IC	TC74VHC157F(EL)		MULTIPLEXER		02
*	IC701	**IS404010**	IC	SN74LV4040ANSR		COUNTER		
	IC702	**XM332A00**	IC	TC74VHC04F(EL)		INVERTER		01
	IC703	**XU240A00**	IC	YM6604C-S		ACIA		11
	IC704	**XT229A00**	IC	TC74VHC00F		NAND		01
	IC705	**XW313A00**	IC	TC74VHC125F		BUFFER		02
	IC801	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC802	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC803	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC804	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC805	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC806	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC851	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC852	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC853	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	-855	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC901	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC902	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC903	**XY961A00**	IC	74VHC541SJX		BUFFER		03

✻: New Parts

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NOTE: Two or more makers' mixture presupposes that it is improper into the same circuit board. (IC115-125)

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	IC904	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC905	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC906	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC907	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC908	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC909	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC951	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC952	**XY961A00**	IC	74VHC541SJX		BUFFER		03
	IC953	**XV242A00**	IC	TC74VHCT245AF		TRANSCEIVER		03
	IC955	**XY537A00**	IC	TC74VHC32F(EL)		OR		01
*	IC961	**X2005A00**	IC	LTC1735CS		DC-DC CONVERTER		
*	IC962	**X2005A00**	IC	LTC1735CS		DC-DC CONVERTER		
*	L039	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L040	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L041	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L042	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L043	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L044	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L045	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L046	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L047	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L048	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L049	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L050	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	L051	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-055	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L056	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L057	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L058	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L059	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-099	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L101	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L401	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L801	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-805	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L806	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	-808	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L809	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-818	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L819	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	L820	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L821	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-825	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L851	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L852	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-856	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L857	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	L858	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	L859	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-878	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L901	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-945	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L951	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-982	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L991	**V7758900**	Coil	CDEP134-H-2R7 2.7u				
*	L992	**V7759000**	Coil	CDEP134-H-4R8 4.8u				
	R001	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R002	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	-011	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R052	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R053	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R054	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R055	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R056	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	R057	**RD256150**	Carbon Resistor (chip)	1.5K 0.1 J				01
	R058	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-060	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R061	**VI195300**	Metal Film Resistor (chip)	1.5K 1/10 D				01
	R062	**VI195500**	Metal Film Resistor (chip)	1.8K 1/10 D				01
	R063	**VI193700**	Metal Film Resistor (chip)	330.0 1/10 D				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R064	**VI194900**	Metal Film Resistor (chip)	1.0K 1/10 D				01
	R065	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R066	**VI195300**	Metal Film Resistor (chip)	1.5K 1/10 D				01
	R067	**VI195500**	Metal Film Resistor (chip)	1.8K 1/10 D				01
	R068	**VI193700**	Metal Film Resistor (chip)	330.0 1/10 D				01
	R069	**VI196000**	Metal Film Resistor (chip)	3.0K 1/10 D				01
	R071	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R072	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R073	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R074	**VI194600**	Metal Film Resistor (chip)	750.0 1/10 D				01
	R075	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R076	**VI196100**	Metal Film Resistor (chip)	3.3K 1/10 D				01
	R077	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R078	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R079	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R080	**RD256150**	Carbon Resistor (chip)	1.5K 0.1 J				01
	R081	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	R082	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R083	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R084	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R101	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-104	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R105	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	-108	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R109	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-118	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R119	**VI195700**	Metal Film Resistor (chip)	2.2K 1/10 D				01
	-132	**VI195700**	Metal Film Resistor (chip)	2.2K 1/10 D				01
	R401	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	-404	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R701	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-703	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R961	**RD257330**	Carbon Resistor (chip)	33.0K 0.1 J				01
	R962	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R963	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R964	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R965	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R966	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R967	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	R968	**V8106300**	Carbon Resistor (chip)	5.1				
	R969	**RD257160**	Carbon Resistor (chip)	16.0K 0.1 J				01
	R970	**RD256750**	Carbon Resistor (chip)	7.5K 0.1 J				01
	R971	**RD257330**	Carbon Resistor (chip)	33.0K 0.1 J				01
	R972	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R973	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R974	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R975	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R976	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R977	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
*	R978	**V8106400**	Carbon Resistor (chip)	6.8				
	R979	**RD257160**	Carbon Resistor (chip)	16.0K 0.1 J				01
	R980	**RD256510**	Carbon Resistor (chip)	5.1K 0.1 J				01
	R981	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA001	**RE047100**	Resistor Array	10KX4				01
	-043	**RE047100**	Resistor Array	10KX4				01
	RA051	**RE047100**	Resistor Array	10KX4				01
	-067	**RE047100**	Resistor Array	10KX4				01
	RA701	**RE047100**	Resistor Array	10KX4				01
	RA702	**RE047100**	Resistor Array	10KX4				01
	RA801	**RE047100**	Resistor Array	10KX4				01
	-804	**RE047100**	Resistor Array	10KX4				01
	RA807	**RE047100**	Resistor Array	10KX4				01
	-810	**RE047100**	Resistor Array	10KX4				01
	RA851	**RE047100**	Resistor Array	10KX4				01
	-854	**RE047100**	Resistor Array	10KX4				01
	RA857	**RE047100**	Resistor Array	10KX4				01
	-860	**RE047100**	Resistor Array	10KX4				01
	RA861	**RE044680**	Resistor Array	68X4				01
	-864	**RE044680**	Resistor Array	68X4				01
	RA901	**RE044220**	Resistor Array	22X4				01

❇: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	RA902	**RE044220**	Resistor Array	22X4				01
	RA903	**RE047100**	Resistor Array	10KX4				01
	-905	**RE047100**	Resistor Array	10KX4				01
	RA907	**RE047100**	Resistor Array	10KX4				01
	RA908	**RE047100**	Resistor Array	10KX4				01
	RA909	**RE044220**	Resistor Array	22X4				01
	RA910	**RE044220**	Resistor Array	22X4				01
	RA911	**RE047100**	Resistor Array	10KX4				01
	RA913	**RE047100**	Resistor Array	10KX4				01
	RA914	**RE047100**	Resistor Array	10KX4				01
	RA951	**RE047100**	Resistor Array	10KX4				01
	-954	**RE047100**	Resistor Array	10KX4				01
	RA957	**RE047100**	Resistor Array	10KX4				01
	SC065	**VV047100**	IC Socket	DICF-8CS-E				01
	TP066	**VE340300**	Test Pin	IRS-1169				01
*	X051	**V8904400**	Quartz Crystal Unit	45.1584MHz DSO751S				
*	X052	**V8904500**	Quartz Crystal Unit	49.152MHz DSO751S				
	X101	**VZ156100**	Quartz Crystal Unit	60MHz DSO751S				06
	X401	**VZ156100**	Quartz Crystal Unit	60MHz DSO751S				06
*		**V6286600**	Circuit Board	DM2K FD1		(XZ029B0)		
		EC030030	Flat Head Screw	3.0X6 MFZN2BL			32	01
*		**V6316100**	Fader Angle				2	
	C101	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-140	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C141	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C142	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C143	**UF128220**	Electrolytic Cap. (chip)	220 10V				01
	C144	**UF027470**	Electrolytic Cap. (chip)	47 10V				01
	C145	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C146	**UB052100**	Monolithic Ceramic Cap.	SL 100P 50V J				01
	-149	**UB052100**	Monolithic Ceramic Cap.	SL 100P 50V J				01
	C150	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C151	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C152	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C153	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C154	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C155	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C156	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C157	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C158	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C159	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C160	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C161	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C162	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C163	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C164	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C165	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C166	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C167	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C168	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C169	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C170	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C171	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C172	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C173	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C174	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C175	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C176	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C177	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C178	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C179	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C180	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C181	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C182	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C183	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C184	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C185	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C186	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C187	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C188	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C189	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C190	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C191	**UB013270**	Monolithic Ceramic Cap.	B 2700P 50V K				01
	C192	**UB012270**	Monolithic Ceramic Cap.	B 270P 50V K				01
	C193	**UB013150**	Monolithic Ceramic Cap.	B 1500P 50V K				01
	C194	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C195	**UB052470**	Monolithic Ceramic Cap.	SL 470P 50V J				01
	C212	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C213	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	CN101	**VO022300**	Connector, FFC	52044 40P SE				02
	CN102	**VI879400**	Cable Holder	51048 16P TE				01
	D101	**VT332900**	Diode	1SS355 TE-17				01
	-103	**VT332900**	Diode	1SS355 TE-17				01
	DA121	**VV556300**	Diode Array	DAN217 0.3A X2				01
	DA122	**VV556300**	Diode Array	DAN217 0.3A X2				01
*	DA123	**V8974000**	Zener Diode	NNCD6.2MF 6.2V SMD				
*	-138	**V8974000**	Zener Diode	NNCD6.2MF 6.2V SMD				
	EM101	**FZ006970**	LC Filter	MTY223NBTBM				02
	-107	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC101	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	-103	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC104	**XY198A00**	IC	MM74HC273SJX		D-FF		03
	-109	**XY198A00**	IC	MM74HC273SJX		D-FF		03
	IC110	**XS790A00**	IC	TC74HC4052AF		MULTIPLEXER		02
	IC111	**XS790A00**	IC	TC74HC4052AF		MULTIPLEXER		02
	IC112	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC113	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC114	**XW618A00**	IC	TA7291F		MOTOR DRIVER		02
	-129	**XW618A00**	IC	TA7291F		MOTOR DRIVER		02
	IC130	**XH610A00**	IC	HD74LS06FPEL		INVERTER		02
	-132	**XH610A00**	IC	HD74LS06FPEL		INVERTER		02
	IC133	**XT618A00**	IC	NJM2068V(TE1)		OP AMP		01
	-136	**XT618A00**	IC	NJM2068V(TE1)		OP AMP		01
	IC137	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC138	**XW105A00**	IC	MM74HC00SJX		NAND		01
*	IC139	**IS405100**	IC	HD74LV4051AFPEL		MULTIPLEXER		
*	IC140	**IS405100**	IC	HD74LV4051AFPEL		MULTIPLEXER		
	R101	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-104	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R105	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R106	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R107	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R108	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R109	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R110	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R111	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R112	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R113	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R114	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R115	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R116	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R117	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R118	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R119	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R120	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R121	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R122	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R123	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R124	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R125	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R126	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R127	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R128	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R129	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R130	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R131	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R132	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R133	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R134	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01

❇: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R135	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R136	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R137	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R138	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R139	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R140	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R141	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R142	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R143	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R144	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R145	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R146	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R147	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R148	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R149	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R150	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R151	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R152	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R153	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R154	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R155	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R156	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R157	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R158	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R159	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R160	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R161	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R162	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R163	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R164	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R165	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
R166	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
R167	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
R168	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
R169	**RD256390**	Carbon Resistor (chip)	3.9K 0.1 J				01
R170	**RD256160**	Carbon Resistor (chip)	1.6K 0.1 J				01
R171	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
R172	**RD257120**	Carbon Resistor (chip)	12.0K 0.1 J				01
R173	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
R174	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
R175	**RD256180**	Carbon Resistor (chip)	1.8K 0.1 J				01
R176	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
R177	**RD257750**	Carbon Resistor (chip)	75.0K 0.1 J				01
R178	**RD256150**	Carbon Resistor (chip)	1.5K 0.1 J				01
R179	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01
R180	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
R181	**RD256330**	Carbon Resistor (chip)	3.3K 0.1 J				01
R182	**RD256330**	Carbon Resistor (chip)	3.3K 0.1 J				01
R183	**RD257240**	Carbon Resistor (chip)	24.0K 0.1 J				01
R184	**RD256180**	Carbon Resistor (chip)	1.8K 0.1 J				01
R185	**RD258130**	Carbon Resistor (chip)	130.0K 0.1 J				
R186	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
-188	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
R189	**RD257200**	Carbon Resistor (chip)	20.0K 0.1 J				01
R190	**RD257200**	Carbon Resistor (chip)	20.0K 0.1 J				01
R191	**RD257150**	Carbon Resistor (chip)	15.0K 0.1 J				01
R192	**RD257150**	Carbon Resistor (chip)	15.0K 0.1 J				01
R193	**RD258330**	Carbon Resistor (chip)	330.0K 0.1 J				01
R194	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
R195	**RD256910**	Carbon Resistor (chip)	9.1K 0.1 J				01
R196	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
R197	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
R198	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
R199	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
R200	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
-215	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
R216	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01
-231	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01
RA101	**RE047100**	Resistor Array	10KX4				01
-106	**RE047100**	Resistor Array	10KX4				01

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	VR101	**V6226100**	Slide Pot., Motor Drive	B10K		1 fader		
*	VR102	**V6226100**	Slide Pot., Motor Drive	B10K		2 fader		
*	VR103	**V6226100**	Slide Pot., Motor Drive	B10K		3 fader		
*	VR104	**V6226100**	Slide Pot., Motor Drive	B10K		4 fader		
*	VR105	**V6226100**	Slide Pot., Motor Drive	B10K		5 fader		
*	VR106	**V6226100**	Slide Pot., Motor Drive	B10K		6 fader		
*	VR107	**V6226100**	Slide Pot., Motor Drive	B10K		7 fader		
*	VR108	**V6226100**	Slide Pot., Motor Drive	B10K		8 fader		
*	VR109	**V6226100**	Slide Pot., Motor Drive	B10K		9 fader		
*	VR110	**V6226100**	Slide Pot., Motor Drive	B10K		10 fader		
*	VR111	**V6226100**	Slide Pot., Motor Drive	B10K		11 fader		
*	VR112	**V6226100**	Slide Pot., Motor Drive	B10K		12 fader		
*	VR113	**V6226100**	Slide Pot., Motor Drive	B10K		13 fader		
*	VR114	**V6226100**	Slide Pot., Motor Drive	B10K		14 fader		
*	VR115	**V6226100**	Slide Pot., Motor Drive	B10K		15 fader		
*	VR116	**V6226100**	Slide Pot., Motor Drive	B10K		16 fader		
*	W102	**V9000300**	Jumper Wire	FVP=2.0C26SB16-500				
	ZD101	**VU171800**	Zener Diode	UDZ 4.7BTE-17 4.7V				01
*		**V6286800**	Circuit Board	DM2K FD2		(XZ030B0)		
		EC030030	Flat Head Screw	3.0X6 MFZN2BL			18	01
*		**V6316200**	Fader Angle F	FRONT				
*		**V6660300**	Fader Angle R	REAR				
	C101	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-129	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C130	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C131	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C132	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	C133	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C134	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C135	**UB052100**	Monolithic Ceramic Cap.	SL 100P 50V J				01
	-137	**UB052100**	Monolithic Ceramic Cap.	SL 100P 50V J				01
	C138	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C139	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C140	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C141	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C142	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C143	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C144	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C145	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C146	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C147	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C148	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C149	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C150	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C151	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C152	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C153	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C154	**UF138220**	Electrolytic Cap. (chip)	220 16V UUR1C2				01
	C155	**UF046470**	Electrolytic Cap. (chip)	4.7 25V				01
	C156	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C157	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C158	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C159	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C160	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C161	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C162	**VS029500**	Mylar Capacitor (chip)	0.00047 50V G				
	C163	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C164	**UB051470**	Monolithic Ceramic Cap.	SL 47P 50V J				01
	C165	**UB013270**	Monolithic Ceramic Cap.	B 2700P 50V K				01
	C166	**UB012270**	Monolithic Ceramic Cap.	B 270P 50V K				01
	C167	**UB013150**	Monolithic Ceramic Cap.	B 1500P 50V K				01
	C168	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C169	**UB052470**	Monolithic Ceramic Cap.	SL 470P 50V J				01
	CN101	**VQ046500**	Connector, FFC	52044 36P SE				01
	CN102	**VI879000**	Cable Holder	51048 12P TE				01
	D101	**VT332900**	Diode	1SS355 TE-17				01
	-103	**VT332900**	Diode	1SS355 TE-17				01
	DA101	**VV556300**	Diode Array	DAN217 0.3A X2				01
	-105	**VV556300**	Diode Array	DAN217 0.3A X2				01

❇: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	DA115	**V8974000**	Zener Diode	NNCD6.2MF 6.2V SMD				
*	-123	**V8974000**	Zener Diode	NNCD6.2MF 6.2V SMD				
	EM101	**FZ006970**	LC Filter	MTY223NBTBM				02
	-105	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC101	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	-103	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC104	**XY198A00**	IC	MM74HC273SJX		D-FF		03
	-107	**XY198A00**	IC	MM74HC273SJX		D-FF		03
	IC108	**XS790A00**	IC	TC74HC4052AF		MULTIPLEXER		02
	IC109	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC110	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC111	**XW618A00**	IC	TA7291F		MOTOR DRIVER		02
	-119	**XW618A00**	IC	TA7291F		MOTOR DRIVER		02
	IC120	**XH610A00**	IC	HD74LS06FPEL		INVERTER		02
	IC121	**XH610A00**	IC	HD74LS06FPEL		INVERTER		02
	IC122	**XT618A00**	IC	NJM2068V(TE1)		OP AMP		01
	-125	**XT618A00**	IC	NJM2068V(TE1)		OP AMP		01
	IC126	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC127	**XW105A00**	IC	MM74HC00SJX		NAND		01
*	IC128	**IS405100**	IC	HD74LV4051AFPEL		MULTIPLEXER		
*	IC129	**IS405100**	IC	HD74LV4051AFPEL		MULTIPLEXER		
	R101	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-103	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R104	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R105	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R106	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R107	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R108	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R109	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R110	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R111	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R112	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R113	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R114	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R115	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R116	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R117	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R118	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R119	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R120	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R121	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R122	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R123	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R124	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R125	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R126	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R127	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R128	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R129	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R130	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R131	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R132	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R133	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R134	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R135	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R136	**VC756300**	Metal Oxide Film Resistor	10.0 2W J				01
	R137	**RD256680**	Carbon Resistor (chip)	6.8K 0.1 J				01
	R138	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R139	**RD155100**	Carbon Resistor (chip)	100.0 1/4 J				01
	R140	**RD256390**	Carbon Resistor (chip)	3.9K 0.1 J				01
	R141	**RD256160**	Carbon Resistor (chip)	1.6K 0.1 J				01
	R142	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R143	**RD257120**	Carbon Resistor (chip)	12.0K 0.1 J				01
	R144	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R145	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R146	**RD256180**	Carbon Resistor (chip)	1.8K 0.1 J				01
	R147	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R148	**RD257750**	Carbon Resistor (chip)	75.0K 0.1 J				01
	R149	**RD256150**	Carbon Resistor (chip)	1.5K 0.1 J				01
	R150	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R151	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R152	**RD256330**	Carbon Resistor (chip)	3.3K 0.1 J				01
	R153	**RD256330**	Carbon Resistor (chip)	3.3K 0.1 J				01
	R154	**RD257240**	Carbon Resistor (chip)	24.0K 0.1 J				01
	R155	**RD256180**	Carbon Resistor (chip)	1.8K 0.1 J				01
	R156	**RD258130**	Carbon Resistor (chip)	130.0K 0.1 J				
	R157	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-159	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R160	**RD257200**	Carbon Resistor (chip)	20.0K 0.1 J				01
	R161	**RD257200**	Carbon Resistor (chip)	20.0K 0.1 J				01
	R162	**RD257150**	Carbon Resistor (chip)	15.0K 0.1 J				01
	R163	**RD257150**	Carbon Resistor (chip)	15.0K 0.1 J				01
	R164	**RD258330**	Carbon Resistor (chip)	330.0K 0.1 J				01
	R165	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R166	**RD256910**	Carbon Resistor (chip)	9.1K 0.1 J				01
	R167	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R168	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R169	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R170	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	R171	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-179	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R180	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01
	-188	**RD258150**	Carbon Resistor (chip)	150.0K 0.1 J				01
	RA101	**RE047100**	Resistor Array	10KX4				01
	-106	**RE047100**	Resistor Array	10KX4				01
*	VR101	**V6226100**	Slide Pot., Motor Drive	B10K		17 fader		
*	VR102	**V6226100**	Slide Pot., Motor Drive	B10K		18 fader		
*	VR103	**V6226100**	Slide Pot., Motor Drive	B10K		19 fader		
*	VR104	**V6226100**	Slide Pot., Motor Drive	B10K		20 fader		
*	VR105	**V6226100**	Slide Pot., Motor Drive	B10K		21 fader		
*	VR106	**V6226100**	Slide Pot., Motor Drive	B10K		22 fader		
*	VR107	**V6226100**	Slide Pot., Motor Drive	B10K		23 fader		
*	VR108	**V6226100**	Slide Pot., Motor Drive	B10K		24 fader		
*	VR109	**V6226100**	Slide Pot., Motor Drive	B10K		STEREO fader		
*	W102	**V8412200**	Jumper Wire	FVP=2.0C26SB12-500				
	ZD101	**VU171800**	Zener Diode	UDZ 4.7BTE-17 4.7V				01
*		**V6285900**	Circuit Board	DM2K JK1		(XZ024B0)		
		--	Earth Film-JK1			(V907450)		
	C001	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C002	**UF037220**	Electrolytic Cap. (chip)	22 16V				01
	C003	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-006	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C012	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
*	C022	**V9074200**	Mylar Capacitor (chip)	0.1500 50V J				
*	C023	**V9074200**	Mylar Capacitor (chip)	0.1500 50V J				
	C024	**VS026900**	Mylar Capacitor (chip)	0.0039 16V G				01
	C025	**VS026900**	Mylar Capacitor (chip)	0.0039 16V G				01
	C026	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	-028	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	C031	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-033	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C036	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-038	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C041	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	-043	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
*	C047	**V9074200**	Mylar Capacitor (chip)	0.1500 50V J				
	C048	**VS026900**	Mylar Capacitor (chip)	0.0039 16V G				01
	C049	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C050	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C051	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	-053	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	C054	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-060	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C061	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	-063	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
	C064	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-075	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C101	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
	C102	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C151	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C152	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
C153	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
C201	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C202	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C203	**US061100**	Ceramic Capacitor-CH(chip)	10P 50V D				01
C204	**US061100**	Ceramic Capacitor-CH(chip)	10P 50V D				01
C205	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C206	**US062680**	Ceramic Capacitor-SL(chip)	680P 50V J				01
C207	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
C208	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C209	**US061330**	Ceramic Capacitor-CH(chip)	33P 50V J				01
C210	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
C211	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C212	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C251	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-253	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C301	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C302	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
C303	**UF066100**	Electrolytic Cap. (chip)	1 50V				01
C304	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
C305	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
C306	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C307	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C308	**UF167470**	Electrolytic Cap. (chip)	47 50V UUR1H4				01
C309	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-311	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C312	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
C313	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C314	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
C351	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-353	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C354	**US061270**	Ceramic Capacitor-CH(chip)	27P 50V J				01
C355	**US061270**	Ceramic Capacitor-CH(chip)	27P 50V J				01
C356	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-358	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C401	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-403	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C405	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-410	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C451	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-459	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C460	**UF118330**	Electrolytic Cap. (chip)	330 6.3V UUR0J3				01
C461	**UF047100**	Electrolytic Cap. (chip)	10 25V				01
C462	**UF047100**	Electrolytic Cap. (chip)	10 25V				01
C463	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
-465	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
C466	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
C467	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
CN201	**V3671200**	USB Jack	USB 4P TE		TO HOST USB		03
CN901	**VQ048500**	Connector, FFC	52045 36P TE				02
CN902	**VO022100**	Connector, FFC	52045 40P TE				02
CN907	**VK025500**	Wire Trap	52147 11P TE				01
D301	**VT332900**	Diode	1SS355 TE-17				01
DA101	**VV556300**	Diode Array	DAN217 0.3A X2				01
DA151	**VV556300**	Diode Array	DAN217 0.3A X2				01
DA152	**VV556300**	Diode Array	DAN217 0.3A X2				01
EM051	**FZ006970**	LC Filter	MTY223NBTBM				02
EM052	**FZ006920**	LC Filter	MTB271KBTBM				01
-057	**FZ006920**	LC Filter	MTB271KBTBM				01
EM101	**FZ006920**	LC Filter	MTB271KBTBM				01
EM151	**FZ006920**	LC Filter	MTB271KBTBM				01
EM152	**FZ006920**	LC Filter	MTB271KBTBM				01
EM251	**FZ006920**	LC Filter	MTB271KBTBM				01
-255	**FZ006920**	LC Filter	MTB271KBTBM				01
EM301	**FZ006920**	LC Filter	MTB271KBTBM				01
-304	**FZ006920**	LC Filter	MTB271KBTBM				01
EM351	**FZ006920**	LC Filter	MTB271KBTBM				01
EM352	**FZ006920**	LC Filter	MTB271KBTBM				01
EM353	**FZ006970**	LC Filter	MTY223NBTBM				02

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	EM354	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM451	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM452	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM453	**FZ007070**	LC Filter	MTX222MBTBM				01
	EM454	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC001	**XW842A00**	IC	SN74HCU04NSR		INVERTER		01
*	IC003	**XW559A00**	IC	CS8420		SRC		
*	-005	**XW559A00**	IC	CS8420		SRC		
*	IC051	**XW559A00**	IC	CS8420		SRC		
*	-053	**XW559A00**	IC	CS8420		SRC		
	IC054	**XV794A00**	IC	TC74VHC153F		MULTIPLEXER		
	IC055	**XW875A00**	IC	TC74VHC74F-EL		D-FF		01
	IC056	**XV794A00**	IC	TC74VHC153F		MULTIPLEXER		
	IC057	**XV794A00**	IC	TC74VHC153F		MULTIPLEXER		
	IC101	**XV930A00**	IC	SN75124NSR		LINE RECEIVER		05
	IC151	**XU816A00**	IC	SN75121NSR		LINE DRIVER		05
	IC201	**XW147100**	IC	M37640M8-101FP		MASK CPU (USB)		10
*	IC201	**X0157100**	IC	32KM37640M8-138FP		MASK CPU (USB)		
	IC202	**XW914C00**	IC	539V110		FLASH ROM 4M		
	IC251	**XL334A00**	IC	MC26LS30DR2		LINE DRIVER		08
	IC252	**XU815A00**	IC	DS26C32ATMX		LINE RECEIVER		06
	IC301	**VR903700**	Photo Coupler	HCPL-M600				04
	IC302	**XA862B00**	IC	NJM4560M(T1)		OP AMP		02
	IC303	**IG156700**	IC	UPC319G2		COMPARATOR		05
	IC304	**XV619A00**	IC	ICS2008A		T.C. READER/GENERATOR		15
	IC351	**XW313A00**	IC	TC74VHC125F		BUFFER		02
	IC352	**XW842A00**	IC	SN74HCU04NSR		INVERTER		01
	IC353	**XT230A00**	IC	TC74VHC02F		NOR		01
	IC354	**XV513A00**	IC	MSM82C51A-2GS-KR1		USART		06
	IC401	**XW324A00**	IC	TC74VHC139F(EL)		DECODER		01
	IC402	**XT015A00**	IC	TC74VHC138F		DECODER		02
	IC403	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC405	**XY254A00**	IC	TC74VHC273F(EL)		D-FF		03
	-408	**XY254A00**	IC	TC74VHC273F(EL)		D-FF		03
	IC409	**XM332A00**	IC	TC74VHC04F(EL)		INVERTER		01
	IC410	**XM332A00**	IC	TC74VHC04F(EL)		INVERTER		01
	IC451	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-454	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC455	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC456	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC457	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC458	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC459	**XW876A00**	IC	TC74VHC14F-EL		INVERTER		01
	JK001	**VS133800**	Cannon Connector	NC3FAH1-0		2TR IN DIGITAL 1 AES/EBU		04
	JK002	**VS133800**	Cannon Connector	NC3FAH1-0		2TR IN DIGITAL 2 AES/EBU		04
	JK003	**V7705200**	Pin Jack Black	1P YKC21-3894		2TR IN DIGITAL 3 COAXIAL		01
	JK051	**VS133700**	Cannon Connector	NC3MAH		2TR OUT DIGITAL 1 AES/EBU		04
	JK052	**VS133700**	Cannon Connector	NC3MAH		2TR OUT DIGITAL 2 AES/EBU		04
	JK053	**V7705200**	Pin Jack Black	1P YKC21-3894		2TR OUT DIGITAL 3 COAXIAL		01
	JK101	**V6415900**	BNC Connector	1P YKS11-0067		WORD CLOCK IN		05
	JK151	**V6415900**	BNC Connector	1P YKS11-0067		WORD CLOCK OUT 1		05
	JK152	**V6415900**	BNC Connector	1P YKS11-0067		WORD CLOCK OUT 2		05
	JK251	**VN997100**	DIN Connector	8P TCS7927 MINI		TO HOST SERIAL		04
	JK301	**VS133800**	Cannon Connector	NC3FAH1-0		TIME CODE INPUT SMPTE		04
	JK302	**VK018800**	DIN Connector	x1 5P3 YKF51-50		TIME CODE INPUT MTC		02
	JK351	**V2452000**	DIN Connector	6P TCS7927 MINI		KEYBOARD		04
*	K001	**V7539800**	Cannon Angle					
*	K002	**V7539800**	Cannon Angle					
*	K051	**V7539800**	Cannon Angle					
*	K052	**V7539800**	Cannon Angle					
*	K201	**V6442200**	USB Angle					
*	K301	**V7539800**	Cannon Angle					
	L001	**VP246300**	Noise Filter	ZJY51R5-2P				04
	L002	**VP246300**	Noise Filter	ZJY51R5-2P				04
	L003	**V7930100**	Pulse Transformer	TB06A015				05
	L004	**V7930100**	Pulse Transformer	TB06A015				05
	L005	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-007	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	L010	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-012	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	L051	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-056	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L057	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	L058	**V8143400**	Chip Inductance	BLM21R121SKPT				
	L059	**V7930100**	Pulse Transformer	TB06A015				05
	-061	**V7930100**	Pulse Transformer	TB06A015				05
	L201	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	L202	**V5239100**	Common Mode Coil	PLP3216S121SL2T1				03
	L203	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L451	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-469	**V8143400**	Chip Inductance	BLM21R121SKPT				
	R001	**RD254750**	Carbon Resistor (chip)	75.0 0.1 J				01
	R002	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R003	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R004	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R005	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R006	**RD255110**	Carbon Resistor (chip)	110.0 0.1 J				01
	R007	**RD255110**	Carbon Resistor (chip)	110.0 0.1 J				01
	R013	**VI196400**	Metal Film Resistor (chip)	3.9K 1/10 D				01
	R014	**VI196400**	Metal Film Resistor (chip)	3.9K 1/10 D				01
	R015	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-017	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R020	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	-022	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R025	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-027	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R030	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-032	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R043	**VI196400**	Metal Film Resistor (chip)	3.9K 1/10 D				01
	R051	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-053	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R054	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	-056	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R057	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	-062	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R063	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R064	**RD254430**	Carbon Resistor (chip)	43.0 0.1 J				01
	R065	**RD254390**	Carbon Resistor (chip)	39.0 0.1 J				01
	R066	**RD255110**	Carbon Resistor (chip)	110.0 0.1 J				01
	R067	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R068	**RD255110**	Carbon Resistor (chip)	110.0 0.1 J				01
	R069	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R101	**RD254750**	Carbon Resistor (chip)	75.0 0.1 J				01
	R102	**RD254470**	Carbon Resistor (chip)	47.0 0.1 J				01
	R151	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R152	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R153	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R154	**RD253470**	Carbon Resistor (chip)	4.7 0.1 J				01
	R201	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R202	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R205	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R206	**RD255680**	Carbon Resistor (chip)	680.0 0.1 J				01
	R207	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R208	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R209	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R210	**RD256150**	Carbon Resistor (chip)	1.5K 0.1 J				01
	R211	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R212	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R213	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R214	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R215	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R217	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R251	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R252	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R253	**RD255470**	Carbon Resistor (chip)	470.0 0.1 J				01
	R254	**RD255470**	Carbon Resistor (chip)	470.0 0.1 J				01
	R255	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R256	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R257	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R301	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R302	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R303	**RD256220**	Carbon Resistor (chip)	2.2K 0.1 J				01
	R304	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-306	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R307	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R308	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R309	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R310	**RD256360**	Carbon Resistor (chip)	3.6K 0.1 J				01
	R311	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R351	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R352	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R353	**RD259100**	Carbon Resistor (chip)	1.0M 0.1 J				01
	R354	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R356	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R451	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA201	**RE047220**	Resistor Array	22KX4				01
	-203	**RE047220**	Resistor Array	22KX4				01
	RA451	**RE047100**	Resistor Array	10KX4				01
	-453	**RE047100**	Resistor Array	10KX4				01
	RA454	**RE044220**	Resistor Array	22X4				01
	RA455	**RE044220**	Resistor Array	22X4				01
	RA456	**RE047100**	Resistor Array	10KX4				01
	-459	**RE047100**	Resistor Array	10KX4				01
	RA460	**RE048100**	Resistor Array	100KX4				01
	RA461	**RE048100**	Resistor Array	100KX4				01
	SW101	**VR365100**	Slide Switch	SSSF112-S06N1		WORD CLOCK IN ON/OFF		02
	TH351	**VV216100**	Protector Switch	RXE050 0.50A 72V				03
*	X051	**V6997100**	Quartz Crystal Unit	2720N 24.576MHz				
	X052	**V6997300**	Quartz Crystal Unit	2720N 22.5792MHz				07
	X201	**VP864900**	Quartz Crystal Unit	16MHz SMD-49				04
	X301	**VZ751900**	Quartz Crystal Unit	14.31818MHz SMD-49				03
	X351	**VZ683900**	Quartz Crystal Unit	6.144MHz SMD-49				05
*		**V6286200**	Circuit Board	DM2K JK2		(XZ025B0)		
	C501	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-505	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C601	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-605	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C701	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-703	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C751	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-753	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C801	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-804	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C851	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C901	**UF118330**	Electrolytic Cap. (chip)	330 6.3V UUR0J3				01
	C902	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-915	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	CN501	**V4158600**	Connector	230R(SCSI) 68P SE		CASCADE IN		06
	CN601	**V4158600**	Connector	230R(SCSI) 68P SE		CASCADE OUT		06
	CN751	**VU196300**	Connector Socket	17LE-23090-27(D4CH		REMOTE		04
	CN801	**VR147400**	D-sub Connector	JBY 25P SE		CONTROL		05
	CN851	**VR336300**	D-sub Connector	17LE 15P SE		METER		04
	CN903	**VO022100**	Connector, FFC	52045 40P TE				02
*	CN904	**VQ048100**	Connector, FFC	52045 32P TE				
	CN905	**VF667600**	Wire Trap	52147 15P TE				01
	CN906	**VK025600**	Wire Trap	52147 12P TE				01
	D701	**VT332900**	Diode	1SS355 TE-17				01
	DA501	**VV556300**	Diode Array	DAN217 0.3A X2				01
	-536	**VV556300**	Diode Array	DAN217 0.3A X2				01
	DA601	**VV556300**	Diode Array	DAN217 0.3A X2				01
	-636	**VV556300**	Diode Array	DAN217 0.3A X2				01
	DA851	**VV556300**	Diode Array	DAN217 0.3A X2				01
	-854	**VV556300**	Diode Array	DAN217 0.3A X2				01
	EM501	**VL534100**	LC Filter	NFAC1CC101S1H8L				05
	-504	**VL534100**	LC Filter	NFAC1CC101S1H8L				05
	EM505	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	-508	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM601	**VL534100**	LC Filter	NFAC1CC101S1H8L				05
	-604	**VL534100**	LC Filter	NFAC1CC101S1H8L				05

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	EM605	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	-608	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM751	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	-756	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM802	**VL534100**	LC Filter	NFAC1CC101S1H8L				05
	EM803	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM804	**FZ006920**	LC Filter	MTB271KBTBM				01
	-811	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM851	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	-854	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM855	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM901	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC501	**XU996A00**	IC	AM26LS31CNSR		LINE DRIVER		05
	IC502	**XU815A00**	IC	DS26C32ATMX		LINE RECEIVER		06
	-505	**XU815A00**	IC	DS26C32ATMX		LINE RECEIVER		06
	IC601	**XU996A00**	IC	AM26LS31CNSR		LINE DRIVER		05
	-604	**XU996A00**	IC	AM26LS31CNSR		LINE DRIVER		05
	IC605	**XU815A00**	IC	DS26C32ATMX		LINE RECEIVER		06
	IC701	**XW876A00**	IC	TC74VHC14F-EL		INVERTER		01
	IC702	**VR903700**	Photo Coupler	HCPL-M600				04
	IC751	**XU073A00**	IC	SN75C1168NSR		LINE DRIVER/RECEIVER		05
	IC752	**IS405300**	IC	HD74LV4053AFPEL		MULTIPLEXER		02
	IC753	**IS405300**	IC	HD74LV4053AFPEL		MULTIPLEXER		02
	IC801	**XY254A00**	IC	TC74VHC273F(EL)		D-FF		03
*	IC802	**IS017500**	IC	HD74LV175AFPEL		D-FF		
	IC803	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC851	**XU073A00**	IC	SN75C1168NSR		LINE DRIVER/RECEIVER		05
	IC901	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC902	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC903	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC904	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC905	**XT015A00**	IC	TC74VHC138F		DECODER		02
	IC906	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	-912	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC913	**XY254A00**	IC	TC74VHC273F(EL)		D-FF		03
	JK701	**VI466400**	DIN Connector	x3 DIN YKF51-5046		MIDI IN/OUT/THRU		04
	L701	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	-706	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L901	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-919	**V8143400**	Chip Inductance	BLM21R121SKPT				
		HF755220	Carbon Resistor	220.0 1/4 J				01
	R501	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R502	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	-516	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	R517	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-534	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R535	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R536	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R537	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R538	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R539	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	-542	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R543	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-552	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R553	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	-582	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R601	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	-606	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R607	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	-624	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R625	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R626	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R627	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R628	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R629	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R630	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R631	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R632	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R633	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R634	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R635	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	-642	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R643	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	-645	**RD255150**	Carbon Resistor (chip)	150.0 0.1 J				01
	R701	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	-705	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R706	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R707	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R751	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R752	**RD255470**	Carbon Resistor (chip)	470.0 0.1 J				01
	R753	**RD255470**	Carbon Resistor (chip)	470.0 0.1 J				01
	R754	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R755	**RD254100**	Carbon Resistor (chip)	10.0 0.1 J				01
	R756	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R801	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R802	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R803	**HV754100**	Flame Proof C. Resistor	10.0 1/4 J				01
	-805	**HV754100**	Flame Proof C. Resistor	10.0 1/4 J				01
	R806	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R807	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R808	**RD257470**	Carbon Resistor (chip)	47.0K 0.1 J				01
	R809	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	-811	**RD256470**	Carbon Resistor (chip)	4.7K 0.1 J				01
	R812	**HV754100**	Flame Proof C. Resistor	10.0 1/4 J				01
	-819	**HV754100**	Flame Proof C. Resistor	10.0 1/4 J				01
	R851	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R852	**RD256270**	Carbon Resistor (chip)	2.7K 0.1 J				01
	-855	**RD256270**	Carbon Resistor (chip)	2.7K 0.1 J				01
	R856	**RD254470**	Carbon Resistor (chip)	47.0 0.1 J				01
	-859	**RD254470**	Carbon Resistor (chip)	47.0 0.1 J				01
	R901	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA501	**RE047100**	Resistor Array	10KX4				01
	RA502	**RE047100**	Resistor Array	10KX4				01
	RA601	**RE047100**	Resistor Array	10KX4				01
	RA602	**RE047100**	Resistor Array	10KX4				01
	RA801	**RE047100**	Resistor Array	10KX4				01
	RA901	**RE047100**	Resistor Array	10KX4				01
	RA902	**RE044220**	Resistor Array	22X4				01
	RA903	**RE044220**	Resistor Array	22X4				01
	RA904	**RE047100**	Resistor Array	10KX4				01
	-908	**RE047100**	Resistor Array	10KX4				01
	RA909	**RE048100**	Resistor Array	100KX4				01
	RA910	**RE048100**	Resistor Array	100KX4				01
	TA801	**VQ248500**	Transistor Array	TD62381F				04
	TH801	**VV216100**	Protector Switch	RXE050 0.50A 72V				03
	TR701	**VD678500**	Digital Transistor	DTA114ES				01
	TR801	**IA101590**	Transistor	2SA1015 O,Y				01
	-803	**IA101590**	Transistor	2SA1015 O,Y				01
*		**V8249100**	Circuit Board	DM2 LCDCOM CNT+INV		(X2160B0)		
		--	Circuit Board	DM2K CNT (LCDCOM)		(V646840)(X2160B0)		
		--	Circuit Board	DM2K INV (LCDCOM)		(V646830)(X2160B0)		
		--	Jumper Wire	0.55		(VA07890)		
	C901	**UI538100**	Electrolytic Cap.	100.00 16.0V				01
	C902	**UI538100**	Electrolytic Cap.	100.00 16.0V				01
	C903	**UI557470**	Electrolytic Cap.	47.00 35.0V				01
*	C904	**V8564200**	Electrolytic Cap. (chip)	0.039 250V ECQE2				
	C905	**VS147400**	Ceramic Capacitor-SL	18P 3KV J				01
	CN901	**VK024800**	Wire Trap	52147 4P TE				01
	CN902	**VI878100**	Cable Holder	51048 3P TE				01
	CN903	**VK025600**	Wire Trap	52147 12P TE				01
	CN904	**VF982200**	Connector, FFC	52044 14P SE				02
	CN905	**VT389600**	Base Post Connector	53259 4P SE				01
	CN951	**VI878100**	Cable Holder	51048 3P TE				01
	EM901	**FZ006970**	LC Filter	MTY223NBTBM				02
*	IC901	**X2216A00**	IC	CE-0703		DC-DC CONVERTER		
	L901	**VS587900**	Coil	LH L 08TB221K 220u				01
	R901	**HF457110**	Carbon Resistor	11.0K 1/4 J				01
	R902	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R903	**HF456120**	Carbon Resistor	1.2K 1/4 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R904	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
	R905	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
	R906	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
	R907	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
	R908	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
	R909	**VC748400**	Metal Oxide Film Resistor	2.2K 1W J				01
	T901	**VS602500**	Inverter Transformer	CLF16A				07
	TH901	**VT816300**	Thermistor	ERT-D2FGL332S 3.3K				01
	TR901	**VS185600**	Transistor	2SD1863 TV2 82-390				01
	TR902	**VS185600**	Transistor	2SD1863 TV2 82-390				01
	TR903	**IC1815M0**	Transistor	2SC1815 Y,GR				01
	VR951	**V3820700**	Rotary Variable Resistor	B 10K RK09K1130A5R		LCD contrast		01
*	W902	**V5183000**	Ribbon Cable	P=2.0 #26 3P 100L				
	ZD901	**VG438300**	Zener Diode	MTZ J 6.8B 6.8V				01
*		**V6285800**	Circuit Board	DM2K OPT		(XZ023B0)		
	C801	**FG652100**	Ceramic Capacitor	100pF 50V				01
	C802	**FG652100**	Ceramic Capacitor	100pF 50V				01
	CN801	**VP327200**	Connector, FFC	52045 30P TE				01
	-803	**VP327200**	Connector, FFC	52045 30P TE				01
	CN804	**VP127700**	Connector, FFC	52045 24P TE				01
	-806	**VP127700**	Connector, FFC	52045 24P TE				01
	CN807	**VO022300**	Connector, FFC	52044 40P SE				02
	CN901	**VU328200**	Plug	PHEC 100P TE		SLOT 1-6		05
	-906	**VU328200**	Plug	PHEC 100P TE				05
	CN907	**LB932080**	Base Post Connector	VH 8P TE				01
	CN908	**VB390200**	Connector Base Post	PH 6P TE				01
	R801	**HF754470**	Carbon Resistor	47.0 1/4				01
	R802	**HF754470**	Carbon Resistor	47.0 1/4				01
*		**V6286300**	Circuit Board	DM2K PN1		(XZ026B0)		
*	20	**V8486700**	Button M_Gray	L LENS		SOLO 1-16	16	
*	30	**V8486800**	Button Light Gray	L LENS		ON 1-16	16	
*	40	**V8486900**	Button Blue	L LENS		SEL 1-16	16	
*	50	**V6197400**	Button Dark Gray	S LENS		MATRIX 1-4,AUX 1-12,	30	
						FADER,AUX/MTRX(FD. MODE), INTERNAL EFFECTS, GRAPHIC EQUALIZERS, PLUG-INS,CHANNEL INSERTS, 1-8(EFFECTS/PLUG-INS)		
*	60	**V8487100**	Button M_Gray	S LENS		AUTO 1-16	16	
*	90	**V8487400**	Button Dark Gray	S		Cursor (Left,Right),F 1-4	6	
*	100	**V8487500**	Button M_Gray	S		Cursor (Up,Down)	2	
*	110	**V8487600**	Button Light Gray	S		DISPLAY,DATA,DIO,SETUP, UTILITY,MIDI,REMOTE, METER,VIEW,PAIR,GROUP, INPUT PATCH,OUTPUT PATCH	16	
*	120	**V8487000**	Button Blue	S LENS		PAN,AUX/MTRX(EC. MODE), ASSIGN 1-4	6	
	C101	**UF028100**	Electrolytic Cap. (chip)	100 10V				01
	C102	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	C103	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-109	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C110	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	-112	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C113	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-117	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	CN101	**VI879500**	Cable Holder	51048 17P TE				01
	CN102	**VK026900**	Wire Trap	52151 10P SE				01
	CN103	**VO022300**	Connector, FFC	52044 40P SE				02
	D101	**VT332900**	Diode	1SS355 TE-17				01
	-244	**VT332900**	Diode	1SS355 TE-17				01
*	EC101	**V3750900**	Rotary Encoder	EC12E2444400		CH1		
*	EC102	**V3750900**	Rotary Encoder	EC12E2444400		CH2		
*	EC103	**V3750900**	Rotary Encoder	EC12E2444400		CH3		
*	EC104	**V3750900**	Rotary Encoder	EC12E2444400		CH4		
*	EC105	**V3750900**	Rotary Encoder	EC12E2444400		CH5		
*	EC106	**V3750900**	Rotary Encoder	EC12E2444400		CH6		
*	EC107	**V3750900**	Rotary Encoder	EC12E2444400		CH7		
*	EC108	**V3750900**	Rotary Encoder	EC12E2444400		CH8		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	EC109	**V3750900**	Rotary Encoder	EC12E2444400		CH9		
*	EC110	**V3750900**	Rotary Encoder	EC12E2444400		CH10		
*	EC111	**V3750900**	Rotary Encoder	EC12E2444400		CH11		
*	EC112	**V3750900**	Rotary Encoder	EC12E2444400		CH12		
*	EC113	**V3750900**	Rotary Encoder	EC12E2444400		CH13		
*	EC114	**V3750900**	Rotary Encoder	EC12E2444400		CH14		
*	EC115	**V3750900**	Rotary Encoder	EC12E2444400		CH15		
*	EC116	**V3750900**	Rotary Encoder	EC12E2444400		CH16		
*	EC117	**V3750900**	Rotary Encoder	EC12E2444400		EFFECT1		
*	EC118	**V3750900**	Rotary Encoder	EC12E2444400		EFFECT2		
*	EC119	**V3750900**	Rotary Encoder	EC12E2444400		EFFECT3		
*	EC120	**V3750900**	Rotary Encoder	EC12E2444400		EFFECT4		
	EM101	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM102	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC101	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC102	**XT163A00**	IC	TC74HC238AF		TRANSCEIVER		03
*	IC103	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
*	IC104	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
*	IC105	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
*	-107	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
*	LD101	**V3670200**	LED Yellow	LT1H40A		ON1		
*	LD102	**V3670200**	LED Yellow	LT1H40A		ON2		
*	LD103	**V3670200**	LED Yellow	LT1H40A		ON3		
*	LD104	**V3670200**	LED Yellow	LT1H40A		ON4		
*	LD105	**V3670200**	LED Yellow	LT1H40A		ON5		
*	LD106	**V3670200**	LED Yellow	LT1H40A		ON6		
*	LD107	**V3670200**	LED Yellow	LT1H40A		ON7		
*	LD108	**V3670200**	LED Yellow	LT1H40A		ON8		
*	LD109	**V3670200**	LED Yellow	LT1H40A		ON9		
*	LD110	**V3670200**	LED Yellow	LT1H40A		ON10		
*	LD111	**V3670200**	LED Yellow	LT1H40A		ON11		
*	LD112	**V3670200**	LED Yellow	LT1H40A		ON12		
*	LD113	**V3670200**	LED Yellow	LT1H40A		ON13		
*	LD114	**V3670200**	LED Yellow	LT1H40A		ON14		
*	LD115	**V3670200**	LED Yellow	LT1H40A		ON15		
*	LD116	**V3670200**	LED Yellow	LT1H40A		ON16		
*	LD117	**V3670200**	LED Yellow	LT1H40A		SOLO1		
*	LD118	**V3670200**	LED Yellow	LT1H40A		SOLO2		
*	LD119	**V3670200**	LED Yellow	LT1H40A		SOLO3		
*	LD120	**V3670200**	LED Yellow	LT1H40A		SOLO4		
*	LD121	**V3670200**	LED Yellow	LT1H40A		SOLO5		
*	LD122	**V3670200**	LED Yellow	LT1H40A		SOLO6		
*	LD123	**V3670200**	LED Yellow	LT1H40A		SOLO7		
*	LD124	**V3670200**	LED Yellow	LT1H40A		SOLO8		
*	LD125	**V3670200**	LED Yellow	LT1H40A		SOLO9		
*	LD126	**V3670200**	LED Yellow	LT1H40A		SOLO10		
*	LD127	**V3670200**	LED Yellow	LT1H40A		SOLO11		
*	LD128	**V3670200**	LED Yellow	LT1H40A		SOLO12		
*	LD129	**V3670200**	LED Yellow	LT1H40A		SOLO13		
*	LD130	**V3670200**	LED Yellow	LT1H40A		SOLO14		
*	LD131	**V3670200**	LED Yellow	LT1H40A		SOLO15		
*	LD132	**V3670200**	LED Yellow	LT1H40A		SOLO16		
*	LD133	**V3670100**	LED Yellow/Green	LT1E40A		SEL1		
*	LD134	**V3670100**	LED Yellow/Green	LT1E40A		SEL2		
*	LD135	**V3670100**	LED Yellow/Green	LT1E40A		SEL3		
*	LD136	**V3670100**	LED Yellow/Green	LT1E40A		SEL4		
*	LD137	**V3670100**	LED Yellow/Green	LT1E40A		SEL5		
*	LD138	**V3670100**	LED Yellow/Green	LT1E40A		SEL6		
*	LD139	**V3670100**	LED Yellow/Green	LT1E40A		SEL7		
*	LD140	**V3670100**	LED Yellow/Green	LT1E40A		SEL8		
*	LD141	**V3670100**	LED Yellow/Green	LT1E40A		SEL9		
*	LD142	**V3670100**	LED Yellow/Green	LT1E40A		SEL10		
*	LD143	**V3670100**	LED Yellow/Green	LT1E40A		SEL11		
*	LD144	**V3670100**	LED Yellow/Green	LT1E40A		SEL12		
*	LD145	**V3670100**	LED Yellow/Green	LT1E40A		SEL13		
*	LD146	**V3670100**	LED Yellow/Green	LT1E40A		SEL14		
*	LD147	**V3670100**	LED Yellow/Green	LT1E40A		SEL15		
*	LD148	**V3670100**	LED Yellow/Green	LT1E40A		SEL16		
*	LD149	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO1		
*	LD150	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO2		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD151	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO3		
*	LD152	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO4		
*	LD153	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO5		
*	LD154	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO6		
*	LD155	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO7		
*	LD156	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO8		
*	LD157	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO9		
*	LD158	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO10		
*	LD159	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO11		
*	LD160	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO12		
*	LD161	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO13		
*	LD162	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO14		
*	LD163	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO15		
*	LD164	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO16		
*	LD181	**V3670100**	LED Yellow/Green	LT1E40A		AUX1 (AUX SELECT)		
*	LD182	**V3670100**	LED Yellow/Green	LT1E40A		AUX2 (AUX SELECT)		
*	LD183	**V3670100**	LED Yellow/Green	LT1E40A		AUX3 (AUX SELECT)		
*	LD184	**V3670100**	LED Yellow/Green	LT1E40A		AUX4 (AUX SELECT)		
*	LD185	**V3670100**	LED Yellow/Green	LT1E40A		AUX5 (AUX SELECT)		
*	LD186	**V3670100**	LED Yellow/Green	LT1E40A		AUX6 (AUX SELECT)		
*	LD187	**V3670100**	LED Yellow/Green	LT1E40A		AUX7 (AUX SELECT)		
*	LD188	**V3670100**	LED Yellow/Green	LT1E40A		AUX8 (AUX SELECT)		
*	LD189	**V3670100**	LED Yellow/Green	LT1E40A		AUX9 (AUX SELECT)		
*	LD190	**V3670100**	LED Yellow/Green	LT1E40A		AUX10 (AUX SELECT)		
*	LD191	**V3670100**	LED Yellow/Green	LT1E40A		AUX11 (AUX SELECT)		
*	LD192	**V3670100**	LED Yellow/Green	LT1E40A		AUX12 (AUX SELECT)		
*	LD193	**V3670100**	LED Yellow/Green	LT1E40A		MATRIX1 (MATRIX SELECT)		
*	LD194	**V3670100**	LED Yellow/Green	LT1E40A		MATRIX2 (MATRIX SELECT)		
*	LD195	**V3670100**	LED Yellow/Green	LT1E40A		MATRIX3 (MATRIX SELECT)		
*	LD196	**V3670100**	LED Yellow/Green	LT1E40A		MATRIX4 (MATRIX SELECT)		
*	LD197	**V3670100**	LED Yellow/Green	LT1E40A		1 (EFFECTS/PLUG-INS)		
*	LD198	**V3670100**	LED Yellow/Green	LT1E40A		2 (EFFECTS/PLUG-INS)		
*	LD199	**V3670100**	LED Yellow/Green	LT1E40A		3 (EFFECTS/PLUG-INS)		
*	LD200	**V3670100**	LED Yellow/Green	LT1E40A		4 (EFFECTS/PLUG-INS)		
*	LD201	**V3670100**	LED Yellow/Green	LT1E40A		5 (EFFECTS/PLUG-INS)		
*	LD202	**V3670100**	LED Yellow/Green	LT1E40A		6 (EFFECTS/PLUG-INS)		
*	LD203	**V3670100**	LED Yellow/Green	LT1E40A		7 (EFFECTS/PLUG-INS)		
*	LD204	**V3670100**	LED Yellow/Green	LT1E40A		8 (EFFECTS/PLUG-INS)		
*	LD205	**V3670100**	LED Yellow/Green	LT1E40A		INTERNAL EFFECTS		
*	LD206	**V3670100**	LED Yellow/Green	LT1E40A		GRAPHIC EQUALIZERS		
*	LD207	**V3670100**	LED Yellow/Green	LT1E40A		PLUG-INS		
*	LD208	**V3670100**	LED Yellow/Green	LT1E40A		CHANNEL INSERTS		
*	LD213	**V3670100**	LED Yellow/Green	LT1E40A		FADER (FADER MODE)		
*	LD214	**V3670100**	LED Yellow/Green	LT1E40A		AUX/MTRX (FADER MODE)		
*	LD215	**V3670100**	LED Yellow/Green	LT1E40A		PAN (ENCODER MODE)		
*	LD216	**V3670100**	LED Yellow/Green	LT1E40A		AUX/MTRX (ENCODER MODE)		
*	LD217	**V3670100**	LED Yellow/Green	LT1E40A		ASSIGN1 (ENCODER MODE)		
*	LD218	**V3670100**	LED Yellow/Green	LT1E40A		ASSIGN2 (ENCODER MODE)		
*	LD219	**V3670100**	LED Yellow/Green	LT1E40A		ASSIGN3 (ENCODER MODE)		
*	LD220	**V3670100**	LED Yellow/Green	LT1E40A		ASSIGN4 (ENCODER MODE)		
	R101	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	-116	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R118	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-134	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R135	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R136	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-140	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R141	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA101	**RE047100**	Resistor Array	10KX4				01
	-108	**RE047100**	Resistor Array	10KX4				01
	SW101	**VV056000**	Tact Switch	SKQNAED010		ON1		01
	SW102	**VV056000**	Tact Switch	SKQNAED010		ON2		01
	SW103	**VV056000**	Tact Switch	SKQNAED010		ON3		01
	SW104	**VV056000**	Tact Switch	SKQNAED010		ON4		01
	SW105	**VV056000**	Tact Switch	SKQNAED010		ON5		01
	SW106	**VV056000**	Tact Switch	SKQNAED010		ON6		01
	SW107	**VV056000**	Tact Switch	SKQNAED010		ON7		01
	SW108	**VV056000**	Tact Switch	SKQNAED010		ON8		01
	SW109	**VV056000**	Tact Switch	SKQNAED010		ON9		01
	SW110	**VV056000**	Tact Switch	SKQNAED010		ON10		01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
SW111	**VV056000**	Tact Switch	SKQNAED010		ON11		01
SW112	**VV056000**	Tact Switch	SKQNAED010		ON12		01
SW113	**VV056000**	Tact Switch	SKQNAED010		ON13		01
SW114	**VV056000**	Tact Switch	SKQNAED010		ON14		01
SW115	**VV056000**	Tact Switch	SKQNAED010		ON15		01
SW116	**VV056000**	Tact Switch	SKQNAED010		ON16		01
SW117	**VV056000**	Tact Switch	SKQNAED010		SOLO1		01
SW118	**VV056000**	Tact Switch	SKQNAED010		SOLO2		01
SW119	**VV056000**	Tact Switch	SKQNAED010		SOLO3		01
SW120	**VV056000**	Tact Switch	SKQNAED010		SOLO4		01
SW121	**VV056000**	Tact Switch	SKQNAED010		SOLO5		01
SW122	**VV056000**	Tact Switch	SKQNAED010		SOLO6		01
SW123	**VV056000**	Tact Switch	SKQNAED010		SOLO7		01
SW124	**VV056000**	Tact Switch	SKQNAED010		SOLO8		01
SW125	**VV056000**	Tact Switch	SKQNAED010		SOLO9		01
SW126	**VV056000**	Tact Switch	SKQNAED010		SOLO10		01
SW127	**VV056000**	Tact Switch	SKQNAED010		SOLO11		01
SW128	**VV056000**	Tact Switch	SKQNAED010		SOLO12		01
SW129	**VV056000**	Tact Switch	SKQNAED010		SOLO13		01
SW130	**VV056000**	Tact Switch	SKQNAED010		SOLO14		01
SW131	**VV056000**	Tact Switch	SKQNAED010		SOLO15		01
SW132	**VV056000**	Tact Switch	SKQNAED010		SOLO16		01
SW133	**VV056000**	Tact Switch	SKQNAED010		SEL1		01
SW134	**VV056000**	Tact Switch	SKQNAED010		SEL2		01
SW135	**VV056000**	Tact Switch	SKQNAED010		SEL3		01
SW136	**VV056000**	Tact Switch	SKQNAED010		SEL4		01
SW137	**VV056000**	Tact Switch	SKQNAED010		SEL5		01
SW138	**VV056000**	Tact Switch	SKQNAED010		SEL6		01
SW139	**VV056000**	Tact Switch	SKQNAED010		SEL7		01
SW140	**VV056000**	Tact Switch	SKQNAED010		SEL8		01
SW141	**VV056000**	Tact Switch	SKQNAED010		SEL9		01
SW142	**VV056000**	Tact Switch	SKQNAED010		SEL10		01
SW143	**VV056000**	Tact Switch	SKQNAED010		SEL11		01
SW144	**VV056000**	Tact Switch	SKQNAED010		SEL12		01
SW145	**VV056000**	Tact Switch	SKQNAED010		SEL13		01
SW146	**VV056000**	Tact Switch	SKQNAED010		SEL14		01
SW147	**VV056000**	Tact Switch	SKQNAED010		SEL15		01
SW148	**VV056000**	Tact Switch	SKQNAED010		SEL16		01
SW149	**VV056000**	Tact Switch	SKQNAED010		AUTO1		01
SW150	**VV056000**	Tact Switch	SKQNAED010		AUTO2		01
SW151	**VV056000**	Tact Switch	SKQNAED010		AUTO3		01
SW152	**VV056000**	Tact Switch	SKQNAED010		AUTO4		01
SW153	**VV056000**	Tact Switch	SKQNAED010		AUTO5		01
SW154	**VV056000**	Tact Switch	SKQNAED010		AUTO6		01
SW155	**VV056000**	Tact Switch	SKQNAED010		AUTO7		01
SW156	**VV056000**	Tact Switch	SKQNAED010		AUTO8		01
SW157	**VV056000**	Tact Switch	SKQNAED010		AUTO9		01
SW158	**VV056000**	Tact Switch	SKQNAED010		AUTO10		01
SW159	**VV056000**	Tact Switch	SKQNAED010		AUTO11		01
SW160	**VV056000**	Tact Switch	SKQNAED010		AUTO12		01
SW161	**VV056000**	Tact Switch	SKQNAED010		AUTO13		01
SW162	**VV056000**	Tact Switch	SKQNAED010		AUTO14		01
SW163	**VV056000**	Tact Switch	SKQNAED010		AUTO15		01
SW164	**VV056000**	Tact Switch	SKQNAED010		AUTO16		01
SW181	**VV056000**	Tact Switch	SKQNAED010		AUX1 (AUX SELECT)		01
SW182	**VV056000**	Tact Switch	SKQNAED010		AUX2 (AUX SELECT)		01
SW183	**VV056000**	Tact Switch	SKQNAED010		AUX3 (AUX SELECT)		01
SW184	**VV056000**	Tact Switch	SKQNAED010		AUX4 (AUX SELECT)		01
SW185	**VV056000**	Tact Switch	SKQNAED010		AUX5 (AUX SELECT)		01
SW186	**VV056000**	Tact Switch	SKQNAED010		AUX6 (AUX SELECT)		01
SW187	**VV056000**	Tact Switch	SKQNAED010		AUX7 (AUX SELECT)		01
SW188	**VV056000**	Tact Switch	SKQNAED010		AUX8 (AUX SELECT)		01
SW189	**VV056000**	Tact Switch	SKQNAED010		AUX9 (AUX SELECT)		01
SW190	**VV056000**	Tact Switch	SKQNAED010		AUX10 (AUX SELECT)		01
SW191	**VV056000**	Tact Switch	SKQNAED010		AUX11 (AUX SELECT)		01
SW192	**VV056000**	Tact Switch	SKQNAED010		AUX12 (AUX SELECT)		01
SW193	**VV056000**	Tact Switch	SKQNAED010		MATRIX1 (MATRIX SELECT)		01
SW194	**VV056000**	Tact Switch	SKQNAED010		MATRIX2 (MATRIX SELECT)		01
SW195	**VV056000**	Tact Switch	SKQNAED010		MATRIX3 (MATRIX SELECT)		01
SW196	**VV056000**	Tact Switch	SKQNAED010		MATRIX4 (MATRIX SELECT)		01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	SW197	**VV056000**	Tact Switch	SKQNAED010		1 (EFFECTS/PLUG-INS)		01
	SW198	**VV056000**	Tact Switch	SKQNAED010		2 (EFFECTS/PLUG-INS)		01
	SW199	**VV056000**	Tact Switch	SKQNAED010		3 (EFFECTS/PLUG-INS)		01
	SW200	**VV056000**	Tact Switch	SKQNAED010		4 (EFFECTS/PLUG-INS)		01
	SW201	**VV056000**	Tact Switch	SKQNAED010		5 (EFFECTS/PLUG-INS)		01
	SW202	**VV056000**	Tact Switch	SKQNAED010		6 (EFFECTS/PLUG-INS)		01
	SW203	**VV056000**	Tact Switch	SKQNAED010		7 (EFFECTS/PLUG-INS)		01
	SW204	**VV056000**	Tact Switch	SKQNAED010		8 (EFFECTS/PLUG-INS)		01
	SW205	**VV056000**	Tact Switch	SKQNAED010		INTERNAL EFFECTS		01
	SW206	**VV056000**	Tact Switch	SKQNAED010		GRAPHIC EQUALIZERS		01
	SW207	**VV056000**	Tact Switch	SKQNAED010		PLUG-INS		01
	SW208	**VV056000**	Tact Switch	SKQNAED010		CHANNEL INSERTS		01
	SW213	**VV056000**	Tact Switch	SKQNAED010		FADER (FADER MODE)		01
	SW214	**VV056000**	Tact Switch	SKQNAED010		AUX/MTRX (FADER MODE)		01
	SW215	**VV056000**	Tact Switch	SKQNAED010		PAN (ENCODER MODE)		01
	SW216	**VV056000**	Tact Switch	SKQNAED010		AUX/MTRX (ENCODER MODE)		01
	SW217	**VV056000**	Tact Switch	SKQNAED010		ASSIGN1 (ENCODER MODE)		01
	SW218	**VV056000**	Tact Switch	SKQNAED010		ASSIGN2 (ENCODER MODE)		01
	SW219	**VV056000**	Tact Switch	SKQNAED010		ASSIGN3 (ENCODER MODE)		01
	SW220	**VV056000**	Tact Switch	SKQNAED010		ASSIGN4 (ENCODER MODE)		01
	SW221	**VV056000**	Tact Switch	SKQNAED010		DATA (DISPLAY ACCESS)		01
	SW222	**VV056000**	Tact Switch	SKQNAED010		DIO (DISPLAY ACCESS)		01
	SW223	**VV056000**	Tact Switch	SKQNAED010		SETUP (DISPLAY ACCESS)		01
	SW224	**VV056000**	Tact Switch	SKQNAED010		UTILITY (DISPLAY ACCESS)		01
	SW225	**VV056000**	Tact Switch	SKQNAED010		MIDI (DISPLAY ACCESS)		01
	SW226	**VV056000**	Tact Switch	SKQNAED010		REMOTE (DISPLAY ACCESS)		01
	SW227	**VV056000**	Tact Switch	SKQNAED010		METER (DISPLAY ACCESS)		01
	SW228	**VV056000**	Tact Switch	SKQNAED010		VIEW (DISPLAY ACCESS)		01
	SW229	**VV056000**	Tact Switch	SKQNAED010		F1		01
	SW230	**VV056000**	Tact Switch	SKQNAED010		F2		01
	SW231	**VV056000**	Tact Switch	SKQNAED010		F3		01
	SW232	**VV056000**	Tact Switch	SKQNAED010		F4		01
	SW233	**VV056000**	Tact Switch	SKQNAED010		Cursor Left		01
	SW234	**VV056000**	Tact Switch	SKQNAED010		Cursor Right		01
	SW235	**VV056000**	Tact Switch	SKQNAED010		Cursor Up		01
	SW236	**VV056000**	Tact Switch	SKQNAED010		Cursor Down		01
	SW237	**VV056000**	Tact Switch	SKQNAED010		PAIR (DISPLAY ACCESS)		01
	SW238	**VV056000**	Tact Switch	SKQNAED010		GROUP (DISPLAY ACCESS)		01
	SW239	**VV056000**	Tact Switch	SKQNAED010		INPUT PATCH (DISPLAY ACC)		01
	SW240	**VV056000**	Tact Switch	SKQNAED010		OUTPUT PATCH (DISPLAY ACC)		01
	SW241	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (MATRIX SELECT)		01
	SW242	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (AUX SELECT)		01
	SW243	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (ENCODER MODE)		01
	SW244	**VV056000**	Tact Switch	SKQNAED010		DISPLAY(EFFECTS/PLUG-INS)		01
	TA101	**VY703900**	Transistor Array	TD62309F(EL)				04
	TA102	**VY703900**	Transistor Array	TD62309F(EL)				04
	TA103	**VY703900**	Transistor Array	TD62309F(EL)				04
	TA104	**VQ248400**	Transistor Array	TD62783AF				04
	TA105	**VQ248400**	Transistor Array	TD62783AF				04
*	W101	**V8392900**	Jumper Wire	FVP=2.0C26SB17-100				
*		**AAX33160**	Circuit Board	DM2K PN2 1/2		(V628640)(XZ027B0)		
*		**AAX33170**	Circuit Board	DM2K PN2 2/2		(V628640)(XZ027B0)		
*	10	**V6197300**	Button Dark Gray	L LENS		1-24,25-48,49-72,73-96, MASTER	5	
*	20	**V8486700**	Button M_Gray	L LENS		SOLO 17-24	8	
*	30	**V8486800**	Button Light Gray	L LENS		ON 17-24,ON(STEREO)	9	
*	40	**V8486900**	Button Blue	L LENS		SEL 17-24,SEL(STEREO)	9	
*	60	**V8487100**	Button M_Gray	L LENS		AUTO 17-24,AUTO(STEREO), REMOTE 1-4,1-8(ROUTING), FOLLOW PAN,STEREO,DIRECT, Ø,INSERT ON,ON(DELAY), ON 1-4(AUX/MATRIX SEND), GATE ON,COMP ON,L,R,LINK, GRAB,EFFECT,EQ ON	39	
*	100	**V8487500**	Button M_Gray	S		BANK,GATE/COMP,COPY,PASTE	4	
*	110	**V8487600**	Button Light Gray	S		DISPLAY	7	
*	130	**V6179800**	LED Lens	x16P		PAN 1-10		
	C302	**UF028100**	Electrolytic Cap. (chip)	100 10V				01
	C303	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C304	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C305	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	C306	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-322	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C323	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	-327	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	CN301	**VO022300**	Connector, FFC	52044 40P SE				02
	CN302	**VI878800**	Cable Holder	51048 10P TE				01
	CN303	**VQ045500**	Connector, FFC	52044 26P SE				02
	CN304	**VO022300**	Connector, FFC	52044 40P SE				02
	CN305	**VK026300**	Wire Trap	52151 4P SE				01
	D301	**VT332900**	Diode	1SS355 TE-17				01
	-308	**VT332900**	Diode	1SS355 TE-17				01
	D310	**VT332900**	Diode	1SS355 TE-17				01
	-327	**VT332900**	Diode	1SS355 TE-17				01
	D331	**VT332900**	Diode	1SS355 TE-17				01
	-345	**VT332900**	Diode	1SS355 TE-17				01
	D349	**VT332900**	Diode	1SS355 TE-17				01
	-380	**VT332900**	Diode	1SS355 TE-17				01
	D389	**VT332900**	Diode	1SS355 TE-17				01
	-396	**VT332900**	Diode	1SS355 TE-17				01
	D405	**VT332900**	Diode	1SS355 TE-17				01
	-407	**VT332900**	Diode	1SS355 TE-17				01
	D409	**VT332900**	Diode	1SS355 TE-17				01
	D410	**VT332900**	Diode	1SS355 TE-17				01
	D413	**VT332900**	Diode	1SS355 TE-17				01
	-419	**VT332900**	Diode	1SS355 TE-17				01
	D423	**VT332900**	Diode	1SS355 TE-17				01
	-427	**VT332900**	Diode	1SS355 TE-17				01
*	EC301	**V3750900**	Rotary Encoder	EC12E2444400		CH17		
*	EC302	**V3750900**	Rotary Encoder	EC12E2444400		CH18		
*	EC303	**V3750900**	Rotary Encoder	EC12E2444400		CH19		
*	EC304	**V3750900**	Rotary Encoder	EC12E2444400		CH20		
*	EC305	**V3750900**	Rotary Encoder	EC12E2444400		CH21		
*	EC306	**V3750900**	Rotary Encoder	EC12E2444400		CH22		
*	EC307	**V3750900**	Rotary Encoder	EC12E2444400		CH23		
*	EC308	**V3750900**	Rotary Encoder	EC12E2444400		CH24		
*	EC309	**V3750700**	Rotary Encoder	EC12E2410401		GAIN (EQUALIZER LOW)		
*	EC310	**V3750700**	Rotary Encoder	EC12E2410401		GAIN (EQUALIZER LOW-MID)		
*	EC311	**V3750700**	Rotary Encoder	EC12E2410401		GAIN (EQUALIZER HIGH-MID)		
*	EC312	**V3750700**	Rotary Encoder	EC12E2410401		GAIN (EQUALIZER HIGH)		
*	EC313	**V3750700**	Rotary Encoder	EC12E2410401		ATT. (EQUALIZER)		
*	EC314	**V3750700**	Rotary Encoder	EC12E2410401		PAN/SURROUND		
*	EC315	**V3750900**	Rotary Encoder	EC12E2444400		F/Q (EQUALIZER LOW)		
*	EC316	**V3750900**	Rotary Encoder	EC12E2444400		F/Q (EQUALIZER LOW-MID)		
*	EC317	**V3750900**	Rotary Encoder	EC12E2444400		F/Q (EQUALIZER HIGH-MID)		
*	EC318	**V3750900**	Rotary Encoder	EC12E2444400		F/Q (EQUALIZER HIGH)		
*	EC319	**V3750900**	Rotary Encoder	EC12E2444400		MIX/FB (DELAY)		
*	EC320	**V3750700**	Rotary Encoder	EC12E2410401		THRESHOLD (DYNAMICS)		
*	EC321	**V3750700**	Rotary Encoder	EC12E2410401		RANGE/RATIO (DYNAMICS)		
*	EC322	**V3750700**	Rotary Encoder	EC12E2410401		ATTACK (DYNAMICS)		
*	EC323	**V3750700**	Rotary Encoder	EC12E2410401		DECAY/RELEASE (DYNAMICS)		
*	EC324	**V3750700**	Rotary Encoder	EC12E2410401		HOLD/GAIN (DYNAMICS)		
*	EC325	**V3750900**	Rotary Encoder	EC12E2444400		LEVEL1 (AUX/MATRIX SEND)		
*	EC326	**V3750900**	Rotary Encoder	EC12E2444400		LEVEL2 (AUX/MATRIX SEND)		
*	EC327	**V3750900**	Rotary Encoder	EC12E2444400		LEVEL3 (AUX/MATRIX SEND)		
*	EC328	**V3750900**	Rotary Encoder	EC12E2444400		LEVEL4 (AUX/MATRIX SEND)		
*	EC329	**V3750700**	Rotary Encoder	EC12E2410401		TIME (DELAY)		
	EM301	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM302	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC301	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC302	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
*	IC303	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
*	IC304	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
*	IC305	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
*	-308	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
	IC309	**XT163A00**	IC	TC74HC238AF		TRANSCEIVER		03
	IC310	**XT163A00**	IC	TC74HC238AF		TRANSCEIVER		03
*	LD301	**V3670200**	LED Yellow	LT1H40A		ON17		
*	LD302	**V3670200**	LED Yellow	LT1H40A		ON18		

