STEREO INTEGRATED AMPLIFIER

AVX-100/U

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 inherant 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, 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.

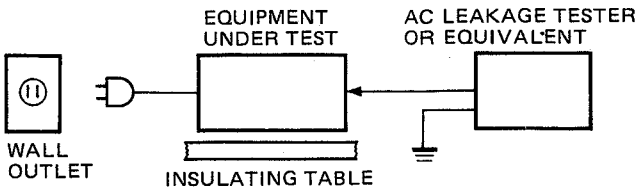
WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

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

■ 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 model only)**
  This amplifier 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.

■ CONTENTS

AVX-100/U

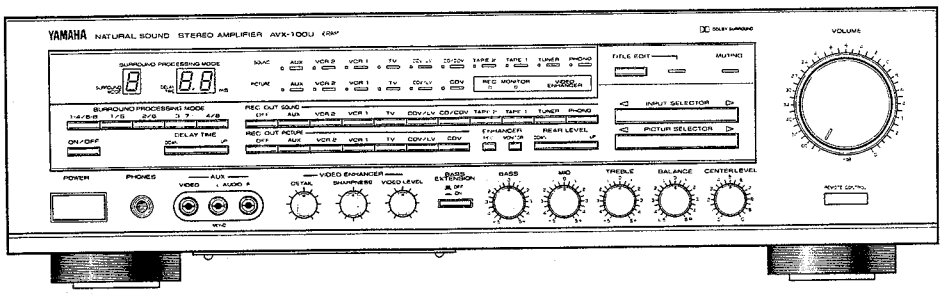
100188

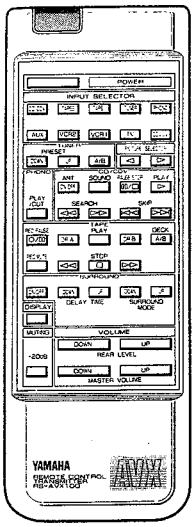
YAMAHA

YAMAHA CORPORATION HAMAMATSU, JAPAN
3.7K-662 Printed in Japan '88.8.

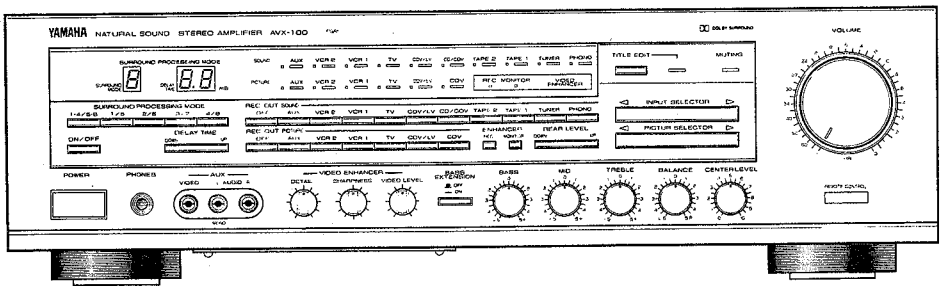
■ FRONT PANELS

- U, C models

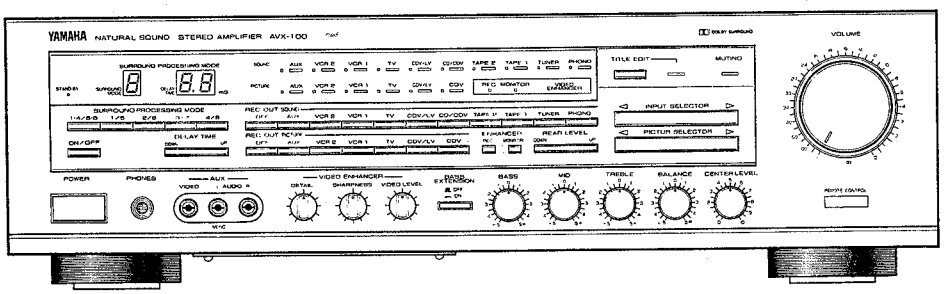




- R , A, B models

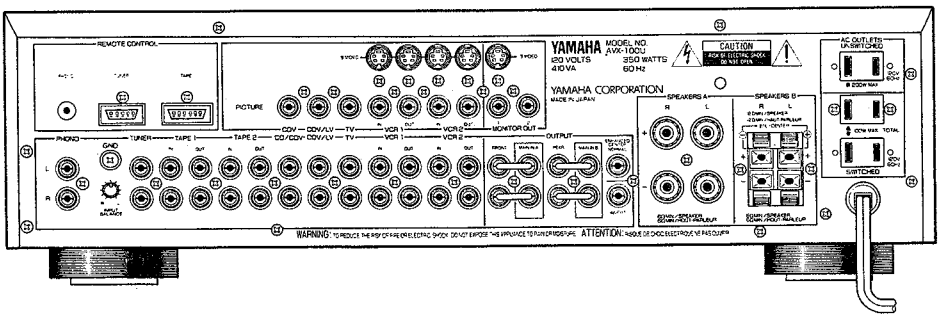


- G model

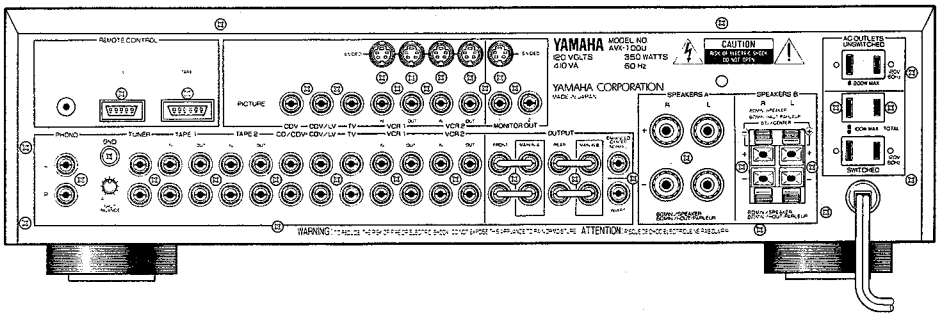


■ REAR PANELS

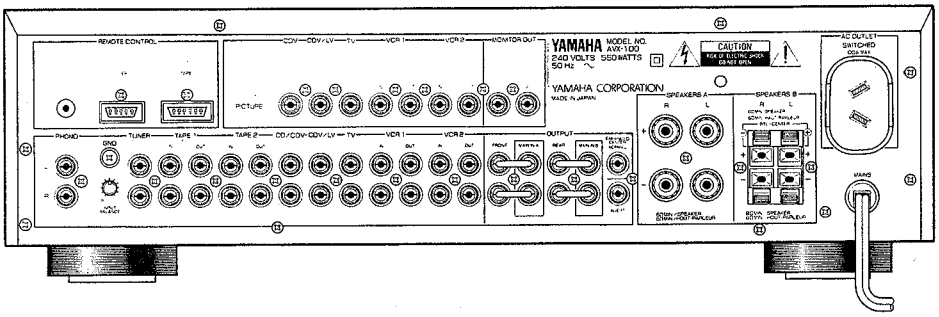
- U model



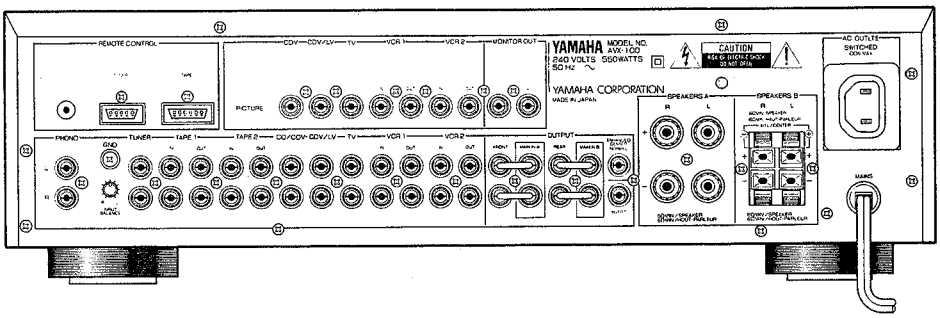
- **C models**



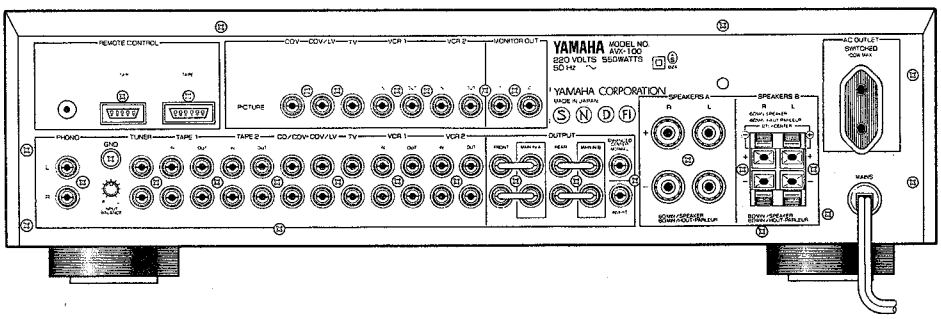
- **A model**



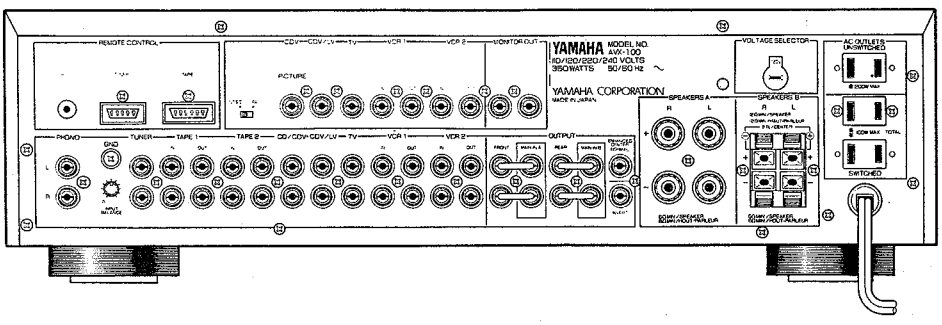
- **B model**



- **G model**



- **R model**



■ SPECIFICATIONS

AUDIO SECTION

Minimum RMS Output Power per Channel

MAIN IN A

8 ohms, 20 Hz to 20 kHz, 0.01% THD

. . . . . 65 W (U, C, R)

. . . . . 60 W (A, B, G)

6 ohms, 20 Hz to 20 kHz, 0.01% THD . . . . . 70 W

8 ohms, 1 kHz, 0.01% THD . . . . . 70 W

MAIN IN B

8 ohms, 1 kHz, 0.01% THD

. . . . . 14 W (U, C, R)

. . . . . 15 W (A, B, G)

6 ohms, 1 kHz, 0.01% THD . . . . . 15 W

Dynamic Power per Channel (by IHF)

MAIN IN A

8 ohms . . . . . 85 W

6 ohms . . . . . 105 W

MAIN IN B

8 ohms . . . . . 18 W

6 ohms . . . . . 20 W

DIN Shorted Output Power Per Channel

MAIN IN A

4 ohms, 1 kHz . . . . . 80 W (G)

MAIN IN B

4 ohms, 1 kHz . . . . . 18 W (G)

Dynamic Headroom

MAIN IN A

8 ohms . . . . . 1.2 dB

6 ohms . . . . . 1.8 dB

MAIN IN B

8 ohms . . . . . 1.1 dB

6 ohms . . . . . 1.2 dB

IEC Power

MAIN IN A

6 ohms, 1 kHz . . . . . 70 W (G)

MAIN IN B

6 ohms, 1 kHz . . . . . 18 W (G)

Damping Factor (1 kHz, 8 ohms)

MAIN IN A . . . . . More than 90

MAIN IN B . . . . . More than 40

Input Sensitivity/Impedance

PHONO MM . . . . . 2.5 mV/47 k-ohms

CD etc. . . . . 150 mV/47 k-ohms

MAIN IN A . . . . . 1 V/33 k-ohms

MAIN IN B . . . . . 340 mV/33 k-ohms

Input Sensitivity (New IHF)

