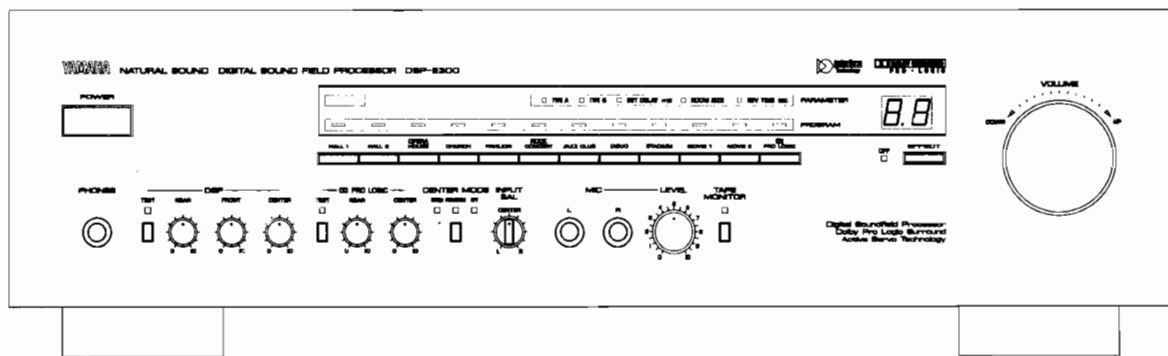


DIGITAL SOUND FIELD PROCESSOR

DSP-E300

SERVICE MANUAL



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

The data provided is believed 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 specifications 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 buss in the unit (heavy gauge black wires connect to this buss).

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

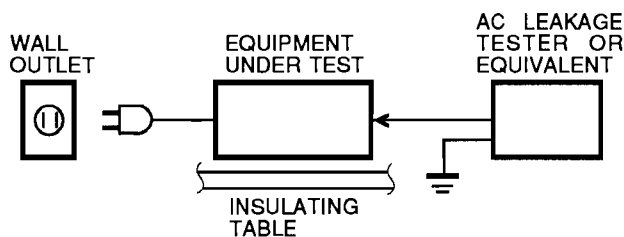
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■ TO SERVICE PERSONNEL

1. Critical Components Information.
Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Model Only).
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.
 - Leakage current must not exceed 0.5mA.
 - Be sure to test for leakage with the AC plug in both polarities.



● POLARIZATION (U, C models only)

This processor product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

■ SPECIFICATIONS

■ EFFECT POWER AMP SECTION

- Minimum RMS Output Power Per Channel
(YST switch off) 1kHz, 1%, 6Ω 15W

■ PROCESSOR SECTION

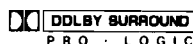
- A/D Converter
Resolution 16 bit linear
Features 2 ch A/D, 18-bit calibration
- D/A Converter
Resolution 16 bit linear
- Preset Programs
DSP Sound Field Programs 11 programs, 20 subprograms
Dolby Pro Logic Surround
- Input Sensitivity/Input Impedance
INPUT, TAPE PB 150mv / 47kΩ
MIC 500μV/5.6kΩ
- Frequency Response (20Hz—20kHz)
MAIN OUT 0±1dB

■ GENERAL

- Power Requirements
U. S. & Canada AC 120V, 60Hz
General AC 110/120/220/240V, 50/60Hz
U.K., Australia AC 240V, 50Hz
Europe AC 220V, 50Hz
- Power Consumption
U. S. & Canada 170W
Other Areas 110W
- AC Outlets (U. S., Canada, General models only)
SWITCHED x 2 100W max.
UNSWITCHED x 1 200W max.
- Dimensions (WxHxD) 435x130x375.4mm
(17-1/8"x5-1/8"x14-3/4")
- Weight 10kg
(22 lb)

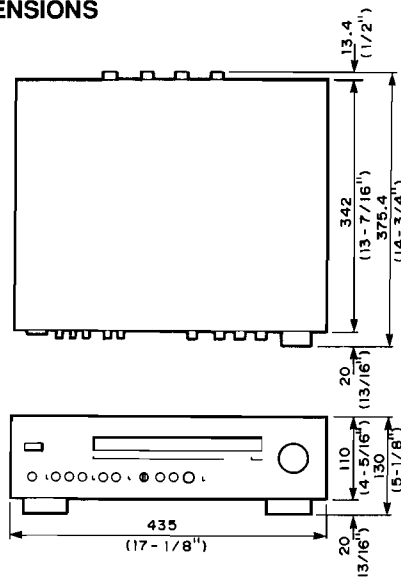
*Specifications are subject to change without notice.

U U. S. A. model
C Canadian model
B British model
A Australian model
G European model
R General model



Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U. S. numbers 3682, 886, 3746, 792, and 3959, 590; Canada numbers 1004, 603 and 1037, 877. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

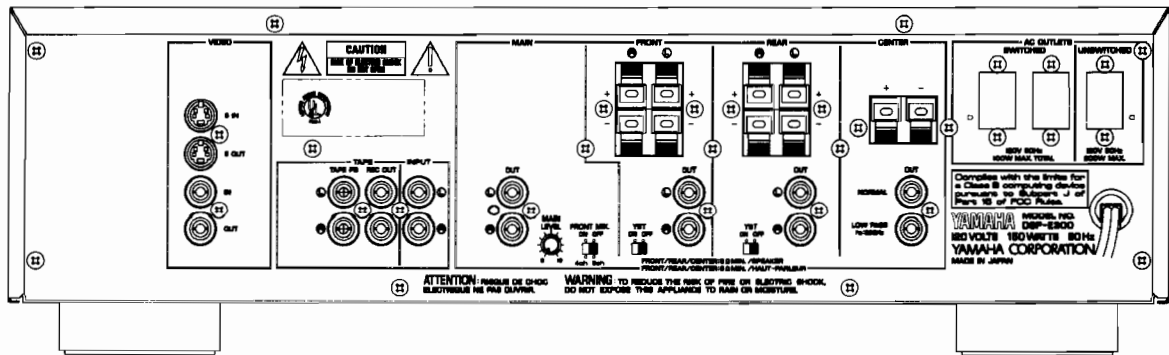
● DIMENSIONS



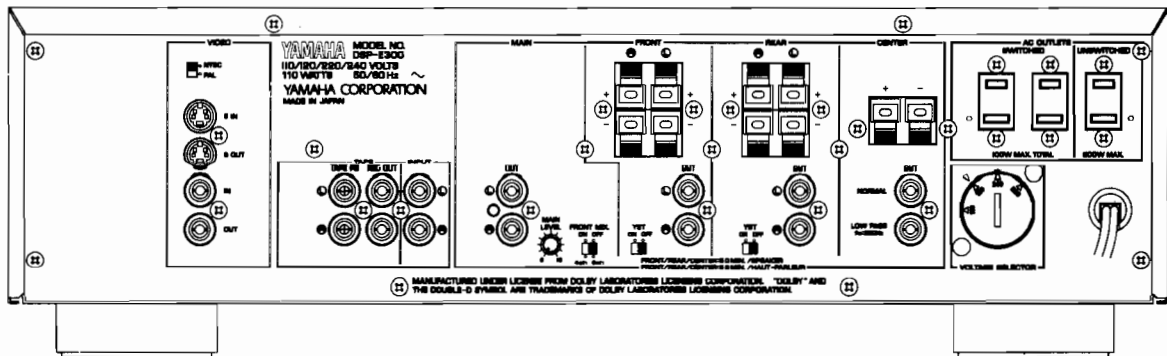
Unit : mm (inch)

REAR PANELS

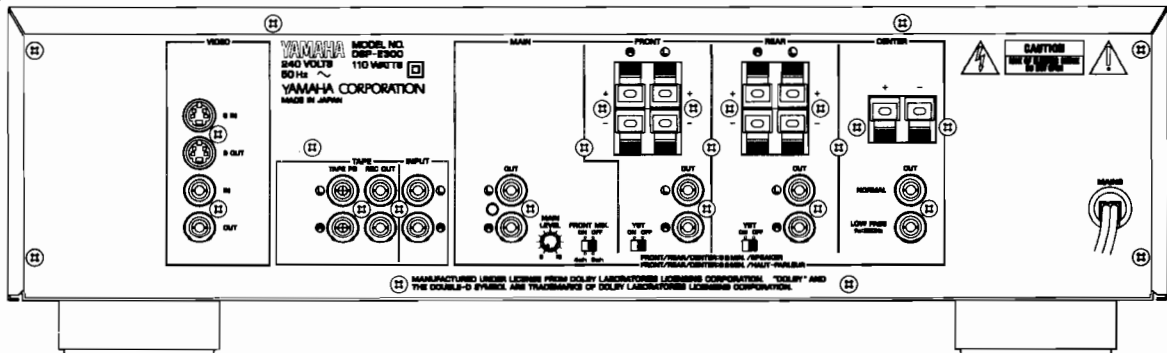
▼ U. C model



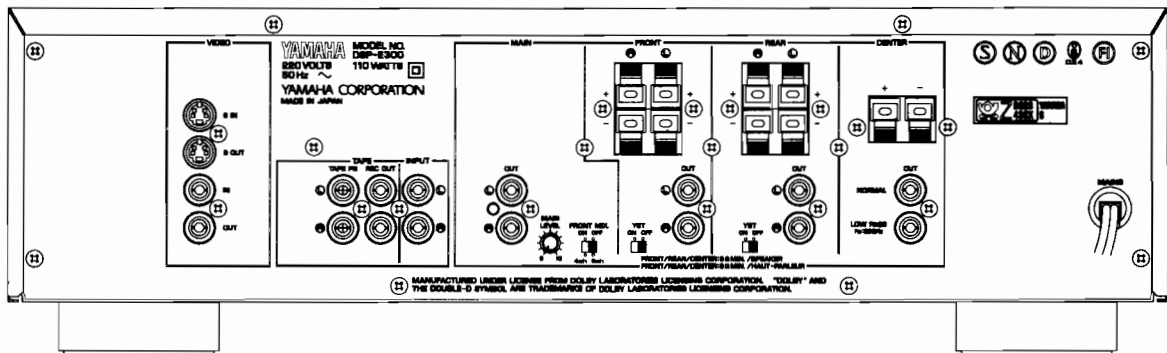
▼ R model



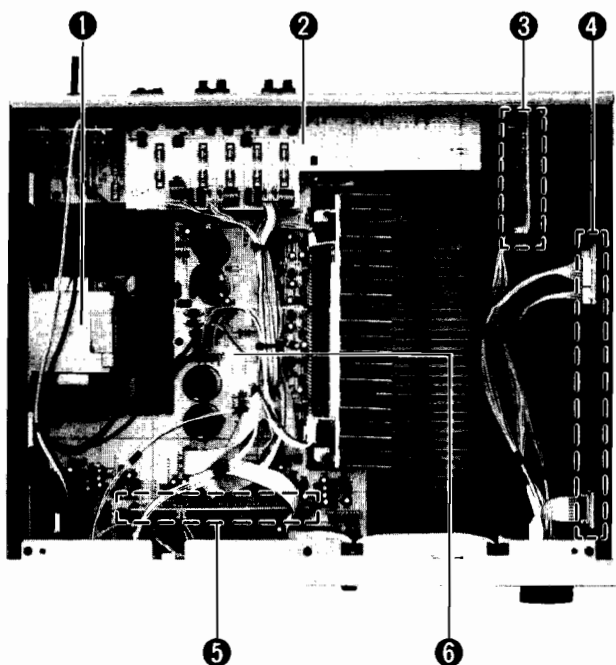
▼ A, B models



▼ G model



■ INTERNAL VIEW



① POWER TRANSFORMER

U model : XG782B00

R model : XG783B00

A, B models : XG784B00

G model : XG785B00

C model : XH153B00

② OPERATION CIRCUIT BOARD (3)

③ EFFECT AMP CIRCUIT BOARD (4) : S-VIDEO SECTION

④ OPERATION CIRCUIT BOARD (2) : DSP SECTION

⑤ OPERATION CIRCUIT BOARD (4) : DOLBY PRO-LOGIC SECTION

⑥ EFFECT AMP CIRCUIT BOARD (1)

■ DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

- Remove 4 screws (①) and 2 screws (②) in Fig. 1.
- Lift the Top Cover to the back side and move it rearward slantingly.

2. Removal of Bottom Cover

Remove 10 screws (③) in Fig. 1.

3. Removal of Operation Circuit Board (2)

Remove 4 screws (④) in Fig. 1.

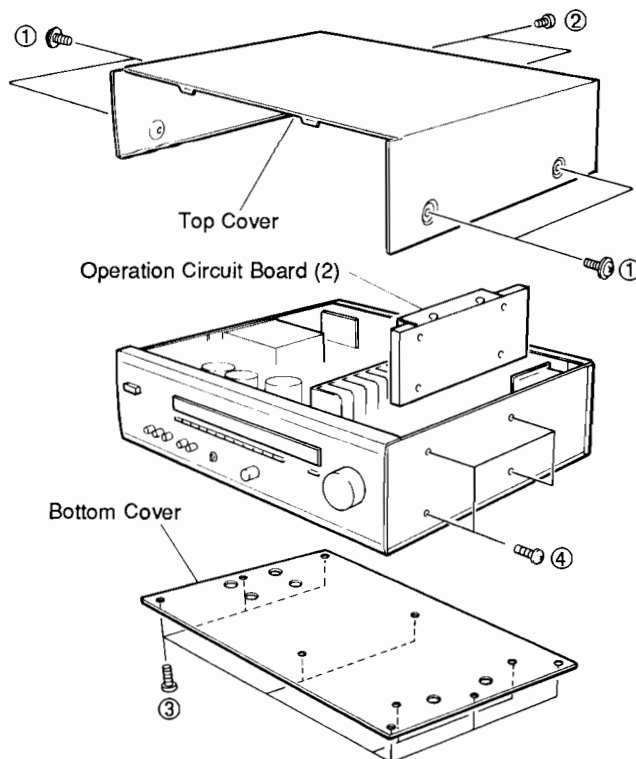


Fig. 1

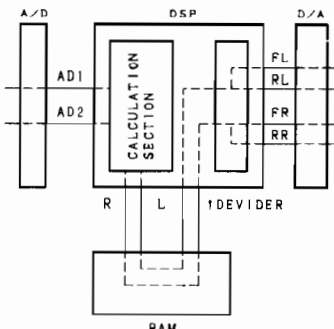
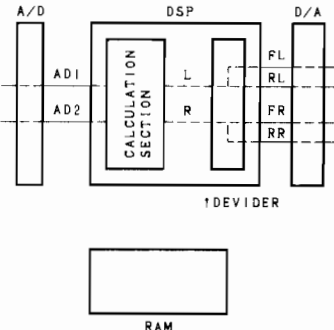
■ TEST PROGRAM

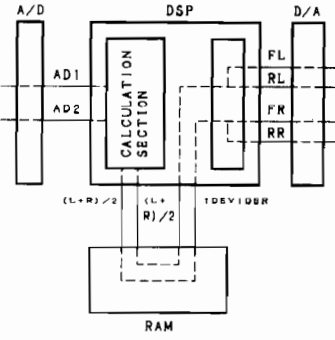
The DSP-E300 has a self-diagnosis function performed by using internal test programs. Be sure to verify all test programs.

● Starting Test Program

While holding down 3 program keys (HALL 1, HALL 2 and OPERA HOUSE) simultaneously, turn on the POWER switch.

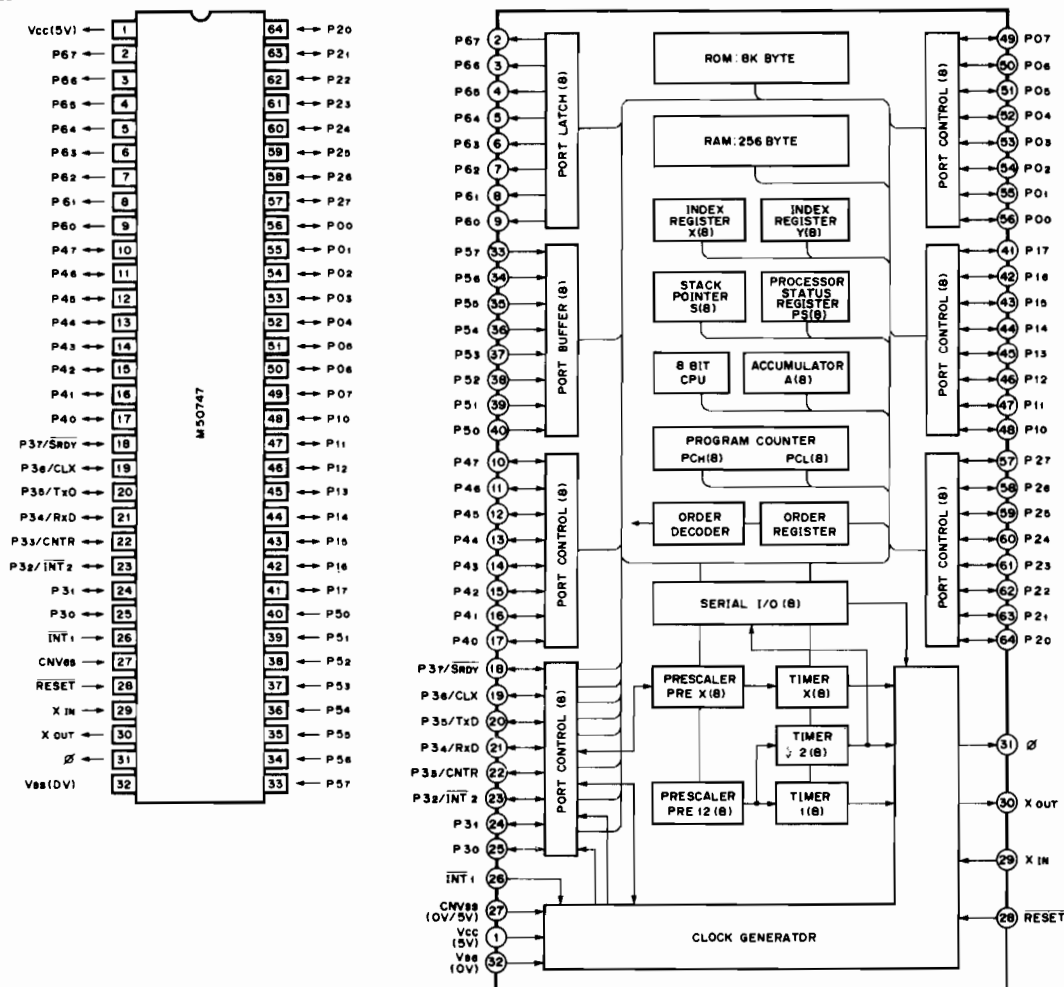
Content of Test Program

Program	Item	Operation	Program	Item	Operation
No. 1 (HALL 1)	EXIT DIAG	Sets back to the normal operation mode from the test program mode.	No.7 (JAZZ-CLUB)	RAM THROUGH L OUT R OUT	1. Sets to the RAM THROUGH mode.  As A/D input is in 2 channels, (L+R) /2 and (L-R), calculation done inside the DSP according to this program is as follows. Supposing $AD1 = (L+R) / 2$ and $AD2 = L-R$, $FL, RL = AD1 + AD2 / 2 = (L+R) / 2 + (L-R) / 2 = L$ $FR, RR = AD1 - AD2 / 2 = (L+R) / 2 - (L-R) / 2 = R$ 2. The 7seg LED indicates "7".
No. 2 (HALL 2)	TEST LED-1	1. LEDs light in the following order. 7seg LED 0.0 1 1 2.2 3 3 4.4 5 5 6.6 7 7 8.8 9 9 HALL 1 HALL 2 OPERA HOUSE CHURCH PAVILION ROCK CONCERT JAZZ CLUB DISCO STADIUM MOVIE 1 MOVIE 2 PRO LOGIC TYPE A TYPE B INIT DELAY ROOM SIZE REV TIME DSP TEST PRO LOGIC TEST NORMAL PHANTOM OFF TAPE MONITOR EFFECT OFF 2. Finally, all LEDs other than 7seg LED light and then the 7seg LED indicates "2".		DSP THROUGH L OUT R OUT	1. Sets to the DSP THROUGH mode.  $FL, RL = AD1 + AD2 / 2 = (L+R) / 2 + (L-R) / 2 = L$ $FR, RR = AD1 - AD2 / 2 = (L+R) / 2 - (L-R) / 2 = R$ 2. The 7seg LED indicates "8".
No.3 (OPERA-HOUSE)	TEST LED-2	All 7seg LEDs light. LEDs from HALL 1 to PRO LOGIC all light. LEDs from TYPE A to REV TIME all light. LEDs from DSP TEST to EFFECT OFF all light.			

Program	Item	Operation
No.9 (STADIUM)	RAM THROUGH (L+R) /2 OUT	1. Sets to the RAM THROUGH mode.  FL, RL=AD1=(L+R) /2 FR, RR=AD1=(L+R) /2 2. The 7seg LED indicates "9".

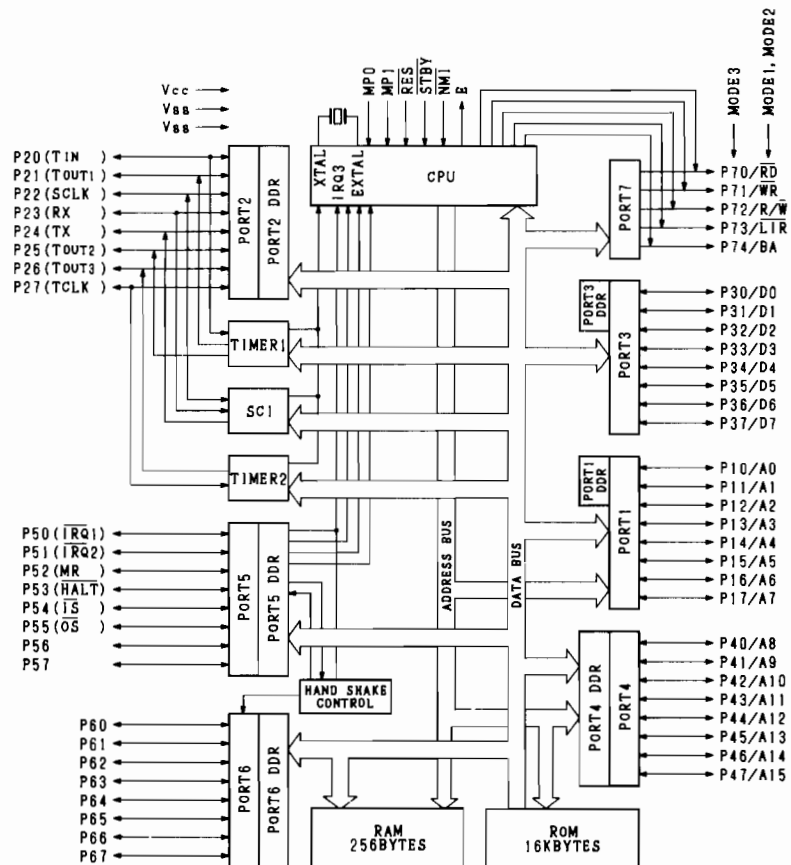
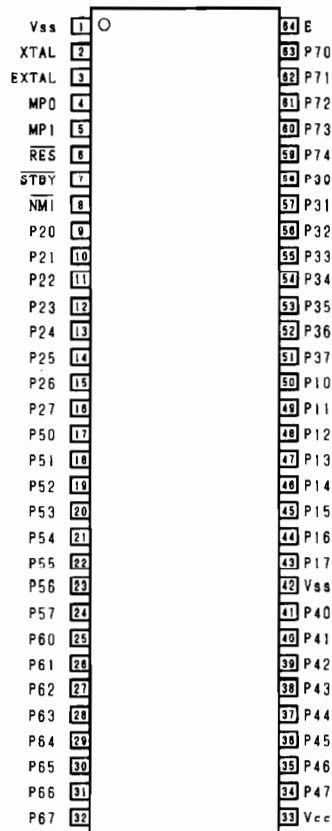
IC DATA

IC2 : M50747-B87
8bit μ -COM



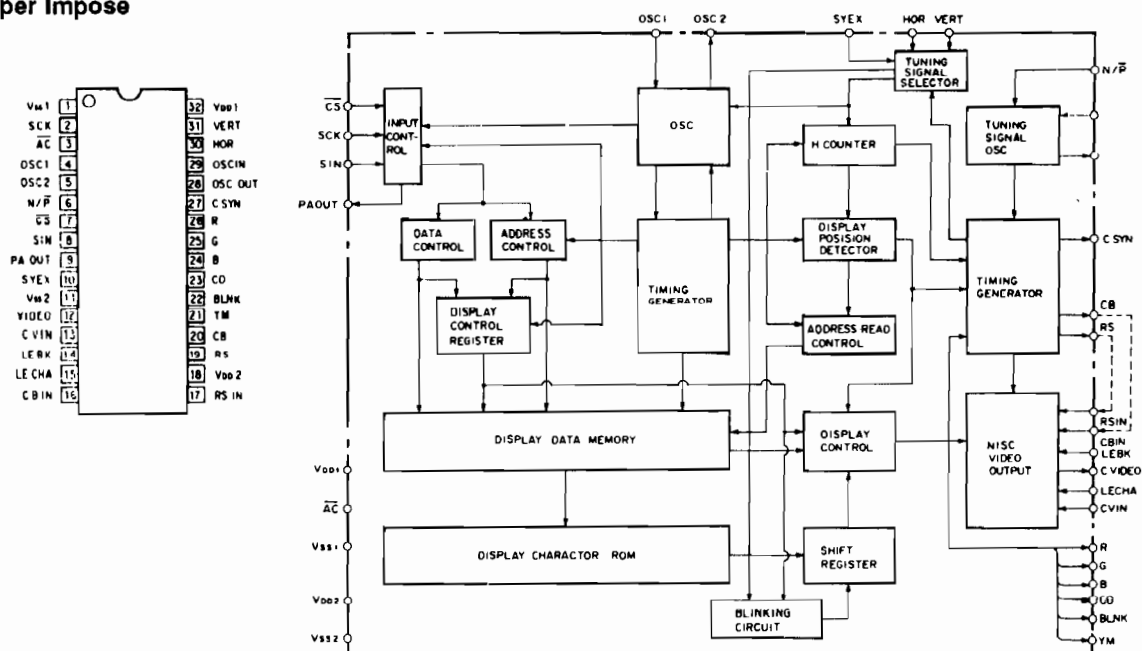
Pin No.	Pin name	Function Name	I/O	Active	Description
1	Vcc	VDD	—	—	+5V
2	P67	SH	O	H	LED segment
3	P66	SG	O	H	
4	P65	SF	O	H	
5	P64	SE	O	H	
6	P63	SD	O	H	
7	P62	SC	O	H	
8	P61	SB	O	H	
9	P60	SA	O	H	
10	P47	DA7	O	L/H	Digital signal for VCA control (When DA0 (LSB) to DA7 (MSB) are all "L", VCA is - When ATTs are all "H", VCA is 0dB.)
11	P46	DA6	O	L/H	
12	P45	DA5	O	L/H	
13	P44	DA4	O	L/H	
14	P43	DA3	O	L/H	
15	P42	DA2	O	L/H	
16	P41	DA1	O	L/H	
17	P40	DA0	O	L/H	
18	P37/SRDY	X	O	—	Unused
19	P36/CLK	CLK1	I	—	Clock data for serial transmission of the superimpose IC.
20	P35/TXD	SO	O	—	
21	P34/RXD	CLK0	O	—	
22	P33/CNTR	CE	O	L	Chip select of the superimpose IC
23	P32/INT2	SY DET	I	L/H	Picture detect (External picture input available at "H")
24	P31	N/P	I	L	PAL/NTSC select (NTSC at "L")
25	P30	REM IN	I	—	Remote control beam reception signal input
26	INT1	REM IN	—	—	
27	CNVSS	CN Vss	—	—	GND
28	RESET	RESM	—	—	Reset
29	X IN	OSC1	—	—	Clock(8MHz)
30	X OUT	OSC0	—	—	
31	φ	φ	—	—	Unused
32	Vss	Vss	I	—	GND
33	P57	PDET	I	L/H	Power ON/OFF detect (OFF at "L")
34	P56	X	I	—	Unused
35	P55	ENCB	I	—	Rotary encoder input
36	P54	ENCA	I	—	
37	P53	K3	I	H	Key input (Key input available at "H")
38	P52	K2	I	H	
39	P51	K1	I	H	
40	P50	K0	I	H	
41	P17	D4	O	H	Digit line
42	P16	D3	O	H	
43	P15	D2	O	H	
44	P14	D1	O	H	
45	P13	D0	O	H	
46	P12	CMT	O	H	Center Effect mute signal Main
47	P11	EMT	O	L	
48	P10	MMT	O	H	
49	P07	CMD	O	L/H	DOLBY center mode select (Normal at "H")
50	P06	CCH	O	L/H	DOLBY center channel select (OFF at "H")
51	P05	DBY	O	L/H	DOLBY select (ON at "H")
52	P04	RES	—	—	
53	P03	TAPE	O	L/H	TAPE MONITOR select (Tape monitor ON at "H")
54	P02	CE1	O	—	Chip select of input select IC
55	P01	DACS	O	—	Unused
56	P00	DSPS	O	—	Interface with HD63BOIY
57	P27	DSP7	O	—	
58	P26	DSP6	O	—	
59	P25	DSP5	O	—	
60	P24	DSP4	O	—	
61	P23	DSP3	O	—	
62	P22	DSP2	O	—	
63	P21	DSP1	O	—	
64	P20	DSP0	O	—	

IC27 : HD63B01YORL37P
8bit μ -COM



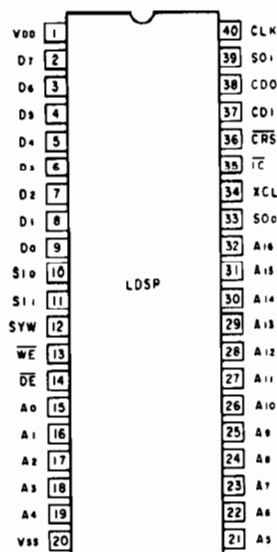
Pin No.	Pin name	Function Name	I/O	Description
1	Vss	Vss	—	GND
2	XTAL	XTAL	—	Unused
3	EXTAL	EXTAL	I	Clock input
4	MP0	MP0	I	} "H" mode setting (with single chip mode fixed)
5	MP1	MP1	I	
6	RES	RES	I	Reset input
7	STBY	STBY	I	} "H" unused
8	NMI	NMI	I	
9	P20		O	} Output port (unused)
10	P21		O	
11	P22	SCLK	O	Clock for transmitting serial data to DSP
12	P23	RX	I	Serial data input port (unused)
13	P24	TX	O	Serial data output port to DSP
14	P25		O	} Output port (unused)
15	P26		O	
16	P27		O	
17	P50		I	} "L" unused
18	P51		I	
19	P52		I	
20	P53		I	Command format select ("H")
21	P54	DSPS	I	Command input strobe signal
22	P55		I	"L" unused
23	P56	CRS	O	DSP serial data input reset
24	P57	DBY	O	Output port (unused)
25	P60	DSP0	I	} Command input port
26	P61	DSP1	I	
27	P62	DSP2	I	
28	P63	DSP3	I	
29	P64	DSP4	I	
30	P65	DSP5	I	
31	P66	DSP6	I	
32	P67	DSP7	I	+5V
33	Vcc	Vcc	—	} Output port (unused)
34	P47		O	
35	P46		O	
36	P45		O	
37	P45		O	
38	P43		O	
39	P42		O	
40	P41		O	
41	P40		O	
42	Vss	Vss	—	GND
43	P17		O	} Output port (unused)
44	P16		O	
45	P15		O	
46	P14		O	
47	P13		O	
48	P12		O	
49	P11		O	
50	P10		O	
51	P37		O	
52	P36		O	
53	P35		O	
54	P34		O	
55	P33		O	
56	P32		O	
57	P31		O	
58	P30		O	
59	P74	BA	O	
60	P73	LIR	O	
61	P72	R/W	O	
62	P71	WR	O	
63	P70	RD	O	
64	WE	E	O	System clock (unused)

IC703 : M50455-060SP
Supper Impose

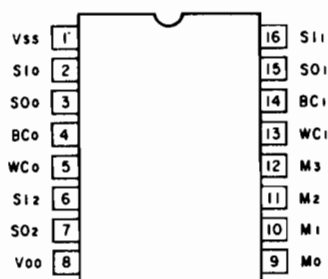


Pin No.	Pin Name	Pin Description	Function
1	VSS 1	Earth terminal	Connect with GND by digital system earth terminal.
2	SCX	Serial clock input	When it is SC terminal "L", serial data of S IN is taken in with the start-up of SCK. Hysteresis input.
3	AC	Automatic clear input	Reset IC internal circuit with "L" status. Pull-up resistance has been contained. Hysteresis input.
4	OSC 1	Oscillation circuit external terminal	External terminal for oscillation circuit for indication use. The standard oscillation frequency is about 7MHz.
5	OSC 2		Display position toward horizontal direction of TV picture and letter width are determined by the oscillation frequency.
6	N/P	NISC/PAL switching input	It is NTSC or PAL system synchronized signal generation switching terminal.
7	CS	Chip selection input	Chip selection terminal. When serial data transfer is conducted, the chip selection terminal shall be "L" status.
8	S IN	Serial data input	Data and address of memory for use in the display resistor and display data are input by serial.
9	PA OUT	Parity output	It is odd number parity output, and it will detect 1 bit mistake in a word of S IN.
10	SYEX	Synchronized signal changeover input	Externally synchronized or internally synchronized signal switching terminal. Under "H" status, it becomes externally synchronized signal mode, and with "L" status, it becomes internally synchronized signal mode. SYEX composes or of priority of internal synchronization and EX. Resistor of address 243 in the display control resistor. Pull-up resistance is contained.
11	VSS 1	Earth terminal	Connect with GND by analog earth terminal.
12	VIDEO	Composite video output	It is composite video signal output terminal. Composite video signal of 2Vp-p is output. When it is super imposition, it will output increasing the volume of letter output to CV IN signal.
13	CV IN	Composite video input	It is composite video signal input terminal. When it is super impose, letter output etc. Will be increases for the composite video signal.
14	LEBK	Blanking level	It is input terminal to determine blanking level of video signal.
15	LECHA	Character level input	It is input terminal to determine the letter output level in the video signal. Color of letter is white.
16	CB IN	Color burst input	It will input transforming CB output to color burst level by external circuit.