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD303	**V3670200**	LED Yellow	LT1H40A		ON19		
*	LD304	**V3670200**	LED Yellow	LT1H40A		ON20		
*	LD305	**V3670200**	LED Yellow	LT1H40A		ON21		
*	LD306	**V3670200**	LED Yellow	LT1H40A		ON22		
*	LD307	**V3670200**	LED Yellow	LT1H40A		ON23		
*	LD308	**V3670200**	LED Yellow	LT1H40A		ON24		
*	LD310	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO (STEREO)		
*	LD311	**V3670100**	LED Yellow/Green	LT1E40A		SEL (STEREO)		
*	LD312	**V3670200**	LED Yellow	LT1H40A		ON (STEREO)		
*	LD313	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE1 (LAYER)		
*	LD314	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE2 (LAYER)		
*	LD315	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE3 (LAYER)		
*	LD316	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE4 (LAYER)		
*	LD317	**V3670200**	LED Yellow	LT1H40A		SOLO17		
*	LD318	**V3670200**	LED Yellow	LT1H40A		SOLO18		
*	LD319	**V3670200**	LED Yellow	LT1H40A		SOLO19		
*	LD320	**V3670200**	LED Yellow	LT1H40A		SOLO20		
*	LD321	**V3670200**	LED Yellow	LT1H40A		SOLO21		
*	LD322	**V3670200**	LED Yellow	LT1H40A		SOLO22		
*	LD323	**V3670200**	LED Yellow	LT1H40A		SOLO23		
*	LD324	**V3670200**	LED Yellow	LT1H40A		SOLO24		
*	LD325	**V3670200**	LED Yellow	LT1H40A		GATE ON (DYNAMICS)		
*	LD326	**V3670200**	LED Yellow	LT1H40A		COMP ON (DYNAMICS)		
*	LD328	**V3670200**	LED Yellow	LT1H40A		GATE (DYNAMICS)		
*	LD329	**V3670200**	LED Yellow	LT1H40A		COMP (DYNAMICS)		
*	LD331	**V3670200**	LED Yellow	LT1H40A		Ø (PHASE/INSERT)		
*	LD332	**V3670200**	LED Yellow	LT1H40A		INSERT ON (PHASE/INSERT)		
*	LD333	**V3670100**	LED Yellow/Green	LT1E40A		SEL17		
*	LD334	**V3670100**	LED Yellow/Green	LT1E40A		SEL18		
*	LD335	**V3670100**	LED Yellow/Green	LT1E40A		SEL19		
*	LD336	**V3670100**	LED Yellow/Green	LT1E40A		SEL20		
*	LD337	**V3670100**	LED Yellow/Green	LT1E40A		SEL21		
*	LD338	**V3670100**	LED Yellow/Green	LT1E40A		SEL22		
*	LD339	**V3670100**	LED Yellow/Green	LT1E40A		SEL23		
*	LD340	**V3670100**	LED Yellow/Green	LT1E40A		SEL24		
*	LD341	**V3670200**	LED Yellow	LT1H40A		ON1 (AUX/MATRIX SEND)		
*	LD342	**V3670200**	LED Yellow	LT1H40A		ON2 (AUX/MATRIX SEND)		
*	LD343	**V3670200**	LED Yellow	LT1H40A		ON3 (AUX/MATRIX SEND)		
*	LD344	**V3670200**	LED Yellow	LT1H40A		ON4 (AUX/MATRIX SEND)		
*	LD346	**V3670200**	LED Yellow	LT1H40A		AUX1/MATRIX1		
*	LD347	**V3670200**	LED Yellow	LT1H40A		AUX5 (AUX/MATRIX SEND)		
*	LD348	**V3670200**	LED Yellow	LT1H40A		AUX9 (AUX/MATRIX SEND)		
*	LD349	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO17		
*	LD350	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO18		
*	LD351	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO19		
*	LD352	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO20		
*	LD353	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO21		
*	LD354	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO22		
*	LD355	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO23		
*	LD356	**V7647400**	LED Yellow-Green/Red	LT1ED67A		AUTO24		
*	LD357	**V3670200**	LED Yellow	LT1H40A		STEREO (ROUTING)		
*	LD358	**V3670200**	LED Yellow	LT1H40A		DIRECT (ROUTING)		
*	LD359	**V3670200**	LED Yellow	LT1H40A		FOLLOW PAN (ROUTING)		
*	LD360	**V3670100**	LED Yellow/Green	LT1E40A		1-24 (LAYER)		
*	LD361	**V3670100**	LED Yellow/Green	LT1E40A		25-48 (LAYER)		
*	LD362	**V3670100**	LED Yellow/Green	LT1E40A		49-72 (LAYER)		
*	LD363	**V3670100**	LED Yellow/Green	LT1E40A		73-96 (LAYER)		
*	LD364	**V3670100**	LED Yellow/Green	LT1E40A		MASTER (LAYER)		
*	LD373	**V3670200**	LED Yellow	LT1H40A		1 (ROUTING)		
*	LD374	**V3670200**	LED Yellow	LT1H40A		2 (ROUTING)		
*	LD375	**V3670200**	LED Yellow	LT1H40A		3 (ROUTING)		
*	LD376	**V3670200**	LED Yellow	LT1H40A		4 (ROUTING)		
*	LD377	**V3670200**	LED Yellow	LT1H40A		5 (ROUTING)		
*	LD378	**V3670200**	LED Yellow	LT1H40A		6 (ROUTING)		
*	LD379	**V3670200**	LED Yellow	LT1H40A		7 (ROUTING)		
*	LD380	**V3670200**	LED Yellow	LT1H40A		8 (ROUTING)		
*	LD381	**V3670200**	LED Yellow	LT1H40A		dB (EQUALIZER LOW)		
*	LD382	**V3670200**	LED Yellow	LT1H40A		dB (EQUALIZER LOW-MID)		
*	LD383	**V3670200**	LED Yellow	LT1H40A		dB (EQUALIZER HIGH-MID)		
*	LD384	**V3670200**	LED Yellow	LT1H40A		dB (EQUALIZER HIGH)		

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD385	**V3670200**	LED Yellow	LT1H40A		Hz (EQUALIZER LOW)		
*	LD386	**V3670200**	LED Yellow	LT1H40A		Hz (EQUALIZER LOW-MID)		
*	LD387	**V3670200**	LED Yellow	LT1H40A		Hz (EQUALIZER HIGH-MID)		
*	LD388	**V3670200**	LED Yellow	LT1H40A		Hz (EQUALIZER HIGH)		
*	LD389	**V3670200**	LED Yellow	LT1H40A		kHz (EQUALIZER LOW)		
*	LD390	**V3670200**	LED Yellow	LT1H40A		kHz (EQUALIZER LOW-MID)		
*	LD391	**V3670200**	LED Yellow	LT1H40A		kHz (EQUALIZER HIGH-MID)		
*	LD392	**V3670200**	LED Yellow	LT1H40A		kHz (EQUALIZER HIGH)		
*	LD397	**V3670200**	LED Yellow	LT1H40A		FREQ. (EQUALIZER LOW)		
*	LD398	**V3670200**	LED Yellow	LT1H40A		FREQ. (EQUALIZER LOW-MID)		
*	LD399	**V3670200**	LED Yellow	LT1H40A		FREQ. (EQUALIZER HIGH-MID)		
*	LD400	**V3670200**	LED Yellow	LT1H40A		FREQ. (EQUALIZER HIGH)		
*	LD401	**V3670200**	LED Yellow	LT1H40A		Q (EQUALIZER LOW)		
*	LD402	**V3670200**	LED Yellow	LT1H40A		Q (EQUALIZER LOW-MID)		
*	LD403	**V3670200**	LED Yellow	LT1H40A		Q (EQUALIZER HIGH-MID)		
*	LD404	**V3670200**	LED Yellow	LT1H40A		Q (EQUALIZER HIGH)		
*	LD405	**V3670200**	LED Yellow	LT1H40A		EQ ON (EQUALIZER)		
*	LD409	**V3670200**	LED Yellow	LT1H40A		ON (DELAY)		
*	LD411	**V3670200**	LED Yellow	LT1H40A		MIX (DELAY)		
*	LD412	**V3670200**	LED Yellow	LT1H40A		FB (DELAY)		
*	LD413	**V3670200**	LED Yellow	LT1H40A		PAN1 (PAN/SURROUND)		
*	LD414	**V3670200**	LED Yellow	LT1H40A		PAN2 (PAN/SURROUND)		
*	LD415	**V3670200**	LED Yellow	LT1H40A		PAN3 (PAN/SURROUND)		
*	LD416	**V3670200**	LED Yellow	LT1H40A		PAN4 (PAN/SURROUND)		
*	LD417	**V3670200**	LED Yellow	LT1H40A		PAN5 (PAN/SURROUND)		
*	LD418	**V3670200**	LED Yellow	LT1H40A		PAN6 (PAN/SURROUND)		
*	LD419	**V3670200**	LED Yellow	LT1H40A		PAN7 (PAN/SURROUND)		
*	LD420	**V3670200**	LED Yellow	LT1H40A		PAN8 (PAN/SURROUND)		
*	LD421	**V3670200**	LED Yellow	LT1H40A		PAN9 (PAN/SURROUND)		
*	LD422	**V3670200**	LED Yellow	LT1H40A		PAN10 (PAN/SURROUND)		
*	LD423	**V3670200**	LED Yellow	LT1H40A		L (PAN/SURROUND)		
*	LD424	**V3670200**	LED Yellow	LT1H40A		R (PAN/SURROUND)		
*	LD425	**V3670200**	LED Yellow	LT1H40A		LINK (PAN/SURROUND)		
*	LD426	**V3670200**	LED Yellow	LT1H40A		GRAB (PAN/SURROUND)		
*	LD427	**V3670200**	LED Yellow	LT1H40A		EFFECT (PAN/SURROUND)		
*	LD429	**V3673800**	LED Display	7 SEG.		EQUALIZER LOW		
*	LD430	**V3673800**	LED Display	7 SEG.		EQUALIZER LOW-MID		
*	LD431	**V3673800**	LED Display	7 SEG.		EQUALIZER HIGH-MID		
*	LD432	**V3673800**	LED Display	7 SEG.		EQUALIZER HIGH		
	R301	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	-332	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R334	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-361	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R362	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R363	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-368	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R369	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA301	**RE047100**	Resistor Array	10KX4				01
	-306	**RE047100**	Resistor Array	10KX4				01
	SW301	**VV056000**	Tact Switch	SKQNAED010		ON17		01
	SW302	**VV056000**	Tact Switch	SKQNAED010		ON18		01
	SW303	**VV056000**	Tact Switch	SKQNAED010		ON19		01
	SW304	**VV056000**	Tact Switch	SKQNAED010		ON20		01
	SW305	**VV056000**	Tact Switch	SKQNAED010		ON21		01
	SW306	**VV056000**	Tact Switch	SKQNAED010		ON22		01
	SW307	**VV056000**	Tact Switch	SKQNAED010		ON23		01
	SW308	**VV056000**	Tact Switch	SKQNAED010		ON24		01
	SW310	**VV056000**	Tact Switch	SKQNAED010		AUTO (STEREO)		01
	SW311	**VV056000**	Tact Switch	SKQNAED010		SEL (STEREO)		01
	SW312	**VV056000**	Tact Switch	SKQNAED010		ON (STEREO)		01
	SW313	**VV056000**	Tact Switch	SKQNAED010		REMOTE1 (LAYER)		01
	SW314	**VV056000**	Tact Switch	SKQNAED010		REMOTE2 (LAYER)		01
	SW315	**VV056000**	Tact Switch	SKQNAED010		REMOTE3 (LAYER)		01
	SW316	**VV056000**	Tact Switch	SKQNAED010		REMOTE4 (LAYER)		01
	SW317	**VV056000**	Tact Switch	SKQNAED010		SOLO17		01
	SW318	**VV056000**	Tact Switch	SKQNAED010		SOLO18		01
	SW319	**VV056000**	Tact Switch	SKQNAED010		SOLO19		01
	SW320	**VV056000**	Tact Switch	SKQNAED010		SOLO20		01
	SW321	**VV056000**	Tact Switch	SKQNAED010		SOLO21		01
	SW322	**VV056000**	Tact Switch	SKQNAED010		SOLO22		01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	SW323	**VV056000**	Tact Switch	SKQNAED010		SOLO23		01
	SW324	**VV056000**	Tact Switch	SKQNAED010		SOLO24		01
	SW325	**VV056000**	Tact Switch	SKQNAED010		GATE ON (DYNAMICS)		01
	SW326	**VV056000**	Tact Switch	SKQNAED010		COMP ON (DYNAMICS)		01
	SW327	**VV056000**	Tact Switch	SKQNAED010		GATE/COMP (DYNAMICS)		01
	SW331	**VV056000**	Tact Switch	SKQNAED010		Ø (PHASE/INSERT)		01
	SW332	**VV056000**	Tact Switch	SKQNAED010		INSERT ON (PHASE/INSERT)		01
	SW333	**VV056000**	Tact Switch	SKQNAED010		SEL17		01
	SW334	**VV056000**	Tact Switch	SKQNAED010		SEL18		01
	SW335	**VV056000**	Tact Switch	SKQNAED010		SEL19		01
	SW336	**VV056000**	Tact Switch	SKQNAED010		SEL20		01
	SW337	**VV056000**	Tact Switch	SKQNAED010		SEL21		01
	SW338	**VV056000**	Tact Switch	SKQNAED010		SEL22		01
	SW339	**VV056000**	Tact Switch	SKQNAED010		SEL23		01
	SW340	**VV056000**	Tact Switch	SKQNAED010		SEL24		01
	SW341	**VV056000**	Tact Switch	SKQNAED010		ON1 (AUX/MATRIX SEND)		01
	SW342	**VV056000**	Tact Switch	SKQNAED010		ON2 (AUX/MATRIX SEND)		01
	SW343	**VV056000**	Tact Switch	SKQNAED010		ON3 (AUX/MATRIX SEND)		01
	SW344	**VV056000**	Tact Switch	SKQNAED010		ON4 (AUX/MATRIX SEND)		01
	SW345	**VV056000**	Tact Switch	SKQNAED010		BANK (AUX/MATRIX SEND)		01
	SW349	**VV056000**	Tact Switch	SKQNAED010		AUTO17		01
	SW350	**VV056000**	Tact Switch	SKQNAED010		AUTO18		01
	SW351	**VV056000**	Tact Switch	SKQNAED010		AUTO19		01
	SW352	**VV056000**	Tact Switch	SKQNAED010		AUTO20		01
	SW353	**VV056000**	Tact Switch	SKQNAED010		AUTO21		01
	SW354	**VV056000**	Tact Switch	SKQNAED010		AUTO22		01
	SW355	**VV056000**	Tact Switch	SKQNAED010		AUTO23		01
	SW356	**VV056000**	Tact Switch	SKQNAED010		AUTO24		01
	SW357	**VV056000**	Tact Switch	SKQNAED010		STEREO (ROUTING)		01
	SW358	**VV056000**	Tact Switch	SKQNAED010		DIRECT (ROUTING)		01
	SW359	**VV056000**	Tact Switch	SKQNAED010		FOLLOW PAN (ROUTING)		01
	SW360	**VV056000**	Tact Switch	SKQNAED010		1-24 (LAYER)		01
	SW361	**VV056000**	Tact Switch	SKQNAED010		25-48 (LAYER)		01
	SW362	**VV056000**	Tact Switch	SKQNAED010		49-72 (LAYER)		01
	SW363	**VV056000**	Tact Switch	SKQNAED010		73-96 (LAYER)		01
	SW364	**VV056000**	Tact Switch	SKQNAED010		MASTER (LAYER)		01
	SW373	**VV056000**	Tact Switch	SKQNAED010		1 (ROUTING)		01
	SW374	**VV056000**	Tact Switch	SKQNAED010		2 (ROUTING)		01
	SW375	**VV056000**	Tact Switch	SKQNAED010		3 (ROUTING)		01
	SW376	**VV056000**	Tact Switch	SKQNAED010		4 (ROUTING)		01
	SW377	**VV056000**	Tact Switch	SKQNAED010		5 (ROUTING)		01
	SW378	**VV056000**	Tact Switch	SKQNAED010		6 (ROUTING)		01
	SW379	**VV056000**	Tact Switch	SKQNAED010		7 (ROUTING)		01
	SW380	**VV056000**	Tact Switch	SKQNAED010		8 (ROUTING)		01
	SW405	**VV056000**	Tact Switch	SKQNAED010		EQ ON (EQUALIZER)		01
	SW406	**VV056000**	Tact Switch	SKQNAED010		COPY (CHANNEL)		01
	SW407	**VV056000**	Tact Switch	SKQNAED010		PASTE (CHANNEL)		01
	SW409	**VV056000**	Tact Switch	SKQNAED010		ON (DELAY)		01
	SW413	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (ROUTING)		01
	SW414	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (DYNAMICS)		01
	SW415	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (PAN/SURROUND)		01
	SW416	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (EQUALIZER)		01
	SW417	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (PHASE/INSERT)		01
	SW418	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (AUX/MATRIX SEND)		01
	SW419	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (DELAY)		01
	SW423	**VV056000**	Tact Switch	SKQNAED010		L (PAN/SURROUND)		01
	SW424	**VV056000**	Tact Switch	SKQNAED010		R (PAN/SURROUND)		01
	SW425	**VV056000**	Tact Switch	SKQNAED010		LINK (PAN/SURROUND)		01
	SW426	**VV056000**	Tact Switch	SKQNAED010		GRAB (PAN/SURROUND)		01
	SW427	**VV056000**	Tact Switch	SKQNAED010		EFFECT (PAN/SURROUND)		01
	TA301	**VQ248400**	Transistor Array	TD62783AF				04
	-304	**VQ248400**	Transistor Array	TD62783AF				04
	TA305	**VY703900**	Transistor Array	TD62309F(EL)				04
	-309	**VY703900**	Transistor Array	TD62309F(EL)				04
*	VR301	**V3674400**	Stick Controller			JOY STICK		
*	W302	**V8391900**	Jumper Wire	FVP=2.0C26SB10-600				
*		**V6286500**	Circuit Board	DM2K PN3		(XZ028B0)		
*	50	**V6197400**	Button Dark Gray	LENS		1-24(TRACK ARMING),MASTER	25	
*	60	**V8487100**	Button M_Gray	LENS		A-D(TRACK ARMING GROUP),	74	

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
						ENABLE,ABORT/UNDO,RETURN, RELATIVE,TOUCH SENSE, 1-16(USER DEFINED KEYS), OVERWRITE,LOCATOR,STUDIO, CONTROL ROOM,SLATE		
*	80	**V8487300**	Button Red	LENS		REC,AUTO-REC	2	
*	100	**V8487500**	Button M_Gray	S		ALL CLEAR,CLEAR	2	
*	110	**V8487600**	Button Light Gray	S		DISPLAY	6	
*	140	**V4166800**	Button Light Gray	LENS CURSOR		TALKBACK		
*	160	**V8488000**	Button M_Gray	CURSOR		STORE,RECALL	2	
*	260	**V8489600**	Button M_Gray	CURSOR		Cursor Up		
*	270	**V8489700**	Button M_Gray	CURSOR		Cursor Down		
	C502	**UF028100**	Electrolytic Cap. (chip)	100 10V				01
	C503	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	C504	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-512	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C513	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	-515	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C516	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-518	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C520	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-523	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C600	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	CN501	**VQ045500**	Connector, FFC	52044 26P SE				02
	CN502	**VK026900**	Wire Trap	52151 10P SE				01
	CN503	**VQ045500**	Connector, FFC	52044 26P SE				02
	CN504	**VI878200**	Cable Holder	51048 4P TE				01
	CN505	**VB390200**	Connector Base Post	PH 6P TE				01
	CN506	**VI878700**	Cable Holder	51048 9P TE				01
	D501	**VT332900**	Diode	1SS355 TE-17				01
	-529	**VT332900**	Diode	1SS355 TE-17				01
	D531	**VT332900**	Diode	1SS355 TE-17				01
	D533	**VT332900**	Diode	1SS355 TE-17				01
	-544	**VT332900**	Diode	1SS355 TE-17				01
	D546	**VT332900**	Diode	1SS355 TE-17				01
	D549	**VT332900**	Diode	1SS355 TE-17				01
	-563	**VT332900**	Diode	1SS355 TE-17				01
	D565	**VT332900**	Diode	1SS355 TE-17				01
	-571	**VT332900**	Diode	1SS355 TE-17				01
	D573	**VT332900**	Diode	1SS355 TE-17				01
	-579	**VT332900**	Diode	1SS355 TE-17				01
	D581	**VT332900**	Diode	1SS355 TE-17				01
	-618	**VT332900**	Diode	1SS355 TE-17				01
	D621	**VT332900**	Diode	1SS355 TE-17				01
	-624	**VT332900**	Diode	1SS355 TE-17				01
	EM501	**FZ006970**	LC Filter	MTY223NBTBM				02
	-503	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC501	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC502	**XT163A00**	IC	TC74HC238AF		TRANSCEIVER		03
*	IC503	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
*	-506	**IS059500**	IC	HD74LV595AFPEL		REGISTER		
*	IC507	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
*	-509	**IS016500**	IC	HD74LV165AFPEL		REGISTER		
	IC510	**XP004A00**	IC	TC7W04FU		INVERTER		02
*	LD501	**V3670000**	LED Red	LT1D40A		1 (TRACK ARMING)		
*	LD502	**V3670000**	LED Red	LT1D40A		2 (TRACK ARMING)		
*	LD503	**V3670000**	LED Red	LT1D40A		3 (TRACK ARMING)		
*	LD504	**V3670000**	LED Red	LT1D40A		4 (TRACK ARMING)		
*	LD505	**V3670000**	LED Red	LT1D40A		5 (TRACK ARMING)		
*	LD506	**V3670000**	LED Red	LT1D40A		6 (TRACK ARMING)		
*	LD507	**V3670000**	LED Red	LT1D40A		7 (TRACK ARMING)		
*	LD508	**V3670000**	LED Red	LT1D40A		8 (TRACK ARMING)		
*	LD509	**V3670000**	LED Red	LT1D40A		9 (TRACK ARMING)		
*	LD510	**V3670000**	LED Red	LT1D40A		10 (TRACK ARMING)		
*	LD511	**V3670000**	LED Red	LT1D40A		11 (TRACK ARMING)		
*	LD512	**V3670000**	LED Red	LT1D40A		12 (TRACK ARMING)		
*	LD513	**V3670000**	LED Red	LT1D40A		13 (TRACK ARMING)		
*	LD514	**V3670000**	LED Red	LT1D40A		14 (TRACK ARMING)		
*	LD515	**V3670000**	LED Red	LT1D40A		15 (TRACK ARMING)		
*	LD516	**V3670000**	LED Red	LT1D40A		16 (TRACK ARMING)		

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD517	**V3670000**	LED Red	LT1D40A		17 (TRACK ARMING)		
*	LD518	**V3670000**	LED Red	LT1D40A		18 (TRACK ARMING)		
*	LD519	**V3670000**	LED Red	LT1D40A		19 (TRACK ARMING)		
*	LD520	**V3670000**	LED Red	LT1D40A		20 (TRACK ARMING)		
*	LD521	**V3670000**	LED Red	LT1D40A		21 (TRACK ARMING)		
*	LD522	**V3670000**	LED Red	LT1D40A		22 (TRACK ARMING)		
*	LD523	**V3670000**	LED Red	LT1D40A		23 (TRACK ARMING)		
*	LD524	**V3670000**	LED Red	LT1D40A		24 (TRACK ARMING)		
*	LD525	**V3670200**	LED Yellow	LT1H40A		A (TRACK ARMING GROUP)		
*	LD526	**V3670200**	LED Yellow	LT1H40A		B (TRACK ARMING GROUP)		
*	LD527	**V3670200**	LED Yellow	LT1H40A		C (TRACK ARMING GROUP)		
*	LD528	**V3670200**	LED Yellow	LT1H40A		D (TRACK ARMING GROUP)		
*	LD531	**V3670000**	LED Red	LT1D40A		MASTER (TRACK ARMING)		
*	LD533	**V3670200**	LED Yellow	LT1H40A		1 (LOCATE MEMORY)		
*	LD534	**V3670200**	LED Yellow	LT1H40A		2 (LOCATE MEMORY)		
*	LD535	**V3670200**	LED Yellow	LT1H40A		3 (LOCATE MEMORY)		
*	LD536	**V3670200**	LED Yellow	LT1H40A		4 (LOCATE MEMORY)		
*	LD537	**V3670200**	LED Yellow	LT1H40A		5 (LOCATE MEMORY)		
*	LD538	**V3670200**	LED Yellow	LT1H40A		6 (LOCATE MEMORY)		
*	LD539	**V3670200**	LED Yellow	LT1H40A		7 (LOCATE MEMORY)		
*	LD540	**V3670200**	LED Yellow	LT1H40A		8 (LOCATE MEMORY)		
*	LD541	**V3670200**	LED Yellow	LT1H40A		CONTROL ROOM (MONITOR)		
*	LD542	**V3670200**	LED Yellow	LT1H40A		STEREO (MONITOR)		
*	LD543	**V3670200**	LED Yellow	LT1H40A		AUX11 (MONITOR)		
*	LD544	**V3670200**	LED Yellow	LT1H40A		AUX12 (MONITOR)		
*	LD545	**V3670000**	LED Red	LT1D40A		SOLO (MONITOR)		
*	LD549	**V3670200**	LED Yellow	LT1H40A		AUDITION (LOCATOR)		
*	LD550	**V3670200**	LED Yellow	LT1H40A		PRE (LOCATOR)		
*	LD551	**V3670200**	LED Yellow	LT1H40A		IN (LOCATOR)		
*	LD552	**V3670200**	LED Yellow	LT1H40A		OUT (LOCATOR)		
*	LD553	**V3670200**	LED Yellow	LT1H40A		POST (LOCATOR)		
*	LD554	**V3670200**	LED Yellow	LT1H40A		SET (LOCATOR)		
*	LD555	**V3670200**	LED Yellow	LT1H40A		MTR (LOCATOR)		
*	LD556	**V3670200**	LED Yellow	LT1H40A		MASTER (LOCATOR)		
*	LD557	**V3670200**	LED Yellow	LT1H40A		RETURN TO ZERO (LOCATOR)		
*	LD558	**V3670200**	LED Yellow	LT1H40A		END (LOCATOR)		
*	LD559	**V3670200**	LED Yellow	LT1H40A		ONLINE (LOCATOR)		
*	LD560	**V3670200**	LED Yellow	LT1H40A		LOOP (LOCATOR)		
*	LD561	**V3670200**	LED Yellow	LT1H40A		QUICK PUNCH (LOCATOR)		
*	LD562	**V3670200**	LED Yellow	LT1H40A		ROLL BACK (LOCATOR)		
*	LD563	**V3670200**	LED Yellow	LT1H40A		REHEARSAL (LOCATOR)		
*	LD565	**V3670200**	LED Yellow	LT1H40A		ENABLE (AUTOMIX)		
*	LD566	**V3670000**	LED Red	LT1D40A		REC (AUTOMIX)		
*	LD567	**V3670200**	LED Yellow	LT1H40A		ABORT/UNDO (AUTOMIX)		
*	LD568	**V3670000**	LED Red	LT1D40A		AUTO-REC (AUTOMIX)		
*	LD569	**V3670200**	LED Yellow	LT1H40A		RETURN (AUTOMIX)		
*	LD570	**V3670200**	LED Yellow	LT1H40A		RELATIVE (AUTOMIX)		
*	LD571	**V3670200**	LED Yellow	LT1H40A		TOUCH SENSE (AUTOMIX)		
*	LD573	**V3670200**	LED Yellow	LT1H40A		FADER (AUTOMIX)		
*	LD574	**V3670200**	LED Yellow	LT1H40A		ON (AUTOMIX)		
*	LD575	**V3670200**	LED Yellow	LT1H40A		PAN (AUTOMIX)		
*	LD576	**V3670200**	LED Yellow	LT1H40A		SURROUND (AUTOMIX)		
*	LD577	**V3670200**	LED Yellow	LT1H40A		AUX (AUTOMIX)		
*	LD578	**V3670200**	LED Yellow	LT1H40A		AUX ON (AUTOMIX)		
*	LD579	**V3670200**	LED Yellow	LT1H40A		EQ (AUTOMIX)		
*	LD581	**V3670200**	LED Yellow	LT1H40A		1 (USER DEFINED KEYS)		
*	LD582	**V3670200**	LED Yellow	LT1H40A		2 (USER DEFINED KEYS)		
*	LD583	**V3670200**	LED Yellow	LT1H40A		3 (USER DEFINED KEYS)		
*	LD584	**V3670200**	LED Yellow	LT1H40A		4 (USER DEFINED KEYS)		
*	LD585	**V3670200**	LED Yellow	LT1H40A		5 (USER DEFINED KEYS)		
*	LD586	**V3670200**	LED Yellow	LT1H40A		6 (USER DEFINED KEYS)		
*	LD587	**V3670200**	LED Yellow	LT1H40A		7 (USER DEFINED KEYS)		
*	LD588	**V3670200**	LED Yellow	LT1H40A		8 (USER DEFINED KEYS)		
*	LD589	**V3670200**	LED Yellow	LT1H40A		9 (USER DEFINED KEYS)		
*	LD590	**V3670200**	LED Yellow	LT1H40A		10 (USER DEFINED KEYS)		
*	LD591	**V3670200**	LED Yellow	LT1H40A		11 (USER DEFINED KEYS)		
*	LD592	**V3670200**	LED Yellow	LT1H40A		12 (USER DEFINED KEYS)		
*	LD593	**V3670200**	LED Yellow	LT1H40A		13 (USER DEFINED KEYS)		
*	LD594	**V3670200**	LED Yellow	LT1H40A		14 (USER DEFINED KEYS)		
*	LD595	**V3670200**	LED Yellow	LT1H40A		15 (USER DEFINED KEYS)		

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD596	**V3670200**	LED Yellow	LT1H40A		16 (USER DEFINED KEYS)		
*	LD597	**V3670200**	LED Yellow	LT1H40A		2TR D1 (MONITOR)		
*	LD598	**V3670200**	LED Yellow	LT1H40A		2TR D2 (MONITOR)		
*	LD599	**V3670200**	LED Yellow	LT1H40A		2TR D3 (MONITOR)		
*	LD600	**V3670200**	LED Yellow	LT1H40A		2TR A1 (MONITOR)		
*	LD601	**V3670200**	LED Yellow	LT1H40A		2TR A2 (MONITOR)		
*	LD602	**V3670200**	LED Yellow	LT1H40A		STEREO (MONITOR)		
*	LD603	**V3670200**	LED Yellow	LT1H40A		ASSIGN1 (MONITOR)		
*	LD604	**V3670200**	LED Yellow	LT1H40A		ASSIGN2 (MONITOR)		
*	LD605	**V3670200**	LED Yellow	LT1H40A		BUS (MONITOR)		
*	LD606	**V3670200**	LED Yellow	LT1H40A		ASSIGN1 (MONITOR)		
*	LD607	**V3670200**	LED Yellow	LT1H40A		ASSIGN2 (MONITOR)		
*	LD608	**V3670200**	LED Yellow	LT1H40A		MONO (MONITOR)		
*	LD609	**V3670200**	LED Yellow	LT1H40A		DIMMER (MONITOR)		
*	LD610	**V3670200**	LED Yellow	LT1H40A		SMALL (MONITOR)		
*	LD611	**V3670200**	LED Yellow	LT1H40A		SLATE (MONITOR)		
*	LD612	**V3670200**	LED Yellow	LT1H40A		TALKBACK (MONITOR)		
*	LD629	**V3674300**	LED Display	7 SEG.		SCENE MEMORY		
	R501	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	-516	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R519	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R520	**RD154330**	Carbon Resistor (chip)	33.0 1/4 J				01
	R527	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-544	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R545	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R546	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-555	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R612	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	RA501	**RE047100**	Resistor Array	10KX4				01
	-506	**RE047100**	Resistor Array	10KX4				01
	SW501	**VV056000**	Tact Switch	SKQNAED010		1 (TRACK ARMING)		01
	SW502	**VV056000**	Tact Switch	SKQNAED010		2 (TRACK ARMING)		01
	SW503	**VV056000**	Tact Switch	SKQNAED010		3 (TRACK ARMING)		01
	SW504	**VV056000**	Tact Switch	SKQNAED010		4 (TRACK ARMING)		01
	SW505	**VV056000**	Tact Switch	SKQNAED010		5 (TRACK ARMING)		01
	SW506	**VV056000**	Tact Switch	SKQNAED010		6 (TRACK ARMING)		01
	SW507	**VV056000**	Tact Switch	SKQNAED010		7 (TRACK ARMING)		01
	SW508	**VV056000**	Tact Switch	SKQNAED010		8 (TRACK ARMING)		01
	SW509	**VV056000**	Tact Switch	SKQNAED010		9 (TRACK ARMING)		01
	SW510	**VV056000**	Tact Switch	SKQNAED010		10 (TRACK ARMING)		01
	SW511	**VV056000**	Tact Switch	SKQNAED010		11 (TRACK ARMING)		01
	SW512	**VV056000**	Tact Switch	SKQNAED010		12 (TRACK ARMING)		01
	SW513	**VV056000**	Tact Switch	SKQNAED010		13 (TRACK ARMING)		01
	SW514	**VV056000**	Tact Switch	SKQNAED010		14 (TRACK ARMING)		01
	SW515	**VV056000**	Tact Switch	SKQNAED010		15 (TRACK ARMING)		01
	SW516	**VV056000**	Tact Switch	SKQNAED010		16 (TRACK ARMING)		01
	SW517	**VV056000**	Tact Switch	SKQNAED010		17 (TRACK ARMING)		01
	SW518	**VV056000**	Tact Switch	SKQNAED010		18 (TRACK ARMING)		01
	SW519	**VV056000**	Tact Switch	SKQNAED010		19 (TRACK ARMING)		01
	SW520	**VV056000**	Tact Switch	SKQNAED010		20 (TRACK ARMING)		01
	SW521	**VV056000**	Tact Switch	SKQNAED010		21 (TRACK ARMING)		01
	SW522	**VV056000**	Tact Switch	SKQNAED010		22 (TRACK ARMING)		01
	SW523	**VV056000**	Tact Switch	SKQNAED010		23 (TRACK ARMING)		01
	SW524	**VV056000**	Tact Switch	SKQNAED010		24 (TRACK ARMING)		01
	SW525	**VV056000**	Tact Switch	SKQNAED010		A (TRACK ARMING GROUP)		01
	SW526	**VV056000**	Tact Switch	SKQNAED010		B (TRACK ARMING GROUP)		01
	SW527	**VV056000**	Tact Switch	SKQNAED010		C (TRACK ARMING GROUP)		01
	SW528	**VV056000**	Tact Switch	SKQNAED010		D (TRACK ARMING GROUP)		01
	SW529	**VV056000**	Tact Switch	SKQNAED010		ALL CLEAR (TRACK ARMING)		01
	SW531	**VV056000**	Tact Switch	SKQNAED010		MASTER (TRACK ARMING)		01
	SW533	**VV056000**	Tact Switch	SKQNAED010		1 (LOCATE MEMORY)		01
	SW534	**VV056000**	Tact Switch	SKQNAED010		2 (LOCATE MEMORY)		01
	SW535	**VV056000**	Tact Switch	SKQNAED010		3 (LOCATE MEMORY)		01
	SW536	**VV056000**	Tact Switch	SKQNAED010		4 (LOCATE MEMORY)		01
	SW537	**VV056000**	Tact Switch	SKQNAED010		5 (LOCATE MEMORY)		01
	SW538	**VV056000**	Tact Switch	SKQNAED010		6 (LOCATE MEMORY)		01
	SW539	**VV056000**	Tact Switch	SKQNAED010		7 (LOCATE MEMORY)		01
	SW540	**VV056000**	Tact Switch	SKQNAED010		8 (LOCATE MEMORY)		01
	SW541	**VV056000**	Tact Switch	SKQNAED010		CONTROL ROOM (MONITOR)		01
	SW542	**VV056000**	Tact Switch	SKQNAED010		STEREO (MONITOR)		01

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
SW543	**VV056000**	Tact Switch	SKQNAED010		AUX11 (MONITOR)		01
SW544	**VV056000**	Tact Switch	SKQNAED010		AUX12 (MONITOR)		01
SW546	**VV056000**	Tact Switch	SKQNAED010		CLEAR (MONITOR)		01
SW549	**VV056000**	Tact Switch	SKQNAED010		AUDITION (LOCATOR)		01
SW550	**VV056000**	Tact Switch	SKQNAED010		PRE (LOCATOR)		01
SW551	**VV056000**	Tact Switch	SKQNAED010		IN (LOCATOR)		01
SW552	**VV056000**	Tact Switch	SKQNAED010		OUT (LOCATOR)		01
SW553	**VV056000**	Tact Switch	SKQNAED010		POST (LOCATOR)		01
SW554	**VV056000**	Tact Switch	SKQNAED010		SET (LOCATOR)		01
SW555	**VV056000**	Tact Switch	SKQNAED010		MTR (LOCATOR)		01
SW556	**VV056000**	Tact Switch	SKQNAED010		MASTER (LOCATOR)		01
SW557	**VV056000**	Tact Switch	SKQNAED010		RETURN TO ZERO (LOCATOR)		01
SW558	**VV056000**	Tact Switch	SKQNAED010		END (LOCATOR)		01
SW559	**VV056000**	Tact Switch	SKQNAED010		ONLINE (LOCATOR)		01
SW560	**VV056000**	Tact Switch	SKQNAED010		LOOP (LOCATOR)		01
SW561	**VV056000**	Tact Switch	SKQNAED010		QUICK PUNCH (LOCATOR)		01
SW562	**VV056000**	Tact Switch	SKQNAED010		ROLL BACK (LOCATOR)		01
SW563	**VV056000**	Tact Switch	SKQNAED010		REHEARSAL (LOCATOR)		01
SW565	**VV056000**	Tact Switch	SKQNAED010		ENABLE (AUTOMIX)		01
SW566	**VV056000**	Tact Switch	SKQNAED010		REC (AUTOMIX)		01
SW567	**VV056000**	Tact Switch	SKQNAED010		ABORT/UNDO (AUTOMIX)		01
SW568	**VV056000**	Tact Switch	SKQNAED010		AUTO-REC (AUTOMIX)		01
SW569	**VV056000**	Tact Switch	SKQNAED010		RETURN (AUTOMIX)		01
SW570	**VV056000**	Tact Switch	SKQNAED010		RELATIVE (AUTOMIX)		01
SW571	**VV056000**	Tact Switch	SKQNAED010		TOUCH SENSE (AUTOMIX)		01
SW573	**VV056000**	Tact Switch	SKQNAED010		FADER (AUTOMIX)		01
SW574	**VV056000**	Tact Switch	SKQNAED010		ON (AUTOMIX)		01
SW575	**VV056000**	Tact Switch	SKQNAED010		PAN (AUTOMIX)		01
SW576	**VV056000**	Tact Switch	SKQNAED010		SURROUND (AUTOMIX)		01
SW577	**VV056000**	Tact Switch	SKQNAED010		AUX (AUTOMIX)		01
SW578	**VV056000**	Tact Switch	SKQNAED010		AUX ON (AUTOMIX)		01
SW579	**VV056000**	Tact Switch	SKQNAED010		EQ (AUTOMIX)		01
SW581	**VV056000**	Tact Switch	SKQNAED010		1 (USER DEFINED KEYS)		01
SW582	**VV056000**	Tact Switch	SKQNAED010		2 (USER DEFINED KEYS)		01
SW583	**VV056000**	Tact Switch	SKQNAED010		3 (USER DEFINED KEYS)		01
SW584	**VV056000**	Tact Switch	SKQNAED010		4 (USER DEFINED KEYS)		01
SW585	**VV056000**	Tact Switch	SKQNAED010		5 (USER DEFINED KEYS)		01
SW586	**VV056000**	Tact Switch	SKQNAED010		6 (USER DEFINED KEYS)		01
SW587	**VV056000**	Tact Switch	SKQNAED010		7 (USER DEFINED KEYS)		01
SW588	**VV056000**	Tact Switch	SKQNAED010		8 (USER DEFINED KEYS)		01
SW589	**VV056000**	Tact Switch	SKQNAED010		9 (USER DEFINED KEYS)		01
SW590	**VV056000**	Tact Switch	SKQNAED010		10 (USER DEFINED KEYS)		01
SW591	**VV056000**	Tact Switch	SKQNAED010		11 (USER DEFINED KEYS)		01
SW592	**VV056000**	Tact Switch	SKQNAED010		12 (USER DEFINED KEYS)		01
SW593	**VV056000**	Tact Switch	SKQNAED010		13 (USER DEFINED KEYS)		01
SW594	**VV056000**	Tact Switch	SKQNAED010		14 (USER DEFINED KEYS)		01
SW595	**VV056000**	Tact Switch	SKQNAED010		15 (USER DEFINED KEYS)		01
SW596	**VV056000**	Tact Switch	SKQNAED010		16 (USER DEFINED KEYS)		01
SW597	**VV056000**	Tact Switch	SKQNAED010		2TR D1 (MONITOR)		01
SW598	**VV056000**	Tact Switch	SKQNAED010		2TR D2 (MONITOR)		01
SW599	**VV056000**	Tact Switch	SKQNAED010		2TR D3 (MONITOR)		01
SW600	**VV056000**	Tact Switch	SKQNAED010		2TR A1 (MONITOR)		01
SW601	**VV056000**	Tact Switch	SKQNAED010		2TR A2 (MONITOR)		01
SW602	**VV056000**	Tact Switch	SKQNAED010		STEREO (MONITOR)		01
SW603	**VV056000**	Tact Switch	SKQNAED010		ASSIGN1 (MONITOR)		01
SW604	**VV056000**	Tact Switch	SKQNAED010		ASSIGN2 (MONITOR)		01
SW605	**VV056000**	Tact Switch	SKQNAED010		BUS (MONITOR)		01
SW606	**VV056000**	Tact Switch	SKQNAED010		ASSIGN1 (MONITOR)		01
SW607	**VV056000**	Tact Switch	SKQNAED010		ASSIGN2 (MONITOR)		01
SW608	**VV056000**	Tact Switch	SKQNAED010		MONO (MONITOR)		01
SW609	**VV056000**	Tact Switch	SKQNAED010		DIMMER (MONITOR)		01
SW610	**VV056000**	Tact Switch	SKQNAED010		SMALL (MONITOR)		01
SW611	**VV056000**	Tact Switch	SKQNAED010		SLATE (MONITOR)		01
SW612	**VR531200**	Push Switch	ML1A-11JW		TALKBACK (MONITOR)		02
SW613	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (TRACK ARMING)		01
SW614	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (SCENE MEMORY)		01
SW615	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (AUTOMIX)		01
SW616	**VV056000**	Tact Switch	SKQNAED010		DISPLAY(USER DEFINED KEYS)		01
SW617	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (LOCATOR)		01
SW618	**VV056000**	Tact Switch	SKQNAED010		DISPLAY (MONITOR)		01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	SW621	**VR531200**	Push Switch	ML1A-11JW		STORE (SCENE MEMORY)		02
	SW622	**VR531200**	Push Switch	ML1A-11JW		RECALL (SCENE MEMORY)		02
	SW623	**VR531200**	Push Switch	ML1A-11JW		Cursor Up (SCENE MEMORY)		02
	SW624	**VR531200**	Push Switch	ML1A-11JW		Cursor Down(SCENE MEMORY)		02
	TA501	**VQ248400**	Transistor Array	TD62783AF				04
	-503	**VQ248400**	Transistor Array	TD62783AF				04
	TA505	**VY703900**	Transistor Array	TD62309F(EL)				04
	-507	**VY703900**	Transistor Array	TD62309F(EL)				04
	TR612	**VV655400**	Digital Transistor	DTC114EKA TP				01
	VR501	**VQ670500**	Rotary Pot.	B 10K RK11K1130		SOLO CONTRAST		02
	VR502	**VQ670500**	Rotary Pot.	B 10K RK11K1130		SURROUND MONITOR LEVEL		02
	VR503	**VZ583900**	Rotary Variable Resistor	A 20.0K RK14K12C0		CONTROL ROOM LEVEL		03
*	W504	**V8391400**	Jumper Wire	FVP=2.0C26SB4-100				
*	W506	**VU073200**	Jumper Wire	FVP=2.0C26SB9-350				
*		**V7765300**	Circuit Board	DM2K PN4 (PN4COM)		(V830050)(XZ219B0)		
*		**V6288200**	Circuit Board	DM2K DS (PN4COM)		(V830050)(XZ219B0)		
*	60	**V8487100**	Button M_Gray	LENS		SHUTTLE,SCRUB	2	
*	100	**V8487500**	Button M_Gray	S		BACK,FORWARD	2	
*	150	**V8487900**	Button Light Gray	CURSOR		DEC,INC,ENTER	3	
*	170	**V8488200**	Button Light Gray	LENS CURSOR		REW		
*	180	**V8488400**	Button Light Gray	LENS CURSOR		FF		
*	190	**V8488500**	Button Light Gray	LENS CURSOR		STOP		
*	200	**V8488600**	Button Light Gray	LENS CURSOR		PLAY		
*	210	**V8488800**	Button Light Gray	LENS CURSOR		REC		
*	220	**V8489000**	Button Light Gray	CURSOR		Cursor Left		
*	230	**V8489100**	Button Light Gray	CURSOR		Cursor Right		
*	240	**V8489200**	Button Light Gray	CURSOR		Cursor Up		
*	250	**V8489400**	Button Light Gray	CURSOR		Cursor Down		
	C001	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C002	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C004	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-007	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C011	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C012	**US145100**	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C013	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C014	**US061470**	Ceramic Capacitor-CH(chip)	47P 50V J				01
	-018	**US061470**	Ceramic Capacitor-CH(chip)	47P 50V J				01
	C701	**UF028100**	Electrolytic Cap. (chip)	100 10V				01
	C702	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	CN001	**VK025800**	Wire Trap	52147 14P TE				01
	CN002	**VK025100**	Wire Trap	52147 7P TE				01
	CN003	**V3962800**	Connector	CN015R-3013-0		SMART MEDIA		05
	CN701	**VQ045500**	Connector, FFC	52044 26P SE				02
	CN702	**VI878200**	Cable Holder	51048 4P TE				01
	CN703	**VI878200**	Cable Holder	51048 4P TE				01
	D701	**VT332900**	Diode	1SS355 TE-17				01
	-716	**VT332900**	Diode	1SS355 TE-17				01
*	EC701	**V6225900**	Optical Rotary Encoder	REC16B25-201-K		PARAMETER WHEEL		
	EM001	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM701	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM702	**FZ006970**	LC Filter	MTY223NBTBM				02
	IC001	**XY537A00**	IC	TC74VHC32F(EL)		OR		01
	IC002	**XT487A00**	IC	TC74VHC245F		TRANSCEIVER		03
	IC003	**XT800A00**	IC	TC74VHC244F		BUFFER		03
	IC004	**XY254A00**	IC	TC74VHC273F(EL)		D-FF		03
	IC005	**XM332A00**	IC	TC74VHC04F EL		INVERTER		01
	IC006	**XY537A00**	IC	TC74VHC32F(EL)		OR		01
	L001	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	LD705	**V3670200**	LED Yellow	LT1H40A		SHUTTLE		
*	LD706	**V3670200**	LED Yellow	LT1H40A		SCRUB		
*	LD709	**V3670200**	LED Yellow	LT1H40A		REW		
*	LD710	**V3670200**	LED Yellow	LT1H40A		FF		
*	LD711	**V3670200**	LED Yellow	LT1H40A		STOP		
*	LD712	**V3670100**	LED Yellow/Green	LT1E40A		PLAY		
*	LD713	**V3670000**	LED Red	LT1D40A		REC		
	R001	**RD257220**	Carbon Resistor (chip)	22.0K 0.1 J				01
	R003	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-005	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R006	**RD258470**	Carbon Resistor (chip)	470.0K 0.1 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	-008	**RD258470**	Carbon Resistor (chip)	470.0K 0.1 J				01
	R009	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-011	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R012	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-014	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R015	**RD258100**	Carbon Resistor (chip)	100.0K 0.1 J				01
	R016	**RD155470**	Carbon Resistor (chip)	470.0 1/4 J				
	R017	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R018	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R709	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-713	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	RA001	**RE047220**	Resistor Array	22KX4				01
	-003	**RE047220**	Resistor Array	22KX4				01
	RA004	**RE044680**	Resistor Array	68X4				01
	RA005	**RE044680**	Resistor Array	68X4				01
	RA006	**RE048100**	Resistor Array	100KX4				01
	RA007	**RE044680**	Resistor Array	68X4				01
	RA008	**RE048100**	Resistor Array	100KX4				01
	RA009	**RE044680**	Resistor Array	68X4				01
	RA701	**RE047100**	Resistor Array	10KX4				01
	RA702	**RE047100**	Resistor Array	10KX4				01
	SW701	**VR531200**	Push Switch	ML1A-11JW		Cursor Left		02
	SW702	**VR531200**	Push Switch	ML1A-11JW		Cursor Right		02
	SW703	**VR531200**	Push Switch	ML1A-11JW		Cursor Up		02
	SW704	**VR531200**	Push Switch	ML1A-11JW		Cursor Down		02
	SW705	**VV056000**	Tact Switch	SKQNAED010		SHUTTLE		01
	SW706	**VV056000**	Tact Switch	SKQNAED010		SCRUB		01
	SW707	**VV056000**	Tact Switch	SKQNAED010		BACK (DISPLAY HISTORY)		01
	SW708	**VV056000**	Tact Switch	SKQNAED010		FORWARD (DISPLAY HISTORY)		01
	SW709	**VR531200**	Push Switch	ML1A-11JW		REW		02
	SW710	**VR531200**	Push Switch	ML1A-11JW		FF		02
	SW711	**VR531200**	Push Switch	ML1A-11JW		STOP		02
	SW712	**VR531200**	Push Switch	ML1A-11JW		PLAY		02
	SW713	**VR531200**	Push Switch	ML1A-11JW		REC		02
	SW714	**VR531200**	Push Switch	ML1A-11JW		DEC		02
	SW715	**VR531200**	Push Switch	ML1A-11JW		INC		02
	SW716	**VR531200**	Push Switch	ML1A-11JW		ENTER		02
	TR001	**VJ927200**	Transistor	2SA1162 O,Y				01
	TR709	**VV655400**	Digital Transistor	DTC114EKA TP				01
	-713	**VV655400**	Digital Transistor	DTC114EKA TP				01
*	W702	**V8391400**	Jumper Wire	FVP=2.0C26SB4-100				
*		**V6468800**	Circuit Board	DM2K ST (STCOM)		(V628800)(XZ034A0)		
*		**V6468900**	Circuit Board	DM2K STD (STCOM)		(V628800)(XZ034A0)		
*		**V6435400**	Holder, Phones	x2				
*		**V7539700**	Cannon Angle				2	
	168	**--**	Jumper Wire	0.55		(VA07890)		
	C001	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	-004	**V5829200**	Electrolytic Cap. (chip)	100 20V 20SG100M+T				04
	C101	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C102	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C103	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C104	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C105	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C106	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C107	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C108	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C201	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C202	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C203	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C204	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C205	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C206	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C207	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C208	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C301	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C302	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C303	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C304	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C305	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C306	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C307	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C308	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C309	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C310	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C311	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C312	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C313	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C314	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C401	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C402	**VG277000**	Ceramic Capacitor-SL	33P 50V J				01
	C403	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C404	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C405	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C406	**VT439600**	Monolithic Ceramic Cap.	0.100 50V Z				01
	C407	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C408	**UU147470**	Electrolytic Cap.	47.00 25.0V				01
	C411	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C412	**VF466900**	Ceramic Capacitor-B	470P 50V K				01
	C413	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	C414	**UU168100**	Electrolytic Cap.	100.00 50.0V				01
	CN001	**VB994900**	Base Post Connector	MQ 9P TE				01
	CN002	**VA252400**	Base Post Connector	MQ 12P TE				03
	EM001	**FZ006970**	LC Filter	MTY223NBTBM				02
	-004	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM101	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM102	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM201	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM202	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM301	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM302	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM401	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM402	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM501	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM502	**FZ006920**	LC Filter	MTB271KBTBM				01
	IC101	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC201	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC301	**XP844A00**	IC	NJM4556AL		OP AMP		02
	IC302	**XM356A00**	IC	NJM2068L-D		OP AMP		02
	IC401	**XP844A00**	IC	NJM4556AL		OP AMP		02
	JK101	**VS762900**	Cannon Connector	NC3MAHR		STEREO OUT L		03
	JK201	**VS762900**	Cannon Connector	NC3MAHR		STEREO OUT R		03
	JK301	**VS056300**	Phone Jack	HLJ7001-01		STUDIO MONITOR OUT L		01
	JK401	**VS056300**	Phone Jack	HLJ7001-01		STUDIO MONITOR OUT R		01
	JK501	**VM725600**	Pin Jack	2P E YKC21-3045		STEREO OUT L/R		02
	R101	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R102	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R103	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R104	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R105	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R106	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R107	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R108	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R109	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R110	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R111	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R112	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R113	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R114	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R115	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R116	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R201	**HF454390**	Carbon Resistor	39.0 1/4 J				01
	R202	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R203	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R204	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R205	**HB027110**	Metal Film Resistor	11.0K 1/4 F				
	R206	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R207	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R208	**HB027200**	Metal Film Resistor	20.0K 1/4 F				
	R209	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01

❇: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R210	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R211	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R212	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R213	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R214	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R215	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R216	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R303	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R304	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R305	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R306	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R307	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R308	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R309	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R310	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R311	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R312	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R313	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R314	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R315	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R316	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R317	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R318	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R319	**HB025470**	Metal Film Resistor	470.0 1/4 F				
	R403	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R404	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
*	R405	**V9008100**	Metal Film Resistor	11.5K 1/4 D				
	R406	**HB027100**	Metal Film Resistor	10.0K 1/4 F				
	R407	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
	R408	**HB027180**	Metal Film Resistor	18.0K 1/4 F				01
*	R409	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
*	R410	**HB027160**	Metal Film Resistor	16.0K 1/4 F				
	R411	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R412	**HF454750**	Carbon Resistor	75.0 1/4 J				01
	R413	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R414	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
	R415	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R416	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R417	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
*	R418	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R419	**HB025470**	Metal Film Resistor	470.0 1/4 F				
*	R501	**HB026150**	Metal Film Resistor	1.5K 1/4 F				
*	R502	**HB026150**	Metal Film Resistor	1.5K 1/4 F				
*	R503	**HB026120**	Metal Film Resistor	1.2K 1/4 F				
*	R504	**HB026120**	Metal Film Resistor	1.2K 1/4 F				
	R505	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R506	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	TR101	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR102	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR201	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR202	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR301	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR302	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR401	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR402	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR501	**VK432900**	Transistor	2SD1915(F) S,T				01
	TR502	**VK432900**	Transistor	2SD1915(F) S,T				01
	VR301	**VQ901400**	Rotary Variable Resistor	A20Kx2 RK14K12B		STUDIO LEVEL		03
*		**V6285300**	Circuit Board	DM2K SUB		(XZ019B0)		
	C101	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-104	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C105	**UF027470**	Electrolytic Cap. (chip)	47 10V				01
	C106	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C107	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C108	**US062470**	Ceramic Capacitor-SL(chip)	470P 50V J				01
	C110	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C112	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-118	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C119	**UF027470**	Electrolytic Cap. (chip)	47 10V				01

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C120	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C121	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C122	**US062470**	Ceramic Capacitor-SL(chip)	470P 50V J				01
	C125	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C126	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C127	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C128	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C129	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C131	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C132	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C134	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C135	**US061220**	Ceramic Capacitor-CH(chip)	22P 50V J				01
	C136	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C137	**US061220**	Ceramic Capacitor-CH(chip)	22P 50V J				01
	C138	**UF128220**	Electrolytic Cap. (chip)	220 10V UUR1A2				01
	C139	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-147	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C163	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-165	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C166	**UF037470**	Electrolytic Cap. (chip)	47 16V				01
	C169	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-175	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C177	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-180	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C181	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J				01
	C182	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K				01
	C183	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K				01
	C184	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C185	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K				01
	-191	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K				01
	C193	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-198	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C501	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	-598	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z				01
	C599	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C600	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	CN101	**VB390100**	Connector Base Post	PH 5P TE				01
	CN102	**VF728300**	Wire Trap	52147 6P TE				01
	CN103	**VB390100**	Connector Base Post	PH 5P TE				01
	CN104	**VK025500**	Wire Trap	52147 11P TE				01
	CN111	**VO022100**	Connector, FFC	52045 40P TE				02
	-113	**VO022100**	Connector, FFC	52045 40P TE				02
	CN114	**VK025300**	Wire Trap	52147 9P TE				01
	CN115	**VF667700**	Wire Trap	52147 17P TE				01
	CN117	**VQ047500**	Connector, FFC	52045 20P TE				01
	CN118	**VO022100**	Connector, FFC	52045 40P TE				02
	CN119	**VQ048500**	Connector, FFC	52045 36P TE				02
	D101	**VT332900**	Diode	1SS355 TE-17				01
	EM101	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM102	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
	EM103	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM104	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM105	**VQ761400**	EMI Filter (chip)	NFM3DCC101U1H3L				01
*	IC101	**X2962A00**	IC	HD64F7044F28		CPU		
	IC102	**IS024500**	IC	HD74LV245AFPEL		TRANSCEIVER		02
	IC104	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
	IC105	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
	IC106	**IS024500**	IC	HD74LV245AFPEL		TRANSCEIVER		02
*	IC107	**X2962A00**	IC	HD64F7044F28		CPU		
	IC109	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
	IC110	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
	IC111	**XP226A00**	IC	IC-PST591DMT		SYSTEM RESET		03
	IC112	**IS012500**	IC	HD74LV125AFPEL		BUFFER		01
	IC113	**IS000000**	IC	HD74LV00AFPEL		NAND		01
	IC114	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC117	**XY102A00**	IC	HD74LVU04AFPEL		INVERTER		01
	IC118	**IS013810**	IC	SN74LV138ANSR		DECODER		01
	IC119	**XV973A00**	IC	SGH603064F-62F		GATE ARRAY		07
	-122	**XV973A00**	IC	SGH603064F-62F		GATE ARRAY		07
	IC124	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	IC125	**XW762A00**	IC	TC74HC138AFEL		DECODER		02
	IC126	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC128	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC129	**XW762A00**	IC	TC74HC138AFEL		DECODER		02
	IC130	**IS405210**	IC	SN74LV4052ANSR		MULTIPLEXER		02
	IC131	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	-134	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC135	**XS534A00**	IC	NJM78M05DLA(TE1)		REGULATOR +5V		02
	IC136	**XR532A00**	IC	NJM2904V(TE1)		OP AMP		02
	IC137	**IS000400**	IC	HD74LV04AFPEL		INVERTER		01
	IC138	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	L101	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
	L103	**GE300610**	Ferrite Bead	BL02RN1-R62T4				01
*	L104	**V8143400**	Chip Inductance	BLM21R121SKPT				
*	-177	**V8143400**	Chip Inductance	BLM21R121SKPT				
	R101	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R102	**RD256300**	Carbon Resistor (chip)	3.0K 0.1 J				01
	R104	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R105	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R106	**RD256300**	Carbon Resistor (chip)	3.0K 0.1 J				01
	R108	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-113	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R119	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R120	**RD259100**	Carbon Resistor (chip)	1.0M 0.1 J				01
	R122	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R123	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R127	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R128	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R131	**VI192200**	Metal Film Resistor (chip)	75.0 1/10 D				01
	R132	**VI197400**	Metal Film Resistor (chip)	10.0K 1/10 D				01
	R133	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-135	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R137	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R138	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R139	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R141	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R142	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R143	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-149	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R150	**HV754470**	Flame Proof C. Resistor	47.0 1/4 J				01
	R151	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R152	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-160	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R161	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R162	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R163	**RD258470**	Carbon Resistor (chip)	470.0K 0.1 J				01
	-166	**RD258470**	Carbon Resistor (chip)	470.0K 0.1 J				01
	R168	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R169	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-172	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R501	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	-504	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	RA101	**RE047100**	Resistor Array	10KX4				01
	-130	**RE047100**	Resistor Array	10KX4				01
	RA132	**RE047100**	Resistor Array	10KX4				01
	-138	**RE047100**	Resistor Array	10KX4				01
	RA501	**RE047100**	Resistor Array	10KX4				01
	-549	**RE047100**	Resistor Array	10KX4				01
	SW101	**KA401270**	Slide Switch	SSS212				03
	SW102	**KA401270**	Slide Switch	SSS212				03
	TR101	**VQ986700**	Transistor	2SC2SC4081 T106				01
	X101	**V3719200**	Quartz Crystal Unit	6.7584MHz SMD-49				03
*		**V6543900**	Circuit Board	DM2K SW		(X2215B0)		
	C001	**V5900200**	Mylar Capacitor	1.0000 250V M				
⚠	C003	**V7683000**	Capacitor	4700P 250V J.U.C.S				01
⚠	C004	**V7683000**	Capacitor	4700P 250V J.U.C.S				01
⚠	C005	**V7682800**	Capacitor	0.010 VA1 J.U.C.S				01
⚠	C006	**V7682800**	Capacitor	0.010 VA1 J.U.C.S				01
	CN001	**VG879900**	Base Post Connector	VA 2P TE				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	CN002	**LB932040**	Base Post Connector	VH 4P TE				01
⚠	F001	**VT943300**	Fuse	TH 6.30A S				01
	FZ001	**LB201530**	Fuse Holder	PC-FH1			2	01
	K001	**BB069510**	Land Terminal	A-8				01
⚠ *	L001	**V8429500**	Coil	SC-05-100J				
⚠	SW001	**VE681200**	Push Switch	SDDFA3015A J.U.C.S		POWER ON/OFF		05
⚠ *		**V6526100**	Power Supply Unit	XR-642 J,UL,CSA,S				
		NOTE: See parts list of the power supply unit service manual for details of circuit board component parts.						
*		**V8628200**	Motor	DC KDE1208PTS3-6		Fan		
		V5125700	LCD	EDMMPU3BDF				24
*		**V6512000**	Display Tube	M40ST01AA				
*		**V6512100**	Display Tube	M40ST01AB			2	
⚠		**VN103500**	Lithium Battery	CR2032				03
⚠		**V5065200**	AC Inlet	M1908-C		AC IN		03
⚠		**V5800000**	AC Cord	J 3P 15A		J		09
⚠		**V5068000**	AC Cord	U/C 3P 13A		U,V		09
⚠		**V5067700**	AC Cord	CE 3P 10A		H,W		08
⚠		**V6190800**	AC Cord	BS		B		10

✻: New Parts

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PEAK METER BRIDGE
MB2000
PARTS LIST

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Notes : DESTINATION ABBREVIATIONS

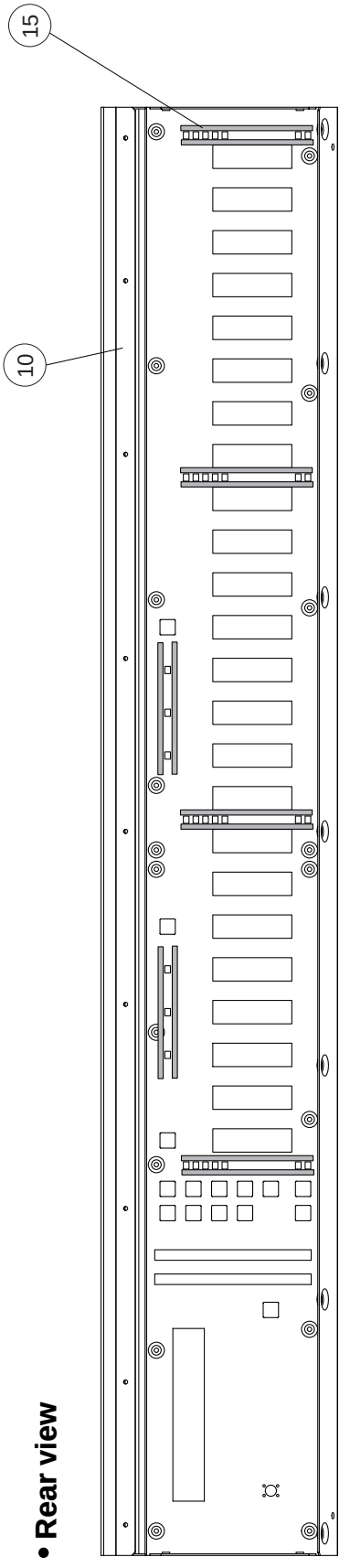
A : Australian model	M : South African model
B : British model	O : Chinese model
C : Canadian model	Q : South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

WARNING

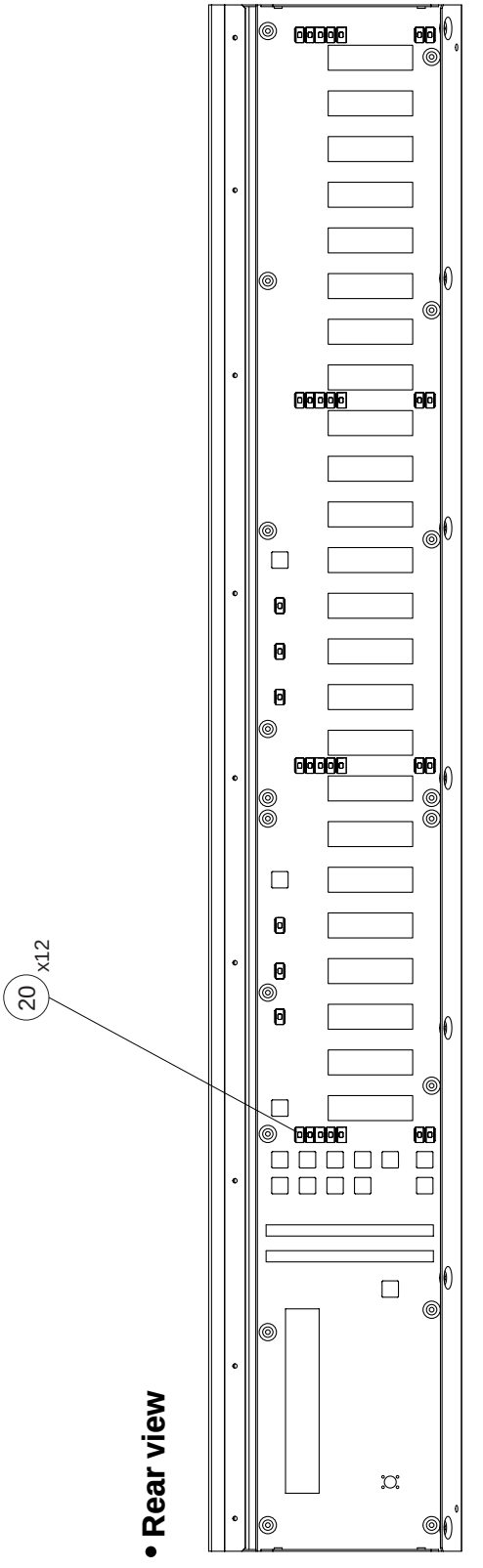
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

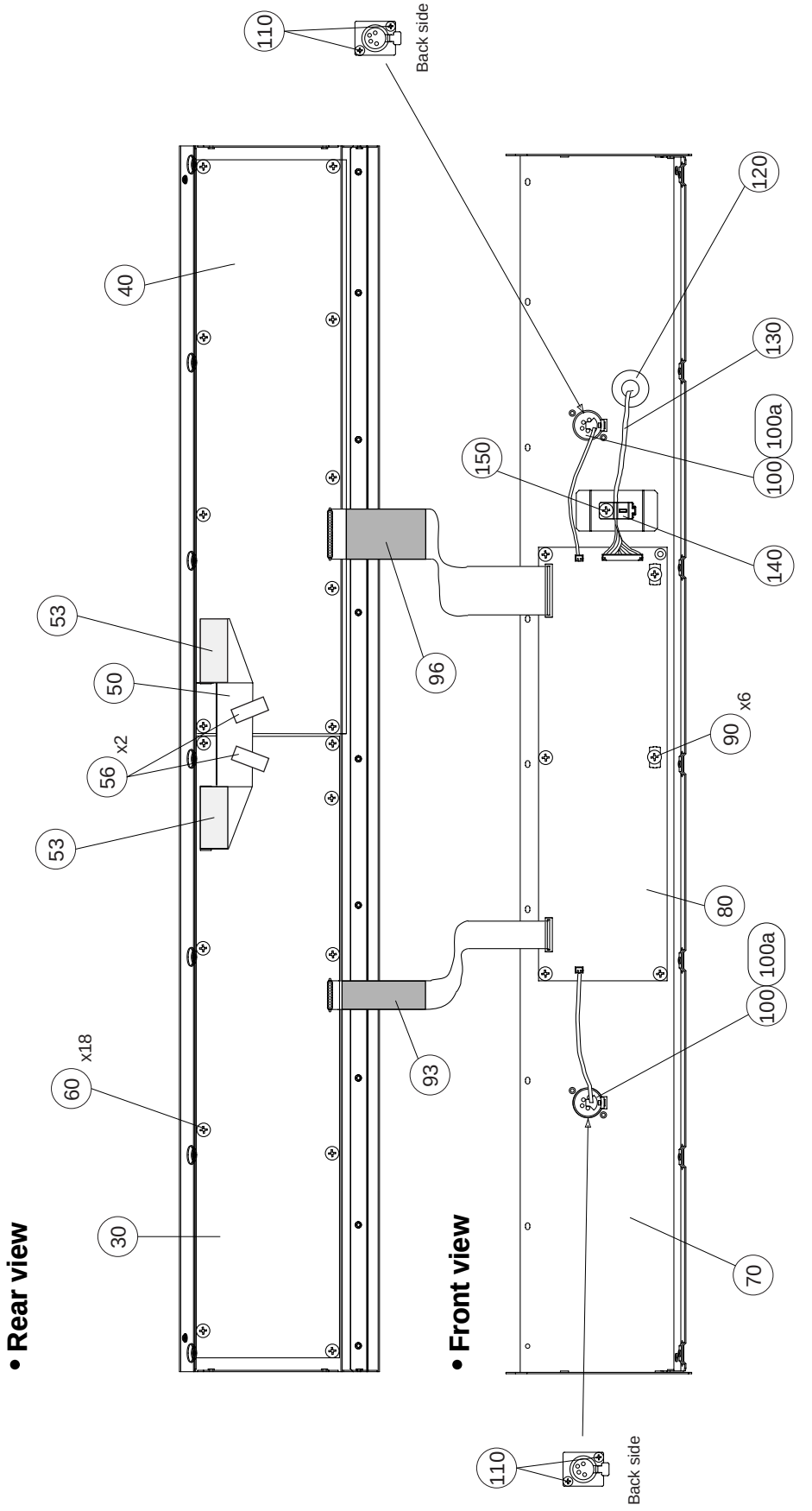
OVERALL ASSEMBLY



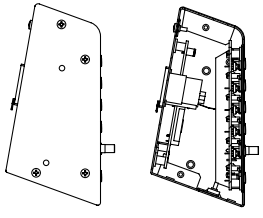
• Rear view



• Rear view

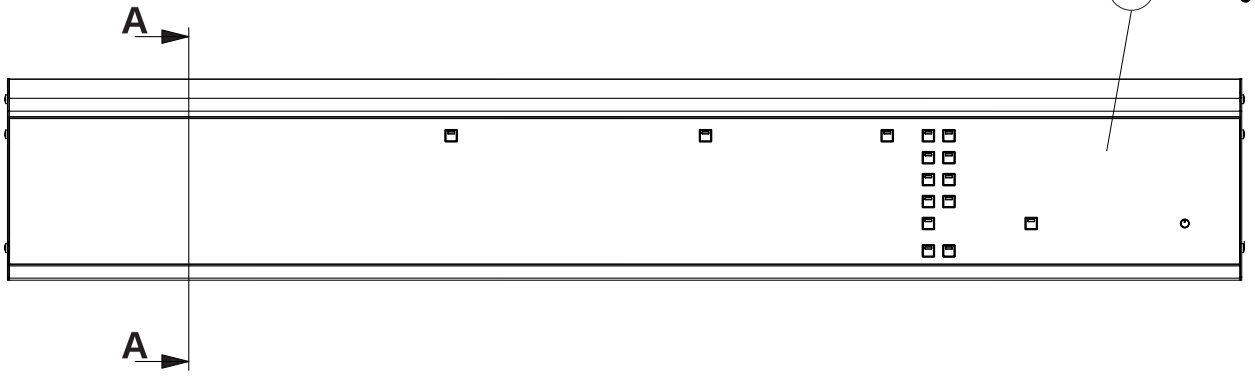

• Rear view
• Front view
110
Back side
40
120
130
100a
100
150
140
53
50
56
x2
53
96
90
x6
80
100a
100
60
x18
93
30
70
110
Back side