PHONO MM . . . . . 0.353 mV

CD etc. . . . . 21.2 mV

Maximum Input Level

PHONO MM, 1 kHz . . . . . 100 mV

Output Level/Impedance

REC OUT . . . . . 150 mV/100 ohms

PRE OUT . . . . . 1 V/1 k-ohms

Maximum Voltage Output

20 Hz to 20 kHz, 0.001% THD . . . . . 5 V

Headphone Jack Rated Output/Impedance

0.1% THD, 1 kHz, RL = 100 ohms . . . 2.2 V/100 ohms

Frequency Response

40 Hz to 20 kHz, CD etc. . . . . 0 ± 1 dB

20 Hz to 20 kHz, MAIN IN . . . . . 0 ± 1 dB

RIAA Equalization Deviation

PHONO MM . . . . . ± 0.5 dB

Total Harmonic Distortion

(20 Hz to 20 kHz)

PHONO MM, 1 V . . . . . Less than 0.005%

CD etc. to Pre Out, 3 V . . . . . Less than 0.005%

MAIN IN A to SP Out, 35 W/8 ohms

. . . . . Less than 0.005%

(20 Hz to 10 kHz)

MAIN IN B to SP Out, 7W/8 ohms

. . . . . Less than 0.01%

Signal to Noise Ratio (IHF-A Network)

PHONO MM (5 mV Input Shorted)

. . . . . More than 86 dB

CD etc. . . . . More than 96 dB

MAIN IN A (Shorted) . . . . . More than 120 dB

MAIN IN B (Shorted) . . . . . More than 106 dB

Signal to Noise Ratio (New IHF)

PHONO MM . . . . . 75 dB

CD etc. . . . . 77 dB

Residual Noise (IHF-A Network) . . . . . 200 μV

Channel Separation (Vol. -30 dB, 1 kHz/10 kHz)

PHONO MM (Input Shorted) . . . . . 65 dB/50 dB

CD etc. (Input 5.1 k-ohms Terminated) . . 65 dB/50 dB

Tone Control Characteristics

BASS boost/cut . . . . . ±10 dB (50 Hz)
turnover frequency . . . . . 350 Hz
TREBLE boost/cut . . . . . ±10 dB (20 kHz)
turnover frequency . . . . . 3.5 kHz
MID boost/cut . . . . . ±10 dB (1 kHz)
center frequency . . . . . 1 kHz

Filter Characteristics

Subsonic . . . . . 20 Hz 12 dB/oct

Audio Muting . . . . . -20 dB

Gain Tracking Error (0 ~ -60 dB) . . . . . 3 dB

BASS Extension (70 Hz) . . . . . +7 dB

VIDEO SECTION

Video Signal Type (Lines/Field) . . . NTSC 525/60 (U, C)
NTSC 525/60 and PAL 625/50 (R)
PAL 625/50 (A, G, B)

Video Signal

Input . . . . . 1 Vp-p 75 ohms, Unbalanced
Output . . . . . 1 Vp-p 75 ohms, Unbalanced
Maximum Input . . . . . 1.5 Vp-p 75 ohms

Video Signal to Noise Ratio . . . . . 50 dB

Detail Control Level . . . . . -6 dB ~ +3 dB (1 MHz)

Sharpness Control Level . . . . . 0 dB ~ +10 dB (2 MHz)

Video Level Control . . . . . -3 dB ~ +3 dB

S-Video

Input-Y (Unbalanced) . . . . . 1 Vp-p 75 ohms (U, C)
Input-C (Unbalanced) . . . . . 0.3 Vp-p 75 ohms (U, C)
Output-Y (Unbalanced) . . . . . 1 Vp-p 75 ohms (U, C)
Output-C (Unbalanced) . . . . . 0.3 Vp-p 75 ohms (U, C)

GENERAL

Power Supply . . . . . AC120 V 60 Hz (U, C)
AC110/120/220/240 V 50/60 Hz (R)
AC220 V 50 Hz (G)
AC240 V 50 Hz (A, B)

Power Consumption . . . . . 350 W (U)
410 VA/350 W (C)
350 W (R)
550 W (A, B, G)

AC Outlet

Switched . . . . . 100 W Max.
Unswitched . . . . . 200 W Max. (U, C, R)

Dimensions (W x H x D)

. . . . . 435 x 126 x 340 (380 max.) mm
(17-1/8 x 4-15/16 x 13-3/8 (14-15/16 max.) inch)

Weight . . . . . 9.6 kg
(21 lbs. 2 oz.)

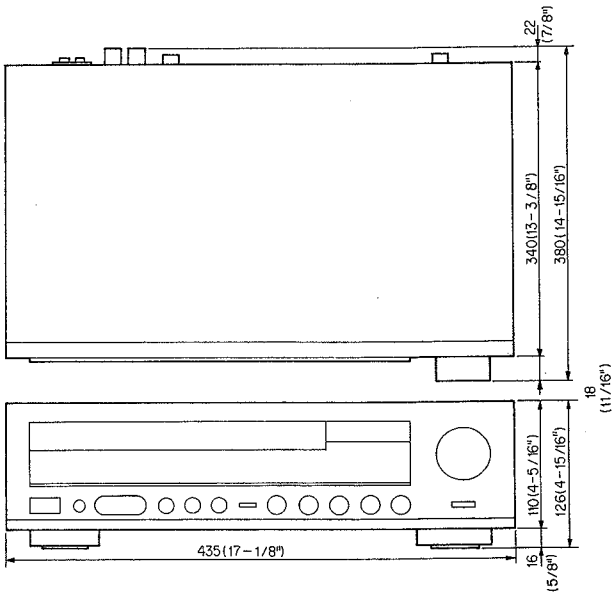
* Specifications subject to change without notice.

(U) . . . . U.S.A. Model
(C) . . . . . Canadian Model
(A) . . . . Australian Model
(B) . . . . . British Model
(G) . . . . European Model
(R) . . . . Others Model

DOLBY SURROUND

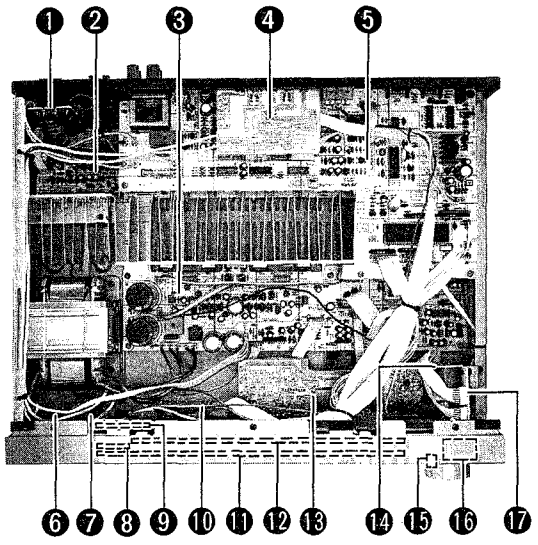
Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792, and 3,959,590; Canada numbers 1,004,603 and 1,037,877. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

■ DIMENSIONS



Unit : mm (inch)

■ INTERNAL VIEW



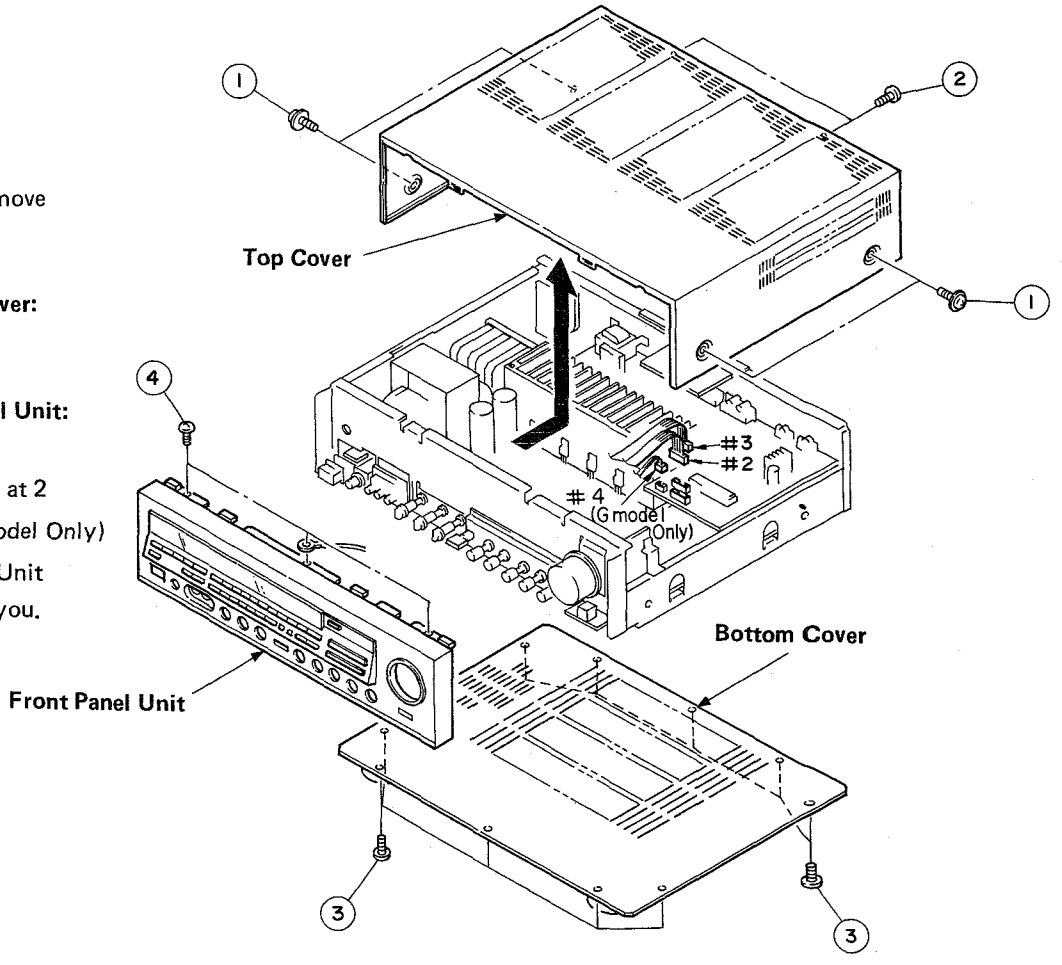
❶ MICROCOMPUTER CIRCUIT BOARD (12): U, C, R models
MICROCOMPUTER CIRCUIT BOARD (13): G model
MICROCOMPUTER CIRCUIT BOARD (14): A, B models
❷ SUB-AMPLIFIER SHEET
❸ MAIN CIRCUIT BOARD (1)
❹ S-TERMINAL CIRCUIT BOARD: U, C models
❺ MICROCOMPUTER CIRCUIT BOARD (1)
❻ MICROCOMPUTER CIRCUIT BOARD (11)
❼ MAIN CIRCUIT BOARD (3)
❽ MICROCOMPUTER CIRCUIT BOARD (4)
❾ MICROCOMPUTER CIRCUIT BOARD (10)
❿ MICROCOMPUTER CIRCUIT BOARD (9)
⓫ MICROCOMPUTER CIRCUIT BOARD (2)
⓬ MICROCOMPUTER CIRCUIT BOARD (3)
⓭ MAIN CIRCUIT BOARD (2)
⓮ MICROCOMPUTER CIRCUIT BOARD (6)
⓯ MICROCOMPUTER CIRCUIT BOARD (7)
⓰ MICROCOMPUTER CIRCUIT BOARD (8)
⓱ MICROCOMPUTER CIRCUIT BOARD (5)

■ DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered)

1. How to remove Top Cover:
a. Remove 4 screws of (1).
b. Remove 2 screws of (2).
c. Slide it back a little and remove trying to lift it up.

2. How to remove Bottom Cover:
a. Remove 10 screws of (3).

3. How to remove Front Panel Unit:
a. Remove 3 screws of (4).
b. Remove Connector located at 2 places (#2, #3), #4 (G model Only)
c. Remove the Front Panel Unit trying to pull it toward you.