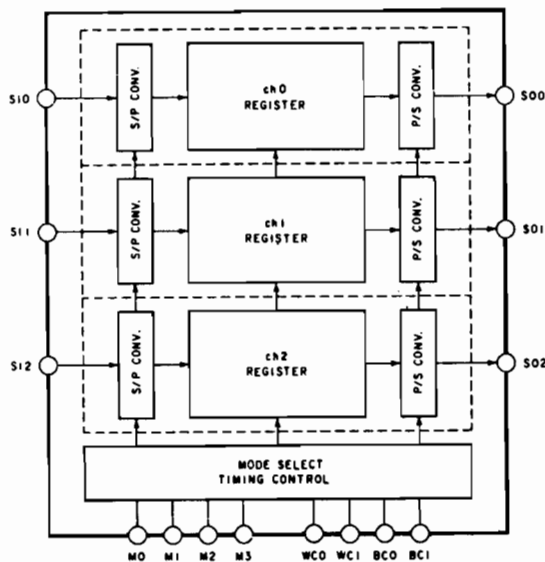
Pin No.	Pin Name	Pin Description	Function
17	RS IN	Lettering background carrier color signal input	Input is done transforming RS output to carrier color signal level of video signal by external circuit.
18	VDD 2	Power source terminal	Connect with +5V by analog system power source terminal.
19	RS	Lettering background carrier color signal output	It is carrier color signal output for the coloring background. It will output signal having phase angle for the color burst signal CB. Amplitude : 5V.
20	CB	Color burst output	When it is NTSC system, it will output color burst of 3.58MHz and 4.43MHz when it is PAL system. Amplitude : 5V.
21	YM	Brightness signal output	It is brightness signal output. Polarity selection can be done when lettering type ROM is determined.
22	BLNK	Lettering background output	It will output lettering background signal. POLarity selection can be done when lettering type ROM is decided.
23	CO	Lettering type output	Lettering type signal is output. POLarity selection can be done when lettering type is determined.
24	B	Blue output	It is blue output terminal. Polarity selection can be done when lettering type ROM is determined.
25	G	Green output	It is green output terminal. Polarity selection can be done when lettering type ROM is determined.
26	R	Red output	It is red output terminal. Polarity selection can be done when lettering type ROM is determined.
27	CSYN	Composite burst output	NTSC or PAL system composite burst is output. Polarity is negative polarity, and amplitude is 5V.
28	OSC OUT	Oscillation circuit for burst generation	It is external terminal of oscillation circuit for the generation of burst. When it is NTSC system, it is 14.32MHz.
29	OSC IN		When it is PAL system, oscillation frequency of 17.73MHz is used.
30	HOR	Horizontal burst	Horizontal burst is output. Histeresis input. Polarity selection can be done when lettering type ROM is determined.
31	VERT	Vertical burst	Vertical burst is input. Histeresis input. Polarity selection can be done when lettering type ROM is determined.
32	VDD2	Power source terminal	Connect with +5V by digital power source terminal.

IC28 : YM3413
LDSP


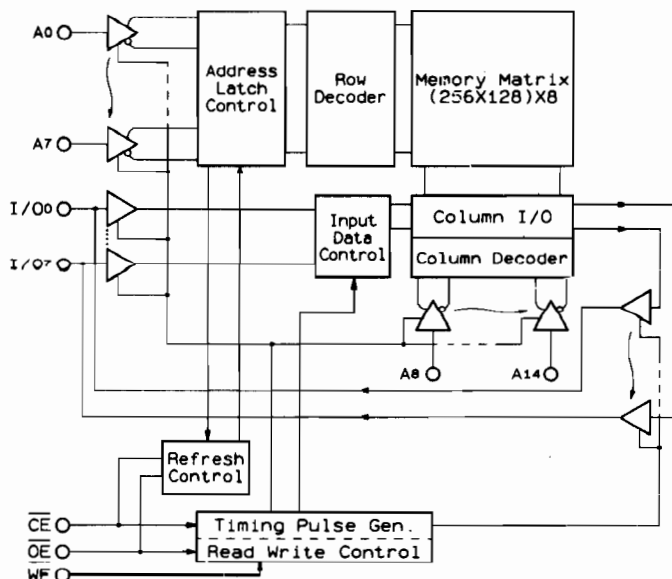
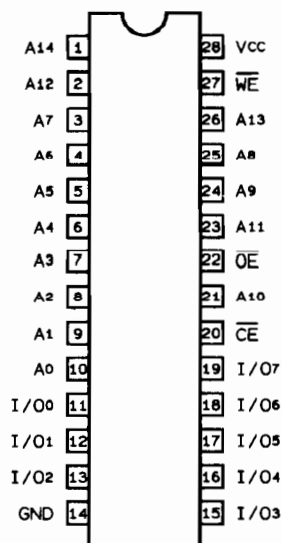
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	VDD	—	+5V Voltage Supply	40	CLK	I	Master clock input
2	D7	I/O	I/O pins connected to memory data bus (8 bit)	39	SO1	O	Serial data output
3	D6	I/O		38	CD0	O	CD data output
4	D5	I/O		37	CD1	I	CD data input
5	D4	I/O		36	CRS	I	CD data sync signal input
6	D3	I/O		35	IC	I	LDSP initial clear signal input
7	D2	I/O		34	XCLK	I	ACIA clock input
8	D1	I/O		33	SD0	O	Serial data output
9	D0	I/O	Outputs connected to memory's address bus	32	A16	O	Outputs connected to
10	SI0	I		31	A15	O	
11	SI1	I		30	A14	O	
12	SYW	I		29	A13	O	
13	WE	O		28	A12	O	
14	OE	O		27	A11	O	
15	A0	O		26	A10	O	
16	A1	O		25	A9	O	
17	A2	O		24	A8	O	
18	A3	O		23	A7	O	
19	A4	O		22	A6	O	
20	VSS	O	GND	21	A5	O	

IC26 : YM3422
Digital Signal Format Converter


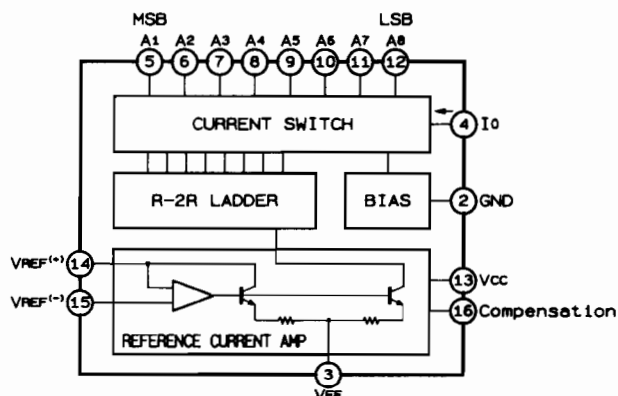
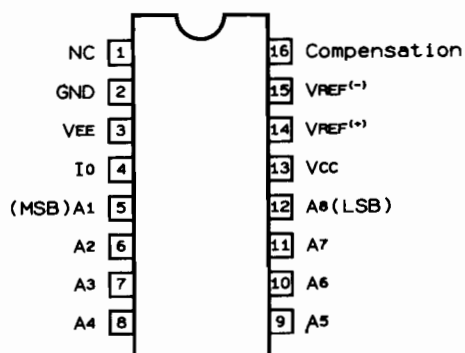
Pin No.	Pin Name	I/O	Function
1	VSS	—	GND terminal
2	SI0	IN	Serial data input (ch 0)
3	SO0	OUT	Serial data output (ch 0)
4	BC0	IN	Bit clock input
5	WC0	IN	System synchronized signal input
6	SI2	IN	Serial data input (ch 0)
7	SO2	OUT	Serial data output (ch 0)
8	VDD	—	Voltage supply (+5V)
9	M0	IN	Mode select signal
10	M1	IN	Mode select signal
11	M2	IN	Mode select signal
12	M3	IN	Mode select signal
13	WC1	IN	System synchronized signal input (Word clock)
14	BC1	IN	Bit clock input
15	SC1	IN	Serial data output (ch 1)
16	SI1	OUT	Serial data input (ch 1)



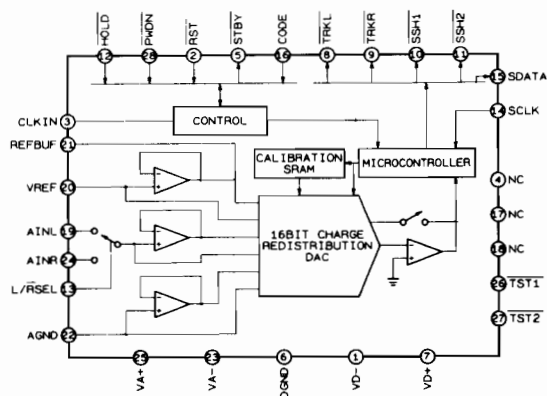
IC29 : HM65256BLP-10 or TC51832PL-10
32768-word x 8-bit High Speed Pseudo Static RAM



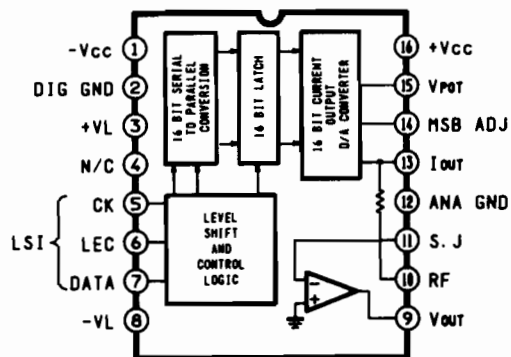
IC1 : HA17408P
8-bit Multiplying Digital - to - Analog Converter



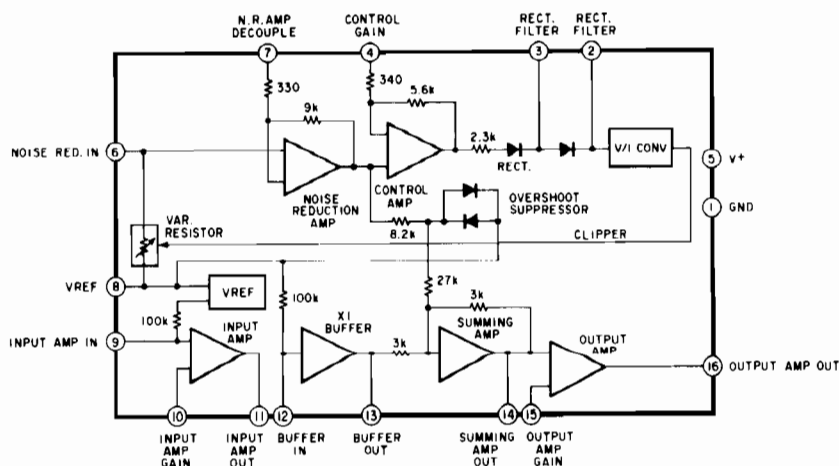
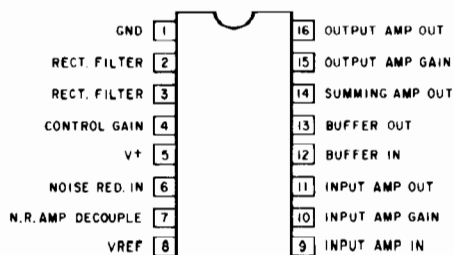
IC17 : AK9201A or AK9201
A/D Converter



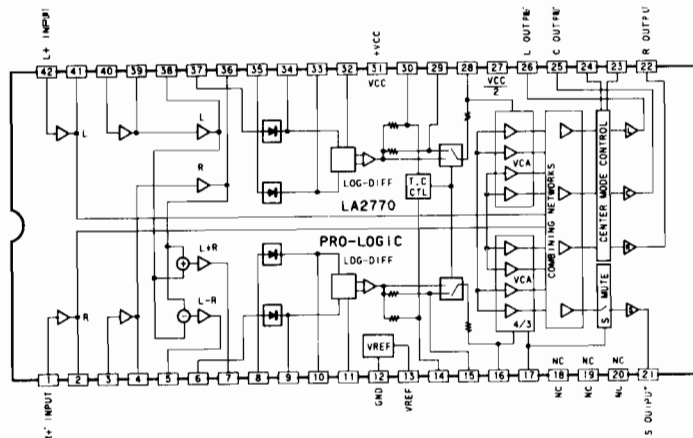
IC18, 19 : PCM56P
D/A Converter



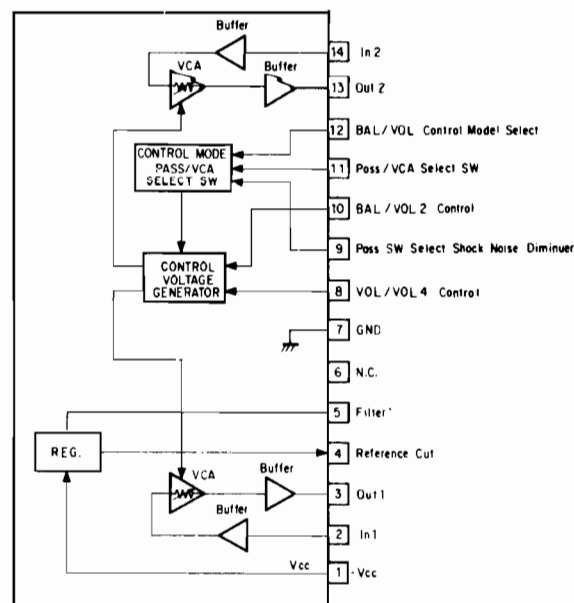
IC5 : LA2730 Dolby Encoder/Decoder



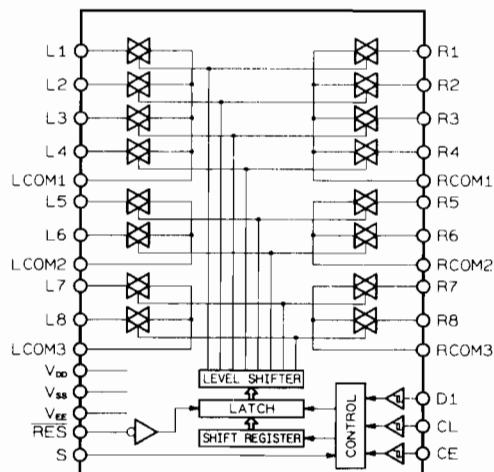
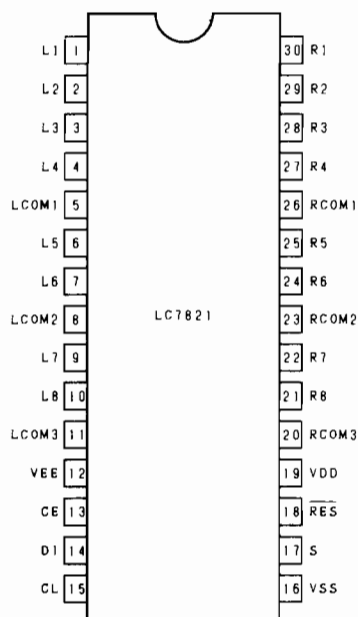
IC6 : LA2770 Dolby Pro Logic



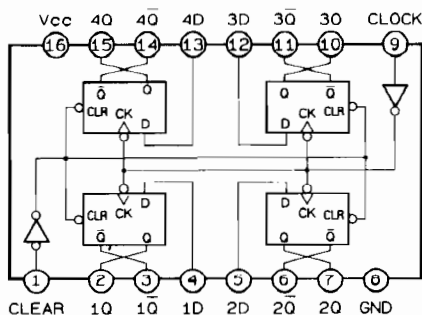
IC208, 210, 213, 216 : M51132L 2-Channel Volume/Balance Controller



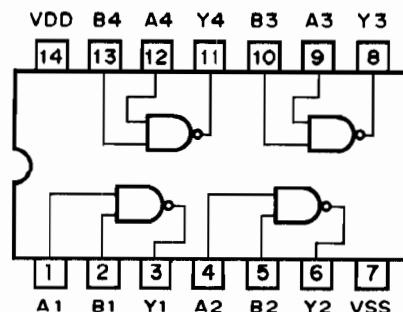
IC225 : LC7821N Analog Function Switch



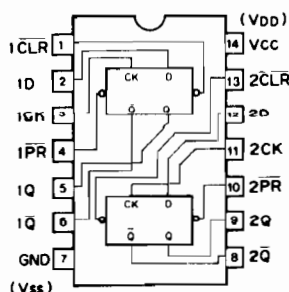
IC24 : μ PD74HC175G-T1 or MN74HC175S
Quad D-FFs



IC25 : μ PD74HC00G-T1
Quad 2-Input NAND Gate



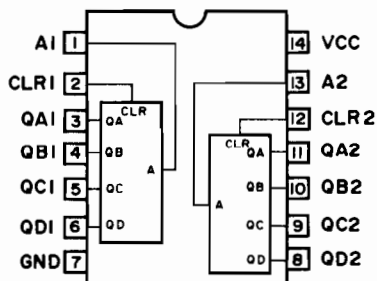
IC21, 22 : μ PD74HC74G-T1
Dual D-FFs with Preset and Clear



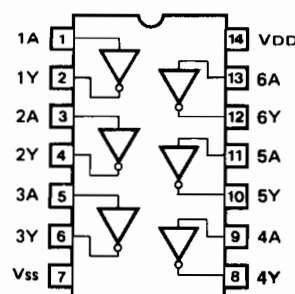
INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q $\bar$
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H $\bar$	H $\bar$
H	H	$\nearrow$	H	H	L
H	H	$\searrow$	L	L	H
H	H	L	X	Q0	Q0 $\bar$

- Note)
1. X : Either "H" or "L"
 2. $\nearrow$: Rise in positive direction
 3. Q0 : Q level before the input conditions in the table are established.
 4. Q0 $\bar$: Q level before the input conditions in the table are established.
 5. H $\bar$: When the preset and clear are "L", Q and Q $\bar$ are "H" but when the preset and clear are made "H" simultaneously, the level of Q and Q $\bar$ can not be predicted.

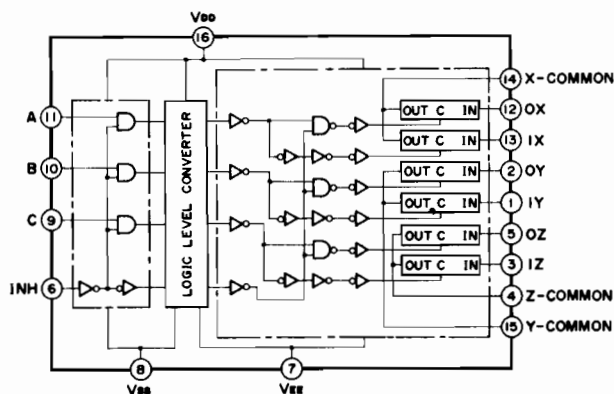
IC23 : μ PD74HC393G-T1 or MN74HC393S
Dual 4-Bit Binary Counters



IC8 : TC4069UBP
IC20 : μ PD74HCU04G-T1 or MN74HCU04S
IC701 : μ PD74HCU04C
Hex Inverters



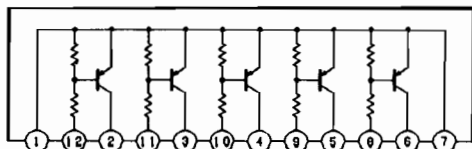
IC30, 31 : μ PD4053BC
IC205 : μ PD4053G-T1
IC215, 704 : TC4053BP
Triple-2 Channel Multiplexer/Demultiplexer



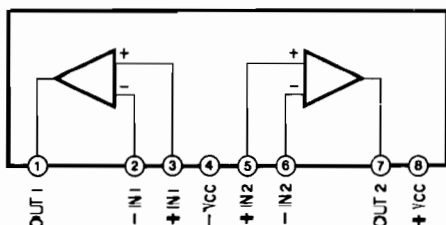
CONTROL INPUTS				"ON" CHANNEL
INHIBIT (Pin 6)	C (Pin 9)	B (Pin 10)	A (Pin 11)	0X (Pin 12), 0Y (Pin 2), 0Z (Pin 5) 1X (Pin 13), 1Y (Pin 1), 1Z (Pin 3)
L	L	L	L	0X, 0Y, 0Z
L	L	L	H	1X, 0Y, 0Z
L	L	H	L	0X, 1Y, 0Z
L	L	H	H	1X, 1Y, 0Z
L	H	L	L	0X, 0Y, 1Z
L	H	L	H	1X, 0Y, 1Z
L	H	H	L	0X, 1Y, 1Z
L	H	H	H	1X, 1Y, 1Z
H	*	*	*	NOTE

* Don't Care

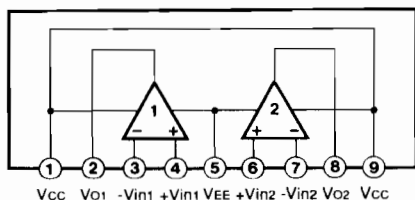
IC4 : DT5A143E
Transistor Array



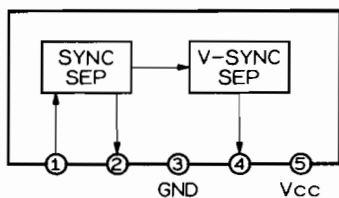
IC14, 16 : M5238L
Dual Ope-amp



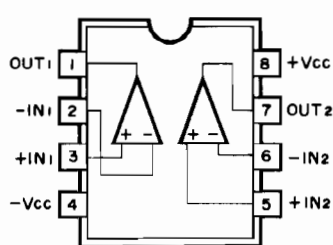
IC9~13, 15, 202, 204, 206, 207, 211,
212, 217, 218, 224 : μ PC4570HA
IC203 : μ PC4072HA
IC209 : NJM4556S
Dual Ope-amp



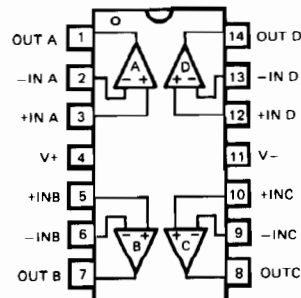
IC702 : LA7213
Video Sync. Sep.