• **Left side view**

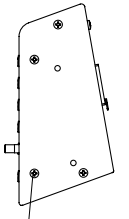


A-A section

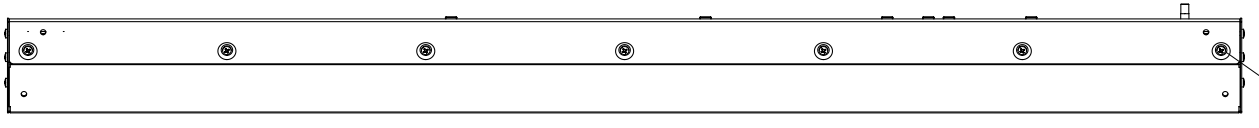
• **Front view**



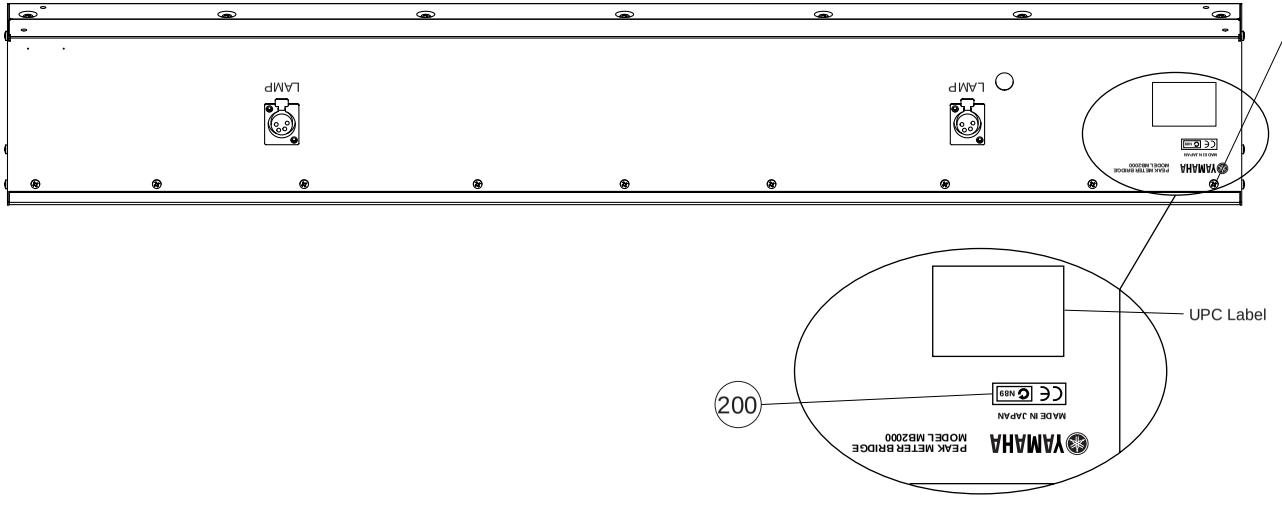
• **Right side view**



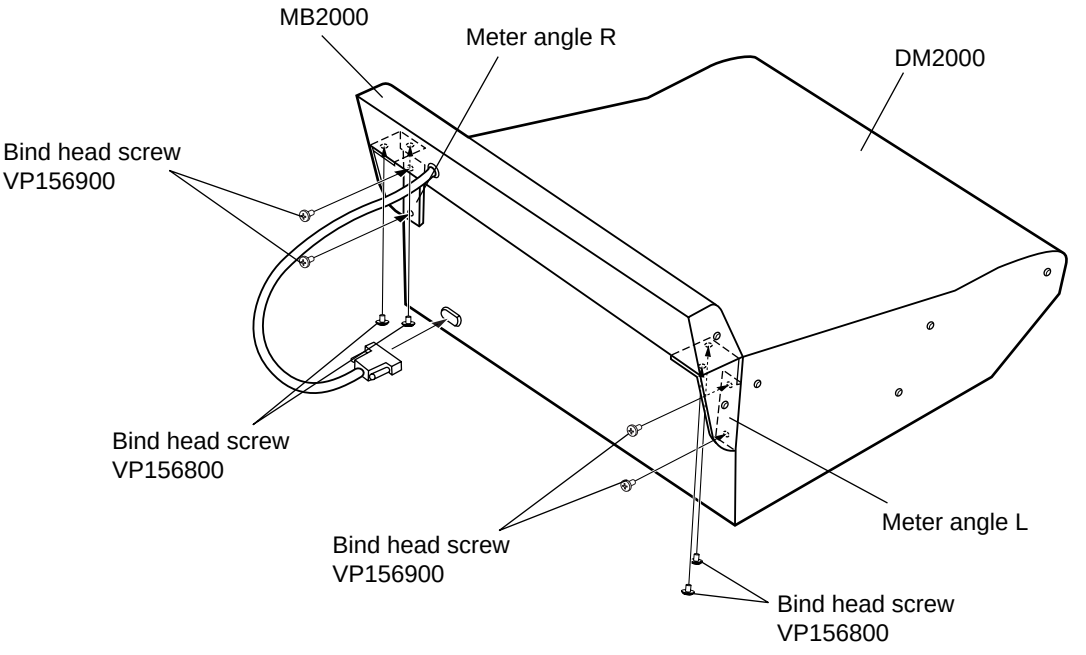
• **Bottom view**



• **Rear view**



• Accessories



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		--	OVERALL ASSEMBLY			MB2000 (V644740)		
*	10	V8403300	Front Panel					
	15	--	Adhesive Tape	#500 W=3		(VE36240)		
*	20	V6180000	LED Lens	x3P		1-24,25-48,49-72,73-96, MASTER,1-48,49-96	12	
*	30	V6288600	Circuit Board	MB2K PN1 (PNCOM)				
*	40	V6288700	Circuit Board	MB2K PN2 (PNCOM)				
*	50	MF135250	Connector Assembly	35P 250mm P=1.25				
	53	--	Sponge	FFC 45X45X3 BL		(V909460)	2	
	56	VA126100	Adhesive Tape	12X50			2	03
	60	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			18	01
*	70	V8563800	Rear Panel					
*	80	V6288800	Circuit Board	MB2K DC				
	90	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			6	01
	93	--	Sponge	JW1 20X100X3 BL		(V909440)		
	96	--	Sponge	JW2 35X100X3 BL		(V909450)		
*	100	V8461000	Connector Assembly	CANON&PH2P 130L			2	
	100a	VA728100	Cannon Connector	XLR-4-31-F77		LAMP		10
	110	EE620190	Pan Head Screw	2.6X8 MFNI33			4	01
	120	VU264700	Bushing	TB-9513				01
*	130	V6552600	DSUB Cable	DSUB15P 0.5m				
	140	VU264800	Cable Holder					08
	150	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				01
	160	VP157000	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL			24	01
*	170	V6312600	Meter Sheet					
	200	--	CE-CTICK Label	S		(V269120)		
			ACCESSORIES					
		VP156800	Bind Head Screw	A4.0X8 MFZN2BL			4	01
		VP156900	Bind Head Screw	A4.0X12 MFZN2BL			4	01
*		V6381300	Meter Angle L	LEFT				
*		V6381400	Meter Angle R	RIGHT				

*: New Parts

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■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			ELECTRICAL PARTS			MB2000		
*		**V6288800**	Circuit Board	MB2K DC		(XZ038B0)		
*		**V6288600**	Circuit Board	MB2K PN1 (PNCOM)		(V773550)(XZ036B0)		
*		**V6288700**	Circuit Board	MB2K PN2 (PNCOM)		(V773550)(XZ036B0)		
*		**V6288800**	Circuit Board	MB2K DC		(XZ038B0)		
		VB659000	Bind Head Screw	3.0X8 MFZN2BL				01
		IL000690	Insulation Sheet	CSSX-G509				01
		--	Jumper Wire	0.55		(VA07890)		
	C301	**UR868470**	Electrolytic Cap.	470.00 50.0V				01
	C302	**FG644100**	Ceramic Capacitor-F	0.0100 50V Z				01
	C303	**UR848470**	Electrolytic Cap.	470.00 25.0V				01
	C304	**UR868470**	Electrolytic Cap.	470.00 50.0V				01
	C305	**FG644100**	Ceramic Capacitor-F	0.0100 50V Z				01
	C306	**FG644100**	Ceramic Capacitor-F	0.0100 50V Z				01
	C307	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C308	**VF611200**	Monolithic Ceramic Cap.	0.100 50V Z				02
	C309	**UR848470**	Electrolytic Cap.	470.00 25.0V				01
	C311	**FG644100**	Ceramic Capacitor-F	0.0100 50V Z				01
	C314	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C315	**VF611200**	Monolithic Ceramic Cap.	0.100 50V Z				02
	C316	**VF611200**	Monolithic Ceramic Cap.	0.100 50V Z				02
	CN301	**VE352600**	Connector Base Post	PH 14P TE				01
	CN302	**VF728200**	Wire Trap	52147 10P TE				01
	CN303	**VF667700**	Wire Trap	52147 17P TE				01
	CN304	**VB389800**	Connector Base Post	PH 2P TE				01
	CN305	**VB389800**	Connector Base Post	PH 2P TE				01
	D301	**VP974300**	Diode	D3S6M-4002				03
	D302	**VB481900**	Diode	11ES4				01
	-309	**VB481900**	Diode	11ES4				01
	D310	**VP974300**	Diode	D3S6M-4002				03
	EM302	**FZ006970**	LC Filter	MTY223NBTBM				02
	-304	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM305	**FZ006920**	LC Filter	MTB271KBTBM				01
	-308	**FZ006920**	LC Filter	MTB271KBTBM				01
	EM309	**FZ006970**	LC Filter	MTY223NBTBM				02
	-314	**FZ006970**	LC Filter	MTY223NBTBM				02
	K302	**BB069510**	Land Terminal	#6951 A-8				01
	K304	**VJ802700**	Heat Sink	PUG26-25				02
	K307	**BB069510**	Land Terminal	#6951 A-8				01
	L301	**V2379700**	Coil	HP-033JY 150				06
	L302	**V2379700**	Coil	HP-033JY 150				06
	IC301	**XT442A00**	IC	SI-8050S		REGULATOR +5V		05
*	IC302	**XZ274A00**	IC	SI-8033S(LF1101)		REGULATOR +3.3V		
	IC303	**XU463A00**	IC	SN75C1168N		LINE TRANSCEIVER		05
	R301	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R302	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	-305	**HF454470**	Carbon Resistor	47.0 1/4 J				01
	R306	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R307	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R308	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
	R309	**VC740500**	Metal Oxide Film Resistor	1.5 1W J				01
	R310	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
	R311	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R312	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	-314	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R315	**VC740500**	Metal Oxide Film Resistor	1.5 1W J				01
	TH301	**VV455600**	Protector Switch	RXE017 0.17A 60V				03
*	TH302	**VV456300**	Protector Switch	RXE065 0.65A 72V				
	TH303	**VV456500**	Protector Switch	RXE090 0.90A 72V				03
	TR301	**IB059630**	Transistor	2SB596 O,Y				04
	TR302	**IC1815M0**	Transistor	2SC1815 Y,GR				01
	TR303	**IC1815M0**	Transistor	2SC1815 Y,GR				01
	TR304	**IB059630**	Transistor	2SB596 O,Y				04
	TR305	**IC1815M0**	Transistor	2SC1815 Y,GR				01
	TR306	**IC1815M0**	Transistor	2SC1815 Y,GR				01
*		**V6288600**	Circuit Board	MB2K PN1 (PNCOM)		(V773550)(XZ036B0)		
*		**V6288700**	Circuit Board	MB2K PN2 (PNCOM)		(V773550)(XZ036B0)		
*	70	**V8487200**	Button Light Gray	S LENS		PEAK HOLD,1-24,25-48,	13	

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
						49-72,73-96,MASTER, REMOTE 1-4,1-48,49-96, CONTROL ROOM		
*	110	**V8487600**	Button Light Gray	S		INPUT METERING POSITION, OUTPUT METERING POSITION	2	
*	130	**V6179800**	LED Lens	x16P		CH 1-24,STEREO L/R	52	
	C101	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C102	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C103	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-106	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C116	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C117	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-120	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C121	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C122	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C123	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C124	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C201	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C202	**UF038100**	Electrolytic Cap. (chip)	100 16V				01
	C203	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C204	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C205	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-208	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C218	**UF037100**	Electrolytic Cap. (chip)	10 16V				01
	C219	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-222	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C226	**UF018100**	Electrolytic Cap. (chip)	100 6.3V				01
	C227	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-234	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C235	**UB052470**	Monolithic Ceramic Cap.	SL 470P 50V J				01
	C236	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	C237	**UB051220**	Monolithic Ceramic Cap.	SL 22P 50V J				01
	C238	**UB051220**	Monolithic Ceramic Cap.	SL 22P 50V J				01
	C239	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	-241	**UB245100**	Monolithic Ceramic Cap.	F 0.100 25V Z				01
	CN101	**VQ046400**	Connector, FFC	52044 35P SE				01
	CN102	**VI878800**	Cable Holder	51048 10P TE				01
	CN201	**VI879500**	Cable Holder	51048 17P TE				01
	CN203	**VQ046400**	Connector, FFC	52044 35P SE				01
	D101	**VT332900**	Diode	1SS355 TE-17				01
	D201	**VT332900**	Diode	1SS355 TE-17				01
	-214	**VT332900**	Diode	1SS355 TE-17				01
	EM101	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM102	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM201	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM202	**FZ006970**	LC Filter	MTY223NBTBM				02
	EM203	**FZ006920**	LC Filter	MTB271KBTBM				01
	IC101	**XS720A00**	IC	TC74HC245AF		TRANSCEIVER		03
	IC102	**XV014A00**	IC	TD62M8600F		SOURCE DRIVER		05
	IC103	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	-105	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	IC106	**XV014A00**	IC	TD62M8600F		SOURCE DRIVER		05
	IC107	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	-109	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	IC110	**XV014A00**	IC	TD62M8600F		SOURCE DRIVER		05
	IC201	**XV014A00**	IC	TD62M8600F		SOURCE DRIVER		05
	IC202	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	-204	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	IC205	**XV014A00**	IC	TD62M8600F		SOURCE DRIVER		05
	IC206	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
	-208	**XV013A00**	IC	TB62705CF(EL)		LED DRIVER		04
*	IC211	**X2824A00**	IC	HD6437042AF28		CPU		
	IC212	**XP226A00**	IC	IC-PST591DMT		SYSTEM RESET		03
	IC213	**XD838A00**	IC	SN74HC245NSR		TRANSCEIVER		04
	IC214	**XT163A00**	IC	TC74HC238AF		DECODER		03
	L201	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	-205	**VS740100**	Chip Inductance	BLM21B751S 2125				03
	L206	**GE300680**	Ferrite Bead	BL01RN1-A62T5				02
*	LD001	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -72		
*	LD002	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -60		

❇: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD003	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -56		
*	LD004	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -52		
*	LD005	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -48		
*	LD006	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -45		
*	LD007	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -42		
*	LD008	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -39		
*	LD009	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -36		
*	LD010	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -33		
*	LD011	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -30		
*	LD012	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -27		
*	LD013	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -24		
*	LD014	**V3670100**	LED Yellow/Green	LT1E40A		STEREO L -21		
*	LD015	**V3670200**	LED Yellow	LT1H40A		STEREO L -18		
*	LD016	**V3670200**	LED Yellow	LT1H40A		STEREO L -16		
*	LD017	**V3670200**	LED Yellow	LT1H40A		STEREO L -14		
*	LD018	**V3670200**	LED Yellow	LT1H40A		STEREO L -13		
*	LD019	**V3670200**	LED Yellow	LT1H40A		STEREO L -12		
*	LD020	**V3670200**	LED Yellow	LT1H40A		STEREO L -11		
*	LD021	**V3670200**	LED Yellow	LT1H40A		STEREO L -10		
*	LD022	**V3670200**	LED Yellow	LT1H40A		STEREO L -9		
*	LD023	**V3670200**	LED Yellow	LT1H40A		STEREO L -8		
*	LD024	**V3670200**	LED Yellow	LT1H40A		STEREO L -7		
*	LD025	**V3670200**	LED Yellow	LT1H40A		STEREO L -6		
*	LD026	**V3670200**	LED Yellow	LT1H40A		STEREO L -5		
*	LD027	**V3670200**	LED Yellow	LT1H40A		STEREO L -4		
*	LD028	**V3670200**	LED Yellow	LT1H40A		STEREO L -3		
*	LD029	**V3670200**	LED Yellow	LT1H40A		STEREO L -2		
*	LD030	**V3670200**	LED Yellow	LT1H40A		STEREO L -1		
*	LD031	**V3670200**	LED Yellow	LT1H40A		STEREO L 0		
*	LD032	**V3670000**	LED Red	LT1D40A		STEREO L OVER		
*	LD033	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -72		
*	LD034	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -60		
*	LD035	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -56		
*	LD036	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -52		
*	LD037	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -48		
*	LD038	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -45		
*	LD039	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -42		
*	LD040	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -39		
*	LD041	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -36		
*	LD042	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -33		
*	LD043	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -30		
*	LD044	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -27		
*	LD045	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -24		
*	LD046	**V3670100**	LED Yellow/Green	LT1E40A		STEREO R -21		
*	LD047	**V3670200**	LED Yellow	LT1H40A		STEREO R -18		
*	LD048	**V3670200**	LED Yellow	LT1H40A		STEREO R -16		
*	LD049	**V3670200**	LED Yellow	LT1H40A		STEREO R -14		
*	LD050	**V3670200**	LED Yellow	LT1H40A		STEREO R -13		
*	LD051	**V3670200**	LED Yellow	LT1H40A		STEREO R -12		
*	LD052	**V3670200**	LED Yellow	LT1H40A		STEREO R -11		
*	LD053	**V3670200**	LED Yellow	LT1H40A		STEREO R -10		
*	LD054	**V3670200**	LED Yellow	LT1H40A		STEREO R -9		
*	LD055	**V3670200**	LED Yellow	LT1H40A		STEREO R -8		
*	LD056	**V3670200**	LED Yellow	LT1H40A		STEREO R -7		
*	LD057	**V3670200**	LED Yellow	LT1H40A		STEREO R -6		
*	LD058	**V3670200**	LED Yellow	LT1H40A		STEREO R -5		
*	LD059	**V3670200**	LED Yellow	LT1H40A		STEREO R -4		
*	LD060	**V3670200**	LED Yellow	LT1H40A		STEREO R -3		
*	LD061	**V3670200**	LED Yellow	LT1H40A		STEREO R -2		
*	LD062	**V3670200**	LED Yellow	LT1H40A		STEREO R -1		
*	LD063	**V3670200**	LED Yellow	LT1H40A		STEREO R 0		
*	LD064	**V3670000**	LED Red	LT1D40A		STEREO R OVER		
*	LD65	**V7718600**	LED Display	LB-502DD		MEASURE/H (TIME CODE)		
*	LD66	**V7718600**	LED Display	LB-502DD		MEASURE/M (TIME CODE)		
*	LD67	**V7718600**	LED Display	LB-502DD		BEAT/S (TIME CODE)		
*	LD68	**V7718600**	LED Display	LB-502DD		CLOCK/F (TIME CODE)		
*	LD069	**V3670100**	LED Yellow/Green	LT1E40A		1-48 (1)		
*	LD070	**V3670100**	LED Yellow/Green	LT1E40A		49-96 (1)		
*	LD071	**V3670100**	LED Yellow/Green	LT1E40A		1-24 (1)		
*	LD072	**V3670100**	LED Yellow/Green	LT1E40A		25-48 (1)		

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD073	**V3670100**	LED Yellow/Green	LT1E40A		49-72 (1)		
*	LD074	**V3670100**	LED Yellow/Green	LT1E40A		73-96 (1)		
*	LD075	**V3670100**	LED Yellow/Green	LT1E40A		MASTER (1)		
*	LD076	**V3670100**	LED Yellow/Green	LT1E40A		1-48 (2)		
*	LD077	**V3670100**	LED Yellow/Green	LT1E40A		49-96 (2)		
*	LD078	**V3670100**	LED Yellow/Green	LT1E40A		1-24 (2)		
*	LD079	**V3670100**	LED Yellow/Green	LT1E40A		25-48 (2)		
*	LD080	**V3670100**	LED Yellow/Green	LT1E40A		49-72 (2)		
*	LD081	**V3670100**	LED Yellow/Green	LT1E40A		73-96 (2)		
*	LD082	**V3670100**	LED Yellow/Green	LT1E40A		MASTER (2)		
*	LD083	**V3670100**	LED Yellow/Green	LT1E40A		1-48 (3)		
*	LD084	**V3670100**	LED Yellow/Green	LT1E40A		49-96 (3)		
*	LD085	**V3670100**	LED Yellow/Green	LT1E40A		1-24 (3)		
*	LD086	**V3670100**	LED Yellow/Green	LT1E40A		25-48 (3)		
*	LD087	**V3670100**	LED Yellow/Green	LT1E40A		49-72 (3)		
*	LD088	**V3670100**	LED Yellow/Green	LT1E40A		73-96 (3)		
*	LD089	**V3670100**	LED Yellow/Green	LT1E40A		MASTER (3)		
*	LD090	**V3670100**	LED Yellow/Green	LT1E40A		PRE EQ (INPUT)		
*	LD091	**V3670100**	LED Yellow/Green	LT1E40A		PRE FADER (INPUT)		
*	LD092	**V3670100**	LED Yellow/Green	LT1E40A		POST FADER (INPUT)		
*	LD093	**V3670100**	LED Yellow/Green	LT1E40A		1-48 (4)		
*	LD094	**V3670100**	LED Yellow/Green	LT1E40A		49-96 (4)		
*	LD095	**V3670100**	LED Yellow/Green	LT1E40A		1-24 (4)		
*	LD096	**V3670100**	LED Yellow/Green	LT1E40A		25-48 (4)		
*	LD097	**V3670100**	LED Yellow/Green	LT1E40A		49-72 (4)		
*	LD098	**V3670100**	LED Yellow/Green	LT1E40A		73-96 (4)		
*	LD099	**V3670100**	LED Yellow/Green	LT1E40A		MASTER (4)		
*	LD101	**V3670100**	LED Yellow/Green	LT1E40A		CH1 1/49 -48		
*	LD102	**V3670100**	LED Yellow/Green	LT1E40A		CH1 1/49 -36		
*	LD103	**V3670100**	LED Yellow/Green	LT1E40A		CH1 1/49 -30		
*	LD104	**V3670100**	LED Yellow/Green	LT1E40A		CH1 1/49 -24		
*	LD105	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -18		
*	LD106	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -15		
*	LD107	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -12		
*	LD108	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -9		
*	LD109	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -6		
*	LD110	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 -3		
*	LD111	**V3670200**	LED Yellow	LT1H40A		CH1 1/49 0		
*	LD112	**V3670000**	LED Red	LT1D40A		CH1 1/49 OVER		
*	LD113	**V3670100**	LED Yellow/Green	LT1E40A		CH1 2/50 -48		
*	LD114	**V3670100**	LED Yellow/Green	LT1E40A		CH1 2/50 -36		
*	LD115	**V3670100**	LED Yellow/Green	LT1E40A		CH1 2/50 -30		
*	LD116	**V3670100**	LED Yellow/Green	LT1E40A		CH1 2/50 -24		
*	LD117	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -18		
*	LD118	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -15		
*	LD119	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -12		
*	LD120	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -9		
*	LD121	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -6		
*	LD122	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 -3		
*	LD123	**V3670200**	LED Yellow	LT1H40A		CH1 2/50 0		
*	LD124	**V3670000**	LED Red	LT1D40A		CH1 2/50 OVER		
*	LD201	**V3670100**	LED Yellow/Green	LT1E40A		CH2 3/51 -48		
*	LD202	**V3670100**	LED Yellow/Green	LT1E40A		CH2 3/51 -36		
*	LD203	**V3670100**	LED Yellow/Green	LT1E40A		CH2 3/51 -30		
*	LD204	**V3670100**	LED Yellow/Green	LT1E40A		CH2 3/51 -24		
*	LD205	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -18		
*	LD206	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -15		
*	LD207	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -12		
*	LD208	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -9		
*	LD209	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -6		
*	LD210	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 -3		
*	LD211	**V3670200**	LED Yellow	LT1H40A		CH2 3/51 0		
*	LD212	**V3670000**	LED Red	LT1D40A		CH2 3/51 OVER		
*	LD213	**V3670100**	LED Yellow/Green	LT1E40A		CH2 4/52 -48		
*	LD214	**V3670100**	LED Yellow/Green	LT1E40A		CH2 4/52 -36		
*	LD215	**V3670100**	LED Yellow/Green	LT1E40A		CH2 4/52 -30		
*	LD216	**V3670100**	LED Yellow/Green	LT1E40A		CH2 4/52 -24		
*	LD217	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -18		
*	LD218	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -15		
*	LD219	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -12		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD220	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -9		
*	LD221	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -6		
*	LD222	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 -3		
*	LD223	**V3670200**	LED Yellow	LT1H40A		CH2 4/52 0		
*	LD224	**V3670000**	LED Red	LT1D40A		CH2 4/52 OVER		
*	LD301	**V3670100**	LED Yellow/Green	LT1E40A		CH3 5/53 -48		
*	LD302	**V3670100**	LED Yellow/Green	LT1E40A		CH3 5/53 -36		
*	LD303	**V3670100**	LED Yellow/Green	LT1E40A		CH3 5/53 -30		
*	LD304	**V3670100**	LED Yellow/Green	LT1E40A		CH3 5/53 -24		
*	LD305	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -18		
*	LD306	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -15		
*	LD307	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -12		
*	LD308	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -9		
*	LD309	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -6		
*	LD310	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 -3		
*	LD311	**V3670200**	LED Yellow	LT1H40A		CH3 5/53 0		
*	LD312	**V3670000**	LED Red	LT1D40A		CH3 5/53 OVER		
*	LD313	**V3670100**	LED Yellow/Green	LT1E40A		CH3 6/54 -48		
*	LD314	**V3670100**	LED Yellow/Green	LT1E40A		CH3 6/54 -36		
*	LD315	**V3670100**	LED Yellow/Green	LT1E40A		CH3 6/54 -30		
*	LD316	**V3670100**	LED Yellow/Green	LT1E40A		CH3 6/54 -24		
*	LD317	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -18		
*	LD318	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -15		
*	LD319	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -12		
*	LD320	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -9		
*	LD321	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -6		
*	LD322	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 -3		
*	LD323	**V3670200**	LED Yellow	LT1H40A		CH3 6/54 0		
*	LD324	**V3670000**	LED Red	LT1D40A		CH3 6/54 OVER		
*	LD401	**V3670100**	LED Yellow/Green	LT1E40A		CH4 7/55 -48		
*	LD402	**V3670100**	LED Yellow/Green	LT1E40A		CH4 7/55 -36		
*	LD403	**V3670100**	LED Yellow/Green	LT1E40A		CH4 7/55 -30		
*	LD404	**V3670100**	LED Yellow/Green	LT1E40A		CH4 7/55 -24		
*	LD405	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -18		
*	LD406	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -15		
*	LD407	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -12		
*	LD408	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -9		
*	LD409	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -6		
*	LD410	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 -3		
*	LD411	**V3670200**	LED Yellow	LT1H40A		CH4 7/55 0		
*	LD412	**V3670000**	LED Red	LT1D40A		CH4 7/55 OVER		
*	LD413	**V3670100**	LED Yellow/Green	LT1E40A		CH4 8/56 -48		
*	LD414	**V3670100**	LED Yellow/Green	LT1E40A		CH4 8/56 -36		
*	LD415	**V3670100**	LED Yellow/Green	LT1E40A		CH4 8/56 -30		
*	LD416	**V3670100**	LED Yellow/Green	LT1E40A		CH4 8/56 -24		
*	LD417	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -18		
*	LD418	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -15		
*	LD419	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -12		
*	LD420	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -9		
*	LD421	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -6		
*	LD422	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 -3		
*	LD423	**V3670200**	LED Yellow	LT1H40A		CH4 8/56 0		
*	LD424	**V3670000**	LED Red	LT1D40A		CH4 8/56 OVER		
*	LD455	**V3670200**	LED Yellow	LT1H40A		CONTROL ROOM		
*	LD501	**V3670100**	LED Yellow/Green	LT1E40A		CH5 9/57 -48		
*	LD502	**V3670100**	LED Yellow/Green	LT1E40A		CH5 9/57 -36		
*	LD503	**V3670100**	LED Yellow/Green	LT1E40A		CH5 9/57 -30		
*	LD504	**V3670100**	LED Yellow/Green	LT1E40A		CH5 9/57 -24		
*	LD505	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -18		
*	LD506	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -15		
*	LD507	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -12		
*	LD508	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -9		
*	LD509	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -6		
*	LD510	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 -3		
*	LD511	**V3670200**	LED Yellow	LT1H40A		CH5 9/57 0		
*	LD512	**V3670000**	LED Red	LT1D40A		CH5 9/57 OVER		
*	LD513	**V3670100**	LED Yellow/Green	LT1E40A		CH5 10/58 -48		
*	LD514	**V3670100**	LED Yellow/Green	LT1E40A		CH5 10/58 -36		
*	LD515	**V3670100**	LED Yellow/Green	LT1E40A		CH5 10/58 -30		
*	LD516	**V3670100**	LED Yellow/Green	LT1E40A		CH5 10/58 -24		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD517	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -18		
*	LD518	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -15		
*	LD519	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -12		
*	LD520	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -9		
*	LD521	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -6		
*	LD522	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 -3		
*	LD523	**V3670200**	LED Yellow	LT1H40A		CH5 10/58 0		
*	LD524	**V3670000**	LED Red	LT1D40A		CH5 10/58 OVER		
*	LD601	**V3670100**	LED Yellow/Green	LT1E40A		CH6 11/59 -48		
*	LD602	**V3670100**	LED Yellow/Green	LT1E40A		CH6 11/59 -36		
*	LD603	**V3670100**	LED Yellow/Green	LT1E40A		CH6 11/59 -30		
*	LD604	**V3670100**	LED Yellow/Green	LT1E40A		CH6 11/59 -24		
*	LD605	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -18		
*	LD606	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -15		
*	LD607	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -12		
*	LD608	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -9		
*	LD609	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -6		
*	LD610	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 -3		
*	LD611	**V3670200**	LED Yellow	LT1H40A		CH6 11/59 0		
*	LD612	**V3670000**	LED Red	LT1D40A		CH6 11/59 OVER		
*	LD613	**V3670100**	LED Yellow/Green	LT1E40A		CH6 12/60 -48		
*	LD614	**V3670100**	LED Yellow/Green	LT1E40A		CH6 12/60 -36		
*	LD615	**V3670100**	LED Yellow/Green	LT1E40A		CH6 12/60 -30		
*	LD616	**V3670100**	LED Yellow/Green	LT1E40A		CH6 12/60 -24		
*	LD617	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -18		
*	LD618	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -15		
*	LD619	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -12		
*	LD620	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -9		
*	LD621	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -6		
*	LD622	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 -3		
*	LD623	**V3670200**	LED Yellow	LT1H40A		CH6 12/60 0		
*	LD624	**V3670000**	LED Red	LT1D40A		CH6 12/60 OVER		
*	LD701	**V3670100**	LED Yellow/Green	LT1E40A		CH7 13/61 -48		
*	LD702	**V3670100**	LED Yellow/Green	LT1E40A		CH7 13/61 -36		
*	LD703	**V3670100**	LED Yellow/Green	LT1E40A		CH7 13/61 -30		
*	LD704	**V3670100**	LED Yellow/Green	LT1E40A		CH7 13/61 -24		
*	LD705	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -18		
*	LD706	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -15		
*	LD707	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -12		
*	LD708	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -9		
*	LD709	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -6		
*	LD710	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 -3		
*	LD711	**V3670200**	LED Yellow	LT1H40A		CH7 13/61 0		
*	LD712	**V3670000**	LED Red	LT1D40A		CH7 13/61 OVER		
*	LD713	**V3670100**	LED Yellow/Green	LT1E40A		CH7 14/62 -48		
*	LD714	**V3670100**	LED Yellow/Green	LT1E40A		CH7 14/62 -36		
*	LD715	**V3670100**	LED Yellow/Green	LT1E40A		CH7 14/62 -30		
*	LD716	**V3670100**	LED Yellow/Green	LT1E40A		CH7 14/62 -24		
*	LD717	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -18		
*	LD718	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -15		
*	LD719	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -12		
*	LD720	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -9		
*	LD721	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -6		
*	LD722	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 -3		
*	LD723	**V3670200**	LED Yellow	LT1H40A		CH7 14/62 0		
*	LD724	**V3670000**	LED Red	LT1D40A		CH7 14/62 OVER		
*	LD801	**V3670100**	LED Yellow/Green	LT1E40A		CH8 15/63 -48		
*	LD802	**V3670100**	LED Yellow/Green	LT1E40A		CH8 15/63 -36		
*	LD803	**V3670100**	LED Yellow/Green	LT1E40A		CH8 15/63 -30		
*	LD804	**V3670100**	LED Yellow/Green	LT1E40A		CH8 15/63 -24		
*	LD805	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -18		
*	LD806	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -15		
*	LD807	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -12		
*	LD808	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -9		
*	LD809	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -6		
*	LD810	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 -3		
*	LD811	**V3670200**	LED Yellow	LT1H40A		CH8 15/63 0		
*	LD812	**V3670000**	LED Red	LT1D40A		CH8 15/63 OVER		
*	LD813	**V3670100**	LED Yellow/Green	LT1E40A		CH8 16/64 -48		
*	LD814	**V3670100**	LED Yellow/Green	LT1E40A		CH8 16/64 -36		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LD815	**V3670100**	LED Yellow/Green	LT1E40A		CH8 16/64 -30		
*	LD816	**V3670100**	LED Yellow/Green	LT1E40A		CH8 16/64 -24		
*	LD817	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -18		
*	LD818	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -15		
*	LD819	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -12		
*	LD820	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -9		
*	LD821	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -6		
*	LD822	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 -3		
*	LD823	**V3670200**	LED Yellow	LT1H40A		CH8 16/64 0		
*	LD824	**V3670000**	LED Red	LT1D40A		CH8 16/64 OVER		
*	LD901	**V3670100**	LED Yellow/Green	LT1E40A		CH9 17/65 -48		
*	LD902	**V3670100**	LED Yellow/Green	LT1E40A		CH9 17/65 -36		
*	LD903	**V3670100**	LED Yellow/Green	LT1E40A		CH9 17/65 -30		
*	LD904	**V3670100**	LED Yellow/Green	LT1E40A		CH9 17/65 -24		
*	LD905	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -18		
*	LD906	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -15		
*	LD907	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -12		
*	LD908	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -9		
*	LD909	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -6		
*	LD910	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 -3		
*	LD911	**V3670200**	LED Yellow	LT1H40A		CH9 17/65 0		
*	LD912	**V3670000**	LED Red	LT1D40A		CH9 17/65 OVER		
*	LD913	**V3670100**	LED Yellow/Green	LT1E40A		CH9 18/66 -48		
*	LD914	**V3670100**	LED Yellow/Green	LT1E40A		CH9 18/66 -36		
*	LD915	**V3670100**	LED Yellow/Green	LT1E40A		CH9 18/66 -30		
*	LD916	**V3670100**	LED Yellow/Green	LT1E40A		CH9 18/66 -24		
*	LD917	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -18		
*	LD918	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -15		
*	LD919	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -12		
*	LD920	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -9		
*	LD921	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -6		
*	LD922	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 -3		
*	LD923	**V3670200**	LED Yellow	LT1H40A		CH9 18/66 0		
*	LD924	**V3670000**	LED Red	LT1D40A		CH9 18/66 OVER		
*	LDA01	**V3670100**	LED Yellow/Green	LT1E40A		CH10 19/67 -48		
*	LDA02	**V3670100**	LED Yellow/Green	LT1E40A		CH10 19/67 -36		
*	LDA03	**V3670100**	LED Yellow/Green	LT1E40A		CH10 19/67 -30		
*	LDA04	**V3670100**	LED Yellow/Green	LT1E40A		CH10 19/67 -24		
*	LDA05	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -18		
*	LDA06	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -15		
*	LDA07	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -12		
*	LDA08	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -9		
*	LDA09	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -6		
*	LDA10	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 -3		
*	LDA11	**V3670200**	LED Yellow	LT1H40A		CH10 19/67 0		
*	LDA12	**V3670000**	LED Red	LT1D40A		CH10 19/67 OVER		
*	LDA13	**V3670100**	LED Yellow/Green	LT1E40A		CH10 20/68 -48		
*	LDA14	**V3670100**	LED Yellow/Green	LT1E40A		CH10 20/68 -36		
*	LDA15	**V3670100**	LED Yellow/Green	LT1E40A		CH10 20/68 -30		
*	LDA16	**V3670100**	LED Yellow/Green	LT1E40A		CH10 20/68 -24		
*	LDA17	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -18		
*	LDA18	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -15		
*	LDA19	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -12		
*	LDA20	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -9		
*	LDA21	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -6		
*	LDA22	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 -3		
*	LDA23	**V3670200**	LED Yellow	LT1H40A		CH10 20/68 0		
*	LDA24	**V3670000**	LED Red	LT1D40A		CH10 20/68 OVER		
*	LDB01	**V3670100**	LED Yellow/Green	LT1E40A		CH11 21/69 -48		
*	LDB02	**V3670100**	LED Yellow/Green	LT1E40A		CH11 21/69 -36		
*	LDB03	**V3670100**	LED Yellow/Green	LT1E40A		CH11 21/69 -30		
*	LDB04	**V3670100**	LED Yellow/Green	LT1E40A		CH11 21/69 -24		
*	LDB05	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -18		
*	LDB06	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -15		
*	LDB07	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -12		
*	LDB08	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -9		
*	LDB09	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -6		
*	LDB10	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 -3		
*	LDB11	**V3670200**	LED Yellow	LT1H40A		CH11 21/69 0		
*	LDB12	**V3670000**	LED Red	LT1D40A		CH11 21/69 OVER		

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LDB13	**V3670100**	LED Yellow/Green	LT1E40A		CH11 22/70 -48		
*	LDB14	**V3670100**	LED Yellow/Green	LT1E40A		CH11 22/70 -36		
*	LDB15	**V3670100**	LED Yellow/Green	LT1E40A		CH11 22/70 -30		
*	LDB16	**V3670100**	LED Yellow/Green	LT1E40A		CH11 22/70 -24		
*	LDB17	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -18		
*	LDB18	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -15		
*	LDB19	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -12		
*	LDB20	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -9		
*	LDB21	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -6		
*	LDB22	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 -3		
*	LDB23	**V3670200**	LED Yellow	LT1H40A		CH11 22/70 0		
*	LDB24	**V3670000**	LED Red	LT1D40A		CH11 22/70 OVER		
*	LDC01	**V3670100**	LED Yellow/Green	LT1E40A		CH12 23/71 -48		
*	LDC02	**V3670100**	LED Yellow/Green	LT1E40A		CH12 23/71 -36		
*	LDC03	**V3670100**	LED Yellow/Green	LT1E40A		CH12 23/71 -30		
*	LDC04	**V3670100**	LED Yellow/Green	LT1E40A		CH12 23/71 -24		
*	LDC05	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -18		
*	LDC06	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -15		
*	LDC07	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -12		
*	LDC08	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -9		
*	LDC09	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -6		
*	LDC10	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 -3		
*	LDC11	**V3670200**	LED Yellow	LT1H40A		CH12 23/71 0		
*	LDC12	**V3670000**	LED Red	LT1D40A		CH12 23/71 OVER		
*	LDC13	**V3670100**	LED Yellow/Green	LT1E40A		CH12 24/72 -48		
*	LDC14	**V3670100**	LED Yellow/Green	LT1E40A		CH12 24/72 -36		
*	LDC15	**V3670100**	LED Yellow/Green	LT1E40A		CH12 24/72 -30		
*	LDC16	**V3670100**	LED Yellow/Green	LT1E40A		CH12 24/72 -24		
*	LDC17	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -18		
*	LDC18	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -15		
*	LDC19	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -12		
*	LDC20	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -9		
*	LDC21	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -6		
*	LDC22	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 -3		
*	LDC23	**V3670200**	LED Yellow	LT1H40A		CH12 24/72 0		
*	LDC24	**V3670000**	LED Red	LT1D40A		CH12 24/72 OVER		
*	LDD01	**V3670100**	LED Yellow/Green	LT1E40A		CH13 25/73 -48		
*	LDD02	**V3670100**	LED Yellow/Green	LT1E40A		CH13 25/73 -36		
*	LDD03	**V3670100**	LED Yellow/Green	LT1E40A		CH13 25/73 -30		
*	LDD04	**V3670100**	LED Yellow/Green	LT1E40A		CH13 25/73 -24		
*	LDD05	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -18		
*	LDD06	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -15		
*	LDD07	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -12		
*	LDD08	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -9		
*	LDD09	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -6		
*	LDD10	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 -3		
*	LDD11	**V3670200**	LED Yellow	LT1H40A		CH13 25/73 0		
*	LDD12	**V3670000**	LED Red	LT1D40A		CH13 25/73 OVER		
*	LDD13	**V3670100**	LED Yellow/Green	LT1E40A		CH13 26/74 -48		
*	LDD14	**V3670100**	LED Yellow/Green	LT1E40A		CH13 26/74 -36		
*	LDD15	**V3670100**	LED Yellow/Green	LT1E40A		CH13 26/74 -30		
*	LDD16	**V3670100**	LED Yellow/Green	LT1E40A		CH13 26/74 -24		
*	LDD17	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -18		
*	LDD18	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -15		
*	LDD19	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -12		
*	LDD20	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -9		
*	LDD21	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -6		
*	LDD22	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 -3		
*	LDD23	**V3670200**	LED Yellow	LT1H40A		CH13 26/74 0		
*	LDD24	**V3670000**	LED Red	LT1D40A		CH13 26/74 OVER		
*	LDE01	**V3670100**	LED Yellow/Green	LT1E40A		CH14 27/75 -48		
*	LDE02	**V3670100**	LED Yellow/Green	LT1E40A		CH14 27/75 -36		
*	LDE03	**V3670100**	LED Yellow/Green	LT1E40A		CH14 27/75 -30		
*	LDE04	**V3670100**	LED Yellow/Green	LT1E40A		CH14 27/75 -24		
*	LDE05	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -18		
*	LDE06	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -15		
*	LDE07	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -12		
*	LDE08	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -9		
*	LDE09	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -6		
*	LDE10	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 -3		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LDE11	**V3670200**	LED Yellow	LT1H40A		CH14 27/75 0		
*	LDE12	**V3670000**	LED Red	LT1D40A		CH14 27/75 OVER		
*	LDE13	**V3670100**	LED Yellow/Green	LT1E40A		CH14 28/76 -48		
*	LDE14	**V3670100**	LED Yellow/Green	LT1E40A		CH14 28/76 -36		
*	LDE15	**V3670100**	LED Yellow/Green	LT1E40A		CH14 28/76 -30		
*	LDE16	**V3670100**	LED Yellow/Green	LT1E40A		CH14 28/76 -24		
*	LDE17	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -18		
*	LDE18	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -15		
*	LDE19	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -12		
*	LDE20	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -9		
*	LDE21	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -6		
*	LDE22	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 -3		
*	LDE23	**V3670200**	LED Yellow	LT1H40A		CH14 28/76 0		
*	LDE24	**V3670000**	LED Red	LT1D40A		CH14 28/76 OVER		
*	LDF01	**V3670100**	LED Yellow/Green	LT1E40A		CH15 29/77 -48		
*	LDF02	**V3670100**	LED Yellow/Green	LT1E40A		CH15 29/77 -36		
*	LDF03	**V3670100**	LED Yellow/Green	LT1E40A		CH15 29/77 -30		
*	LDF04	**V3670100**	LED Yellow/Green	LT1E40A		CH15 29/77 -24		
*	LDF05	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -18		
*	LDF06	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -15		
*	LDF07	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -12		
*	LDF08	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -9		
*	LDF09	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -6		
*	LDF10	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 -3		
*	LDF11	**V3670200**	LED Yellow	LT1H40A		CH15 29/77 0		
*	LDF12	**V3670000**	LED Red	LT1D40A		CH15 29/77 OVER		
*	LDF13	**V3670100**	LED Yellow/Green	LT1E40A		CH15 30/78 -48		
*	LDF14	**V3670100**	LED Yellow/Green	LT1E40A		CH15 30/78 -36		
*	LDF15	**V3670100**	LED Yellow/Green	LT1E40A		CH15 30/78 -30		
*	LDF16	**V3670100**	LED Yellow/Green	LT1E40A		CH15 30/78 -24		
*	LDF17	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -18		
*	LDF18	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -15		
*	LDF19	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -12		
*	LDF20	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -9		
*	LDF21	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -6		
*	LDF22	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 -3		
*	LDF23	**V3670200**	LED Yellow	LT1H40A		CH15 30/78 0		
*	LDF24	**V3670000**	LED Red	LT1D40A		CH15 30/78 OVER		
*	LDG01	**V3670100**	LED Yellow/Green	LT1E40A		CH16 31/79 -48		
*	LDG02	**V3670100**	LED Yellow/Green	LT1E40A		CH16 31/79 -36		
*	LDG03	**V3670100**	LED Yellow/Green	LT1E40A		CH16 31/79 -30		
*	LDG04	**V3670100**	LED Yellow/Green	LT1E40A		CH16 31/79 -24		
*	LDG05	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -18		
*	LDG06	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -15		
*	LDG07	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -12		
*	LDG08	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -9		
*	LDG09	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -6		
*	LDG10	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 -3		
*	LDG11	**V3670200**	LED Yellow	LT1H40A		CH16 31/79 0		
*	LDG12	**V3670000**	LED Red	LT1D40A		CH16 31/79 OVER		
*	LDG13	**V3670100**	LED Yellow/Green	LT1E40A		CH16 32/80 -48		
*	LDG14	**V3670100**	LED Yellow/Green	LT1E40A		CH16 32/80 -36		
*	LDG15	**V3670100**	LED Yellow/Green	LT1E40A		CH16 32/80 -30		
*	LDG16	**V3670100**	LED Yellow/Green	LT1E40A		CH16 32/80 -24		
*	LDG17	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -18		
*	LDG18	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -15		
*	LDG19	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -12		
*	LDG20	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -9		
*	LDG21	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -6		
*	LDG22	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 -3		
*	LDG23	**V3670200**	LED Yellow	LT1H40A		CH16 32/80 0		
*	LDG24	**V3670000**	LED Red	LT1D40A		CH16 32/80 OVER		
*	LDH01	**V3670100**	LED Yellow/Green	LT1E40A		CH17 33/81 -48		
*	LDH02	**V3670100**	LED Yellow/Green	LT1E40A		CH17 33/81 -36		
*	LDH03	**V3670100**	LED Yellow/Green	LT1E40A		CH17 33/81 -30		
*	LDH04	**V3670100**	LED Yellow/Green	LT1E40A		CH17 33/81 -24		
*	LDH05	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -18		
*	LDH06	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -15		
*	LDH07	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -12		
*	LDH08	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -9		

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LDH09	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -6		
*	LDH10	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 -3		
*	LDH11	**V3670200**	LED Yellow	LT1H40A		CH17 33/81 0		
*	LDH12	**V3670000**	LED Red	LT1D40A		CH17 33/81 OVER		
*	LDH13	**V3670100**	LED Yellow/Green	LT1E40A		CH17 34/82 -48		
*	LDH14	**V3670100**	LED Yellow/Green	LT1E40A		CH17 34/82 -36		
*	LDH15	**V3670100**	LED Yellow/Green	LT1E40A		CH17 34/82 -30		
*	LDH16	**V3670100**	LED Yellow/Green	LT1E40A		CH17 34/82 -24		
*	LDH17	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -18		
*	LDH18	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -15		
*	LDH19	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -12		
*	LDH20	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -9		
*	LDH21	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -6		
*	LDH22	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 -3		
*	LDH23	**V3670200**	LED Yellow	LT1H40A		CH17 34/82 0		
*	LDH24	**V3670000**	LED Red	LT1D40A		CH17 34/82 OVER		
*	LDJ01	**V3670100**	LED Yellow/Green	LT1E40A		CH18 35/83 -48		
*	LDJ02	**V3670100**	LED Yellow/Green	LT1E40A		CH18 35/83 -36		
*	LDJ03	**V3670100**	LED Yellow/Green	LT1E40A		CH18 35/83 -30		
*	LDJ04	**V3670100**	LED Yellow/Green	LT1E40A		CH18 35/83 -24		
*	LDJ05	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -18		
*	LDJ06	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -15		
*	LDJ07	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -12		
*	LDJ08	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -9		
*	LDJ09	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -6		
*	LDJ10	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 -3		
*	LDJ11	**V3670200**	LED Yellow	LT1H40A		CH18 35/83 0		
*	LDJ12	**V3670000**	LED Red	LT1D40A		CH18 35/83 OVER		
*	LDJ13	**V3670100**	LED Yellow/Green	LT1E40A		CH18 36/84 -48		
*	LDJ14	**V3670100**	LED Yellow/Green	LT1E40A		CH18 36/84 -36		
*	LDJ15	**V3670100**	LED Yellow/Green	LT1E40A		CH18 36/84 -30		
*	LDJ16	**V3670100**	LED Yellow/Green	LT1E40A		CH18 36/84 -24		
*	LDJ17	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -18		
*	LDJ18	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -15		
*	LDJ19	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -12		
*	LDJ20	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -9		
*	LDJ21	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -6		
*	LDJ22	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 -3		
*	LDJ23	**V3670200**	LED Yellow	LT1H40A		CH18 36/84 0		
*	LDJ24	**V3670000**	LED Red	LT1D40A		CH18 36/84 OVER		
*	LDK01	**V3670100**	LED Yellow/Green	LT1E40A		CH19 37/85 -48		
*	LDK02	**V3670100**	LED Yellow/Green	LT1E40A		CH19 37/85 -36		
*	LDK03	**V3670100**	LED Yellow/Green	LT1E40A		CH19 37/85 -30		
*	LDK04	**V3670100**	LED Yellow/Green	LT1E40A		CH19 37/85 -24		
*	LDK05	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -18		
*	LDK06	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -15		
*	LDK07	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -12		
*	LDK08	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -9		
*	LDK09	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -6		
*	LDK10	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 -3		
*	LDK11	**V3670200**	LED Yellow	LT1H40A		CH19 37/85 0		
*	LDK12	**V3670000**	LED Red	LT1D40A		CH19 37/85 OVER		
*	LDK13	**V3670100**	LED Yellow/Green	LT1E40A		CH19 38/86 -48		
*	LDK14	**V3670100**	LED Yellow/Green	LT1E40A		CH19 38/86 -36		
*	LDK15	**V3670100**	LED Yellow/Green	LT1E40A		CH19 38/86 -30		
*	LDK16	**V3670100**	LED Yellow/Green	LT1E40A		CH19 38/86 -24		
*	LDK17	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -18		
*	LDK18	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -15		
*	LDK19	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -12		
*	LDK20	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -9		
*	LDK21	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -6		
*	LDK22	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 -3		
*	LDK23	**V3670200**	LED Yellow	LT1H40A		CH19 38/86 0		
*	LDK24	**V3670000**	LED Red	LT1D40A		CH19 38/86 OVER		
*	LDL01	**V3670100**	LED Yellow/Green	LT1E40A		CH20 39/87 -48		
*	LDL02	**V3670100**	LED Yellow/Green	LT1E40A		CH20 39/87 -36		
*	LDL03	**V3670100**	LED Yellow/Green	LT1E40A		CH20 39/87 -30		
*	LDL04	**V3670100**	LED Yellow/Green	LT1E40A		CH20 39/87 -24		
*	LDL05	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -18		
*	LDL06	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -15		

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LDL07	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -12		
*	LDL08	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -9		
*	LDL09	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -6		
*	LDL10	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 -3		
*	LDL11	**V3670200**	LED Yellow	LT1H40A		CH20 39/87 0		
*	LDL12	**V3670000**	LED Red	LT1D40A		CH20 39/87 OVER		
*	LDL13	**V3670100**	LED Yellow/Green	LT1E40A		CH20 40/88 -48		
*	LDL14	**V3670100**	LED Yellow/Green	LT1E40A		CH20 40/88 -36		
*	LDL15	**V3670100**	LED Yellow/Green	LT1E40A		CH20 40/88 -30		
*	LDL16	**V3670100**	LED Yellow/Green	LT1E40A		CH20 40/88 -24		
*	LDL17	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -18		
*	LDL18	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -15		
*	LDL19	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -12		
*	LDL20	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -9		
*	LDL21	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -6		
*	LDL22	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 -3		
*	LDL23	**V3670200**	LED Yellow	LT1H40A		CH20 40/88 0		
*	LDL24	**V3670000**	LED Red	LT1D40A		CH20 40/88 OVER		
*	LDM01	**V3670100**	LED Yellow/Green	LT1E40A		CH21 41/89 -48		
*	LDM02	**V3670100**	LED Yellow/Green	LT1E40A		CH21 41/89 -36		
*	LDM03	**V3670100**	LED Yellow/Green	LT1E40A		CH21 41/89 -30		
*	LDM04	**V3670100**	LED Yellow/Green	LT1E40A		CH21 41/89 -24		
*	LDM05	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -18		
*	LDM06	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -15		
*	LDM07	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -12		
*	LDM08	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -9		
*	LDM09	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -6		
*	LDM10	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 -3		
*	LDM11	**V3670200**	LED Yellow	LT1H40A		CH21 41/89 0		
*	LDM12	**V3670000**	LED Red	LT1D40A		CH21 41/89 OVER		
*	LDM13	**V3670100**	LED Yellow/Green	LT1E40A		CH21 42/90 -48		
*	LDM14	**V3670100**	LED Yellow/Green	LT1E40A		CH21 42/90 -36		
*	LDM15	**V3670100**	LED Yellow/Green	LT1E40A		CH21 42/90 -30		
*	LDM16	**V3670100**	LED Yellow/Green	LT1E40A		CH21 42/90 -24		
*	LDM17	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -18		
*	LDM18	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -15		
*	LDM19	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -12		
*	LDM20	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -9		
*	LDM21	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -6		
*	LDM22	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 -3		
*	LDM23	**V3670200**	LED Yellow	LT1H40A		CH21 42/90 0		
*	LDM24	**V3670000**	LED Red	LT1D40A		CH21 42/90 OVER		
*	LDN01	**V3670100**	LED Yellow/Green	LT1E40A		CH22 43/91 -48		
*	LDN02	**V3670100**	LED Yellow/Green	LT1E40A		CH22 43/91 -36		
*	LDN03	**V3670100**	LED Yellow/Green	LT1E40A		CH22 43/91 -30		
*	LDN04	**V3670100**	LED Yellow/Green	LT1E40A		CH22 43/91 -24		
*	LDN05	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -18		
*	LDN06	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -15		
*	LDN07	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -12		
*	LDN08	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -9		
*	LDN09	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -6		
*	LDN10	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 -3		
*	LDN11	**V3670200**	LED Yellow	LT1H40A		CH22 43/91 0		
*	LDN12	**V3670000**	LED Red	LT1D40A		CH22 43/91 OVER		
*	LDN13	**V3670100**	LED Yellow/Green	LT1E40A		CH22 44/92 -48		
*	LDN14	**V3670100**	LED Yellow/Green	LT1E40A		CH22 44/92 -36		
*	LDN15	**V3670100**	LED Yellow/Green	LT1E40A		CH22 44/92 -30		
*	LDN16	**V3670100**	LED Yellow/Green	LT1E40A		CH22 44/92 -24		
*	LDN17	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -18		
*	LDN18	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -15		
*	LDN19	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -12		
*	LDN20	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -9		
*	LDN21	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -6		
*	LDN22	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 -3		
*	LDN23	**V3670200**	LED Yellow	LT1H40A		CH22 44/92 0		
*	LDN24	**V3670000**	LED Red	LT1D40A		CH22 44/92 OVER		
*	LDP01	**V3670100**	LED Yellow/Green	LT1E40A		CH23 45/93 -48		
*	LDP02	**V3670100**	LED Yellow/Green	LT1E40A		CH23 45/93 -36		
*	LDP03	**V3670100**	LED Yellow/Green	LT1E40A		CH23 45/93 -30		
*	LDP04	**V3670100**	LED Yellow/Green	LT1E40A		CH23 45/93 -24		

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*	LDP05	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -18		
*	LDP06	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -15		
*	LDP07	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -12		
*	LDP08	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -9		
*	LDP09	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -6		
*	LDP10	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 -3		
*	LDP11	**V3670200**	LED Yellow	LT1H40A		CH23 45/93 0		
*	LDP12	**V3670000**	LED Red	LT1D40A		CH23 45/93 OVER		
*	LDP13	**V3670100**	LED Yellow/Green	LT1E40A		CH23 46/94 -48		
*	LDP14	**V3670100**	LED Yellow/Green	LT1E40A		CH23 46/94 -36		
*	LDP15	**V3670100**	LED Yellow/Green	LT1E40A		CH23 46/94 -30		
*	LDP16	**V3670100**	LED Yellow/Green	LT1E40A		CH23 46/94 -24		
*	LDP17	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -18		
*	LDP18	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -15		
*	LDP19	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -12		
*	LDP20	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -9		
*	LDP21	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -6		
*	LDP22	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 -3		
*	LDP23	**V3670200**	LED Yellow	LT1H40A		CH23 46/94 0		
*	LDP24	**V3670000**	LED Red	LT1D40A		CH23 46/94 OVER		
*	LDQ01	**V3670100**	LED Yellow/Green	LT1E40A		CH24 47/95 -48		
*	LDQ02	**V3670100**	LED Yellow/Green	LT1E40A		CH24 47/95 -36		
*	LDQ03	**V3670100**	LED Yellow/Green	LT1E40A		CH24 47/95 -30		
*	LDQ04	**V3670100**	LED Yellow/Green	LT1E40A		CH24 47/95 -24		
*	LDQ05	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -18		
*	LDQ06	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -15		
*	LDQ07	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -12		
*	LDQ08	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -9		
*	LDQ09	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -6		
*	LDQ10	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 -3		
*	LDQ11	**V3670200**	LED Yellow	LT1H40A		CH24 47/95 0		
*	LDQ12	**V3670000**	LED Red	LT1D40A		CH24 47/95 OVER		
*	LDQ13	**V3670100**	LED Yellow/Green	LT1E40A		CH24 48/96 -48		
*	LDQ14	**V3670100**	LED Yellow/Green	LT1E40A		CH24 48/96 -36		
*	LDQ15	**V3670100**	LED Yellow/Green	LT1E40A		CH24 48/96 -30		
*	LDQ16	**V3670100**	LED Yellow/Green	LT1E40A		CH24 48/96 -24		
*	LDQ17	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -18		
*	LDQ18	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -15		
*	LDQ19	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -12		
*	LDQ20	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -9		
*	LDQ21	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -6		
*	LDQ22	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 -3		
*	LDQ23	**V3670200**	LED Yellow	LT1H40A		CH24 48/96 0		
*	LDQ24	**V3670000**	LED Red	LT1D40A		CH24 48/96 OVER		
*	LDR01	**V3670100**	LED Yellow/Green	LT1E40A		1-48		
*	LDR02	**V3670100**	LED Yellow/Green	LT1E40A		49-96		
*	LDR03	**V3670100**	LED Yellow/Green	LT1E40A		1-24		
*	LDR04	**V3670100**	LED Yellow/Green	LT1E40A		25-48		
*	LDR05	**V3670100**	LED Yellow/Green	LT1E40A		49-72		
*	LDR06	**V3670100**	LED Yellow/Green	LT1E40A		73-96		
*	LDR07	**V3670100**	LED Yellow/Green	LT1E40A		MASTER		
*	LDR08	**V3670100**	LED Yellow/Green	LT1E40A		PRE EQ (OUTPUT)		
*	LDR09	**V3670100**	LED Yellow/Green	LT1E40A		PRE FADER (OUTPUT)		
*	LDR10	**V3670100**	LED Yellow/Green	LT1E40A		POST FADER (OUTPUT)		
*	LDR11	**V3670200**	LED Yellow	LT1H40A		PEAK HOLD		
*	LDR12	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE1		
*	LDR13	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE2		
*	LDR14	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE3		
*	LDR15	**V3670100**	LED Yellow/Green	LT1E40A		REMOTE4		
	R101	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-104	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R105	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-107	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R108	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-115	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R116	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-118	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R119	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-126	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R128	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	-130	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R201	**RD256300**	Carbon Resistor (chip)	3.0K 0.1 J				01
	R202	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-205	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R206	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-208	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R209	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	-220	**RD255100**	Carbon Resistor (chip)	100.0 0.1 J				01
	R221	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	-223	**RD256100**	Carbon Resistor (chip)	1.0K 0.1 J				01
	R227	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R228	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R230	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R232	**RD250000**	Carbon Resistor (chip)	0.0 0.0 J				01
	R233	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R234	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R235	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R236	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R237	**RD255220**	Carbon Resistor (chip)	220.0 0.1 J				01
	R238	**RD256300**	Carbon Resistor (chip)	3.0K 0.1 J				01
	R239	**RD257100**	Carbon Resistor (chip)	10.0K 0.1 J				01
	R250	**RD156100**	Carbon Resistor (chip)	1.0K 1/4 J				
	RA101	**RE047100**	Resistor Array	10KX4				01
	RA102	**RE046220**	Resistor Array	2.2KX4				01
	-107	**RE046220**	Resistor Array	2.2KX4				01
	RA201	**RE046220**	Resistor Array	2.2KX4				01
	-204	**RE046220**	Resistor Array	2.2KX4				01
	RA205	**RE047100**	Resistor Array	10KX4				01
	-225	**RE047100**	Resistor Array	10KX4				01
	SW101	**VV056000**	Tact Switch	SKQNAED010		INPUT METERING POSITION		01
	SW201	**VV056000**	Tact Switch	SKQNAED010		1-48		01
	SW202	**VV056000**	Tact Switch	SKQNAED010		OUTPUT METERING POSITION		01
	SW203	**VV056000**	Tact Switch	SKQNAED010		REMOTE1		01
	SW204	**VV056000**	Tact Switch	SKQNAED010		49-96		01
	SW205	**VV056000**	Tact Switch	SKQNAED010		REMOTE2		01
	SW206	**VV056000**	Tact Switch	SKQNAED010		1-24		01
	SW207	**VV056000**	Tact Switch	SKQNAED010		REMOTE3		01
	SW208	**VV056000**	Tact Switch	SKQNAED010		25-48		01
	SW209	**VV056000**	Tact Switch	SKQNAED010		PEAK HOLD		01
	SW210	**VV056000**	Tact Switch	SKQNAED010		REMOTE4		01
	SW211	**VV056000**	Tact Switch	SKQNAED010		49-72		01
	SW212	**VV056000**	Tact Switch	SKQNAED010		CONTROL ROOM		01
	SW213	**VV056000**	Tact Switch	SKQNAED010		73-96		01
	SW214	**VV056000**	Tact Switch	SKQNAED010		MASTER		01
	TA201	**VQ248500**	Transistor Array	TD62381F				04
	VR201	**V3820700**	Rotary Variable Resistor	B 10K RK09K1130A5R		LAMP DIMMER		01
*	W102	**V8393000**	Jumper Wire	FVP=2.0C26SB10-200				
*	W201	**V8393100**	Jumper Wire	FVP=2.0C26SB17-200				
	X201	**V3719200**	Quartz Crystal Unit	6.7584MHz SMD-49				03
		VA728100	Cannon Connector	XLR-4-31-F77		LAMP		10
*		**V6552600**	DSUB Cable	DSUB15P 0.5m				

*: New Parts

RANK: Japan only

WOODEN SIDE PANELS

SP2000

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY 2

Notes : DESTINATION ABBREVIATIONS

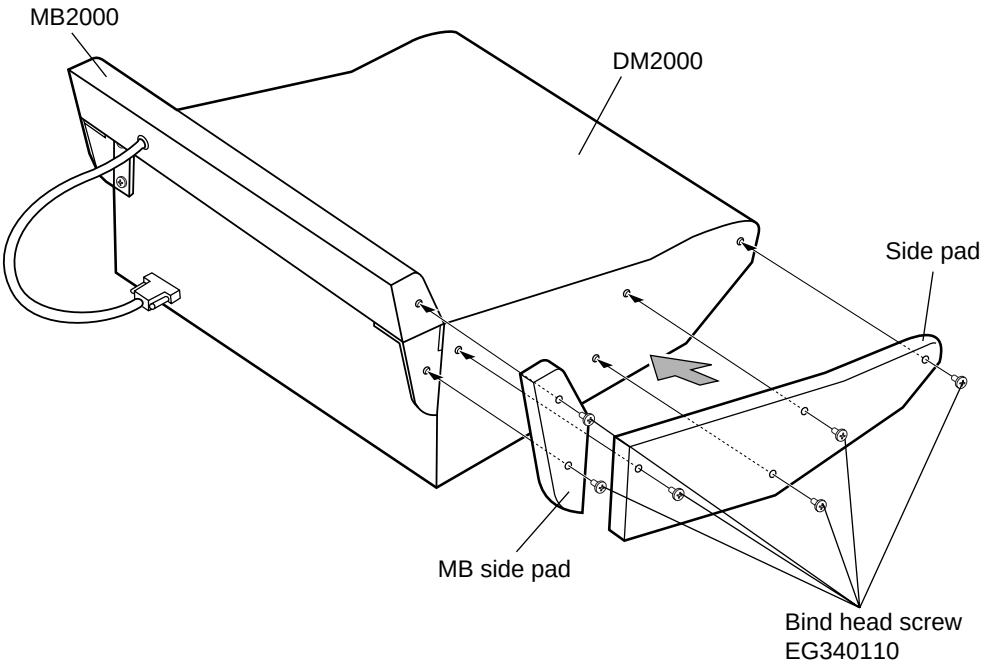
A : Australian model	M : South African model
B : British model	O : Chinese model
C : Canadian model	Q : South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

OVERALL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		OVERALL ASSEMBLY			SP2000		
	--	Overall Assembly			J (V823830)		
	--	Overall Assembly			Y (V846770)		
	EG340110	Bind Head Screw	4.0X16 MFZN2BL			12	01
	--	Side Pad L	LEFT		(V631280)		
	--	Side Pad R	RIGHT		(V631290)		
	--	MB Side Pad L	LEFT		(V631300)		
	--	MB Side Pad R	RIGHT		(V631310)		

✻: New Parts

RANK: Japan only

DIGITAL PRODUCTION CONSOLE

DM2000

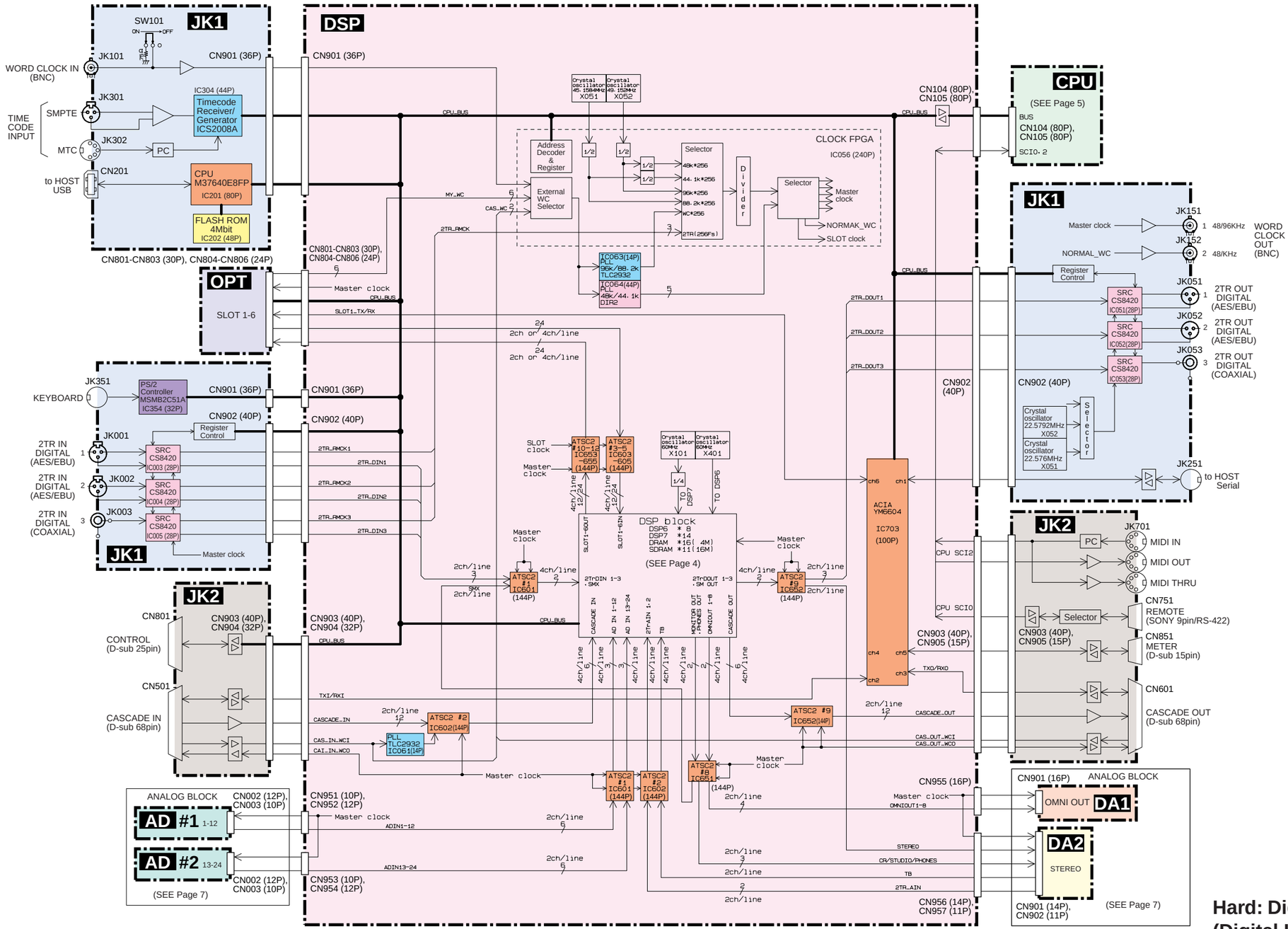
CIRCUIT DIAGRAM

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AD 15
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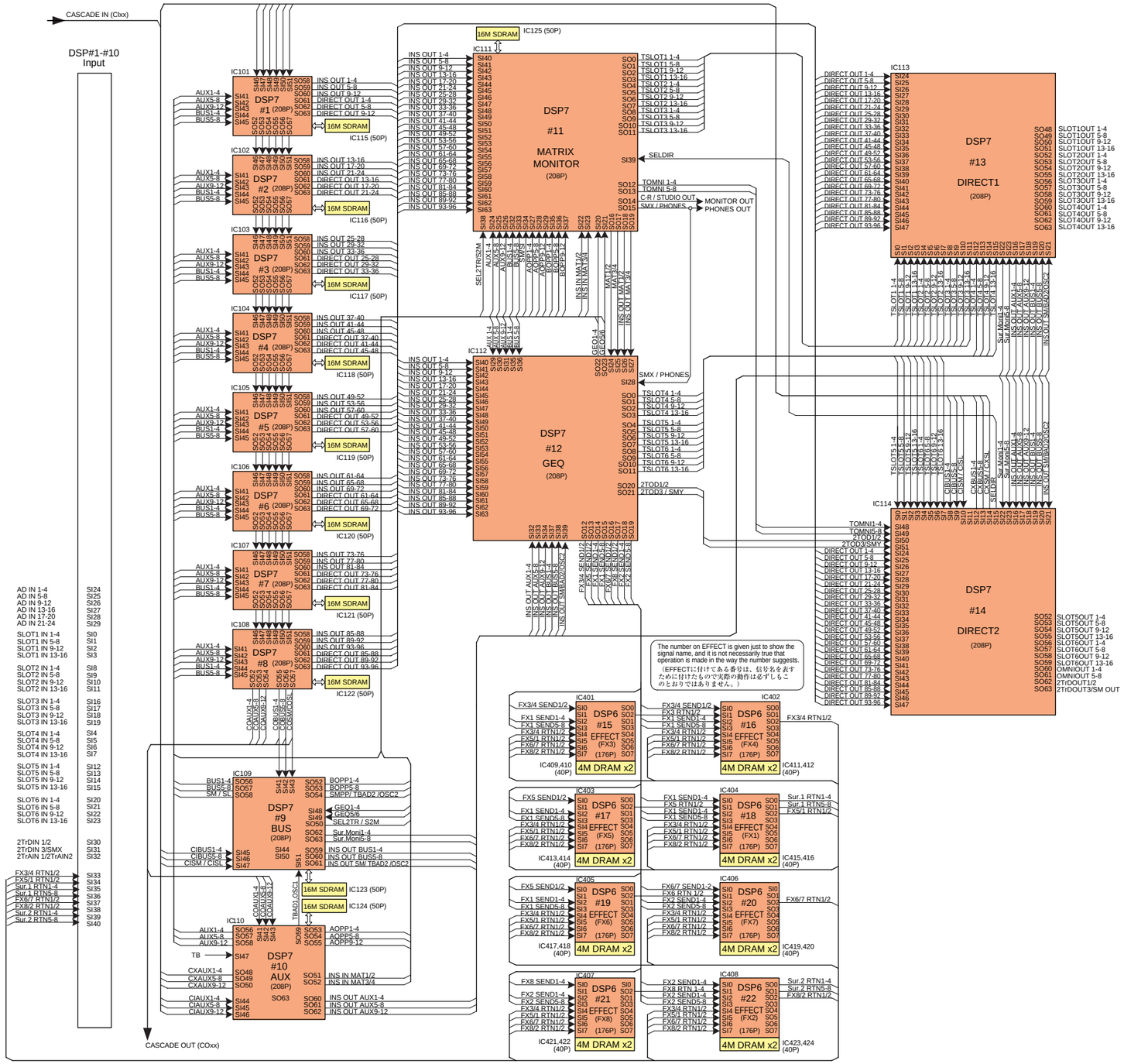
Note: See parts list for details of circuit board component parts.