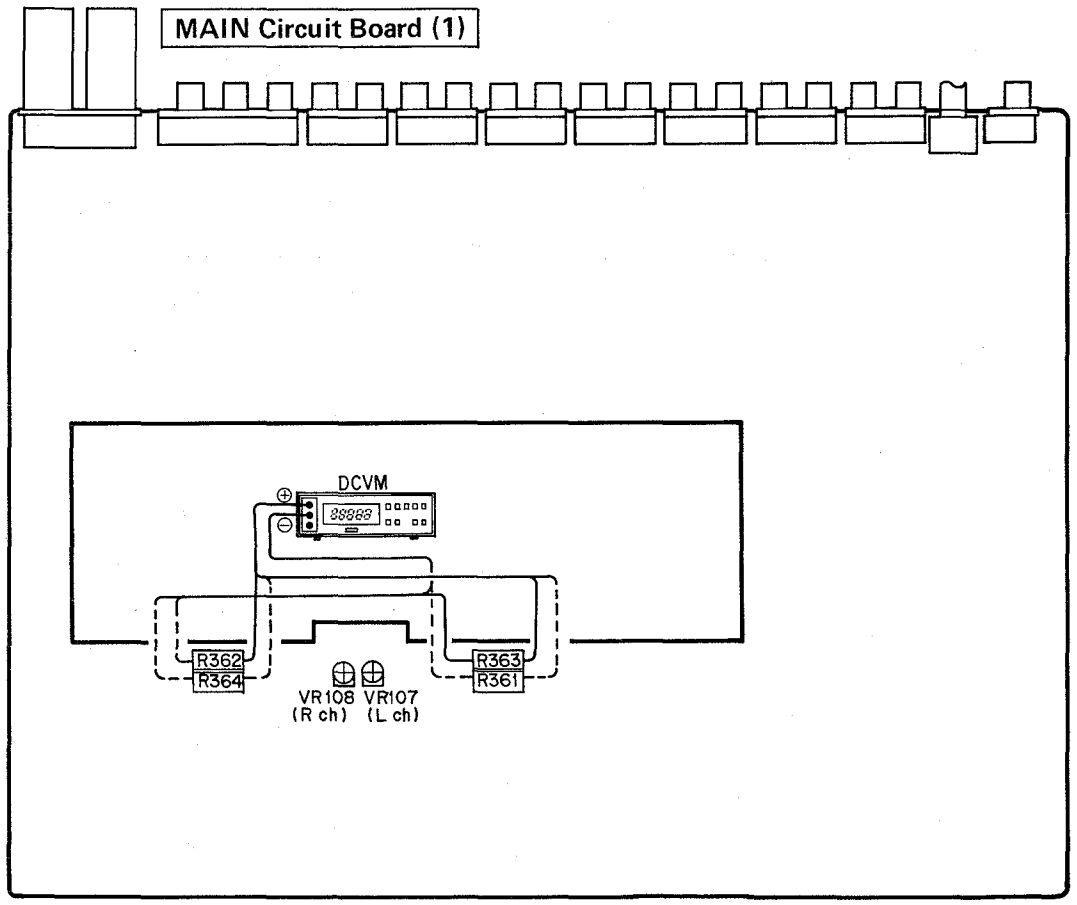
■ ADJUSTMENTS

■ Before the adjustment is done;

- In order to stabilize work of amplifier, conduct aging for 3 minutes with Power ON under unloading status (no connection is done on the Speaker Terminal).

Adjustment	Place to be measured	Adjusting Place	Specification
Idling Elec. current of Main Amplifier	Both end (Lch) of R361 or R363	VR107 (Lch)	DC1mV ~ 2mV
	Both end (Rch) of R362 or R364	VR108 (Rch)	DC1mV ~ 2mV

- **Test Point**



Remarks:

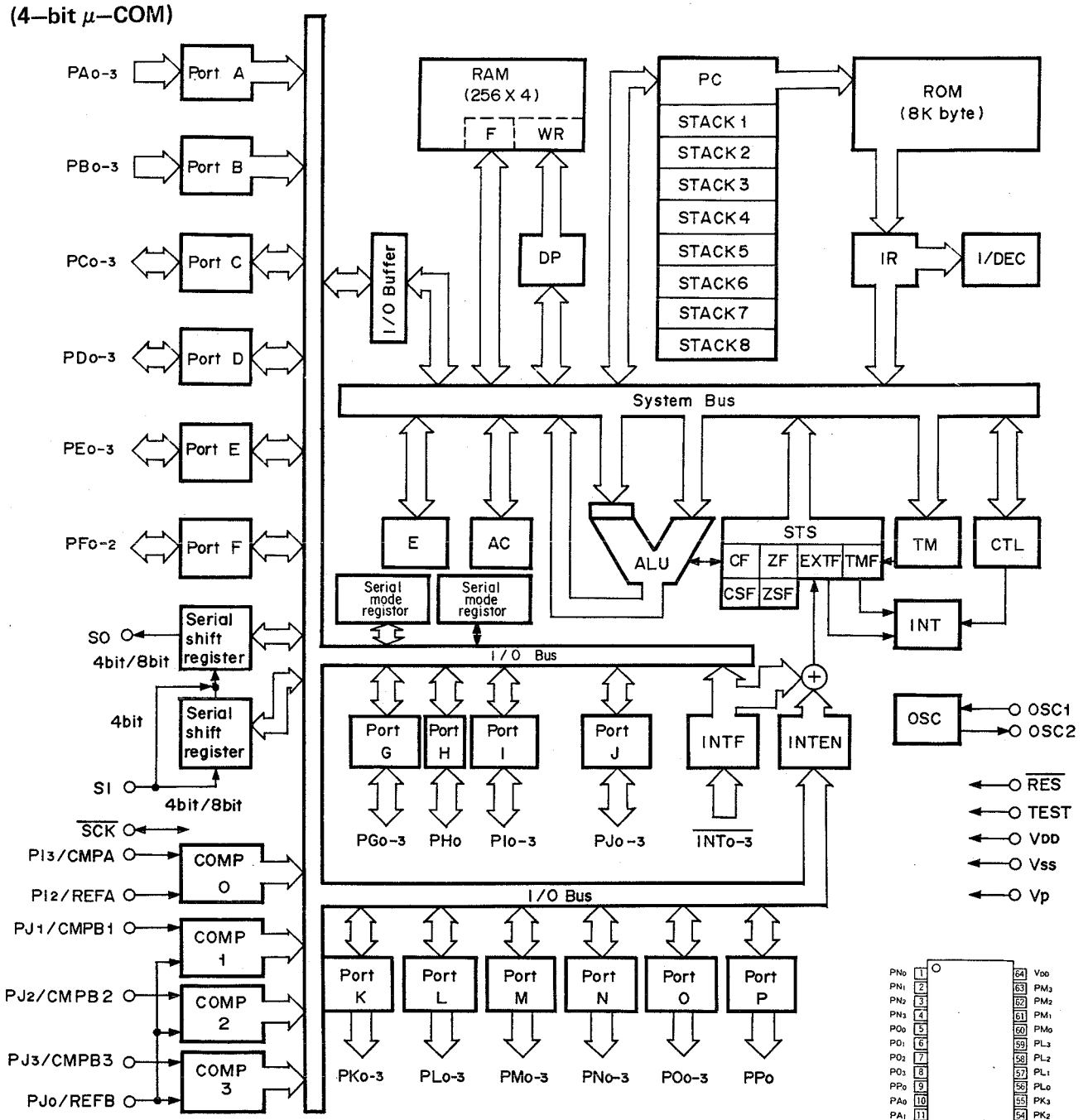
- With reference to Initialization of Micro-computer;

  < Method > Put Power Switch to ON pushing all three Surround Mode Switches located from the left (◁◁ SEARCH ▷▷, PLAY) at the same time. And if you will let your hand off from the switches, the initialization will finish.

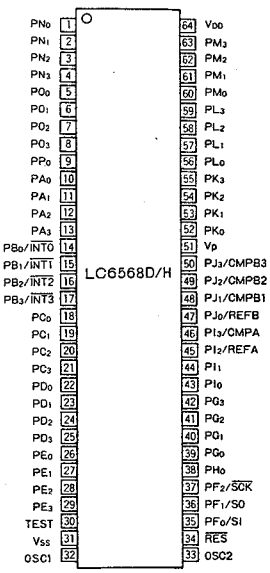
  < Content > INPUT: CD/CDV, REC OUT: CD/CDV, SURROUND MODE 4 (DOLBY)/ON, DELAY TIME: with all modes of 1 through to 8, it is 20 msec.
  REAR LEVEL: -12 dB, ENHANCER: OFF, TITLE EDIT: Content will clear, and it will be MUTING: OFF.

■ IC BLOCK

IC411: LC6568H–3734
(4–bit μ–COM)

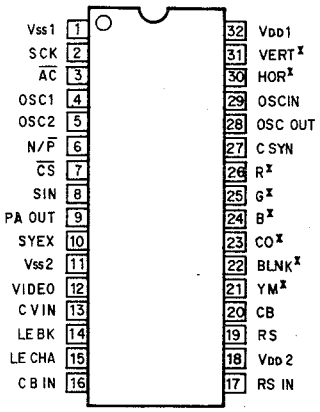


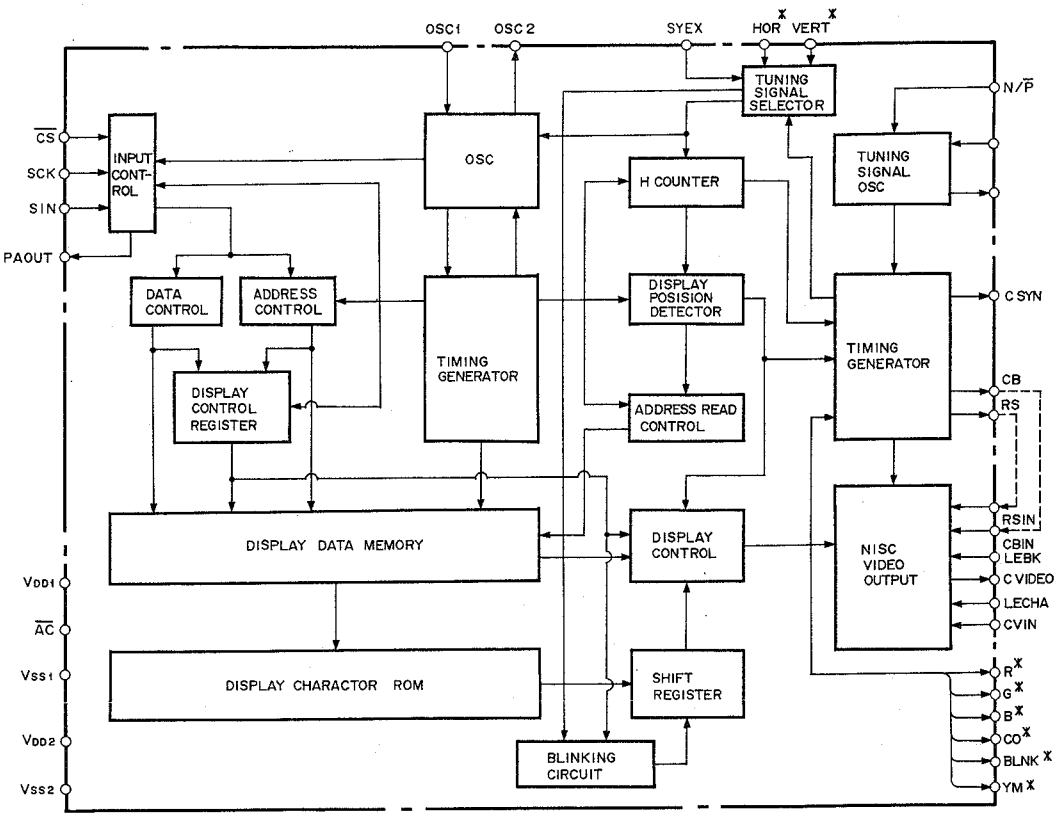
RAM	: Data memory	ROM	: Program memory
F	: Flag	PC	: Program counter
WR	: Working register	INT	: Interrupt control
AC	: Accumulator	IR	: Instruction register
ALU	: Arithmetic and logic unit	I.DEC	: Instruction decoder
DP	: Data pointer	CF, CSF	: Carry flag, carry save flag
E	: E register	ZF, ZSF	: Zero flag, zero save flag
CTL	: Control register	EXTF	: External interrupt request
OSC	: Oscillator	TMF	: Internal interrupt request
TM	: Timer	INTF	: Interrupt request flag
STS	: Status register	INTEN	: Interrupt enable flag