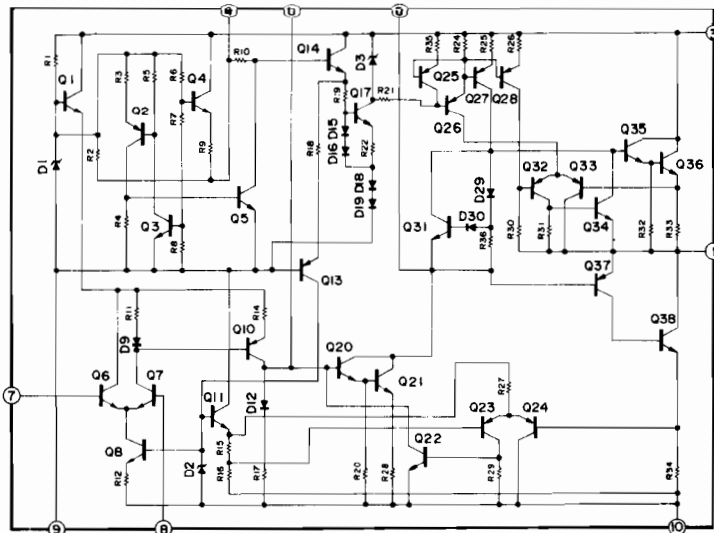
IC201 : μ PC4570G2-T1
Dual Ope-amp



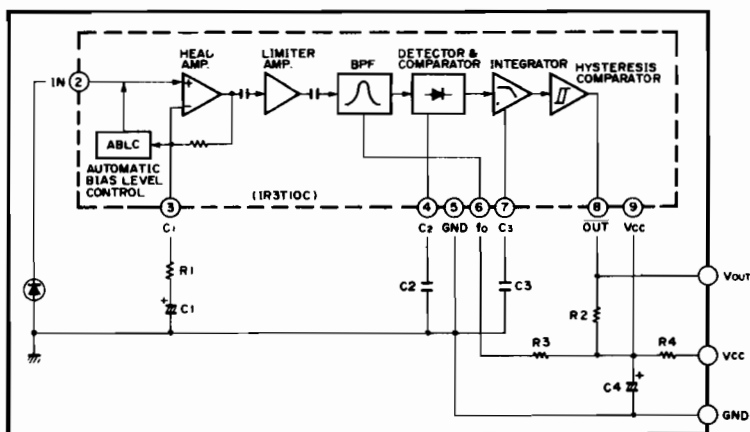
IC36, IC214 : μ PC4574C
4-channel Ope-amp



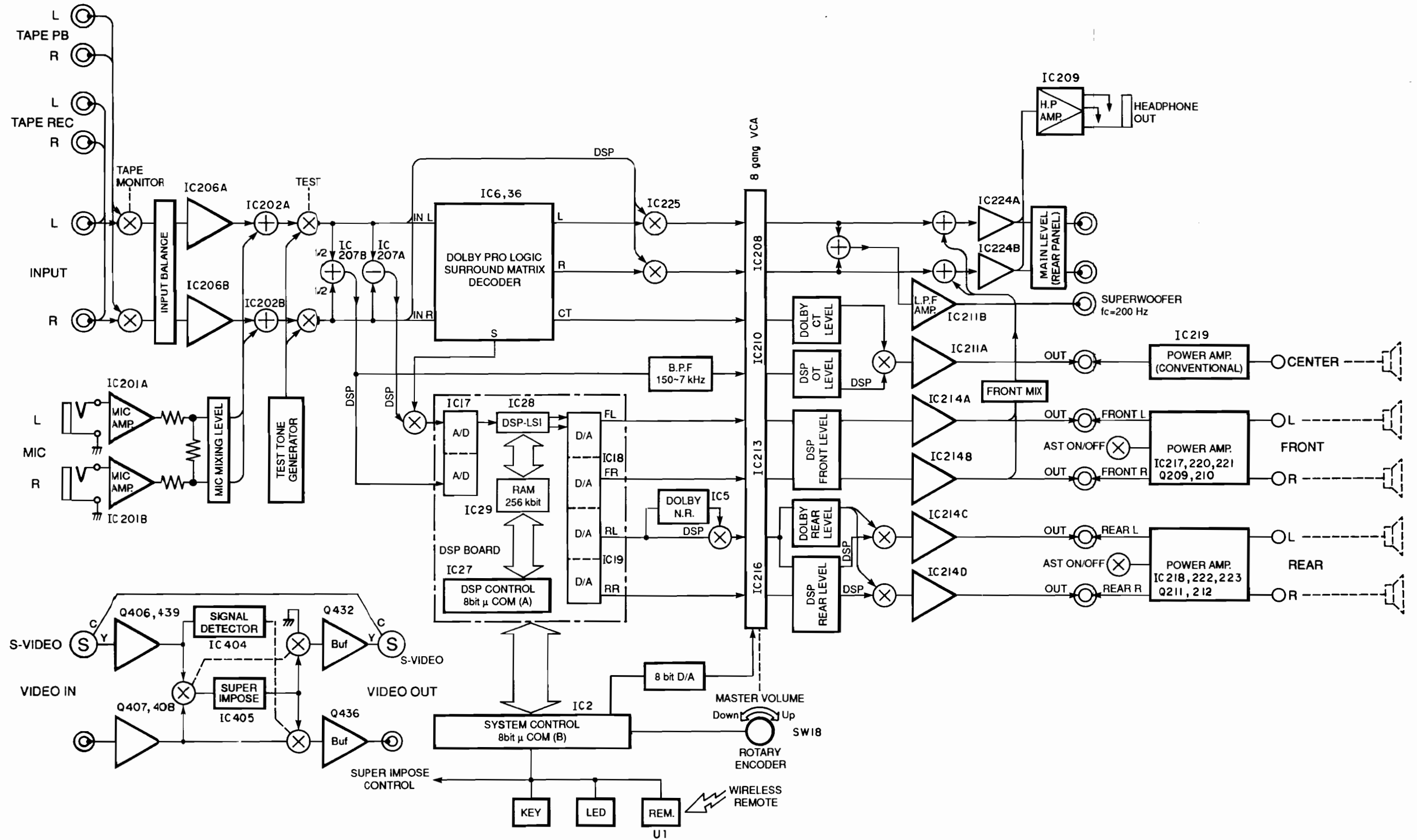
IC219~223 : μ PC1188H
Power Amp



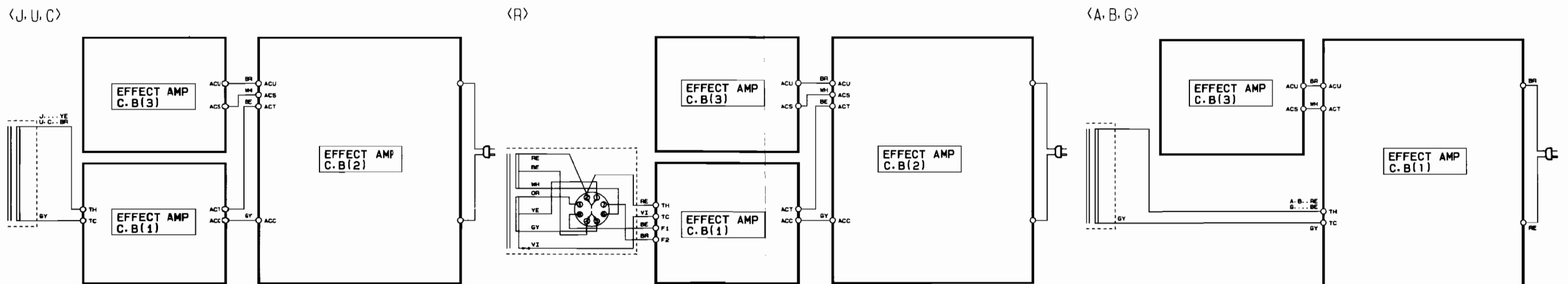
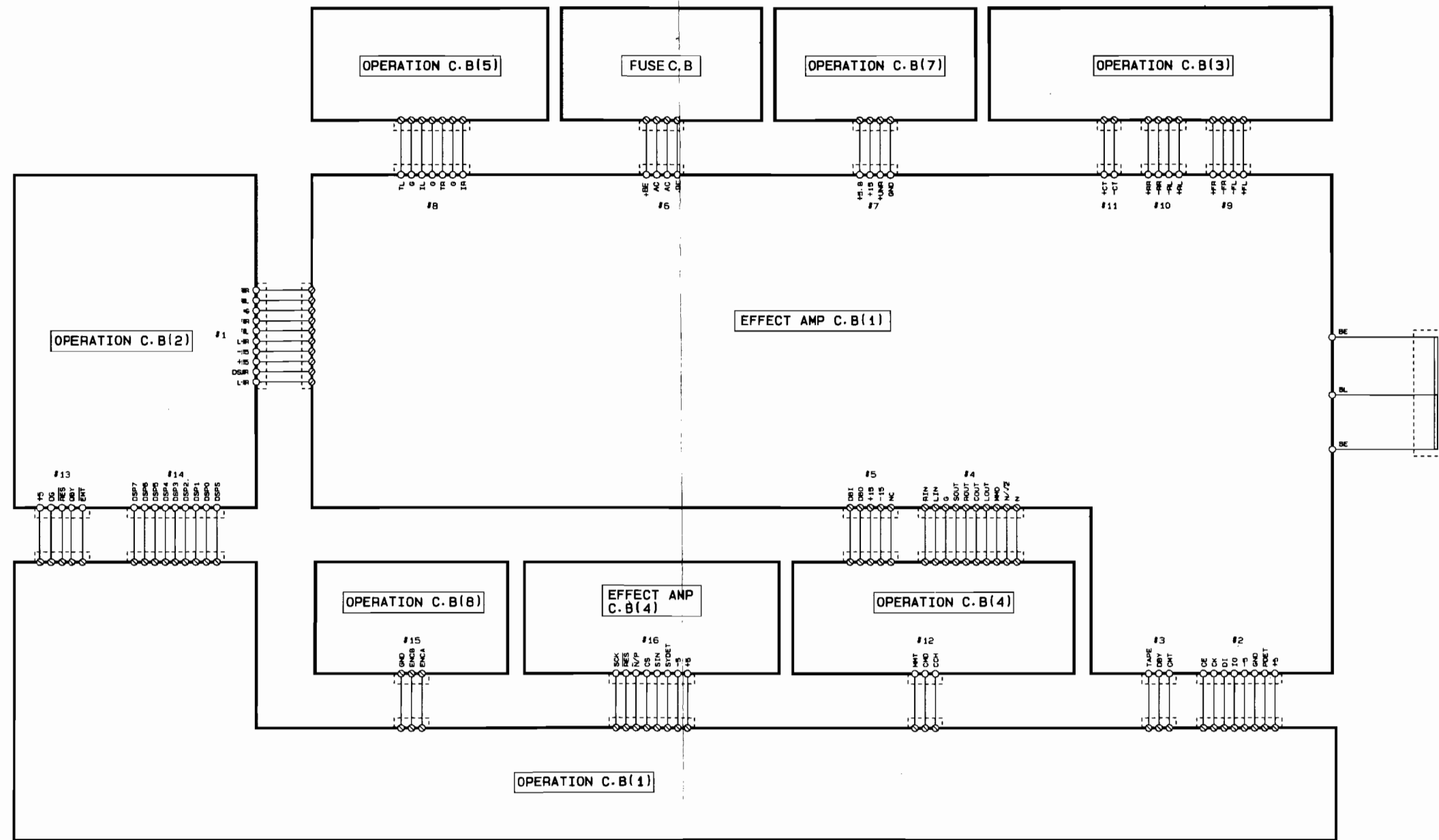
UI : GP1U501X
Remote Control Receptor

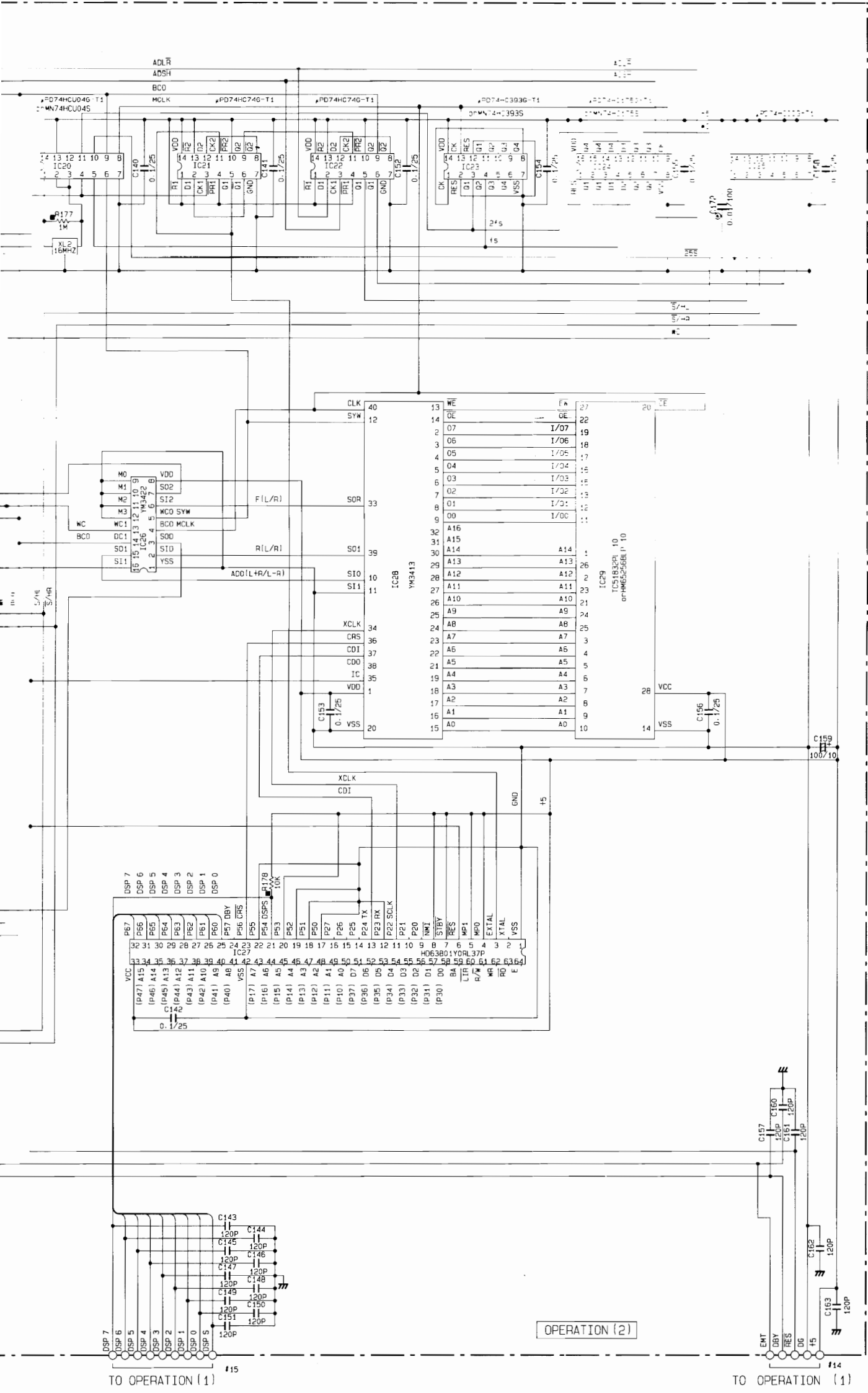


■ BLOCK DIAGRAM



■ INTERCONNECT WIRING DIAGRAM





NOTICE
(J)..... Japanese model
(U)..... U.S.A. model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... RP model

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊖	POLYESTER FILM CAPACITOR
⊖	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
⊖	SEMICONDUCTIVE CERAMIC CAPACITOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
⊗	CARBON FILM RESISTOR (1/4W)
⊖	METAL OXIDE FILM RESISTOR
⊖	METAL FILM RESISTOR
⊖	METAL PLATE RESISTOR
⊖	FIRE PROOF CARBON FILM RESISTOR
⊖	CEMENT MOUNTED RESISTOR
⊖	SEMI-VARIABLE RESISTOR
⊖	CHIP RESISTOR

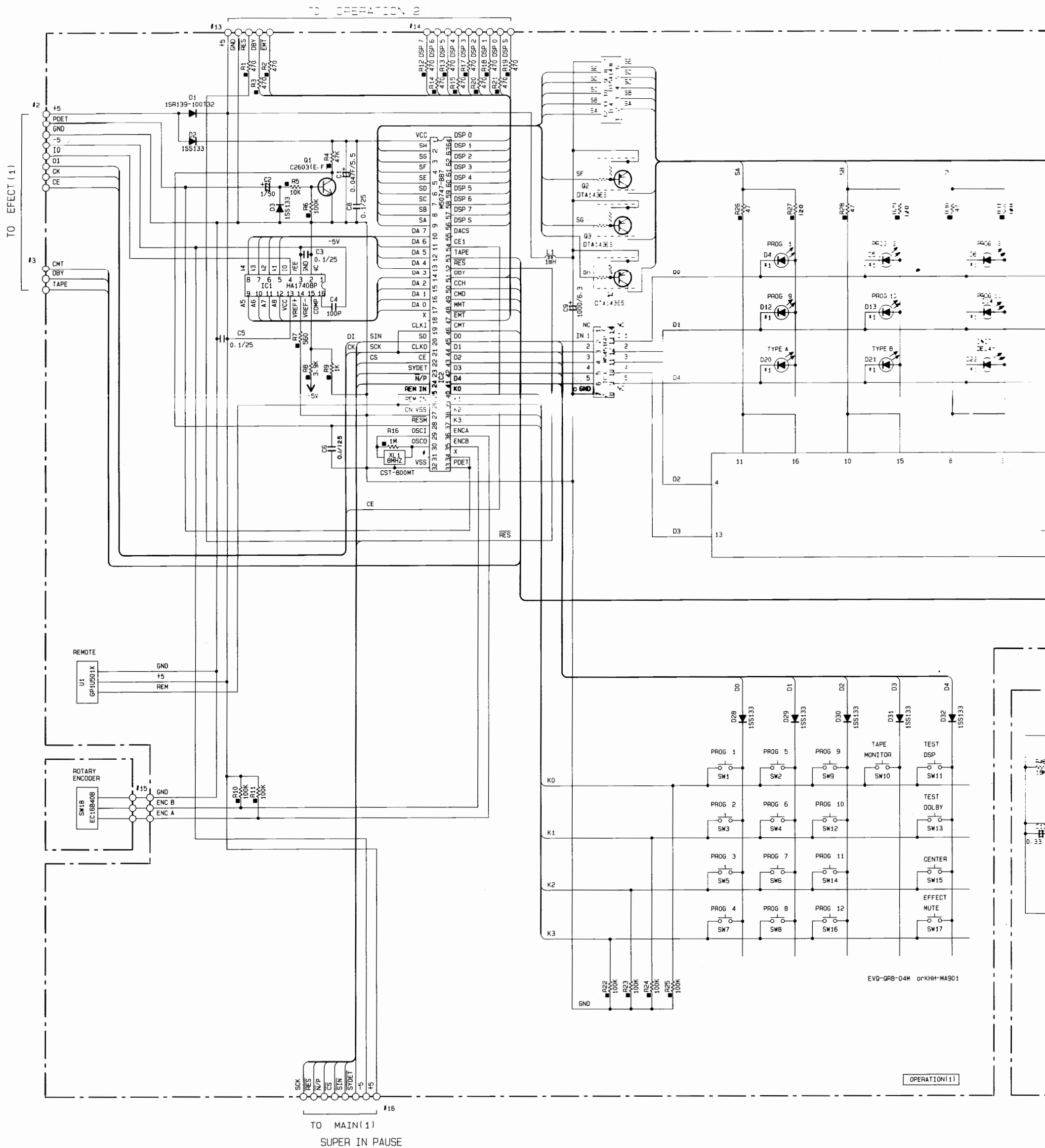
Mark	Reference Parts Number	Parts Name
#1	Q10-15	2SA1115(E.F) 2SA933S(Q.R) 2SA1309A(Q.R.S)
#2	Q12-15	2SC2878(A.B) 2SC3327 2SD1915

MAIN	MAIN AMP
EFFECT	EFFECT AMP

OPERATION	LAST NO.	UN LISTED NO.
C	177	
R	201	
Q	16	
D	37	
IC	36	

* All voltage are measured with a 10MΩ/DC electric volt meter
* Components having special characteristics are marked ⊖ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (2/4) OPERATION C. B



NOTICE
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... AP model

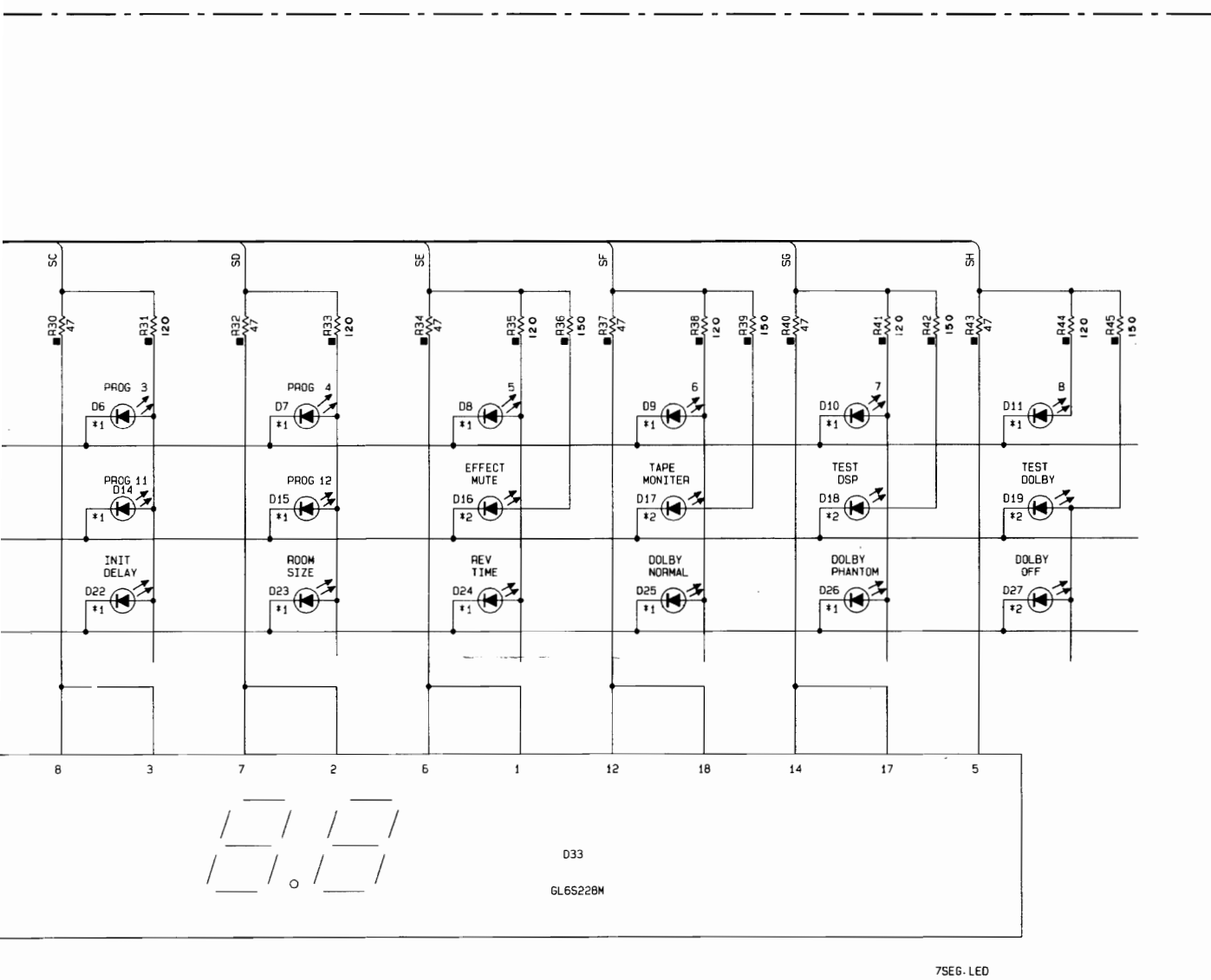
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

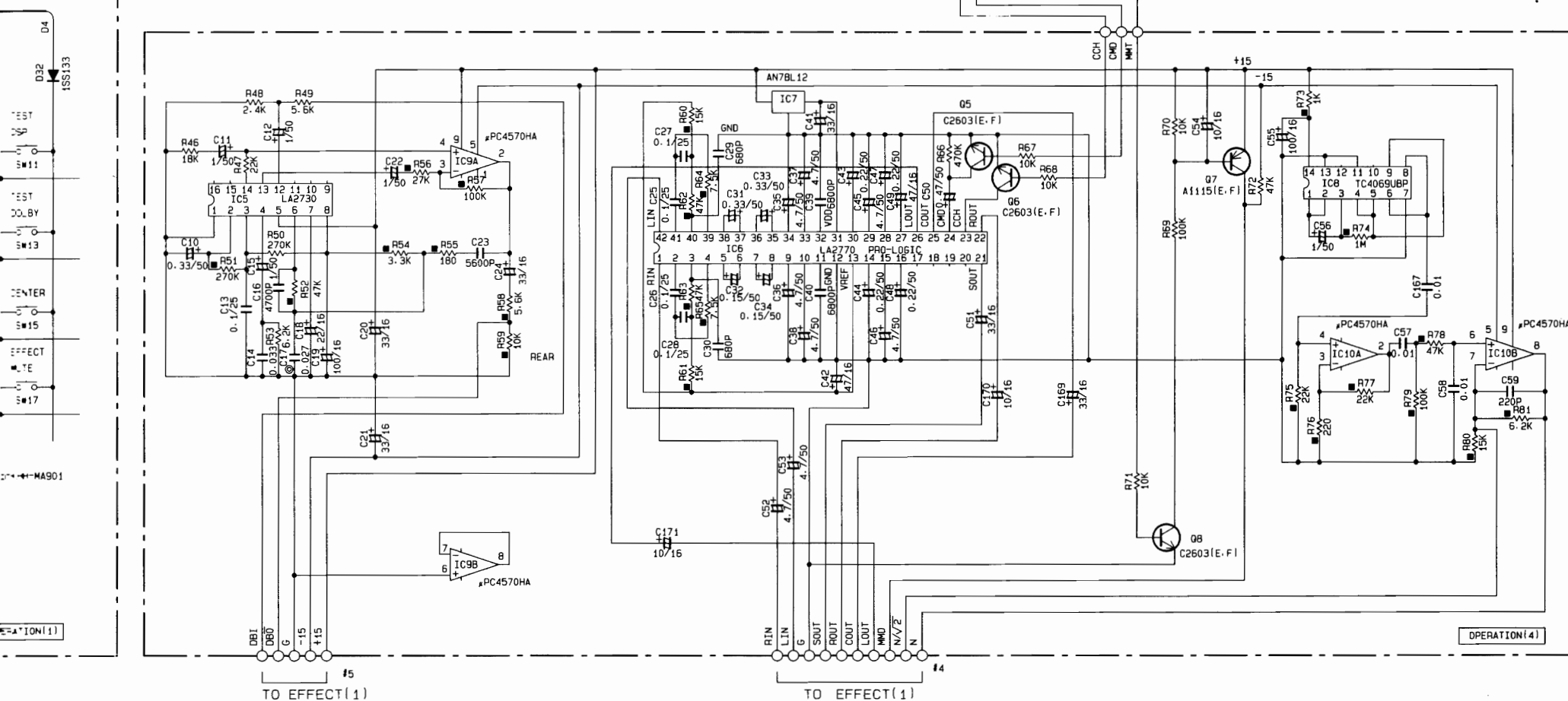
MAIN	MAIN AMP
EFFECT	EFFECT AMP

A1115(E.F)	orA9335(Q.R)	orA1309A(Q.R.S)
C2603(E.F)	orC17405(S.R)	orC3311A(Q.R.S)

OPERATION	LAST NO.	UN LISTED NO.
C	171	
R	184	
Q	16	
D	37	
IC	30	

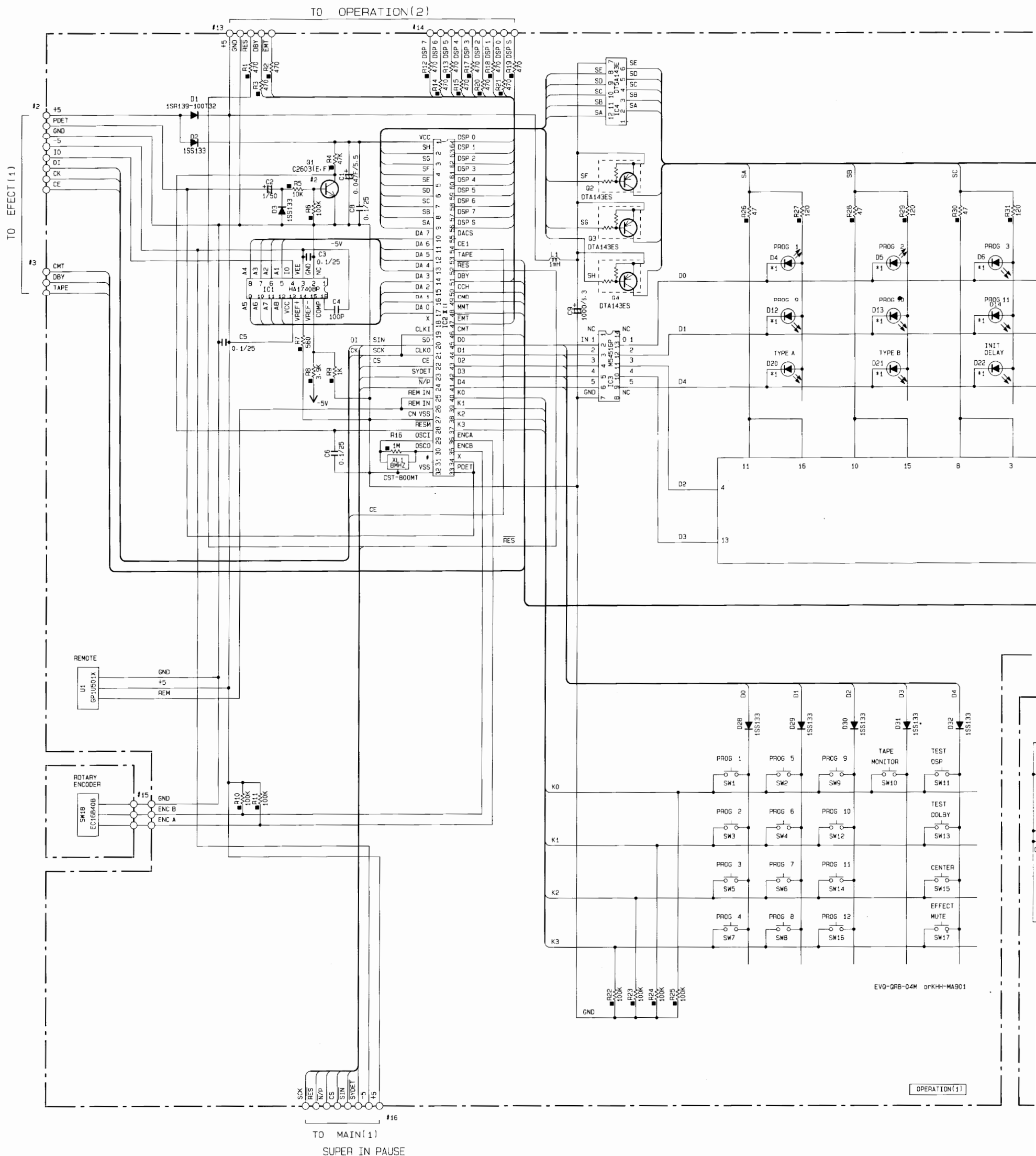


LED *1 SLR-340C3H3
*2 SLR-34VC3H3



- * All voltage are measured with a 10MΩ/DC electric volt meter.
- * Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- * Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (2/4) OPERATION C. B C / D