■ BLOCK DIAGRAM 002 (DM2000)



Hard: Digital block (Digital I/O, DSP block)

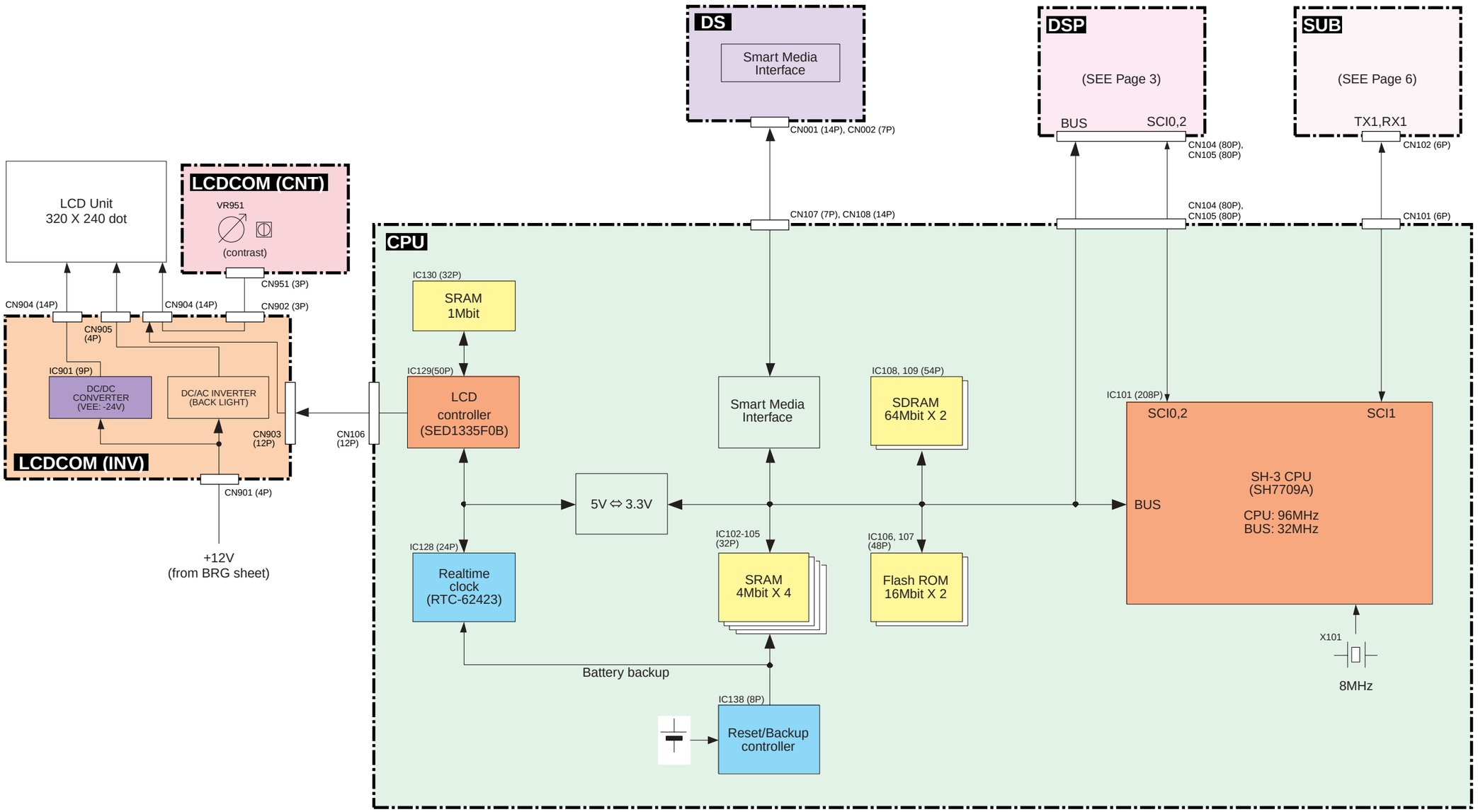
■ BLOCK DIAGRAM 003 (DM2000)



DSP block

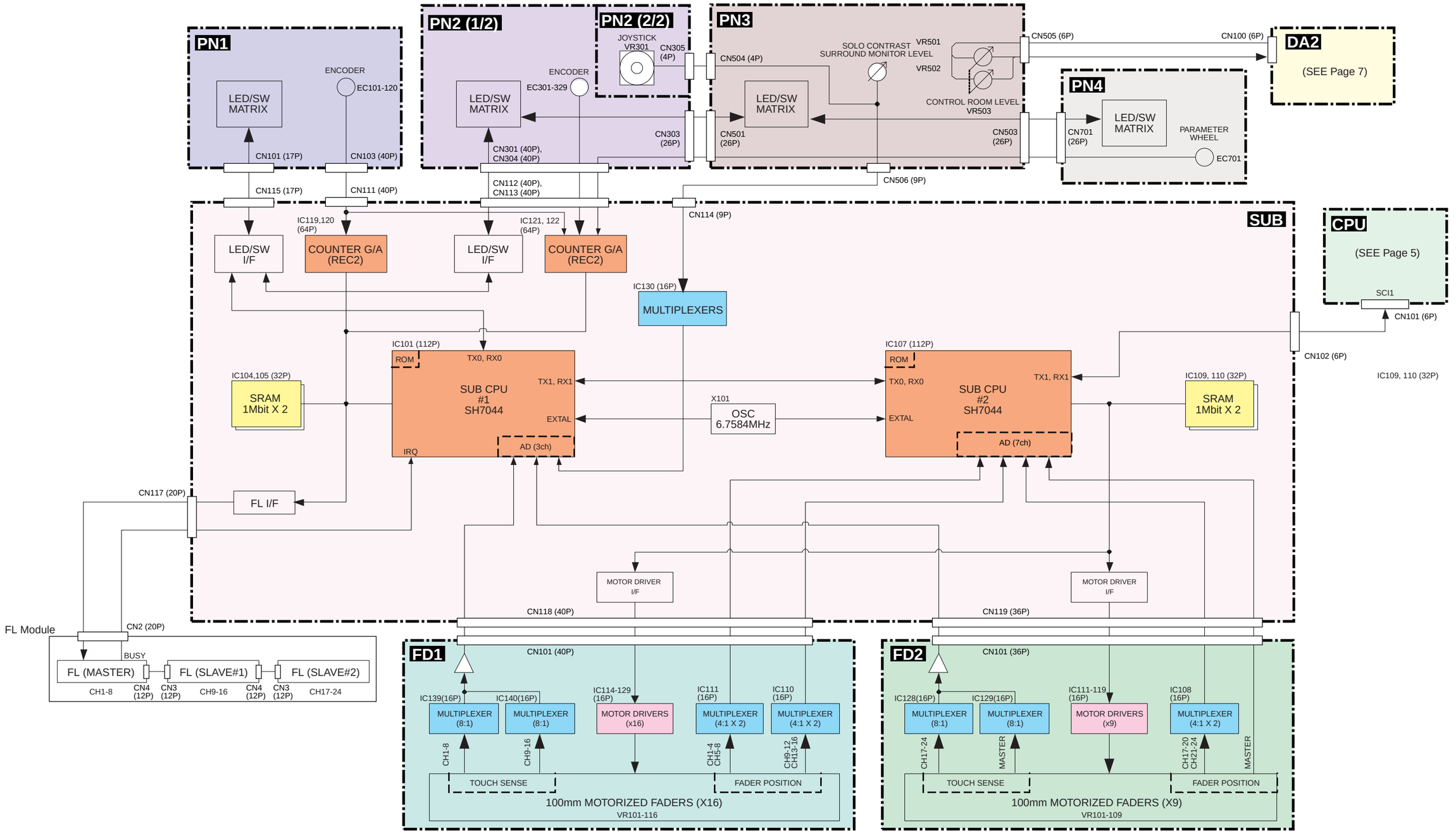
■ BLOCK DIAGRAM 003 (DM2000)

■ BLOCK DIAGRAM 004 (DM2000)



Hard: Digital block
(System, Memory control, LCD display)

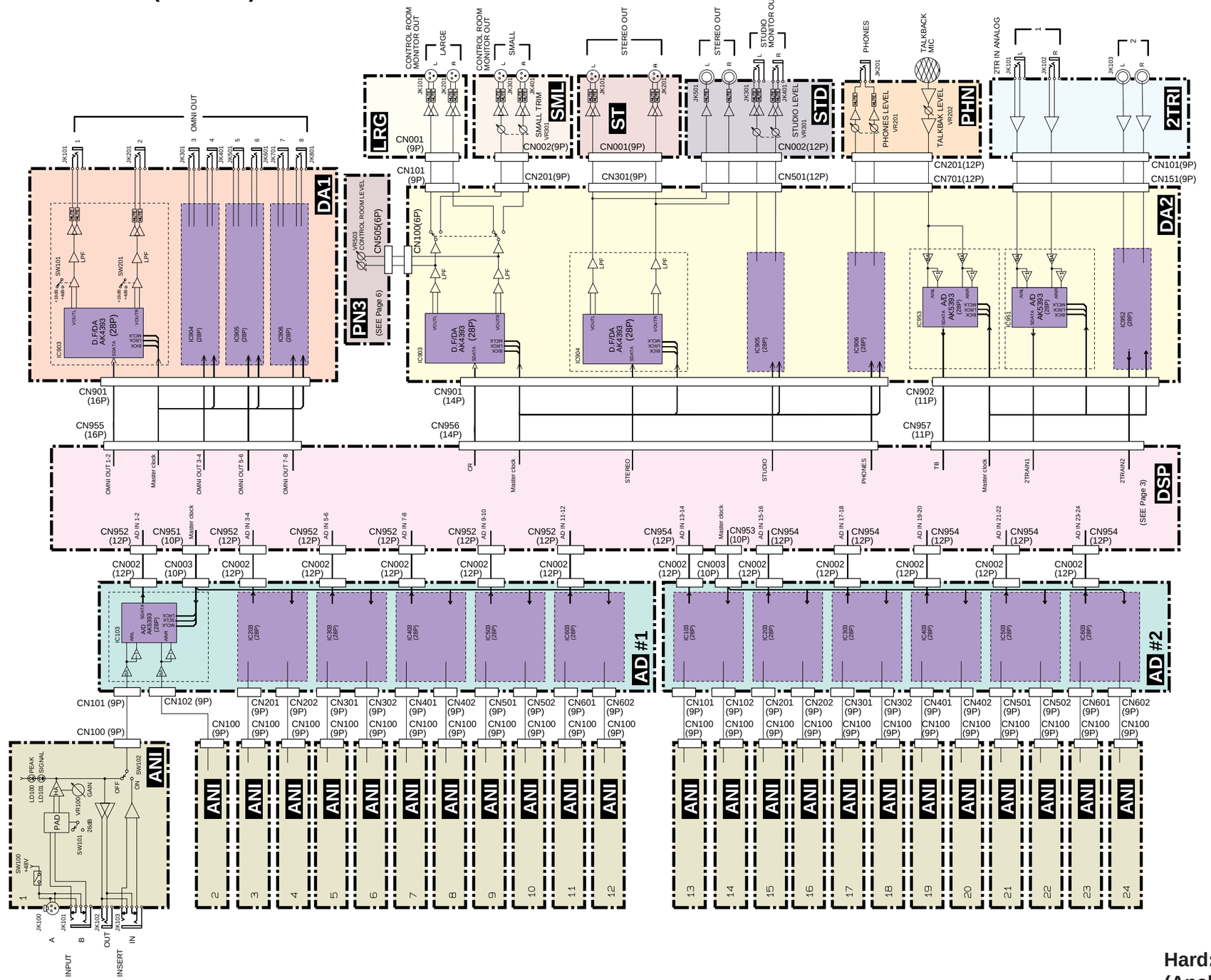
■ BLOCK DIAGRAM 005 (DM2000)



Hard: Digital block (Panel display, Operation control)

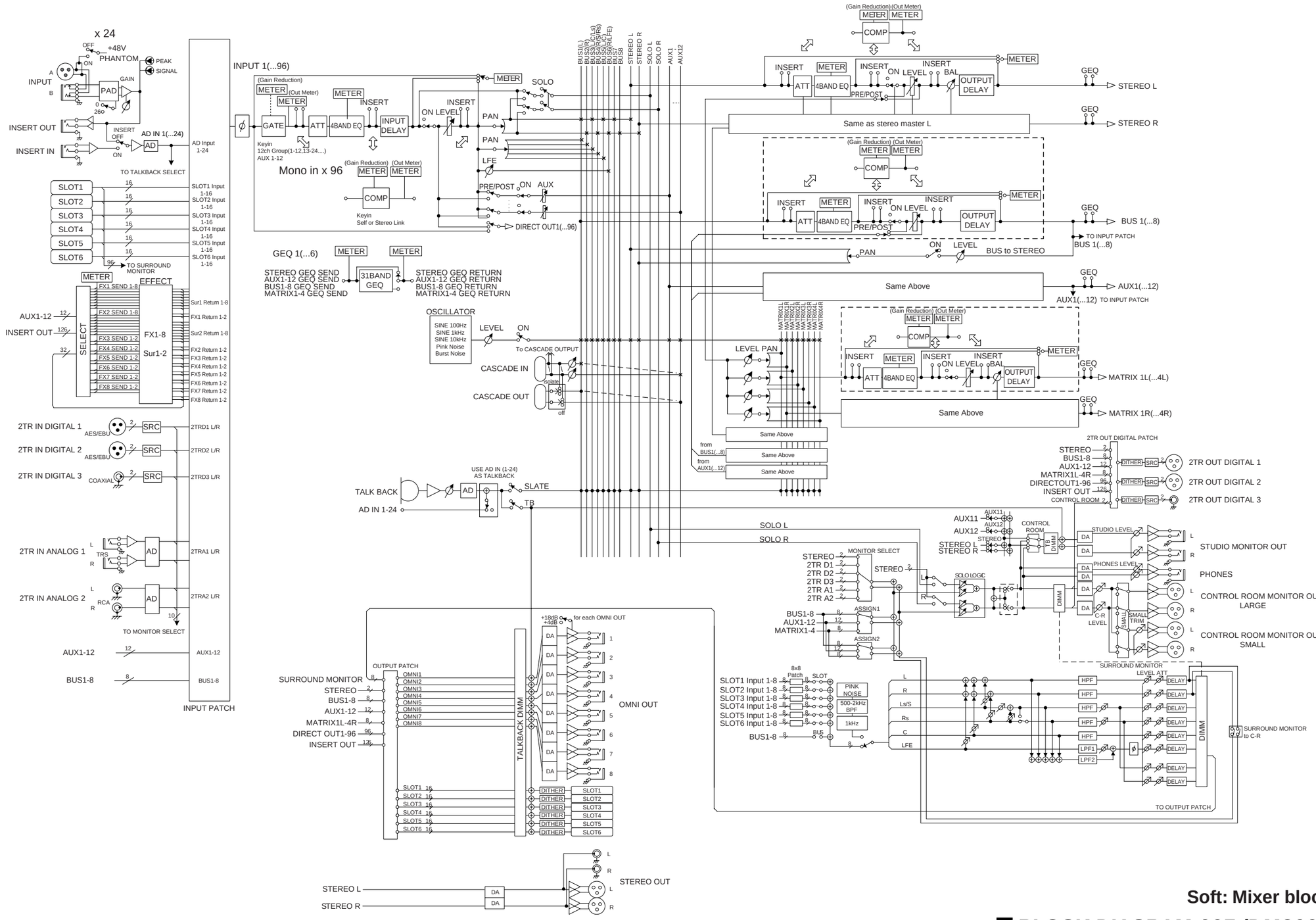
■ BLOCK DIAGRAM 005 (DM2000)

■ BLOCK DIAGRAM 006 (DM2000)



DM2000

■ BLOCK DIAGRAM 007 (DM2000)

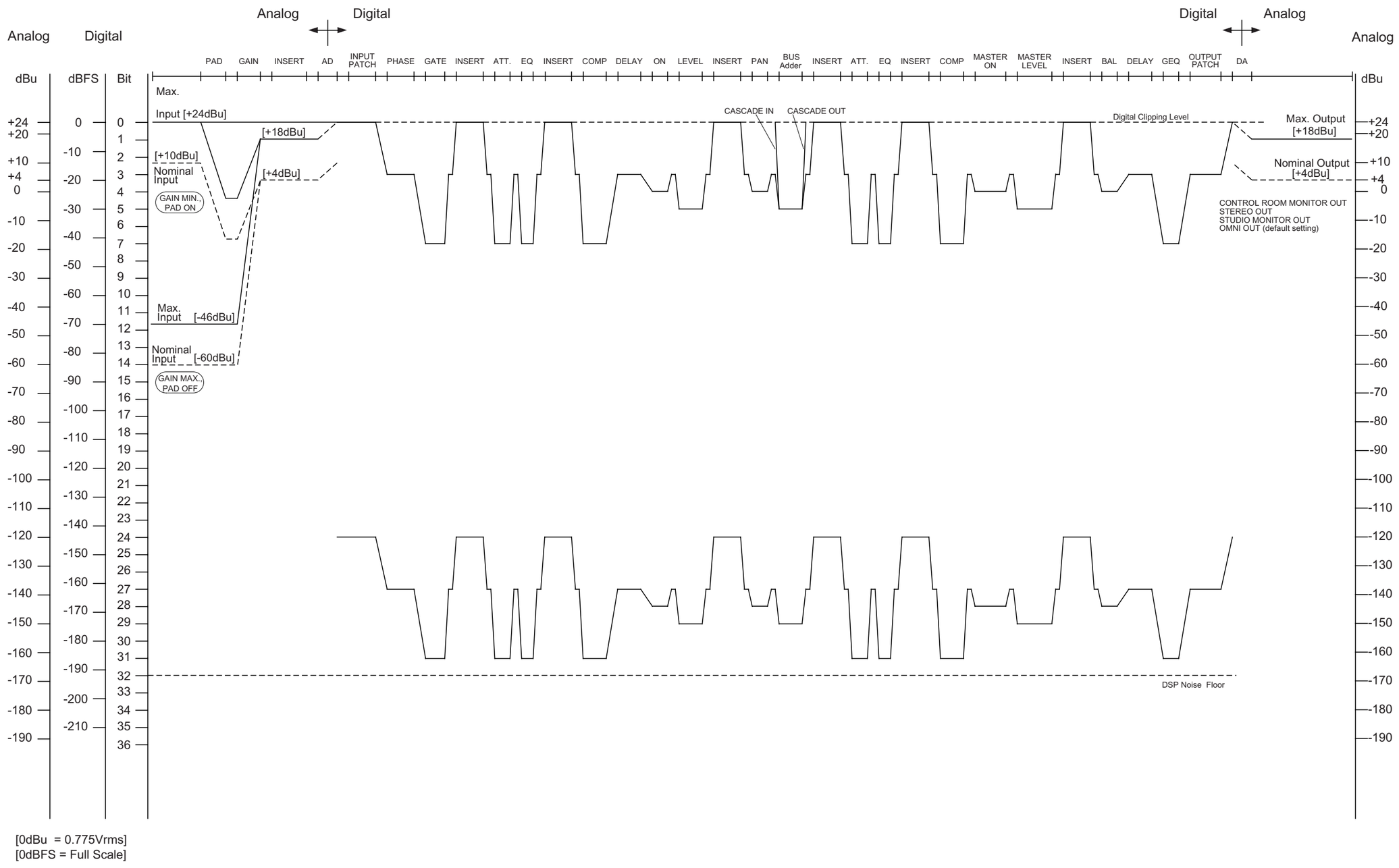


Soft: Mixer block

■ BLOCK DIAGRAM 007 (DM2000)

38CA1-8822214-7 ⚠2

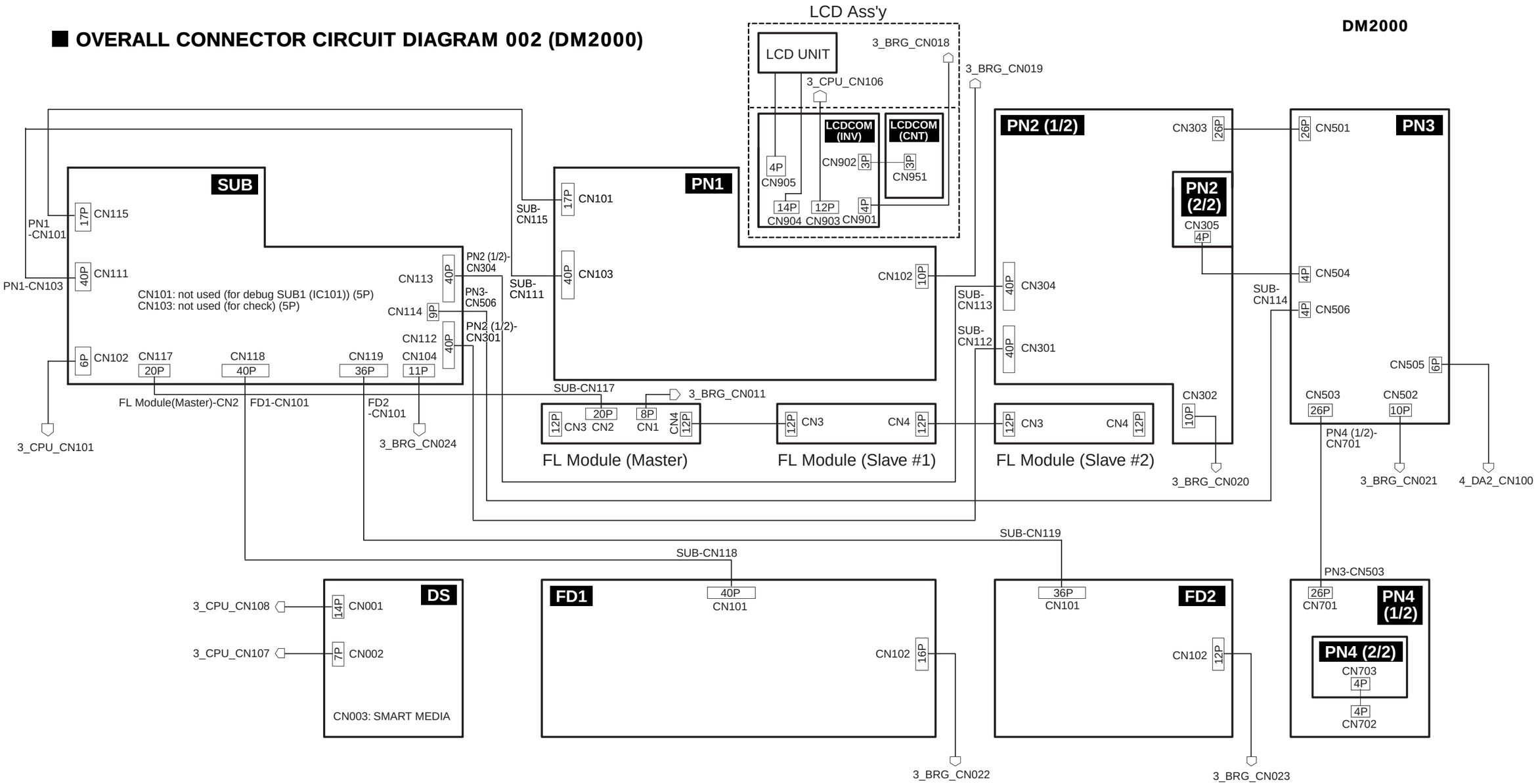
■ BLOCK DIAGRAM 008 (DM2000)



Level diagram

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 002 (DM2000)

DM2000



CN101: not used (for debug SUB1 (IC101)) (5P)
CN103: not used (for check) (5P)

Note) ・ ☐ indicates the sheet name. (☐ 内はシート名称を示します。)

・ Pin 1 of each connector is connected to pin 1 of the destination connector.
(全てのコネクタの 1 ピンは、接続先コネクタの 1 ピンに接続されます。)

・ Connectors are identified by the following items.
(コネクタの読み方については下記の通りとします。)

CN * * *
- Connector No. (コネクタ番号)
- * * P — Connector (コネクタ)
- Number of pins (Pin数)

・Inter-assembly connections are indicated as follows.
(Ass'y間のコネクタ接続については下記の通りとします。)

Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows.
(Ass'y間の接続は左記の符号にて示します。また接続先は下記の表示通りとします。)

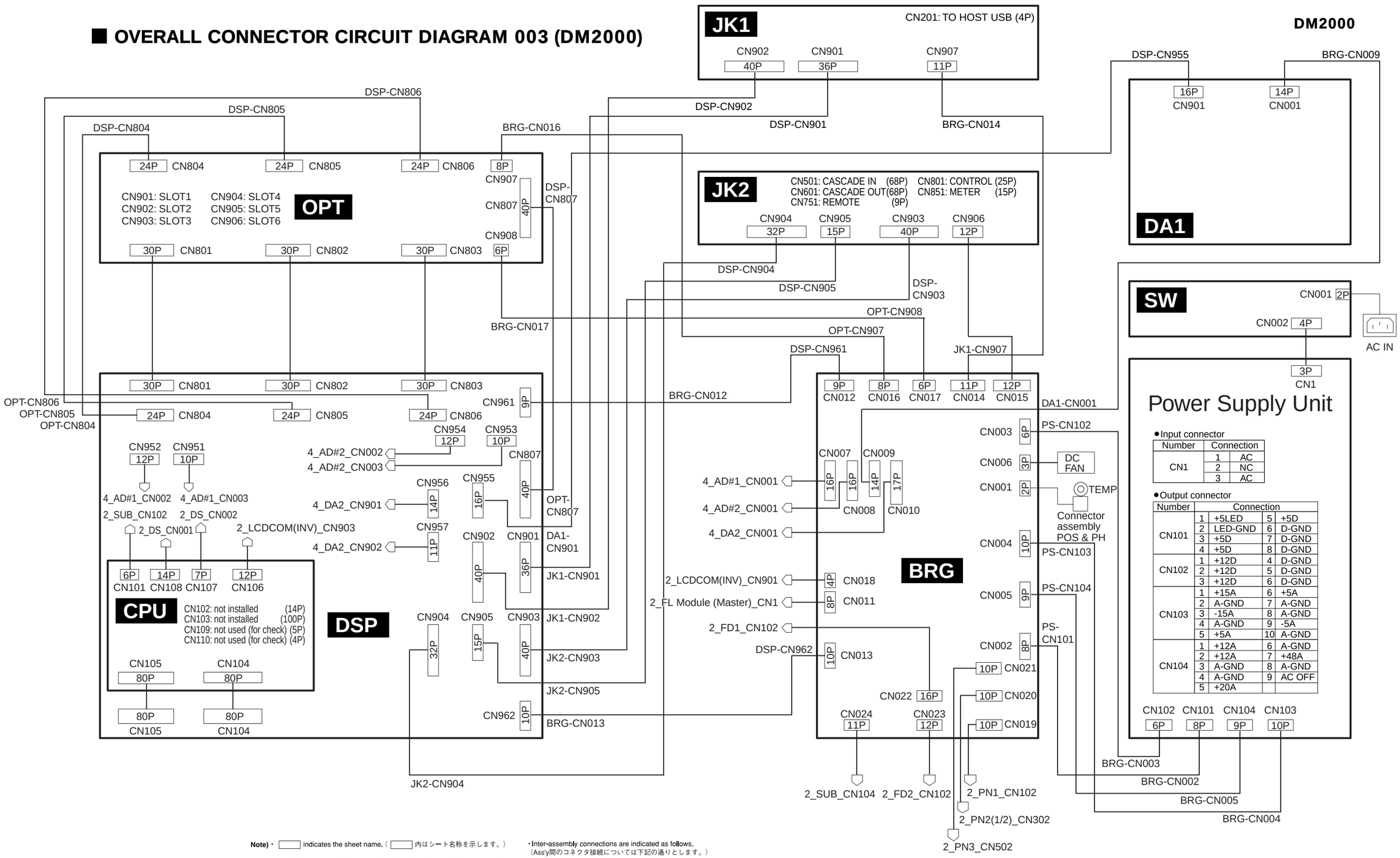
* _ * * * * _ CN * * *
- Destination connector No. (接続先コネクタ番号)
- Destination sheet name (接続先シート名)
- Destination page of the signal (信号の行き先ページ番号)

Control Panel Assembly

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 002 (DM2000)

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 003 (DM2000)

DM2000



● Input connector

Number	Connection
CN1	1 AC
	2 NC
	3 AC

● Output connector

Number				
CN101	1	+5LED	5	+5D
	2	LED-GND	6	D-GND
	3	+5D	7	D-GND
	4	+5D	8	D-GND
CN102	1	+12D	4	D-GND
	2	+12D	5	D-GND
	3	+12D	6	D-GND
CN103	1	+15A	6	+5A
	2	A-GND	7	A-GND
	3	-15A	8	A-GND
	4	A-GND	9	-5A
	5	+5A	10	A-GND
CN104	1	+12A	6	A-GND
	2	+12A	7	+48A
	3	A-GND	8	A-GND
	4	A-GND	9	AC OFF
	5	+20A		

Note) ・ ☐ indicates the sheet name.（☐ 内はシート名称を示します。）

- Pin 1 of each connector is connected to pin 1 of the destination connector.
（全てのコネクタの１ピンは、接続先コネクタの１ピンに接続されます。）
- Connectors are identified by the following items.
（コネクタの読み方については下記の通りとします。）

CN＊＊＊ — Connector No.（コネクタ番号）
＊＊P — Connector（コネクタ）
Number of pins（Pin数）

・Inter-assembly connections are indicated as follows.
（Ass'y間のコネクタ接続については下記の通りとします。）

Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows.
（Ass'y間の接続は左記の符号にて示します。また接続先は下記の表示通りとします。）

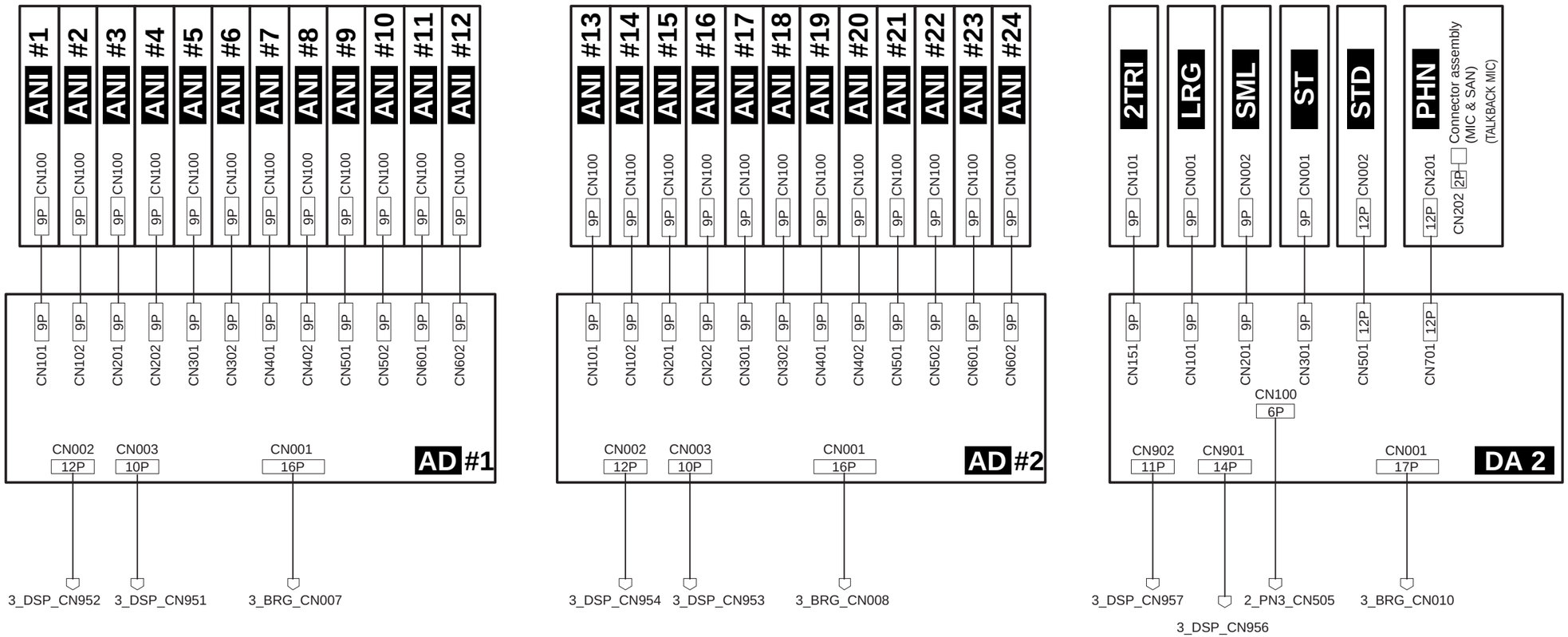
＊_＊＊＊_CN＊＊＊
Destination connector No.（接続先コネクタ番号）
Destination sheet name（接続先シート名）
Destination page of the signal（信号の行き先ページ番号）

Bottom Assembly

38CA2-8822215-3

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 003 (DM2000)

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 004 (DM2000)



Note) • ☐ indicates the sheet name. (☐ 内はシート名称を示します。)

- Pin 1 of each connector is connected to pin 1 of the destination connector. (全てのコネクタの 1 ピンは、接続先コネクタの 1 ピンに接続されます。)
- Connectors are identified by the following items. (コネクタの読み方については下記の通りとします。)

CN * * *
* * P
Connector No. (コネクタ番号)
Connector (コネクタ)
Number of pins (Pin数)

• Inter-assembly connections are indicated as follows. (Ass'y間のコネクタ接続については下記の通りとします。)

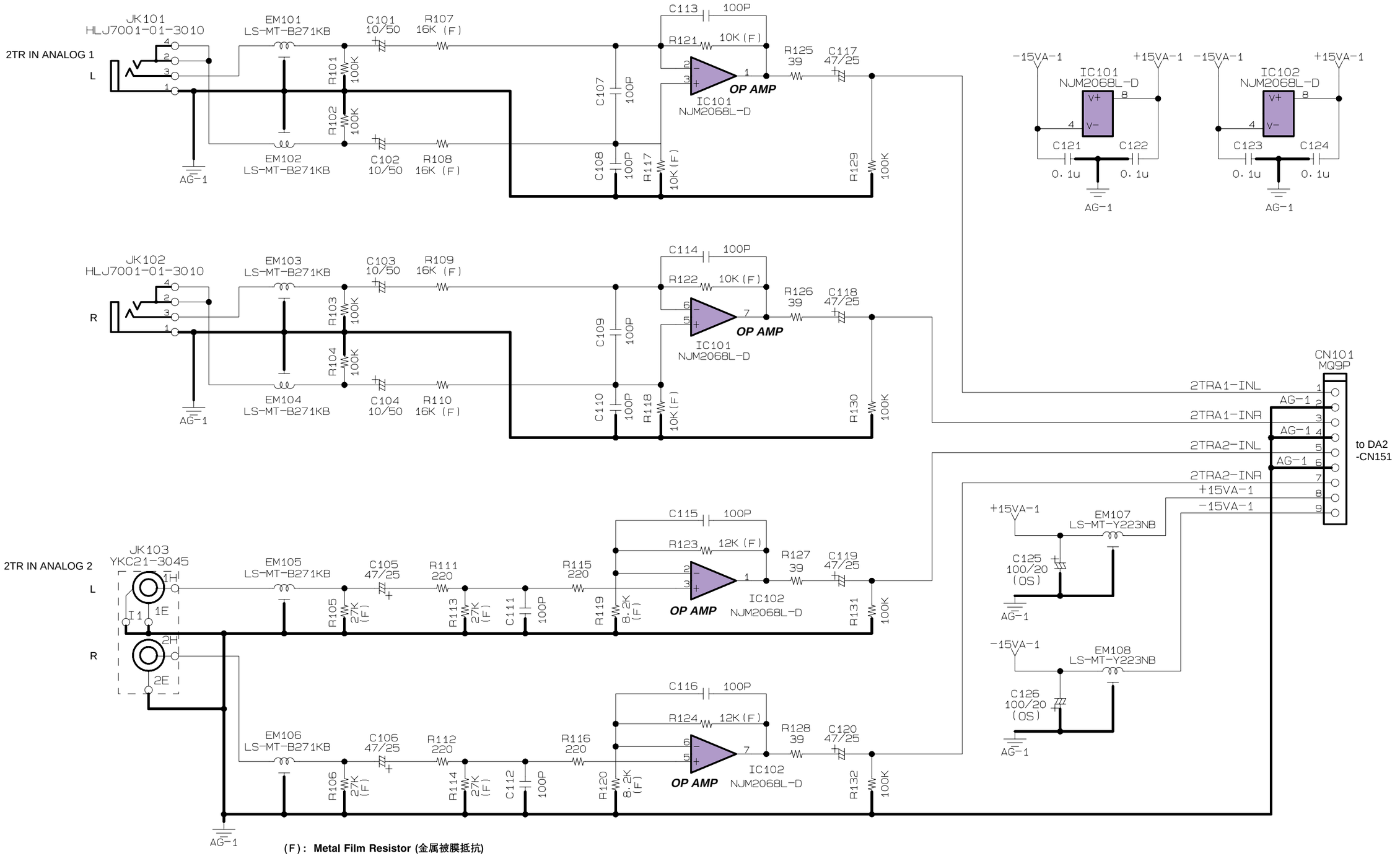
Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows. (Ass'y間の接続は左記の符号にて示します。また接続先は下記の表示通りとします。)

* _ * * * * _ CN * * *
Destination connector No. (接続先コネクタ番号)
Destination sheet name (接続先シート名)
Destination page of the signal (信号の行き先ページ番号)

■ OVERALL CONNECTOR CIRCUIT DIAGRAM 004 (DM2000)

■ 2TRI OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



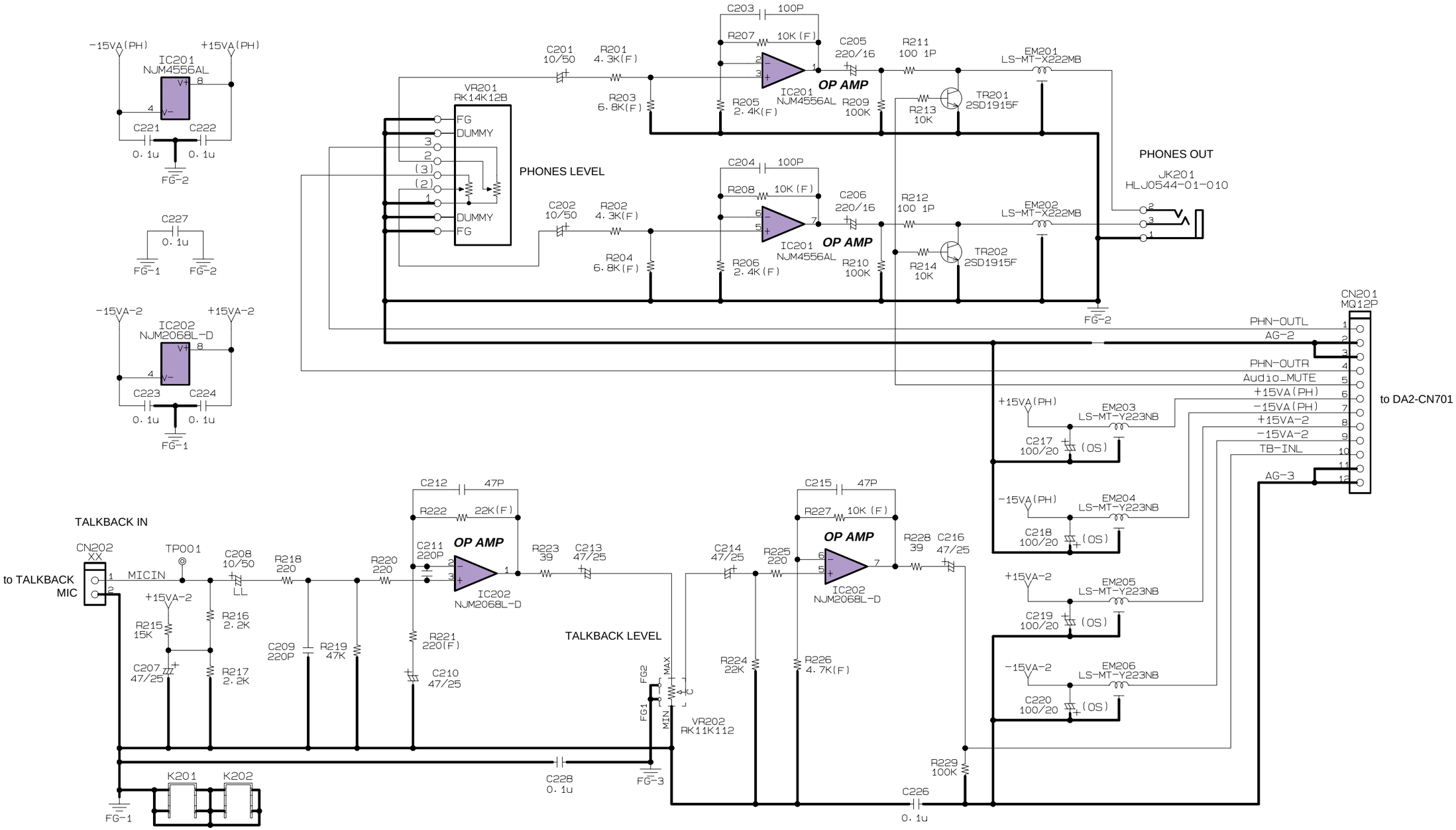
(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

■ 2TRI OVERALL CIRCUIT DIAGRAM (DM2000)

■ PHN OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

XX : **not installed (未実装部品)**

38CC1-8822239-1 ⚠1

■ PHN OVERALL CIRCUIT DIAGRAM (DM2000)

■ AD OVERALL CIRCUIT DIAGRAM (DM2000)

from DSP-CN951,CN953

to DSP-CN952,CN954

to BRG-CN007,CN008

INVERTER

MCLK:128FS at 96KHz
256FS at 48KHz

DFS_AD1 H : 96KHz
L : 48KHz

TRANSCEIVER

TRANSCEIVER

ADC

OP AMP

IN1 to ANI-CN100

IN2 to ANI-CN100

IN3 to ANI-CN100

IN4 to ANI-CN100

IN5 to ANI-CN100

IN6 to ANI-CN100

IN7 to ANI-CN100

IN8 to ANI-CN100

IN9 to ANI-CN100

IN10 to ANI-CN100

IN11 to ANI-CN100

IN12 to ANI-CN100

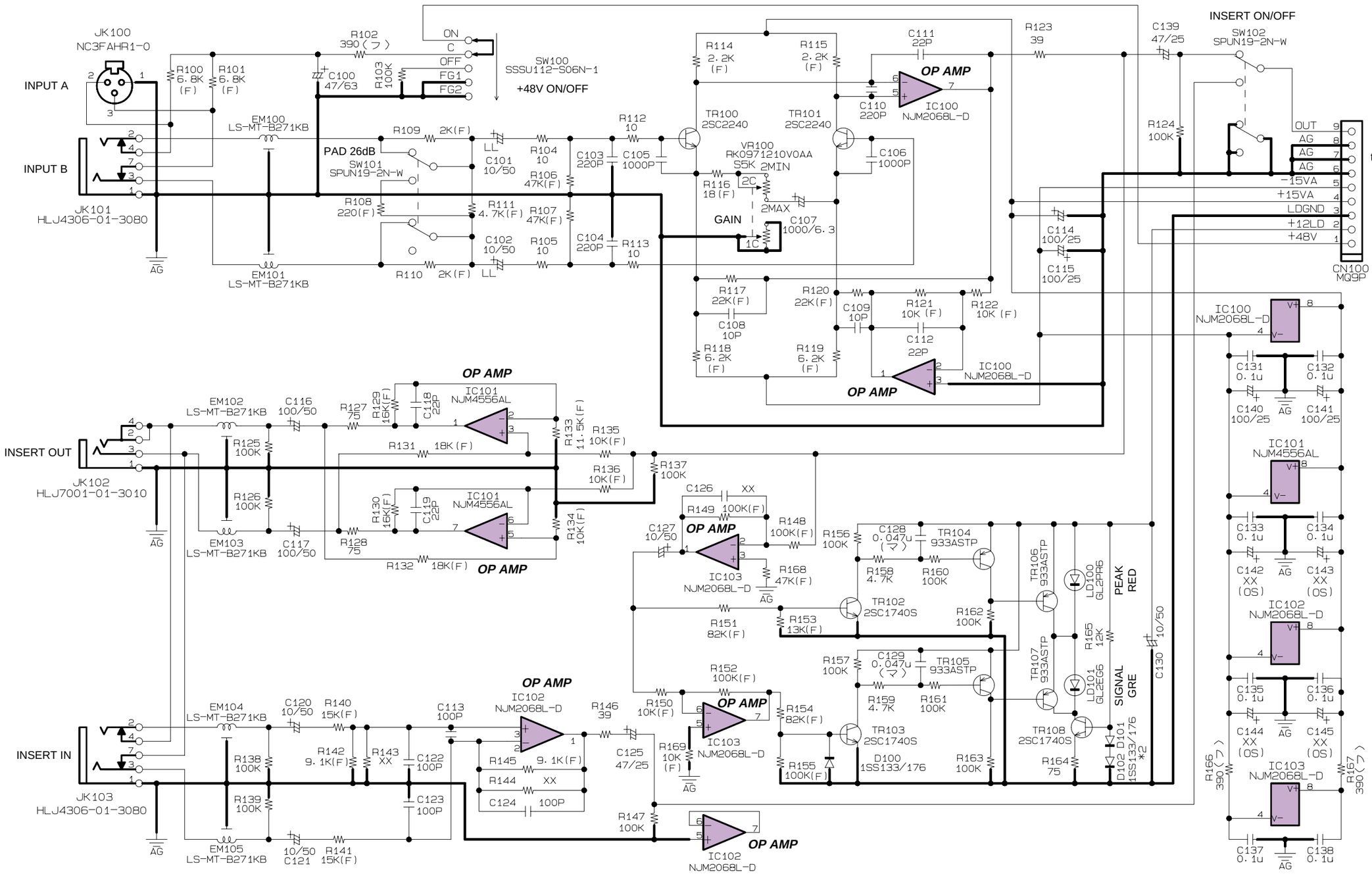
(F) : **Metal Film Resistor** (金属被膜抵抗)
(マ) : **Mylar Capacitor** (マイラーコンデンサー)
(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor** (有機半導体アルミ電解コンデンサー)
XX : **not installed** (未実装部品)

38CC1-8822218-1 △2

■ AD OVERALL CIRCUIT DIAGRAM (DM2000)

■ ANI OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



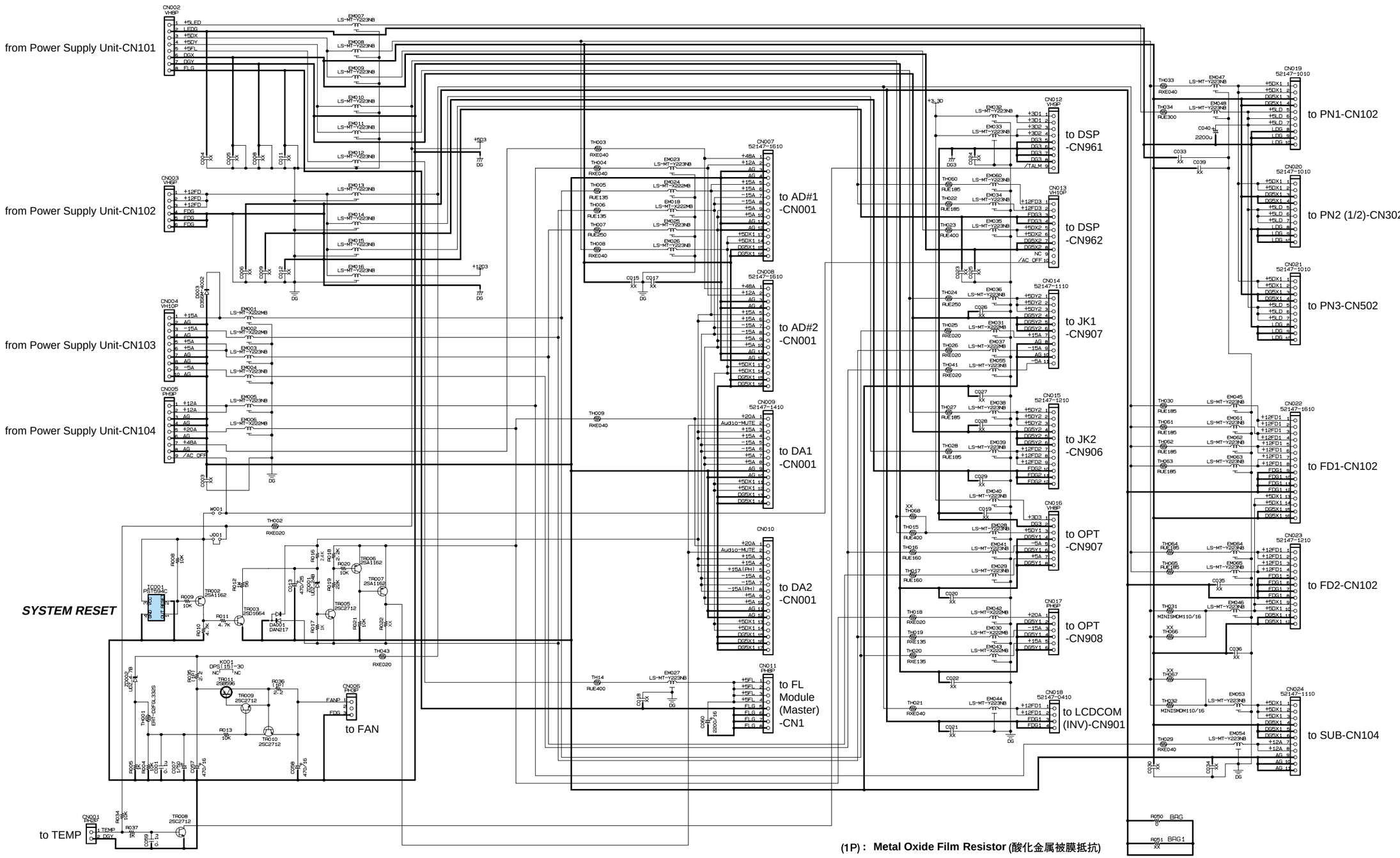
(F) : Metal Film Resistor (金属被膜抵抗)
(フ) : Flame Proof C. Resister (不燃化カーボン抵抗)
(マ) : Mylar Capacitor (マイラーコンデンサー)
XX : not installed (未実装部品)

38CC1-8822233-1 ⚠2

■ ANI OVERALL CIRCUIT DIAGRAM (DM2000)

■ BRG OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



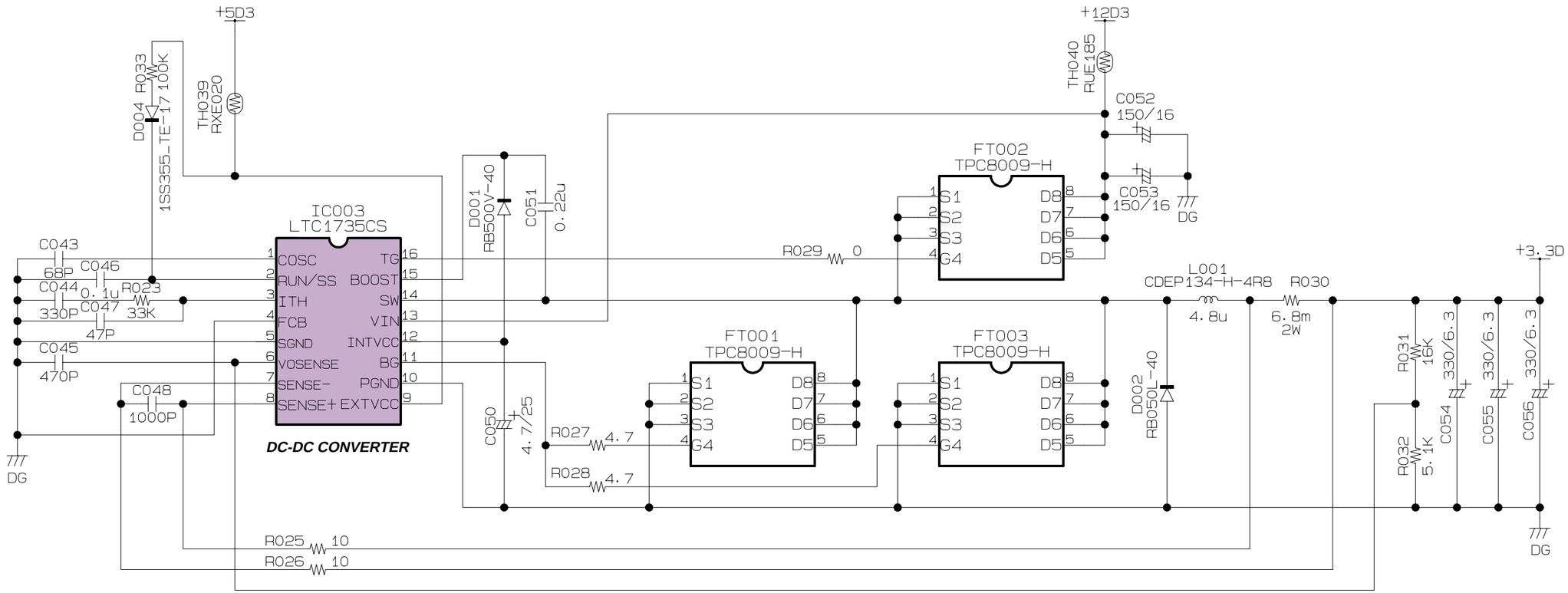
(1P) : **Metal Oxide Film Resistor** (酸化金属被膜抵抗)
XX : **not installed** (実装しない)

38CC1-8822231-2 ⚠4

■ BRG OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ BRG OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



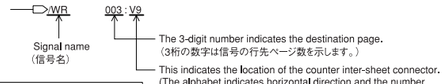
38CC1-8822231-3 ⚠2

■ BRG OVERALL CIRCUIT DIAGRAM 003 (DM2000)

■ CPU OVERALL CIRCUIT DIAGRAM 002 (DM2000)

Notation for Circuit Diagrams（回路図表記上の注意）

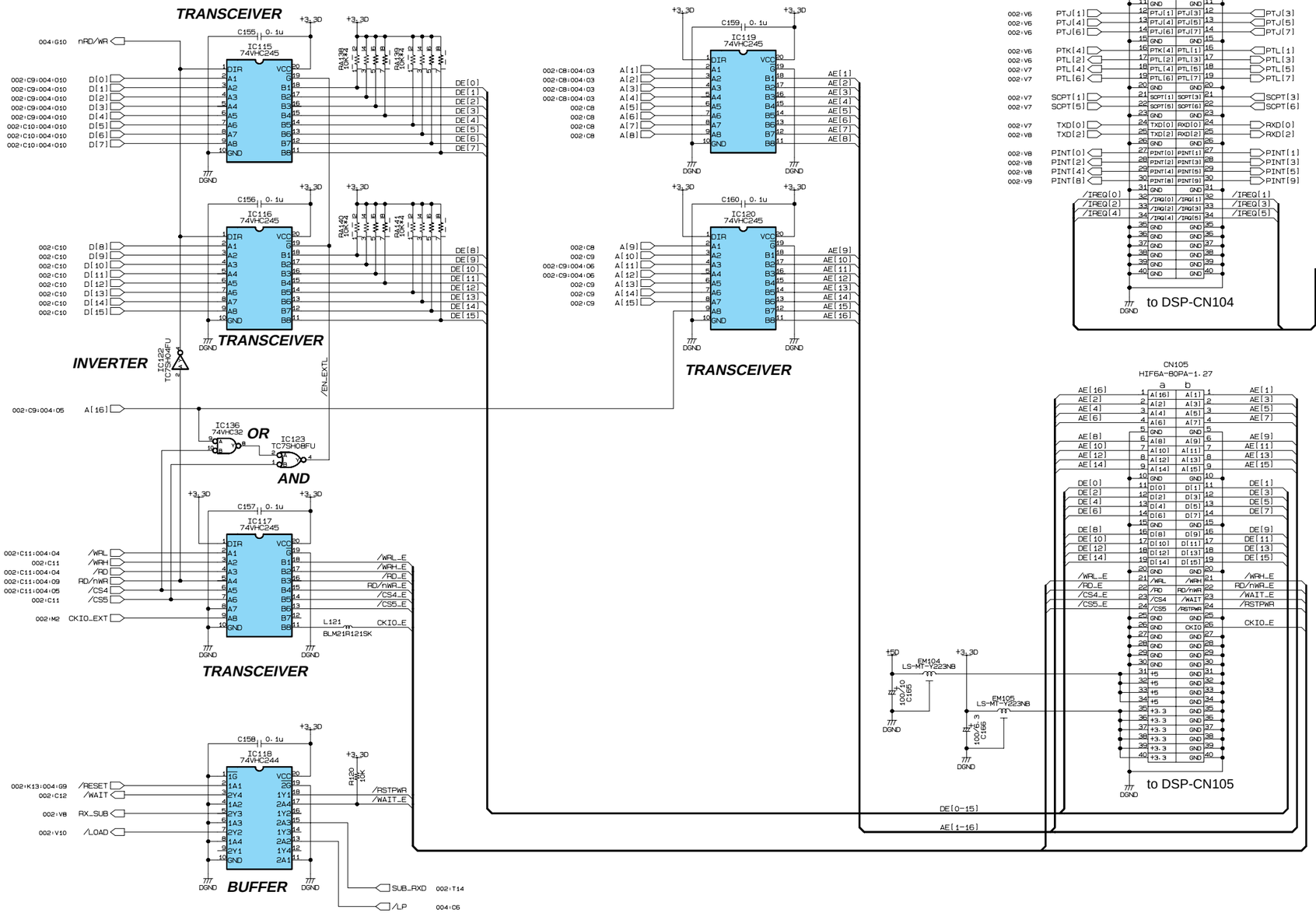
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ CPU OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ CPU OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



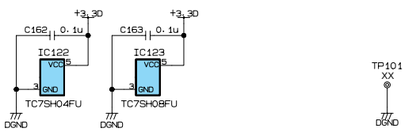
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

XX : not installed (実装しない)



38CC1-8822240-3 ⚠3

■ CPU OVERALL CIRCUIT DIAGRAM 003 (DM2000)

■ CPU OVERALL CIRCUIT DIAGRAM 004 (DM2000)

Notation for Circuit Diagrams（回路図表記上の注意）

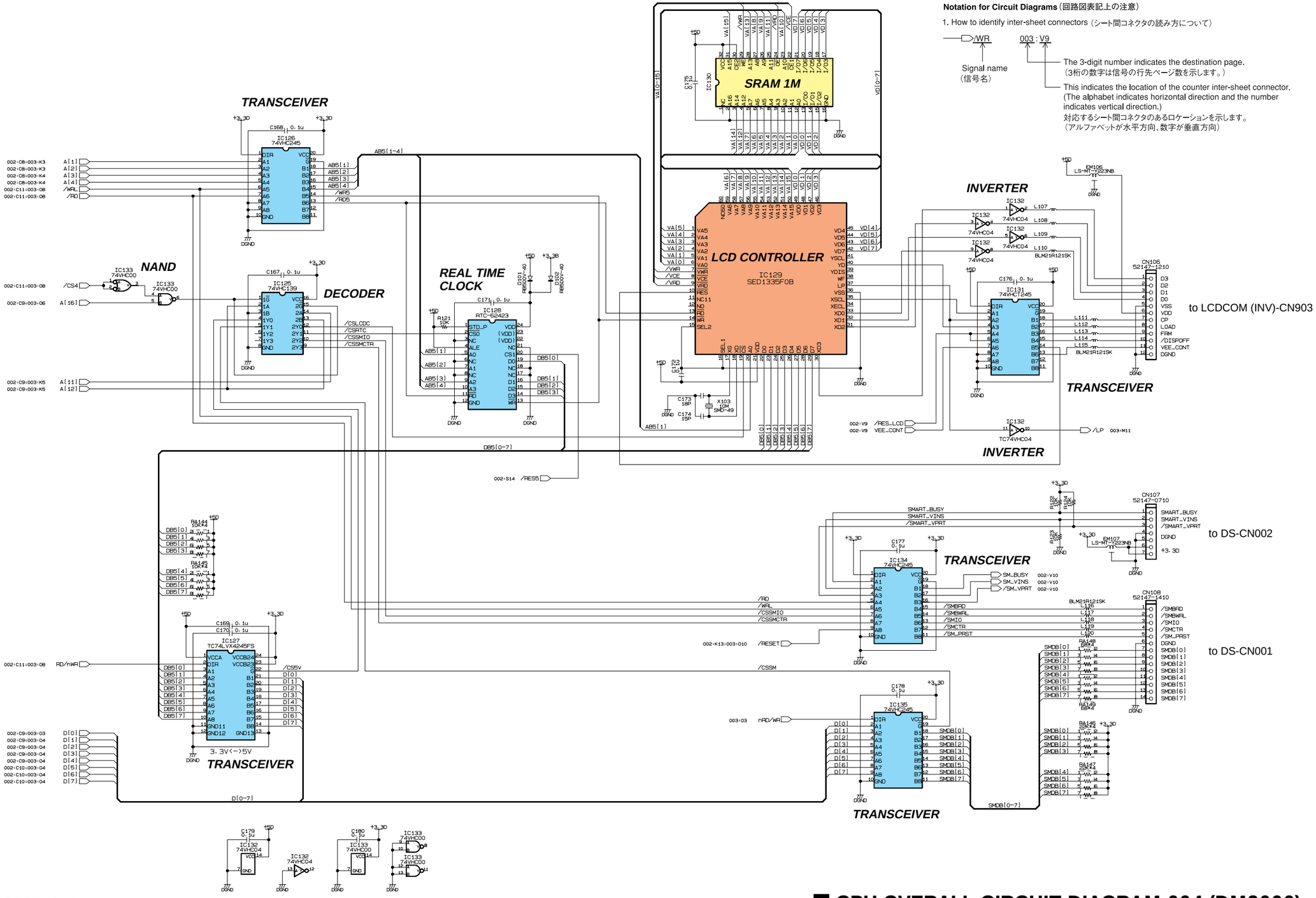
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR　003 : V9

Signal name（信号名）

The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）

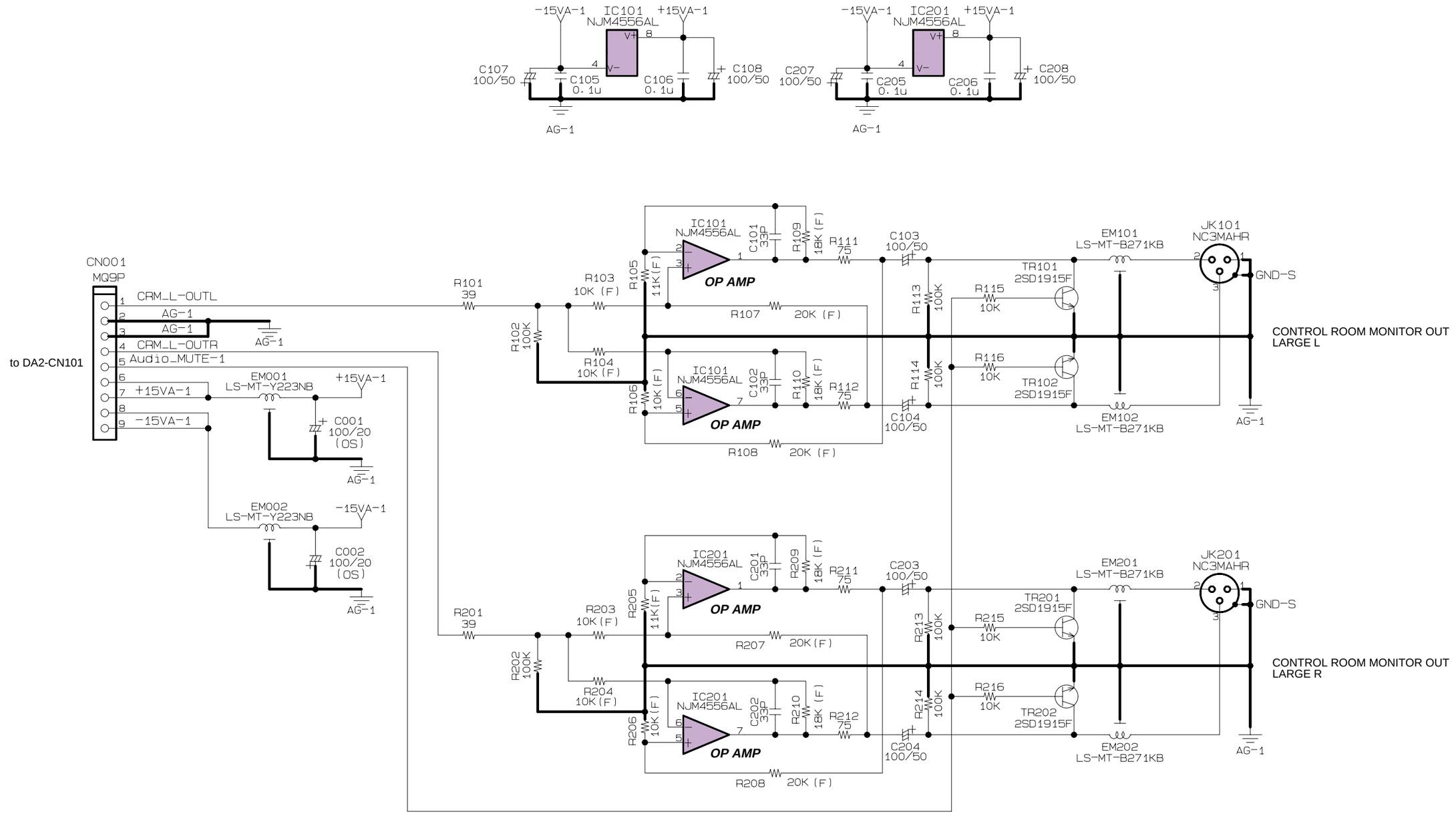
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）



■ CPU OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ LRG OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

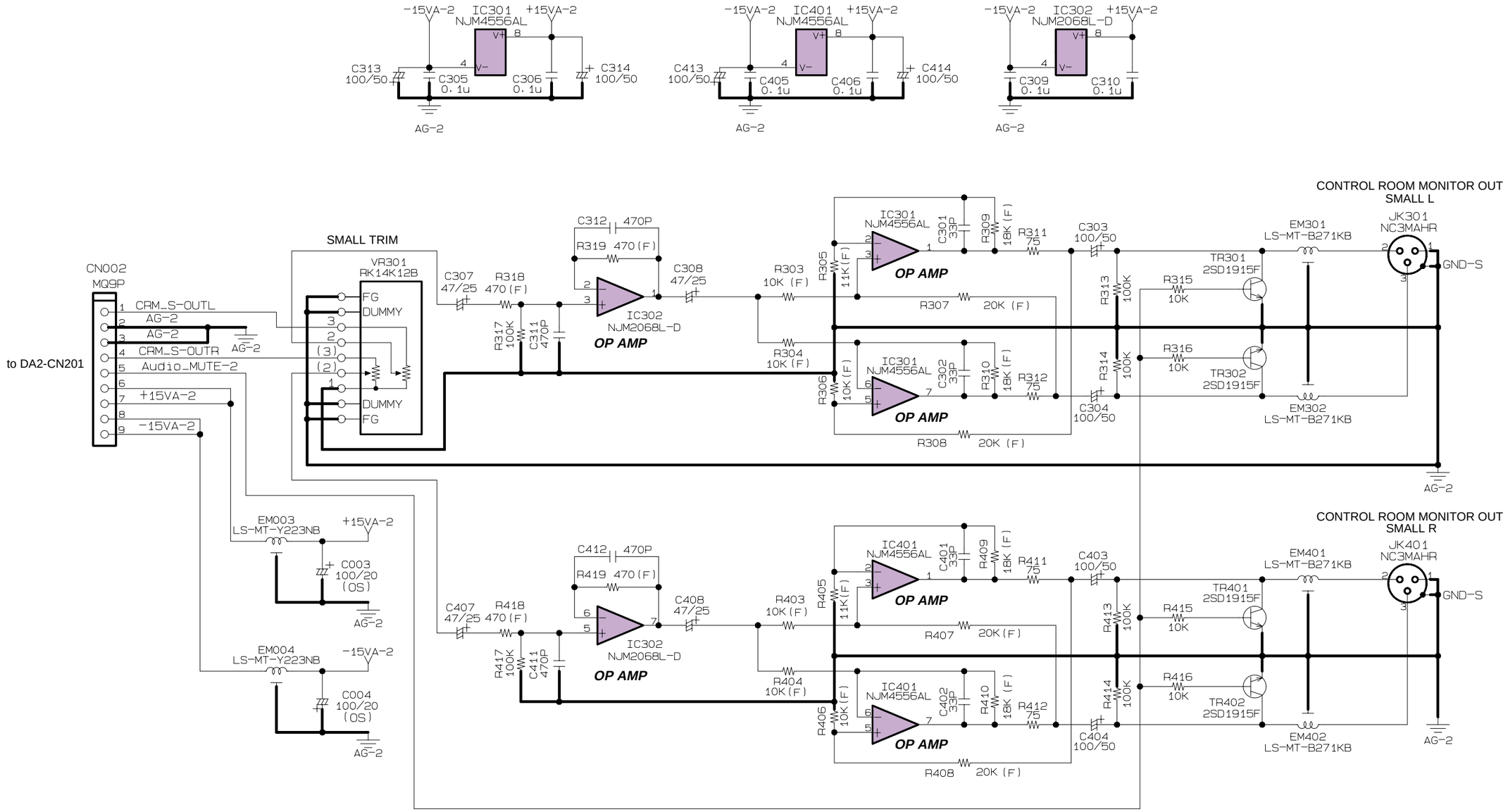


(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

■ LRG OVERALL CIRCUIT DIAGRAM (DM2000)

■ SML OVERALL CIRCUIT DIAGRAM (DM2000)

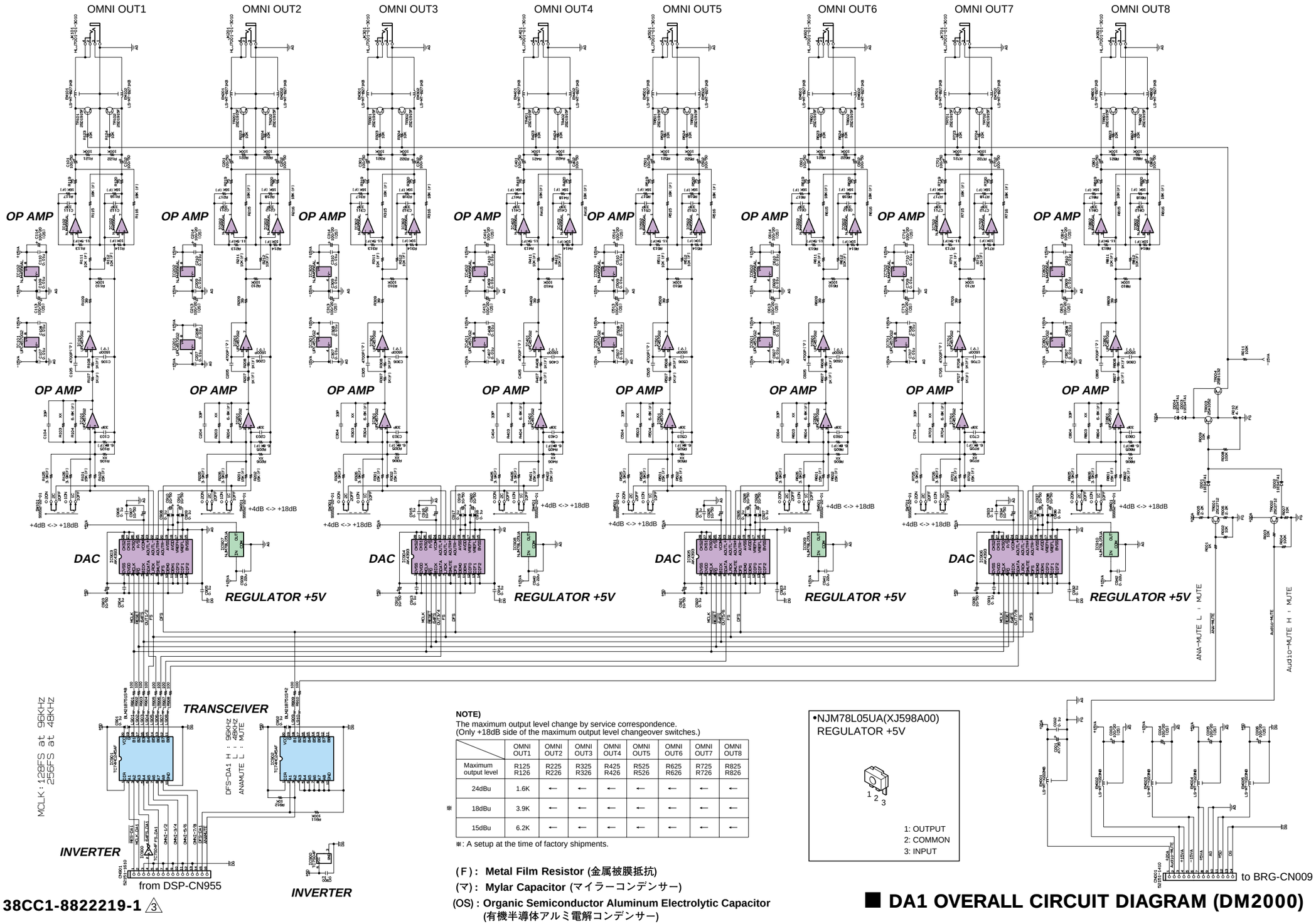


(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

■ DA1 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



NOTE)
The maximum output level change by service correspondence.
(Only +18dB side of the maximum output level changeover switches.)