PIN NO.	PIN NAME	P-UP P-DOWN	FUNCTION	PIN NO.	PIN NAME	P-UP P-DOWN	FUNCTION
1	a	IN P-DOWN	SEGMENT a	64	V_{DD}		+5V
2	b	IN P-DOWN	SEGMENT b	63	PWR.	OUT P-DOWN	POWER RELAY
3	c	IN P-DOWN	SEGMENT c	62	M2	IN P-DOWN	DIGIT M2
4	d	IN P-DOWN	SEGMENT d	61	M1	IN P-DOWN	DIGIT M1
5	e	IN P-DOWN	SEGMENT e	60	M0	IN P-DOWN	DIGIT M0
6	f	IN P-DOWN	SEGMENT f	59	$\overline{SPI}$	OUT P-DOWN	$\overline{CHIP\ SELECT\ SUPERIMPOSE}$
7	g	IN P-DOWN	SEGMENT g	58	CV	OUT P-DOWN	CHIP SELECT REAR VOLUME
8	h	IN P-DOWN	SEGMENT h	57	A0	OUT P-DOWN	CHIP SELECT DIGITAL DELAY
9	PHO	IN P-DOWN	RS-PLAYER	56	$\overline{MUT}$	OUT P-DOWN	$\overline{MUTE}$ (-∞)
10	K0		KEY INPUT K0	55	RS3	IN P-DOWN	RS-TUNER 1/RS-DECK 3
11	K1		K1	54	RS2	IN P-DOWN	RS-TUNER 0/RS-DECK 2
12	K2		K2	53	RS1	IN P-DOWN	VOL DOWN/RS-DECK 1
13	K3		K3	52	RS0	IN P-DOWN	VOL UP/RS-DECK 0 (0) (1) : SEL
14	K4		K4	51	G		GND
15	PSW		POWER SW INPUT	50	D	OUT P-UP	VIDEO CONTROL D
16	REM		REMOTE CONTROL INPUT	49	PR2	OUT P-UP	PICTURE REC. OUT SELECTOR
17	G		GND	48	PR1	OUT U-UP	
18	SR0	OUT P-UP	SOUND REC. OUT SELECTOR SR0	47	PR0	OUT P-UP	
19	SR1	OUT P-UP	SR1	46	C	OUT P-UP	VIDEO CONTROL C
20	SR2	OUT P-UP	SR2	45	PI2	OUT P-UP	PICTURE INPUT SELECTOR
21	SR3	OUT P-UP	SR3	44	PI1	OUT P-UP	
22	SI0	OUT P-UP	SOUND INPUT SELECTOR SI0	43	PI0	OUT P-UP	
23	SI1	OUT P-UP	SI1	42	A	OUT P-UP	VIDEO CONTROL A
24	SI2	OUT P-UP	SI2	41	$\overline{AMT}$	OUT P-UP	$\overline{AUDIO\ MUTE}$ (-20dB)
25	SI3	OUT P-UP	SI3	40	DET	OUT P-UP	POWER (ON:H) DETECT (INPUT)
26	SU0	OUT P-UP	SURROUND MODE SU0	39	SU4	OUT P-UP	SURROUND MODE SU4
27	SU1	OUT P-UP	SU1	38	PAL	OUT P-UP	PAL/$\overline{NTSC}$ (INPUT)
28	SU2	OUT P-UP	SU2	37	$\overline{SCK}$	OUT P-UP	$\overline{SERIAL\ CLOCK}$
29	SU3	OUT P-UP	SU3	36	SO	OUT P-UP	SERIAL OUT
30	G		GND	35	SEL	IN P-UP	RS-SELECTOR (H:DECK)
31	G		GND	34	$\overline{RES}$		$\overline{RESET}$
32	XI		OSC INPUT	33	XO		OSC OUTPUT

IC407: M50455–060SP
(Super Impose)

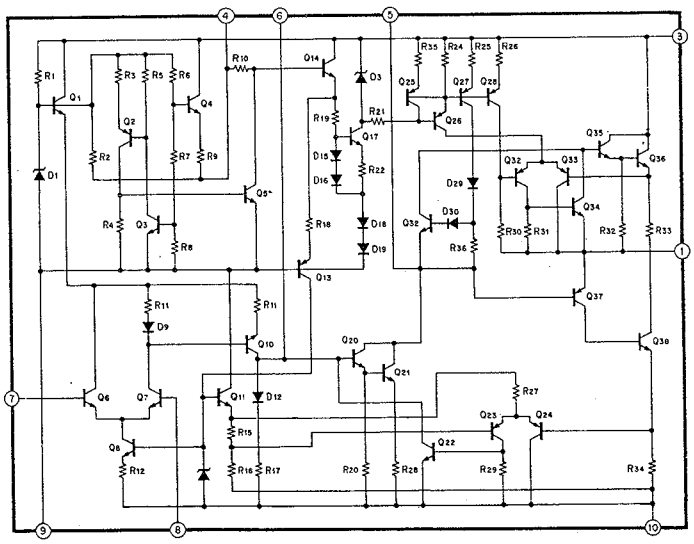




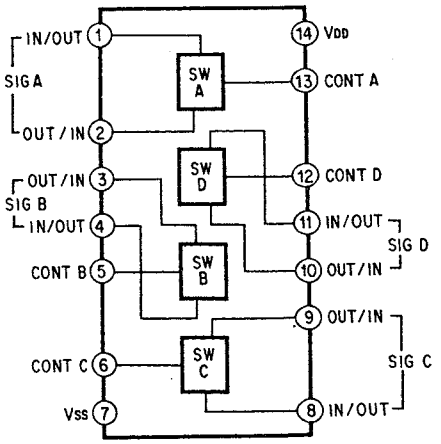
Pin No.	Symbol	Pin Description	Function
1	Vss1	EARTH TERMINAL	Connect with GND by Digital system Earth Terminal.
2	SCX	SERIAL CLOCK INPUT	When it is SC Terminal "L", Serial Data of SIN is taken in with the start-up of SCK. Histeresis Input.
3	AC	AUTOMATIC CLEAR INPUT	Reset IC Internal Circuit with "L" status. Pull-up Resistance has been contained. Hysteresis Input.
4	OSC1	OSCILLATION CIRCUIT EXTERNAL TERMINAL	External Terminal for Oscillation Circuit for indication use. The standard Oscillation Frequency is about 7MHz.
5	OSC2		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	SIN	SERIAL DATA INPUT	Data and Address of Memory for use in the Display Register and Display Data are input by Serial.
9	PAOUT	PARITY OUTPUT	It is Odd Number Parity Output, and it will detect 1 bit mistake in a word of SIN.
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 Register of Address 243 in the Display Control Register. Pull-Up Resistance is contained.
11	Vss1	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 CVIN Signal.
13	CVIN	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	CBIN	COLOR BURST INPUT	It will input transforming CB Output to Color Burst Level by External Circuit.

Pin No.	Symbol	Pin Description	Function
17	RSIN	LETTERING BACK-GROUND CARRIER COLOR SIGNAL INPUT	Input is done transforming RS Output to Carrier Color Signal Level of Video Signal by External Circuit.
18	VDD2	POWER SOURCE TERMINAL	Connect with +5V by Analog system Power Source Terminal.
19	RS	LETTERING BACK-GROUND CARRIER COLOR SIGNAL OUTPUT	It is Carrier Color Signal Output for the coloring of Lettering 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 BACK-GROUND 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	OSCOUT	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	OSCIN		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

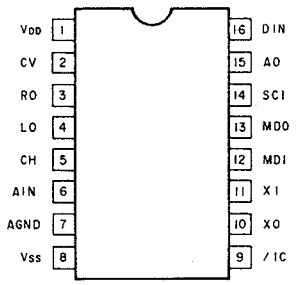
IC3, 4: μPC1188H (Power IC)

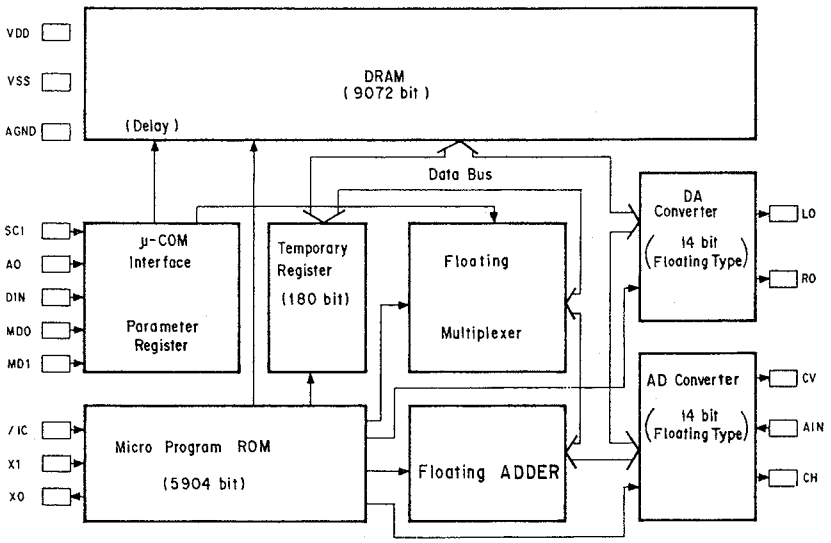


IC107, 108: μPD4066BC or LC4066
IC410: TC4066BP or μPD4066BC or LC4066 or MN4066B (Analog Switch)



IC116: YM3428
(Digital Delay Circuit)

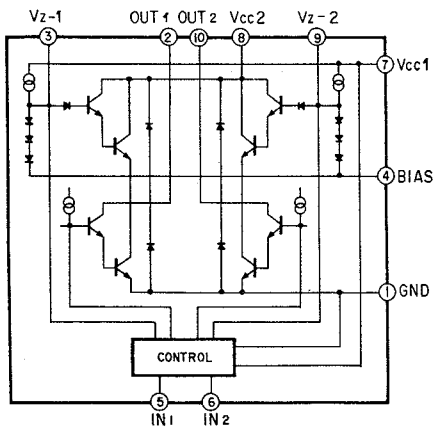




Pin No.	Name	I/O	Function
1	VDD	—	+5V Power Supply Terminal
2	CV	0	Reference Voltage (+2.5V) Output Terminal for A/D Conversion use
3	R0	0	D/A Conversion Analog Signal Output Terminal for R-ch use
4	LO	0	D/A Conversion Analog Signal Output Terminal for L-ch use
5	CH	0	Condensor Externally Attached Terminal for sample holding use
6	A IN	I	Analog Signal Input Terminal
7	A GND	—	Common earthing shall be done at the outside with Ground VSS Terminal for use in Input A/D Conversion and Output D/A Conversion.
8	VSS	—	Digital System Ground
9	/IC	*I	Reset Terminal
10	X0	0	Crystal Vibrator Connection Terminal
11	XI	I	Crystal Vibrator Connection Terminal (System Clock Input Terminal)
12	MD1	*I	Mode Setting Terminal
13	MD0	*I	Mode Setting Terminal
14	SCI	I	Data Shift Clock Input Terminal for Micro Computer use
15	AO	I	Address/Data Identifying Signal Input Terminal or Address/Data Discrimination Signal Input Terminal
16	DIN	I	Data Input Terminal for use in Micro Computer

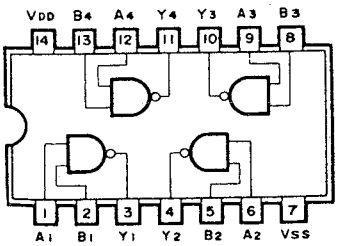
NOTE: Terminal marked with * means that Pull-up Resistance has been built-in.