NOTICE

(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... RP model

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

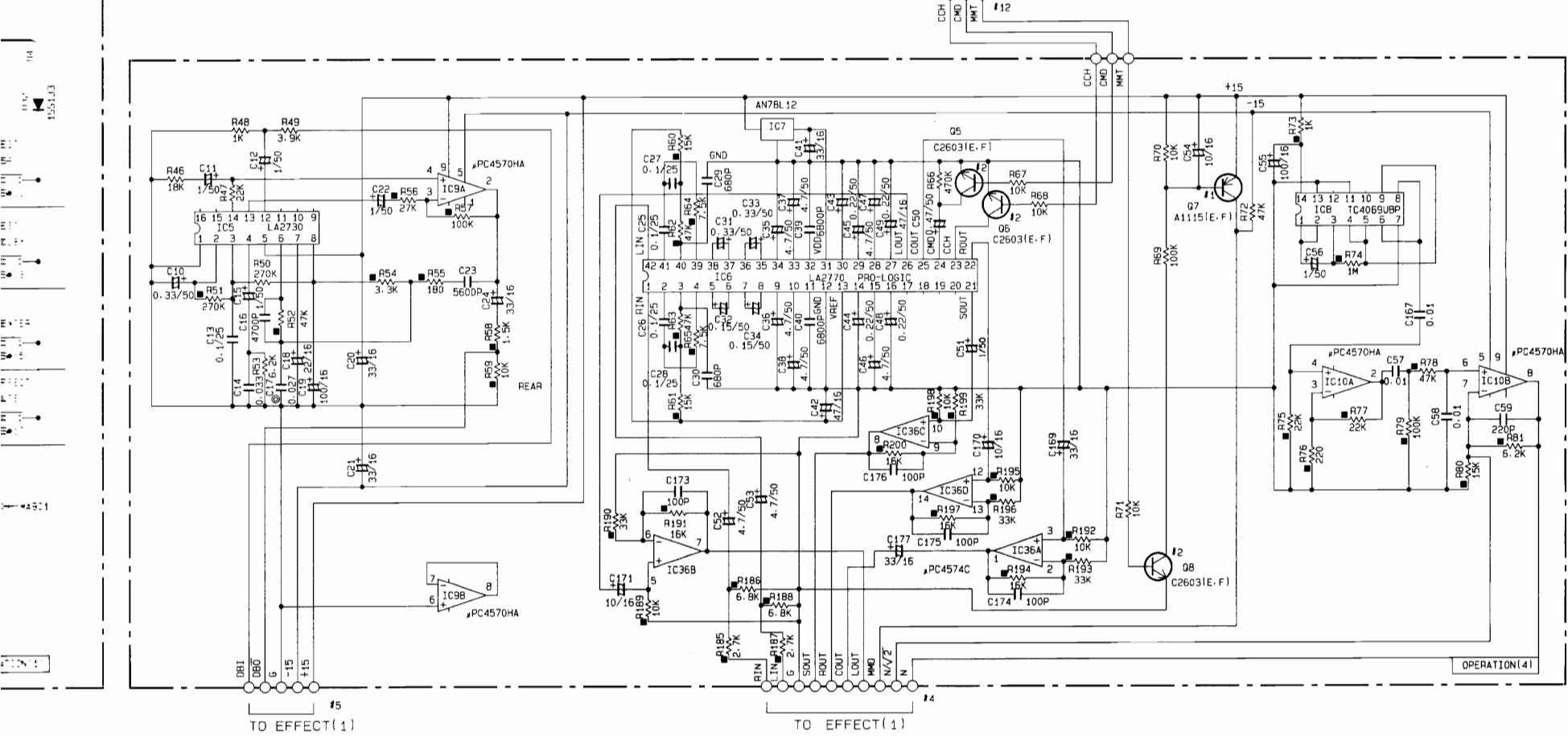
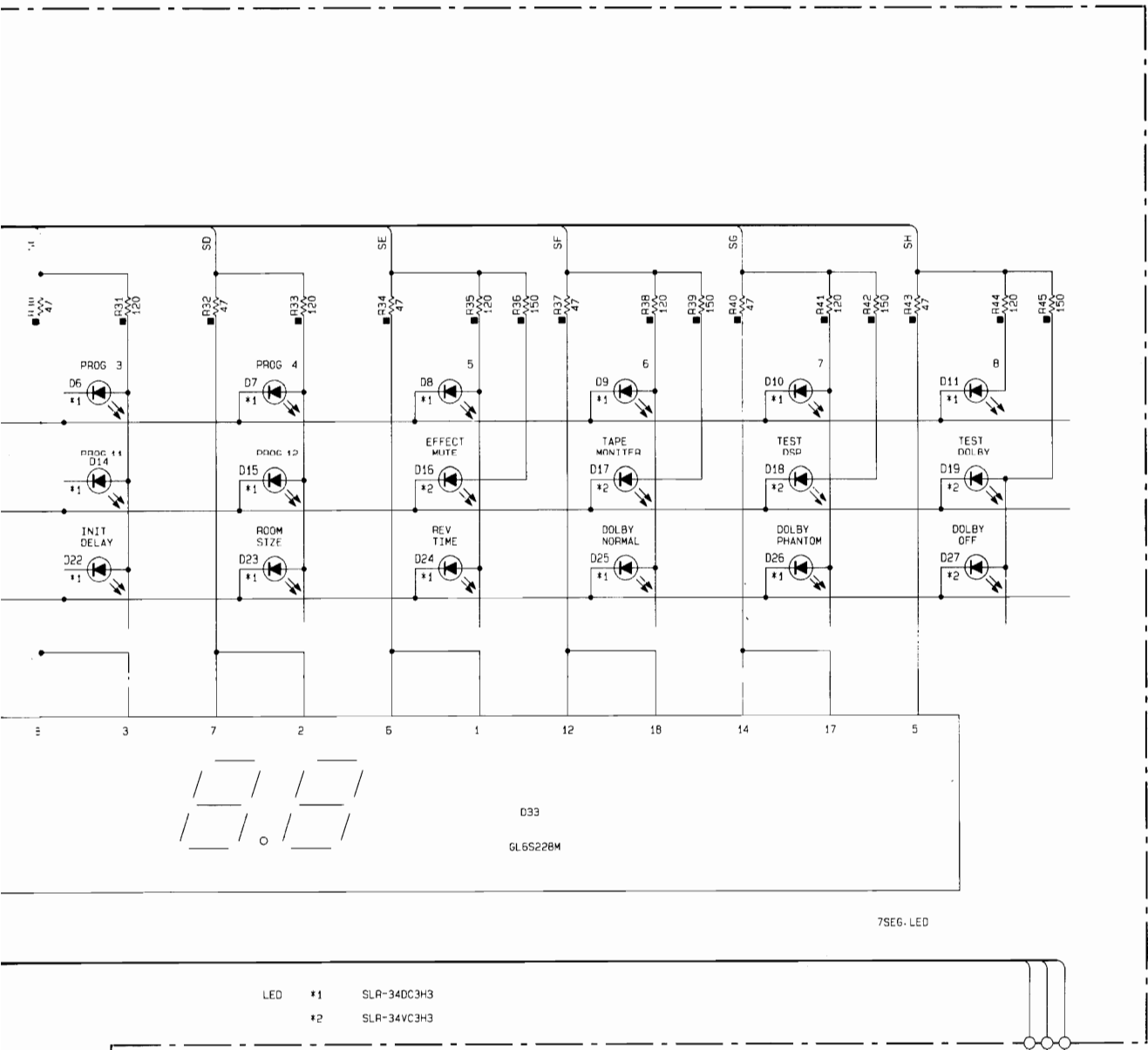
CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

MAIN	MAIN AMP
EFFECT	EFFECT AMP

X	IC2	M507
---	-----	------

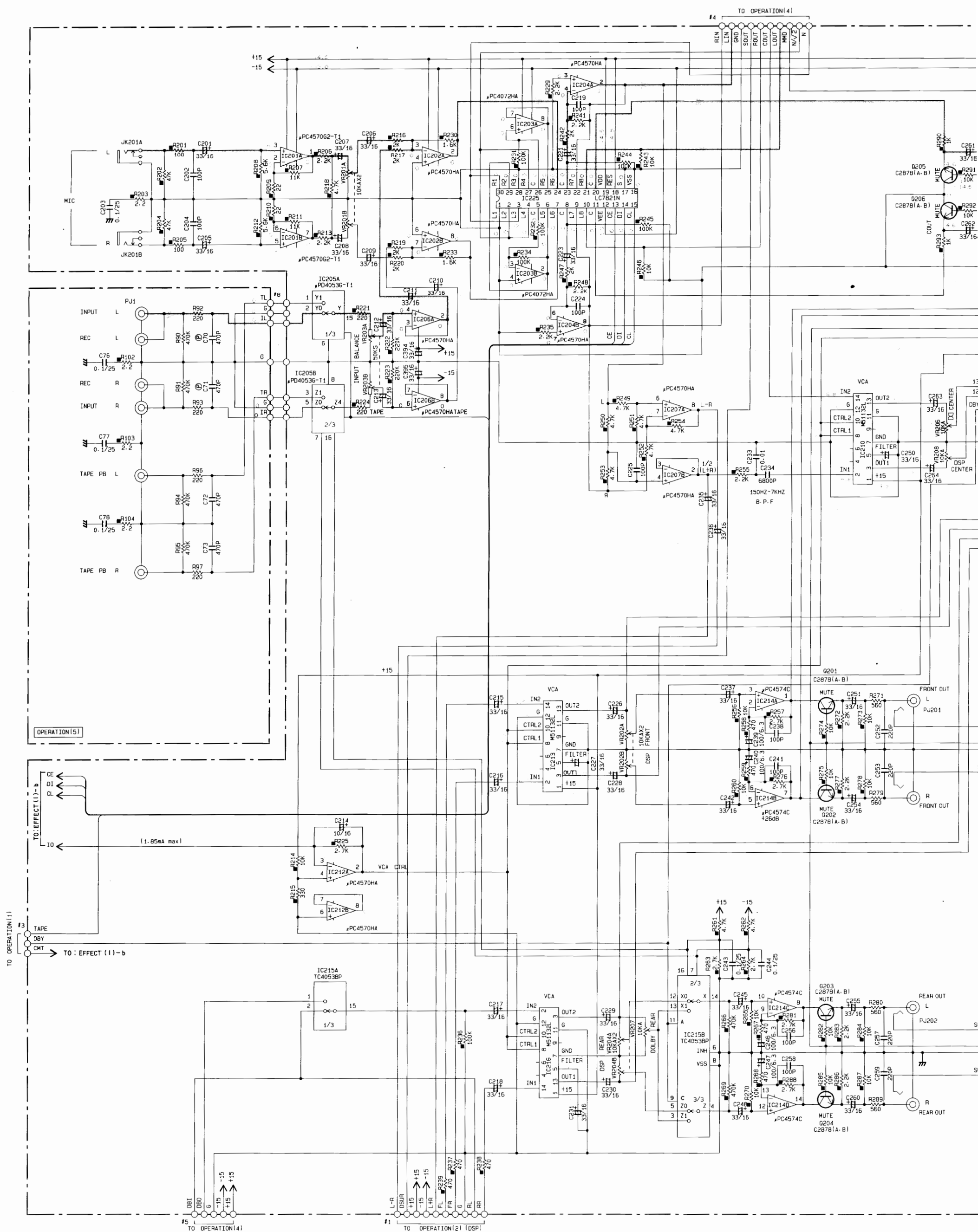
Mark	Reference Parts Number	Parts Name
#1	07	2SA1115(E.F) 2SA933S(G.R) 2SA1309A(G.R.S)
#2	01, 5, 6, 8	2SC1740S(S.R) 2SC2603(E.F) 2SC331A(G.R.S)



X	J	U.C	R,A,B,G
II IC2	M50747-B87	M50747-C36	M50747-B87

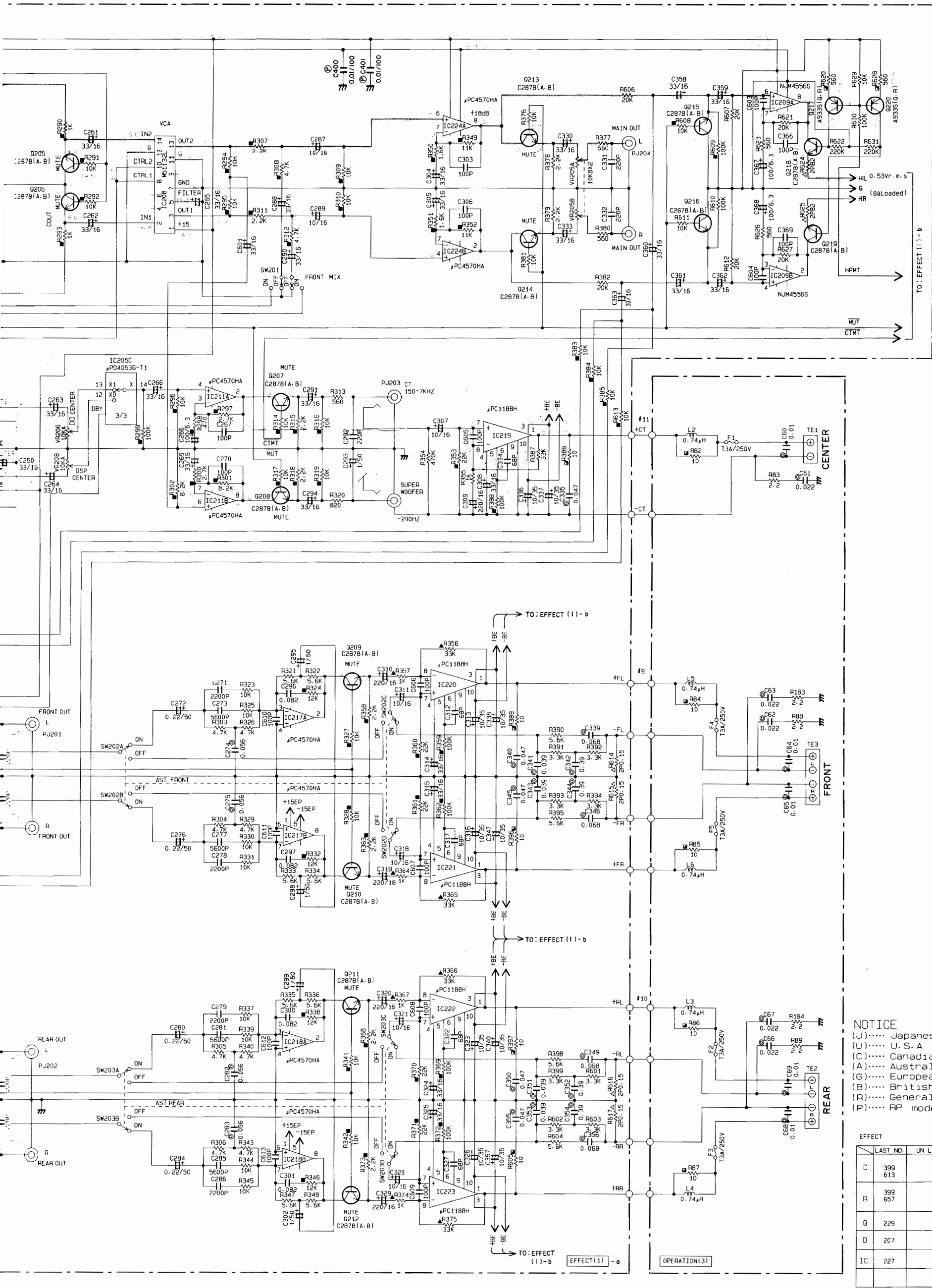
* All voltage are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

■ **SCHEMATIC DIAGRAM (3/4)EFFECT AMP C. B** **C**



RESISTOR		
REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR (1/6W)	
☒	CARBON FILM RESISTOR (1/4W)	
☐	METAL OXIDE FILM RESISTOR	
☐	METEL FILM RESISTOR	
☒	METEL PLATE RESISTOR	
☐	FIRE PROOF CARBON FILM RESISTOR	
☐	SEMENT MOLDED RESISTOR	
☒	SEMI VARIABLE RESISTOR	
☐	CHIP RESISTOR	

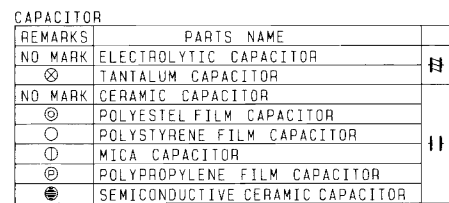
CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	H
⊙	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
②	POLYPROPYLENE FILM CAPACITOR	
⊕	SEMICONDUCTIVE CERAMIC CAPACITOR	

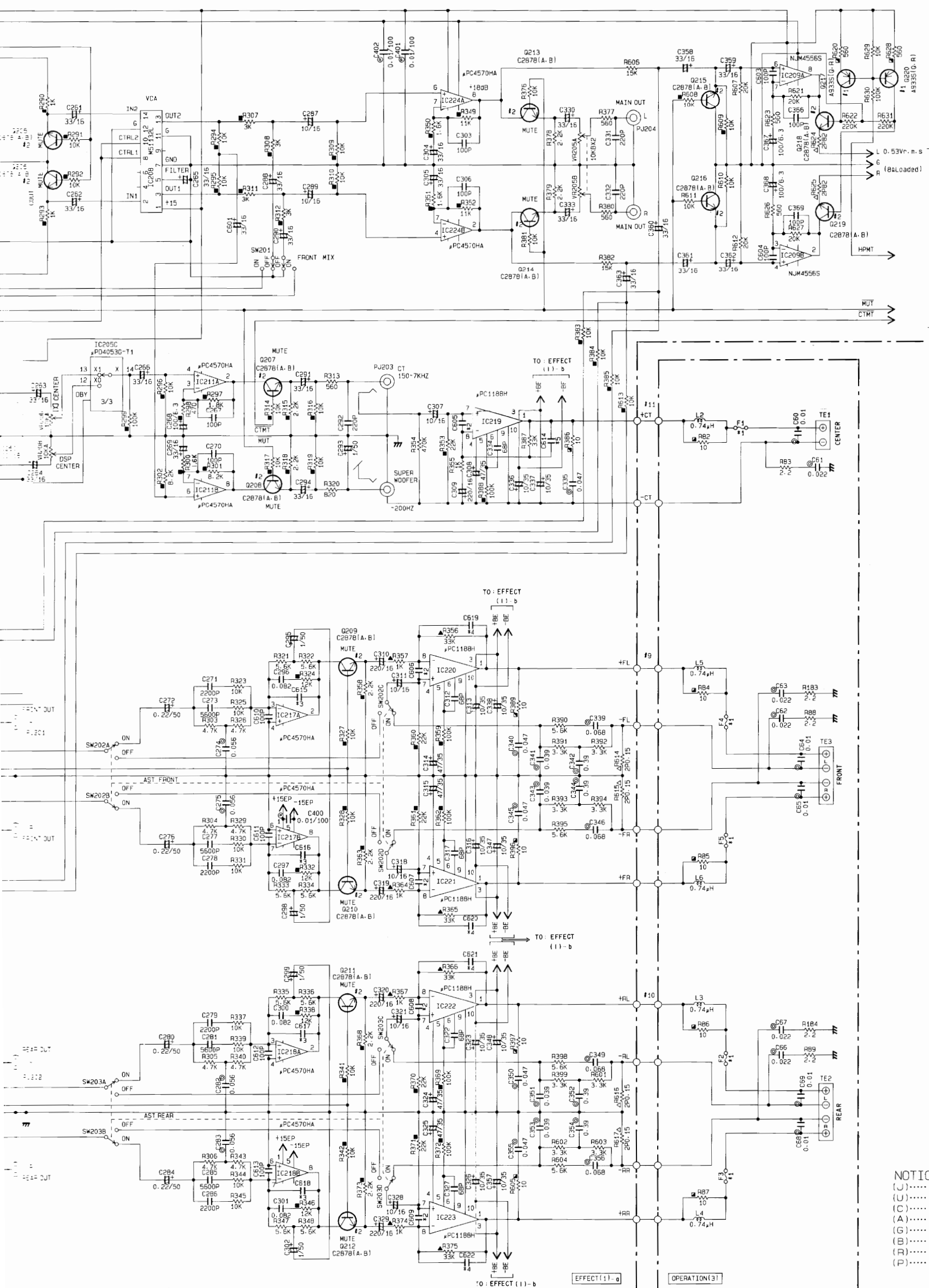


NOTICE
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(P)..... General model
(P)..... RP model

EFFECT	
LAST NO.	UN LISTED NO.
C	399 613
R	399 657
Q	229
D	207
IC	227

* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.



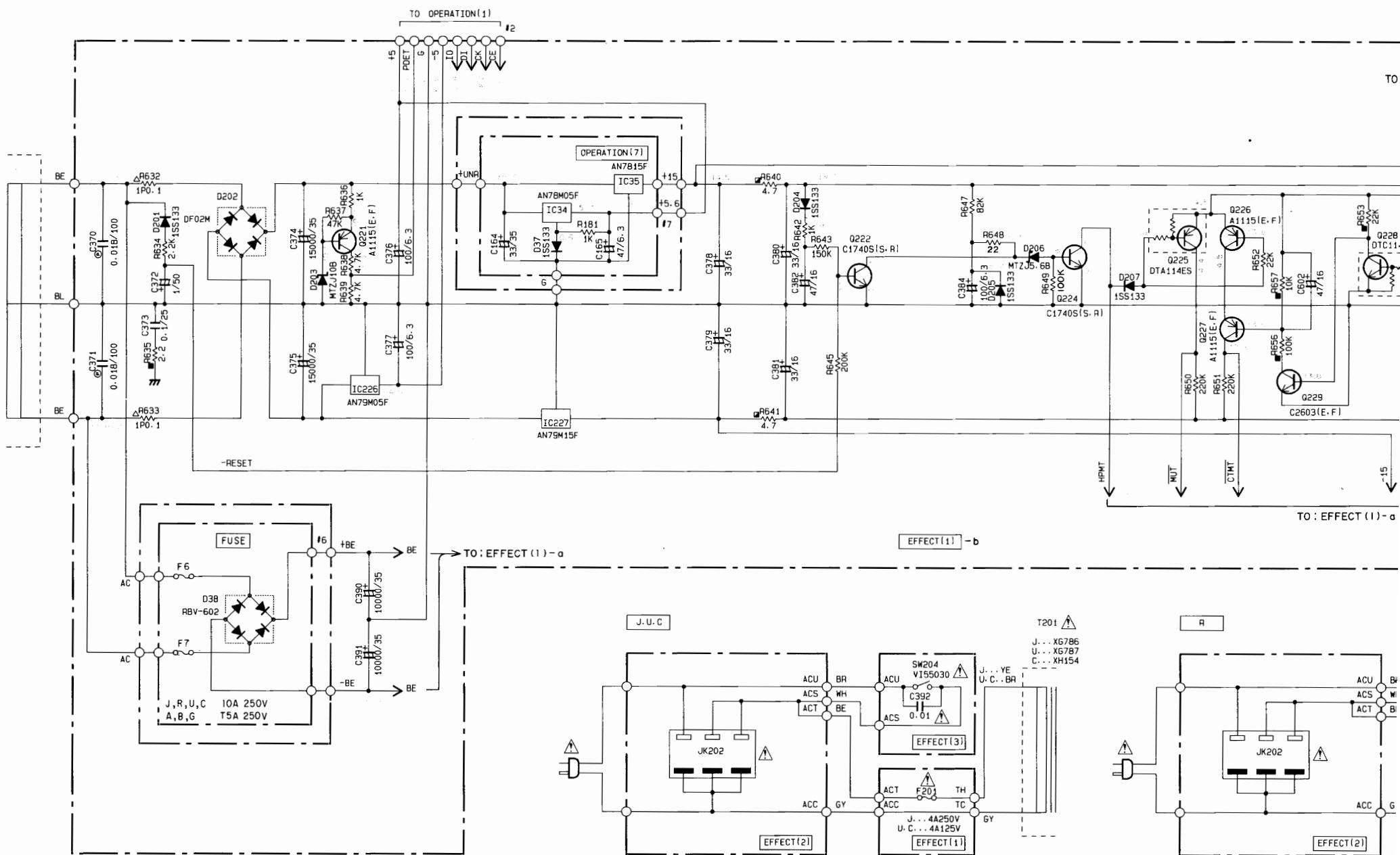
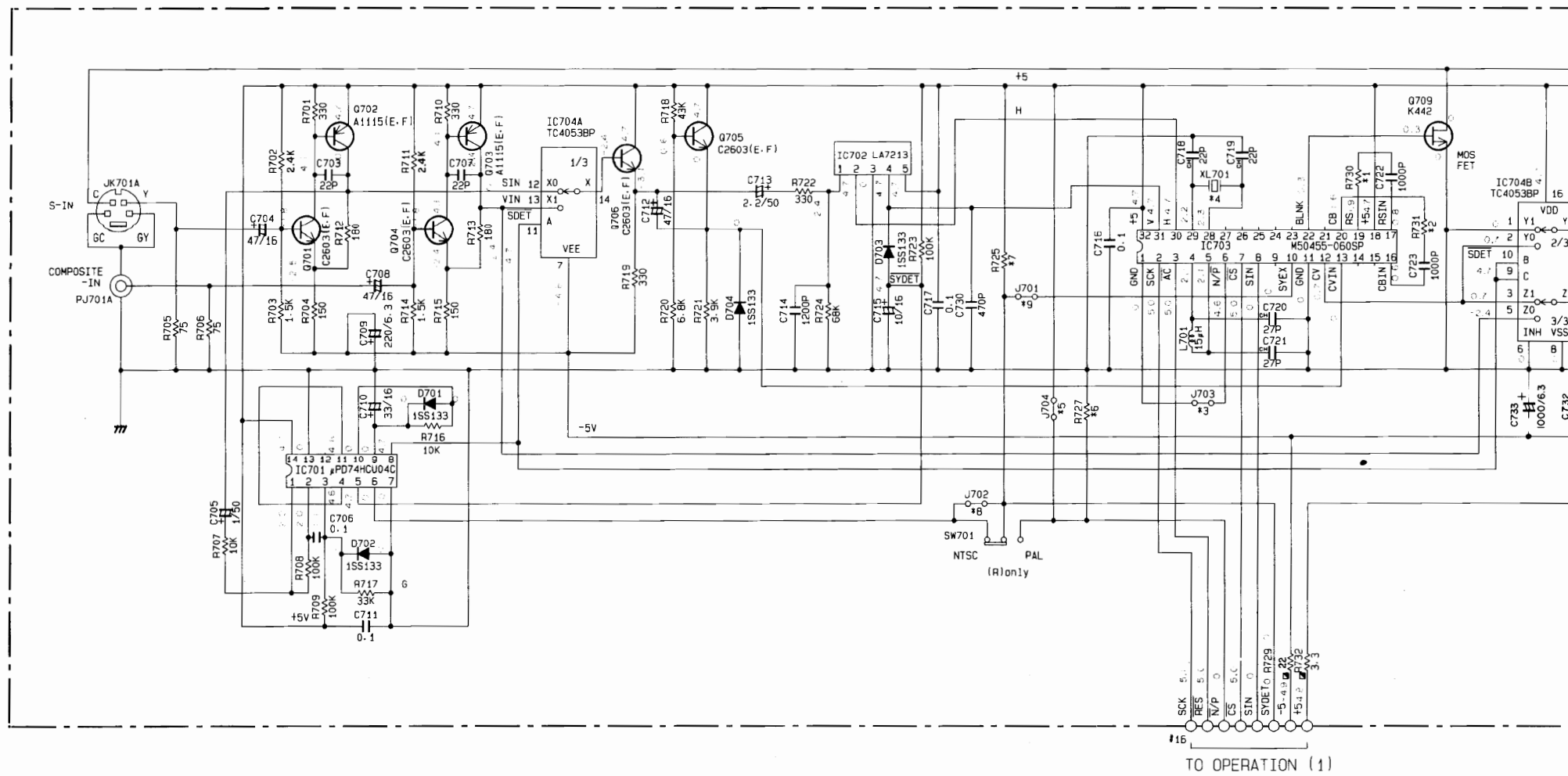


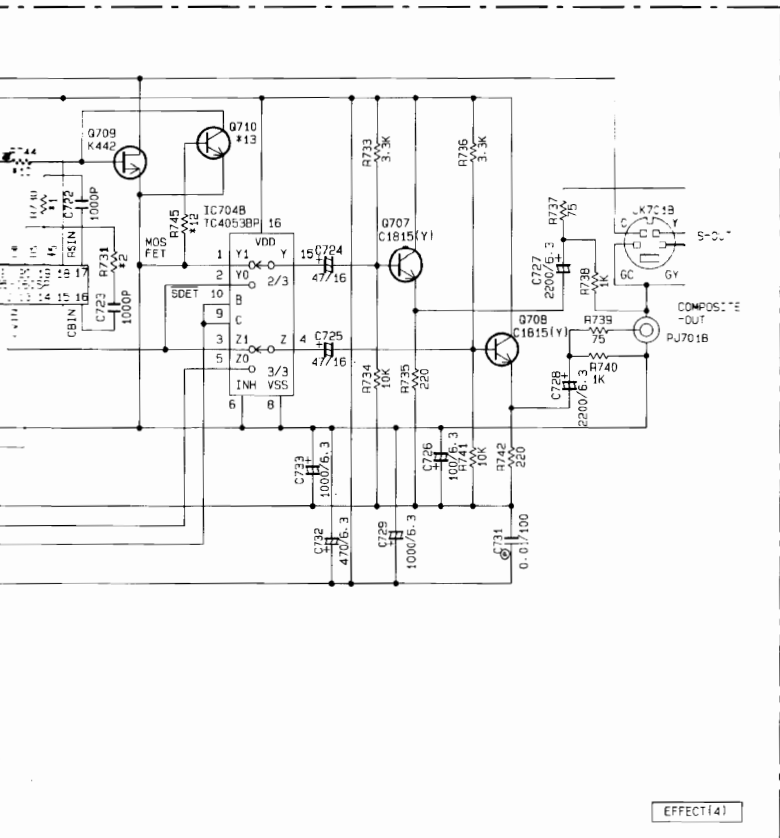
TO EFFECT (1)-b

NOTICE
 (J)..... Japanese model
 (U)..... U.S.A model
 (C)..... Canadian model
 (A)..... Australian model
 (G)..... European model
 (B)..... British model
 (R)..... General model
 (P)..... RP model

* All voltage are measured with a 10MΩ/DC electric volt meter
 * Components having special characteristics are marked Δ
 and must be replaced with parts having specifications equivalent to those originally installed.
 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (4/4)EFFECT AMP C. B C





MAIN	MAIN AMP
EFFECT	EFFECT AMP

				A.B.G.
*1	Q709	10K		2.7K
*2	Q710	10K		4.7K
*3	Q707	OPEN		SHORT
*4	Q708	10K		10K
*5	Q709	OPEN		SHORT
*6	Q710	SHORT		OPEN
*7	Q707	OPEN		OPEN
*8	Q708	SHORT		SHORT
*9	Q709	OPEN		OPEN
*10	Q710	SHORT		SHORT
*11	Q707	SHORT		10K
*12	Q708	OPEN		2.7K
*13	Q709	OPEN		4.7K
*14	Q710	OPEN		COMPOSITE

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	11
⊗	TANTALUM CAPACITOR	11
NO MARK	CERAMIC CAPACITOR	11
⊙	POLYESTER FILM CAPACITOR	11
○	POLYSTYRENE FILM CAPACITOR	11
⊖	MICA CAPACITOR	11
⊕	POLYPROPYLENE FILM CAPACITOR	11
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	11

REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR	11
⊗	CARBON FILM RESISTOR	11
⊙	METAL OXIDE FILM RESISTOR	11
⊖	METAL FILM RESISTOR	11
⊕	METAL PLATE RESISTOR	11
⊗	FIRE PROOF CARBON FILM RESISTOR	11
⊙	CEMENT MOLDED RESISTOR	11
⊖	SEMI VARIABLE RESISTOR	11
⊕	CHIP RESISTOR	11