	OMNI OUT1	OMNI OUT2	OMNI OUT3	OMNI OUT4	OMNI OUT5	OMNI OUT6	OMNI OUT7	OMNI OUT8
Maximum output level	R125 R126	R225 R226	R325 R326	R425 R426	R525 R526	R625 R626	R725 R726	R825 R826
24dBu	1.6K	←	←	←	←	←	←	←
※ 18dBu	3.9K	←	←	←	←	←	←	←
15dBu	6.2K	←	←	←	←	←	←	←

※: A setup at the time of factory shipments.

(F) : **Metal Film Resistor** (金属被膜抵抗)
(マ) : **Mylar Capacitor** (マイラーコンデンサー)
(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor** (有機半導体アルミ電解コンデンサー)
XX : **not installed** (未実装部品)

•NJM78L05UA(XJ598A00)
REGULATOR +5V

1: OUTPUT
2: COMMON
3: INPUT

38CC1-8822219-1 3

■ DA1 OVERALL CIRCUIT DIAGRAM (DM2000)

■ DA2 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

to LRG-CN001 (CONTROL ROOM MONITOR OUT) (LARGE)

to SML-CN002 (SMALL)

to ST-CN001 (STEREO OUT)

to STD-CN002 (STUDIO MONITOR OUT)

to PHN-CN201 (PHONES OUT)

(TALKBACK IN)

to 2TRI-CN101

(2TR IN ANALOG 1)

(2TR IN ANALOG 2)

OP AMP

to PN3 -CN505

REGULATOR +5V

DAC

INVERTER

TRANSCEIVER

ADC

MCLK:128FS at 96KHz
256FS at 48KHz

DFS_DA2 H : 96KHz
L : 48KHz

SEL_L/S H : SMALL
L : LARGE

ANA-MUTE L : MUTE

Audio-MUTE H : MUTE

from DSP-CN956

from DSP-CN957

to BRG-CN010

- NJM78L05UA(XJ598A00) REGULATOR +5V

1: OUTPUT
2: COMMON
3: INPUT

- D1F60 (VS201100) DIODE

1: ANODE
2: CATHODE

NOTE)
The maximum output level change by service correspondence.

	MONITOR OUT L	MONITOR OUT R	STEREO OUT L ※2	STEREO OUT R ※2	STUDIO MONITOR OUT L	STUDIO MONITOR OUT R	PHONES OUT L	PHONES OUT R	STD Circuit Board STEREO OUT L ※2	STD Circuit Board STEREO OUT R ※2
Maximum output level	R101 R102	R201 R202	R301 R302	R401 R402	R501 R502	R601 R602	R701 R702	R801 R802	STD Circuit Board R501	STD Circuit Board R502
24dBu	1.6K	←	←	←	←	←	←	←	3.9K	←
※1 18dBu	3.3K	←	←	←	←	←	←	←	1.5K	←
15dBu	4.7K	←	←	←	←	←	←	←	750	←

※1: A setup at the time of factory shipments.
※2: Also change the value of R501 and R502 of STD circuit board at the time of output level change of STEREO OUT.

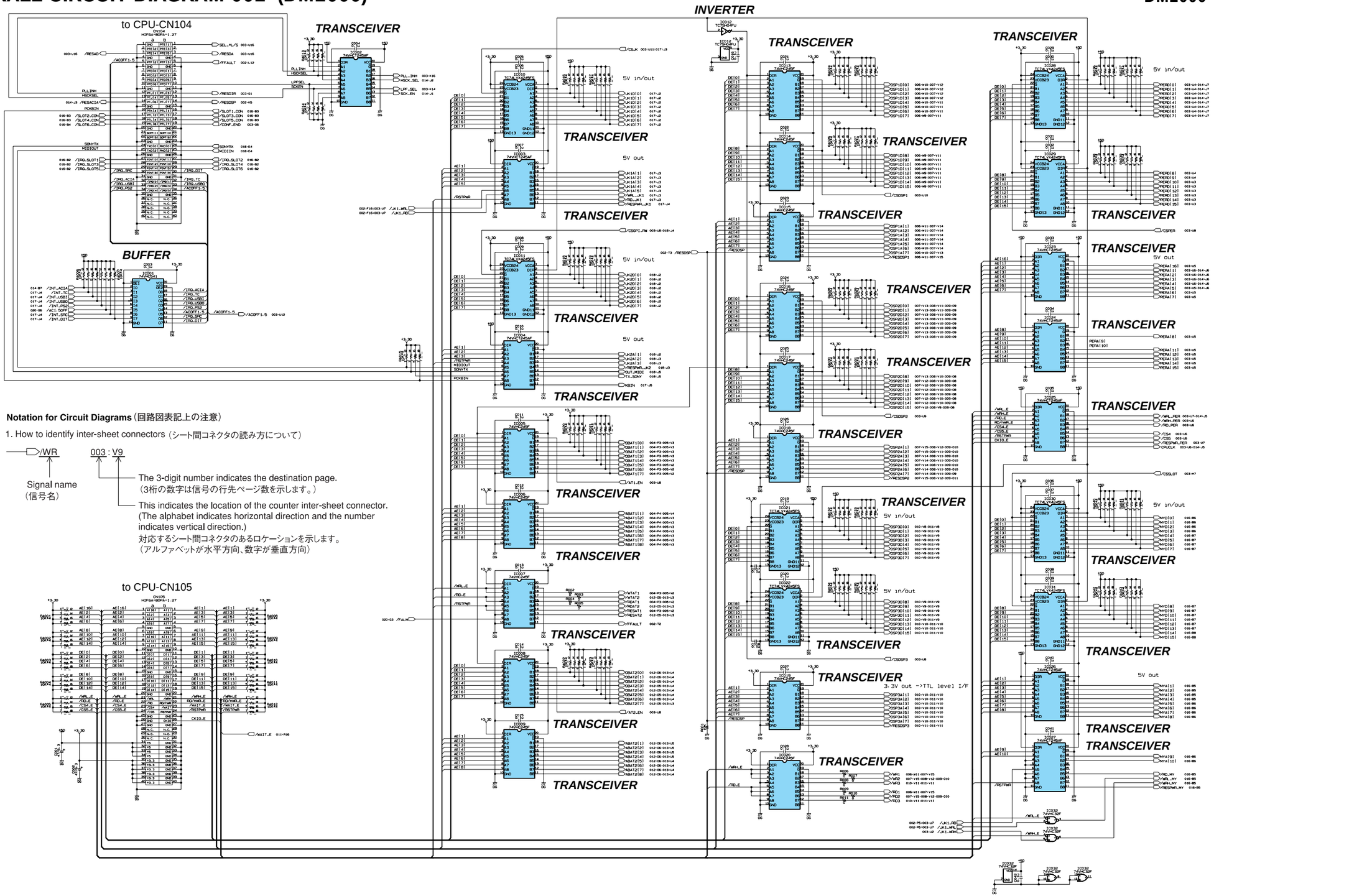
(F): **Metal Film Resistor** (金属被膜抵抗)
(マ): **Mylar Capacitor** (マイラーコンデンサー)
(OS): **Organic Semiconductor Aluminum Electrolytic Capacitor** (有機半導体アルミ電解コンデンサー)
XX: **not installed** (未実装部品)

38CC1-8822220-1

■ DA2 OVERALL CIRCUIT DIAGRAM (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — 003 : V9

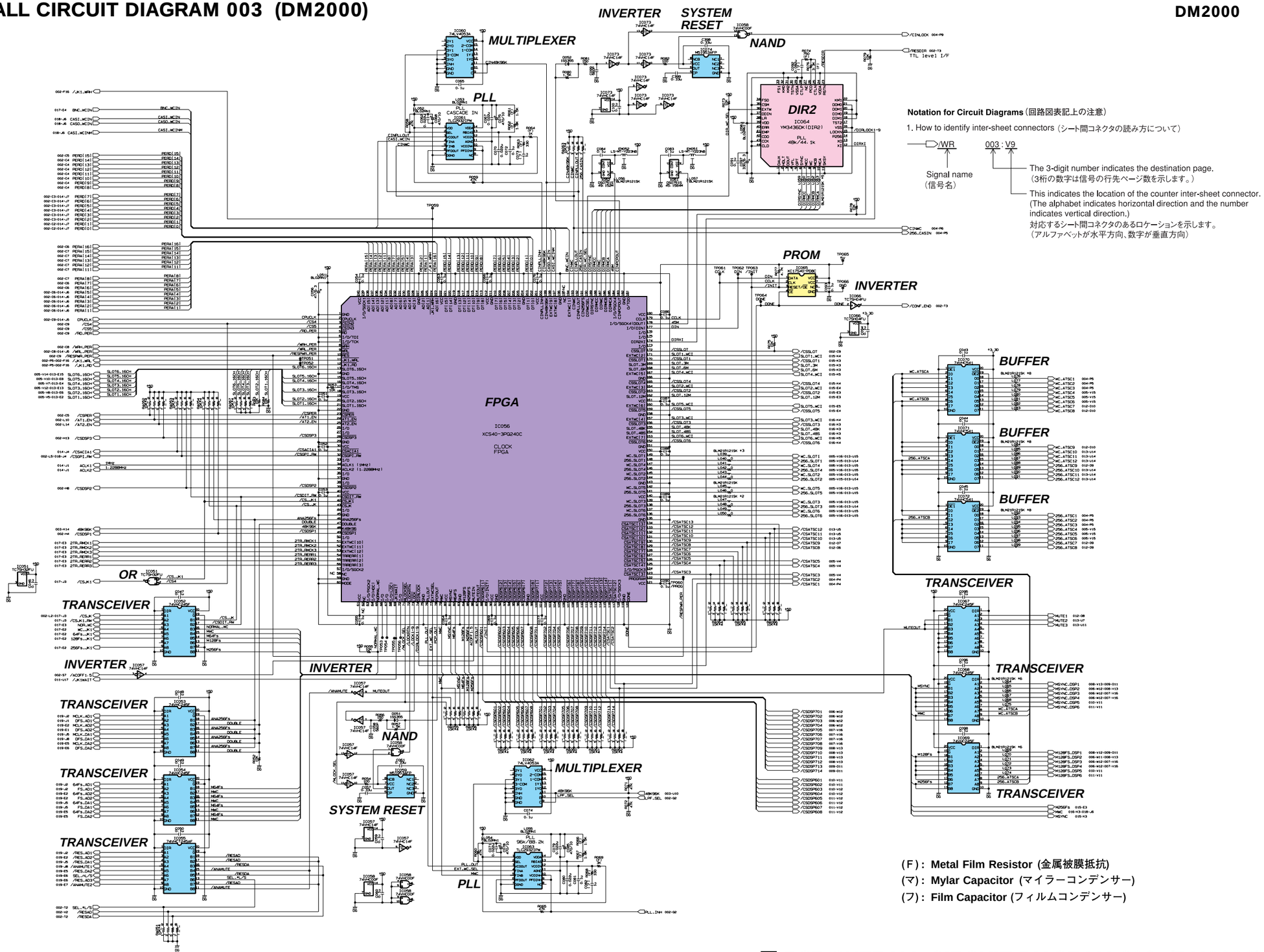
Signal name（信号名）

The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ DSP OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 003 (DM2000)



(F) : **Metal Film Resistor** (金属被膜抵抗)
(マ) : **Mylar Capacitor** (マイラーコンデンサー)
(フ) : **Film Capacitor** (フィルムコンデンサー)

■ DSP OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000

Notation for Circuit Diagrams（回路図表記上の注意）

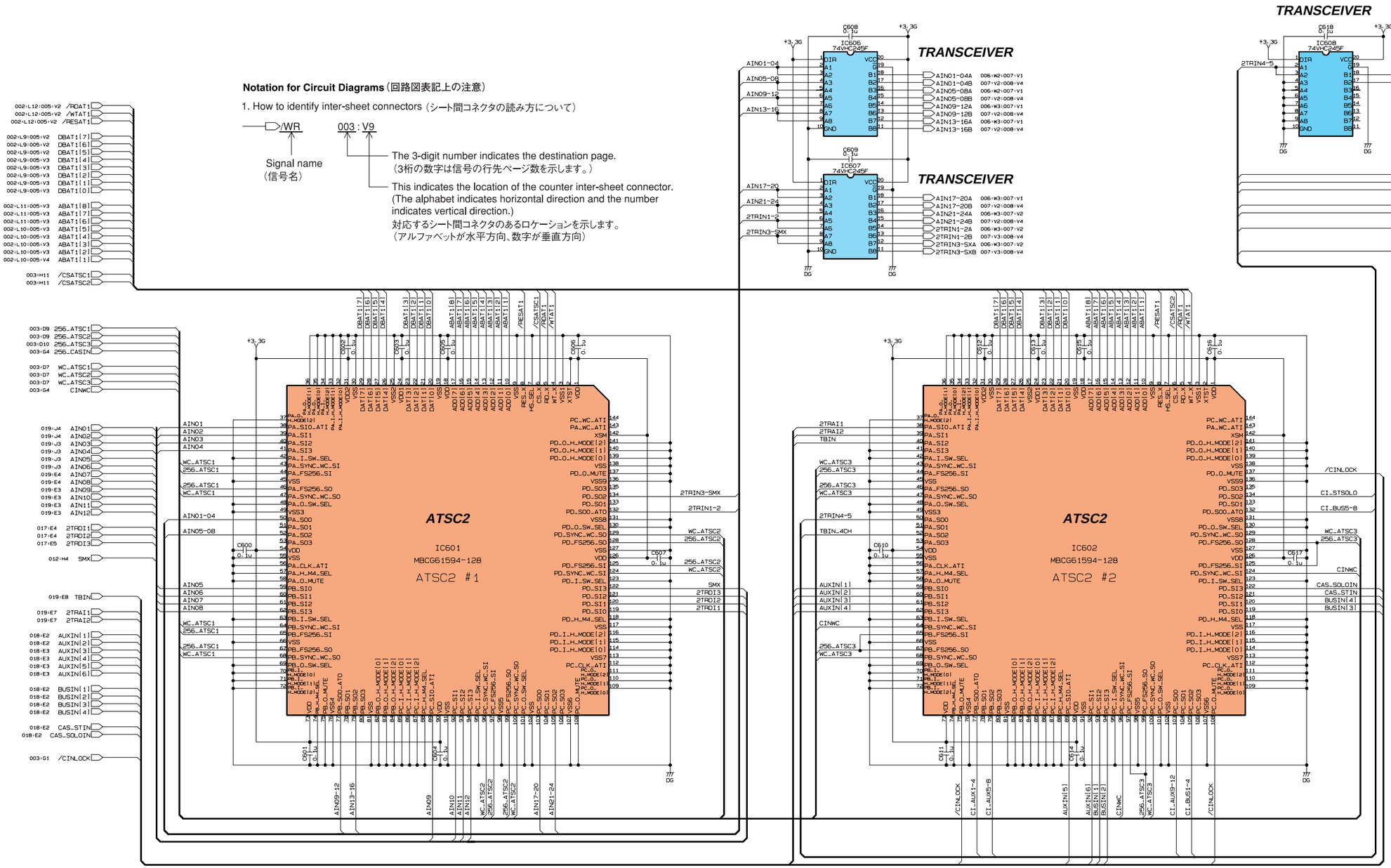
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR　003 : V9

Signal name
（信号名）

The 3-digit number indicates the destination page.
（3桁の数字は信号の行先ページ数を示します。）

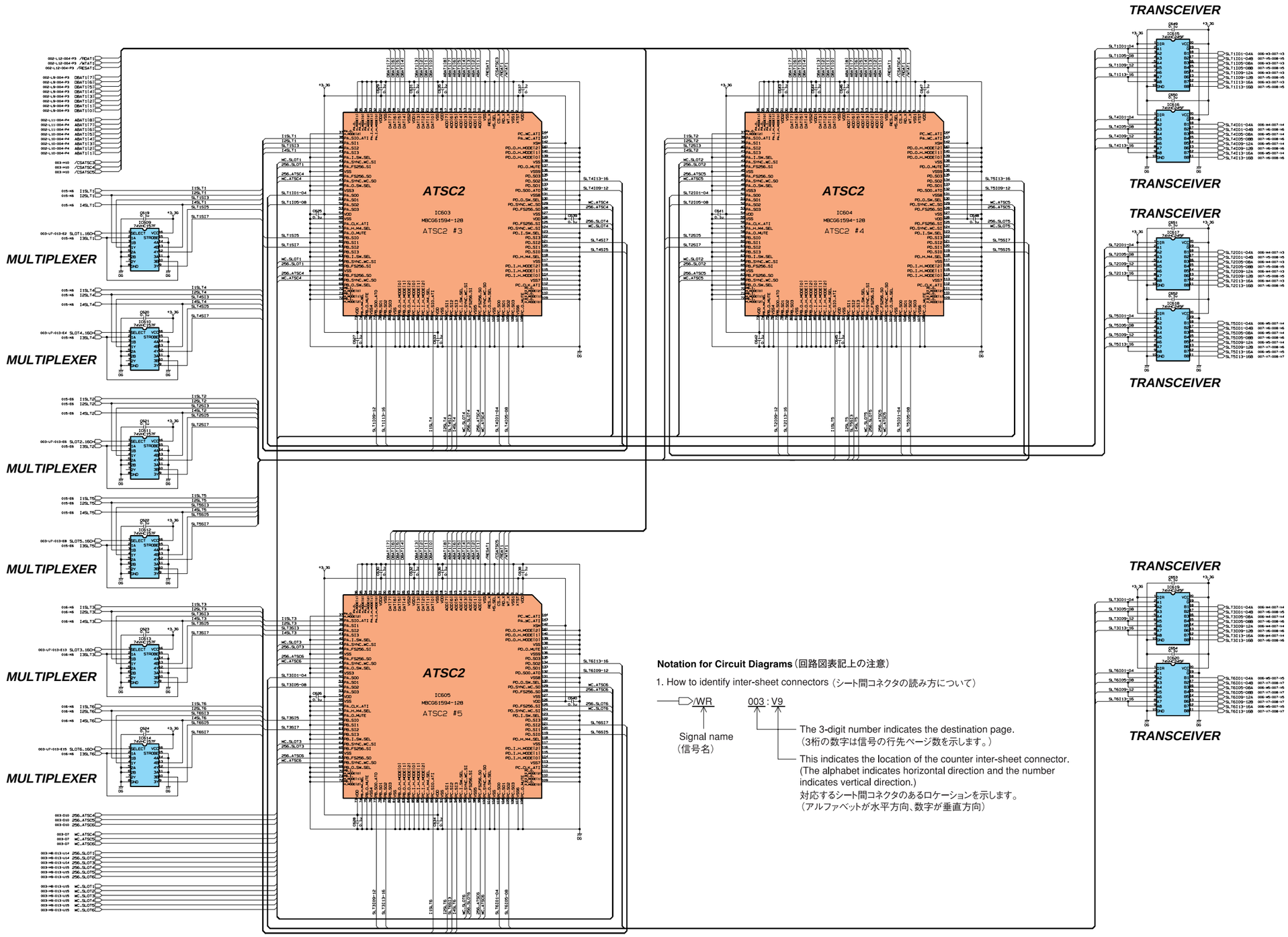
This indicates the location of the counter inter-sheet connector.
(The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
（アルファベットが水平方向、数字が垂直方向）



■DSP OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

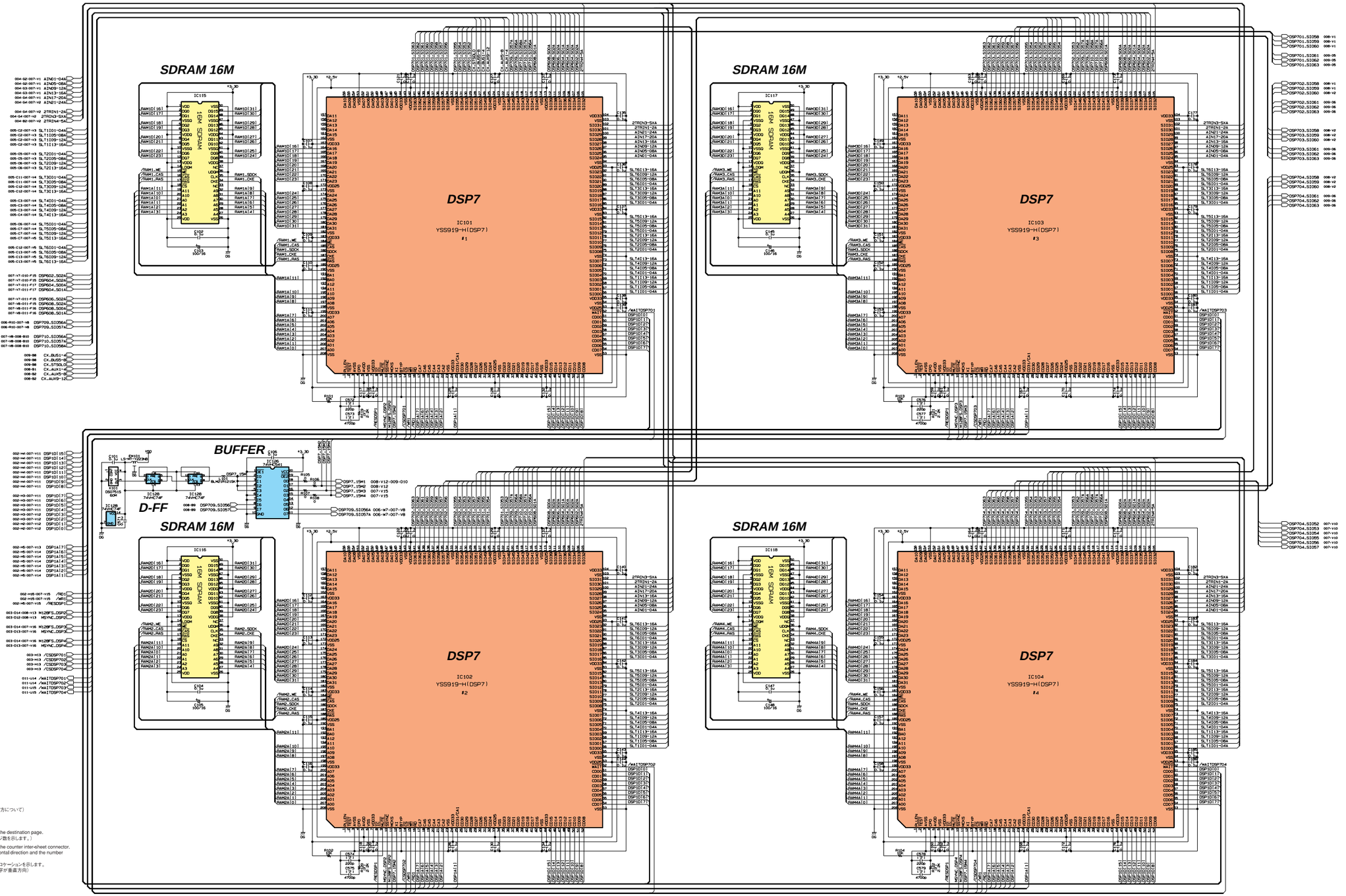
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

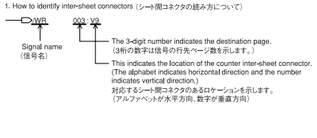
■ DSP OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

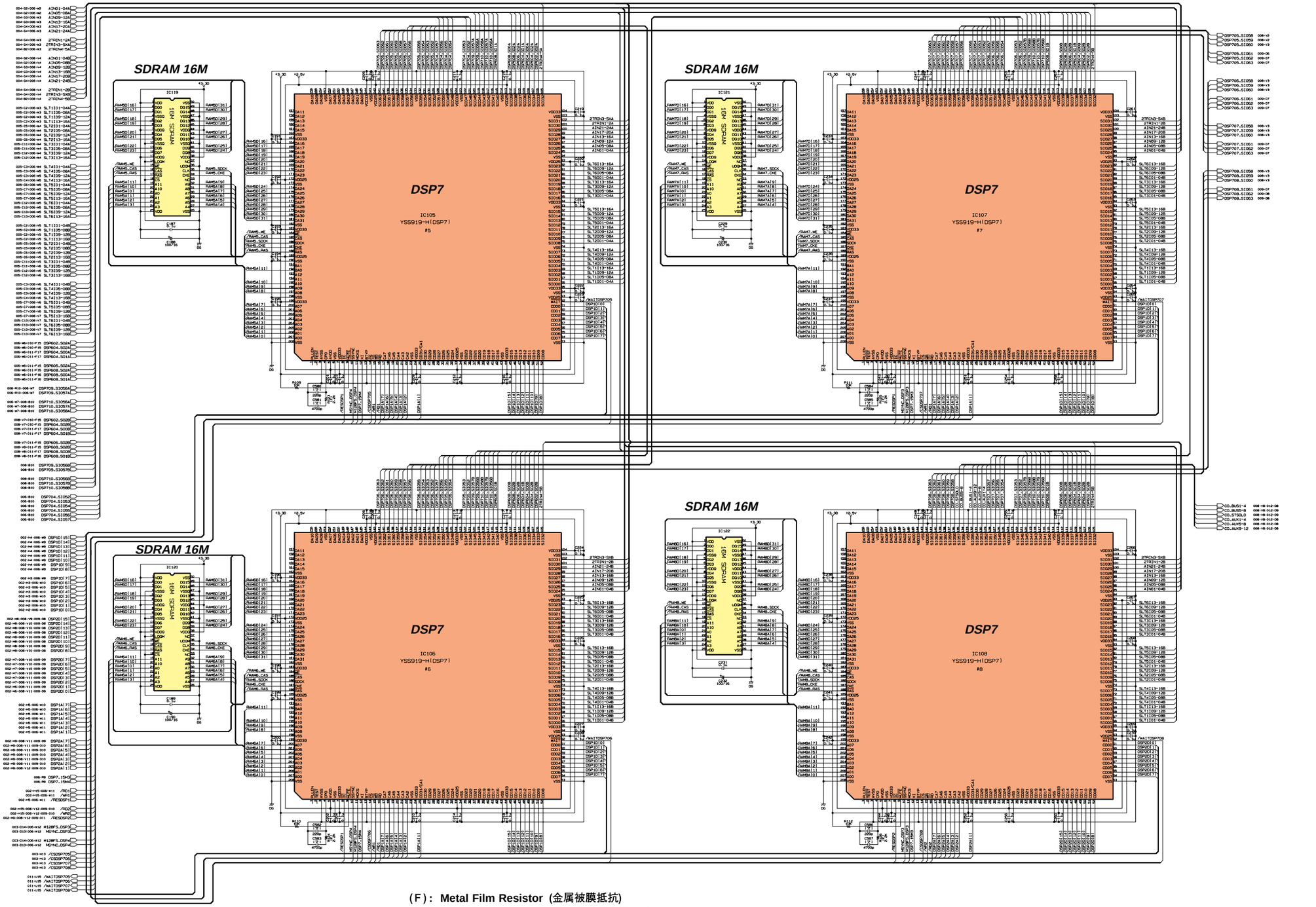


(F) : **Metal Film Resistor** (金属被膜抵抗)
(マ) : **Mylar Capacitor** (マイラーコンデンサー)

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■ DSP OVERALL CIRCUIT DIAGRAM 006 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 007 (DM2000)



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向, 数字が垂直方向)

(F) : Metal Film Resistor (金属被膜抵抗)

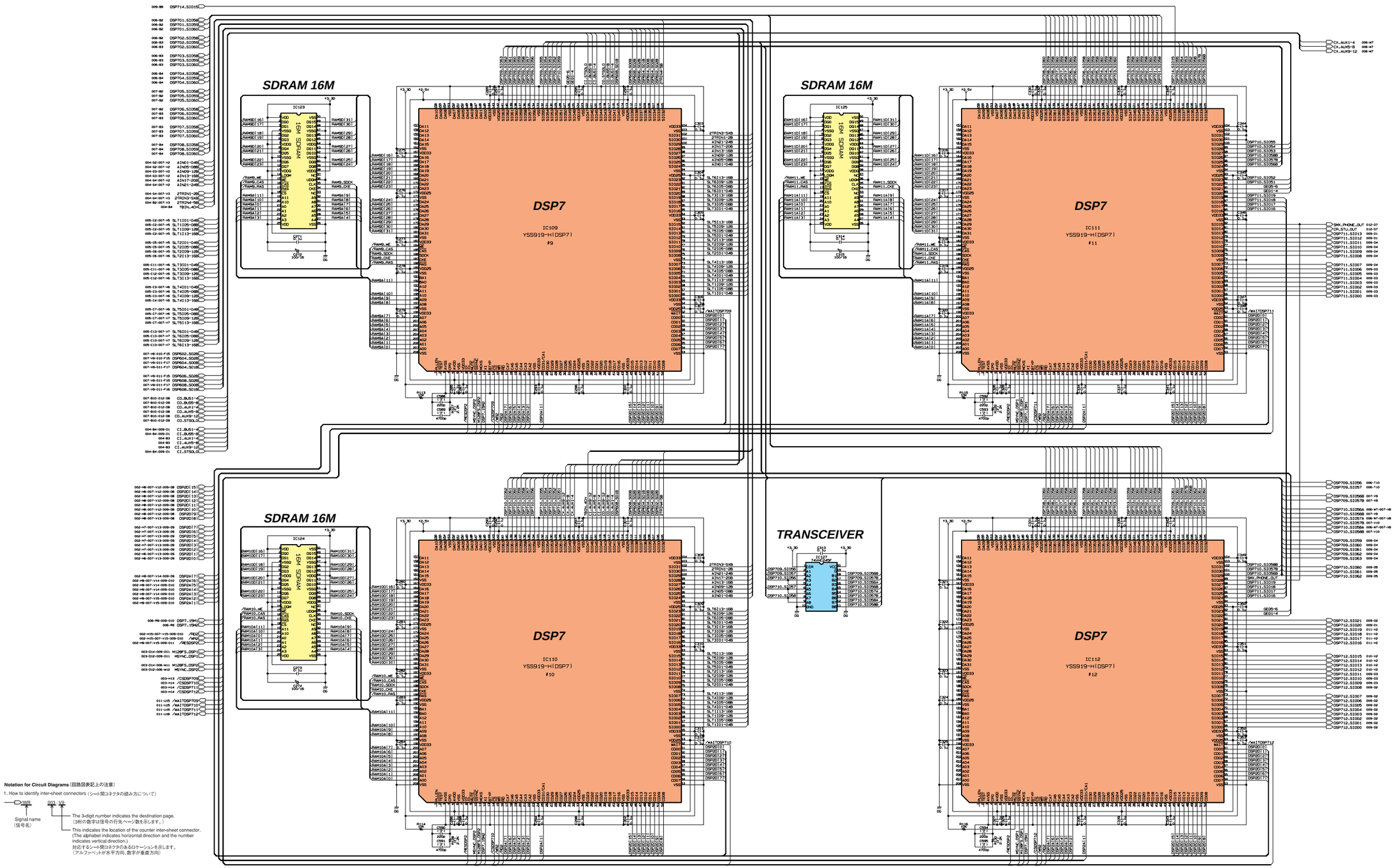
(マ) : Mylar Capacitor (マイラーコンデンサー)

38CC1-8822216-7 ⚠11

■ DSP OVERALL CIRCUIT DIAGRAM 007 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 008 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

WB — Signal name (信号名)

003 · V2

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
(アルファベットが水平方向, 数字が垂直方向)

(F): Metal Film Resistor (金属被膜抵抗)
(マ): Mylar Capacitor (マイラーコンデンサー)

38CC1-8822216-8 ⚠1

■ DSP OVERALL CIRCUIT DIAGRAM 008 (DM2000)

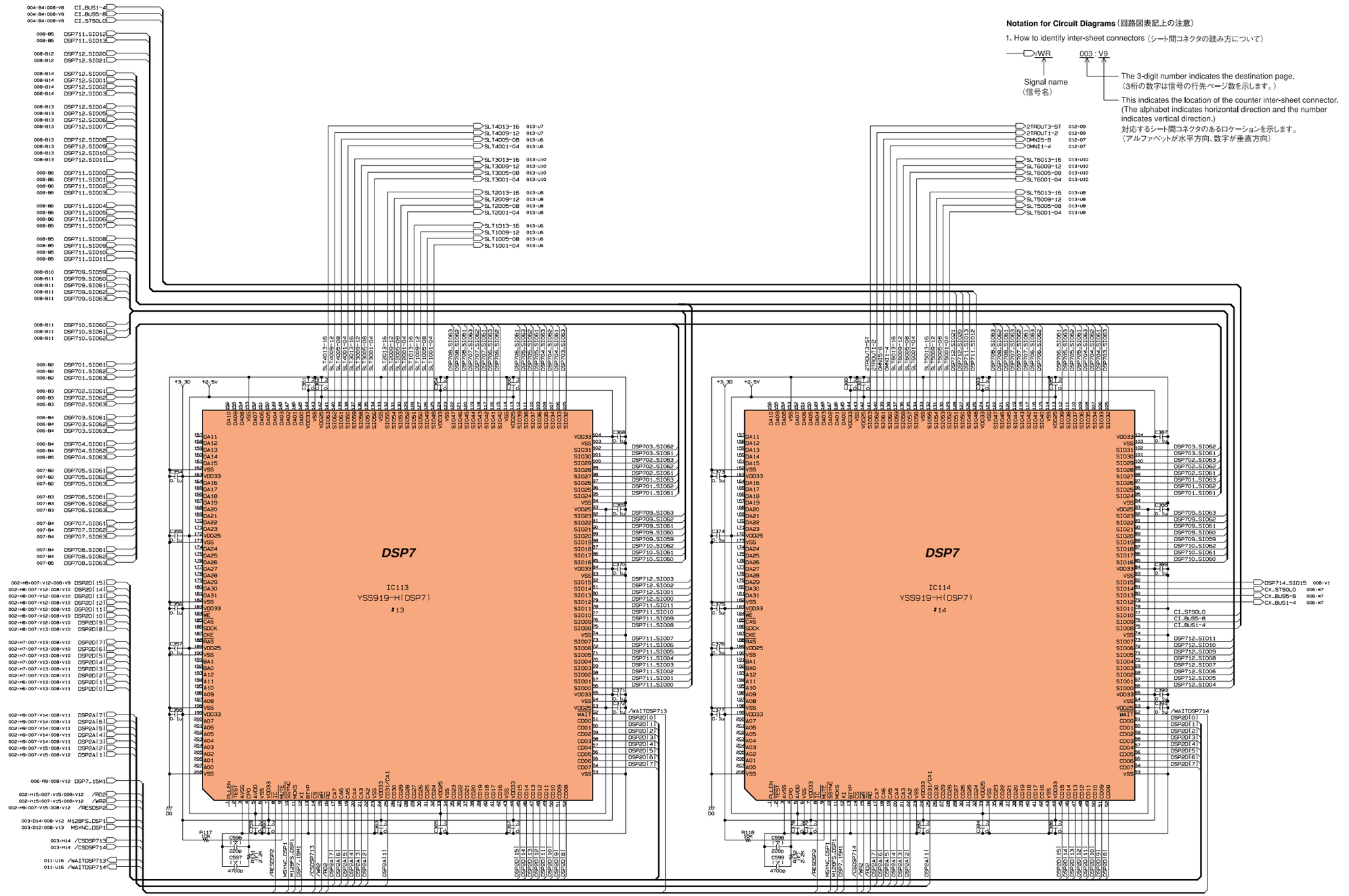
■ DSP OVERALL CIRCUIT DIAGRAM 009 (DM2000)

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

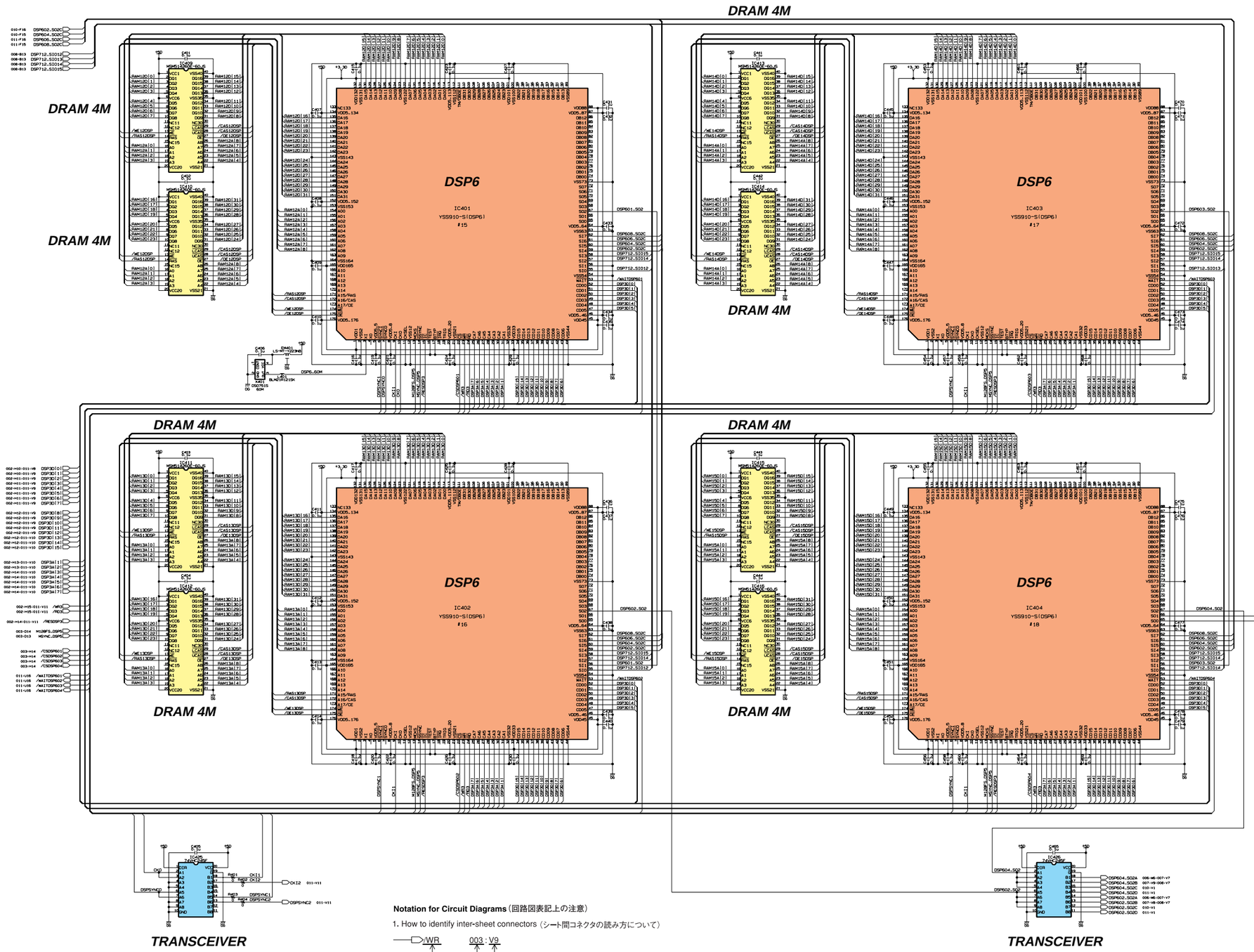
003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
  対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）



(F) : **Metal Film Resistor** (金属被膜抵抗)
(マ) : **Mylar Capacitor** (マイラーコンデンサー)

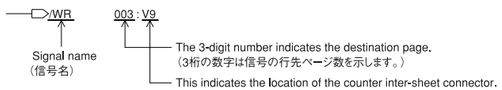
■ DSP OVERALL CIRCUIT DIAGRAM 010 (DM2000)

DM2000



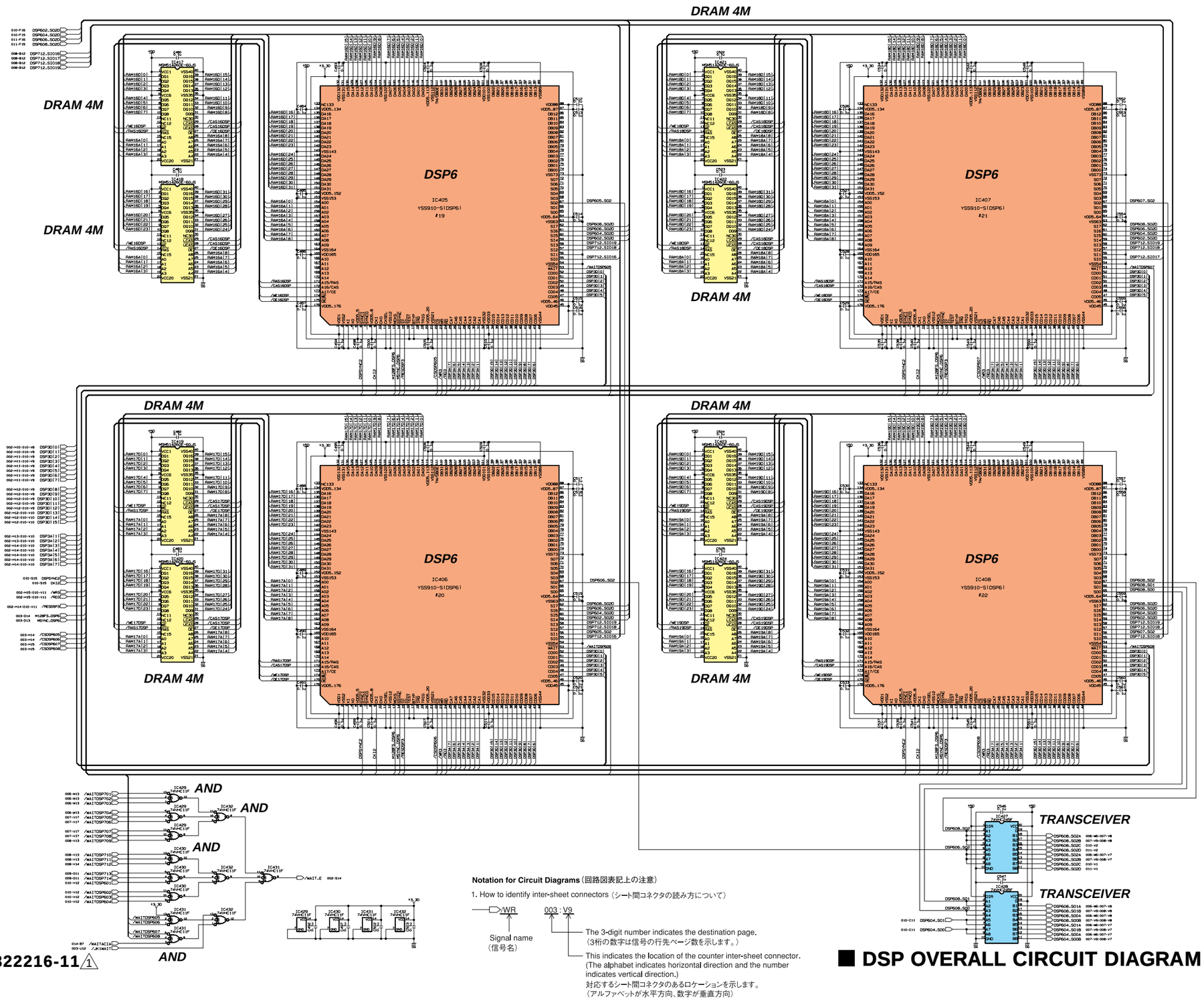
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ DSP OVERALL CIRCUIT DIAGRAM 010 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 011 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

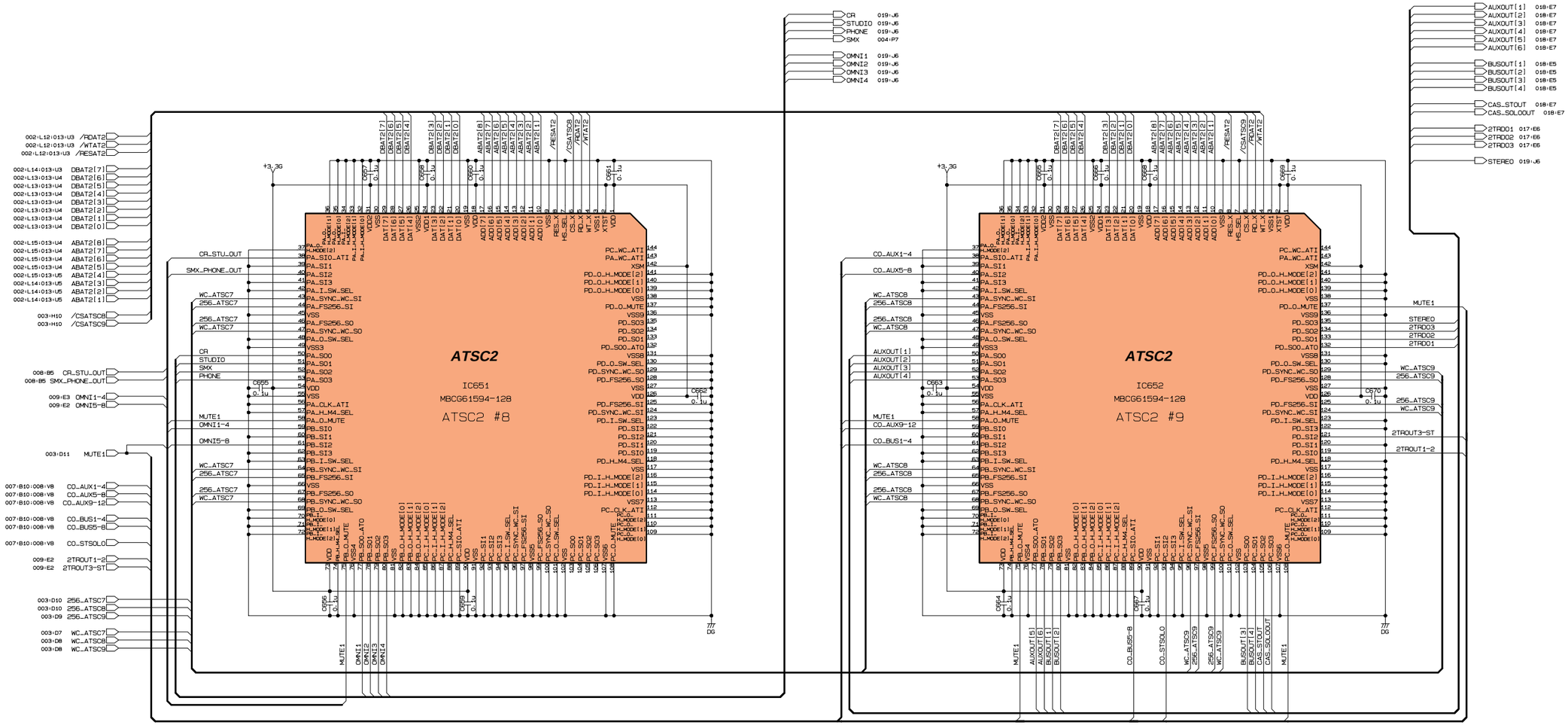
003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

38CC1-8822216-11 1

■ DSP OVERALL CIRCUIT DIAGRAM 011 (DM2000)

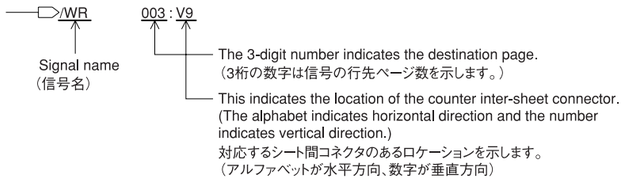
■ DSP OVERALL CIRCUIT DIAGRAM 012 (DM2000)

DM2000

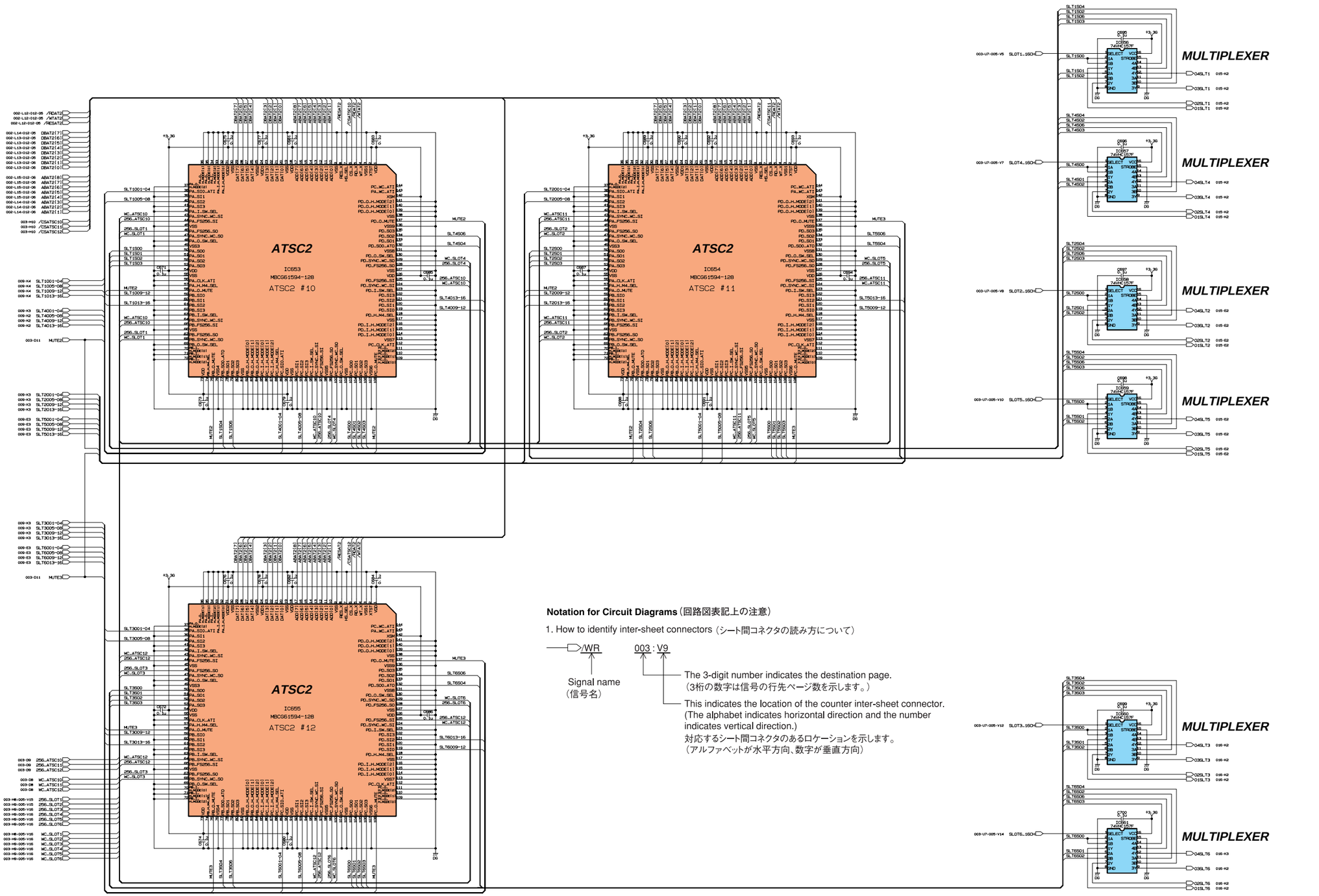


Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ DSP OVERALL CIRCUIT DIAGRAM 013 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

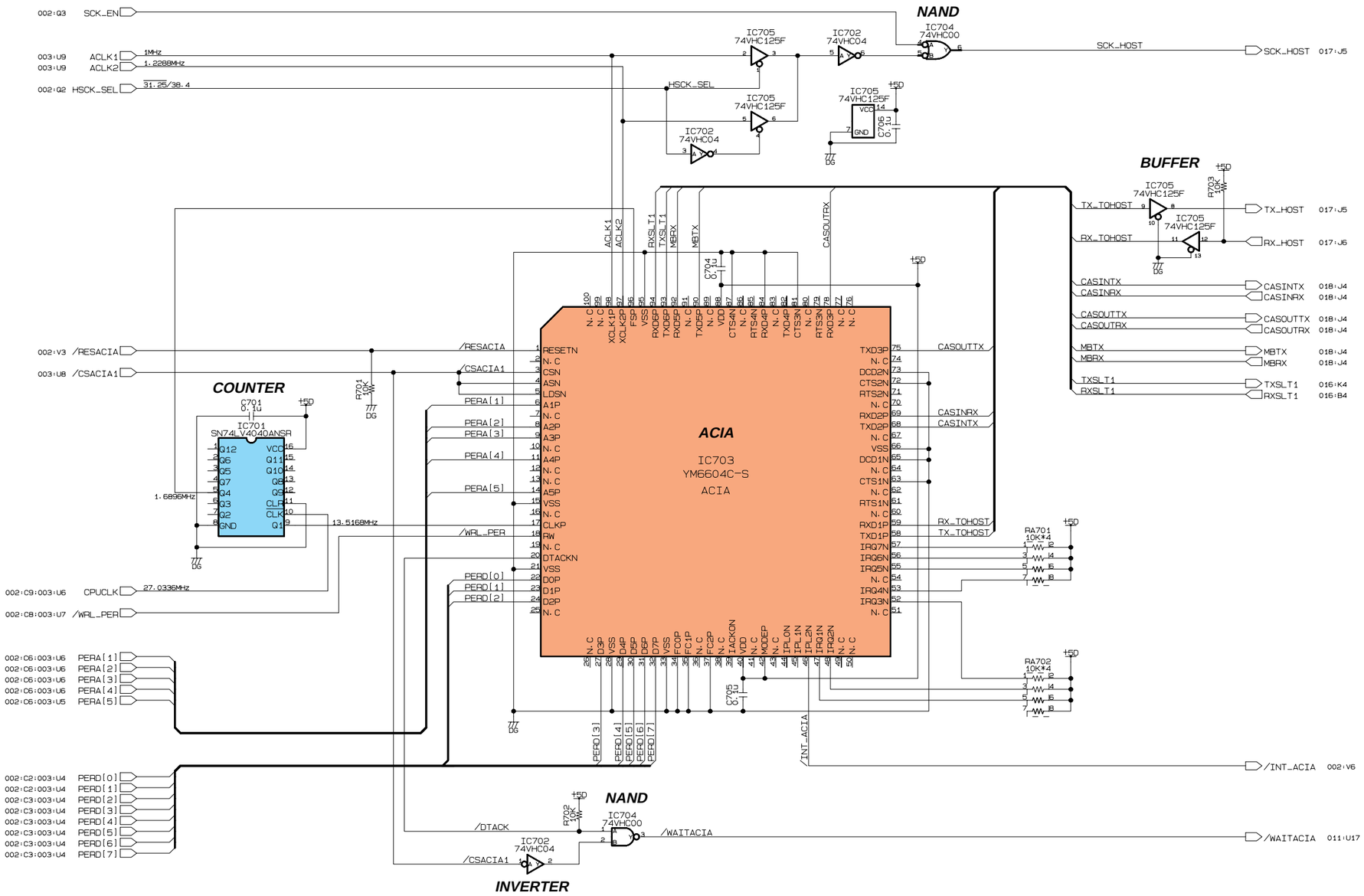
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

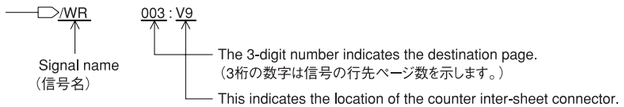
■ DSP OVERALL CIRCUIT DIAGRAM 014 (DM2000)

DM2000



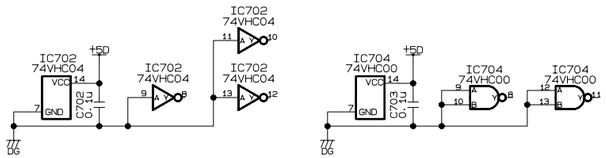
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



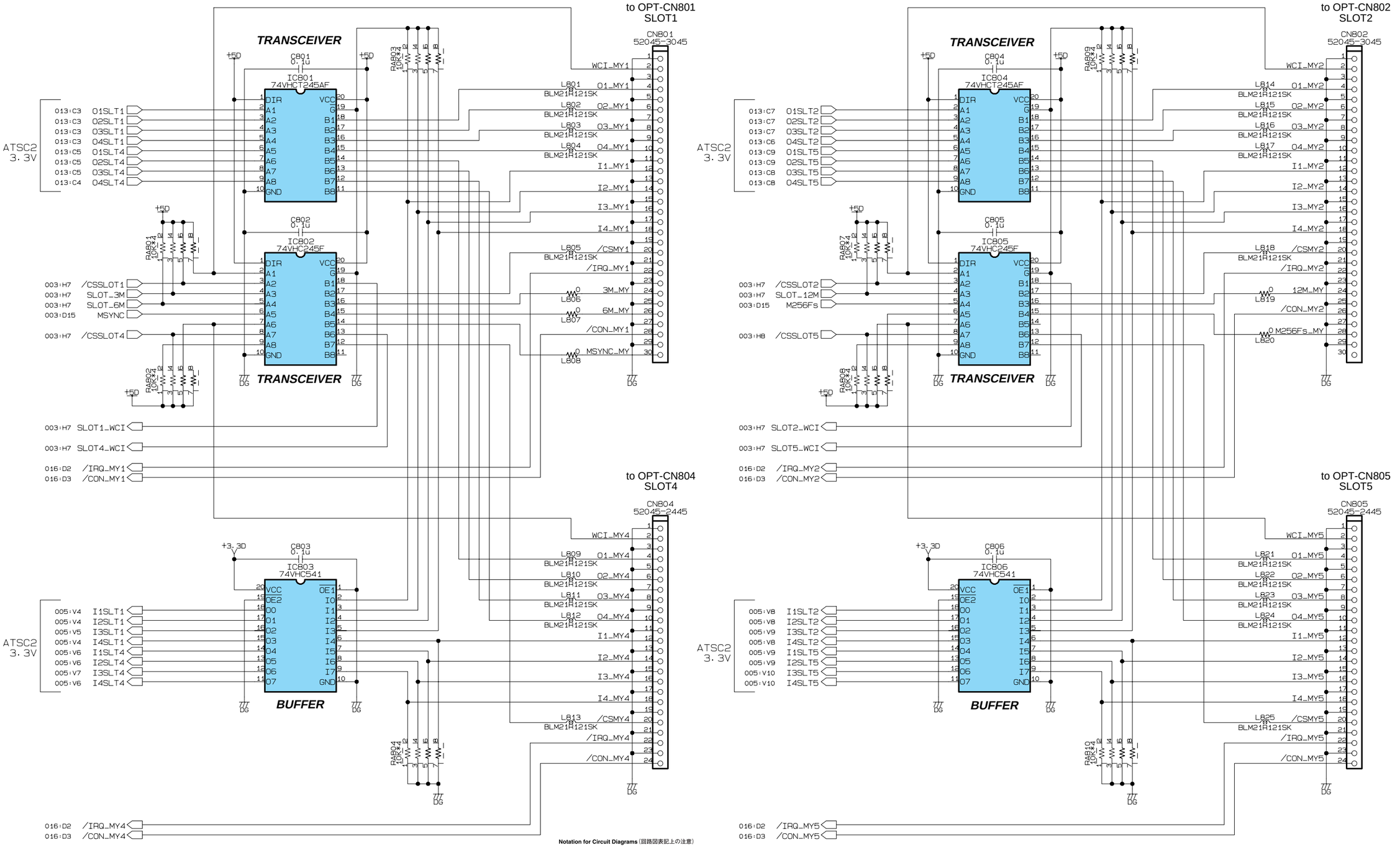
The 3-digit number indicates the destination page.
（3桁の数字は信号の行先ページ数を示します。）

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
（アルファベットが水平方向、数字が垂直方向）



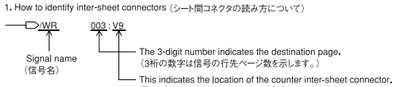
■DSP OVERALL CIRCUIT DIAGRAM 014 (DM2000)

■ DSP OVERALL CIRCUIT DIAGRAM 015 (DM2000)



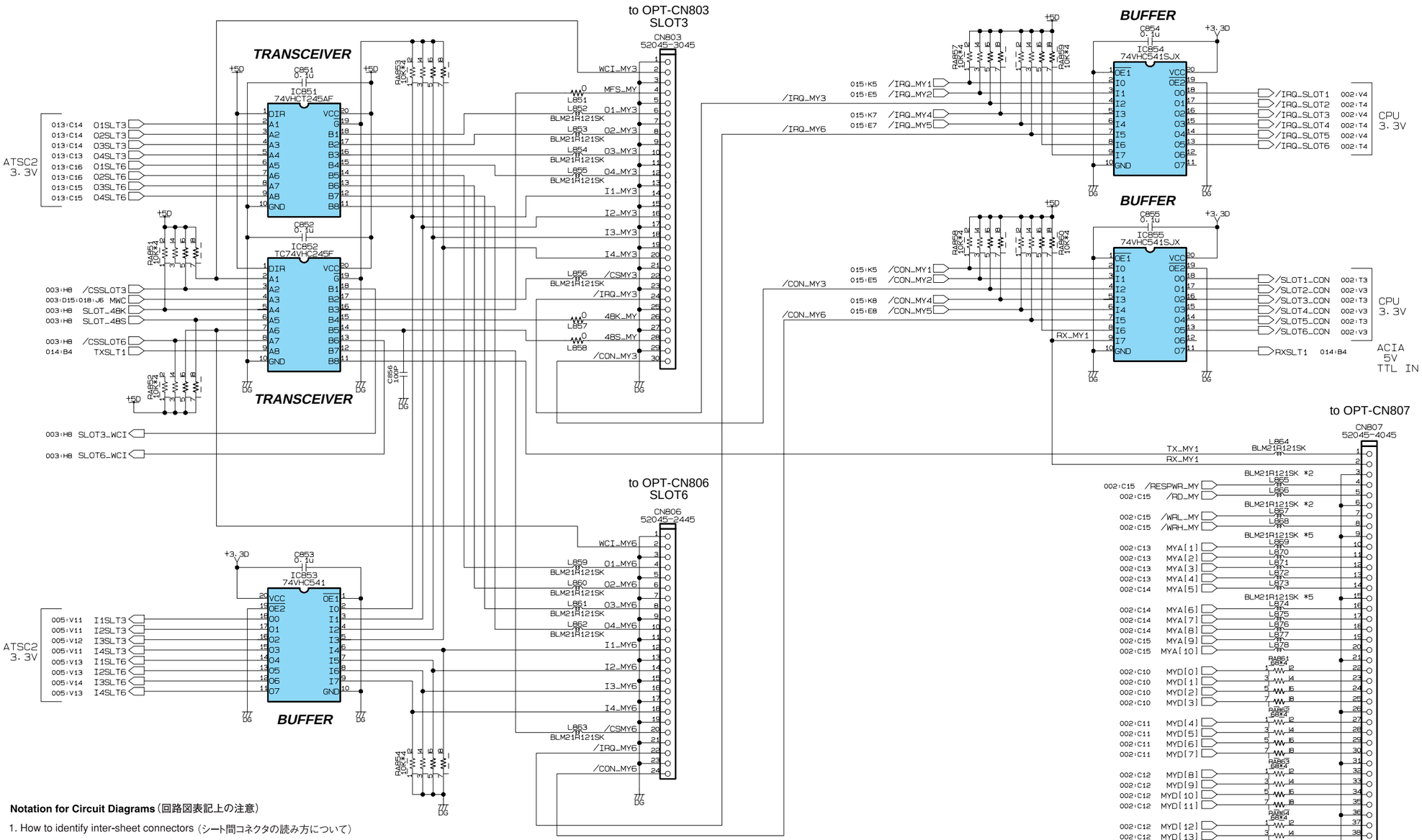
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



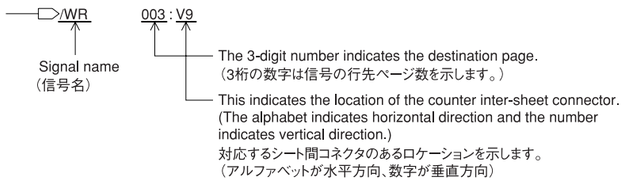
■ DSP OVERALL CIRCUIT DIAGRAM 016 (DM2000)

DM2000

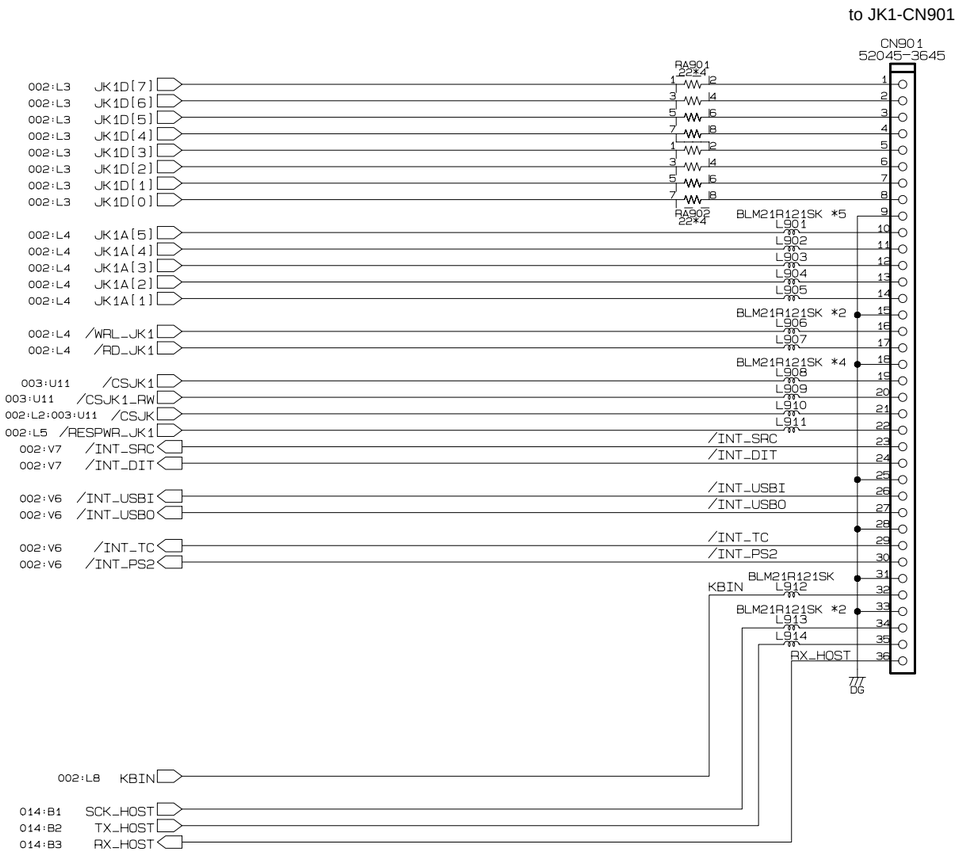


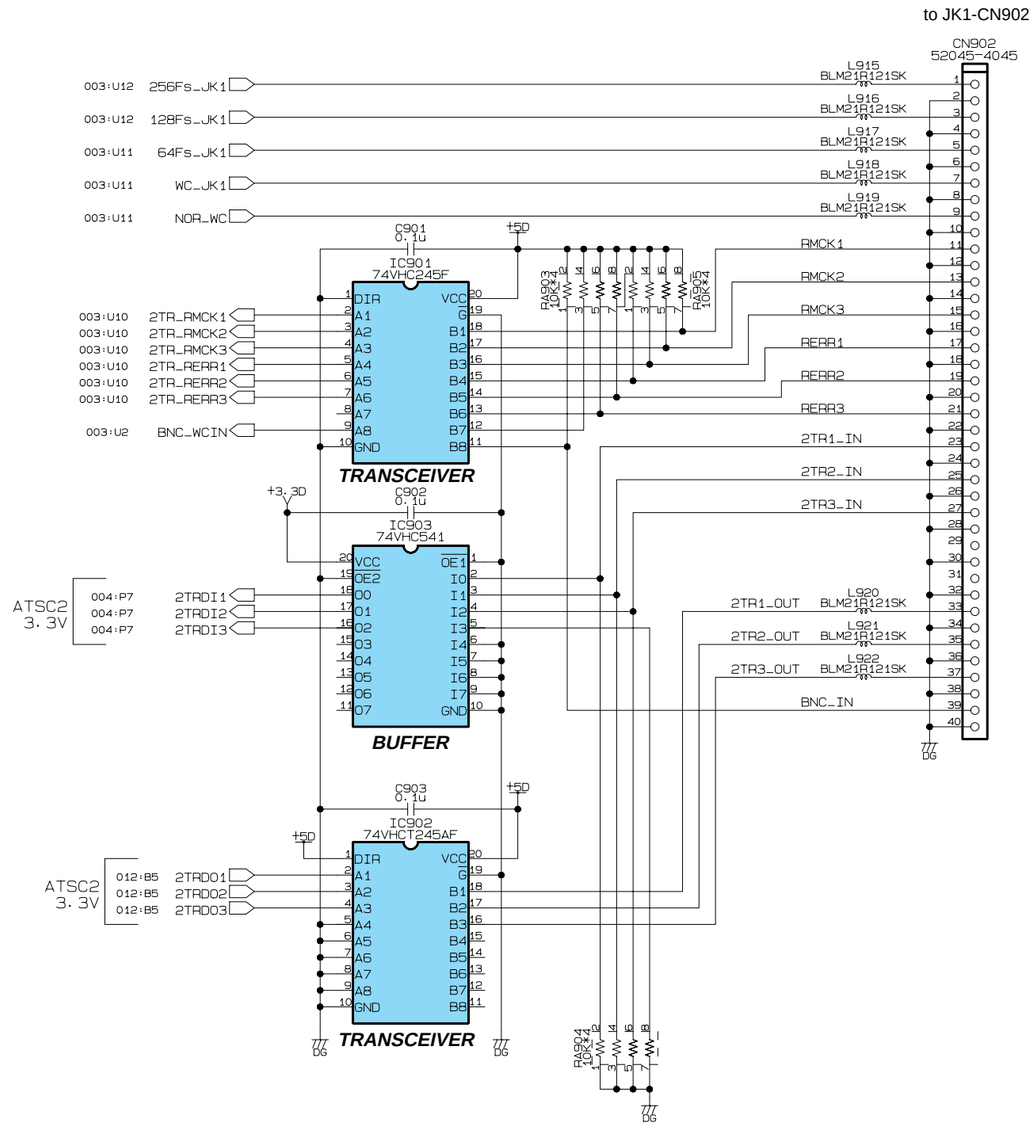
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



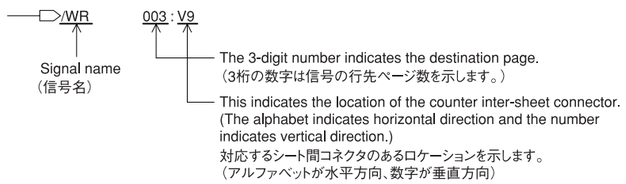
■ DSP OVERALL CIRCUIT DIAGRAM 017 (DM2000)