IC403: BA6229
(Motor Turning IC)

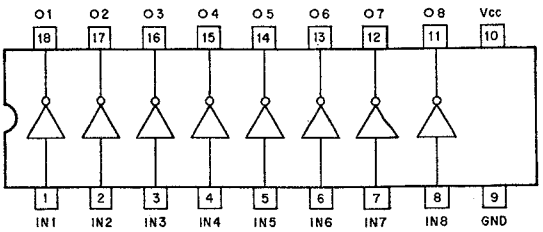


INPUT		OUTPUT		MODE
IN1 (5pin)	IN2 (6pin)	OUT1 (2pin)	OUT2 (10pin)	
L	L	OPEN	OPEN	STOP
H	L	H	L	FWD
L	H	L	H	RVS
H	H	L	L	BRAKE

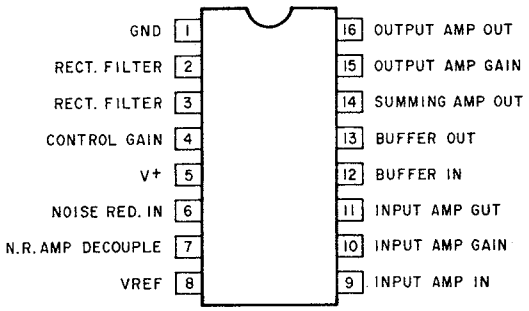
IC109: TC4011BP or BU4011B or MN4011B
(Quad 2–Input Positive NAND Gates)

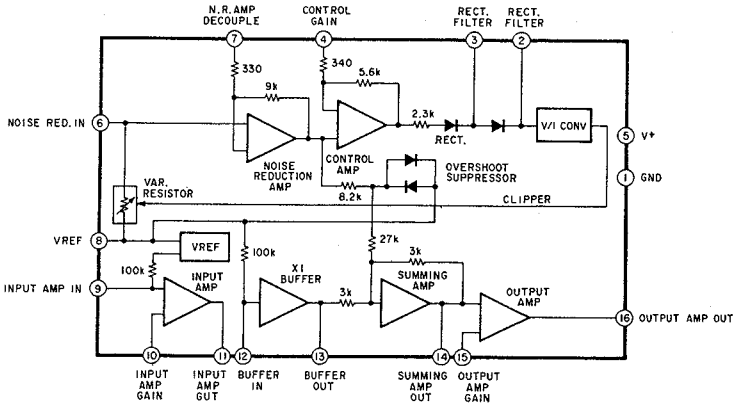


IC415: M54584P
(Transistor Array)

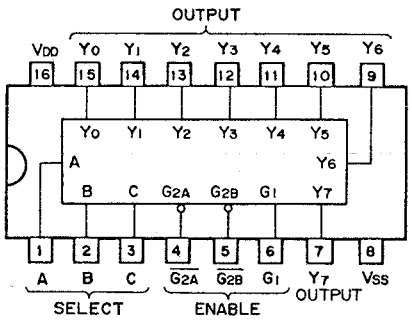


IC121: LA2730
(Dolby Encoder/Decoder)





IC414: TC74HC238P or μPD74HC238C
(Decoder/Demultiplexer)



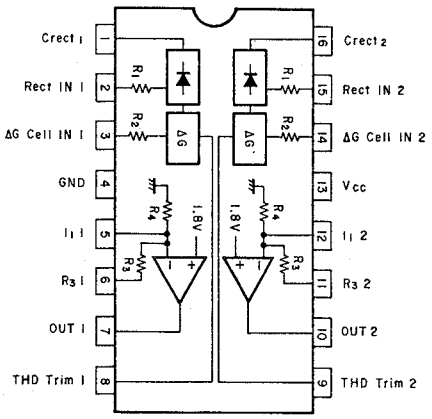
Truth Table

INPUT					OUTPUT							
ENABLE		SELECT										
G_1	$\overline{G_2}*$	C	B	A	Y_0	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7
×	H	X	×	×	L	L	L	L	L	L	L	L
L	×	X	×	×	L	L	L	L	L	L	L	L
H	L	L	L	L	H	L	L	L	L	L	L	L
H	L	L	L	H	L	H	L	L	L	L	L	L
H	L	L	H	L	L	L	H	L	L	L	L	L
H	L	L	H	H	L	L	L	H	L	L	L	L
H	L	H	L	L	L	L	L	L	H	L	L	L
H	L	H	L	H	L	L	L	L	L	H	L	L
H	L	H	H	L	L	L	L	L	L	L	H	L
H	L	H	H	H	L	L	L	L	L	L	L	H

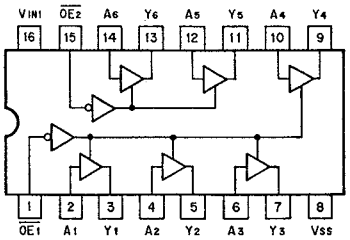
$\overline{G_2}* = \overline{G_{2A}} \times \overline{G_{2B}}$

H: HIGH LEVEL L: LOW LEVEL X: H or L

IC115, 120, 130: μPC1571
(Conpresser)



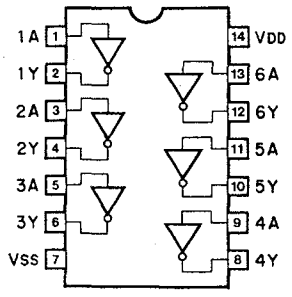
IC401, 402: TC74HC367P or μPD74HC367C or M74HC367



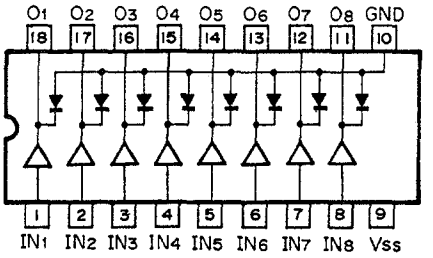
INPUT		OUTPUT
$\overline{\text{OUTPUT ENABLE}}$ OE	A	Y
L	L	L
L	H	H
H	X	Z

H: HIGH LEVEL
L: LOW LEVEL
X: H or L
Z: HIGH IMPEDANCE

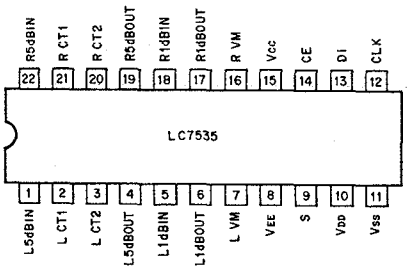
IC406:
TC74HC04P or μPD74HC04P or M74HC04P or MN74HC04
(Hex Inverters)

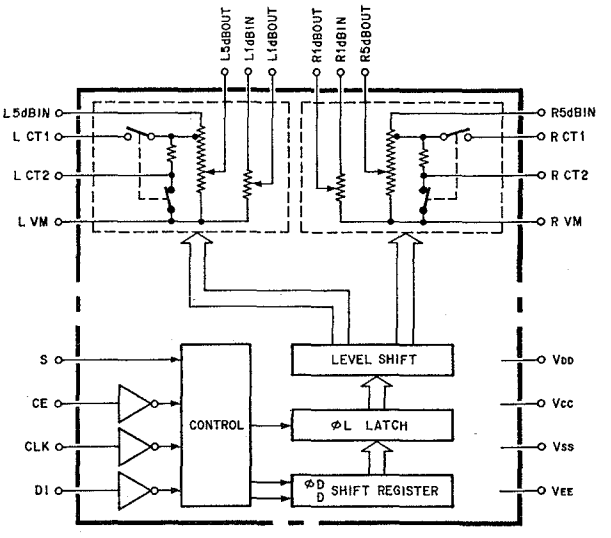


IC416: M54562
(Transistor Array with Clamp Diode)

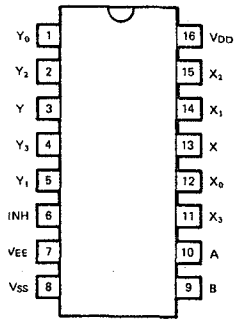


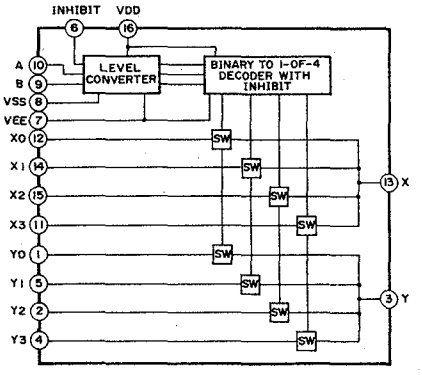
IC126: LC7535
(Serial Control Electrolytic Volume)





IC101 ~ 106, 110, 122, 123: μPD4052BC
IC409, 601: TC4052BP or μPD4052BC
(Differential 4–ch Multiplexer/Demultiplexer)



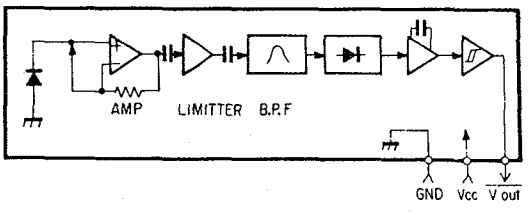


Truth Table

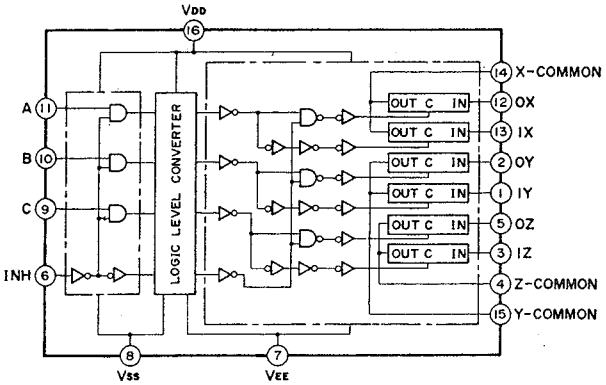
CONTROL INPUT				"ON"
INHIBIT	C	B	A	
L	L	L	L	Y_0、X_0
L	L	L	H	Y_1、X_1
L	L	H	L	Y_2、X_2
L	L	H	H	Y_3、X_3
L	H	L	L	—
L	H	L	H	—
L	H	H	L	—
L	H	H	H	—
H	×	×	×	NONE

H: HIGH LEVEL L: LOW LEVEL X: H or L
*EXCEPT μPD4052BC/4052BG

U401: GP1U521A
(Remote Control Receptor)



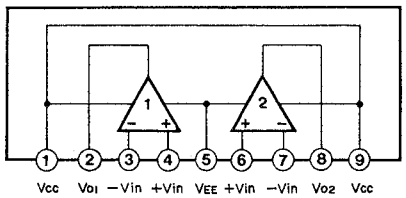
IC112: μPD4053BC
IC408: TC4053BP or μPD4053BC or BU4053B or MN4053B
(Triple 2–ch Multiplexer/Demultiplexer)



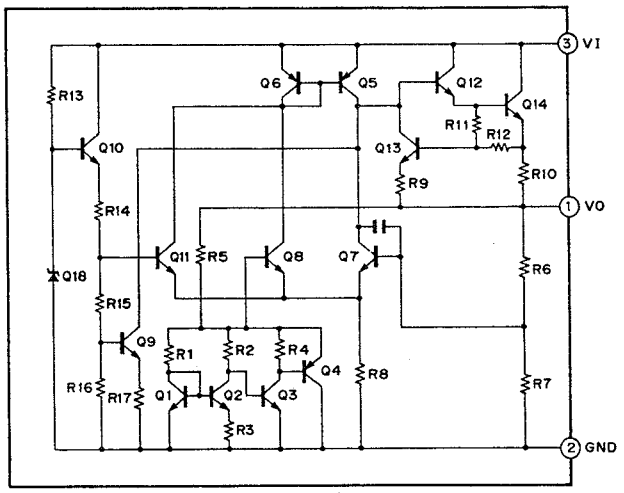
CONTROL INPUTS				"ON" CHANNEL
INHIBIT (Pin 6)	C (Pin 9)	B (Pin 10)	A (Pin 11)	0X (Pin 12), 0Y (Pin 2), 0Z (Pin 5) 1X (Pin 13), 1Y (Pin 1), 1Z (Pin 3)
L	L	L	L	0X, 0Y, 0Z
L	L	L	H	1X, 0Y, 0Z
L	L	H	L	0X, 1Y, 0Z
L	L	H	H	1X, 1Y, 0Z
L	H	L	L	0X, 0Y, 1Z
L	H	L	H	1X, 0Y, 1Z
L	H	H	L	0X, 1Y, 1Z
L	H	H	H	1X, 1Y, 1Z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