Interchangeable Parts at Manufacture-Stage

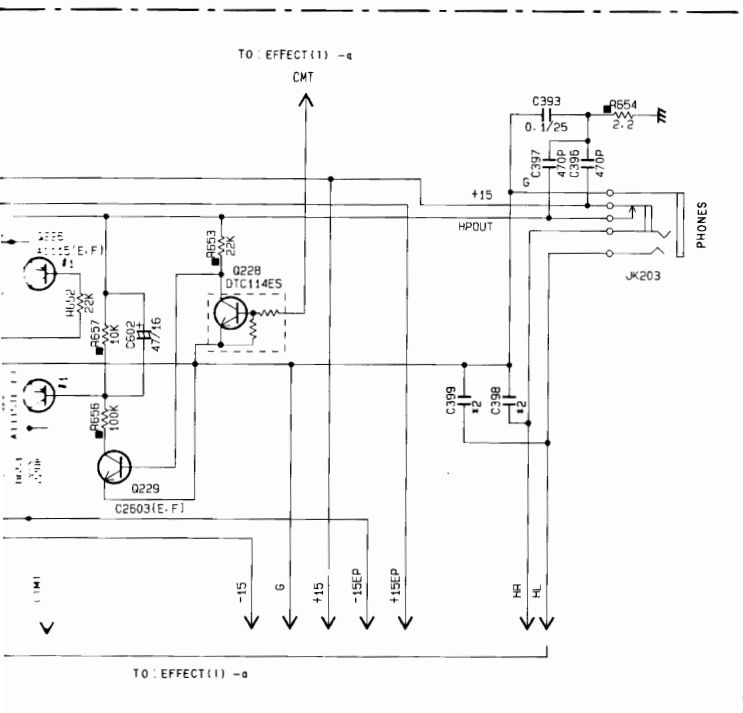
Mark	Reference Parts Number	Parts Name
#1	G702-703	25A1115(E.F) 25A9335(I.G.R) 25A1309A(I.G.R.S)
#2	G701-704-706	25C2603(E.F) 25C17415(E.F) 25C3311A(I.G.R.S)

NOTICE

- (J)..... Japanese model
- (U)..... U.S.A model
- (C)..... Canadian model
- (A)..... Australian model
- (G)..... European model
- (B)..... British model
- (R)..... General model
- (P)..... RP model

EFFECT

	LAST NO.	UN LISTED NO.
C	733	
R	745	
D	710	
IC	724	



NOTICE

- (J)..... Japanese model
- (U)..... U.S.A model
- (C)..... Canadian model
- (A)..... Australian model
- (G)..... European model
- (B)..... British model
- (R)..... General model
- (P)..... RP model

REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR (1/6W)	11
⊗	CARBON FILM RESISTOR (1/4W)	11
⊙	METAL OXIDE FILM RESISTOR	11
⊖	METAL FILM RESISTOR	11
⊕	METAL PLATE RESISTOR	11
⊗	FIRE PROOF CARBON FILM RESISTOR	11
⊙	CEMENT MOLDED RESISTOR	11
⊖	SEMI VARIABLE RESISTOR	11
⊕	CHIP RESISTOR	11

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	11
⊗	TANTALUM CAPACITOR	11
NO MARK	CERAMIC CAPACITOR	11
⊙	POLYESTER FILM CAPACITOR	11
○	POLYSTYRENE FILM CAPACITOR	11
⊖	MICA CAPACITOR	11
⊕	POLYPROPYLENE FILM CAPACITOR	11
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	11

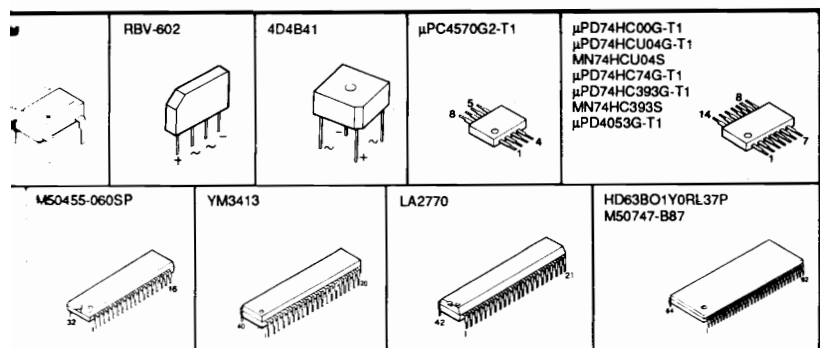
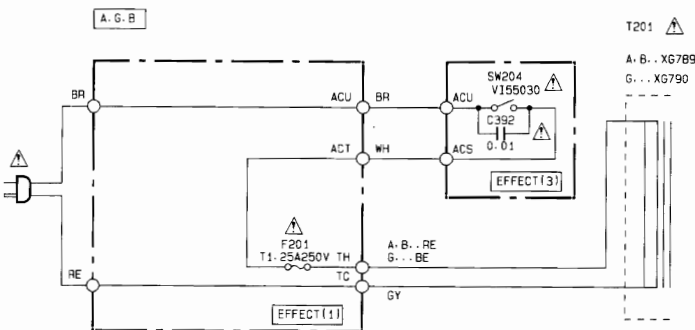
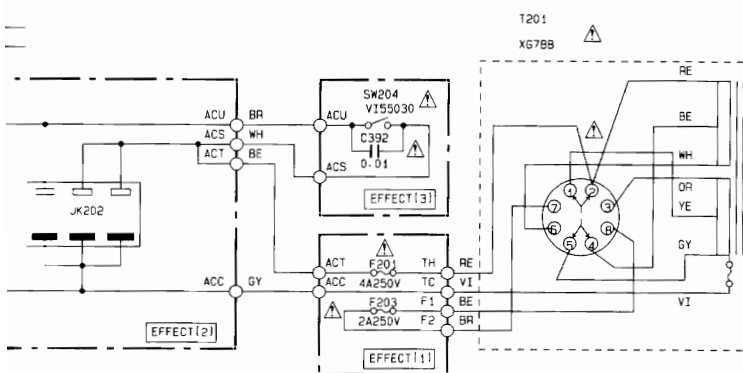
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
#1	G221-226-227	25A1115(E.F) 25A9335(I.G.R) 25A1309A(I.G.R.S)
#2	G222-224	25C17405(S.R) 25C2603(E.F) 25C3311A(I.G.R.S)

MAIN	MAIN AMP
EFFECT	EFFECT AMP

EFFECT

	LAST NO.	UN LISTED NO.
C	402 622	
R	400 657	
D	229	
IC	207 227	

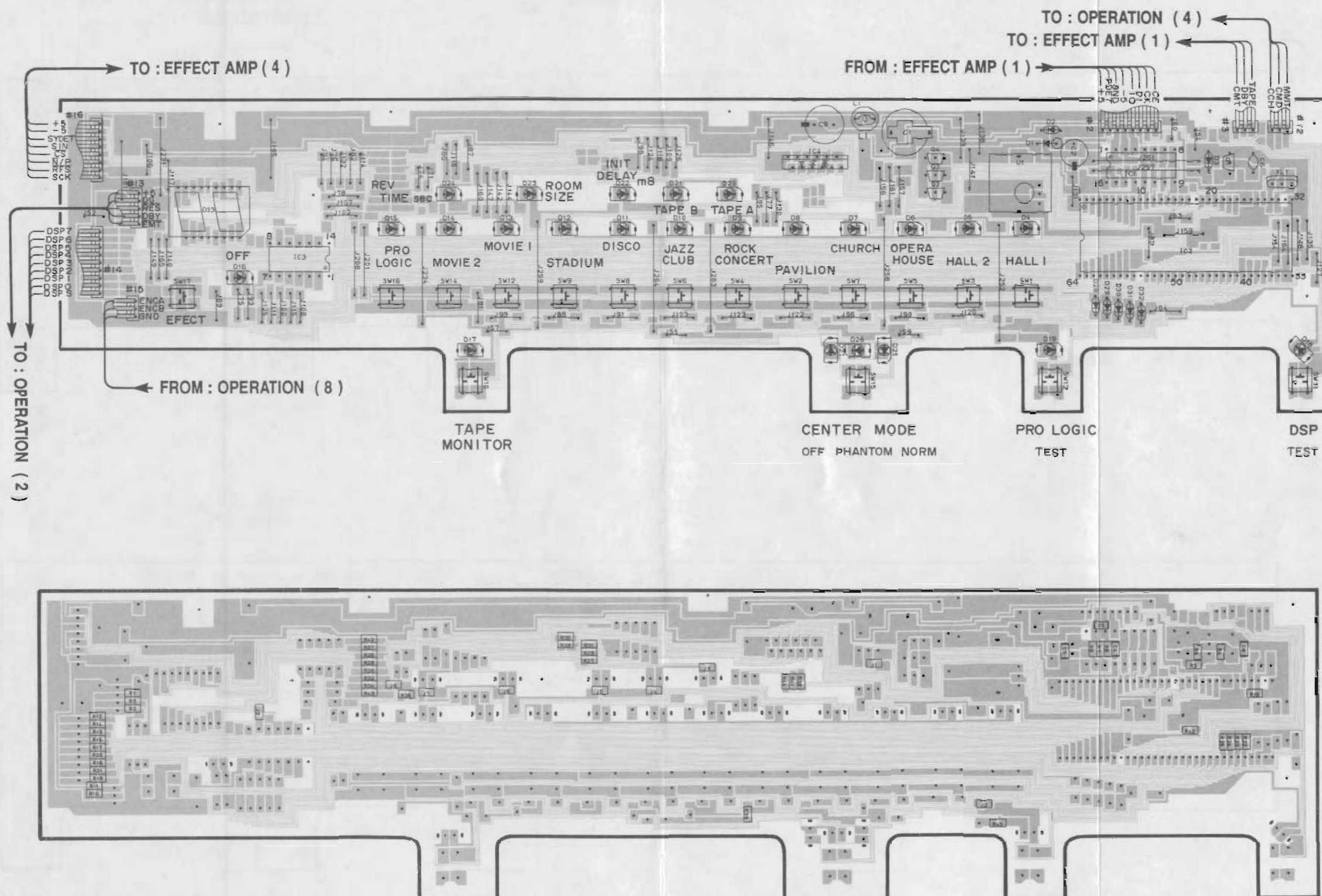


* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

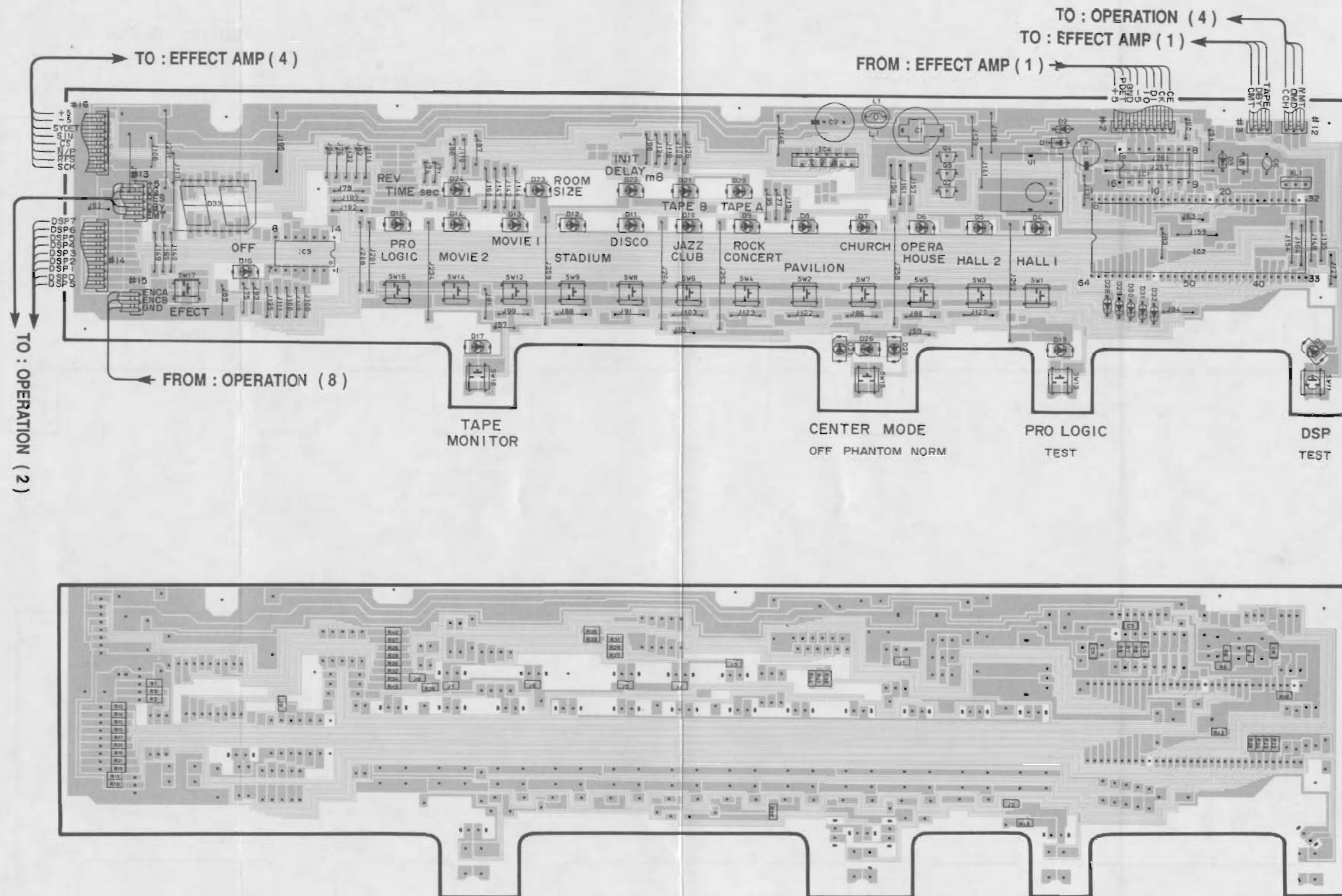
OPERATION C. B B (1)



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

OPERATION C. B C / D (1)

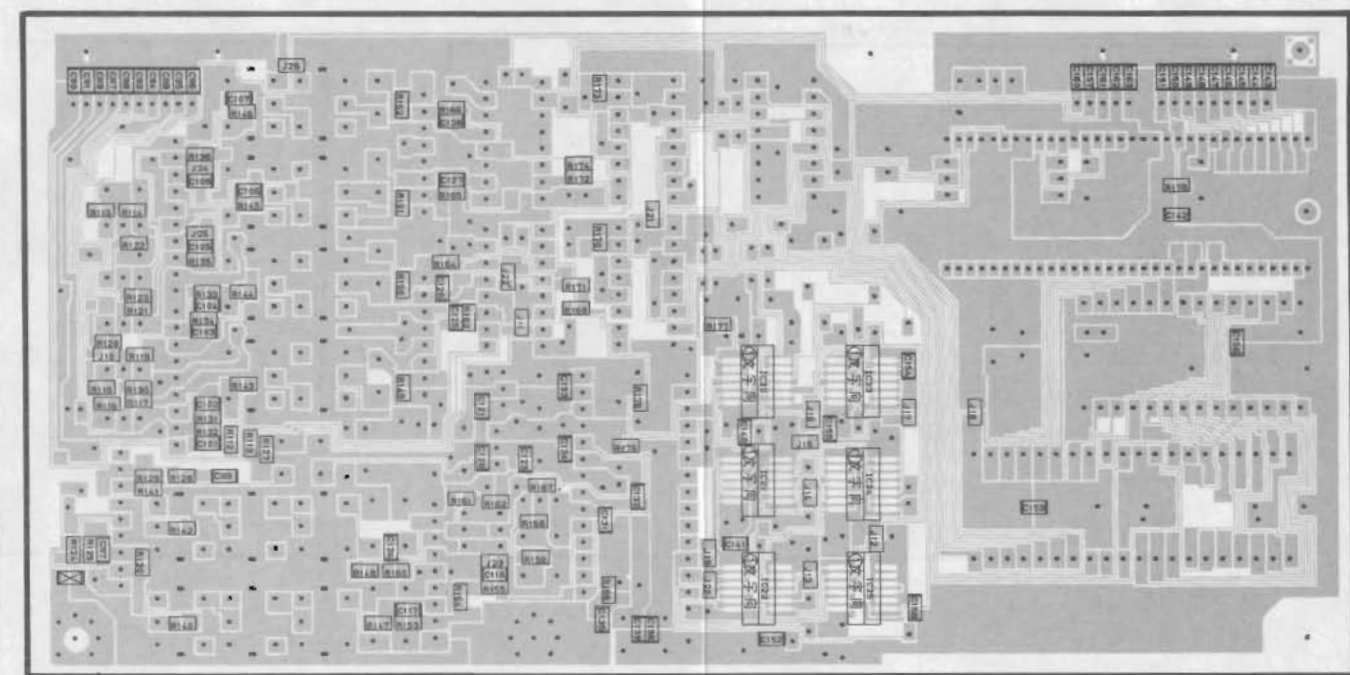
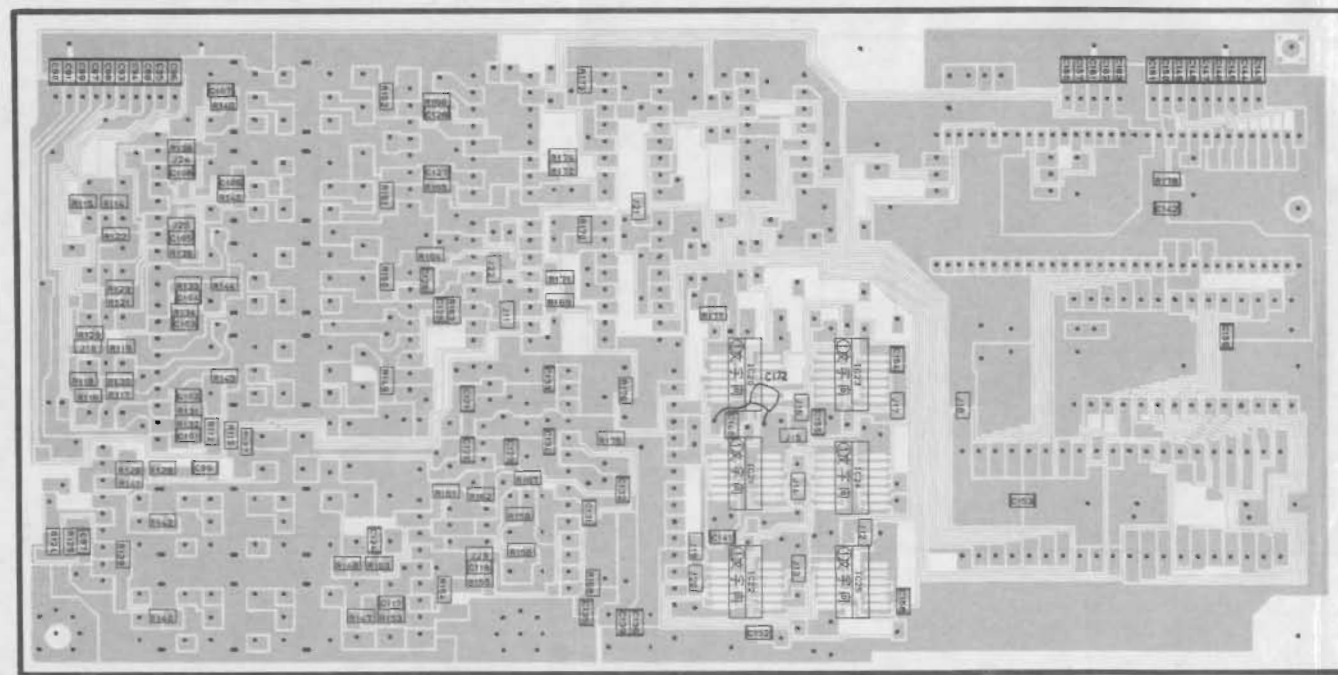
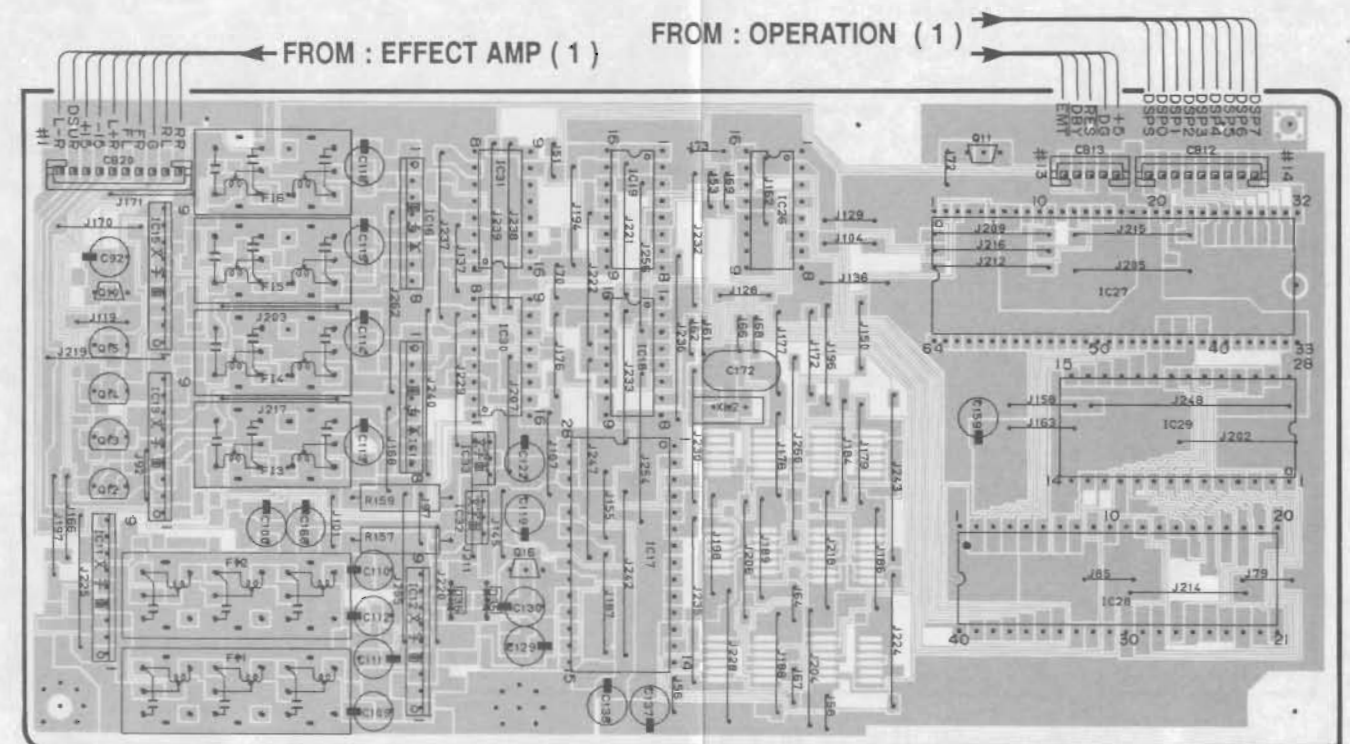
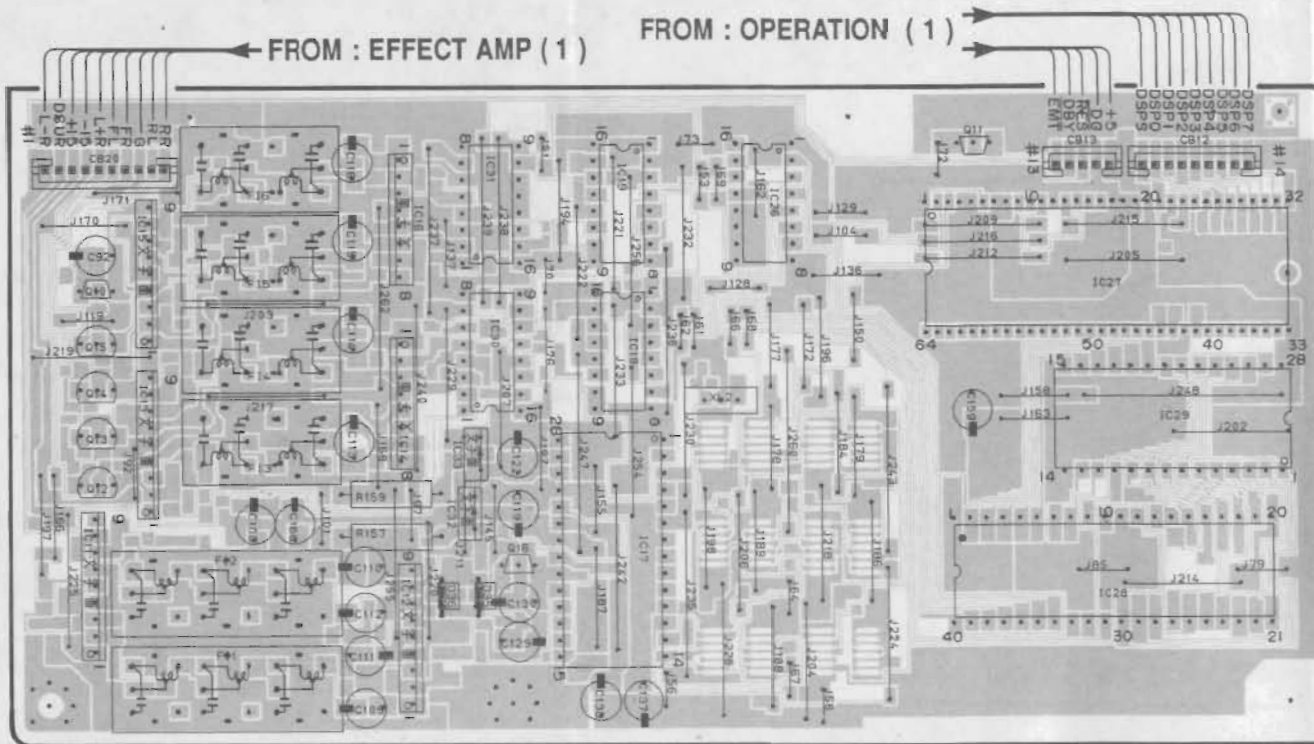


■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

OPERATION C. B B (2)

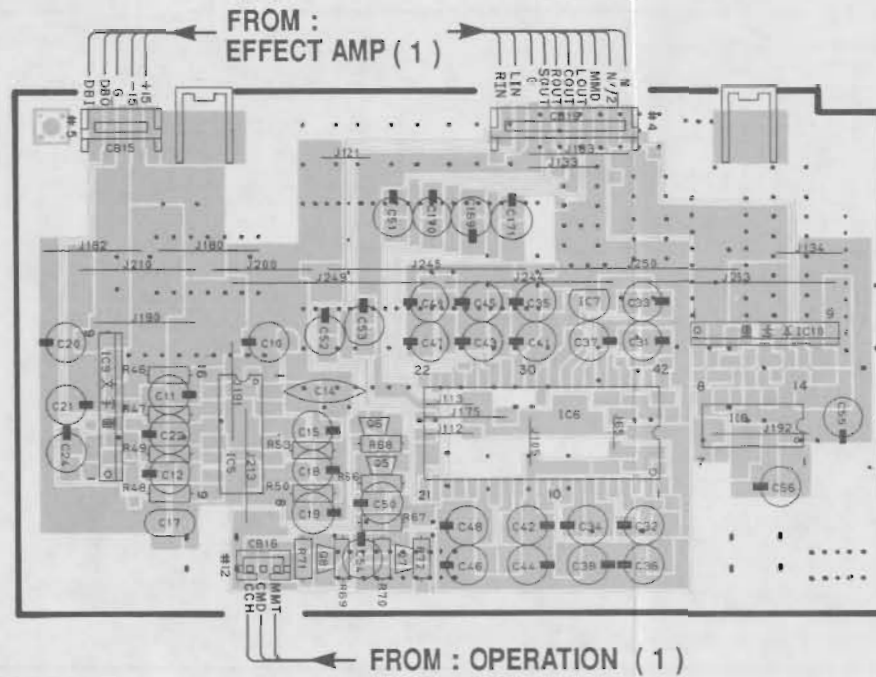
OPERATION C. B C / D (2)



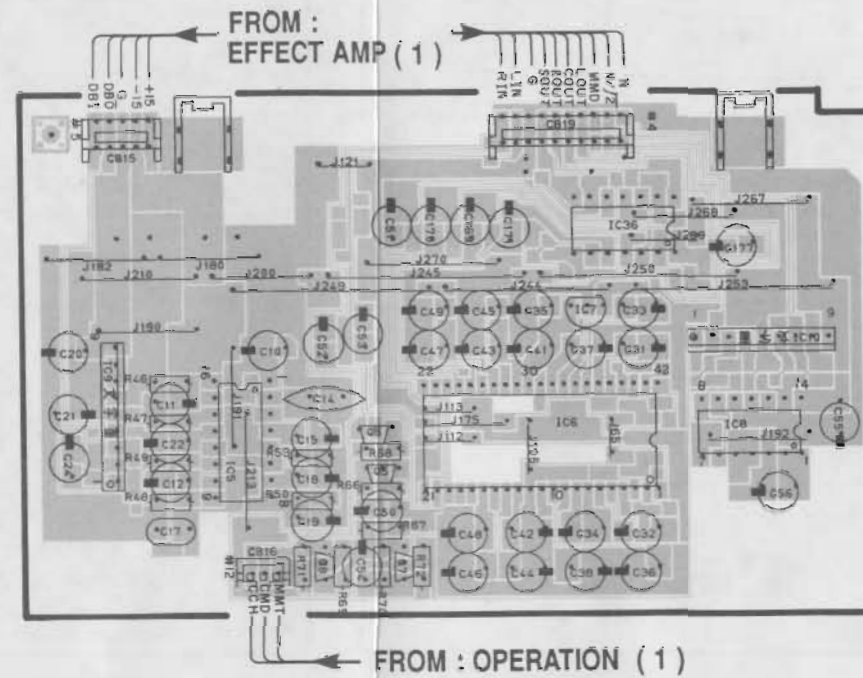
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

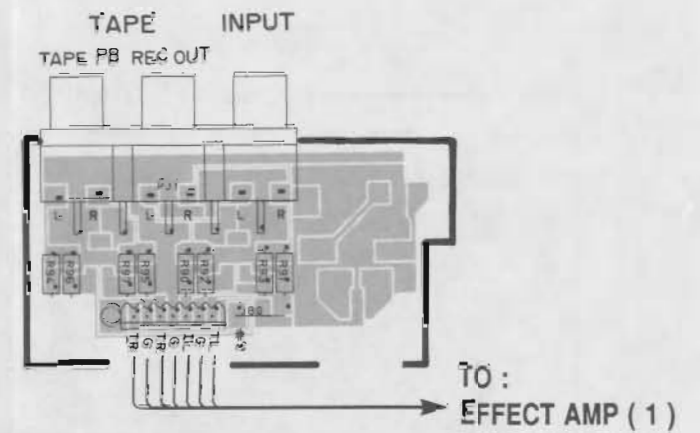
OPERATION C. B B (4)