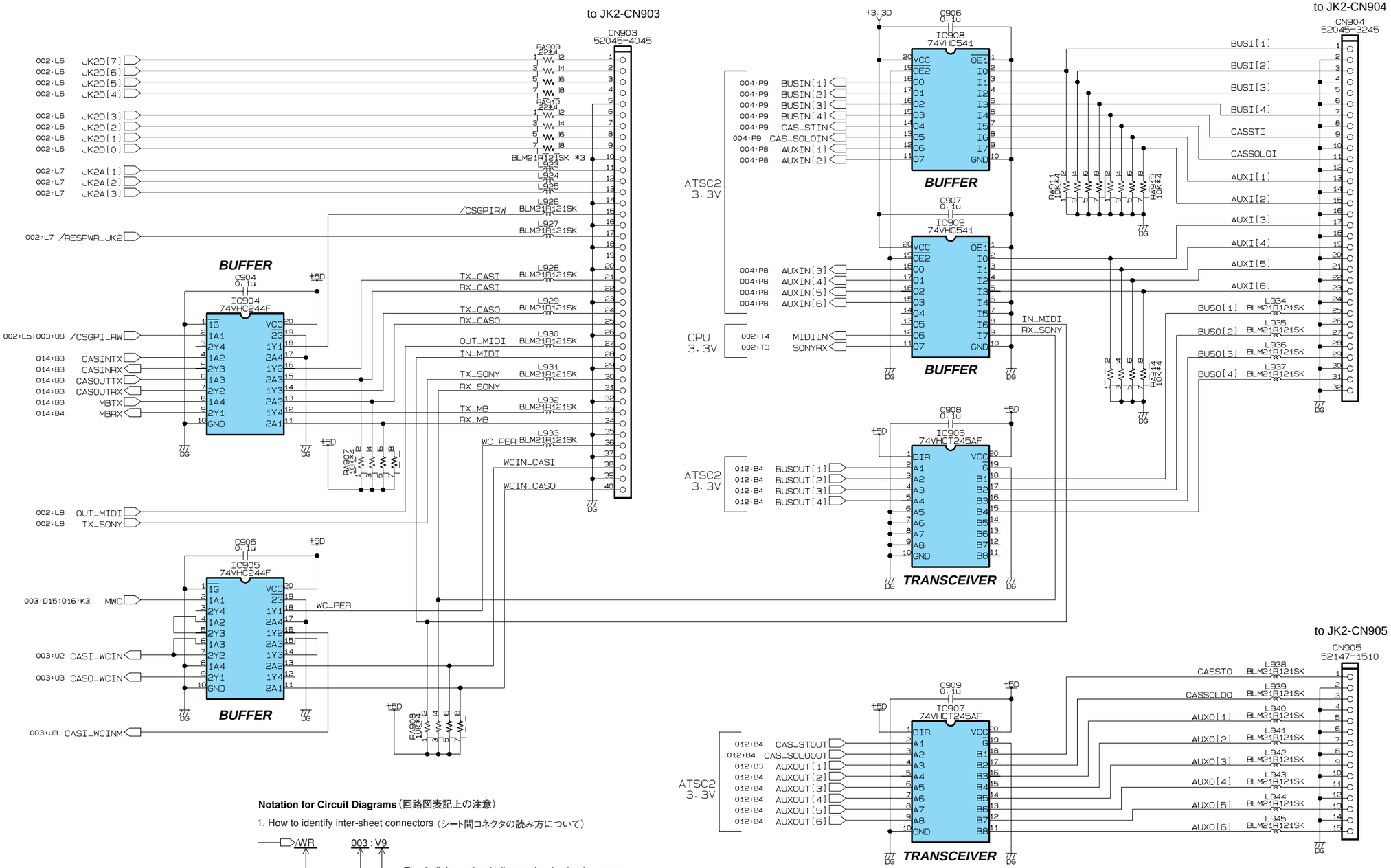
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



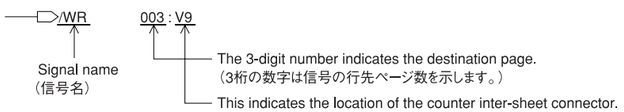
■ DSP OVERALL CIRCUIT DIAGRAM 018 (DM2000)

DM2000



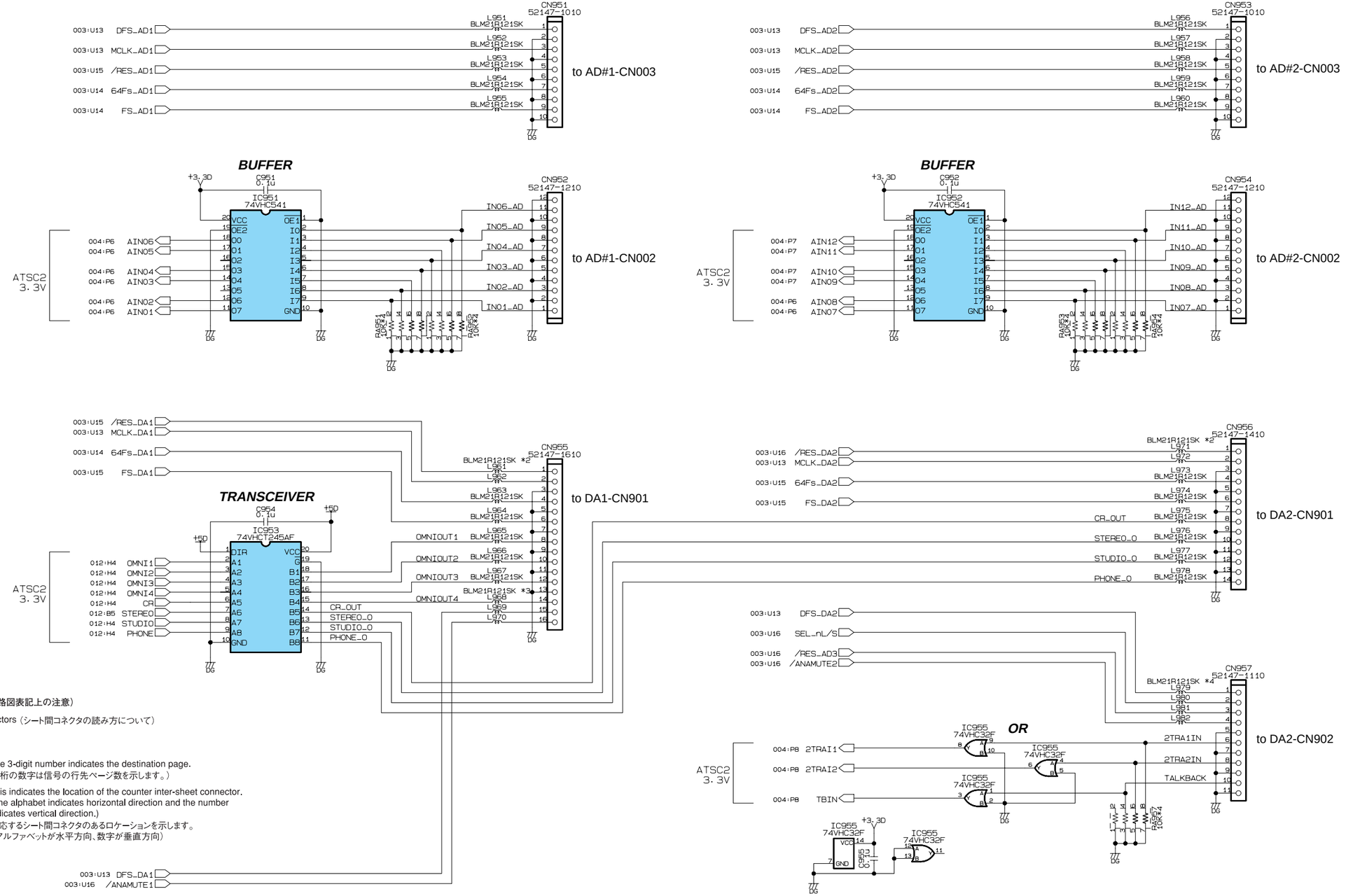
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ DSP OVERALL CIRCUIT DIAGRAM 019 (DM2000)

DM2000



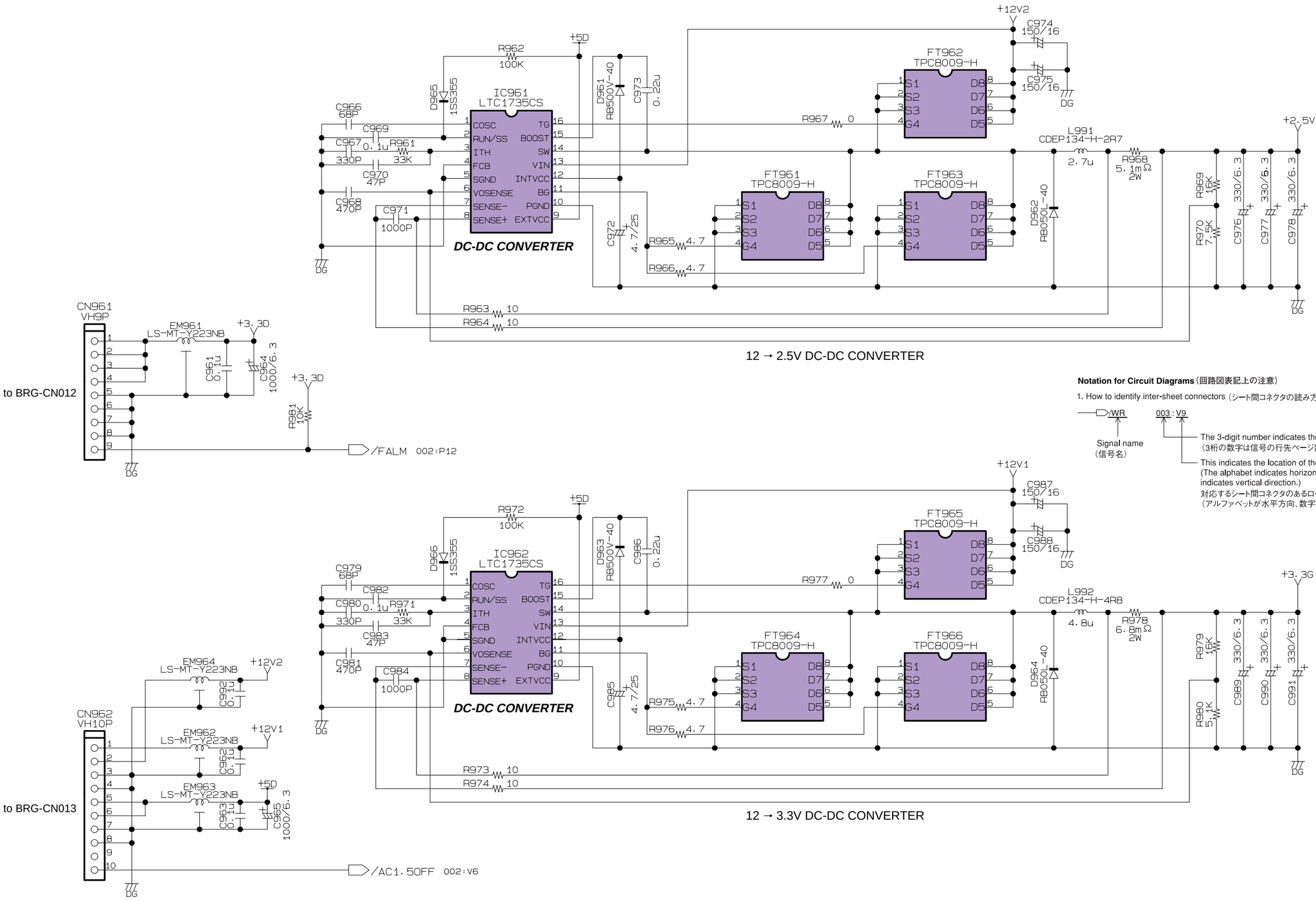
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ DSP OVERALL CIRCUIT DIAGRAM 020 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

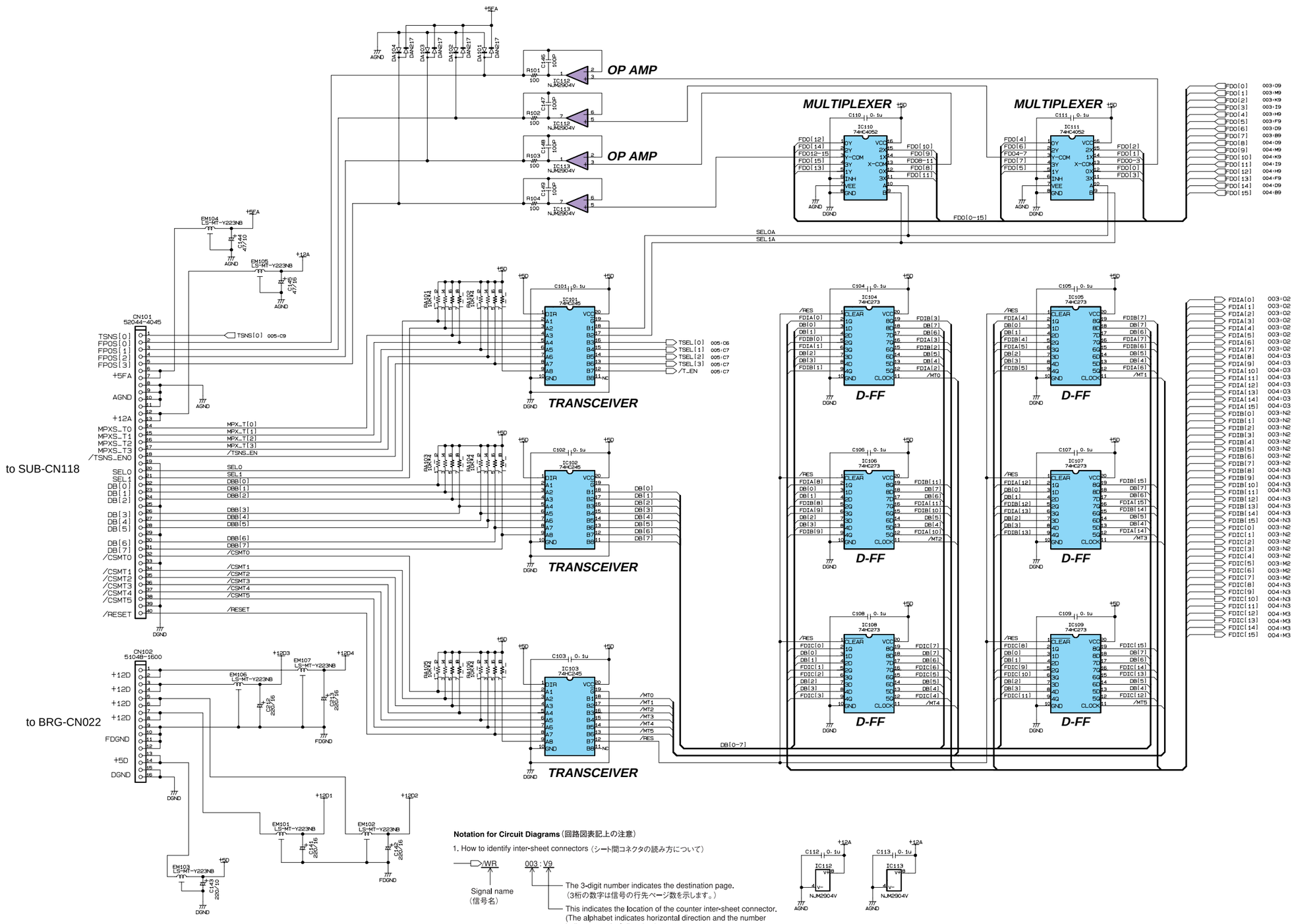
003 : V9 — The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ DSP OVERALL CIRCUIT DIAGRAM 020 (DM2000)

■ FD1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 · V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

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■ FD1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ FD1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

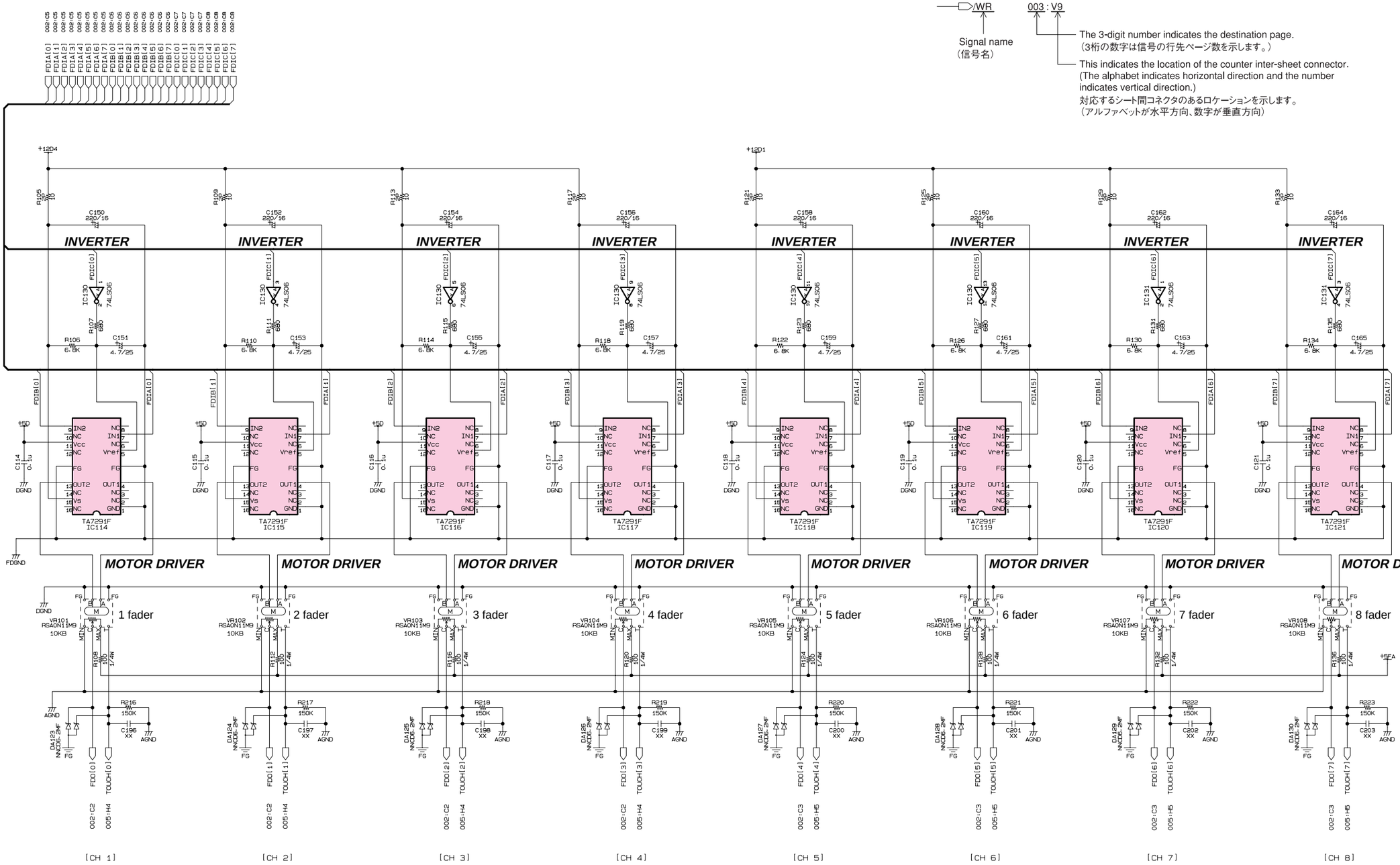
DM2000

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）



XX : not installed (実装しない)
2P : 2W Metal Oxide Film Resistor (2W酸化金属被膜抵抗)

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■ FD1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

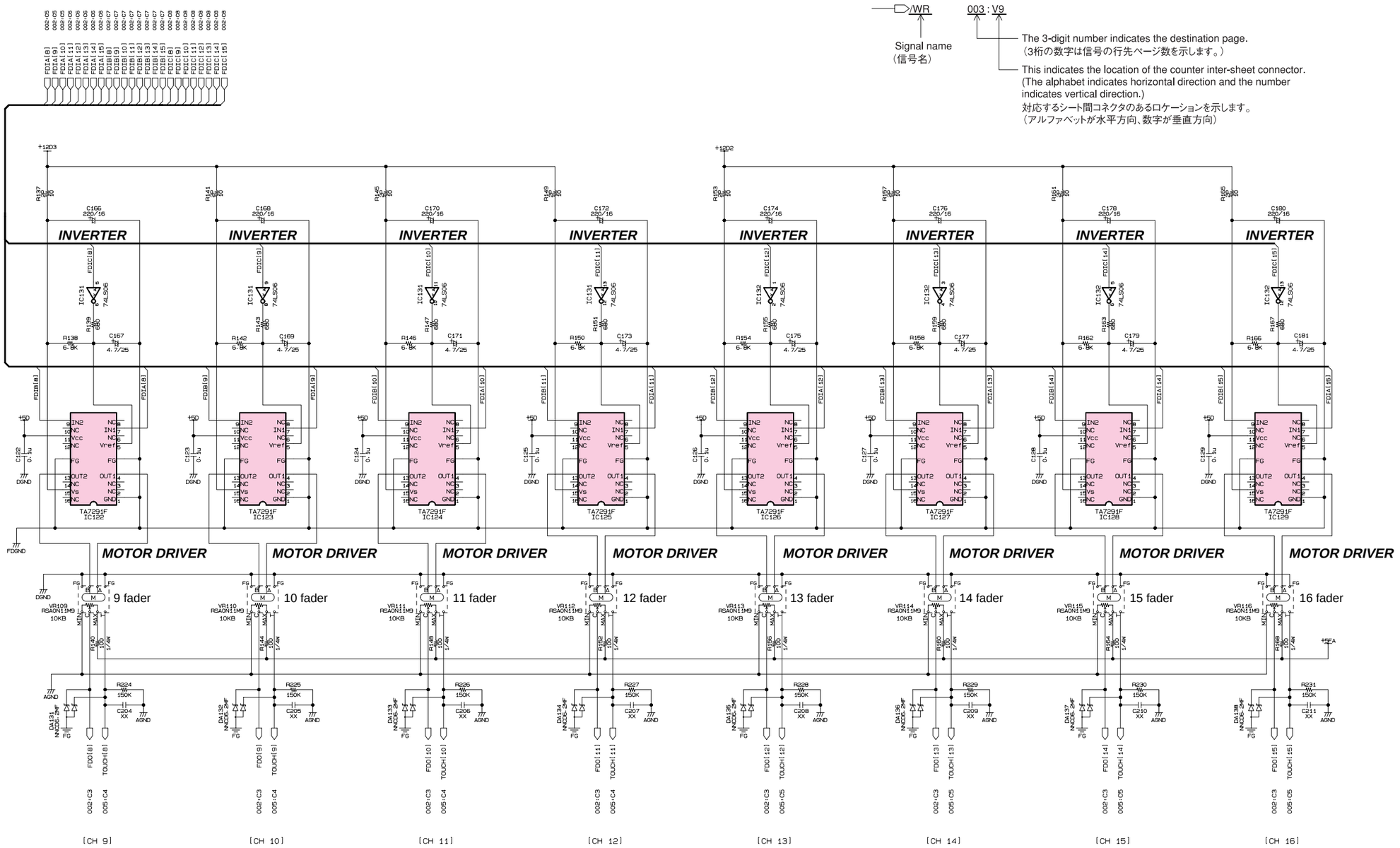
■ FD1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

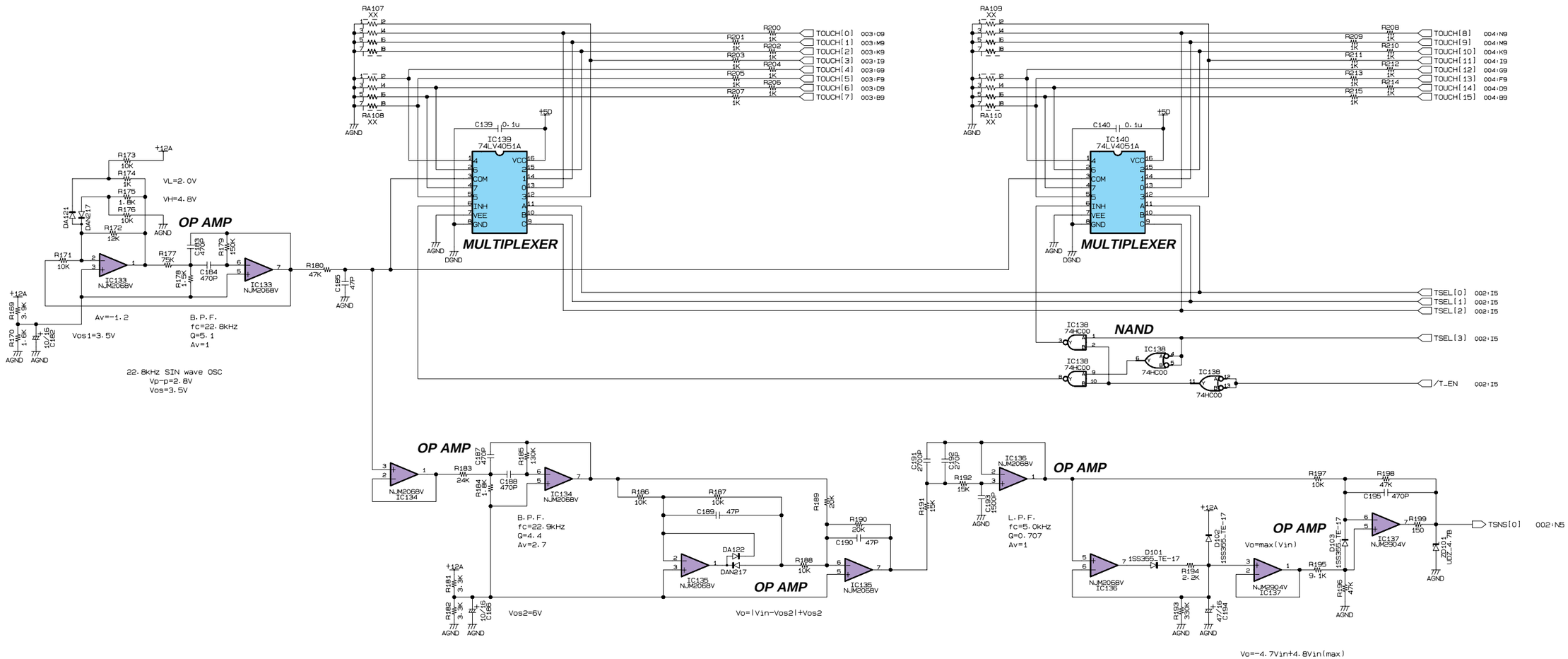


XX : **not installed** (実装しない)

2P : **2W Metal Oxide Film Resistor** (2W酸化金属被膜抵抗)

■ FD1 OVERALL CIRCUIT DIAGRAM 005 (DM2000)

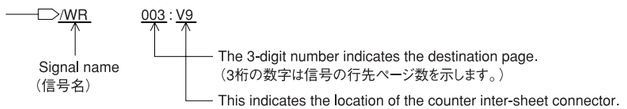
DM2000



XX : **not installed (実装しない)**

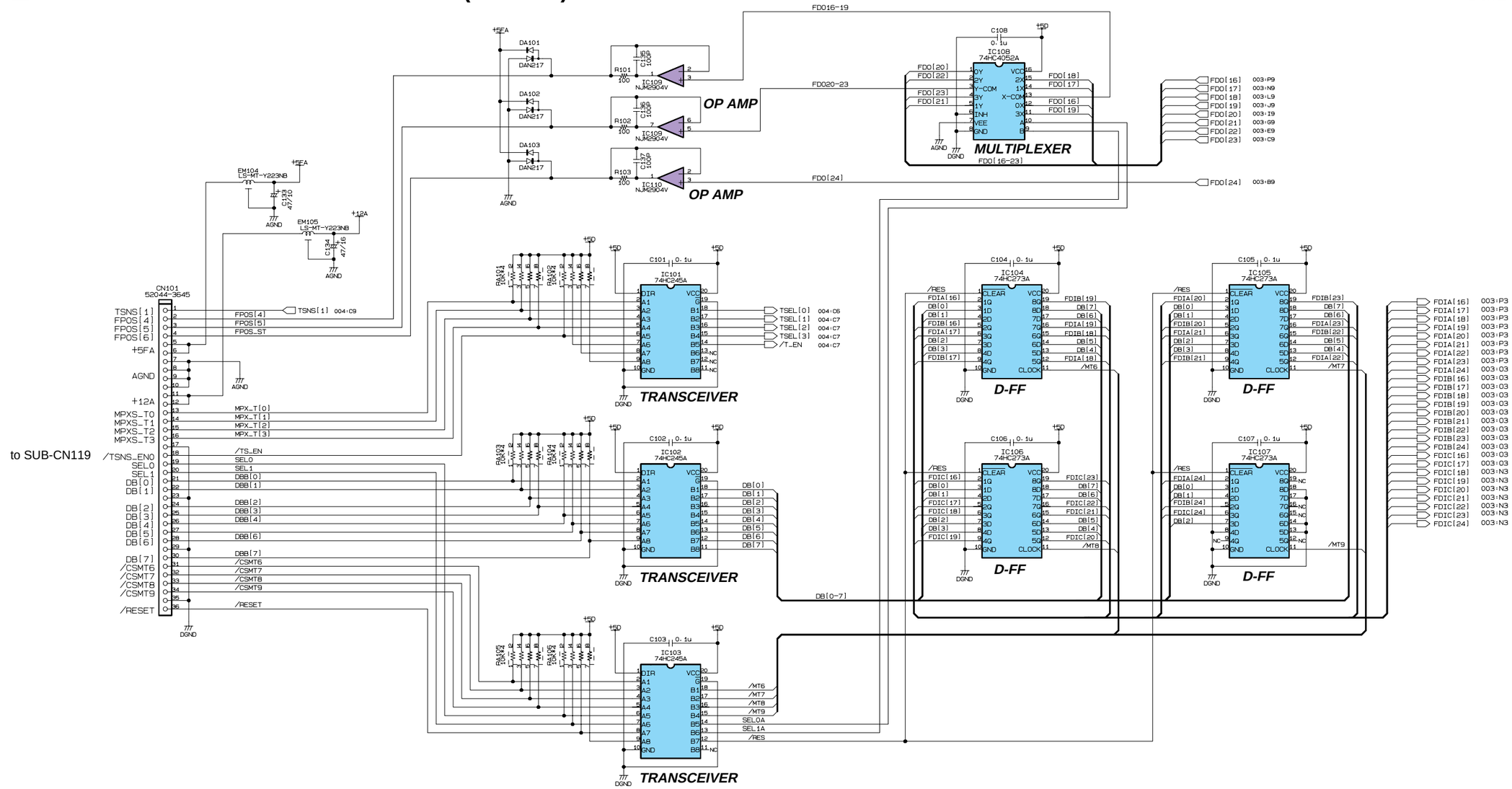
Notation for Circuit Diagrams（回路図表記上の注意）

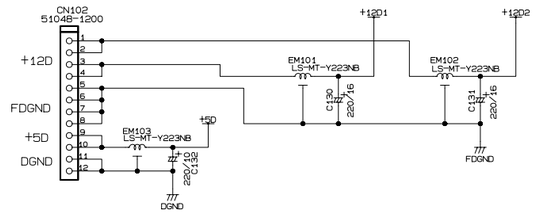
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

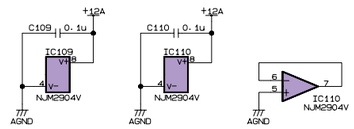


■ FD2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000

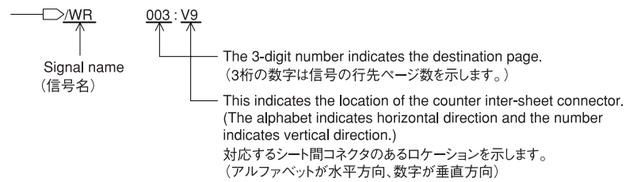






Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

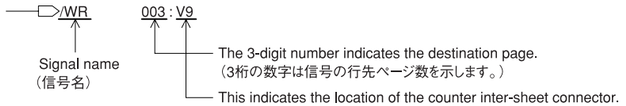


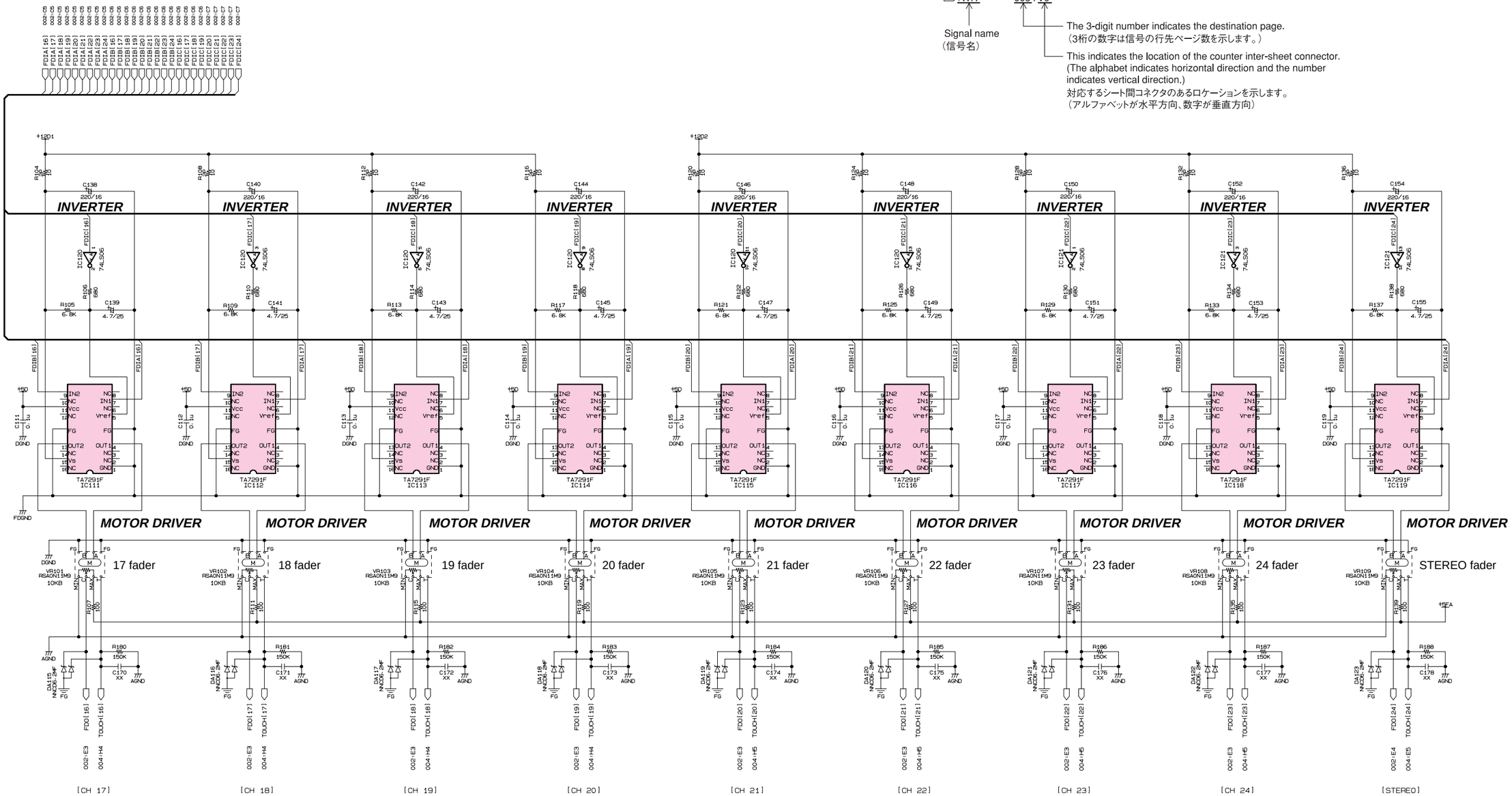
■ FD2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

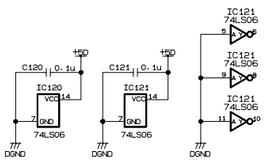
DM2000

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）







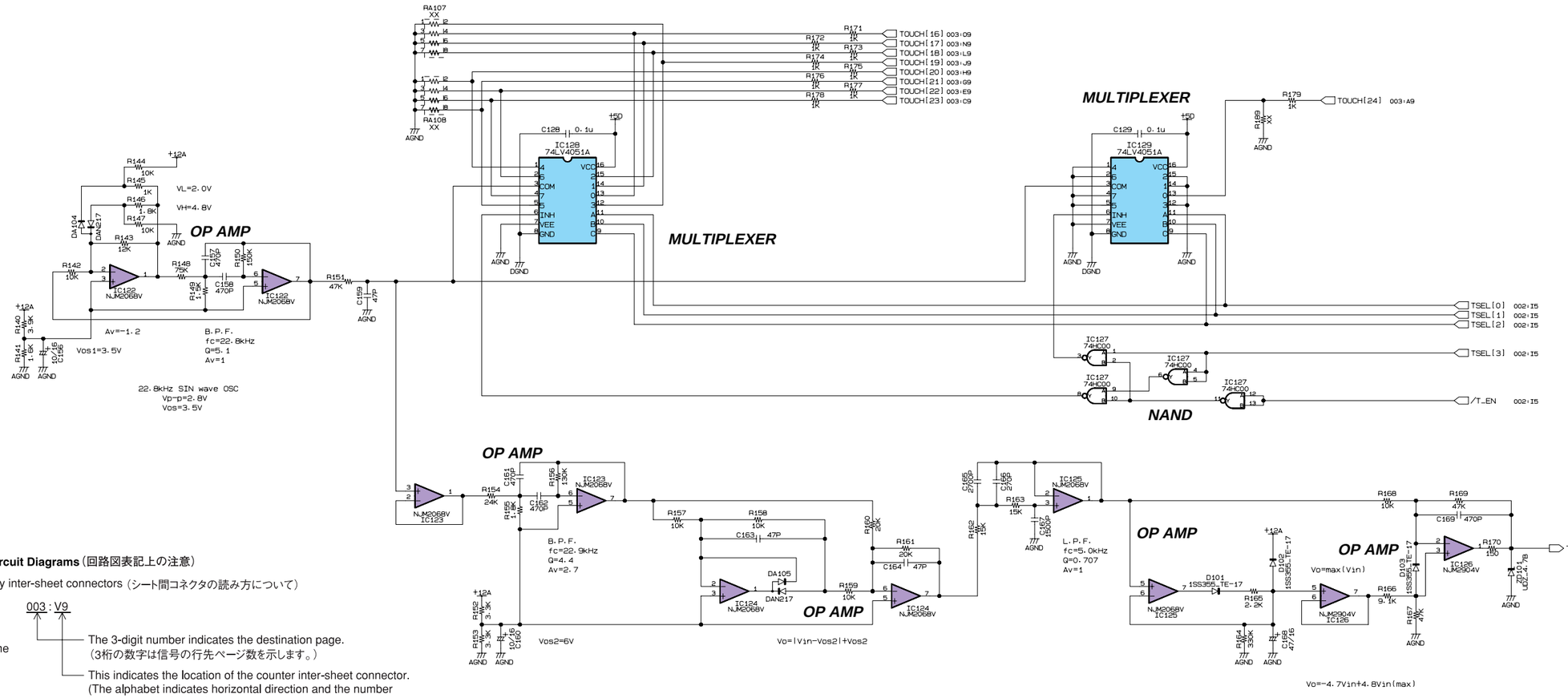
XX : **not installed** (実装しない)

2P : **2W Metal Oxide Film Resistor** (2W酸化金属被膜抵抗)

38CC1-8822230-3 1

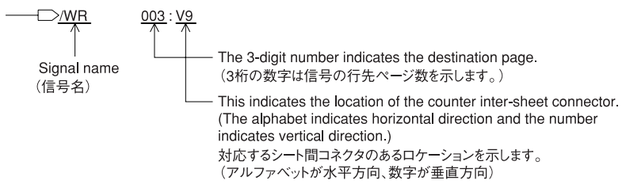
■ FD2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

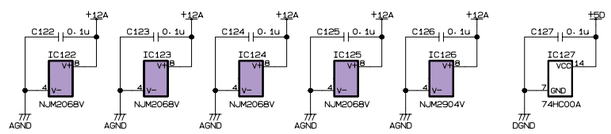
■ FD2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

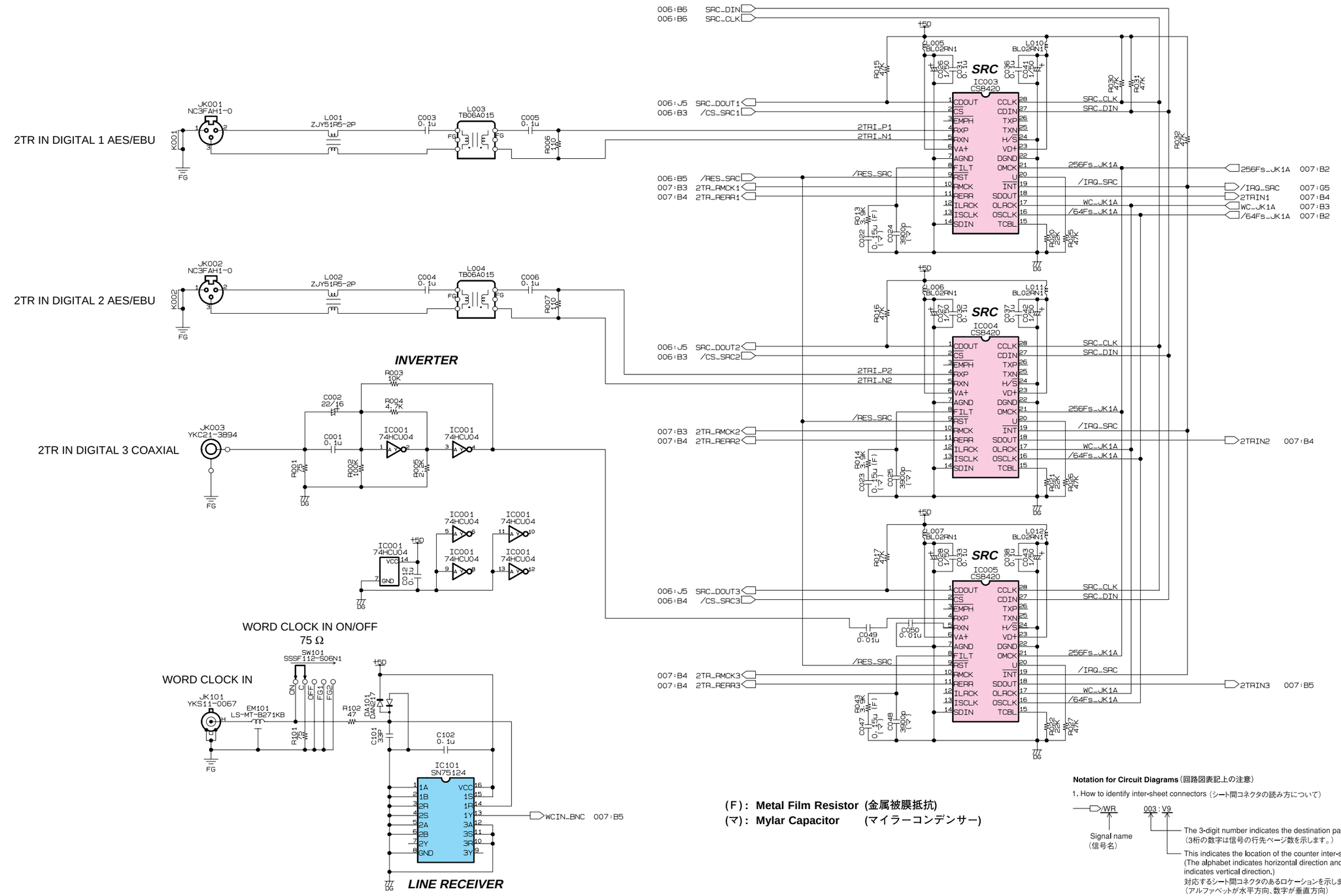




XX： **not installed (実装しない)**

■ JK1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

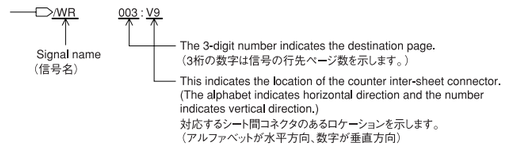
DM2000



(F): Metal Film Resistor (金属被膜抵抗)
(マ): Mylar Capacitor (マイラーコンデンサー)

Notation for Circuit Diagrams (回路図表記上の注意)

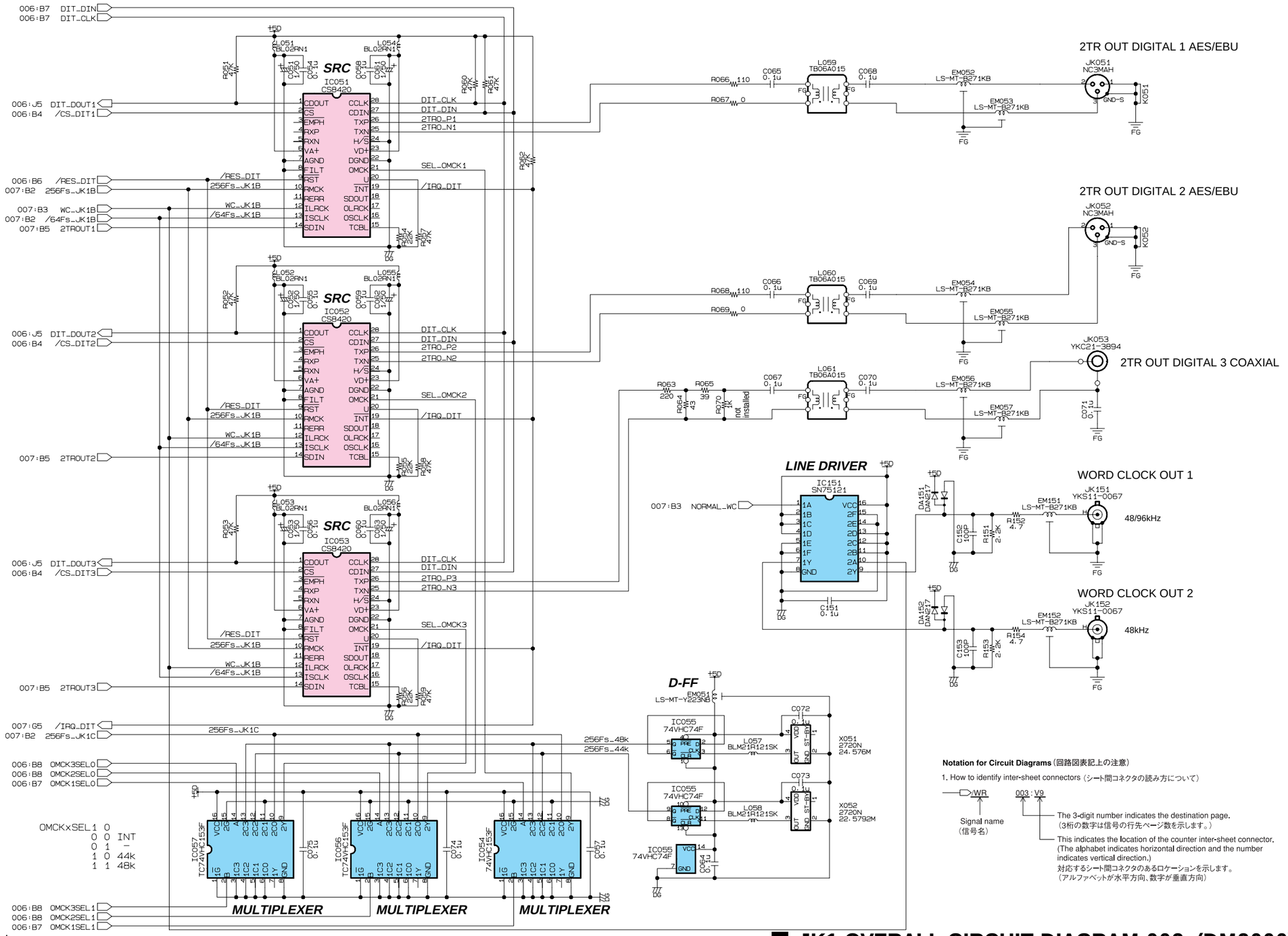
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



■ JK1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ JK1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

■ JK1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

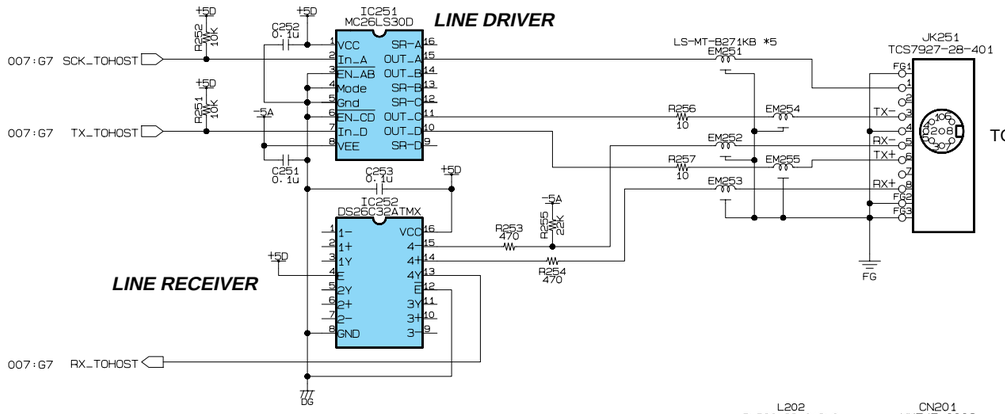
DM2000

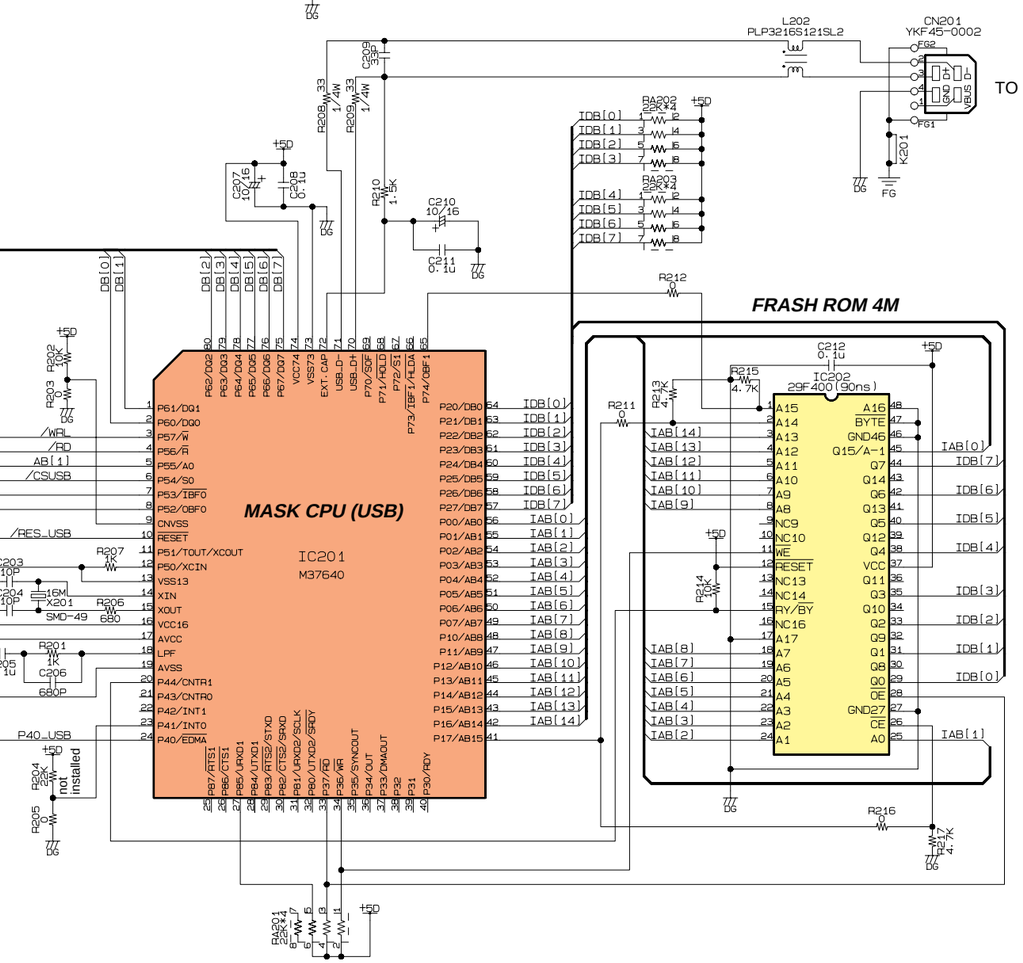
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）





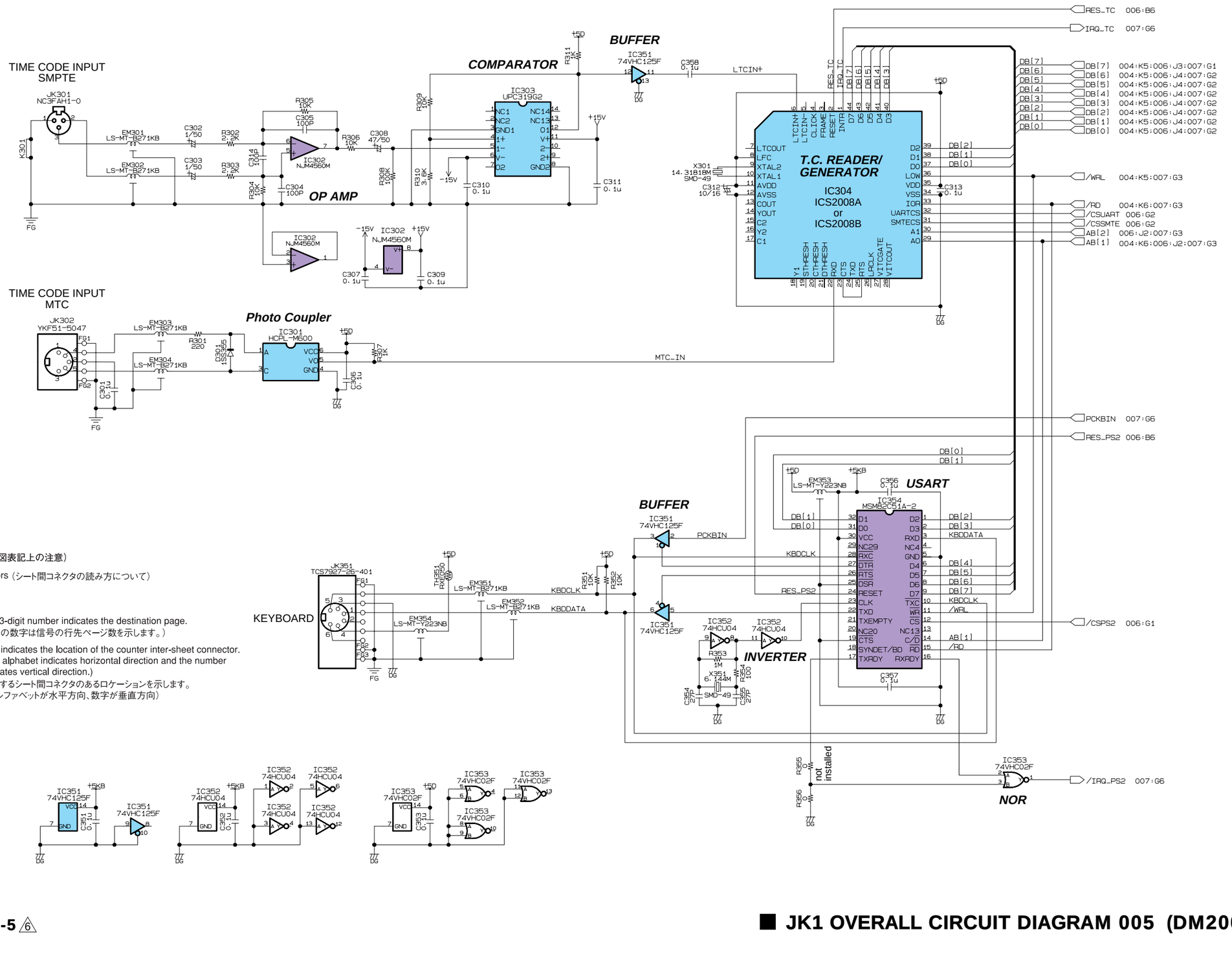
R203 (CNVSS)	—
R216 (CE)	—
R211 (A14)	○
R212 (A15)	○

○ : installed
— : not installed

■ JK1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ JK1 OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ JK1 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

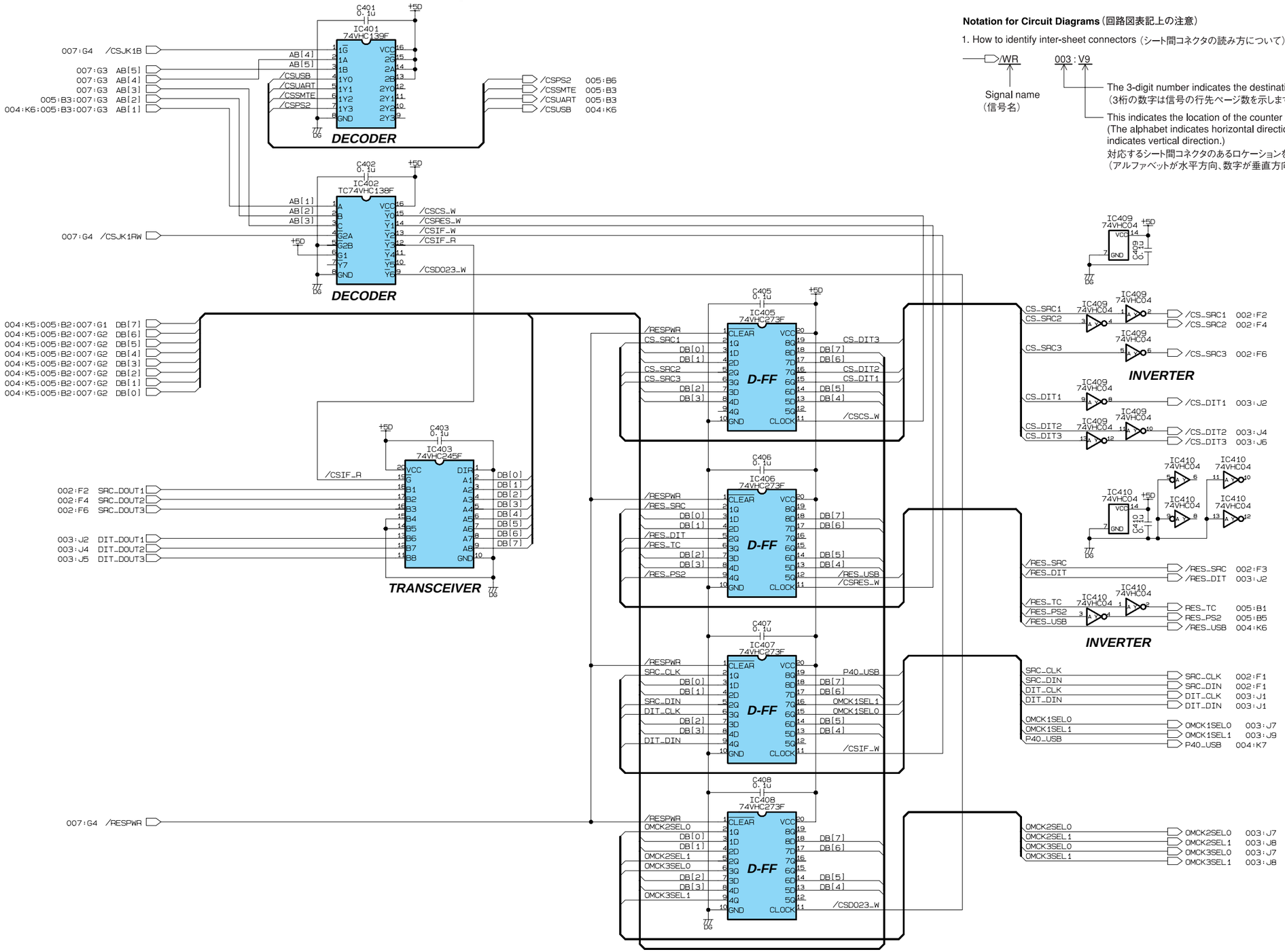
DM2000

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

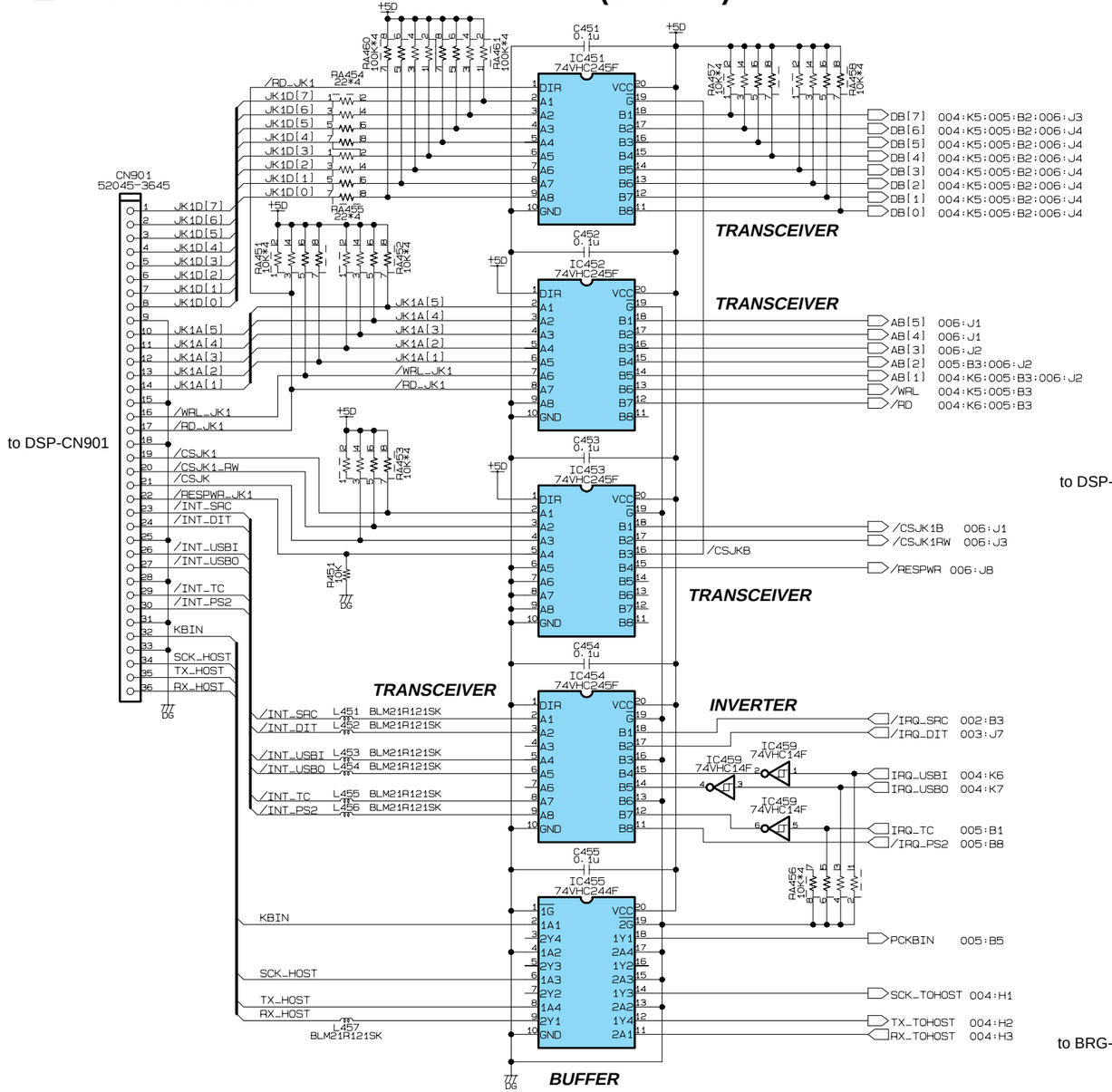
/WR — Signal name（信号名）

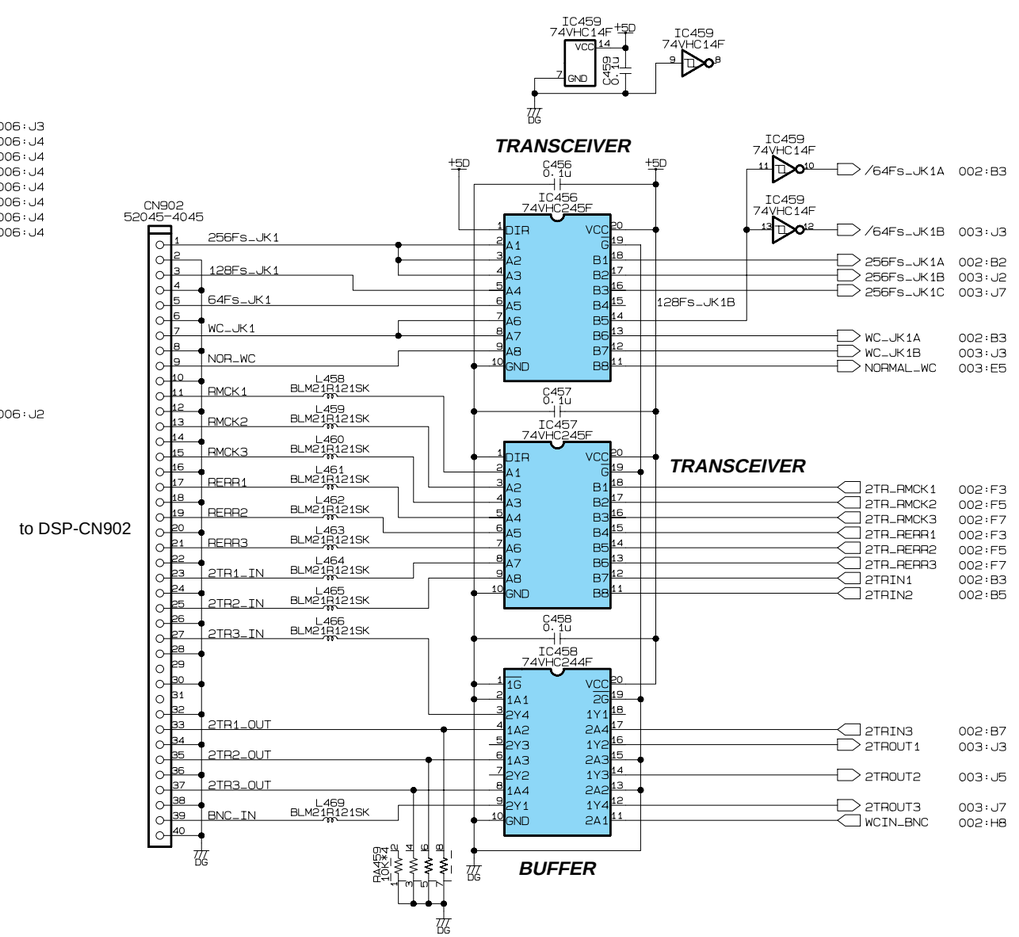
003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

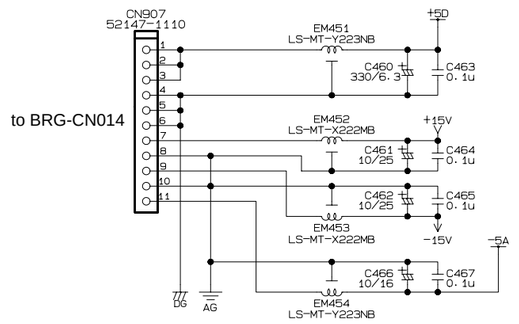


■ JK1 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

■ JK1 OVERALL CIRCUIT DIAGRAM 007 (DM2000)

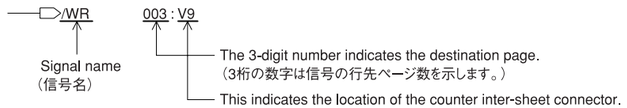






Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ JK1 OVERALL CIRCUIT DIAGRAM 007 (DM2000)

■ JK2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

Notation for Circuit Diagrams（回路図表記上の注意）

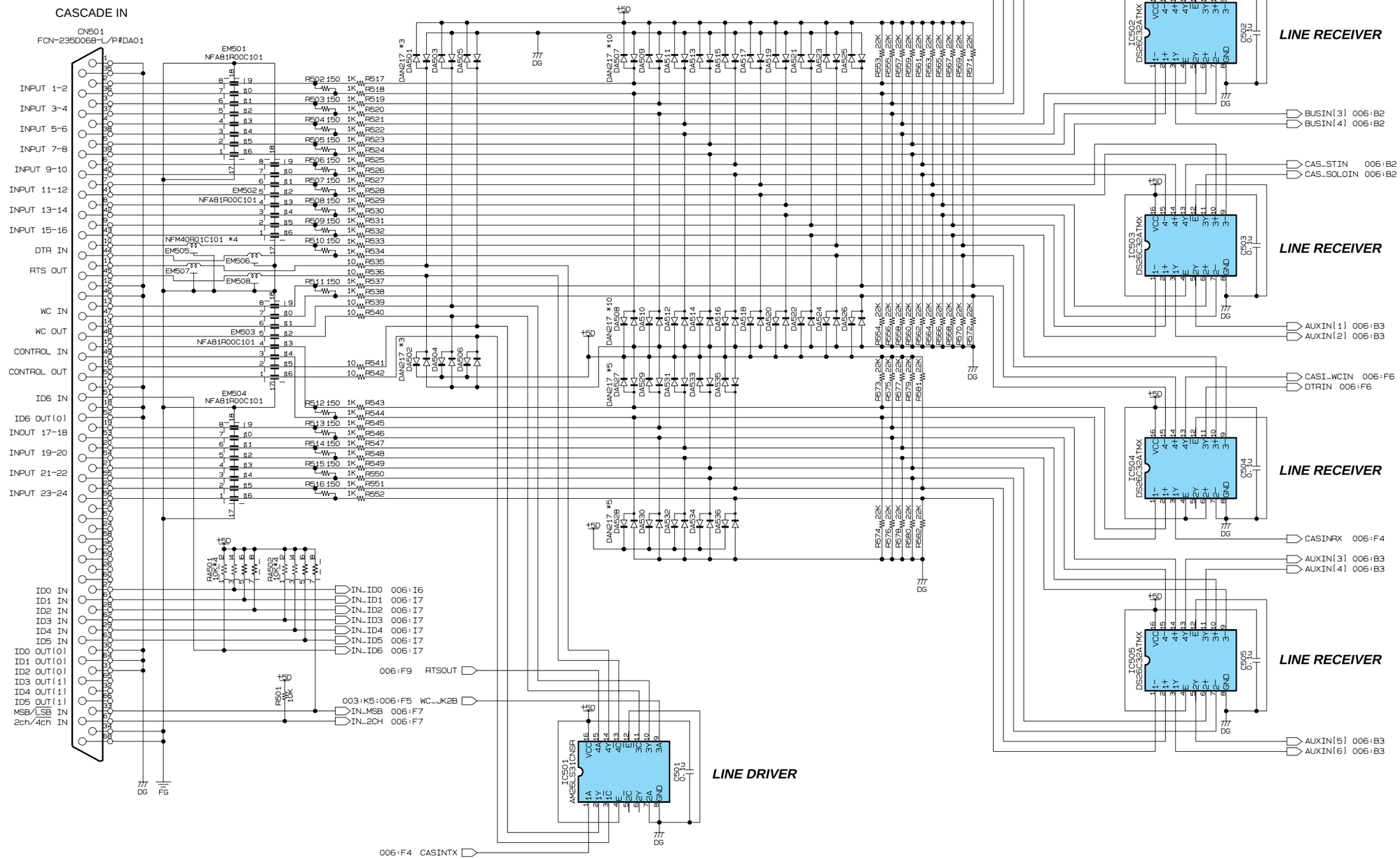
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR　003 : V9