• Don't Care

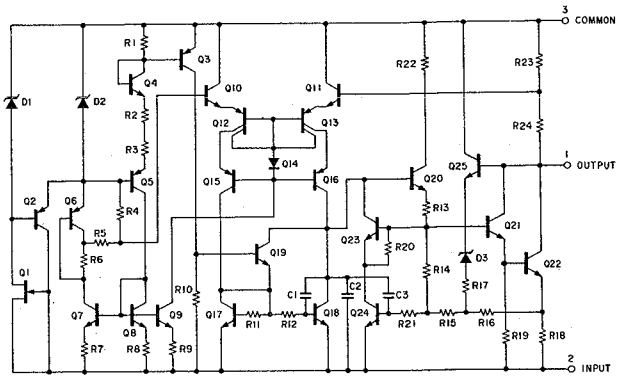
IC129: NJM4556S
IC1, 2, 117, 131: NJM4558S
(Ope–Amp)
IC111, 113, 114, 118, 119, 125, 127, 128, 134: μPC4570HA
(Ope–Amp)
IC124: NJM2043S
(Pre–Amp)



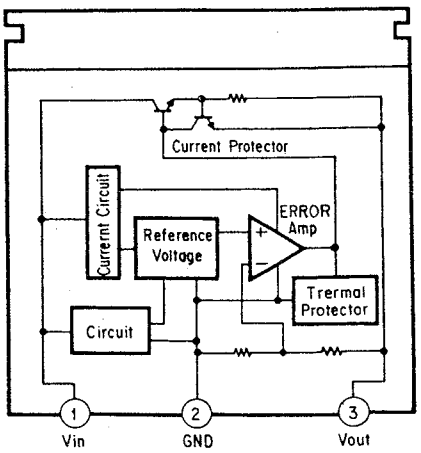
IC413: NJM78L05 or μPC78L05J
(Regulator)



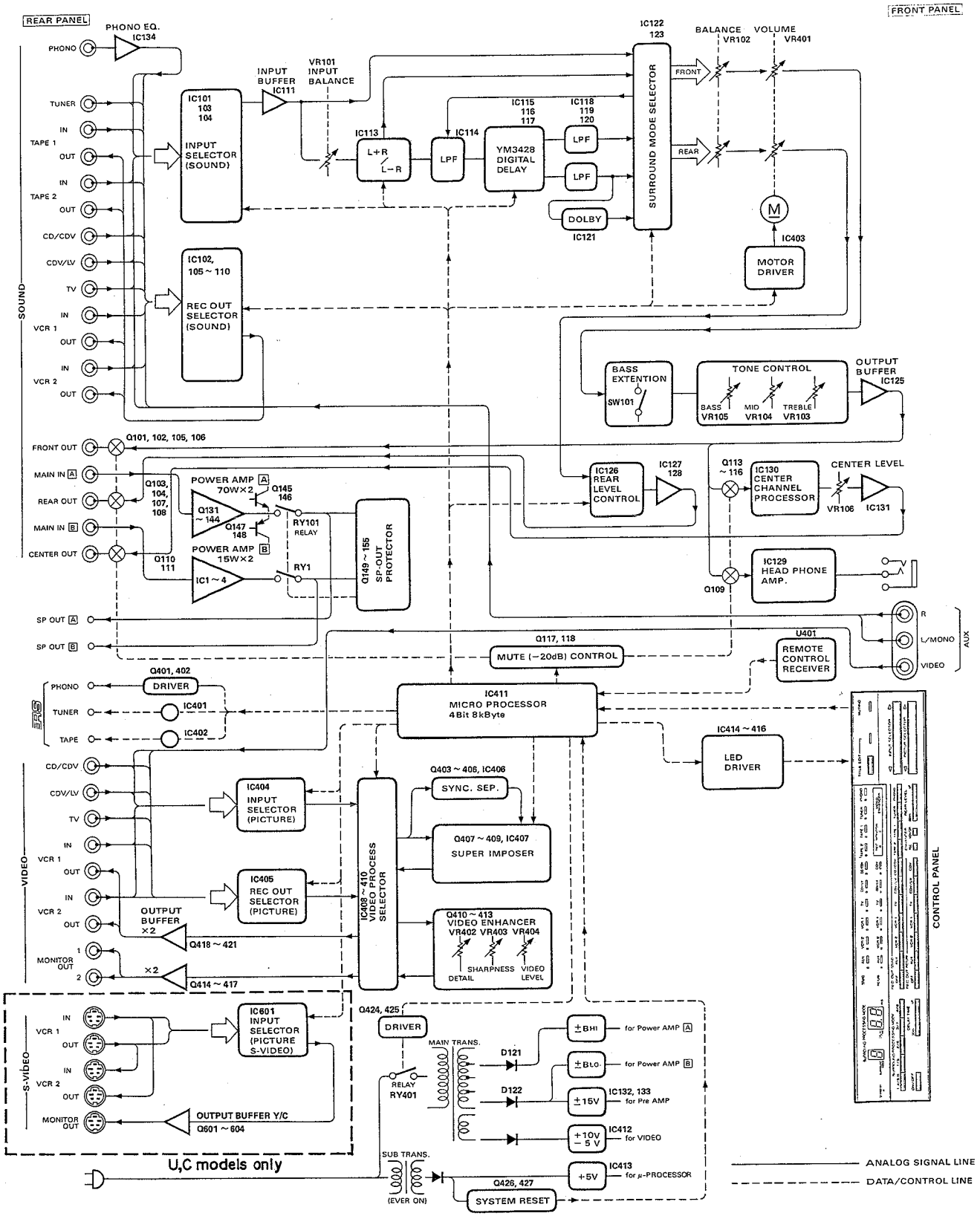
IC132: AN79M15F
(Regulator)



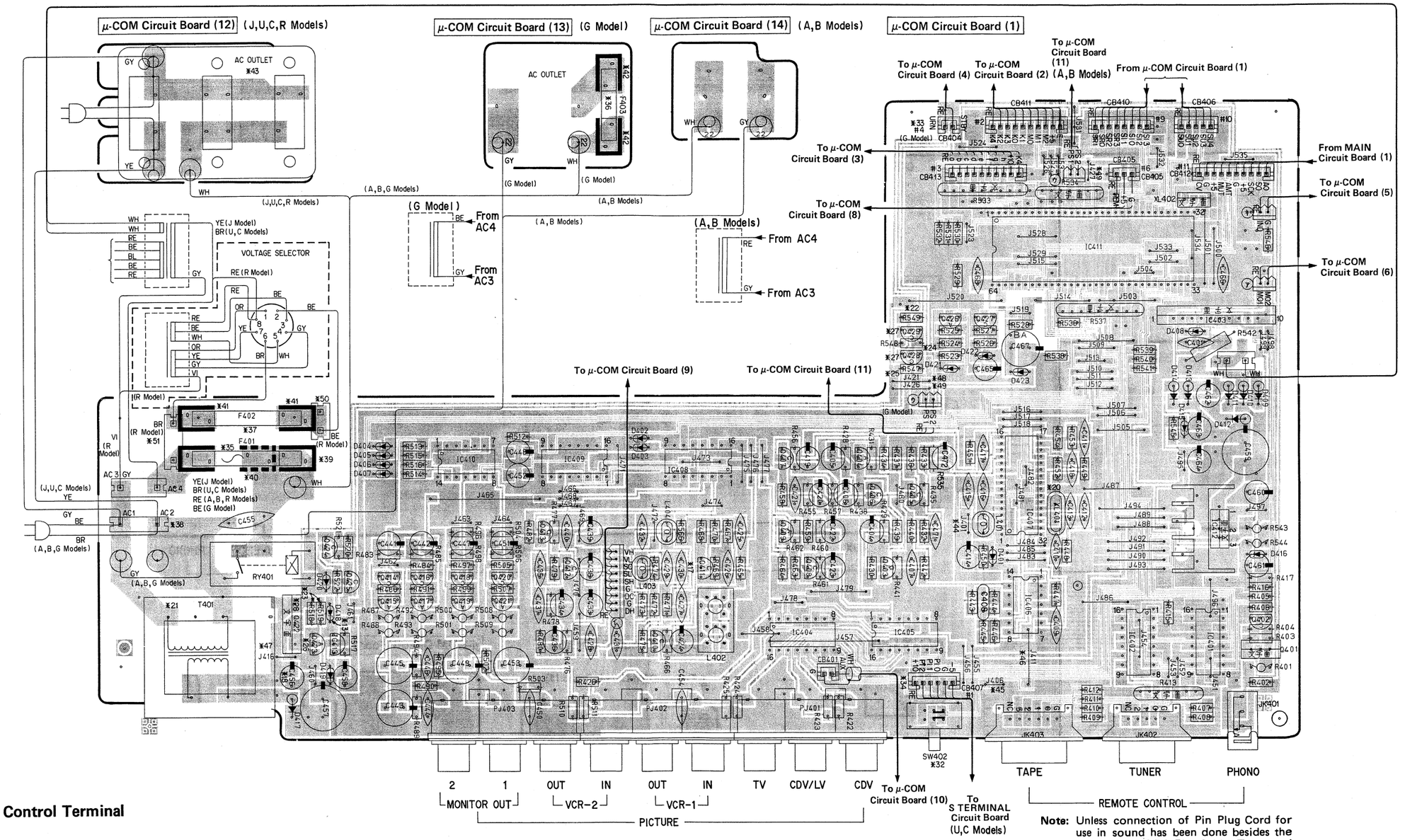
IC133: AN78M15F
IC412: AN7810F
(Regulator)



■ BLOCK DIAGRAM



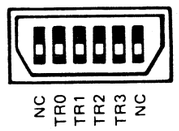
■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面：Component Side



Note: Unless connection of Pin Plug Cord for use in sound has been done besides the connection of RS Flat Cable, Tuner and Cassette Deck will not work. Therefore, be sure to confirm it.

● Remote Control Terminal

(TAPE)



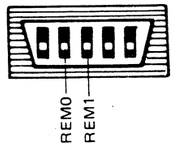
TR3	TR2	TR1	TR0	MODE
L	L	L	L	NO DATA
L	L	L	H	STOP
L	L	H	L	FF
L	L	H	H	REW
L	H	L	L	PLAY
L	H	L	H	REC PAUSE
L	H	H	L	REC MUTE
L	H	H	H	FADER
H	L	L	L	CUE
H	L	L	H	REVIEW
H	H	L	L	DIRECTION

NOTES): Elec.Voltage ····· H: 3 15V
L: Less than 0.6V

Pulse Width ····· More than 30m sec.