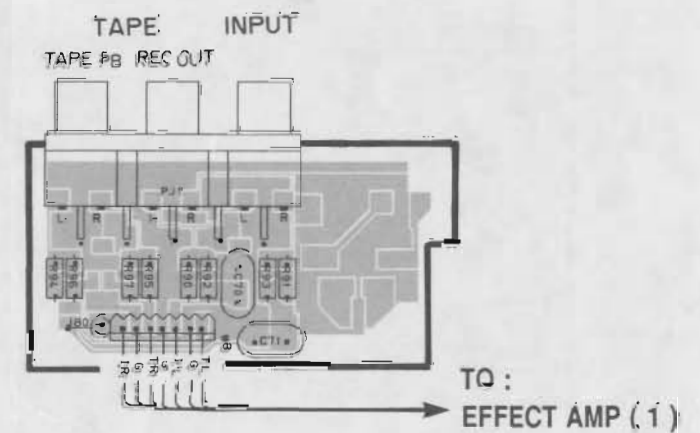
OPERATION C. B C / D (4)



OPERATION C. B B (5)



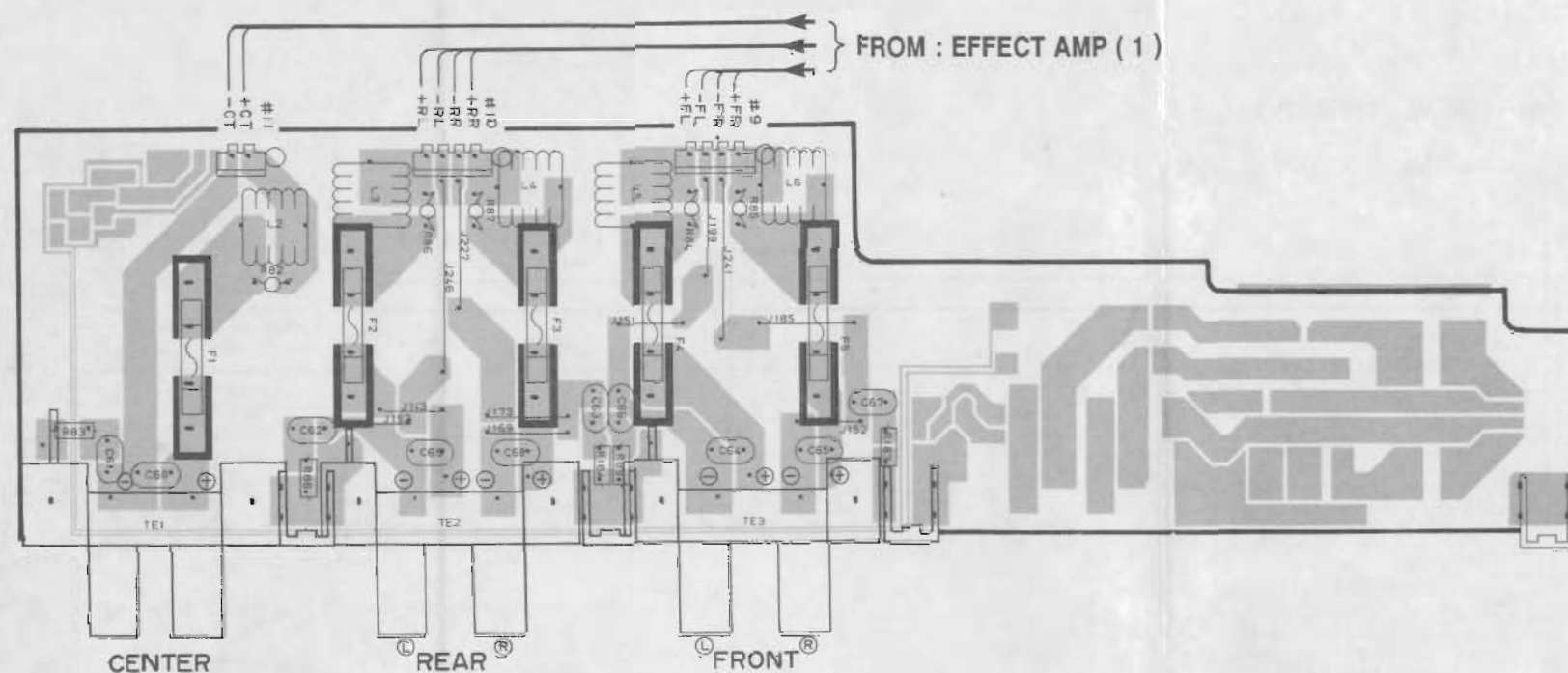
OPERATION C. B C / D (5)



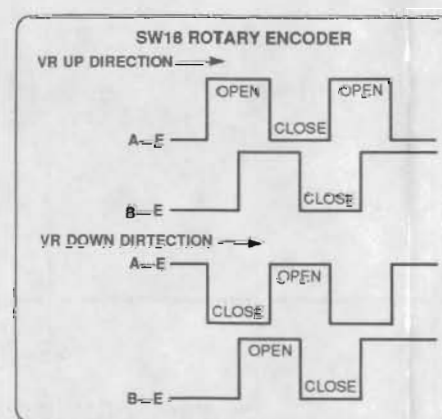
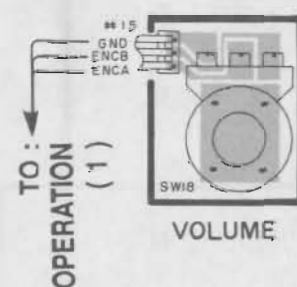
■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

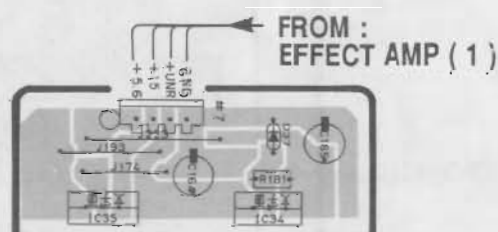
OPERATION C. B (3)



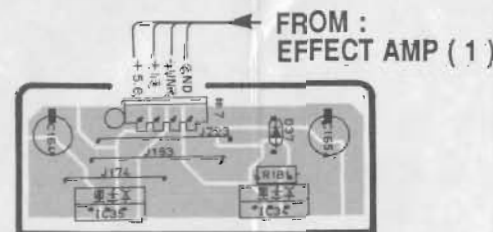
OPERATION C. B (8)



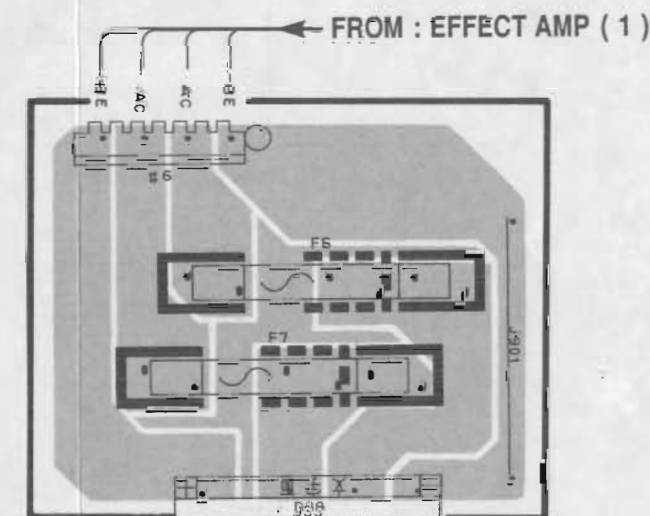
OPERATION C. B B (7)



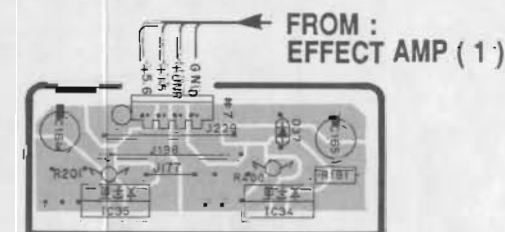
OPERATION C. B C (7)



FUSE C. B



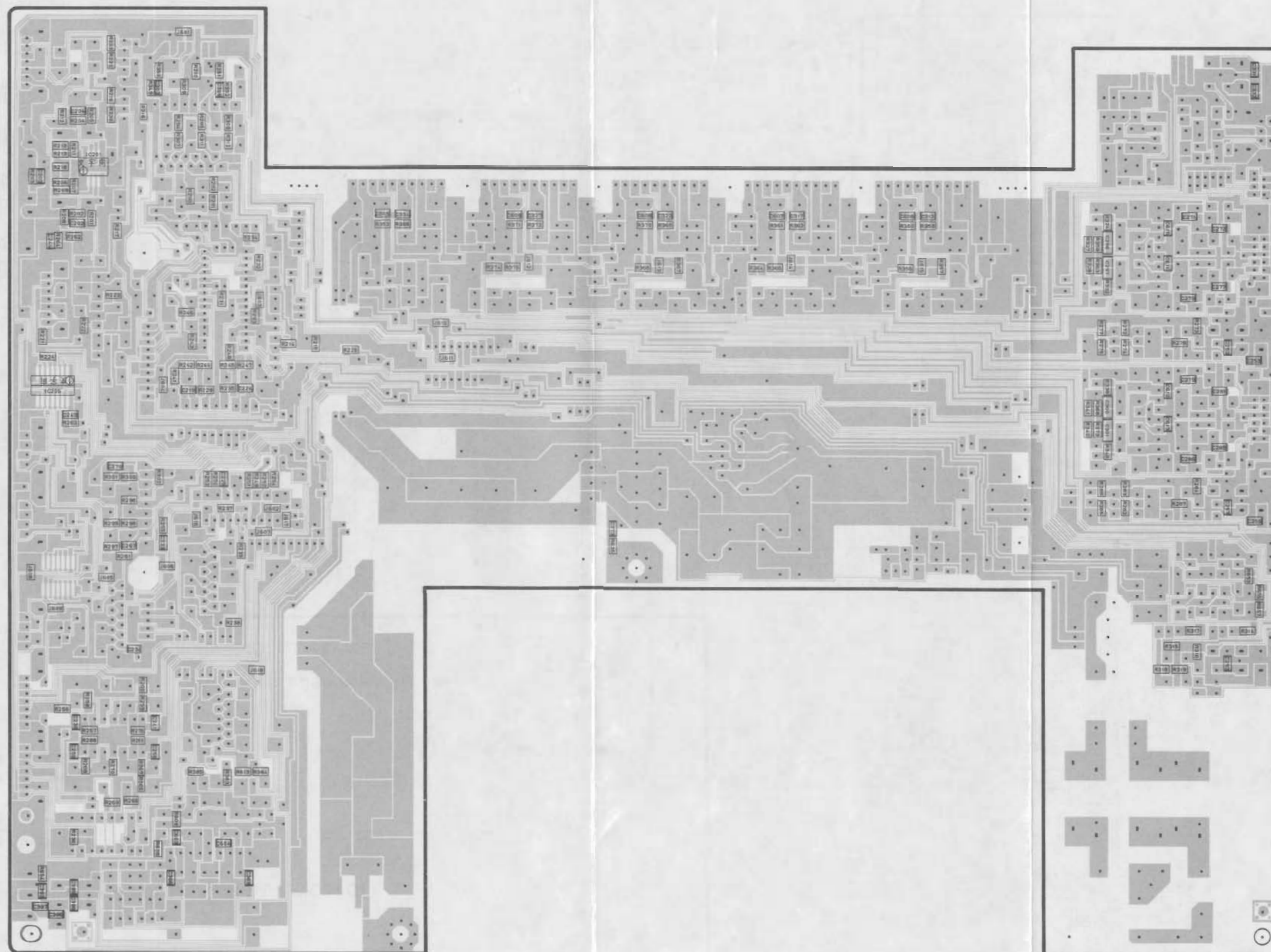
OPERATION C. B D (7)



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

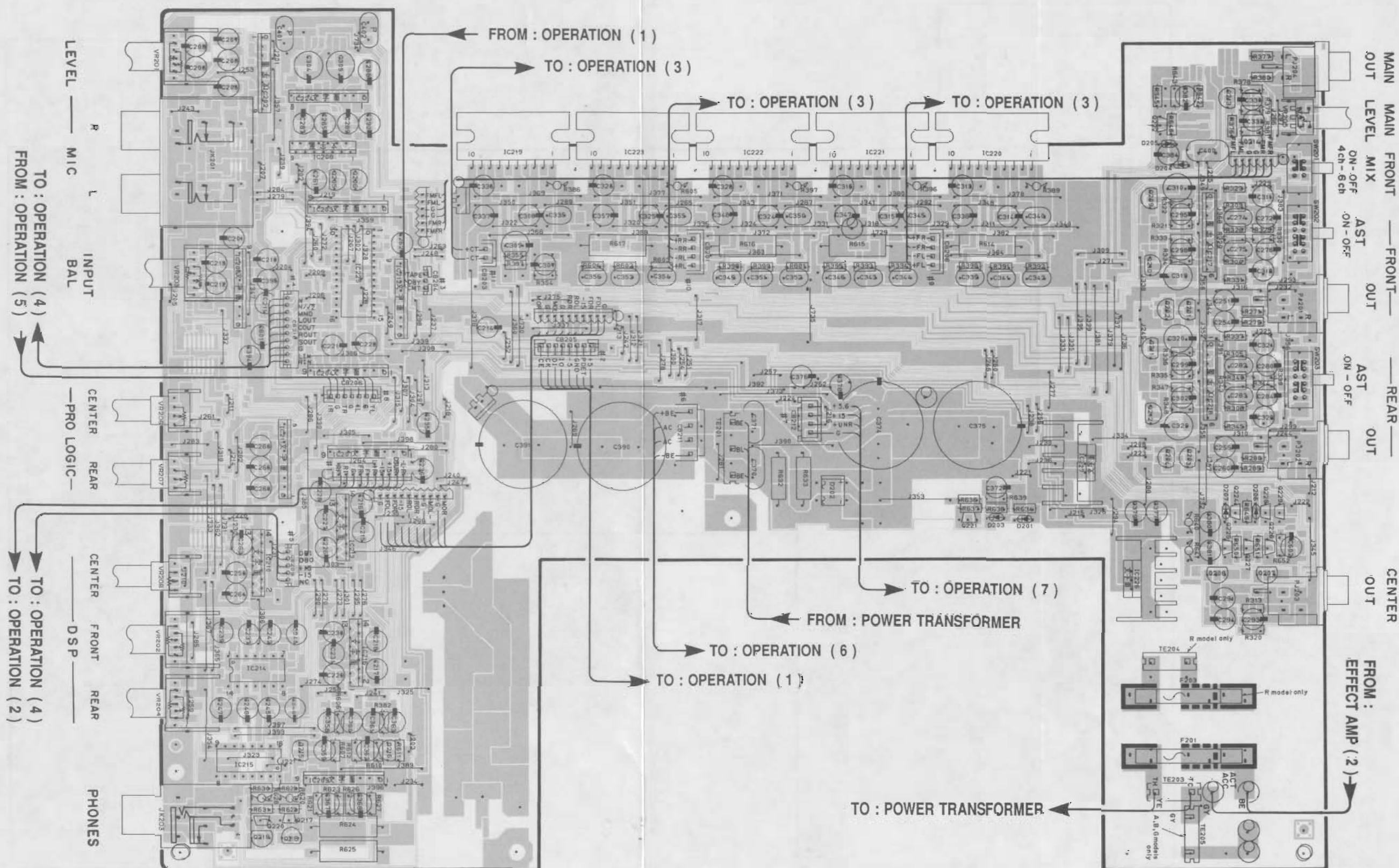
EFFECT AMP C. B C (1)



PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

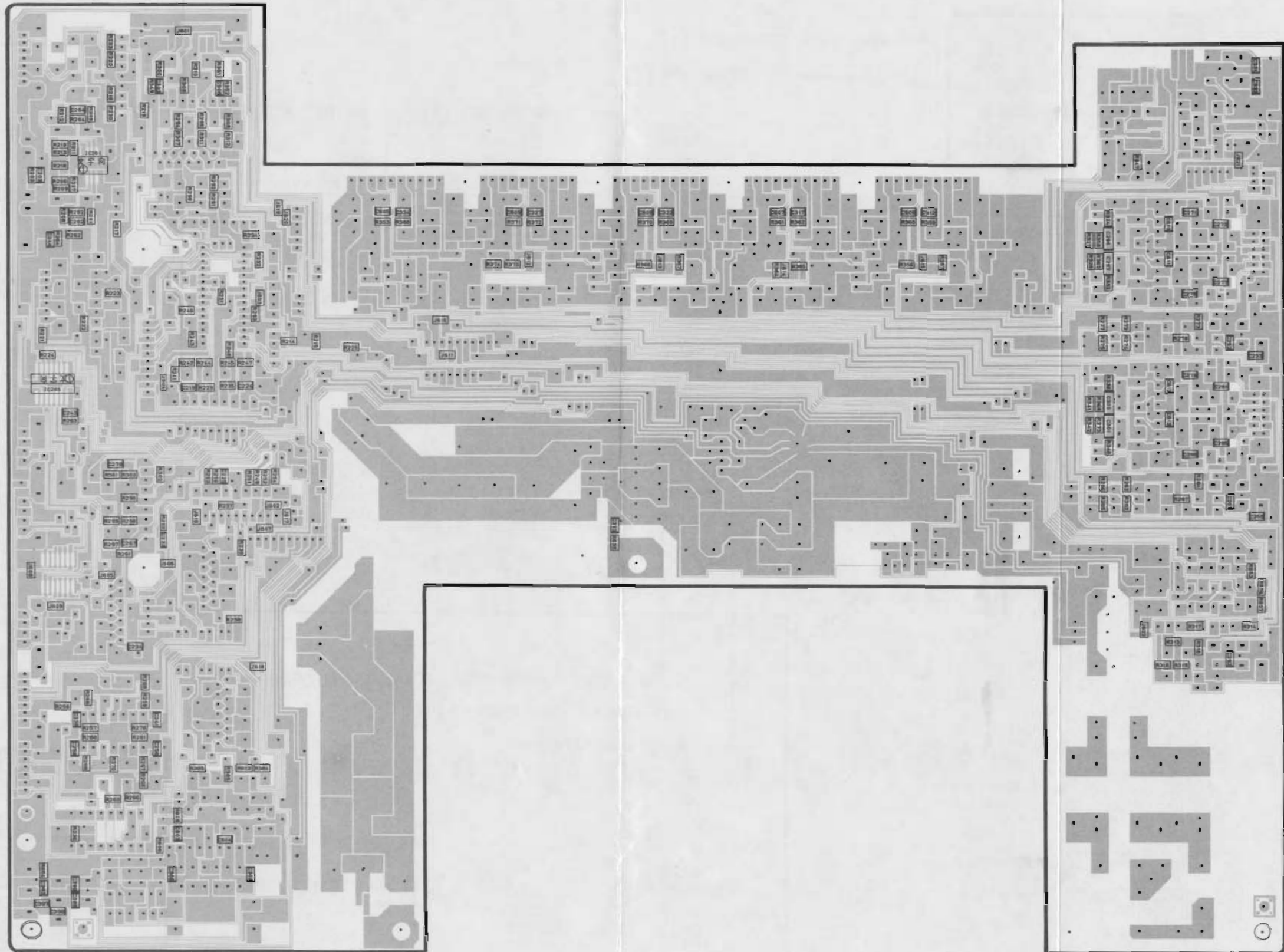
EFFECT AMP C. B D (1)



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

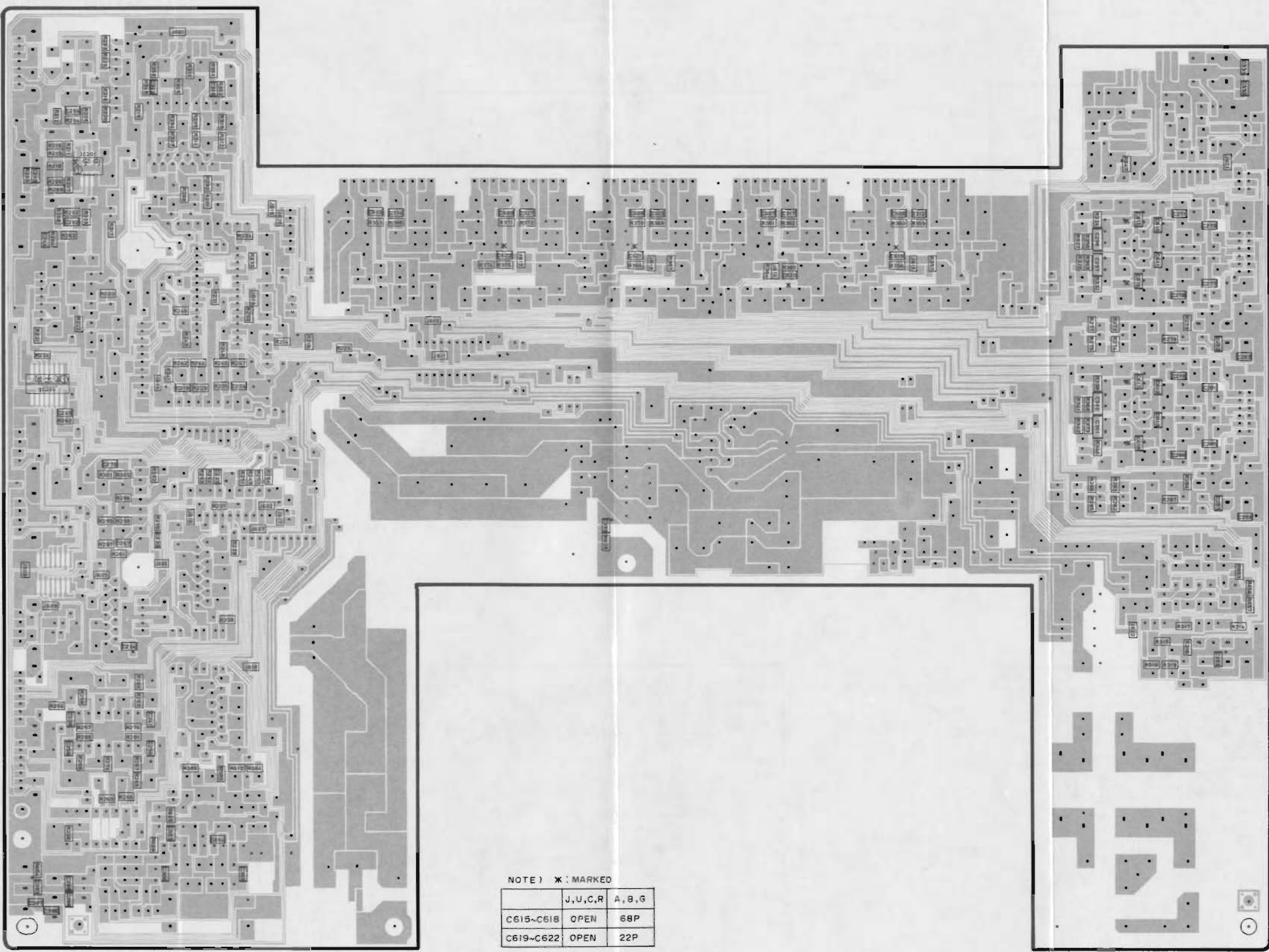
EFFECT AMP C. B D (1)



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

EFFECT AMP C. B E (1)



NOTE) * : MARKED

	J, U, C, R	A, B, G
C615~C618	OPEN	68P
C619~C622	OPEN	22P

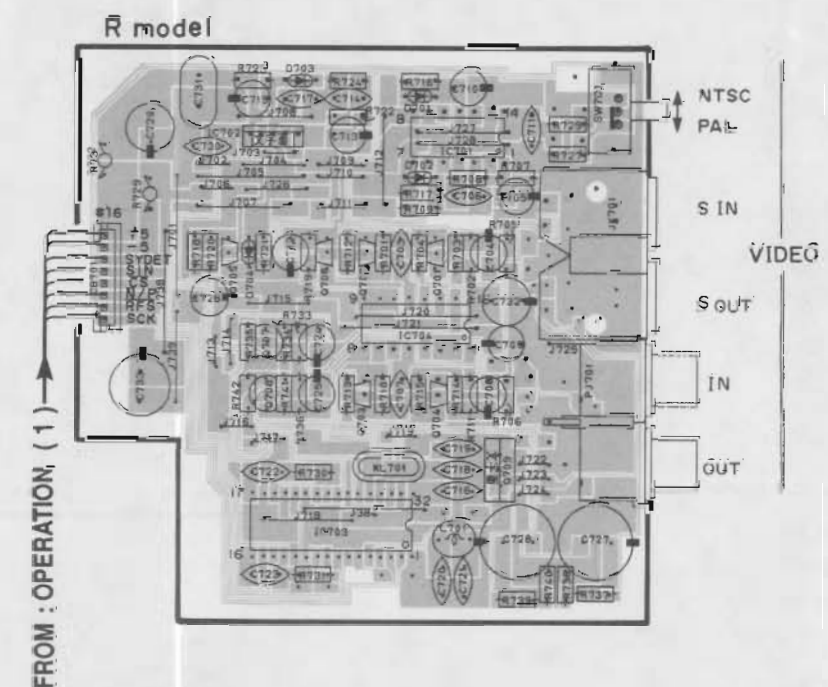
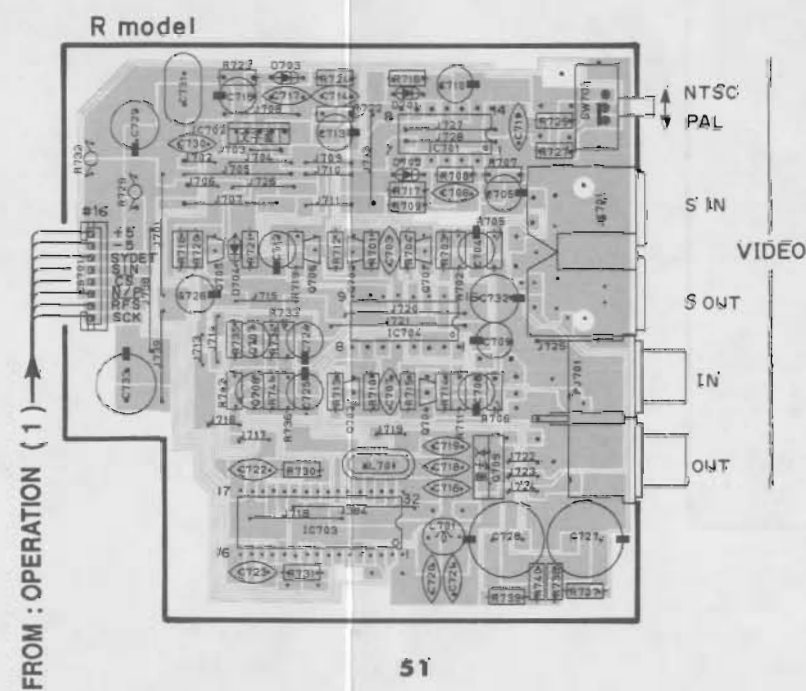
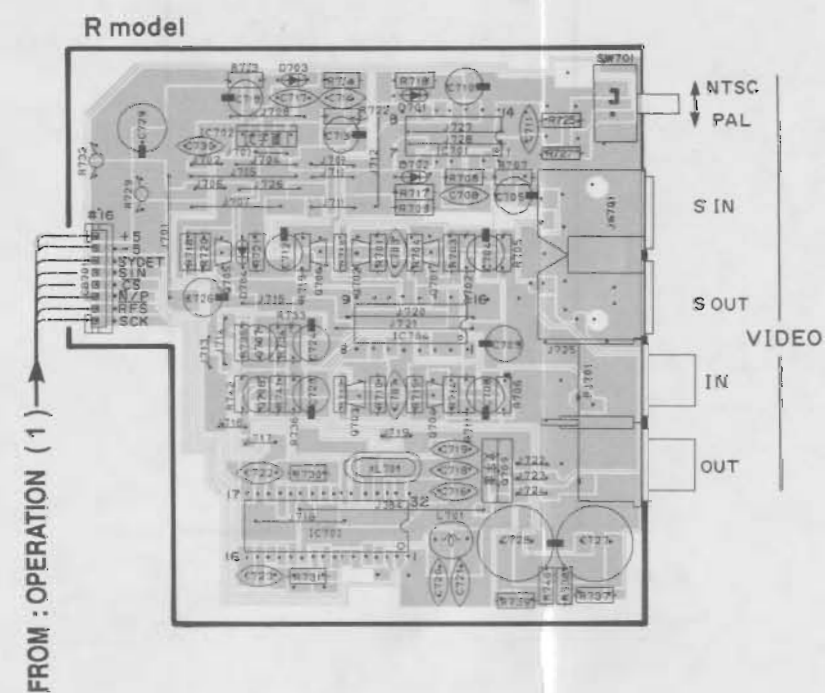
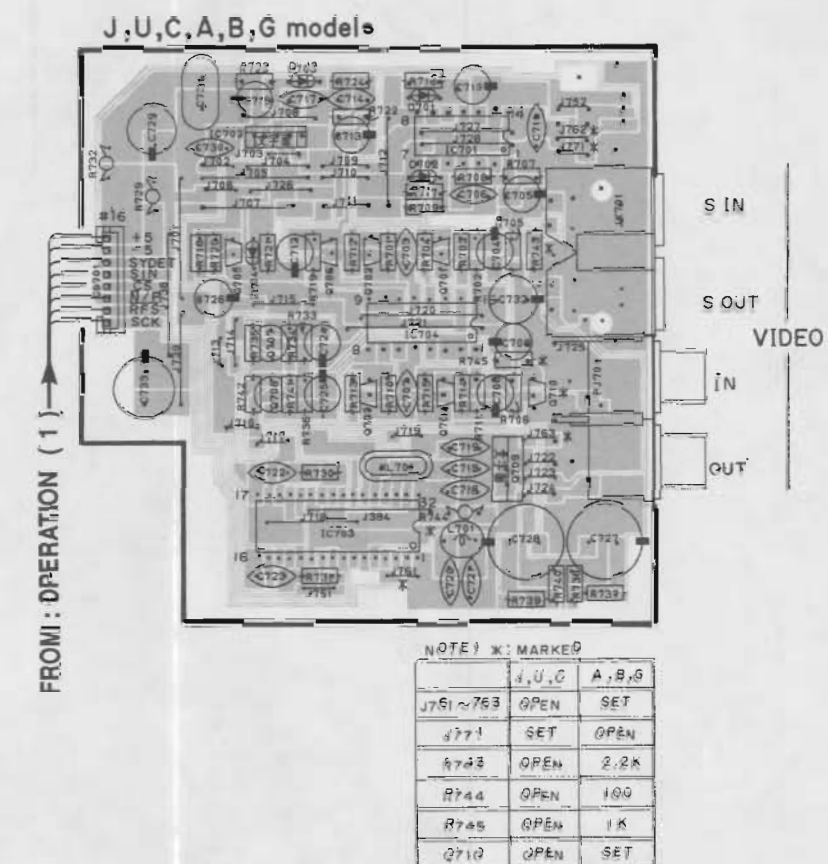
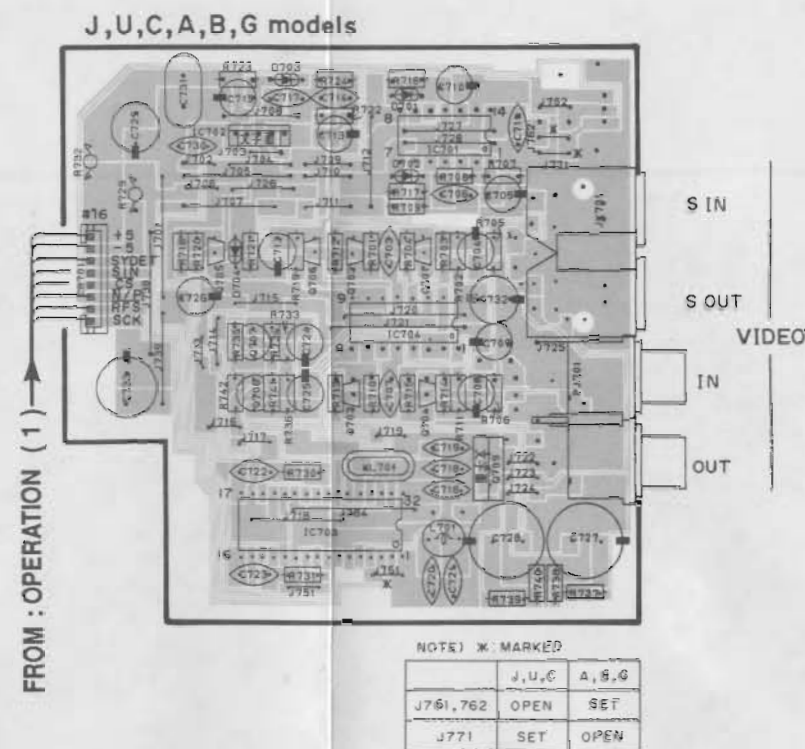
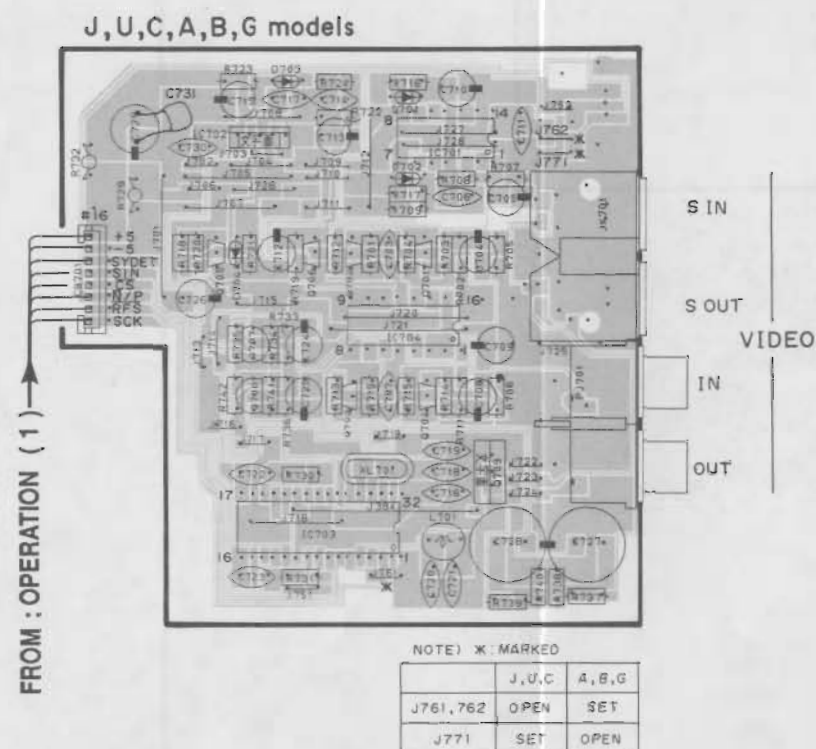
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