Signal name（信号名）

The 3-digit number indicates the destination page.
（3桁の数字は信号の行先ページ数を示します。）

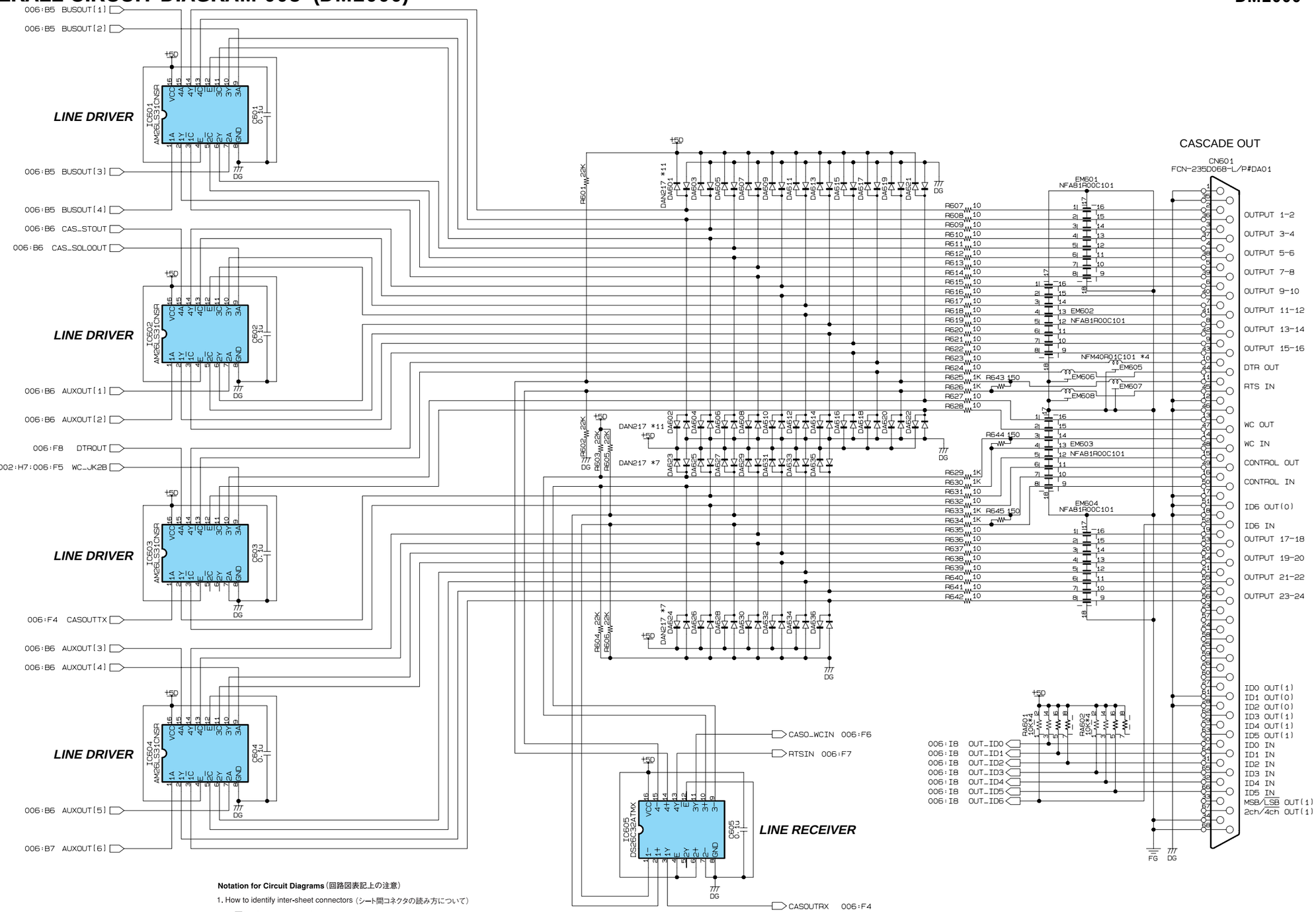
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
（アルファベットが水平方向、数字が垂直方向）



■ JK2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ JK2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

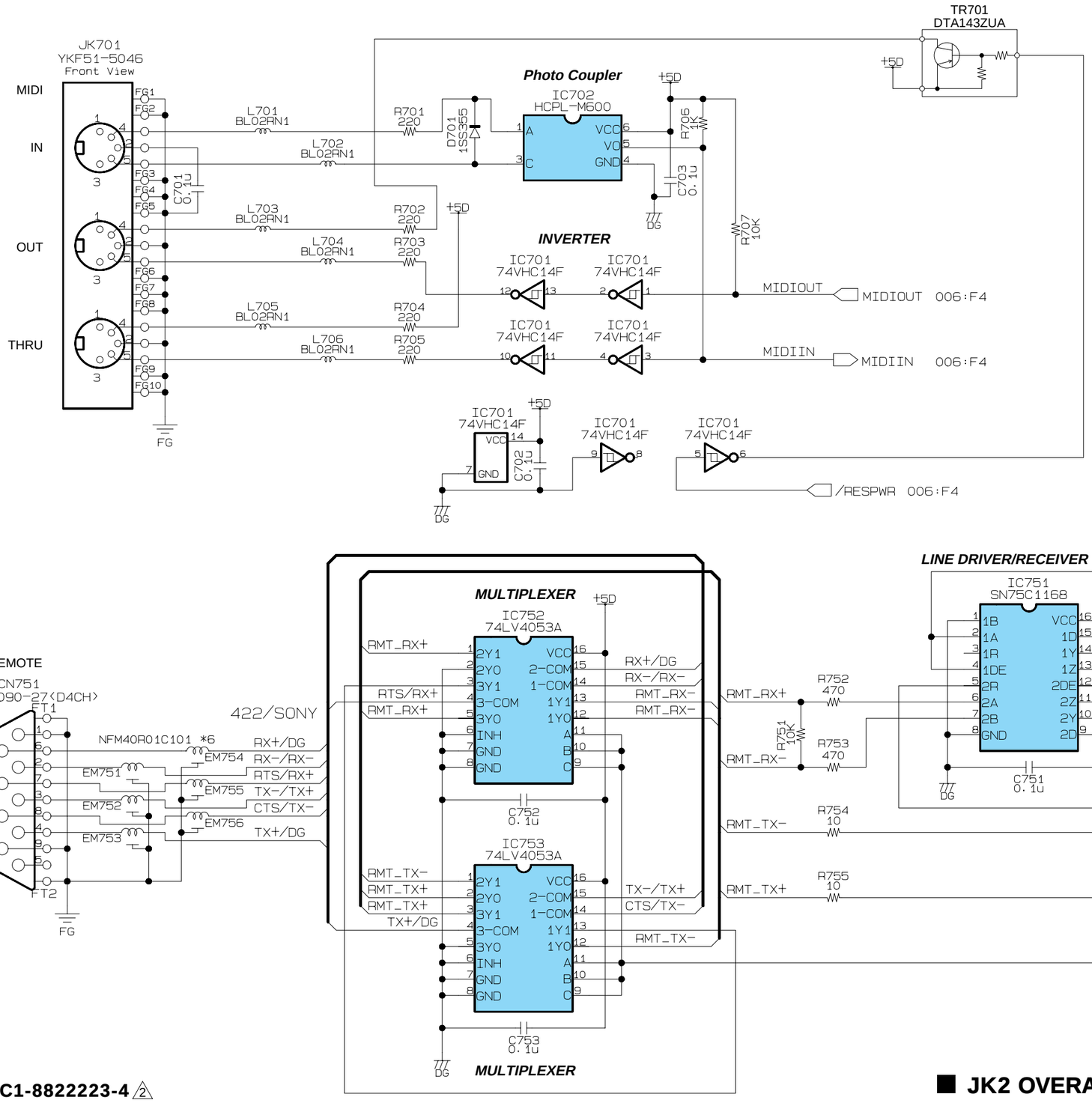
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
  対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ JK2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

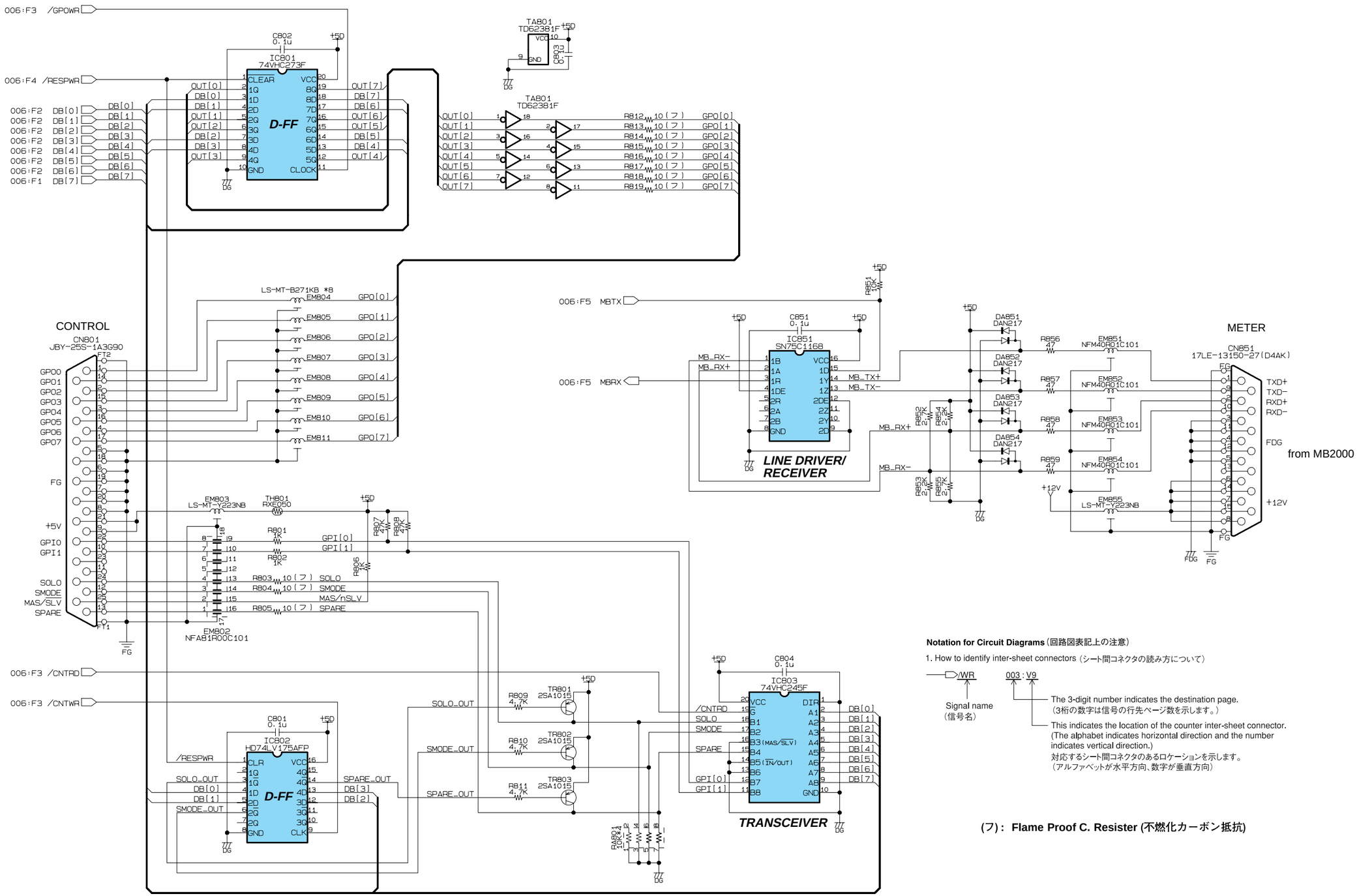
/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

38CC1-8822223-4 /2

■ JK2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ JK2 OVERALL CIRCUIT DIAGRAM 005 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

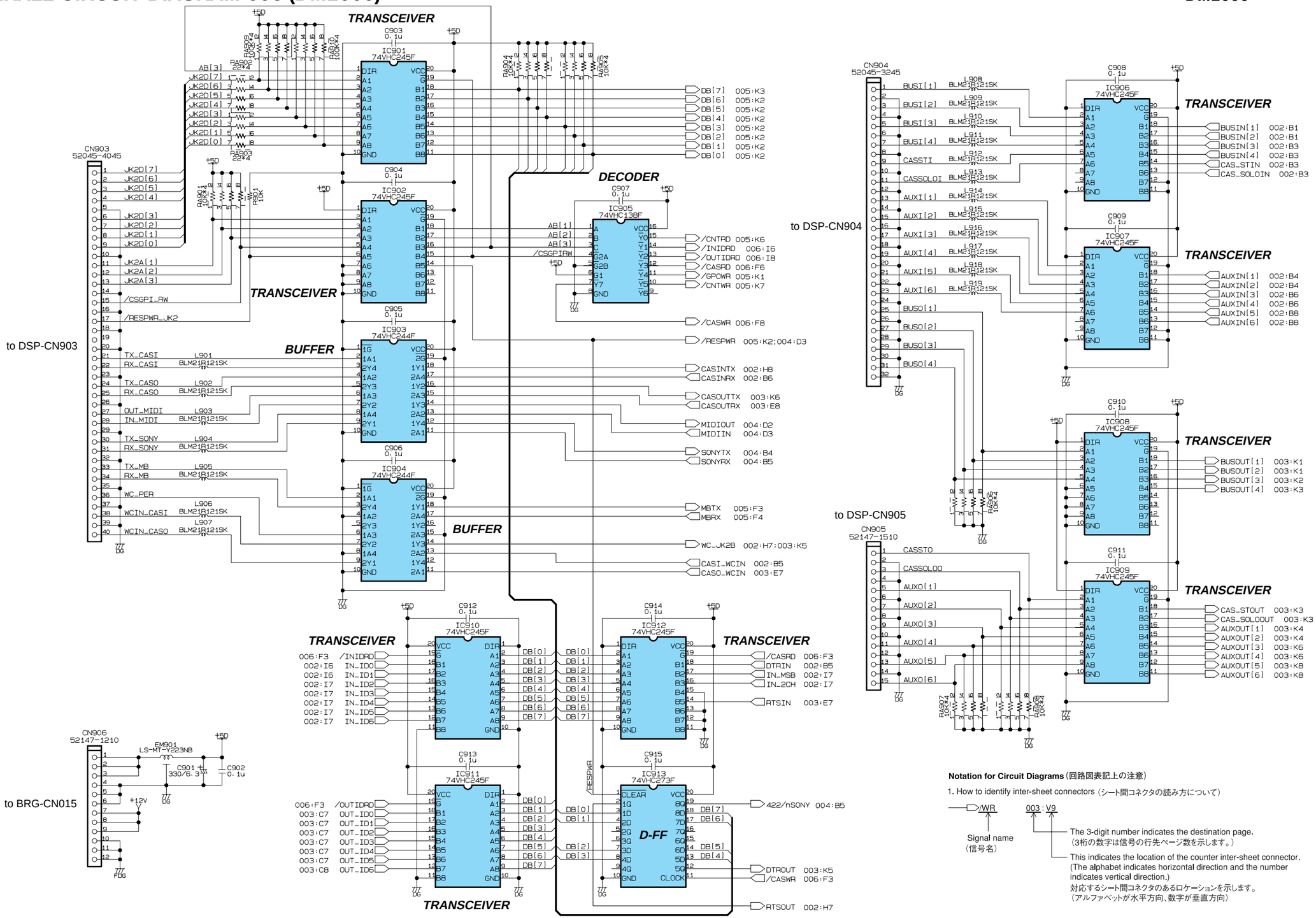
/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
  対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

(フ) : Flame Proof C. Resister (不燃化カーボン抵抗)

■ JK2 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000

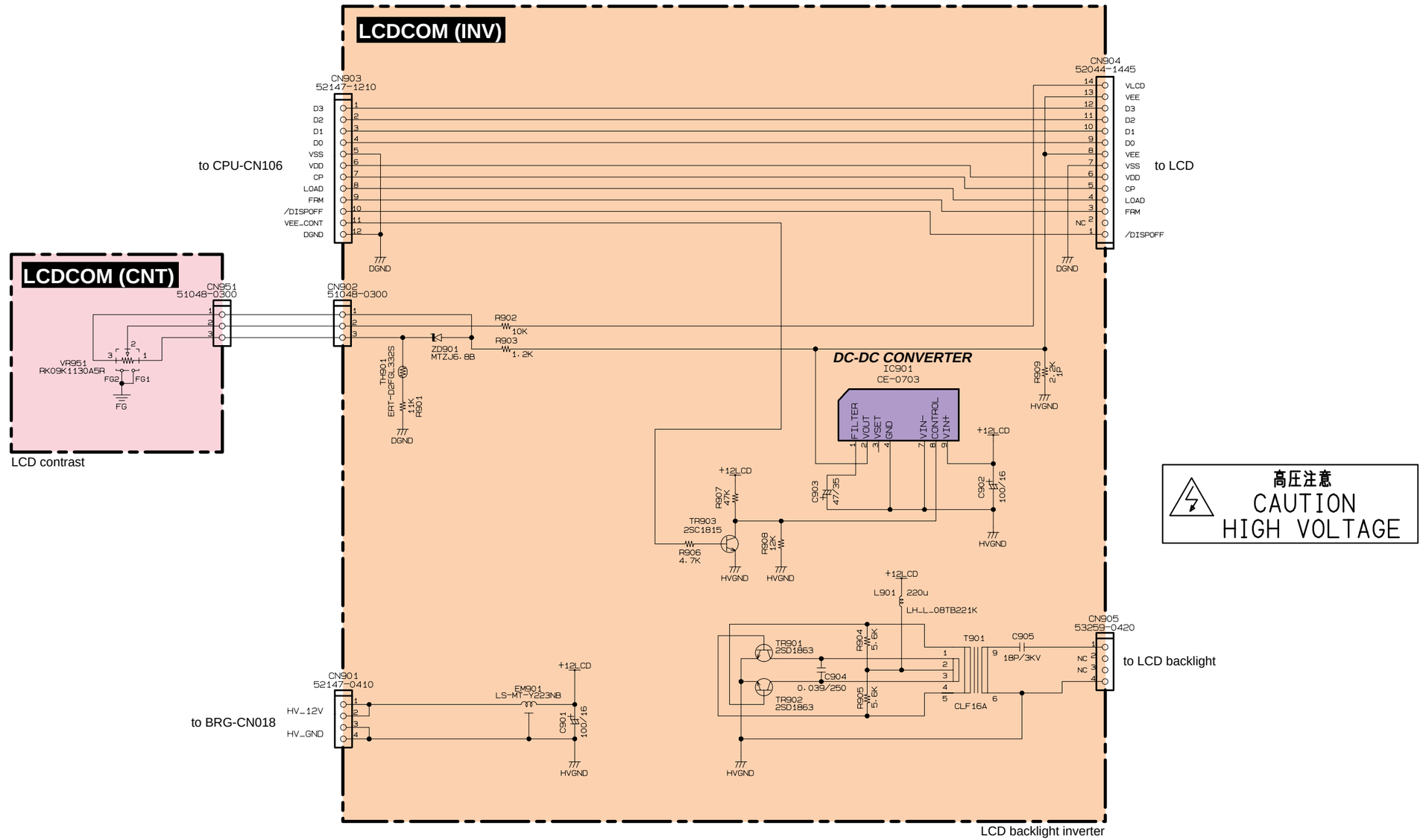


Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

■ JK2 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

■ LCDCOM OVERALL CIRCUIT DIAGRAM (DM2000)

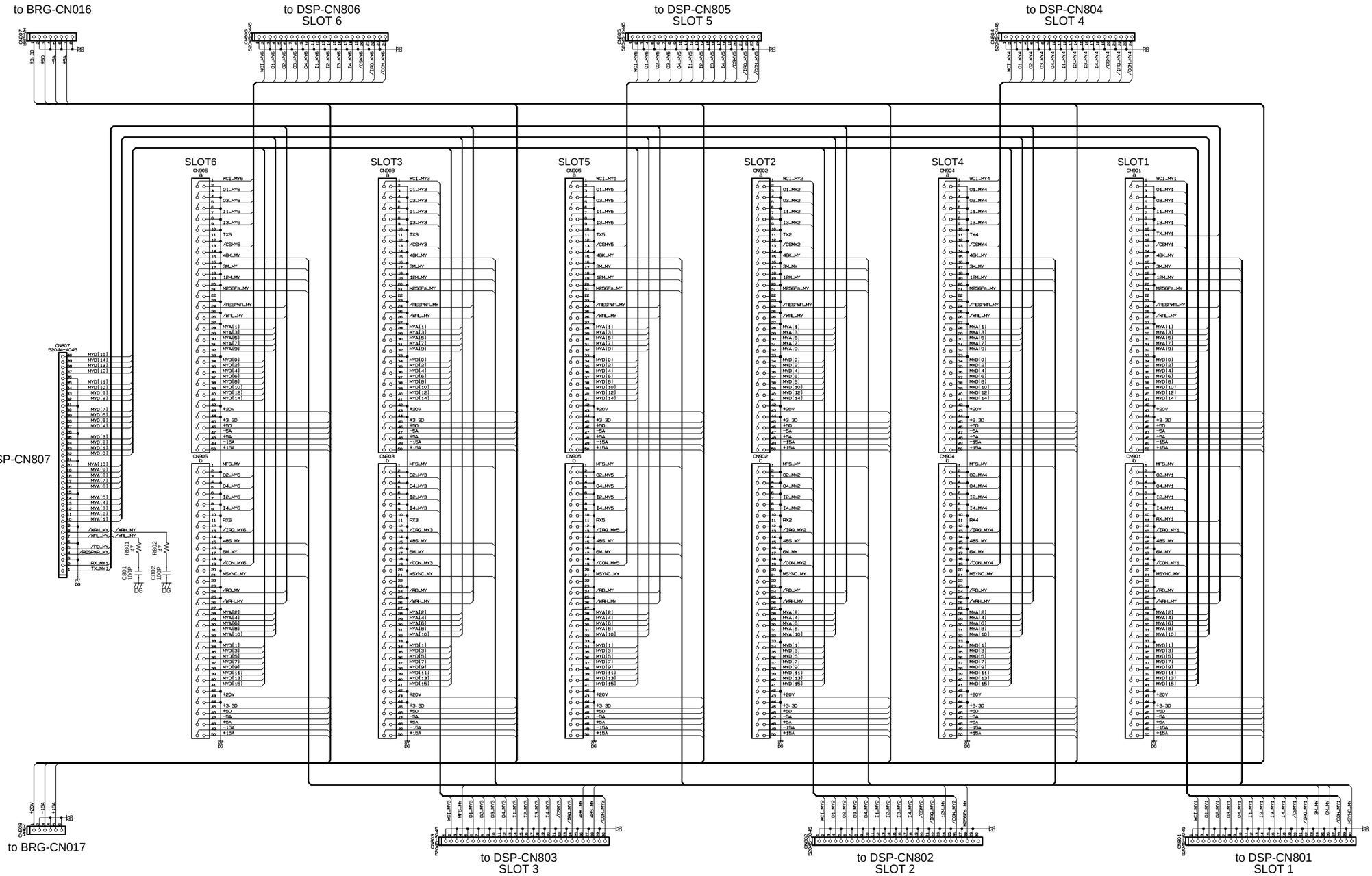


高压注意
CAUTION
HIGH VOLTAGE

1P： 1W Metal Oxide Film Resistor (1W酸化金属被膜抵抗)

■ OPT OVERALL CIRCUIT DIAGRAM (DM2000)

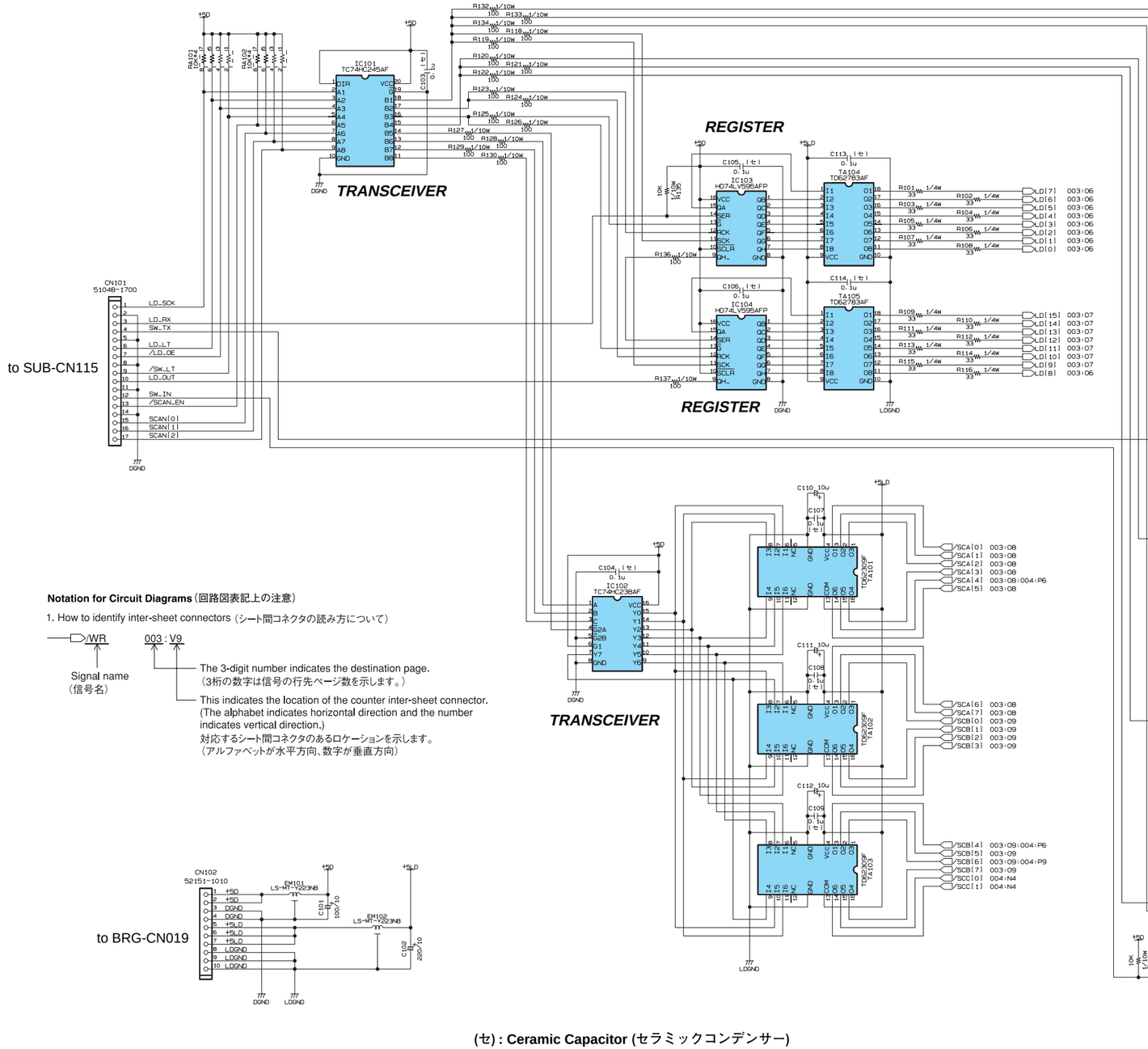
DM2000



38CC1-8822221-1 ⚠1

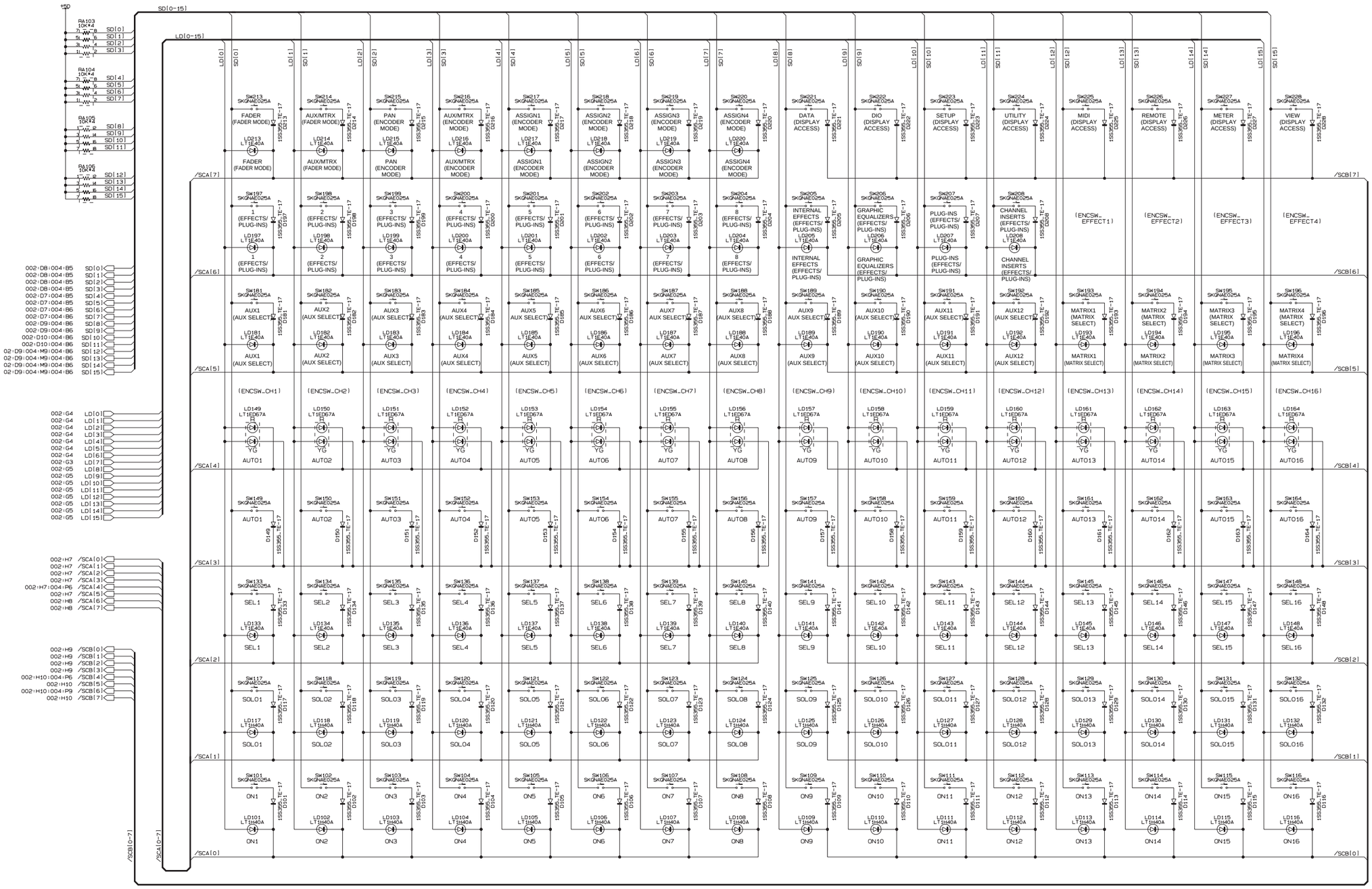
■ OPT OVERALL CIRCUIT DIAGRAM (DM2000)

■ PN1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)



■ PN1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

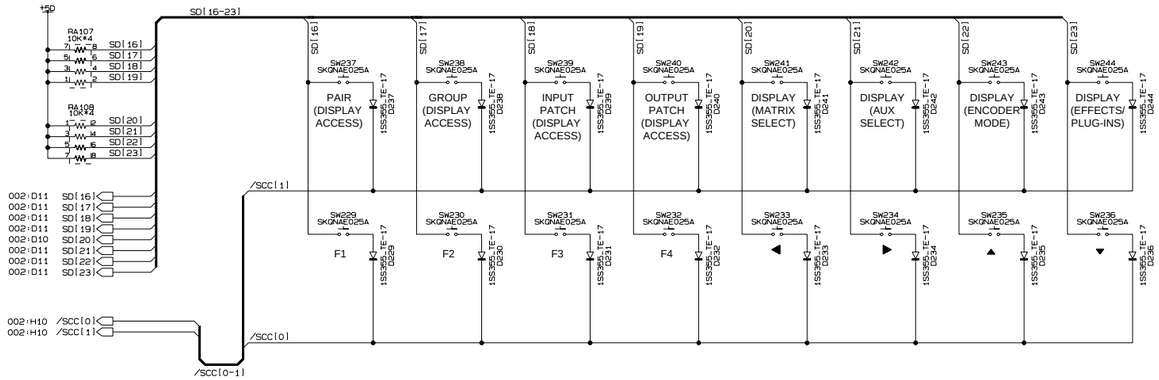
/WR — Signal name（信号名）
003 : V9
The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

LT1H40A : Yellow
LT1E40A : Yellow Green
LT1D40A : Red
LT1ED67A: Red/Yellow Green

ENCSW_ = Encoder Switch
FX/PLUGIN = EFFECTS/PLUG-INS
F_MODE_ = FADER MODE
E_MODE_ = ENCODER MODE

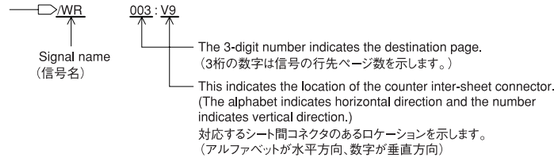
■ PN1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

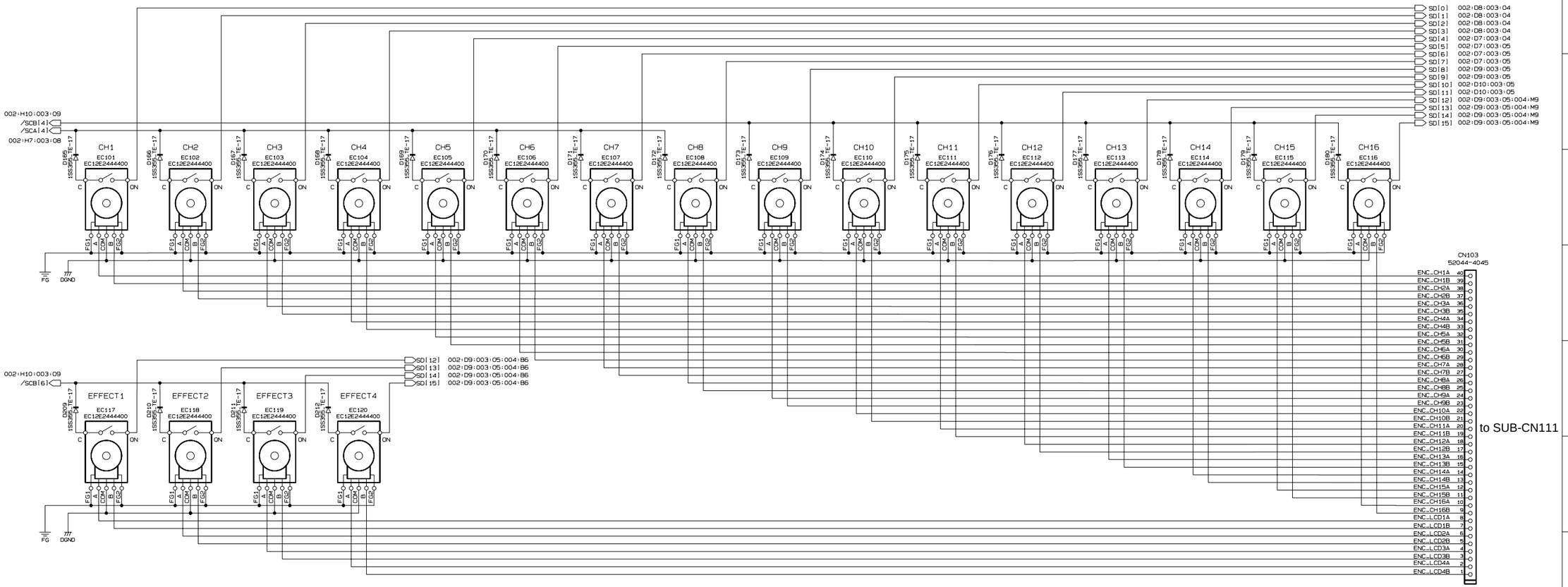
■ PN1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



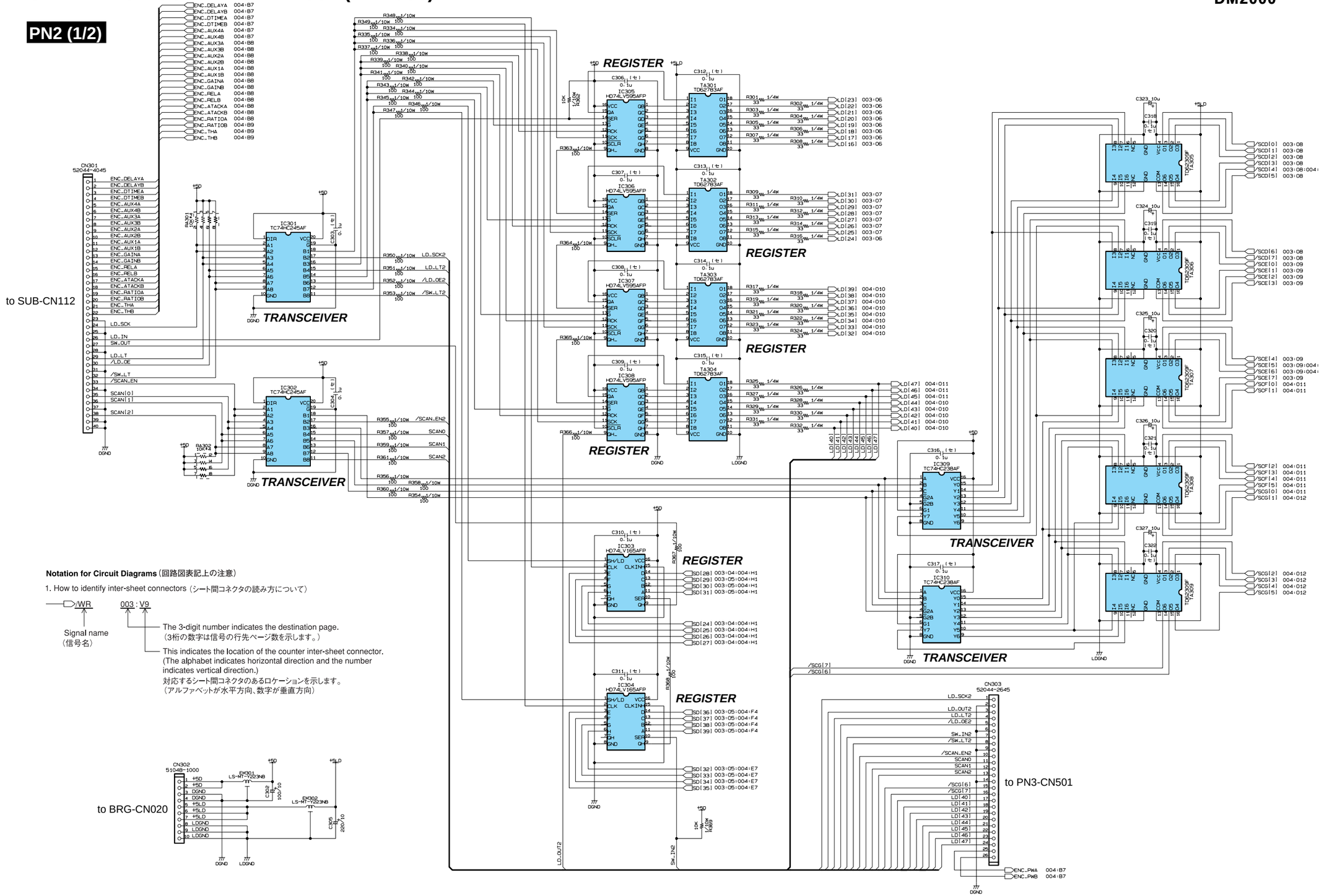


■ PN1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ PN2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000

PN2 (1/2)



Notation for Circuit Diagrams (回路図表記上の注意)

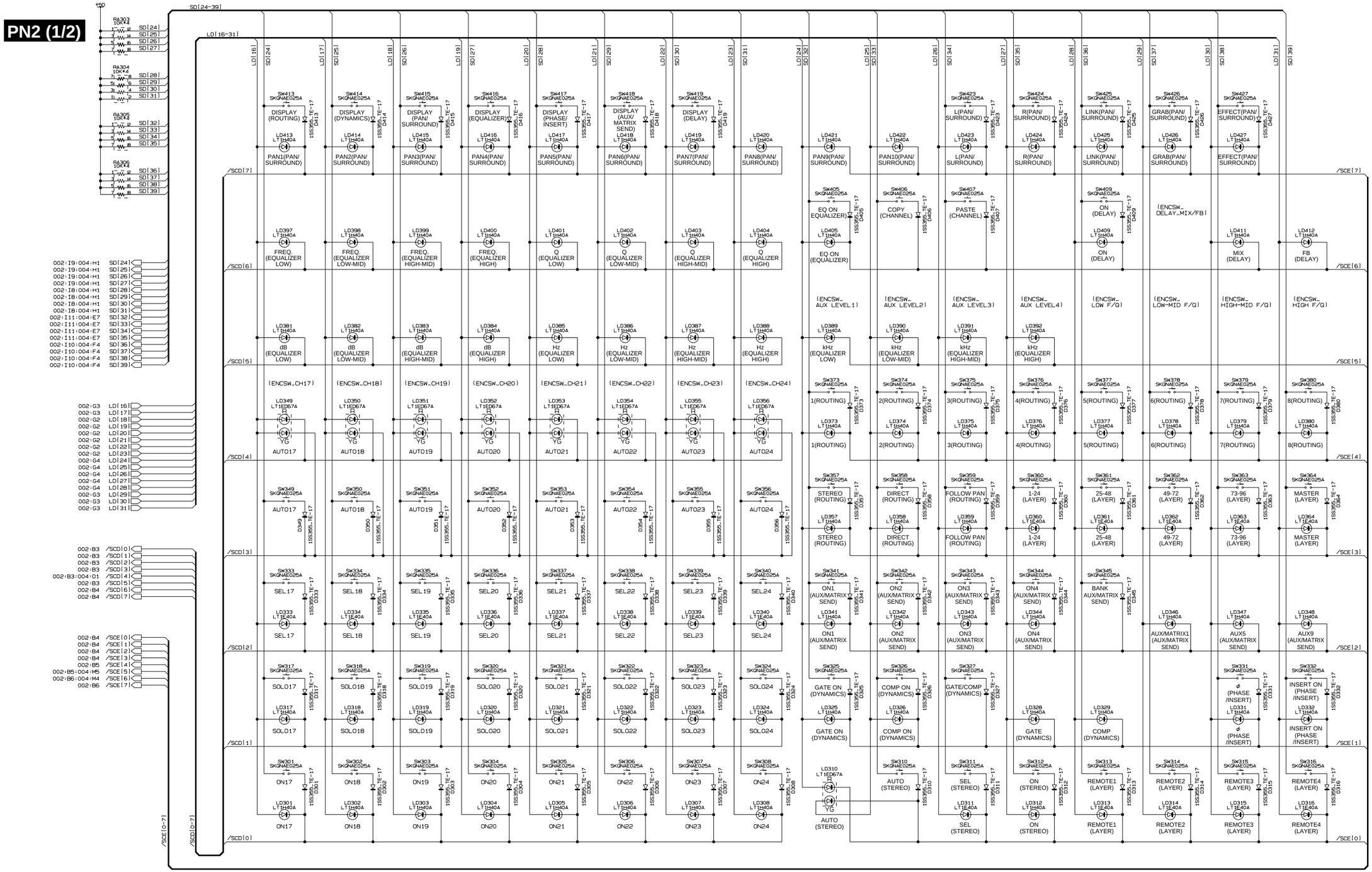
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

(セ) : **Ceramic Capacitor** (セラミックコンデンサー)

■ PN2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

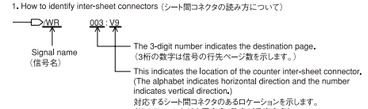
■ PN2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

PN2 (1/2)



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



LT1H40A: Yellow
LT1E40A: Yellow Green
LT1D40A: Red
LT1ED67A: Red/Yellow Green

ENCSW_: Encoder Switch
PAN/SURR_: PAN/SURROUND

■ PN2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

■ PN2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000

PN2 (1/2)

002:B3:003:08 /SCD[4]

SD[24] 002:I9:003:04
SD[25] 002:I9:003:04
SD[26] 002:I9:003:04
SD[27] 002:I9:003:04
SD[28] 002:I8:003:04
SD[29] 002:I8:003:05
SD[30] 002:I8:003:05
SD[31] 002:I8:003:05

CH17 EC301 EC12E2444400
CH18 EC302 EC12E2444400
CH19 EC303 EC12E2444400
CH20 EC304 EC12E2444400
CH21 EC305 EC12E2444400
CH22 EC306 EC12E2444400
CH23 EC307 EC12E2444400
CH24 EC308 EC12E2444400
GAIN (EQUALIZER LOW) EC309 EC12E2410401
GAIN (EQUALIZER LOW-MID) EC310 EC12E2410401
GAIN (EQUALIZER HIGH-MID) EC311 EC12E2410401
GAIN (EQUALIZER HIGH) EC312 EC12E2410401
ATT. (EQUALIZER) EC313 EC12E2410401
PAN/SURROUND EC314 EC12E2410401

ENC_CH17A ENC_CH17B ENC_CH18A ENC_CH18B ENC_CH19A ENC_CH19B ENC_CH20A ENC_CH20B ENC_CH21A ENC_CH21B ENC_CH22A ENC_CH22B ENC_CH23A ENC_CH23B ENC_CH24A ENC_CH24B ENC_LGA ENC_LGB ENC_LMGA ENC_LMGB ENC_HMGA ENC_HMGB ENC_HGA ENC_HGB ENC_ATTA ENC_ATTB ENC_PANA ENC_PANB

CN304 52044-4045

ENC_PANA 1
ENC_PANB 2
ENC_ATTA 3
ENC_ATTB 4
ENC_LFQA 5
ENC_LFQB 6
ENC_LMFQA 7
ENC_LMFQB 8
ENC_HMFQA 9
ENC_HMFQB 10
ENC_HFQA 11
ENC_HFQB 12
ENC_LGA 13
ENC_LGB 14
ENC_LMGA 15
ENC_LMGB 16
ENC_HMGA 17
ENC_HMGB 18
ENC_HGA 19
ENC_HGB 20
ENC_CH24A 21
ENC_CH24B 22
ENC_CH23A 23
ENC_CH23B 24
ENC_CH22A 25
ENC_CH22B 26
ENC_CH21A 27
ENC_CH21B 28
ENC_CH20A 29
ENC_CH20B 30
ENC_CH19A 31
ENC_CH19B 32
ENC_CH18A 33
ENC_CH18B 34
ENC_CH17A 35
ENC_CH17B 36
ENC_PWA 37
ENC_PWB 38
39
40

to SUB-CN113

PN2 (2/2)

PAN/SURROUND JOYSTICK

VR301 RKJXB1210 B10K x 2
CN305 52151-0410
+5A
JOY2
JOY1
AGND
1MAX
1C
1MIN
2MAX
2C
2MIN

to PN3-CN504

002:B6:003:09 /SCE[6]
002:B5:003:09 /SCE[5]

SD[36] 002:I10:003:05
SD[37] 002:I10:003:05
SD[38] 002:I10:003:05
SD[39] 002:I10:003:05

F/Q (EQUALIZER LOW) EC315 EC12E2444400
F/Q (EQUALIZER LOW-MID) EC316 EC12E2444400
F/Q (EQUALIZER HIGH-MID) EC317 EC12E2444400
F/Q (EQUALIZER HIGH) EC318 EC12E2444400
MIX/FB (DELAY) EC319 EC12E2444400

ENC_LFQA ENC_LFQB ENC_LMFQA ENC_LMFQB ENC_HMFQA ENC_HMFQB ENC_HFQA ENC_HFQB ENC_DELAYA ENC_DELAYB

SD[32] 002:I11:003:05
SD[33] 002:I11:003:05
SD[34] 002:I11:003:05
SD[35] 002:I11:003:05

LEVEL1 (AUX/MATRIX SEND) EC325 EC12E2444400
LEVEL2 (AUX/MATRIX SEND) EC326 EC12E2444400
LEVEL3 (AUX/MATRIX SEND) EC327 EC12E2444400
LEVEL4 (AUX/MATRIX SEND) EC328 EC12E2444400
THRESHOLD (DYNAMICS) EC320 EC12E2410401
RANGE/RATIO (DYNAMICS) EC321 EC12E2410401
ATTACK (DYNAMICS) EC322 EC12E2410401
DECAY/RELEASE (DYNAMICS) EC323 EC12E2410401
HOLD/GAIN (DYNAMICS) EC324 EC12E2410401
TIME (DELAY) EC329 EC12E2410401

ENC_THA ENC_THB ENC_RATIOA ENC_RATIOB ENC_ATACKA ENC_ATACKB ENC_RELA ENC_RELB ENC_GAINA ENC_GAINB ENC_AUX1A ENC_AUX1B ENC_AUX2A ENC_AUX2B ENC_AUX3A ENC_AUX3B ENC_AUX4A ENC_AUX4B ENC_DTIMEA ENC_DTIMEB

ENC_PWA 002:E12
ENC_PWB 002:E12
ENC_DELAYA 002:01
ENC_DELAYB 002:01
ENC_DTIMEA 002:01
ENC_DTIMEB 002:01
ENC_AUX4A 002:01
ENC_AUX4B 002:01
ENC_AUX3A 002:01
ENC_AUX3B 002:02
ENC_AUX2A 002:02
ENC_AUX2B 002:02
ENC_AUX1A 002:02
ENC_AUX1B 002:02
ENC_GAINA 002:02
ENC_GAINB 002:02
ENC_RELA 002:02
ENC_RELB 002:02
ENC_ATACKA 002:02
ENC_ATACKB 002:02
ENC_RATIOA 002:02
ENC_RATIOB 002:02
ENC_THA 002:02
ENC_THB 002:03

LD[32-47]

002:G5 LD[32]
002:G5 LD[33]
002:G5 LD[34]
002:G5 LD[35]
002:G5 LD[36]
002:G5 LD[37]
002:G5 LD[38]
002:G4 LD[39]
002:F6 LD[40]
002:F6 LD[41]
002:F6 LD[42]
002:F6 LD[43]
002:F6 LD[44]
002:F6 LD[45]
002:F6 LD[46]
002:F6 LD[47]

EQUALIZER LOW LD429 LB-2030L
EQUALIZER LOW-MID LD430 LB-2030L
EQUALIZER HIGH-MID LD431 LB-2030L
EQUALIZER HIGH LD432 LB-2030L

002:B6 /SCF[0]
002:B6 /SCF[1]
002:B7 /SCF[2]
002:B7 /SCF[3]
002:B7 /SCF[4]
002:B7 /SCF[5]

002:B7 /SCG[0]
002:B7 /SCG[1]
002:B8 /SCG[2]
002:B8 /SCG[3]
002:B8 /SCG[4]
002:B8 /SCG[5]

/SCF[0-5]
/SCG[0-5]

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

/WR 003 : V9

Signal name (信号名)

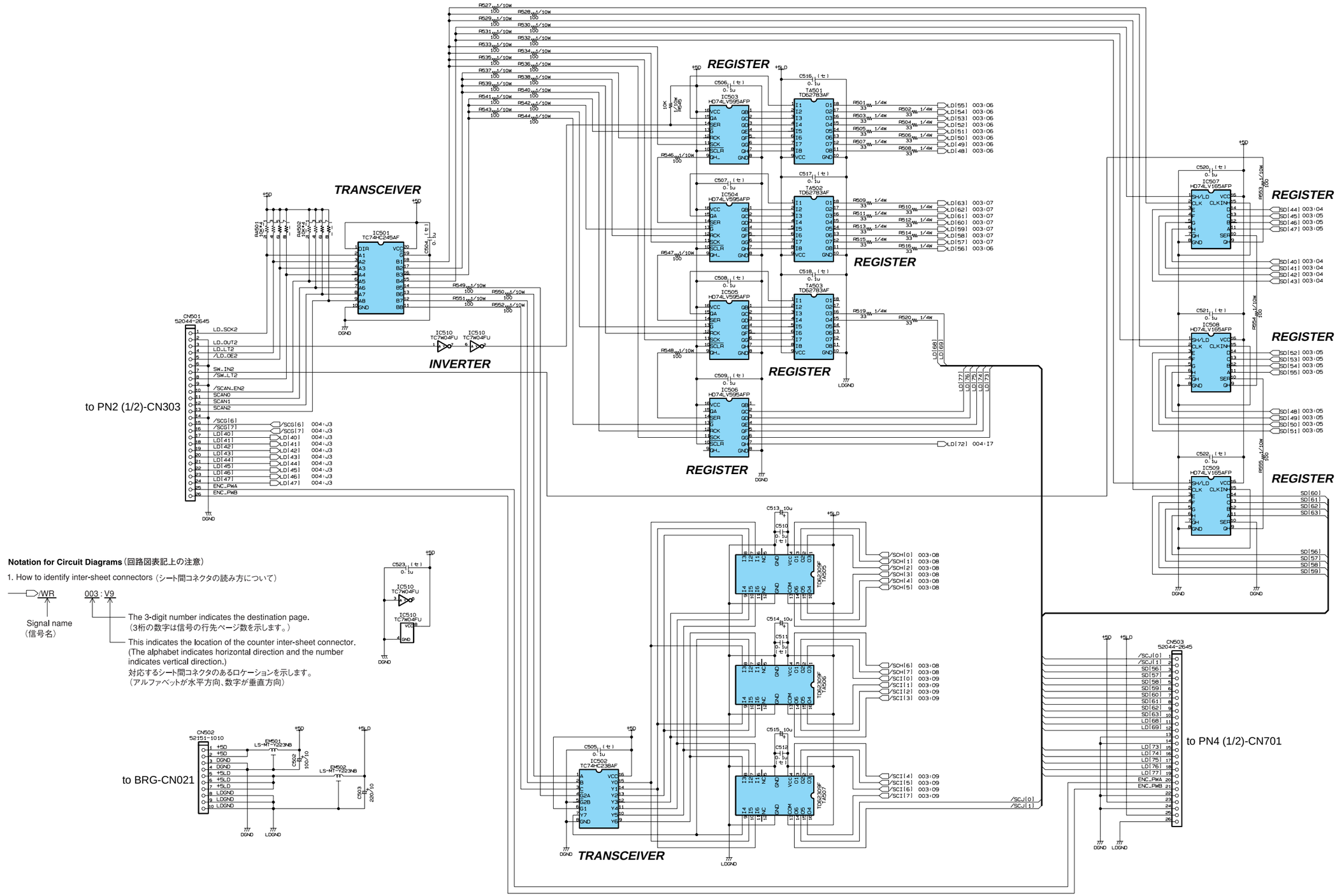
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

■ PN2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ PN3 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — 003 : V9

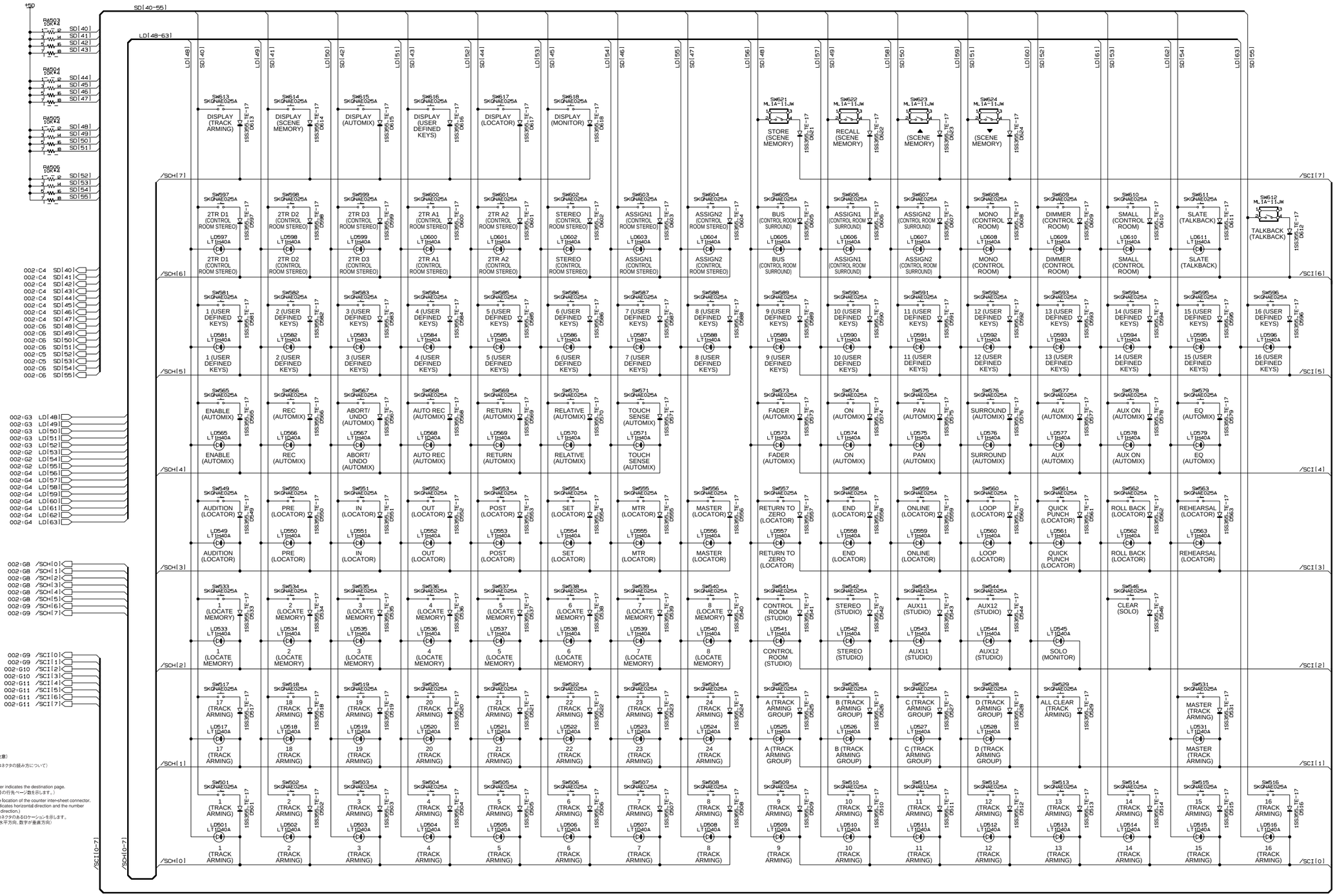
Signal name（信号名）

The 3-digit number indicates the destination page.
（3桁の数字は信号の行先ページ数を示します。）

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
（アルファベットが水平方向、数字が垂直方向）

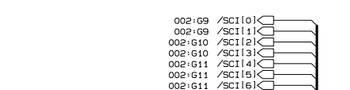
■ PN3 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

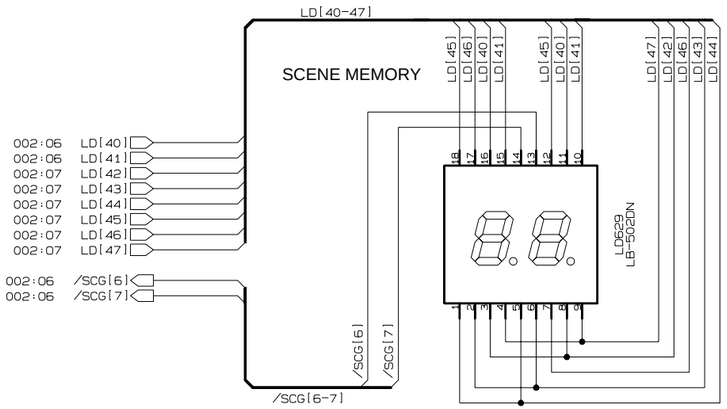


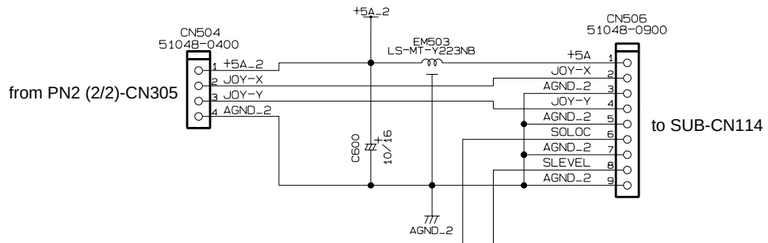
TA_ = TRACK ARMING
TAG_ = TRACK ARMING GROUP
LM_ = LOCATE MEMORY
UDK_ = USER DEFINED KEYS
CR-STE_ = CONTROL ROOM STEREO
CR-SURR_ = CONTROL ROOM SURROUND
CR_ = CONTROL ROOM
SCENE_ = SCENE MEMORY

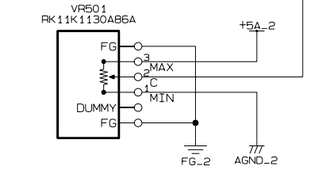
LT1H40A: Yellow
LT1E40A: Yellow Green
LT1D40A: Red

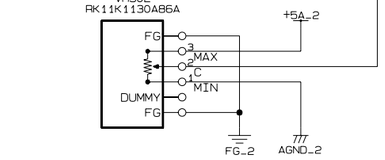
■ PN3 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

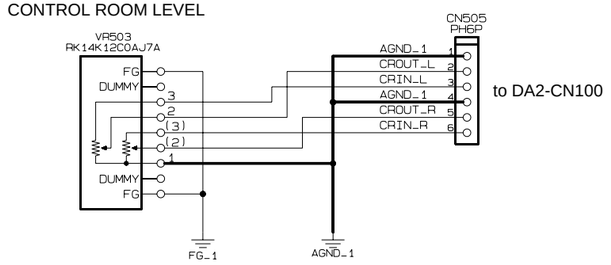
■ PN3 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

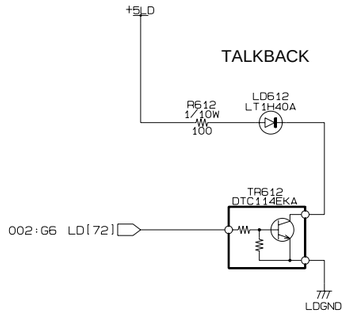






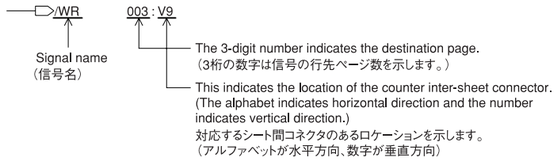






Notation for Circuit Diagrams（回路図表記上の注意）

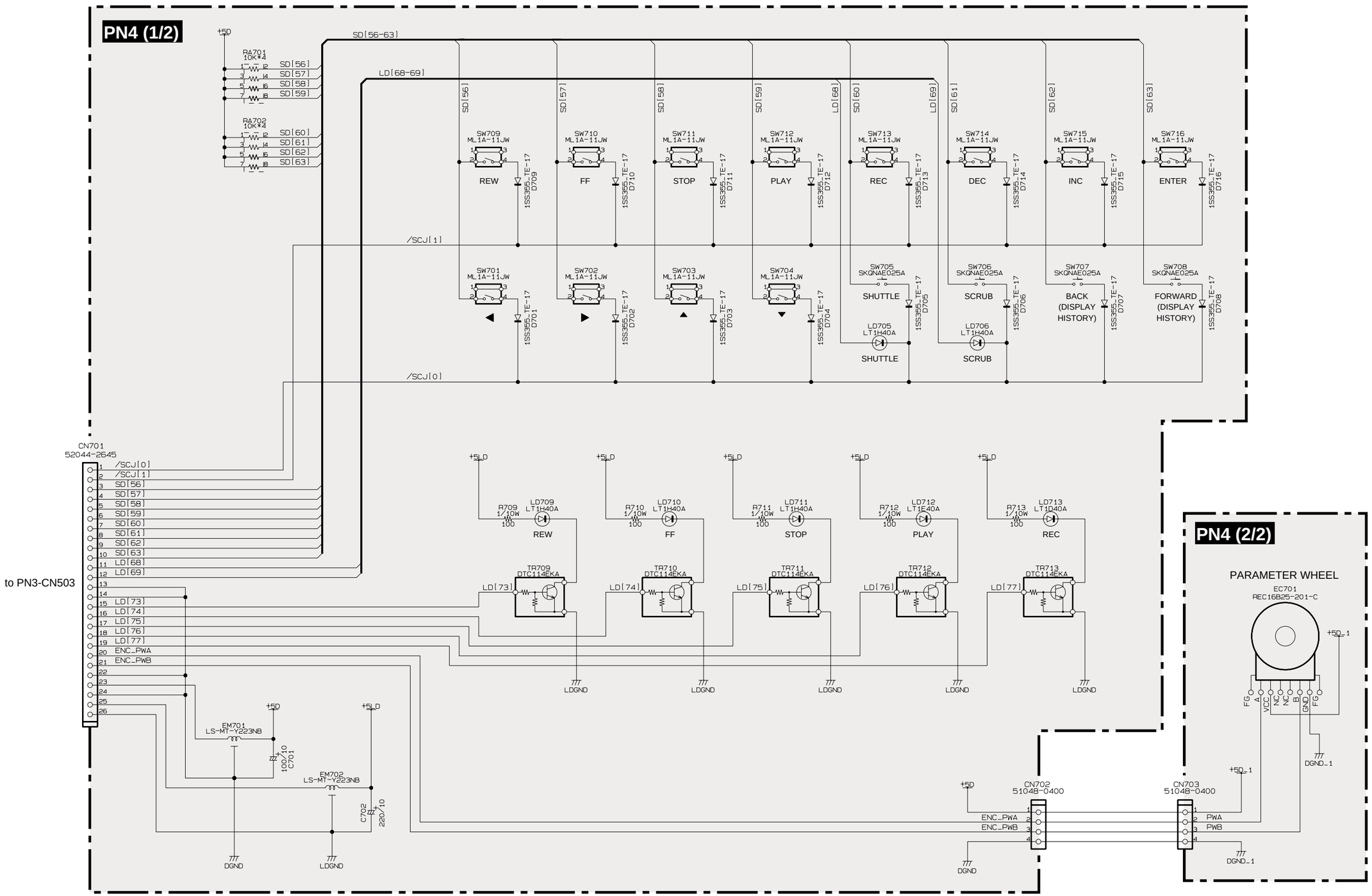
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ PN3 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ PN4 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

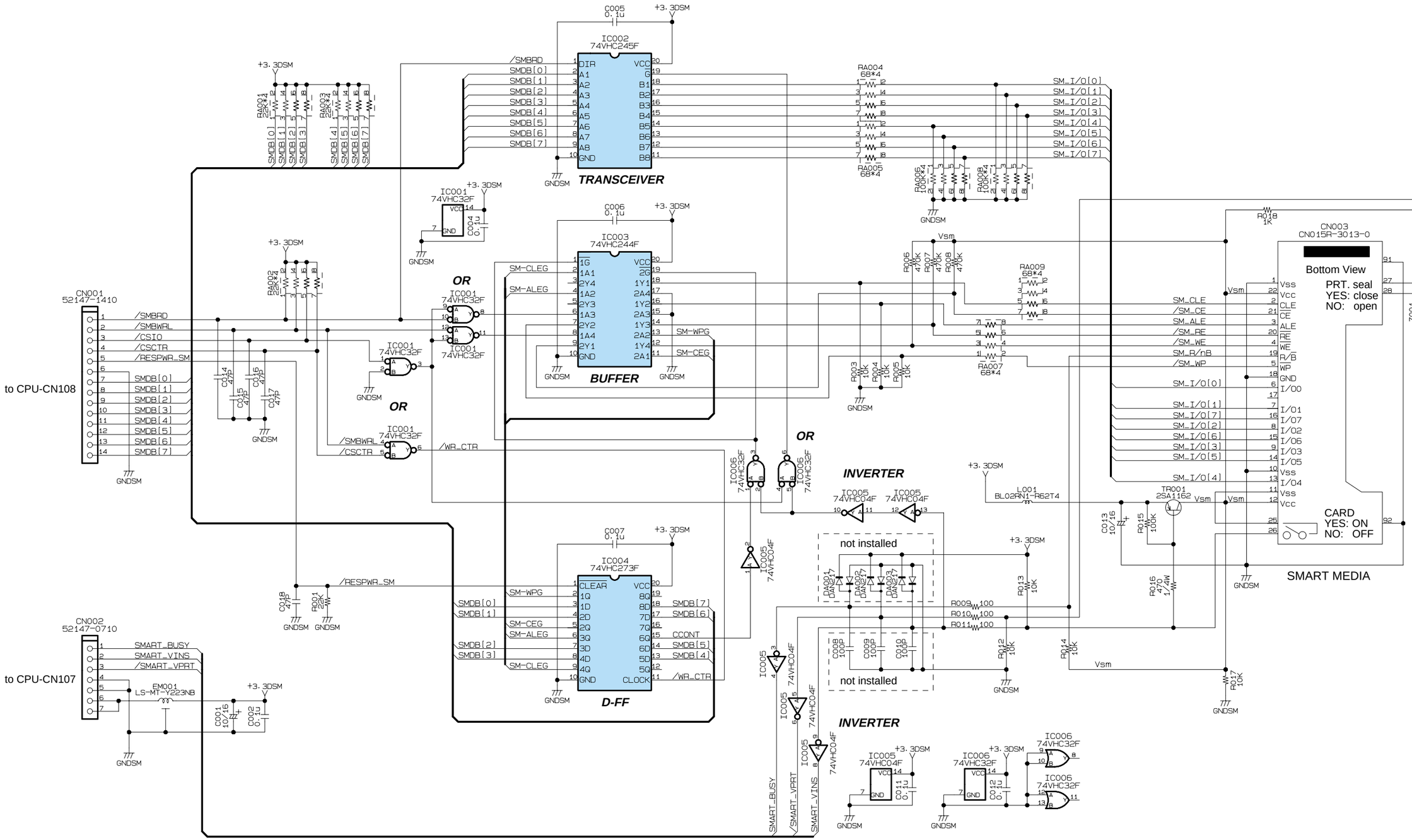


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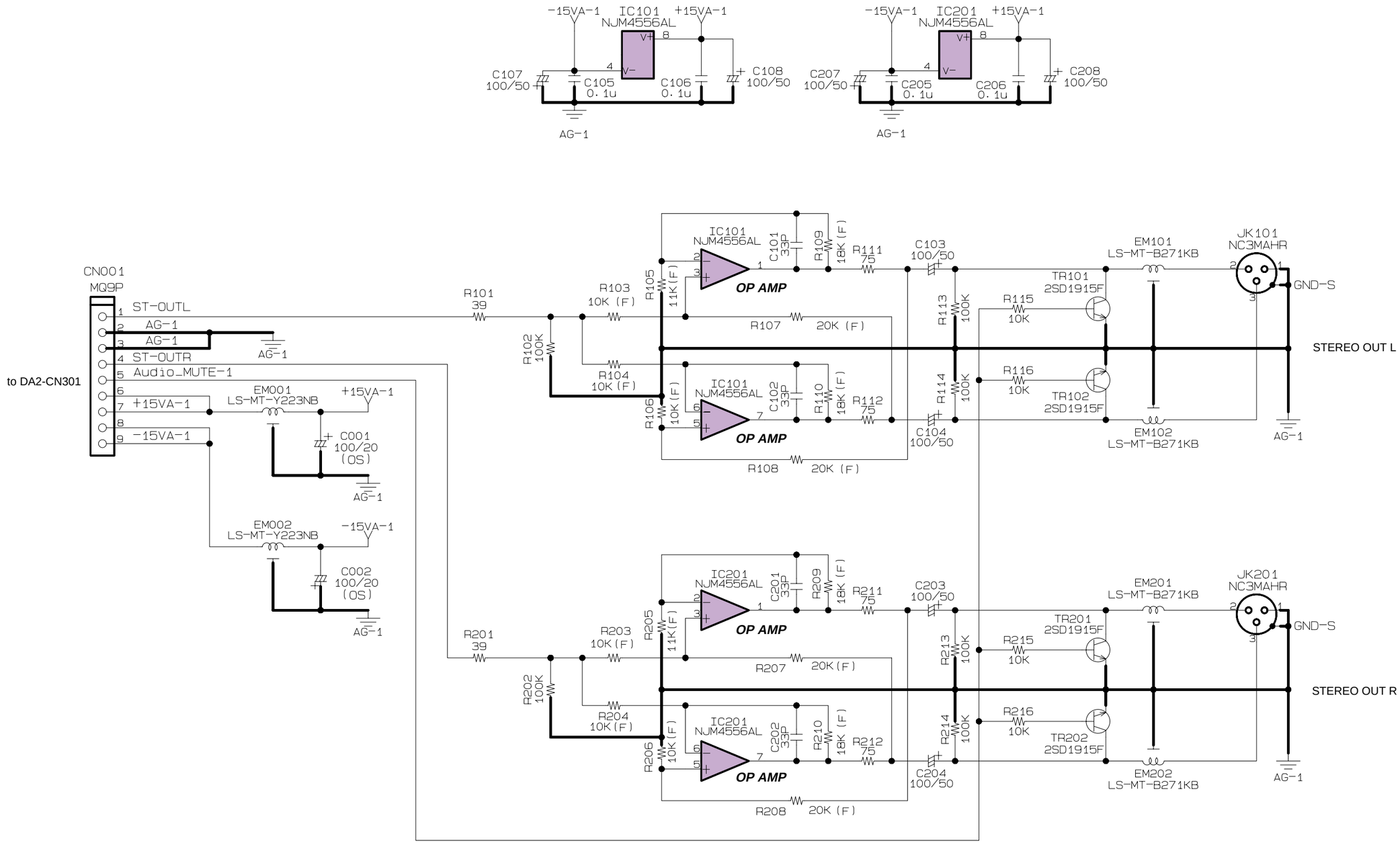
LT1H40A: Yellow
LT1E40A: Yellow Green
LT1D40A: Red

■ PN4 OVERALL CIRCUIT DIAGRAM (DM2000)

■ DS OVERALL CIRCUIT DIAGRAM (DM2000)



■ ST OVERALL CIRCUIT DIAGRAM (DM2000)