Output Inpedance
Less than 10K Ω

(TUNER)

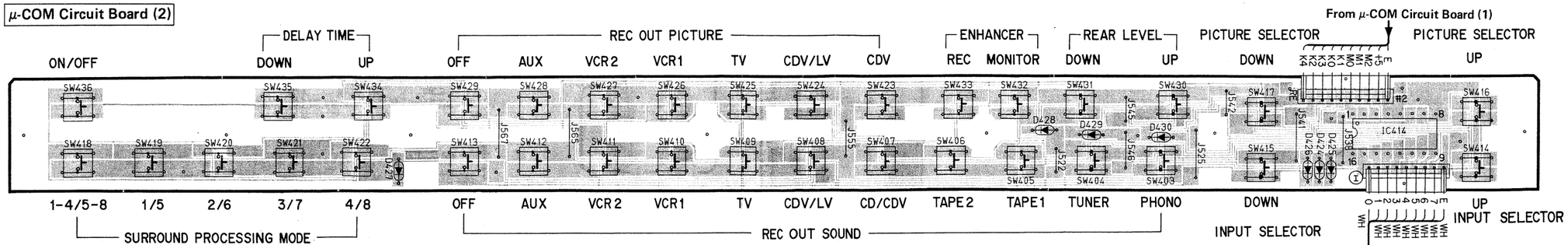


MODE	REM 0	REM 1
UP	H	L
DOWN	L	H
P1-P8/P9-P16	H	H

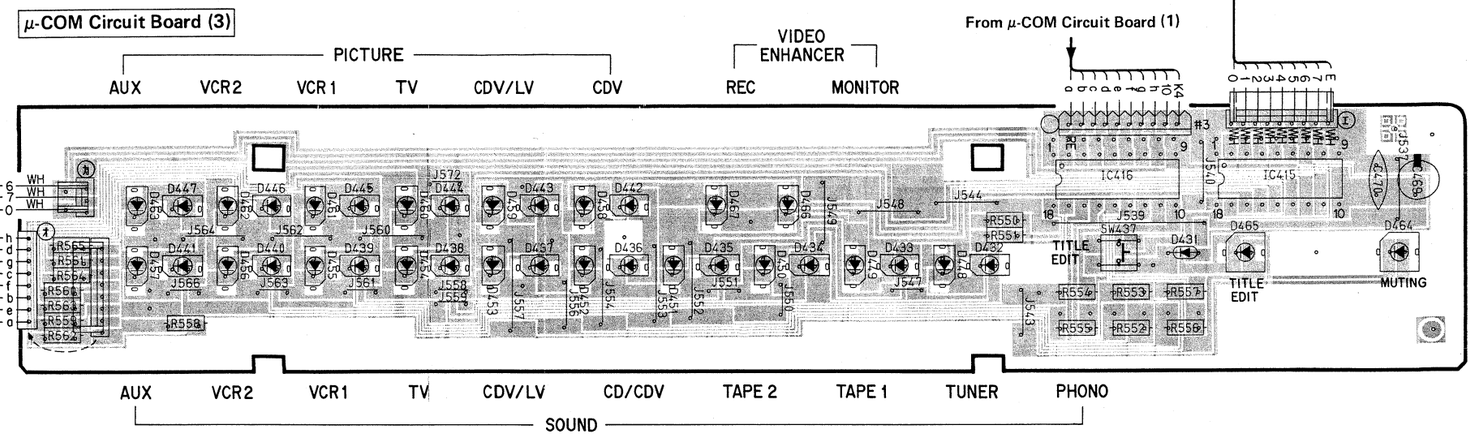
L = 0～1.5V
H = 3.3～5.5V

■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面：Component Side

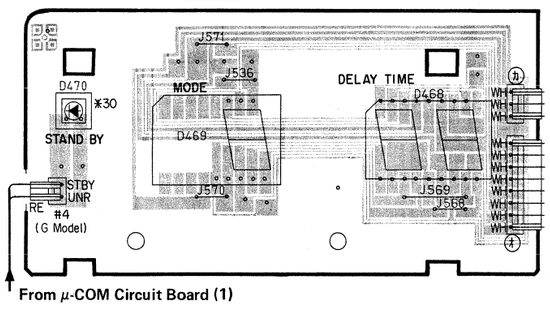
μ-COM Circuit Board (2)



μ-COM Circuit Board (3)



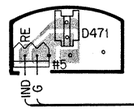
μ-COM Circuit Board (4)



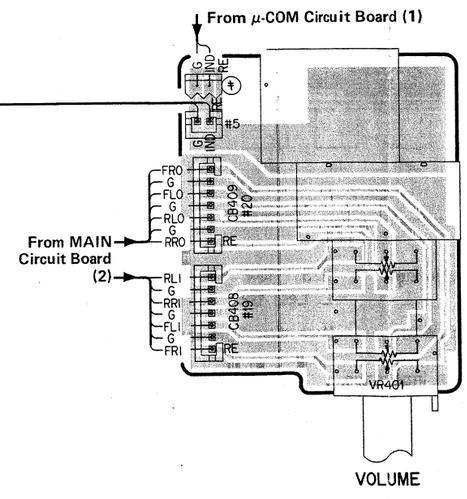
Note: * marked

*		J	U	C	R	A, B	G
1	C103, 104	OPEN				→	100P
2	C121 ~ 154	OPEN				→	470P
3	C329, 330	OPEN				→	4700P
4	C331 ~ 334	OPEN				→	0.01
5	C105, 106	OPEN				→	Ⓟ 150P/100
6	L101, 102	OPEN				→	15μH
7	L103, 104	OPEN				→	220μH
8	R103, 104	47				→	OPEN
9	R105, 106	OPEN				→	47
10	R101, 102	OPEN				→	2.2K
11	R377, 378	OPEN				→	4.7
12	D121	4D4B41	→	RB402	4D4B41		→
13	J101, 102	○				→	X
14	C303, 304	10000/63	8200/63				→
15	R387, 388	2P 1.2K	→	2P 1K	2P 1.2K		→
16	SPEAKER TERMINAL	VF01840				→	VF82400
17	C430	680P				→	470P →
18	C456	OPEN		→	47/63	OPEN	→
19	L404	15μH			→	10μH	→
20	XL401	14.31818MHz			→	17.734475MHz	→
21	T401	XA752	XA754	→	XA753	XE938	XE585
22	R549	OPEN				→	2.2K
23	R518, 519	OPEN		→	4.7K	OPEN	→
24	R548	OPEN				→	10K
25	R547	OPEN				→	100K
26	Q423	OPEN		→	○	OPEN	→
27	Q428, 429	OPEN				→	○
28	Q422	OPEN		→	○	OPEN	→
29	D418	OPEN		→	MTZ12B	OPEN	→
30	D470	OPEN				→	LD-101VR
31	SW401	KA80455				→	KA80447
32	SW402	OPEN		→	○	OPEN	→
33	CB404	X				→	○
34	CB407	○		→	X		→
35	F401	T5A 250V	5A 250V			T2.5A 250V	→
36	F403	OPEN				→	T2.5A 250V
37	F402	OPEN		→	T3.5A 250V	OPEN	→
38	TERMINAL	X			→	○	→
39	FUSE HOLDER	○			→	X	→
40	FUSE HOLDER	X			→	○	→
41	FUSE HOLDER	X		→	○	X	→
42	FUSE HOLDER	X				→	○
43	AC OUTLET	○			→	X	→
44	J401	X			→	○	→
45	J406	○		→	X		→
46	J411	X		→	○	X	→
47	J416	○		→	X	○	X
48	J421	○				→	X
49	J426, 427	X				→	○
50	TERMINAL	X		→	○	X	→
51	TERMINAL	X		→	○	X	→
52	C37, 38	OPEN				→	0.01
53	C35, 36	OPEN				→	4700P
54	SCREW TERMINAL	X				→	○

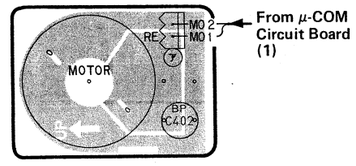
μ-COM Circuit Board (7)



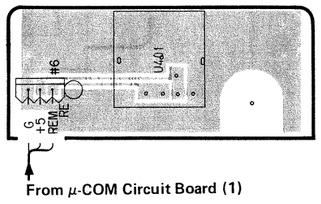
μ-COM Circuit Board (5)



μ-COM Circuit Board (6)

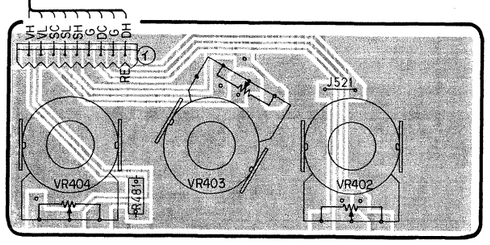


μ-COM Circuit Board (8)

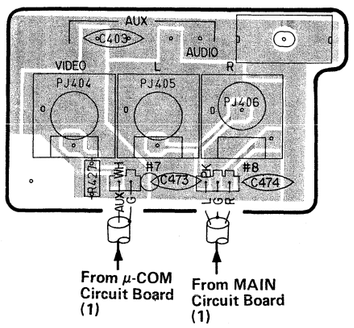


■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

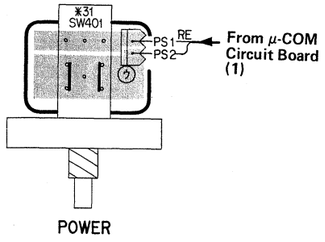
From μ-COM Circuit Board (1) — μ-COM Circuit Board (9)



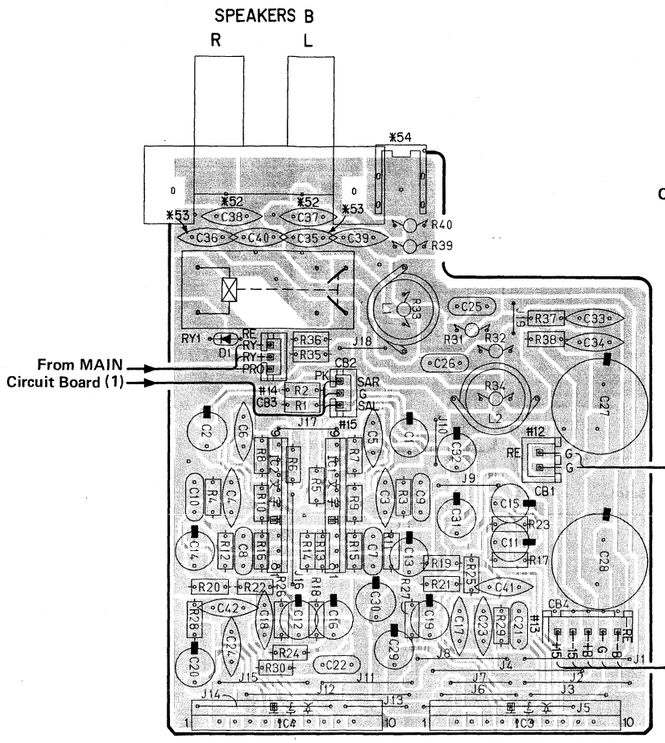
μ-COM Circuit Board (10)



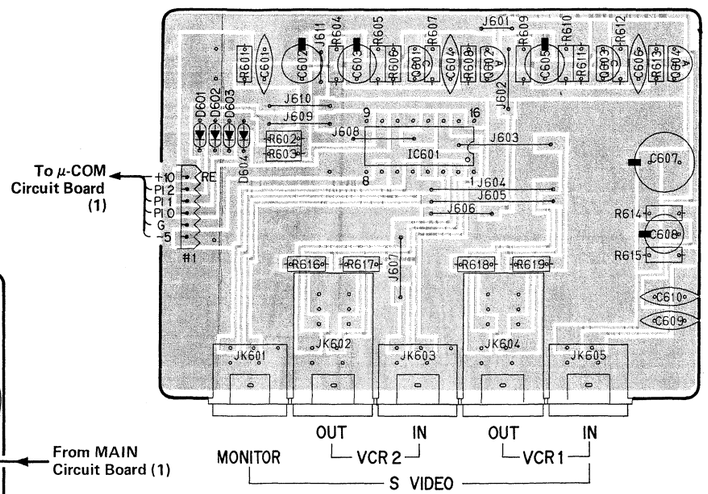
μ-COM Circuit Board (11)