EFFECT AMP C. B C (4)

EFFECT AMP C. B D (4)

EFFECT AMP C. B E (4)

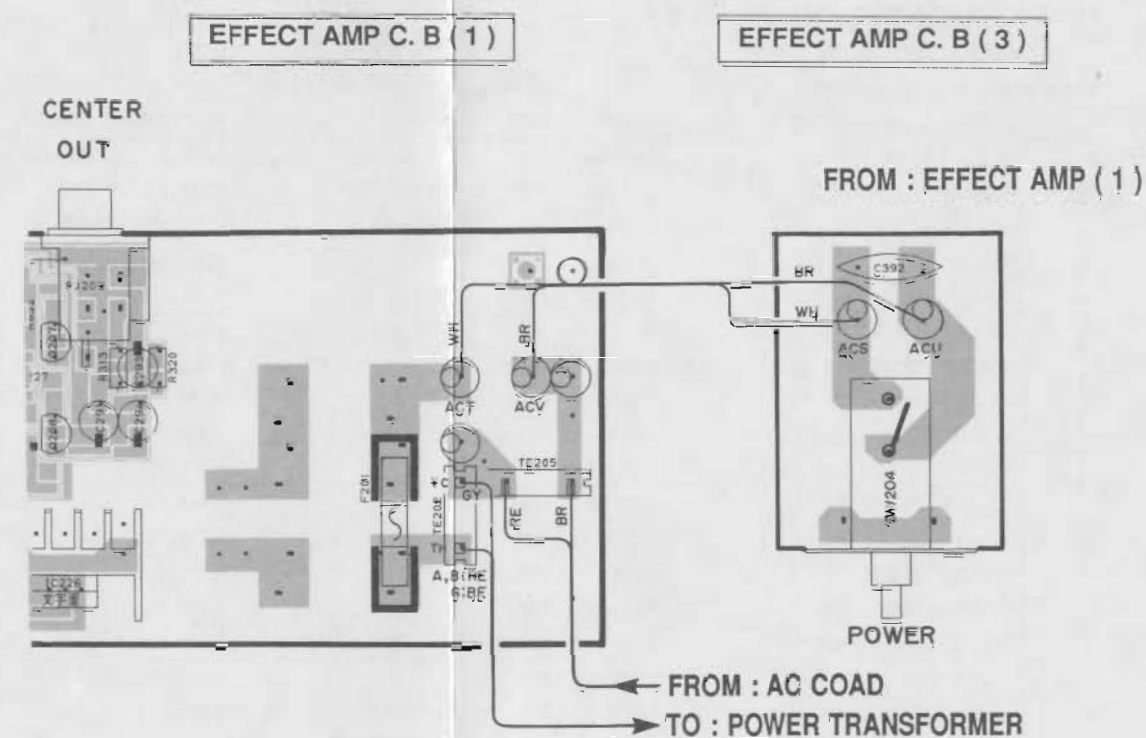
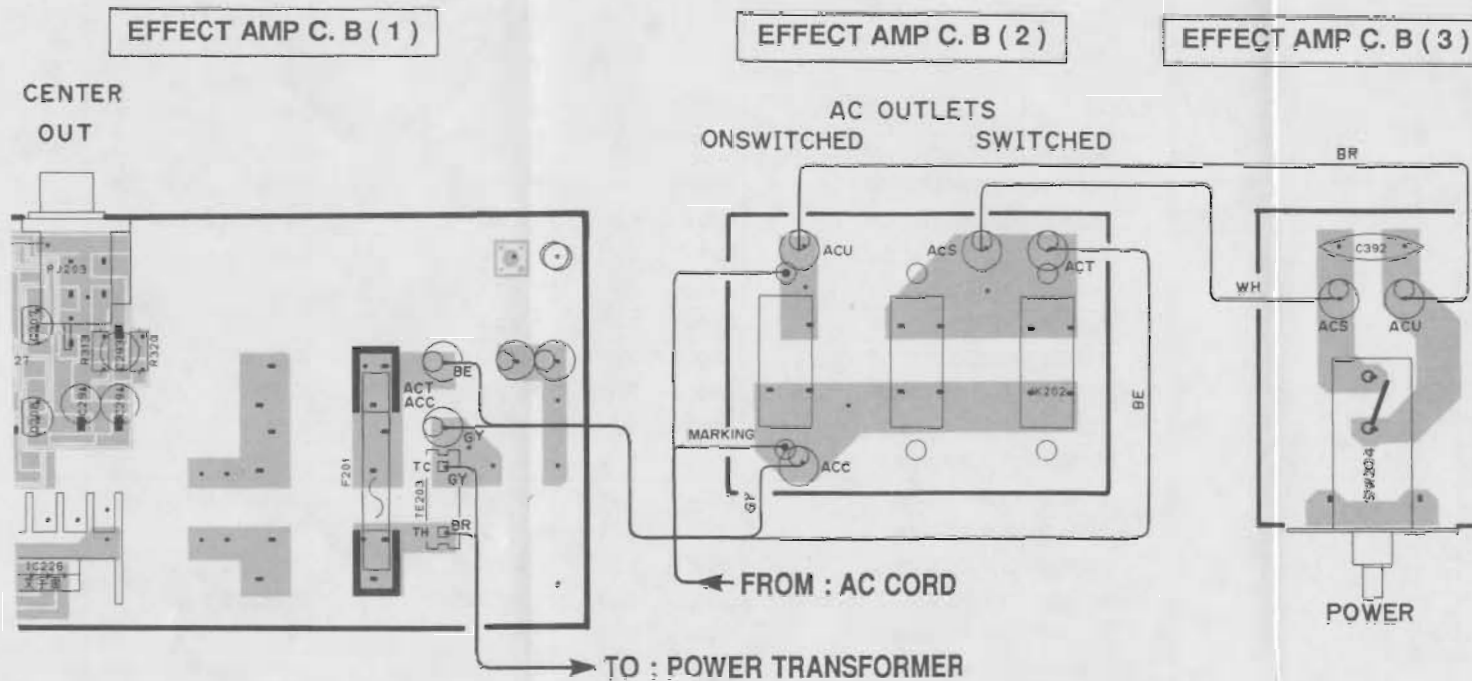


■ PRINTED CIRCUIT BOARD (Foil side)

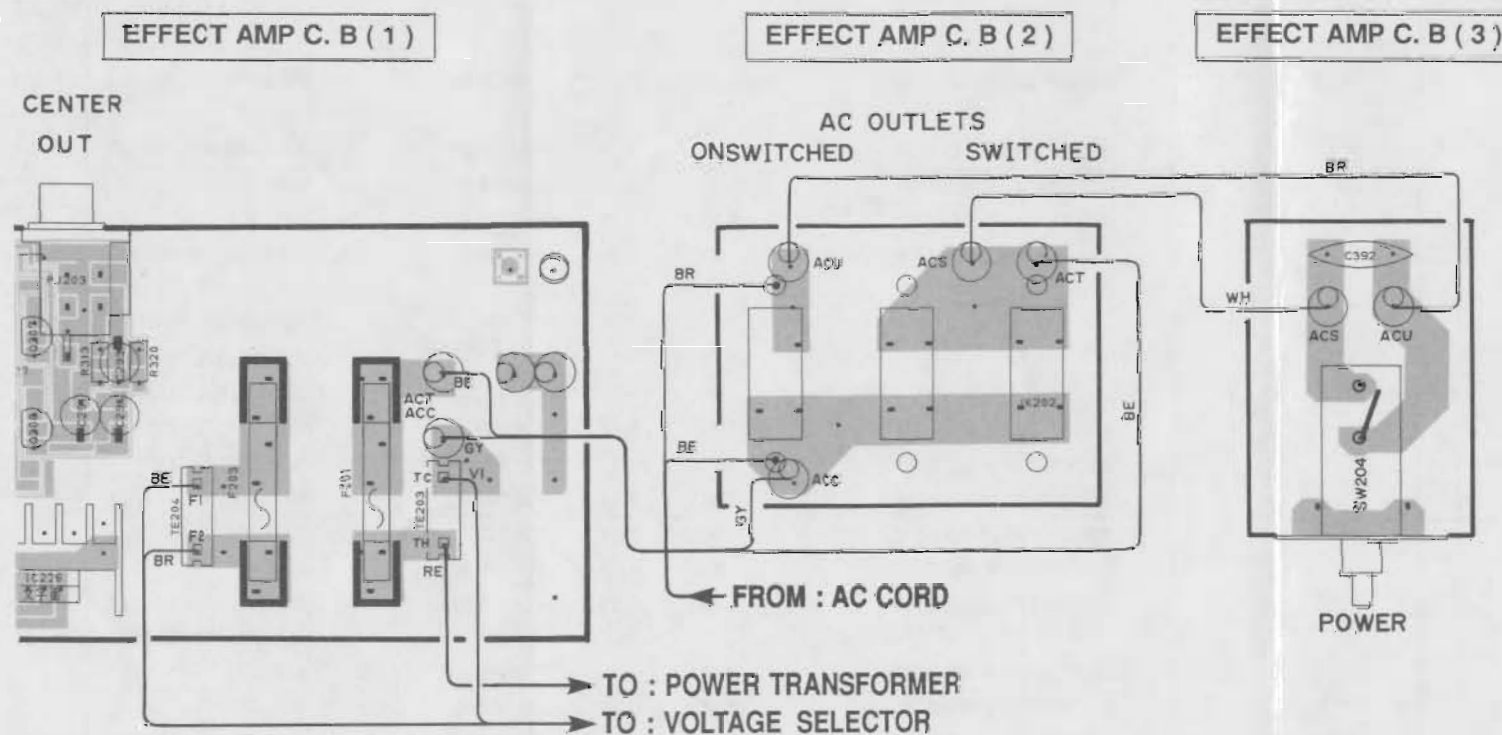
Note) 文字面 : Component side

● U, C models

● A, B, G models



● R model



PARTS LIST

ELECTRICAL PARTS

■ WARNING

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

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the parts No. of the carbon resistors, refer to P. 66.

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
±	V1184300	EFFECT CIRCUIT BOARD	エフェクトシート		U,C	
±	V1184600	EFFECT CIRCUIT BOARD	エフェクトシート		A,B,G	
±	V1608800	EFFECT CIRCUIT BOARD	エフェクトシート		J	
±	V1184500	EFFECT CIRCUIT BOARD	エフェクトシート		R	
	UA254390	MYLAR FILM CAP	0.039 μ F 50V	マイラーコン	C341,343,351,353	
	UA254470	MYLAR FILM CAP	0.047 μ F 50V	マイラーコン	C335,340,345,350,355	
	UA254560	MYLAR FILM CAP	0.056 μ F 50V	マイラーコン	C274,275,282,283	
	UA254680	MYLAR FILM CAP	0.068 μ F 50V	マイラーコン	C339,346,349,356	
	UA555390	MYLAR FILM CAP	0.39 μ F 50V	マイラーコン	C342,344,352,354	
	UT654180	POLYPROPYLEN CAP	0.018 μ F 100V	P Pコン	C370,371	J,U,C,R
	UK565470	ELECTROLYTIC CAP	0.47 μ F 50V	B P ケミコン	C370,371	A,B,G
	FG211220	CERAMIC CAP	22PF 50V	セラコン	C703,707	
	FG211220	CERAMIC CAP	22PF 50V	セラコン	C614	A,B,G
	FG212470	CERAMIC CAP	470PF 50V	セラコン	C730	
	FG213100	CERAMIC CAP	1000PF 50V	セラコン	C722,723	
	FG713120	CERAMIC CAP	1200PF 50V	セラコン	C714	
	VA761000	CERAMIC CAP	22PF 50V	セラコン	C718,719	
	VA761100	CERAMIC CAP	27P 50V	セラコン	C720,721	
	VF611200	CERAMIC CAP	0.1 μ F 50V	積層セラコン	C711,716,717	
	UD111220	CHIP CERAMIC CAP	22PF 50V	チップセラコン	C619-622	A,B,G
±	Vi226400	CHIP CERAMIC CAP	58PF 50V	チップセラコン	C312,317,322,327,334	
±	Vi226400	CHIP CERAMIC CAP	58PF 50V	チップセラコン	C615-618	A,B,G
±	VH531900	CHIP CERAMIC CAP	100PF 50V	チップ積層セラコン	C202,204,219,224,225,256,258,267,303,306,270,603,604,610-613	238,241,366,369,
±	VH531900	CHIP CERAMIC CAP	100PF 50V	チップ積層セラコン	C605-609	J,U,C,R
±	Vi227600	CHIP CERAMIC CAP	220PF 50V	チップセラコン	C605-609	A,B,G
±	Vi227600	CHIP CERAMIC CAP	220PF 50V	チップセラコン	C252,253,257,259,292,	331,332
	VH058000	CHIP CERAMIC CAP	470PF 50V	チップ積層セラコン	C369-397	
	VH058000	CHI CERAMIC CAP	470PF 50V	チップ積層セラコン	C398,399	J,U,C,R
	Vi230900	CHIP CERAMIC CAP	4700PF 50V	積層チップセラコン	C398,399	A,B,G
	Vi230100	CHIP CERAMIC CAP	2200PF 50V	積層チップセラコン	C271,278,279,286	
±	Vi231100	CHIP CERAMIC CAP	5600PF 50V	積層チップセラコン	C273,277,281,285	
±	Vi231300	CHIP CERAMIC CAP	6800PF 50V	積層チップセラコン	C234	
±	Vi231700	CHIP CERAMIC CAP	0.01 μ F 50V	積層チップセラコン	C233	
±	VD499400	CHIP CERAMIC CAP	0.1 μ F 25V	チップ積層セラコン	C203,243,244,373,393	
	UD114820	CHIP CERAMIC CAP	0.082 μ F 50V	チップ積層セラコン	C296,297,300,301	
	Fi414100	CERAMIC CAP	0.01 μ F	スパークキラーコン	C392	Δ
	UH157100	ELECTROLYTIC CAP	10 μ F 35V	ケミコン	C313,316,323,326,347,336-338,348,357	
	VG286200	ELECTROLYTIC CAP	100 μ F 6.3V	ケミコン	C239,240,246,247,268,367,368,384,726	
	Vi844200	ELECTROLYTIC CAP	47 μ F 35V	ケミコン	C308,314,315,324,325,376,377	
	VG286300	ELECTROLYTIC CAP	220 μ F 6.3V	ケミコン	C709	
	VG286500	ELECTROLYTIC CAP	470 μ F 6.3V	ケミコン	C732	
	VG286600	ELECTROLYTIC CAP	1000 μ F 6.3V	ケミコン	C729,733	
	VG287200	ELECTROLYTIC CAP	10 μ F 16V	ケミコン	C287,289,307,311,318,321,328,715,214	
	VG287400	ELECTROLYTIC CAP	33 μ F 16V	ケミコン	C201,205-213,215-218,	221,223,

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VG287400	ELECTROLYTIC CAP	33 μ F 16V	ケミコン	226-231,235-273,242,251,254,255,260-266,284,290,291,294,304,330,333,358-363,394,378-381,395,601,710	245,250,269,288,305,
	VG287500	ELECTROLYTIC CAP	47 μ F 16V	ケミコン	C382,704,708,712,724,	725,602
	VG287700	ELECTROLYTIC CAP	220 μ F 16V	ケミコン	C309,310,319,320,329	
	VG290100	ELECTROLYTIC CAP	0.22 μ F 50V	ケミコン	C272,276,280,284	
	VG290500	ELECTROLYTIC CAP	1 μ F 50V	ケミコン	C372,705,293,295,298,	299,302
	VG290600	ELECTROLYTIC CAP	2.2 μ F 50V	ケミコン	C713	
	UH119220	ELECTROLYTIC CAP	2200 μ F 6.3V	ケミコン	C727,728	
±	Vi349000	ELECTROLYTIC CAP	10000 μ F 35V	ブロックケミコン	C390,391	
±	Vi349100	ELECTROLYTIC CAP	15000 μ F 35V	ブロックケミコン	C374,375	
	VB115600	COIL	EL0606RA 15 μ H	固定コイル	L701	
	RD250000	CHIP RESISTOR	0 Ω 0.1W	チップ抵抗	J601-616,617,618	
	RD253220	CHIP RESISTOR	2.2 Ω 0.1W	チップ抵抗	R203,635,634	
±	RD254220	CHIP RESISTOR	22 Ω 0.1W	チップ抵抗	R209,210	
±	RD255100	CHIP RESISTOR	100 Ω 0.1W	チップ抵抗	R201,205	
	RD255220	CHIP RESISTOR	220 Ω 0.1W	チップ抵抗	R221,224	
	RD255330	CHIP RESISTOR	330 Ω 0.1W	チップ抵抗	R215	
±	RD255470	CHIP RESISTOR	470 Ω 0.1W	チップ抵抗	R237-239,258,259,267,	268,298
	RD256100	CHIP RESISTOR	1K Ω 0.1W	チップ抵抗	R290,293	
±	RD256160	CHIP RESISTOR	1.6K Ω 0.1W	チップ抵抗	R230,233,350,351	
±	RD256200	CHIP RESISTOR	2K Ω 0.1W	チップ抵抗	R216,217,219,220,242,	247
	RD256220	CHIP RESISTOR	2.2K Ω 0.1W	チップ抵抗	R206,213,229,235,241,	248,255,
	RD256270	CHIP RESISTOR	2.7K Ω 0.1W	チップ抵抗	272,277,283,286,315,363,368,373,307,311	318,358,
	RD256470	CHIP RESISTOR	4.7K Ω 0.1W	チップ抵抗	R225,263,264,300,257,288,297	276,281,
	RD256560	CHIP RESISTOR	5.6K Ω 0.1W	チップ抵抗	R218,249-254,261,262,	308,312
	RD256820	CHIP RESISTOR	8.2K Ω 0.1W	チップ抵抗	R208,212	
	RD257100	CHIP RESISTOR	10K Ω 0.1W	チップ抵抗	R301,302	
	RD257100	CHIP RESISTOR	10K Ω 0.1W	チップ抵抗	R214,256,260,265,270,278,282,284,285,287,294-296,309,310,314,	273-275,291,292,316,317,
	RD257110	CHIP RESISTOR	11K Ω 0.1W	チップ抵抗	319,327,328,341,342,383-385,613,243,246,	657,608,609
±	RD257120	CHIP RESISTOR	12K Ω 0.1W	チップ抵抗	R207,211,349,352	
±	RD257220	CHIP RESISTOR	22K Ω 0.1W	チップ抵抗	R324,332,338,346	
	RD257470	CHIP RESISTOR	47K Ω 0.1W	チップ抵抗	R353,360,361,370,371,	653
	RD257820	CHIP RESISTOR	82K Ω 0.1W	チップ抵抗	R202,204	
	RD258100	CHIP RESISTOR	100K Ω 0.1W	チップ抵抗	R647	
	RD258220	CHIP RESISTOR	220K Ω 0.1W	チップ抵抗	R231,232,234,236,244,362,369,372,388,609,	299,359,245,656
	RD258470	CHIP RESISTOR	470K Ω 0.1W	チップ抵抗	R222,223	
±	VH256800	CHIP RESISTOR	1K Ω	チップ抵抗	R266,269	
±	Vi198600	CHIP METAL FILM RESISTOR	33K Ω 1/16W	チップ金被抵抗	R357,364,367,374	
	HV453100	FLAME PROOF RESISTOR	1 Ω 1/4W	不燃化カーボン抵抗	R356,365,366,375	
	HV753470	FLAME PROOF RESISTOR	4.7 Ω 1/4W	不燃化カーボン抵抗	R729	
					R640,641	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	HV455560	FLAME PROOF RESISTOR	560Ω 1/4W	不燃化カーボン抵抗	R620,628	
	HV454100	FLAME PROOF RESISTOR	10Ω 1/4W	不燃化カーボン抵抗	R386,389,396,397,605	
	HV455100	FLAME PROOF RESISTOR	100Ω 1/4W	不燃化カーボン抵抗	R744	A,B,G
	HV453330	FLAME PROOF RESISTOR	3.3Ω 1/4W	不燃化カーボン抵抗	R732	
	VI435900	METAL OXIDE RESISTOR	0.1Ω 1W	酸化金属被膜抵抗	R632,633	
	HL324820	METAL OXIDE RESISTOR	82Ω 2W	酸化金属被膜抵抗	R624,625	
	VI294900	METAL OXIDE RESISTOR	0.15Ω 2W	酸化金属被膜抵抗	R614-617	
	XB247301	IC	UPC4570HA	IC	IC202,204,206,207,211, 212,217, 218,224	
	XE472001	IC	UPC4072HA	IC	IC203	
	XF291A00	IC	UPC4570G2	IC	IC201	
	XF971A00	IC	UPC4574C	IC	IC214	
	XE470001	IC	M51132L	IC	IC208,210,213,216	
	IG077400	IC	NJM4558S	IC	IC209,	
	IG102700	IC	UPC1188H	IC	IC219-223	
	XF612A00	IC	AN79M05F	IC	IC226	
	XB467001	IC	AN79M15F	IC	IC227	
	XG732A00	IC	LC7821N	IC	IC225	
	XG502A00	IC	LA7213	IC	IC702	
	XB736001	IC	UPD4053BG	IC	IC205	
	IG142220	IC	UPD74HCU04C	IC	IC701	
	IG055100	IC	TC4053BP	IC	IC215,704	
	XD132001	IC	M50455-060SP	IC	IC703	
	VI550300	PUSH SWITCH	ESB82104V	プッシュSW	SW204	△
	VH731800	SLIDE SWITCH	SSSF12	スライドSW	SW201	
	VH731900	SLIDE SWITCH	SSSF14	スライドSW	SW202,203	
	VF541200	SLIDE SWITCH	SSSF11	スライドSW	SW701	R
	KB002020	FUSE	4A 125V	ヒューズ	F201	U,C △
	KB000380	FUSE	4A 250V	ヒューズ	F201	J,R △
	KB000680	FUSE	1.25A 250V	ヒューズ	F201	A,G,B △
	KB000350	FUSE	2A 250V	ヒューズ	F203	R △
	LA002140	LAPPING TERMINAL	2P I-102NA	ラッピング端子	TE203	
	LA002140	LAPPING TERMINAL	2P I-102NA	ラッピング端子	TE204	R
	LA002320	LAPPING TERMINAL	3P I-753NA	ラッピング端子	TE201	
	LA003870	LAPPING TERMINAL	2P L-102NE	ラッピング端子	TE205	A,G,B
	VI217200	PIN JACK	TE180-AAAF	ピンジャック 2P	PJ701	
	VH733900	PIN JACK	TE6419-AABB	ピンジャック 2P	PJ204	
	VI205900	PIN JACK		ピンジャック 2P	PJ203	
	VJ133600	PIN JACK		ピンジャック	PJ201,202	
	VI185800	PHONES JACK	HLJ2317	ホーンジャック	JK203	
	VI185900	MICROPHONE JACK	HLJ0347	2連マイクジャック	JK201	
	LB608170	AC OUTLET	M7032D	ACソケット	JK202	J,U,C,R △
	VI234500	CONNECTOR	4P M1821-B	2連DNコネクター	JK701	
	LB918040	BASE PIN	XH 4P TE	ベースツキポスト	CB201,208,212	
	LB918020	BASE PIN	XH 2P TE	ベースツキポスト	CB203	
	LB932040	BASE PIN	VH 4P TE	ベースポスト	CB211	
	VD004600	BASE PIN	PH 3P TE	ベースピン	CB204	
	VD005000	BASE PIN	PH 7P TE	ベースピン	CB206	
	VD005100	BASE PIN	PH 8P TE	ベースピン	CB205,701	
	VI377500	BASE PIN	MQ 5P TE	MQ ベースピン	CB209	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
+	Vi378000	BASE PIN	MQ 10P TE	MQ ベースピン	CB210	
	VD980900	QUARTZ CRYSTAL	14.3181M AD0978CFA	水晶振動子	XL701	J,U,C,R
	VF066800	QUARTZ CRYSTAL	17.7344M AT-49	水晶振動子	XL701	A,G,B
+	VH732000	POTENTIOMETER	A10KΩ RK11K112	ロータリーVR	VR206-208	
+	Vi233800	POTENTIOMETER	A10KΩ RK14K12B	二連ロータリーVR	VR202,204	
+	VH746600	POTENTIOMETER	B10KΩ RK09K12A	二連ロータリーVR	VR205	
+	Vi233700	POTENTIOMETER	50KΩ RK14K122	二連ロータリーVR	VR203	
+	Vi809100	POTENTIOMETER	A10KΩ RK14K12B	二連ロータリーVR	VR201	
	iA093370	TRANSISTOR	2SA933S Q,R	トランジスタ	Q217,220,221,226,227,	702,703
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q222,224,229,701,	704-706
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q710	A,B,G
	iC1815C0	TRANSISTOR	2SC1815 Y	トランジスタ	Q707,708	
	VC502100	TRANSISTOR	2SD1915 S,T	トランジスタ	Q201-216,218,219	
	VE170300	FET	2SK442	FET	Q709	
	VD678500	DIGITAL TRANSISTOR	DTA114ES	デジタルトランジスタ	Q225	
	VD678700	DIGITAL TRANSISTOR	DTC114ES	デジタルトランジスタ	Q228	
	IF004000	DIODE	1SS133	ダイオード	D201,204,205,207,	701-704
	VE367900	DIODE BRIDGE	DF02M 1A 200V	Diブリッジ	D202	
	VG437700	ZENER DIODE	MTZJ5.6B 5.6V	ツェナーダイオード	D206	
+	VG439500	ZENER DIODE	MTZJ10B 10V	ツェナーダイオード	D203	
	LB201880	FUSE HOLDER PIN	PC-FH1	ヒューズホルダピン		
+	VB698800	CONNECTOR ASSY	300MM 6P	PHコネクタASSY		
+	VB705000	CONNECTOR ASSY	120MM 10P	PHコネクタASSY		
	VB721100	CONNECTOR ASSY	400MM 10P	PHコネクタASSY		
	BA092970	RADIATOR		放熱器		
+	Vi233500	SHEILD COVER		シルドカバー		
	RD256150	CHIP RESISTOR	1.5KΩ 0.1W	チップ抵抗	R242,247	
	RD256160	CHIP RESISTOR	1.6KΩ 0.1W	チップ抵抗	R300	
	RD256180	CHIP RESISTOR	1.8KΩ 0.1W	チップ抵抗	R257,276,281,288,297	
	RD256300	CHIP RESISTOR	3KΩ 0.1W	チップ抵抗	R307,308,311,312	
	Vi184700	OPERATION CIRCUIT BOARD		オペレーションシート		U,C
	VJ191200	OPERATION CIRCUIT BOARD		オペレーションシート		J
	VJ070300	OPERATION CIRCUIT BOARD		オペレーションシート		R,A,B,G
	UA254220	MYLAR FILM CAP	0.022μF 50V	マイラーコン	C61-63,66,67	
	UA254270	MYLAR FILM CAP	0.027μF 50V	マイラーコン	C17	
	UA254100	MYLAR FILM CAP	0.01μF 50V	マイラーコン	C60,64,65,68,69	
	FG144330	CERAMIC CAP	0.033μF 50V	セラコン	C14	
	FZ005880	CERAMIC CAP	0.1μF 25V	積層セラコン	C6	
+	VH531900	CHIP CERAMIC CAP	100PF 50V	チップ積層セラコン	C4,102,103,106,107,117,124	
+	Vi227000	CHIP CERAMIC CAP	120PF 50V	チップセラコン	C87-91,93-96,98,157,160-163	143-151,
+	Vi227600	CHIP CERAMIC CAP	220PF 50V	チップセラコン	C59,125-128	
+	VH058000	CHIP CERAMIC CAP	470PF 50V	チップ積層セラコン	C72,73	
	UT454100	POLYPROPYLEN FILM CAP	0.01μF 100V	PPコン	C172	