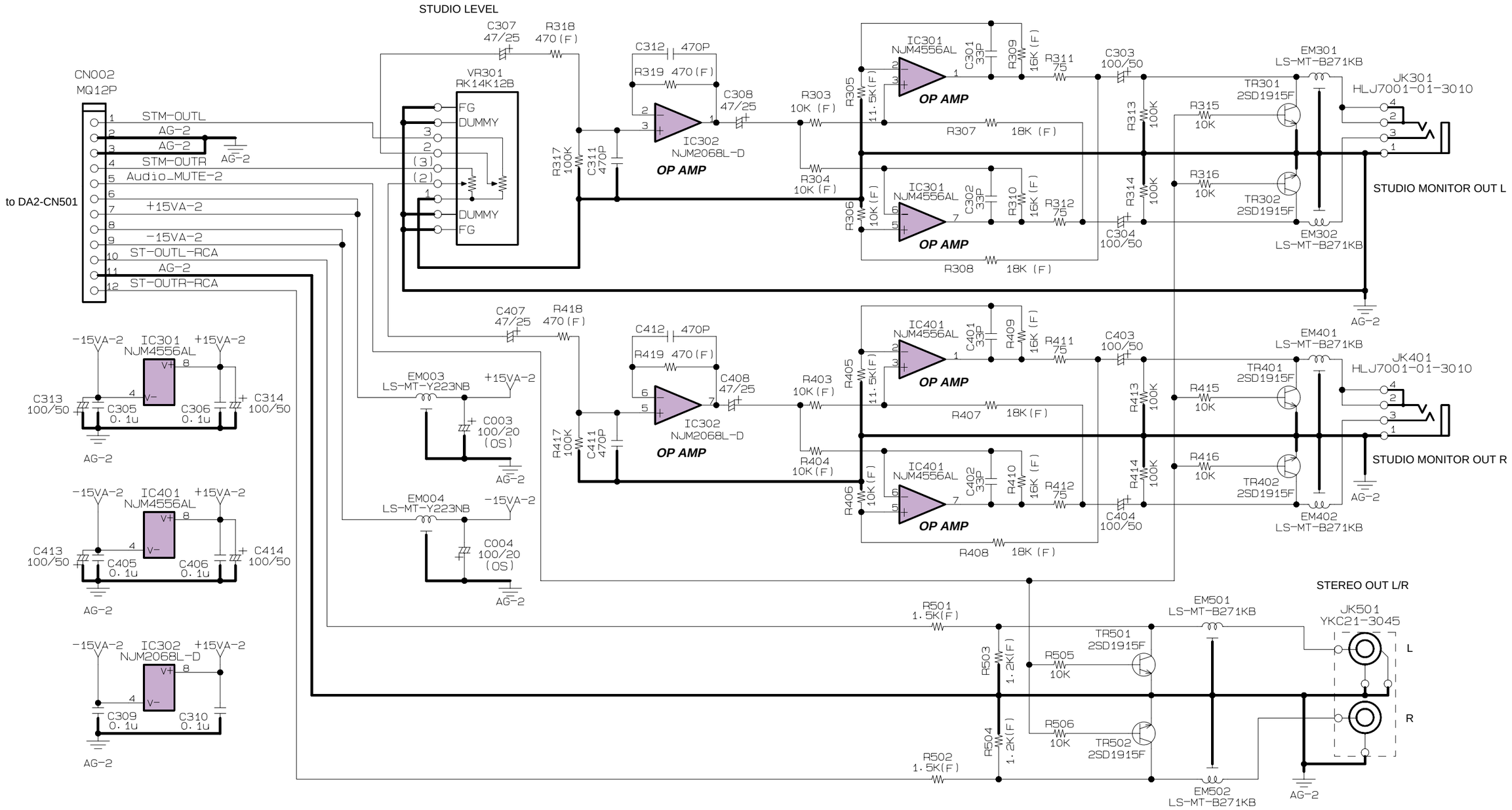


(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

■ ST OVERALL CIRCUIT DIAGRAM (DM2000)

■ STD OVERALL CIRCUIT DIAGRAM (DM2000)



(F) : **Metal Film Resistor (金属被膜抵抗)**

(OS) : **Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)**

■ SUB OVERALL CIRCUIT DIAGRAM 002 (DM2000)

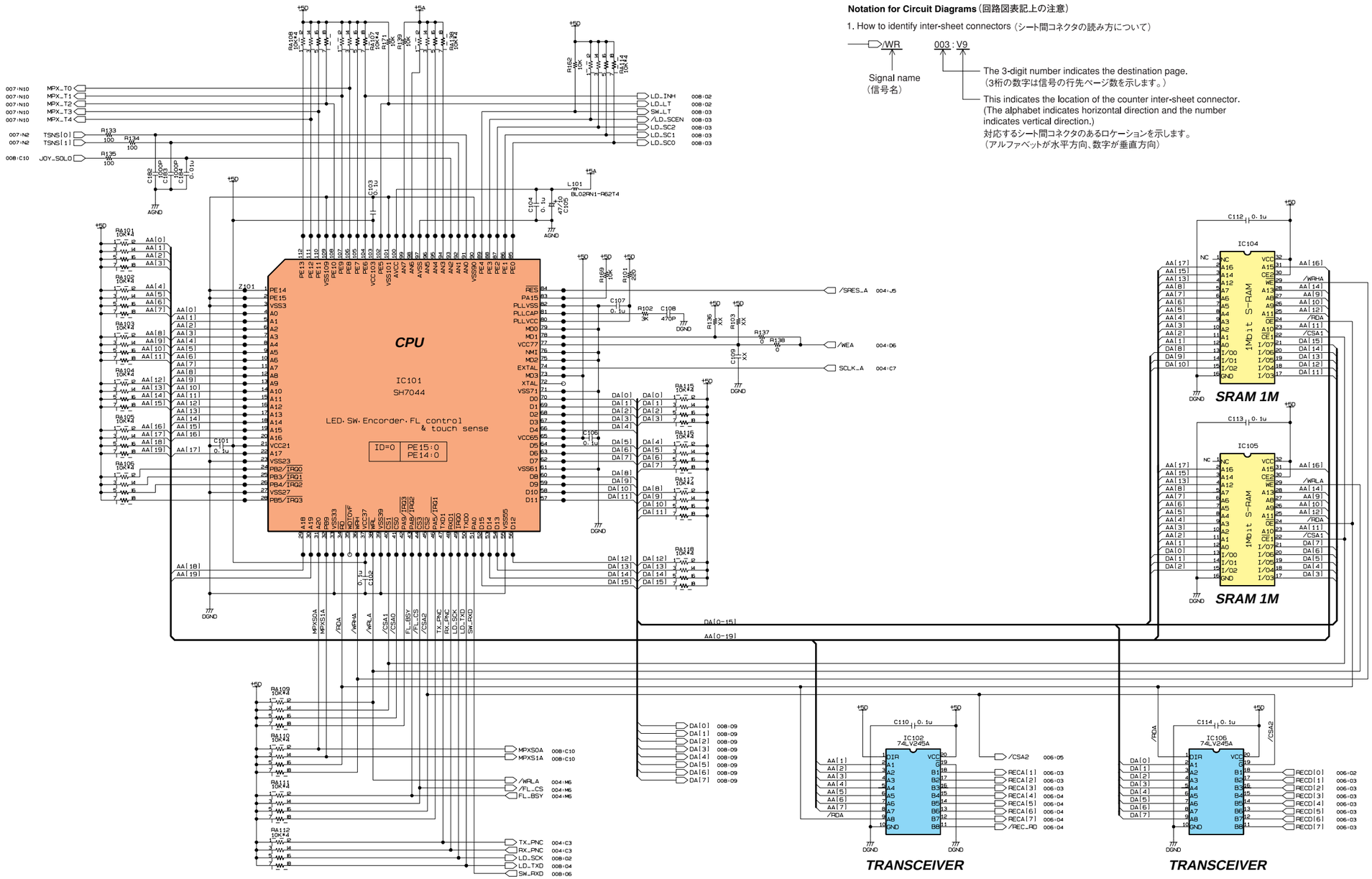
DM2000

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

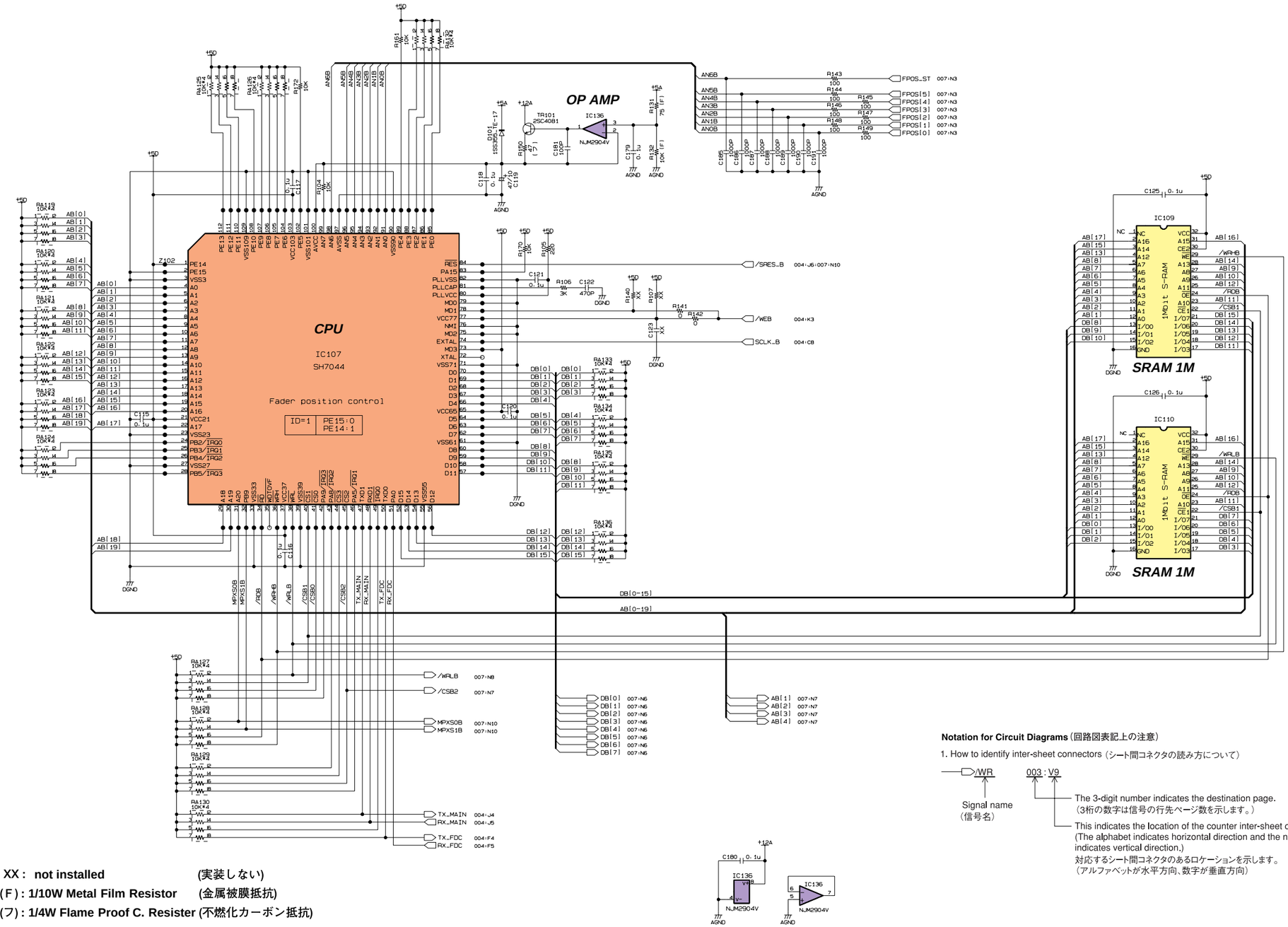
/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）



■ SUB OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ SUB OVERALL CIRCUIT DIAGRAM 003 (DM2000)



XX : not installed (実装しない)

(F) : 1/10W Metal Film Resistor (金属被膜抵抗)

(フ) : 1/4W Flame Proof C. Resister (不燃化カーボン抵抗)

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

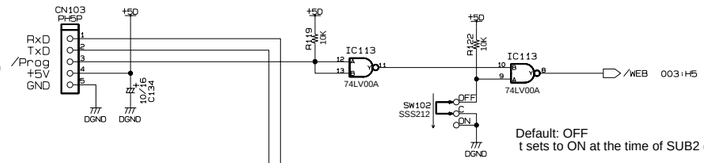
/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ SUB OVERALL CIRCUIT DIAGRAM 004 (DM2000)

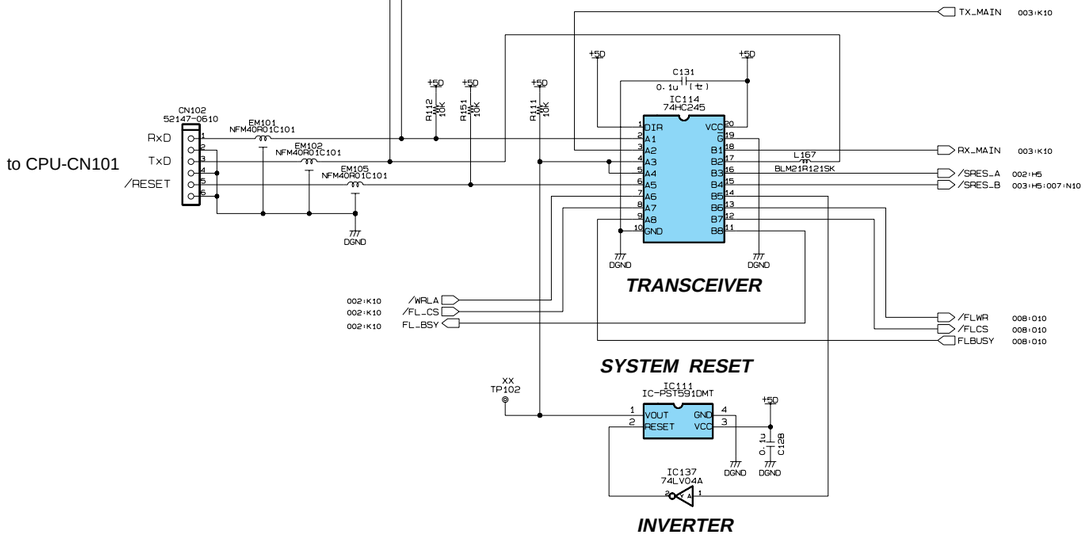
DM2000

not used
(for check)



Default: OFF
t sets to ON at the time of SUB2 (IC107) writing.

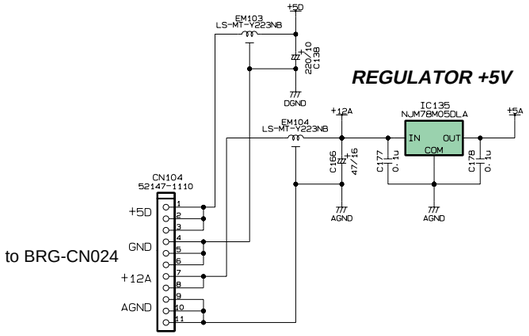
to CPU-CN101



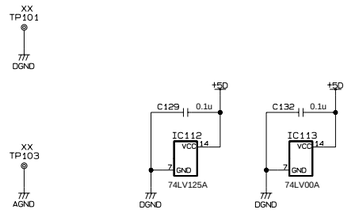
TRANSCEIVER

SYSTEM RESET

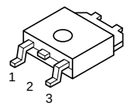
INVERTER



REGULATOR +5V



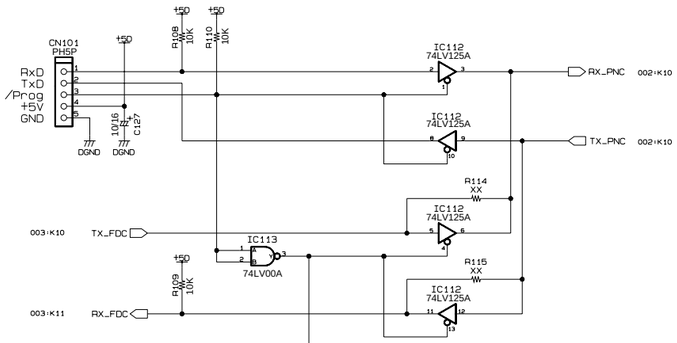
- NJM78M05DLA(TE1)
  (XS534A00)
  REGULATOR +5V



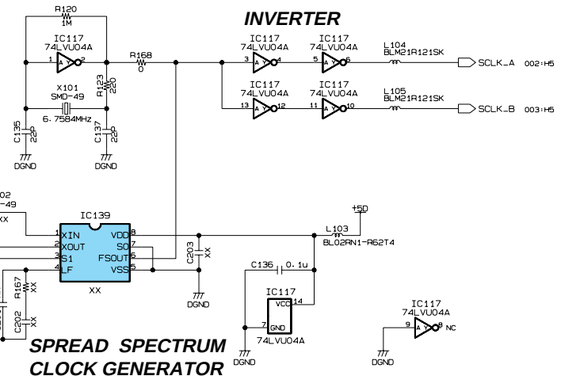
1: NPUT
2: GND
3: OUTPUT

XX : not installed (実装しない)

not used
(for DEBUG SUB1 (IC101))



Default: OFF
It sets to ON at the time of SUB1 (IC101) writing.

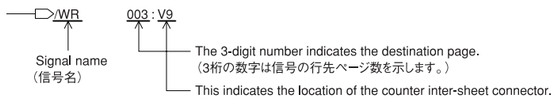


INVERTER

SPREAD SPECTRUM CLOCK GENERATOR

Notation for Circuit Diagrams（回路図表記上の注意）

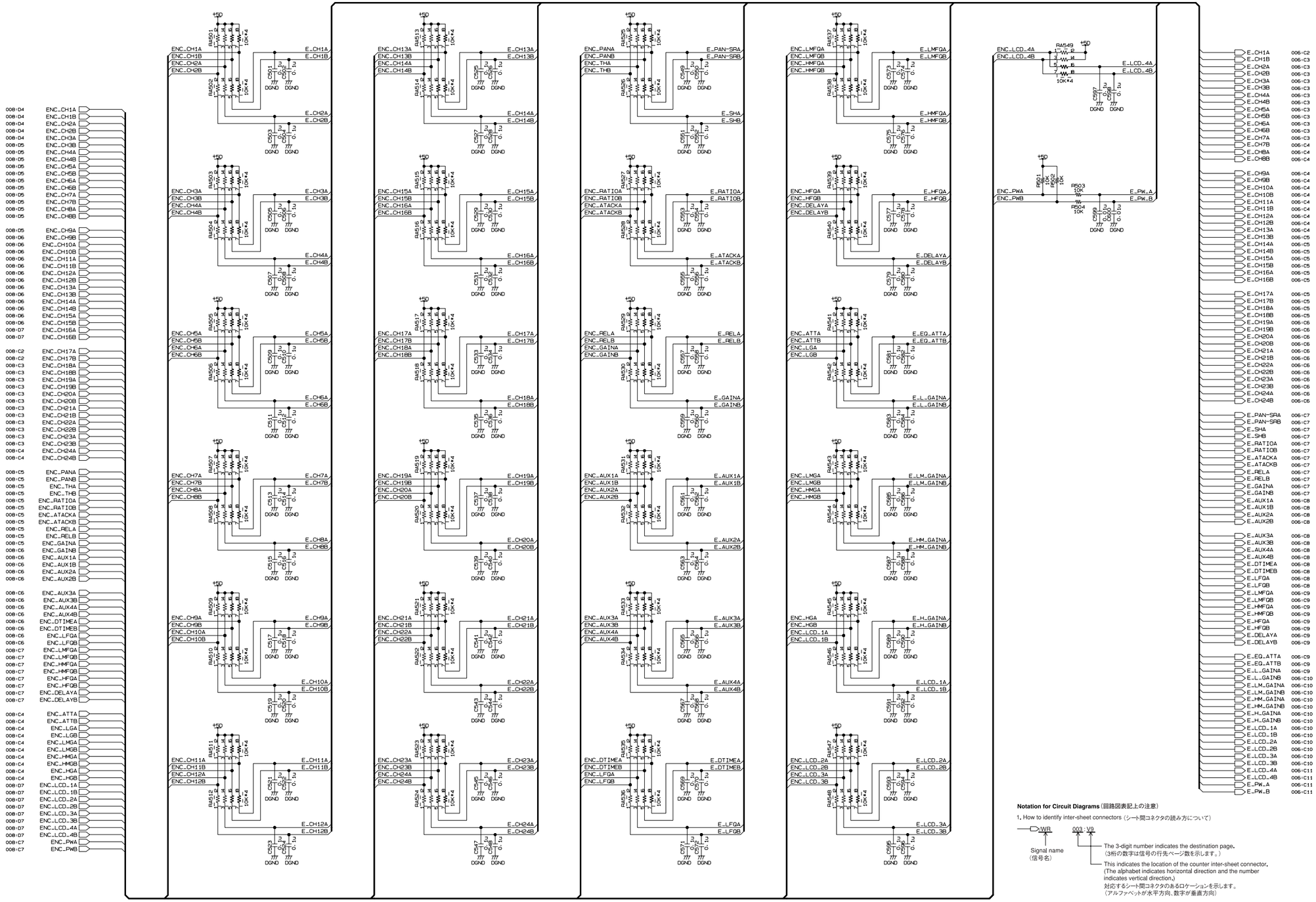
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ SUB OVERALL CIRCUIT DIAGRAM 004 (DM2000)

■ SUB OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000

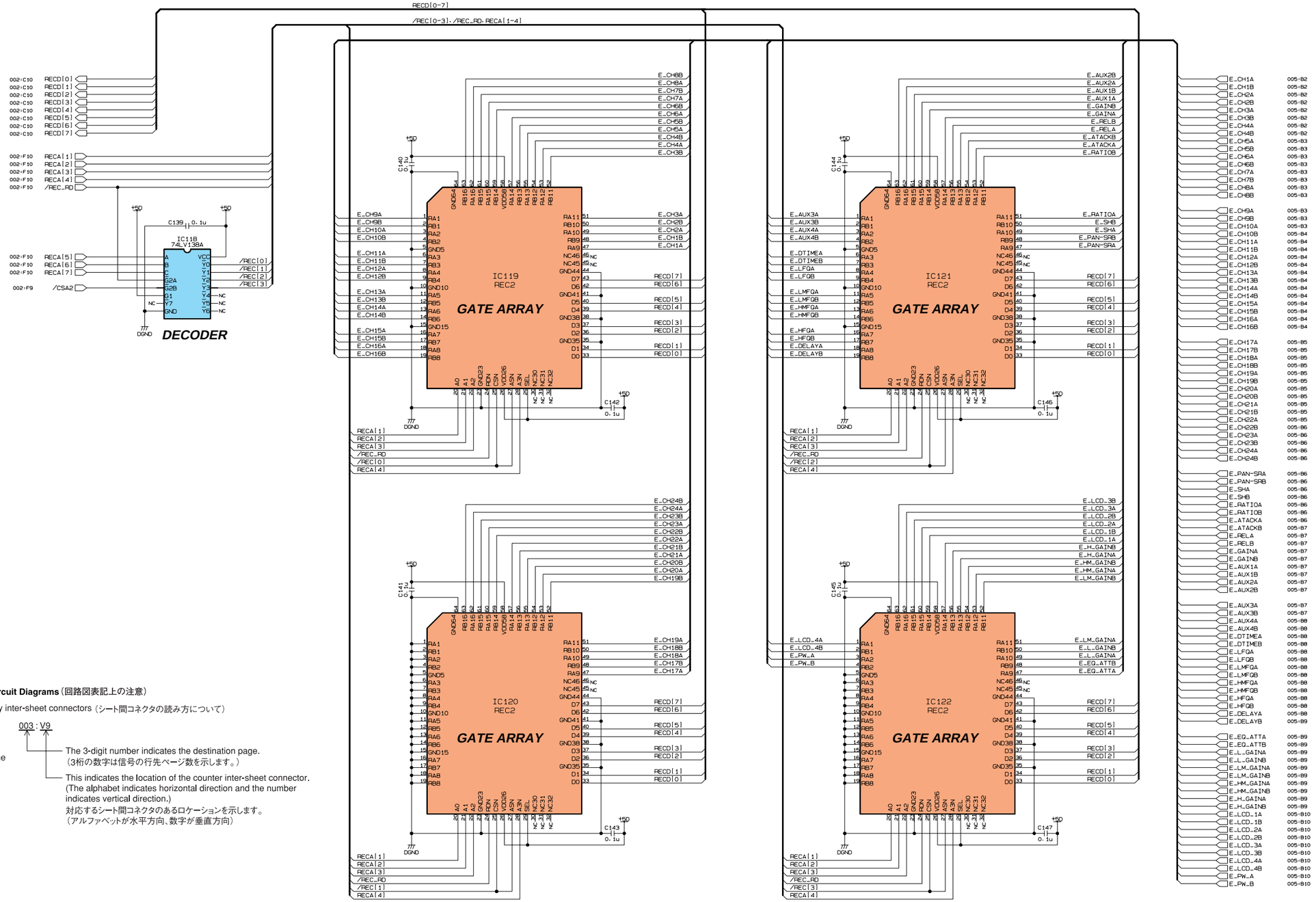


Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

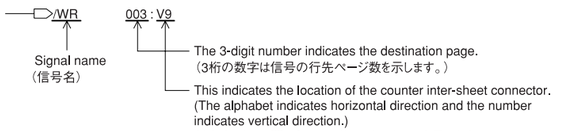
■ SUB OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



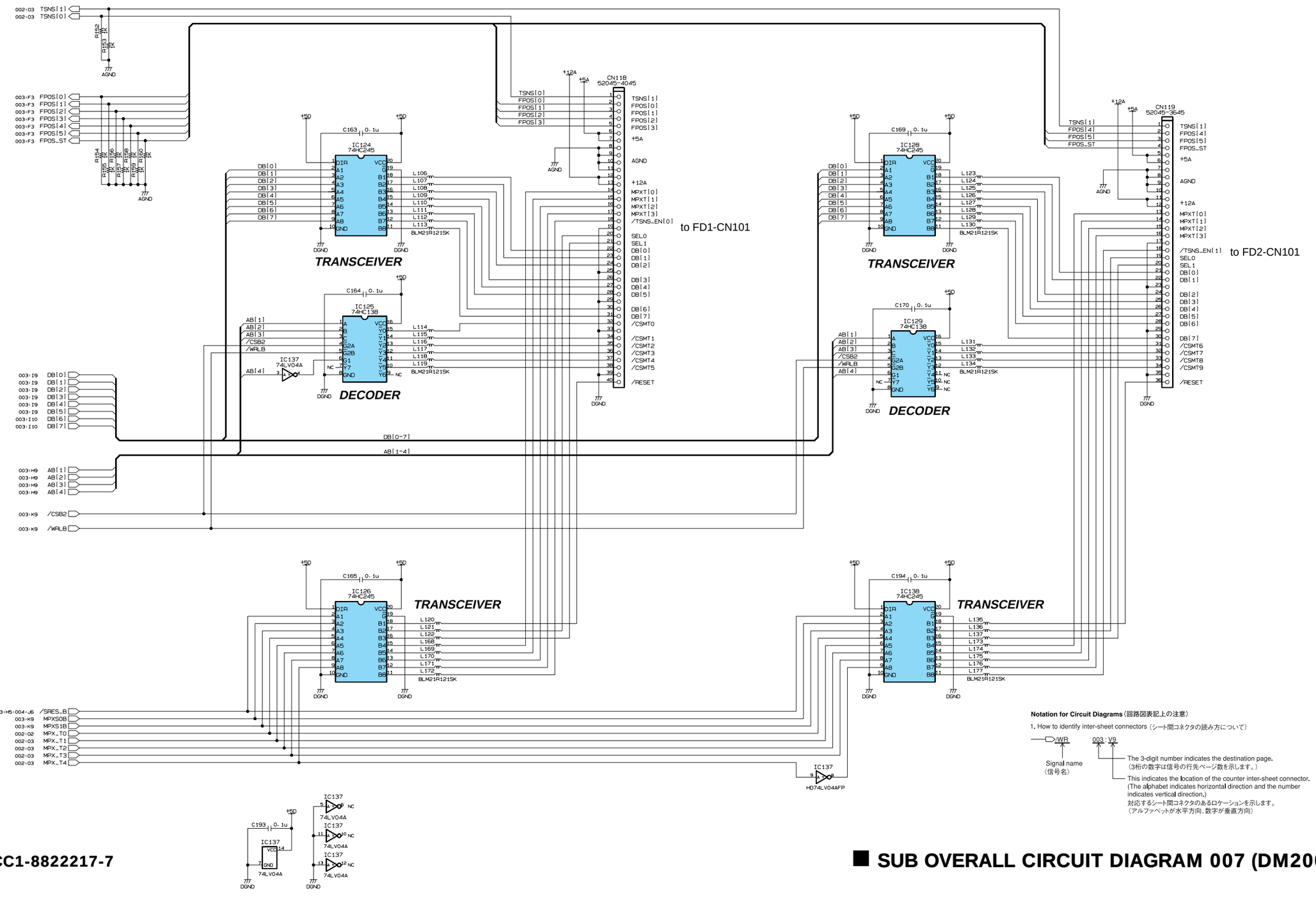
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ SUB OVERALL CIRCUIT DIAGRAM 006 (DM2000)

■ SUB OVERALL CIRCUIT DIAGRAM 007 (DM2000)



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

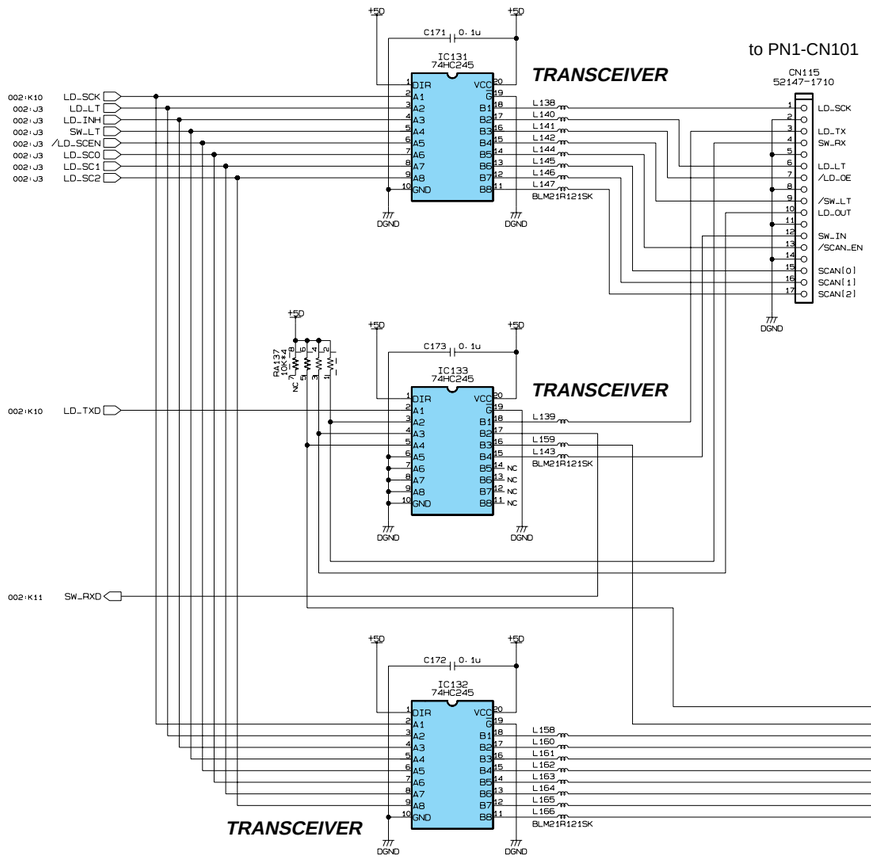
/WR — Signal name（信号名）

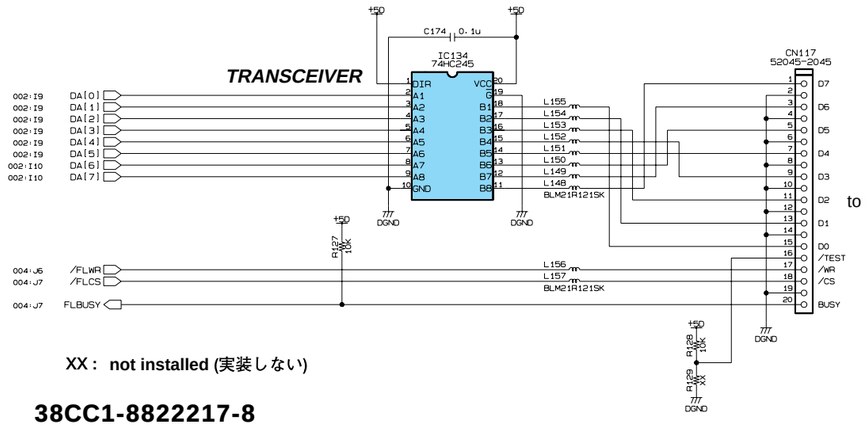
003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

■ SUB OVERALL CIRCUIT DIAGRAM 007 (DM2000)

■ SUB OVERALL CIRCUIT DIAGRAM 008 (DM2000)

DM2000





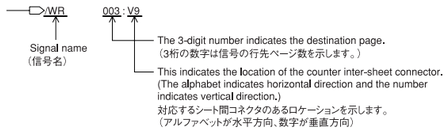
XX : **not installed (実装しない)**

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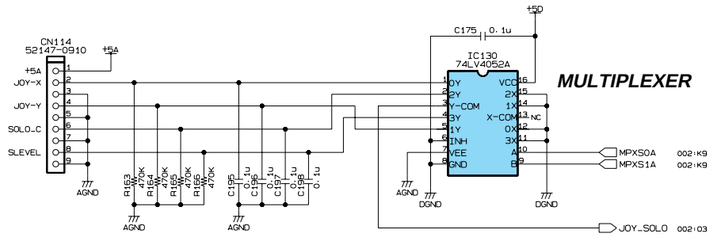
to FL Module (Master)-CN2

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



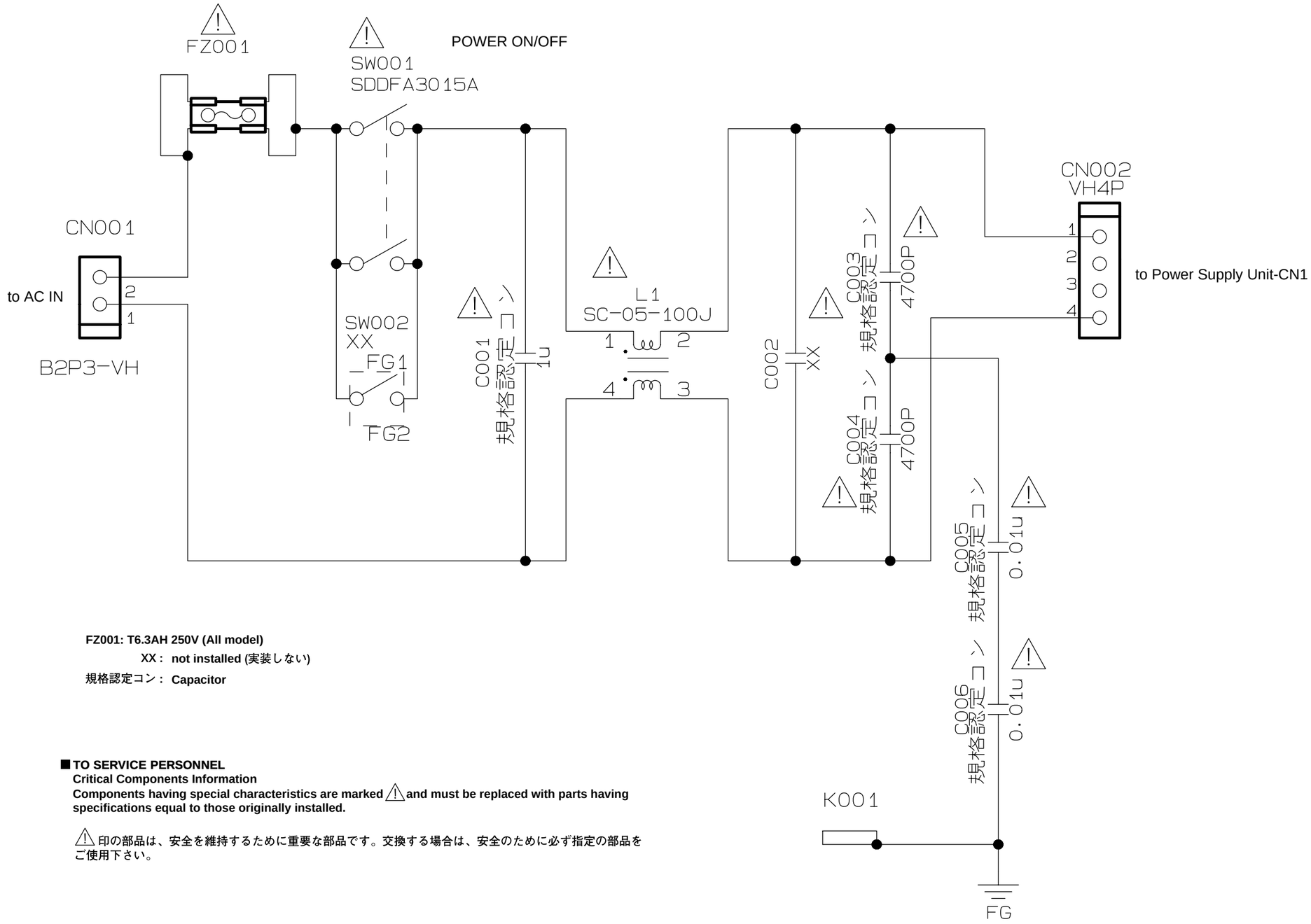
to PN3-CN506



■ SUB OVERALL CIRCUIT DIAGRAM 008 (DM2000)

■ SW OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



FZ001: T6.3AH 250V (All model)

XX : not installed (実装しない)

規格認定コン : Capacitor

■ TO SERVICE PERSONNEL

Critical Components Information

Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

⚠ 印の部品は、安全を維持するために重要な部品です。交換する場合は、安全のために必ず指定の部品をご使用下さい。

PEAK METER BRIDGE

MB2000

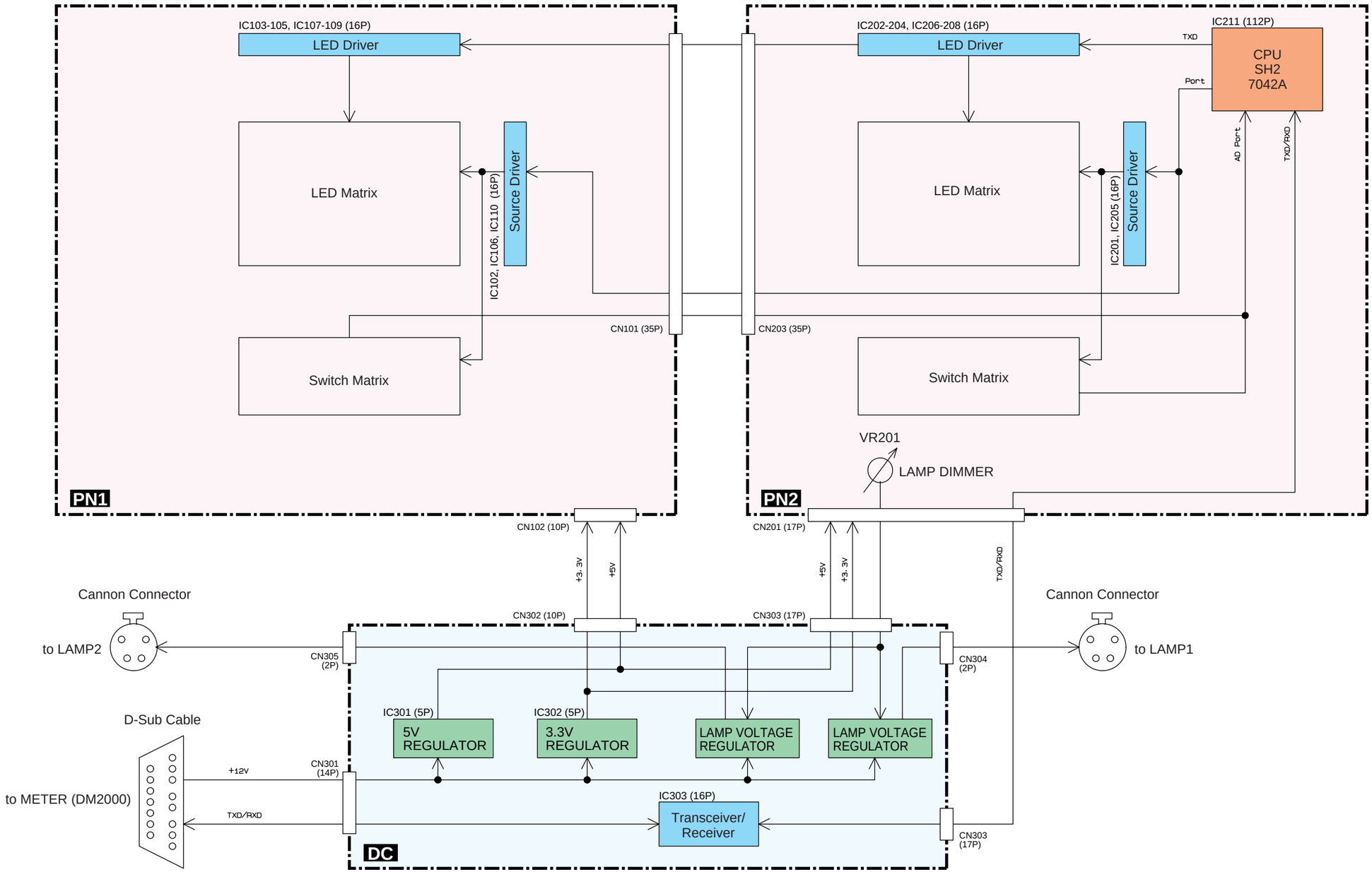
CIRCUIT DIAGRAM

■ CONTENTS

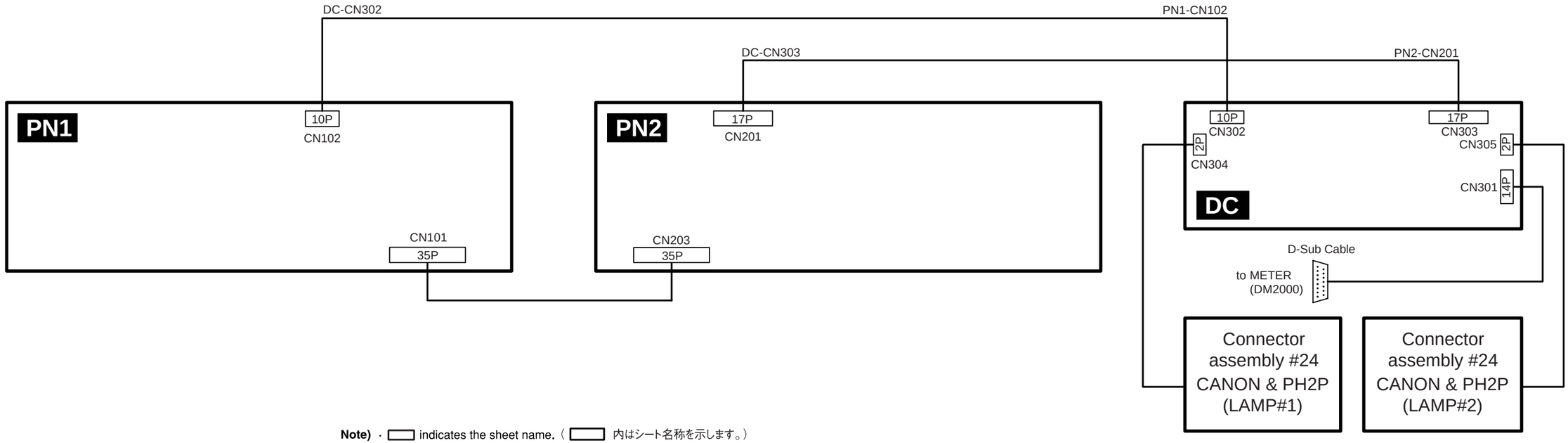
BLOCK DIAGRAM 3
OVERALL CONNECTOR CIRCUIT DIAGRAM 4
OVERALL CIRCUIT DIAGRAM
DC 5
PNCOM (PN1) (002, 003) 6
PNCOM (PN2) (004~007) 8

Note: See parts list for details of circuit board component parts.

■ BLOCK DIAGRAM (MB2000)



■ OVERALL CONNECTOR CIRCUIT DIAGRAM (MB2000)



Note) · ▭ indicates the sheet name.（ ▭ 内はシート名称を示します。）

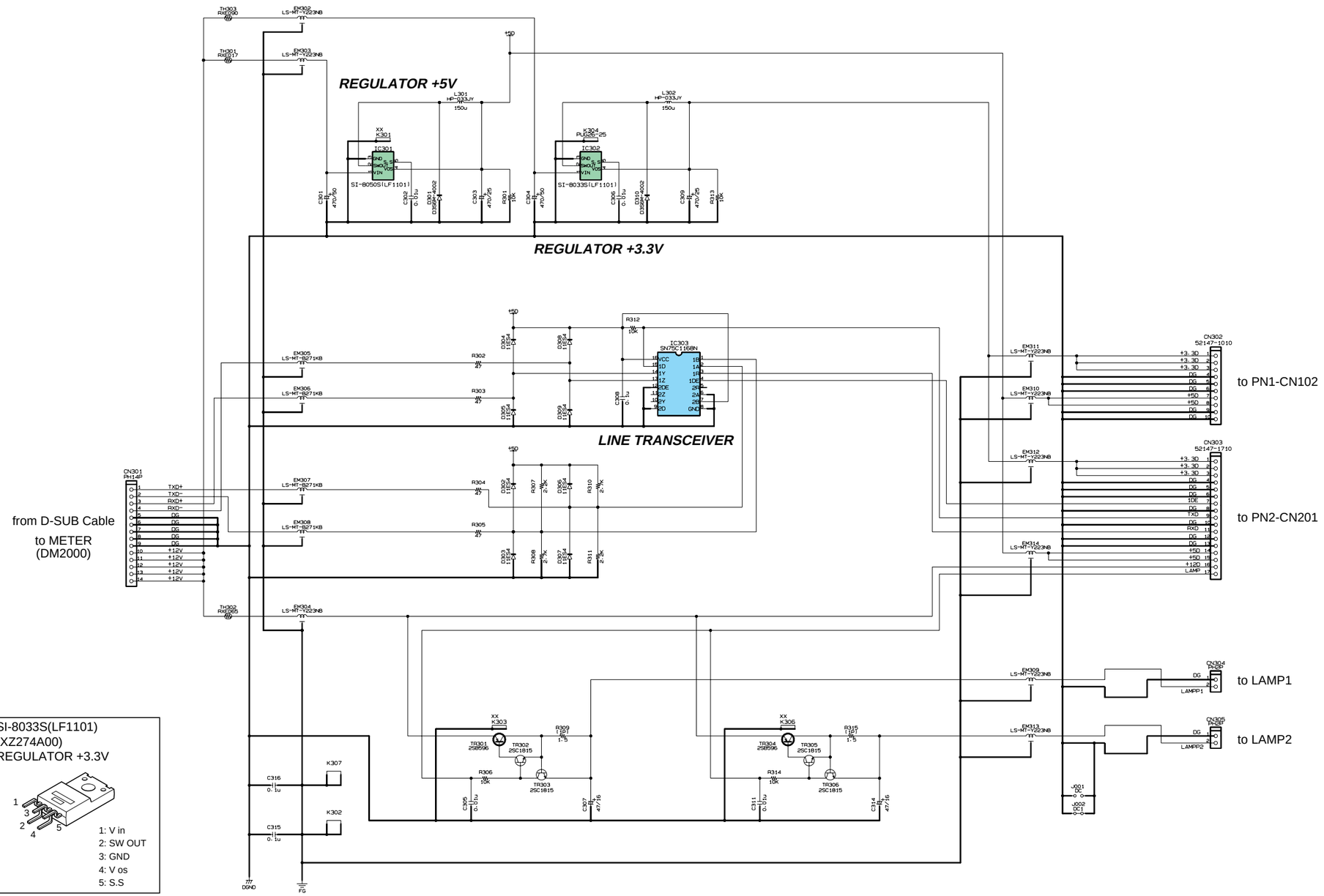
Pin 1 of each connector, except for CN101 and 203, is connected to pin 1 of the destination connector. Pin 1 of CN101 is connected to pin 35 of CN203.
（CN101、203以外全てのコネクタの1ピンは接続先コネクタの1ピンに接続されます。CN101の1ピンはCN203の35ピンに接続されます。）

Connectors are identified by the following items.
（コネクタの読み方については下記の通りとします。）

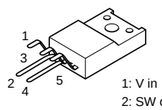
CN ***
- *** — Connector No.（コネクタ番号）
- ** P — Connector（コネクタ）
- P — Number of pins（Pin数）

■ OVERALL CONNECTOR CIRCUIT DIAGRAM (MB2000)

■ DC OVERALL CIRCUIT DIAGRAM (MB2000)



- SI-8050S(XT442A00) REGULATOR +5V



1: V in
2: SW out
3: GND
4: V os
5: S.S

- SI-8033S(LF1101) (XZ274A00) REGULATOR +3.3V

1: V in
2: SW OUT
3: GND
4: V os
5: S.S

XX : **not installed (実装しない)**

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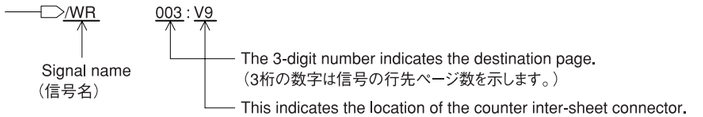
■ DC OVERALL CIRCUIT DIAGRAM (MB2000)

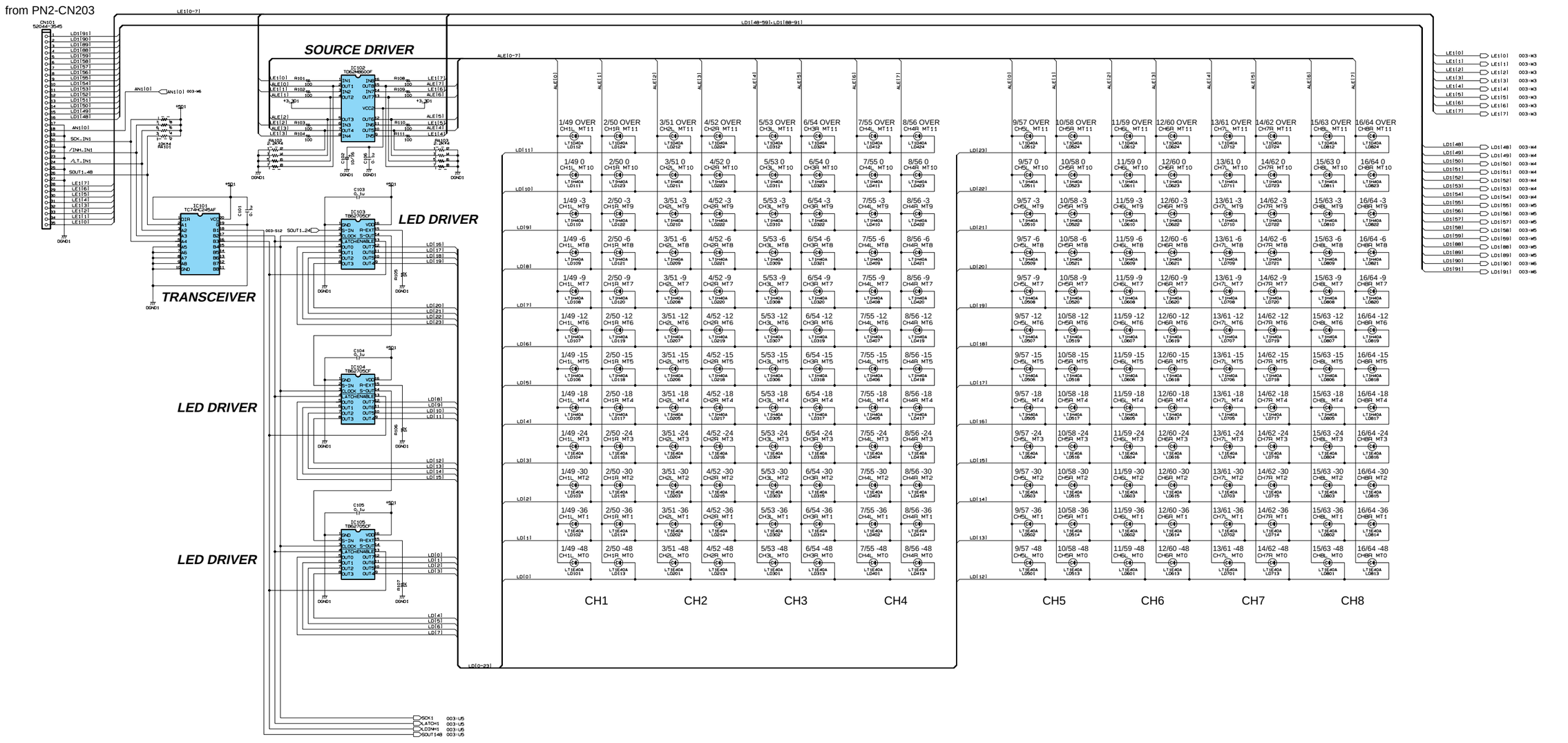
■ PNCOM (PN1) OVERALL CIRCUIT DIAGRAM 002 (MB2000)

MB2000

Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）





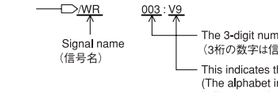
■ PNCOM (PN1) OVERALL CIRCUIT DIAGRAM 002 (MB2000)

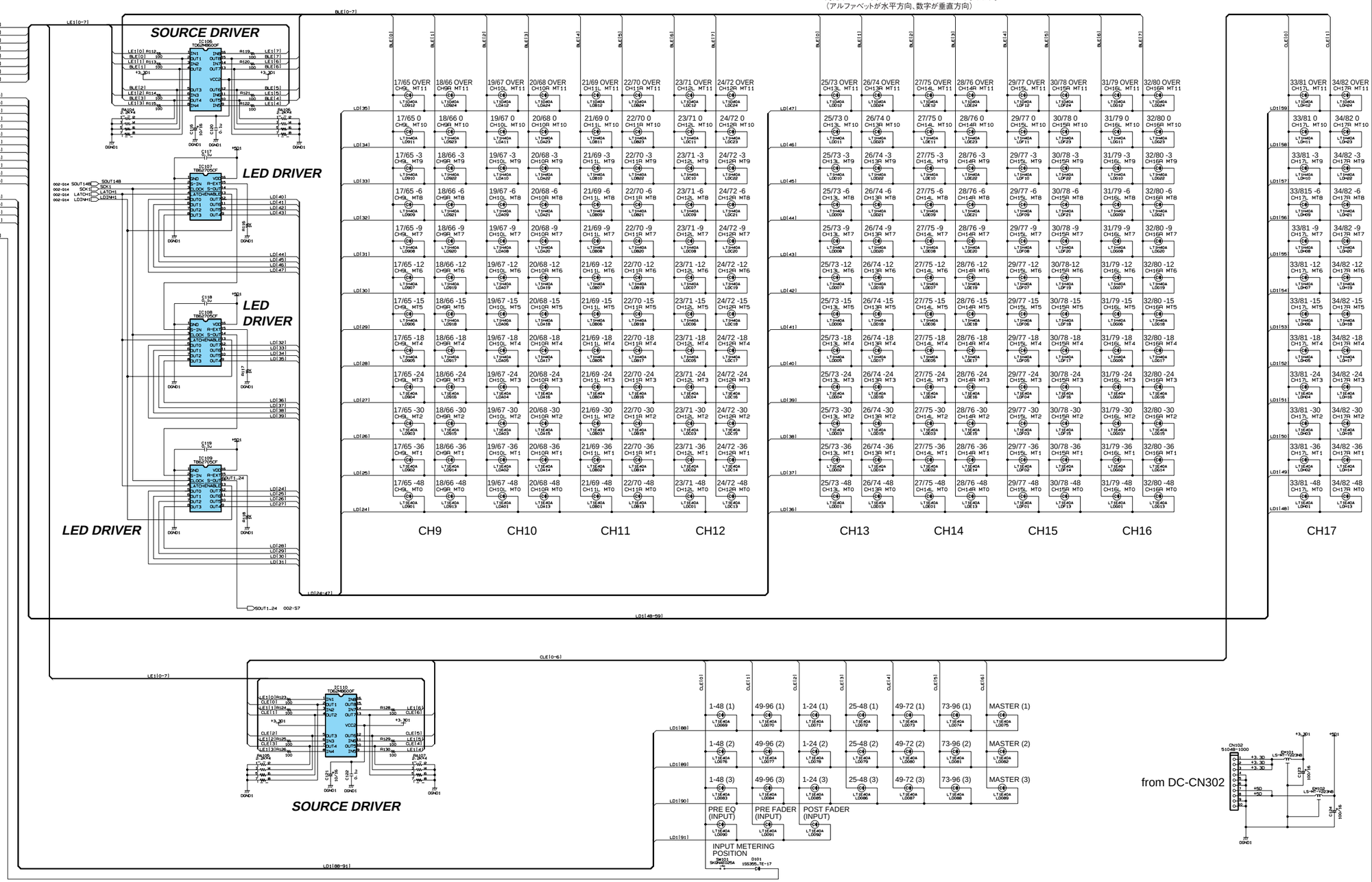
■ PNCOM (PN1) OVERALL CIRCUIT DIAGRAM 003 (MB2000)

MB2000

Notation for Circuit Diagrams（回路図表記上の注意）

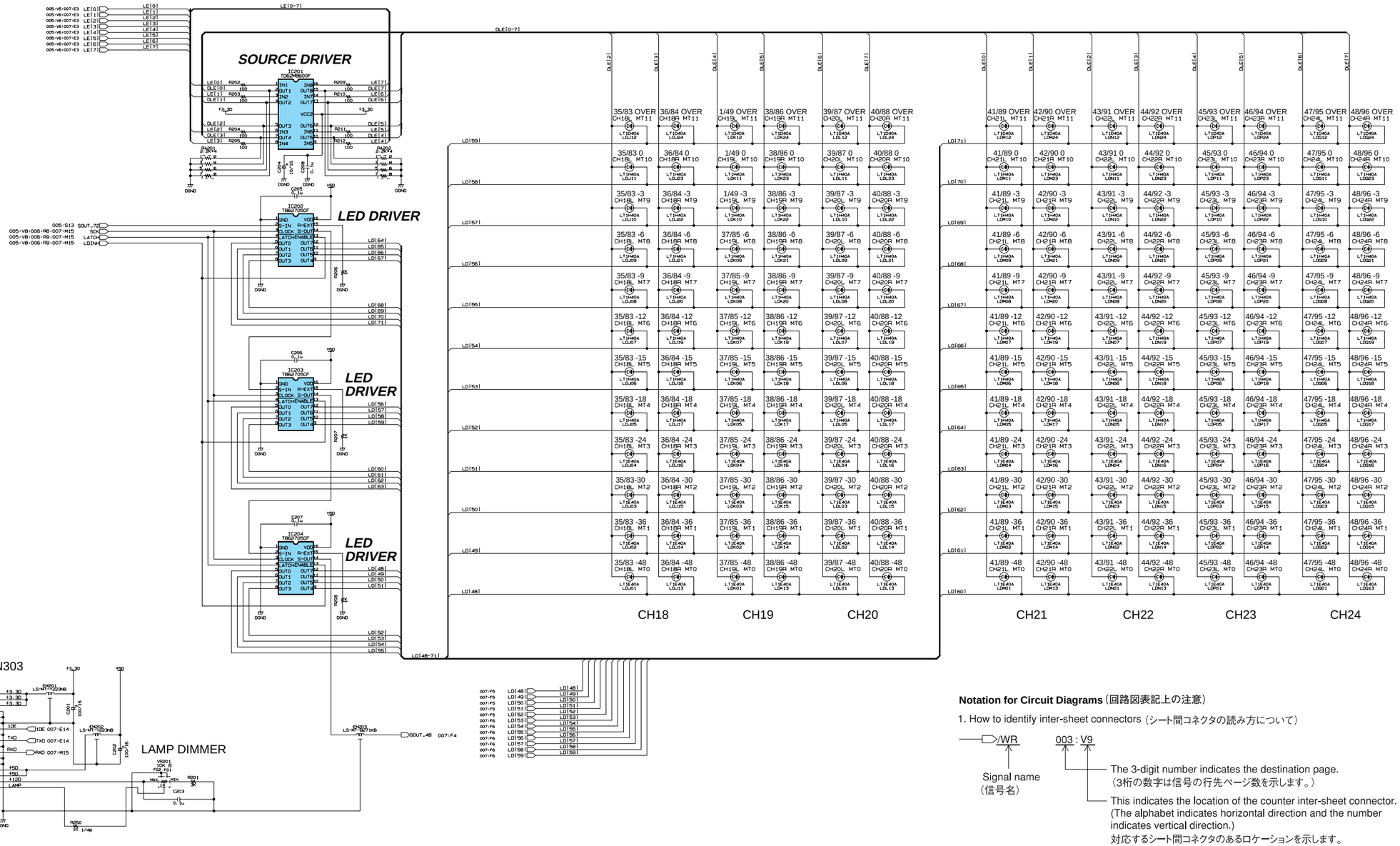
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）





■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 004 (MB2000)

MB2000



Notation for Circuit Diagrams（回路図表記上の注意）

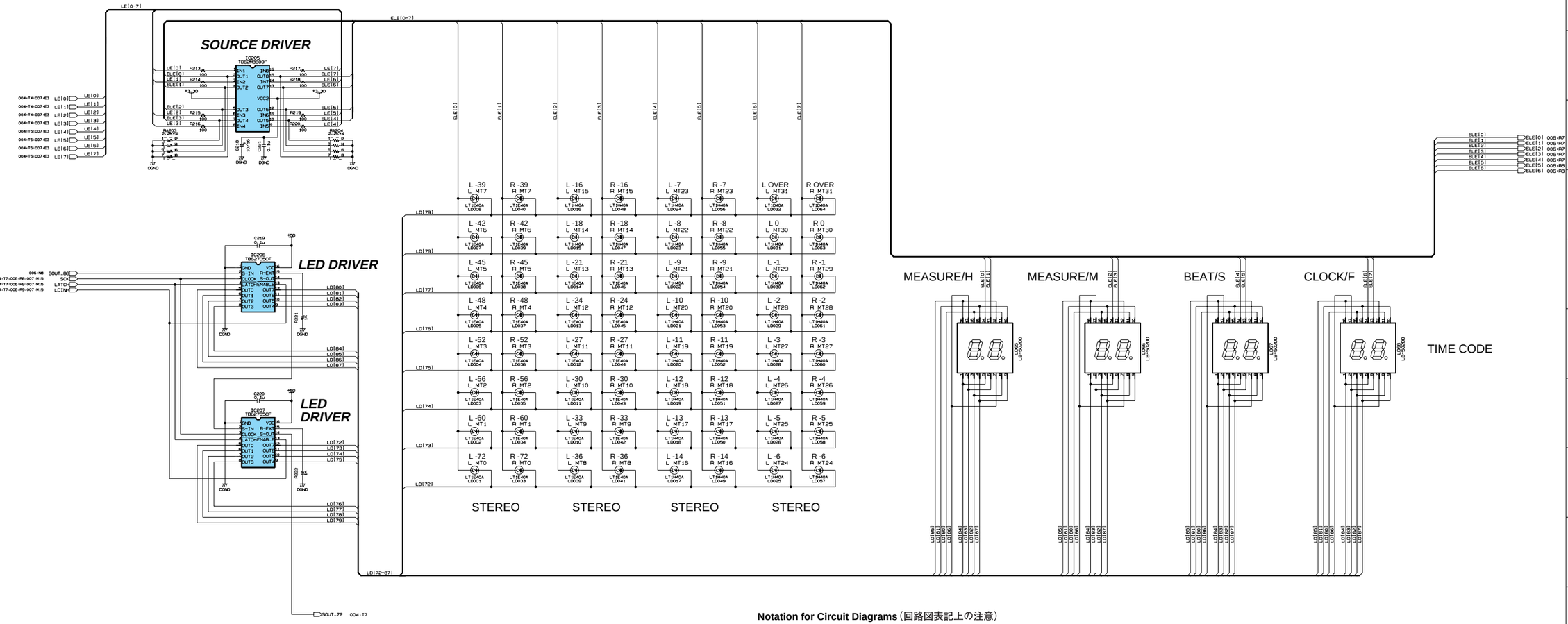
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

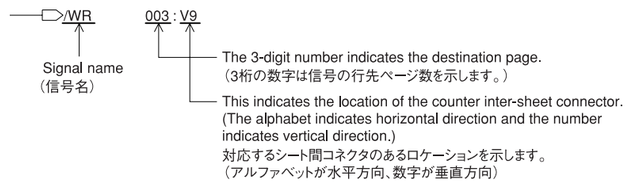
■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 004 (MB2000)

■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 005 (MB2000)



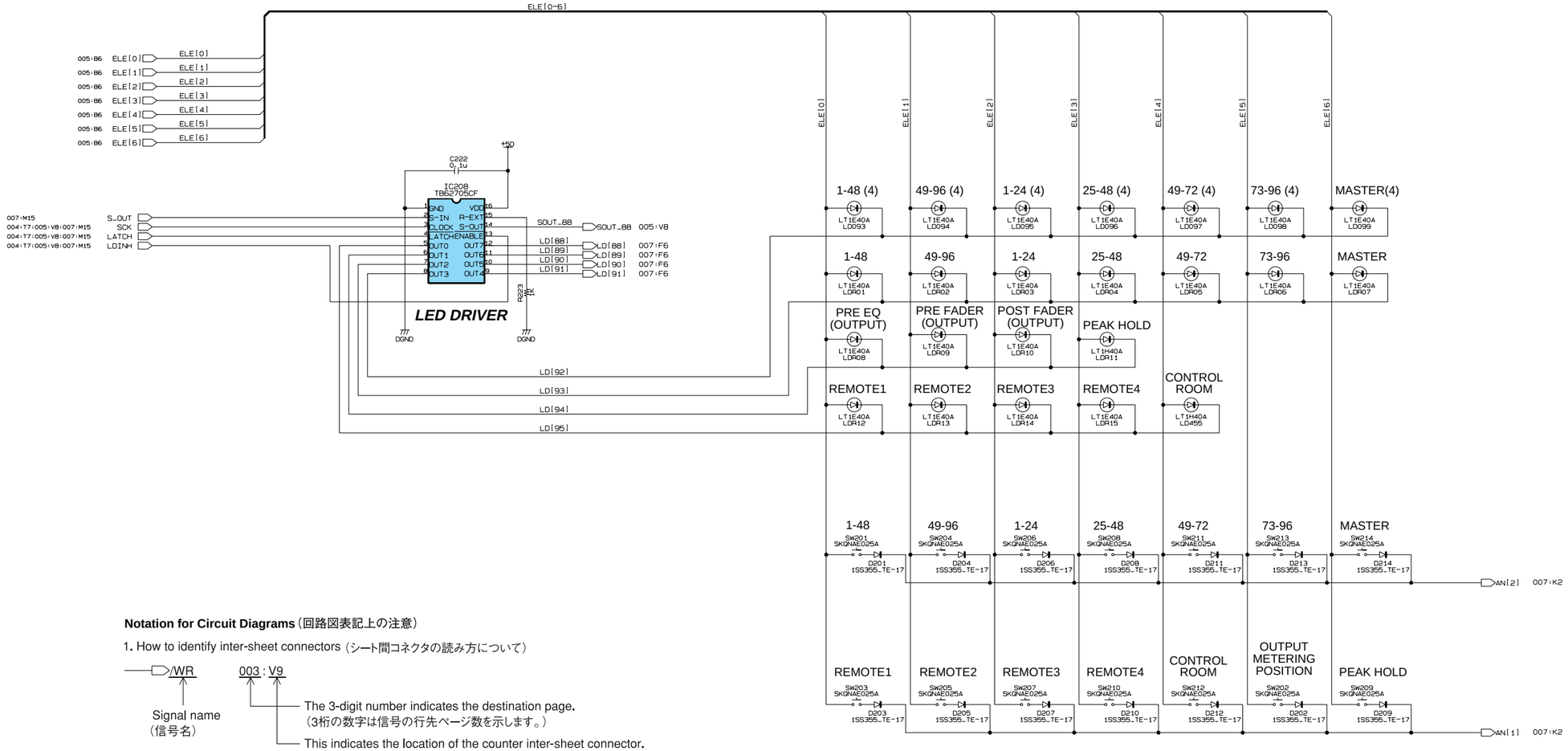
Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



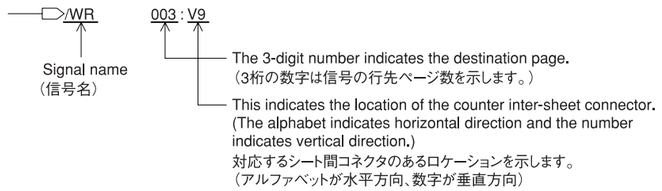
■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 006 (MB2000)

MB2000



Notation for Circuit Diagrams（回路図表記上の注意）

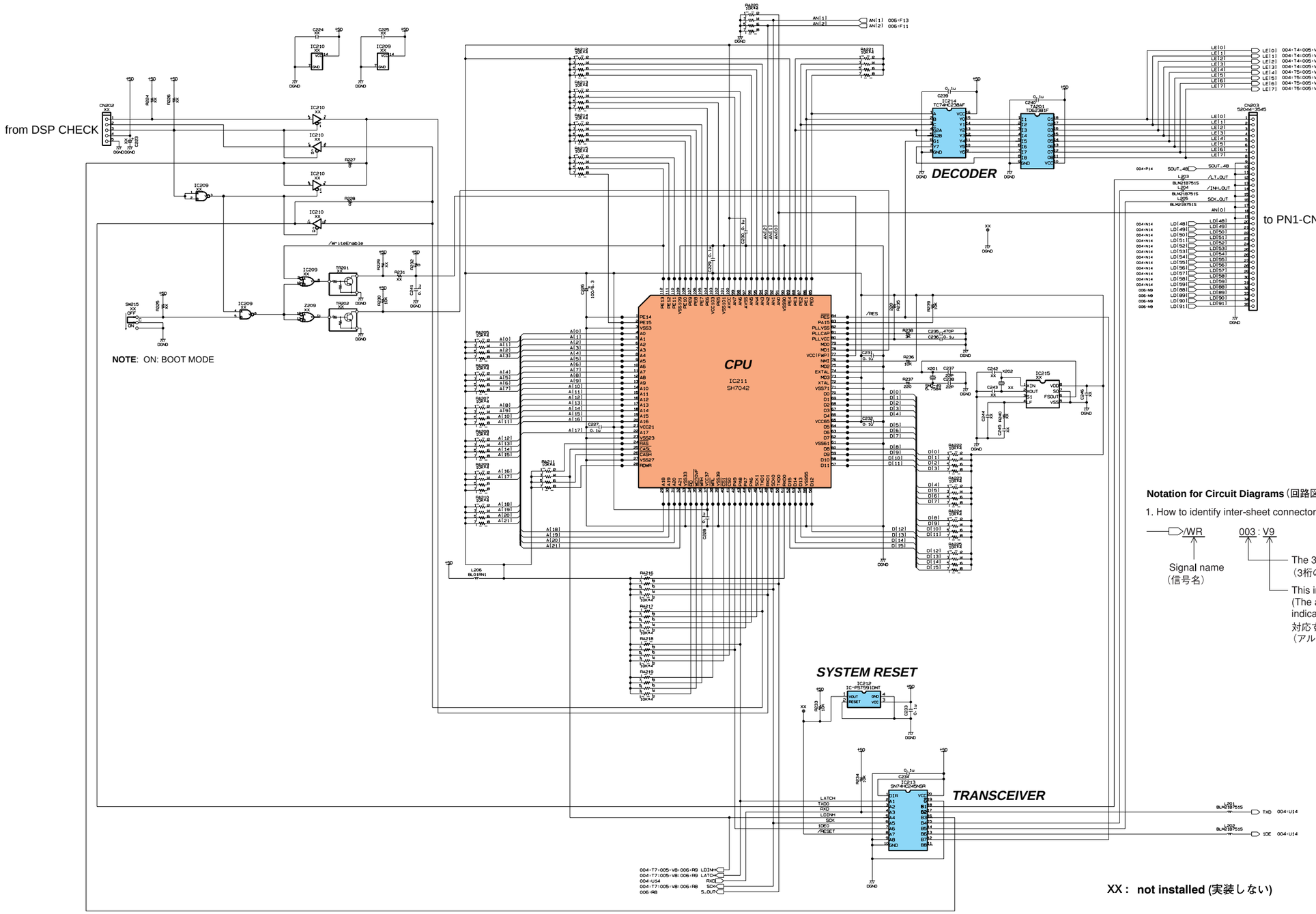
1. How to identify inter-sheet connectors（シート間コネクタの読み方について）



■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 006 (MB2000)

■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 007 (MB2000)

MB2000



Notation for Circuit Diagrams（回路図表記上の注意）

1. How to identify inter-sheet connectors（シート間コネクタの読み方について）

/WR — Signal name（信号名）

003 : V9
- The 3-digit number indicates the destination page.（3桁の数字は信号の行先ページ数を示します。）
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。（アルファベットが水平方向、数字が垂直方向）

XX : **not installed (実装しない)**

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■ PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 007 (MB2000)