※New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
※	UT452470	POLYPROPYLEN FILM CAP	470pF 100V	PPコン	C70,71	03
※	Vi228800	CHIP CERAMIC CAP	680PF 50V	チップセラコン	C29,30	
※	Vi229300	CHIP CERAMIC CAP	1000PF 50V	積層チップセラコン	C118,123	
※	Vi230900	CHIP CERAMIC CAP	4700PF 50V	積層チップセラコン	C16	
※	Vi231100	CHIP CERAMIC CAP	5800PF 50V	積層チップセラコン	C23	
※	Vi231300	CHIP CERAMIC CAP	6800PF 50V	積層チップセラコン	C39,40	
※	Vi231700	CHIP CERAMIC CAP	0.01 μ F 50V	積層チップセラコン	C57,58,167	
※	Vi229900	CHIP CERAMIC CAP	1800PF 50V	積層チップセラコン	C101,104	
※	Vi230300	CHIP CERAMIC CAP	2700PF 50V	積層チップセラコン	C97,99	
※	Vi230500	CHIP CERAMIC CAP	3300PF 50V	積層チップセラコン	C105,108	
※	VD499400	CHIP CERAMIC CAP	0.1 μ F 25V	チップ積層セラコン	C3,5,8,25-28,76-78,120,121,131-136,139-142,158,152-156	
	VG286800	ELECTROLYTIC CAP	100 μ F 10V	ケミコン	C137,138,159	
	VG287200	ELECTROLYTIC CAP	10 μ F 16V	ケミコン	C54,92,130,168,170,171	
	VG287300	ELECTROLYTIC CAP	22 μ F 16V	ケミコン	C18	
	VG287400	ELECTROLYTIC CAP	33 μ F 16V	ケミコン	C20,21,24,41,51,100,109	109-112,
	VG287500	ELECTROLYTIC CAP	47 μ F 16V	ケミコン	C42,49,119,122,129	
	VG287600	ELECTROLYTIC CAP	100 μ F 16V	ケミコン	C19,55	
	VG290500	ELECTROLYTIC CAP	1 μ F 50V	ケミコン	C11,12,15,22,56,	113-116
	VG290800	ELECTROLYTIC CAP	4.7 μ F 50V	ケミコン	C35-38,45,46,52,53	
	VG286600	ELECTROLYTIC CAP	1000 μ F 6.3V	ケミコン	C9	
	VG290100	ELECTROLYTIC CAP	0.22 μ F 50V	ケミコン	C43,44,47,48	
	VG290200	ELECTROLYTIC CAP	0.33 μ F 50V	ケミコン	C10,31,33	
	VG290300	ELECTROLYTIC CAP	0.47 μ F 50V	ケミコン	C50	
	VE832800	ELECTROLYTIC CAP	0.047F 5.5V	スーパーキャパシタ	C1	
	UH157470	ELECTROLYTIC CAP	47 μ F 35V	ケミコン	C185	
	UJ157330	ELECTROLYTIC CAP	33 μ F 35V	ケミコン	C164	
	UW565150	ELECTROLYTIC CAP	0.15 μ F 50V	ケミコン	C32,34	
	UH166100	ELECTROLYTIC CAP	1 μ F 50V	ケミコン	C2	
	GD900680	COIL	SM-5752 10x5	空芯コイル	L2-6	
	VC362000	COIL	EL0808 1mH	コイル	L1	
※	RD250000	CHIP RESISTOR	0 Ω 0.1W	チップ抵抗	J1-25	
※	RD253220	CHIP RESISTOR	2.2 Ω 0.1W	チップ抵抗	R102-104,168	
※	RD254100	CHIP RESISTOR	10 Ω 0.1W	チップ抵抗	R175,176	
※	RD254330	CHIP RESISTOR	33 Ω 0.1W	チップ抵抗	R27,29,31,33,35,38,41,	44
※	RD254470	CHIP RESISTOR	47 Ω 0.1W	チップ抵抗	R26,28,30,32,34,37,40,	43
※	RD254820	CHIP RESISTOR	82 Ω 0.1W	チップ抵抗	R36,39,42,45	
※	RD255100	CHIP RESISTOR	100 Ω 0.1W	チップ抵抗	R154,155,161,162	
※	RD255180	CHIP RESISTOR	180 Ω 0.1W	チップ抵抗	R155	
※	RD255220	CHIP RESISTOR	220 Ω 0.1W	チップ抵抗	R76	
※	RD255470	CHIP RESISTOR	470 Ω 0.1W	チップ抵抗	R1-3,12-15,17-21,167	
※	RD255560	CHIP RESISTOR	560 Ω 0.1W	チップ抵抗	R7	
※	RD256100	CHIP RESISTOR	1K Ω 0.1W	チップ抵抗	R9,73,156	
※	RD256220	CHIP RESISTOR	2.2K Ω 0.1W	チップ抵抗	R117,119,121,123,125,	128
※	RD256330	CHIP RESISTOR	3.3K Ω 0.1W	チップ抵抗	R54	
※	RD256390	CHIP RESISTOR	3.9K Ω 0.1W	チップ抵抗	R8,158	
※	RD256560	CHIP RESISTOR	5.6K Ω 0.1W	チップ抵抗	R58	
※	RD256620	CHIP RESISTOR	6.2K Ω 0.1W	チップ抵抗	R81	
※	RD256680	CHIP RESISTOR	6.8K Ω 0.1W	チップ抵抗	R143-146,149-152	

※New Parts (新規部品)

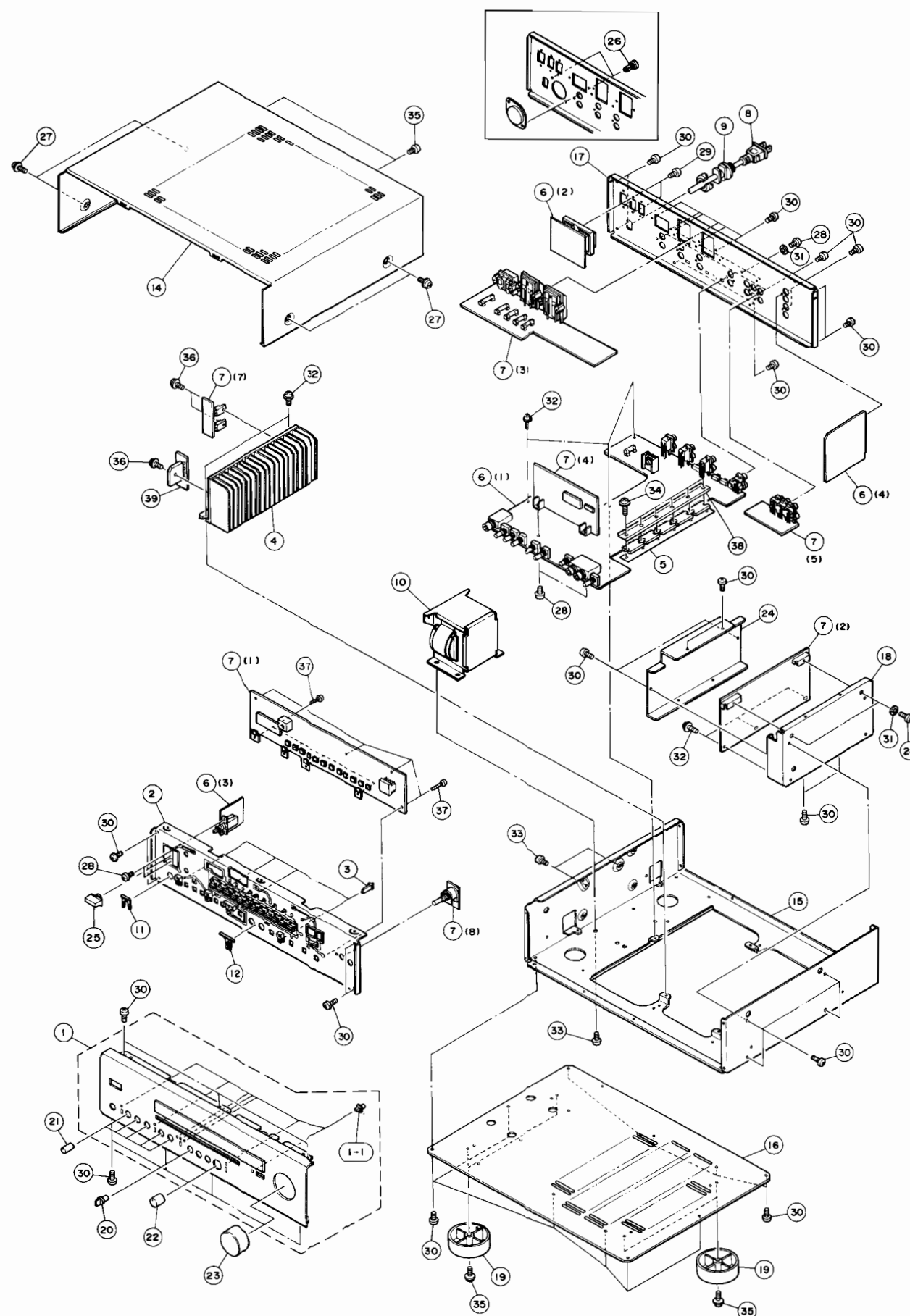
ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
*	RD256750	CHIP RESISTOR	7.5K Ω 0.1W	チップ抵抗	R64,65	
	RD256820	CHIP RESISTOR	8.2K Ω 0.1W	チップ抵抗	R140,142,147,148	
*	RD256910	CHIP RESISTOR	9.1K Ω 0.1W	チップ抵抗	R163-166	
	RD257100	CHIP RESISTOR	10K Ω 0.1W	チップ抵抗	R5,59,114,116,118,120, 133,169,171,172,174,	122,132, 178
*	RD257150	CHIP RESISTOR	15K Ω 0.1W	チップ抵抗	R60,61,80	
	RD257160	CHIP RESISTOR	16K Ω 0.1W	チップ抵抗	R124,129,131,134,135, 141	138,139,
	RD257220	CHIP RESISTOR	22K Ω 0.1W	チップ抵抗	R75,77	
	RD257270	CHIP RESISTOR	27K Ω 0.1W	チップ抵抗	R56,153,160	
	RD257470	CHIP RESISTOR	47K Ω 0.1W	チップ抵抗	R4,52,62,63,78	
	RD258100	CHIP RESISTOR	100K Ω 0.1W	チップ抵抗	R6,10,11,22-25,57,79, 115,127,130	112,113,
*	RD258270	CHIP RESISTOR	270K Ω 0.1W	チップ抵抗	R51	
	RD258560	CHIP RESISTOR	560K Ω 0.1W	チップ抵抗	R170,173	
	RD259100	CHIP RESISTOR	1M Ω 0.1W	チップ抵抗	R16,74,177	
	HV753100	FLAME PROOF RESISTOR	1 Ω 1/4W	不燃化カーボン抵抗	R201	
	HV454100	FLAME PROOF RESISTOR	10 Ω 1/4W	不燃化カーボン抵抗	R82,84-87	
	HL314680	METAL OXIDE RESISTOR	68 Ω 1W	酸化金属被膜抵抗	R157,159	
	XB247301	IC	UPC4570HA	IC	IC9-13	
	XB248001	IC	M5238L	IC	IC14,16	
	XD386001	IC	LA2730	IC	IC5	
	XA507001	IC	AN78N05	IC	IC32	
	XF982A00	IC	AN78L12	IC	IC7	
*	XG780A00	IC	AN79N05	IC	IC33	
	XB449A00	IC	AN7815F	IC	IC35	
	XB646001	IC	AN78M05F	IC	IC34	
	XG497A00	IC	LA2770	IC	IC6	
	IG105900	IC	UPD4053BC	IC	IC30,31	
*	XE520A00	IC	UPD74HC00G-T1	IC	IC25	
*	XG535A00	IC	UPD74HC004G	IC	IC20	
*	XE821A00	IC	UPD74HC74G	IC	IC21,22	
*	XG536A00	IC	UPD74HC175G	IC	IC24	
*	XG534A00	IC	UPD74HC393G	IC	IC23	
*	IG001720	IC	TC4069UBP	IC	IC8	
*	XG700A00	IC	HD63B01YORL37P	IC	IC27	
*	XG701A00	IC	M50747-B87	IC	IC2	J,R,A,B,G
*	XG701B00	IC	M50747-C36	IC	IC2	U,C
	XC628A00	IC	TC51832PL-10	IC	IC29	
*	IG081900	IC	HA17408P	IC	IC1	
*	XG499A00	IC	AK9201	IC	IC17	
	XD898001	IC	PCM56P-L	IC	IC18,19	
	XE449A00	IC	YN3413	IC	IC28	
	XE862001	IC	YN3422	IC	IC26	
*	VF926500	RECEIVE UNIT	GP1U501X	リモコン受光ユニット	U1	
	VE327300	PUSH SWITCH		プッシュSW	SW1-17	
*	Vi032300	ROTARY ENCODER	EC16B40B	ロータリーエンコーダ	SW18	
*	KB003160	FUSE	3A 250V	ヒューズ	F1-5	J,U,C
	KB000760	FUSE	3.15A 250V	ヒューズ	F1-5	R,A,B,G

*New Parts (新規部品)

ランク : Japan only

EXPLODED VIEW



MECHANICAL PARTS

Note) φ : Diameter

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
01	Vi183700	FRONT PANEL UNIT	フロントパネルユニット	BL	J	
01	Vi183800	FRONT PANEL UNIT	フロントパネルユニット	BL	UCRABG	
01	Vi183900	FRONT PANEL UNIT	フロントパネルユニット	T	J	
01	Vi184000	FRONT PANEL UNIT	フロントパネルユニット	T	UCRABG	
01-1	VH897700	LENS	レンズ			
02	NX605530	SUB CHASSIS	サブシャーシ	BL		
02	NX605340	SUB CHASSIS	サブシャーシ	T		
03	VH920100	BUTTON	ボタン	BL		
03	VH920200	BUTTON	ボタン	T		
04	VH955700	RADIATOR	ラジエータ			
05	Vi202100	SHEET	シート			
06	Vi608800	EFFECT CIRCUIT BOARD	エフェクトシート		J	
06	Vi184300	EFFECT CIRCUIT BOARD	エフェクトシート		U,C	
06	Vi184600	EFFECT CIRCUIT BOARD	エフェクトシート		A,B,G	
06	Vi184500	EFFECT CIRCUIT BOARD	エフェクトシート		R	
07	Vi184700	OPERATION CIRCUIT BOARD	オペレーションシート		U,C	
07	VJ191200	OPERATION CIRCUIT BOARD	オペレーションシート		J	
07	VJ070300	OPERATION CIRCUIT BOARD	オペレーションシート		R,A,B,G	
08	VC614400	POWER CORD	電源コード	12A 2M	J	△
08	MG002220	POWER CORD	電源コード	10A SPT-2	U,C	△
08	VE371000	POWER CORD	電源コード	6A 2M	R	△
08	MG002310	POWER CORD	電源コード	7.5A 250V	A	△
08	MG002330	POWER CORD	電源コード	6A 250V	B	△
08	MG002320	POWER CORD	電源コード	2.5A 250V	G	△
09	CB620200	CORD STOPPER	コードストッパー	CM-22C	U,C	△
09	CB620190	CORD STOPPER	コードストッパー	CM-22B	R,A,B,G	△
10	XG786A00	POWER TRANSFORMER	電源トランス		J	△
10	XG787B00	POWER TRANSFORMER	電源トランス		U	△
10	XH154B00	POWER TRANSFORMER	電源トランス		C	△
10	XG788A00	POWER TRANSFORMER ASS'Y	電源トランス ASS'Y		R	△
10	LB201480	VOLTAGE SELECTOR	電圧切替器		R	△
10	XG789A00	POWER TRANSFORMER	電源トランス		A,B	△
10	XG790B00	POWER TRANSFORMER	電源トランス		G	△
11	LB301910	METAL FITTINGS,U-TYPE	U字金具	HLJ0999-01-480		
12	LB302220	ANGLE,BRACKET	T字金具	HLJ0999-01-490		
14	VH953600	TOP COVER	トップカバー	BL		
14	VH953700	TOP COVER	トップカバー	T		
15	VH953800	CHASSIS	シャーシ			
16	VH953900	BOTTOM COVER	ボトムカバー			
17	VH958400	REAR PANEL	リヤパネル		J	
17	VH958500	REAR PANEL	リヤパネル		U,C	
17	VH958700	REAR PANEL	リヤパネル		R	
17	VH958800	REAR PANEL	リヤパネル		A,B	
17	VH958900	REAR PANEL	リヤパネル		G	
18	VH956400	SHEILD BOX	シールドボックス			
19	Vi615200	LEG	レッグ		J	
19	CB660950	LEG	レッグ	BL	UCRABG	
19	Vi175700	LEG	レッグ	T	UCRABG	
20	VH888800	KNOB	ノブ	BL		
20	VH888900	KNOB	ノブ	T		

※New Parts (新規部品)

ランク : Japan only

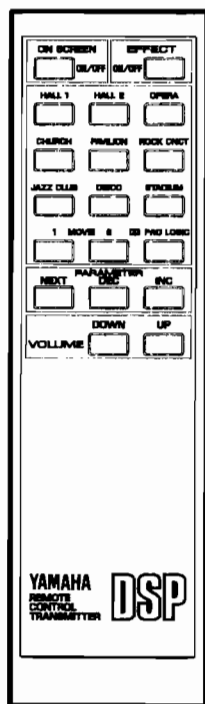
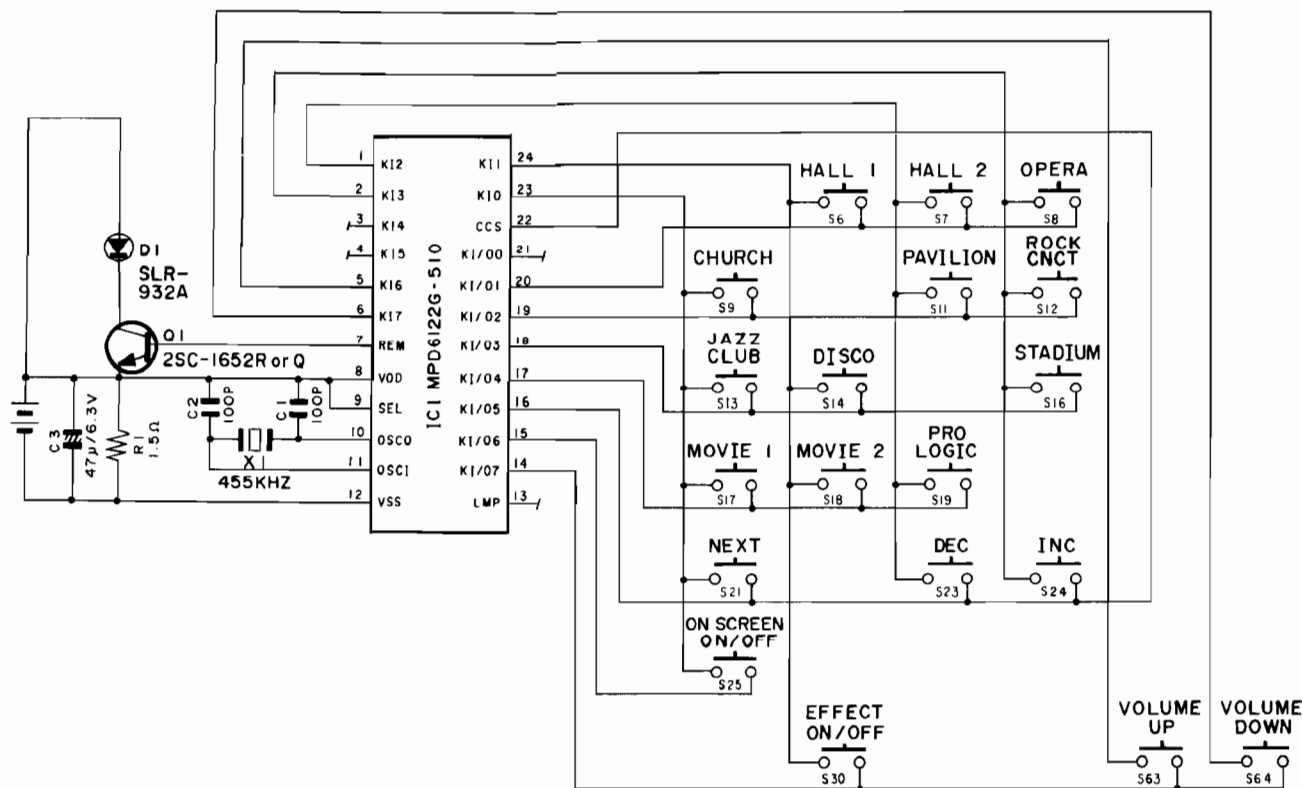
Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* 21	VH889000	KNOB	D9	ノブ	BL	
* 21	VH889100	KNOB	D9	ノブ	T	
* 22	VH889200	KNOB	D14	ノブ	BL	
* 22	VH889300	KNOB	D14	ノブ	T	
* 23	VH953300	KNOB	D40	ノブ	BL	
* 23	VH953400	KNOB	D40	ノブ	T	
* 24	VI435300	SHEILD PLATE		シールドプレート		
* 25	VH841900	BUTTON	10/25	ボタン	BL	
* 25	VH842000	BUTTON	10/25	ボタン	T	
26	CB068880	PLASTIC RIVET	#1027	プラスチックリベット		R
27	EK365040	BW HEAD SCREW	4x8-10	FCM3-BL	BWヘッド小ネジ	BL
27	EX601150	BW HEAD S-TYTE SCREW	4X8-10	FCM3-BL	BWヘッドSタイトネジ	T
28	ED330066	BINDING HEAD SCREW	3x6	FCM3-BL	バインド小ネジ	
29	EX600310	BINDING HEAD SCREW	3x8	FCRM3-BL	バインドPタイト	J,U,C,R
30	EN301010	BIND HEAD BONDING SCREW	3x8	FCM3-BL	ボンディングBタイト	
31	EV413036	TOOTHED LOCK WASHER	φ3	FCM3-BL	歯付座金	
32	EX600240	BW HEAD TAPPING SCREW	3x8	FCM3-BL	BWヘッドタッピングネジ	
33	EI340086	BINDING HEAD SCREW	4x8	FCM3-BL	バインドタッピングネジ	
34	EX601090	BW HEAD TAPPING SCREW	3x12	FCM3-BL	BWヘッドタッピングネジ	
35	EI330086	BINDING HEAD SCREW	3x8	FCRM3-BL	バインドタッピングネジ	
36	EX600920	CUP SCREW B-TYTE	3x12	FCM3-BL	カップBタイトネジ	
37	EJ326086	PAN HEAD TAPPING SCREW	2.6x8	ZMC3-BL	ナベタッピングネジ	BL
	CB069251	BINDING TIE	BK-1		束線止め	PACK
38	VI924900	FRAME IC			フレームIC	
* 39	VJ341200	FUSE CIRCUIT BOARD			ヒューズシート	J,R
* 39	VJ341300	FUSE CIRCUIT BOARD			ヒューズシート	A,B,G
* 39	VJ355200	FUSE CIRCUIT BOARD			ヒューズシート	U,C
		ACCESSORIES			付属品	
* *	VI054000	REMOTE CONTROL TRANSMITTER			トランスミッター	
* *	CX611300	LID			電池ケース	
		DRY CELL	UM-4,R03,AAA		マンガン電池	
* *	VI182200	ACCESSORIES ASS'Y			付属品ASSY	J
	VJ069800	ACCESSORIES ASS'Y			付属品ASSY	UCRABG
* *	VJ068900	PIN CORD			PPコード OFC	J
* *	VJ068800	PIN CORD			PPコードキイ OFC	J
* *	VJ069000	S CONNECTION CABLE			S接続ケーブル	J
	MI088790	PIN CORD	1M		PPコード アカ, シロ	UCRABG
	VB308200	PIN CORD	2M		PPコード キイ	UCRABG

*New Parts (新規部品)

ランク : Japan only

REMOTE CONTROL TRANSMITTER

■ EXPLODED VIEW



CUSTOM CODE

C0 C1 C2 C3 C4 C5 C6 C7
1 0 1 1 1 1 1 0

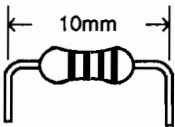
KEY No.	DATA CODE								FUNCTION
	D0	D1	D2	D3	D4	D5	D6	D7	
6	1	0	1	0	0	0	0	0	HALL 1
7	0	1	1	0	0	0	0	0	HALL 2
8	1	1	1	0	0	0	0	0	OPERA
9	0	0	0	1	0	0	0	0	CHURCH
11	0	1	0	1	0	0	0	0	PAVILION
12	1	1	0	1	0	0	0	0	ROCK CNCT
13	0	0	1	1	0	0	0	0	JAZZ CLUB
14	1	0	1	1	0	0	0	0	DISCO
16	1	1	1	1	0	0	0	0	STADIUM
17	0	0	0	0	1	0	0	0	MOVIE 1
18	1	0	0	0	1	0	0	0	MOVIE 2
19	0	1	0	0	1	0	0	0	PRO LOGIC
21	0	0	1	0	1	0	0	0	PARAMETER NEXT
23	0	1	1	0	1	0	0	0	PARAMETER DEC
24	1	1	1	0	1	0	0	0	PARAMETER INC
25	0	0	0	1	1	0	0	0	ON SCREEN ON/OFF
30	1	0	1	1	1	0	0	0	EFFECT ON/OFF
63	0	1	1	1	1	0	1	0	VOLUME UP
64	1	1	1	1	1	0	1	0	VOLUME DOWN

Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	12 K Ω	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 K Ω	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF85 3220	18 K Ω	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF85 3330	22 K Ω	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF85 3470	27 K Ω	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF85 3560	33 K Ω	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF85 4100	39 K Ω	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF85 4150	47 K Ω	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF85 4220	56 K Ω	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF85 4270	68 K Ω	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF85 4330	82 K Ω	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF85 4390	91 K Ω	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF85 4470	100 K Ω	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF85 4560	120 K Ω	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF85 4680	150 K Ω	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF85 4820	180 K Ω	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF85 5100	220 K Ω	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF85 5110	270 K Ω	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF85 5120	330 K Ω	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF85 5150	390 K Ω	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 K Ω	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF85 5180	560 K Ω	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF85 5220	680 K Ω	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF85 5270	820 K Ω	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF85 5330	1.0 M Ω	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF85 5390	1.2 M Ω	HJ35 9120	*
470 Ω	HJ35 5470	HF85 5470	1.5 M Ω	HJ35 9150	HF85 9150
510 Ω	*	HF85 5510	1.8 M Ω	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF85 5560	2.2 M Ω	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF85 5680	3.3 M Ω	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF85 5820	3.9 M Ω	HJ35 9390	*
910 Ω	HJ35 5910	HF85 5910	4.7 M Ω	HJ35 9470	HF85 9470
1.0 K Ω	HJ35 6100	HF85 6100			
1.2 K Ω	HJ35 6120	HF85 6120			
1.5 K Ω	HJ35 6150	HF85 6150			
1.8 K Ω	HJ35 6180	HF85 6180			
2.0 K Ω	HJ35 6200	HF85 6200			
2.2 K Ω	HJ35 6220	HF85 6220			
2.4 K Ω	HJ35 6240	HF85 6240			
2.7 K Ω	HJ35 6270	HF85 6270			
3.0 K Ω	HJ35 6300	HF85 6300			
3.3 K Ω	HJ35 6330	HF85 6330			
3.6 K Ω	HJ35 6360	HF85 6360			
3.9 K Ω	HJ35 6390	HF85 6390			
4.7 K Ω	HJ35 6470	HF85 6470			
5.1 K Ω	HJ35 6510	HF85 6510			
5.6 K Ω	HJ35 6560	HF85 6560			
6.8 K Ω	HJ35 6680	HF85 6680			
8.2 K Ω	HJ35 6820	HF85 6820			
9.1 K Ω	HJ35 6910	HF85 6910			
10 K Ω	HJ35 7100	HF85 7100			

1/4W Type

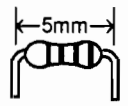
HJ35 ○○○○



10mm

1/6W Type

HF85 ○○○○



5mm