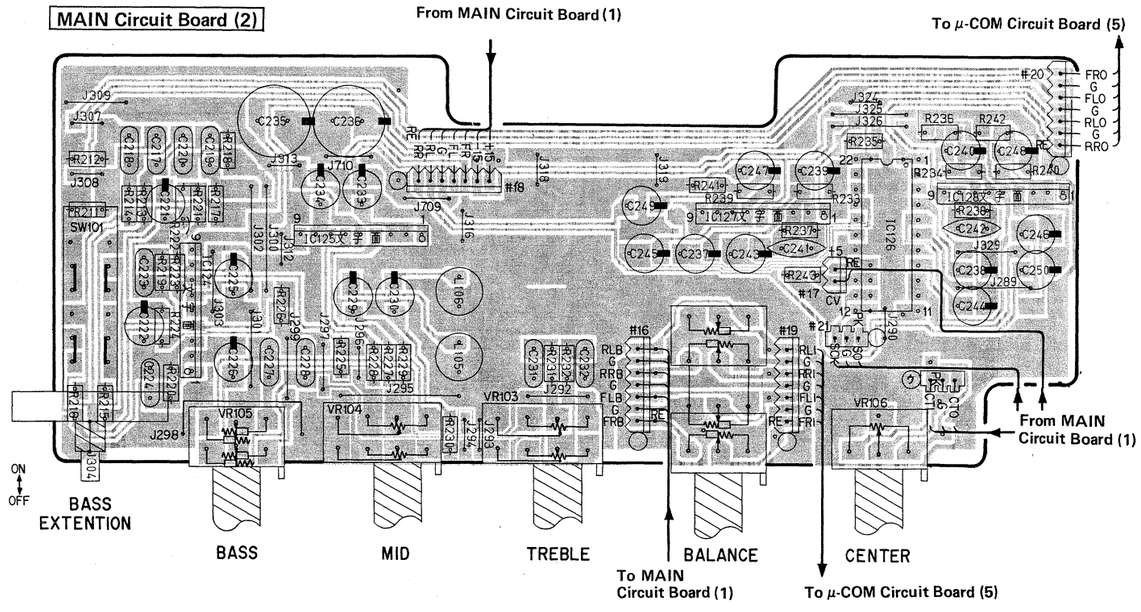
SUB AMP Circuit Board



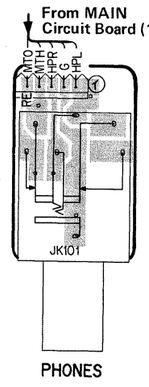
S TERMINAL Circuit Board (U,C Models Only)



MAIN Circuit Board (2)



MAIN Circuit Board (3)

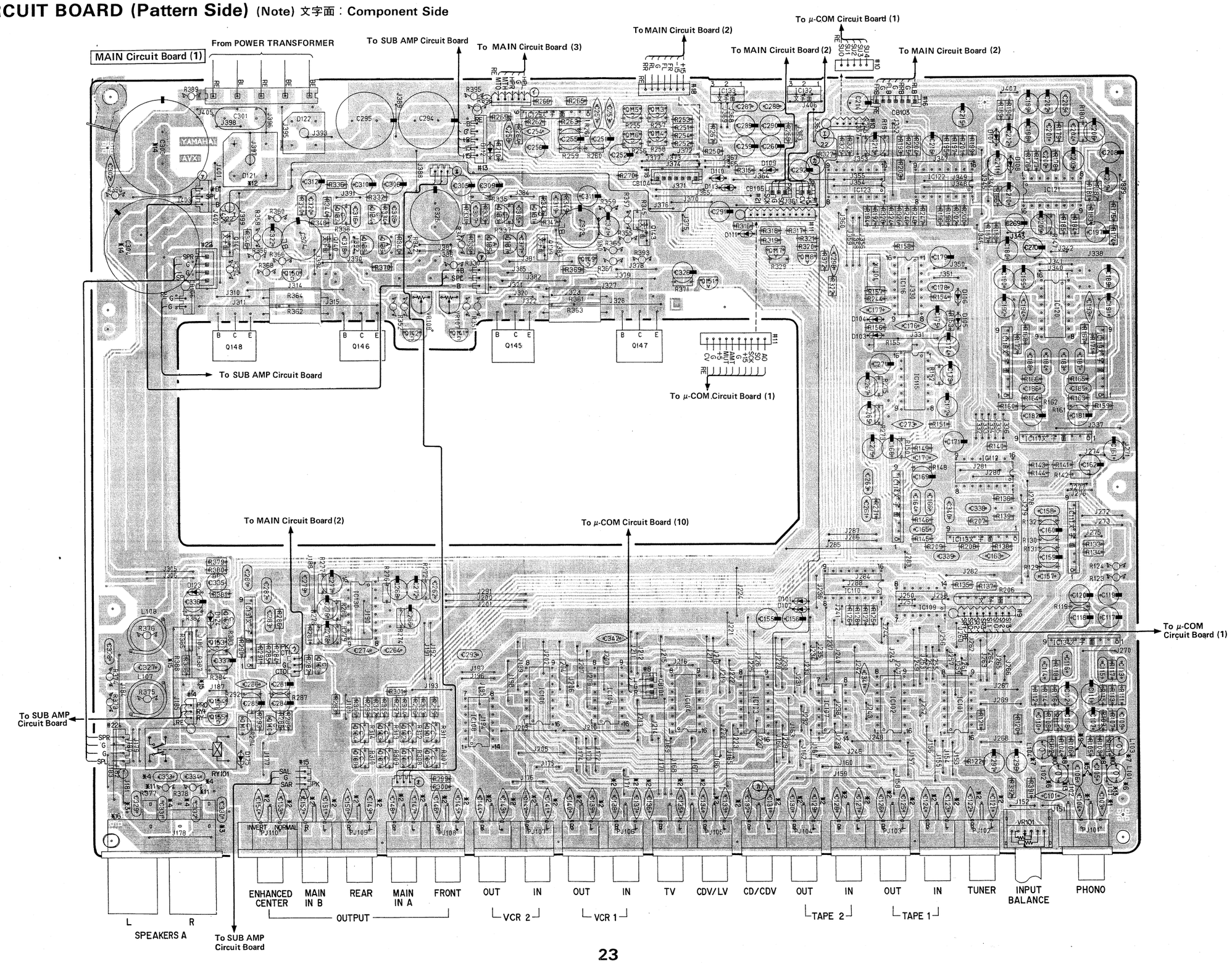


Note: * marked

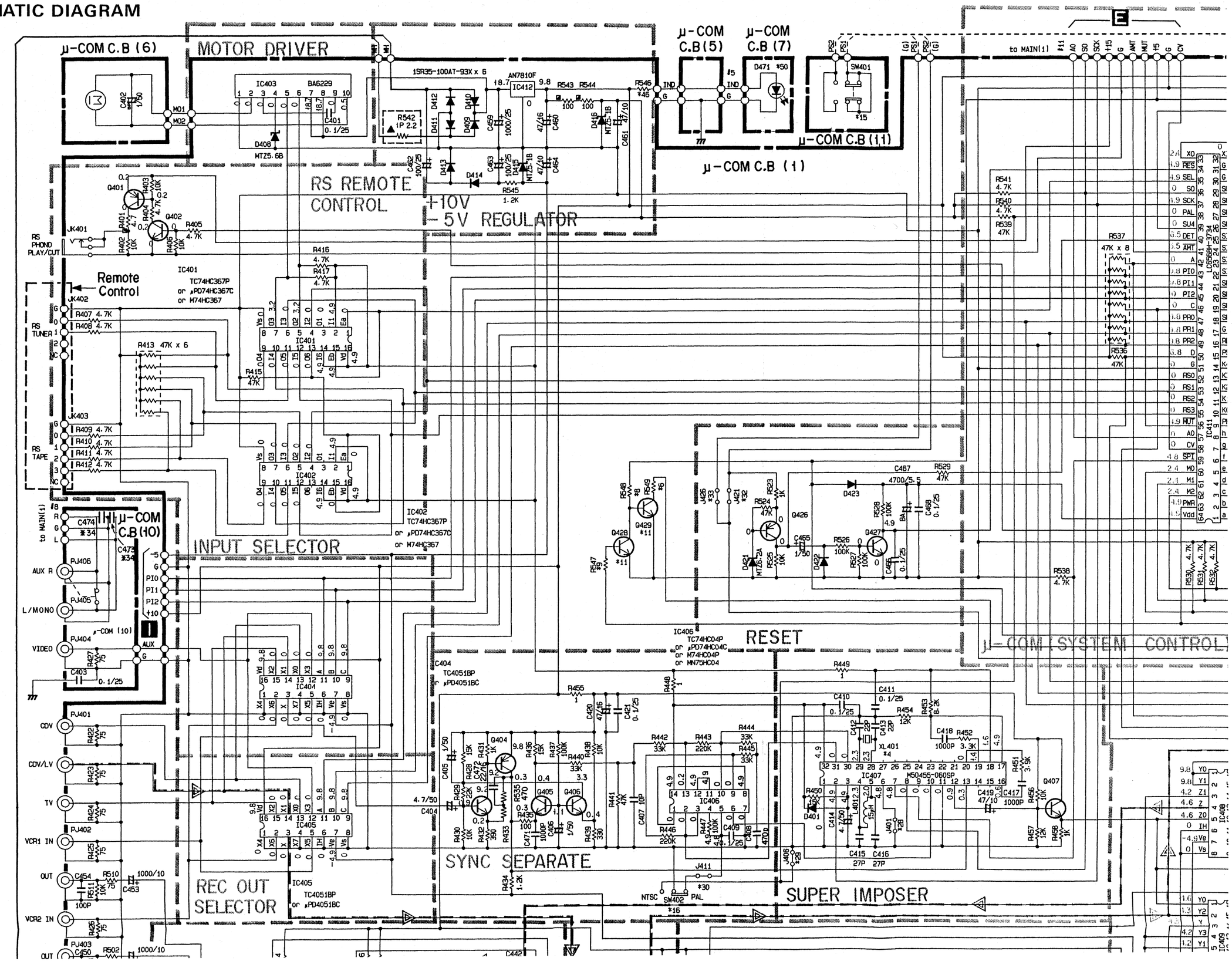
*		J	U	C	R	A, B	G
1	C103, 104	OPEN				→	100P
2	C121 ~ 154	OPEN				→	470P
3	C329, 330	OPEN				→	4700P
4	C331 ~ 334	OPEN				→	0.01
5	C105, 106	OPEN				→	Ⓟ 150P/100
6	L101, 102	OPEN				→	15μH
7	L103, 104	OPEN				→	220μH
8	R103, 104	47				→	OPEN
9	R105, 106	OPEN				→	47
10	R101, 102	OPEN				→	2.2K
11	R377, 378	OPEN				→	4.7
12	D121	4D4841	→	RB402	4D4841		→
13	J101, 102	○				→	X
14	C303, 304	10000/63	8200/63				→
15	R387, 388	2P 1.2K	→	2P 1K	2P 1.2K		→
16	SPEAKER TERMINAL	VF01840			→		VF82400
17	C430	680P				→	470P →
18	C456	OPEN			→	47/63	OPEN →
19	L404	15μH				→	10μH →
20	XL401	14.31818MHz				→	17.734475MHz →
21	T401	XA752	XA754		→	XA753	XE938 → XE585
22	R549	OPEN				→	2.2K →
23	R518, 519	OPEN			→	4.7K	OPEN →
24	R548	OPEN				→	10K →
25	R547	OPEN				→	100K →
26	Q423	OPEN			→	○	OPEN →
27	Q428, 429	OPEN				→	○ →
28	Q422	OPEN			→	○	OPEN →
29	D418	OPEN			→	MTZ12B	OPEN →
30	D470	OPEN				→	LD-101VR
31	SW401	KA80455				→	KA80447
32	SW402	OPEN			→	○	OPEN →
33	C8404	X				→	○ →
34	C8407	○			→	X	→
35	F401	T5A 250V	5A 250V			→ T2.5A 250V	→
36	F403	OPEN				→	T2.5A 250V →
37	F402	OPEN			→	T3.5A 250V	OPEN →
38	TERMINAL	X				→ ○	→
39	FUSE HOLDER	○				→ X	→
40	FUSE HOLDER	X				→ ○	→
41	FUSE HOLDER	X			→	○ X	→
42	FUSE HOLDER	X				→	○ →
43	AC OUTLET	○				→ X	→
44	J401	X				→ ○	→
45	J406	○			→	X	→
46	J411	X			→	○ X	→
47	J416	○			→	X ○	X →
48	J421	○				→	X →
49	J426, 427	X				→	○ →
50	TERMINAL	X			→	○ X	→
51	TERMINAL	X			→	○ X	→
52	C37, 38	OPEN				→	0.01
53	C35, 36	OPEN				→	4700P
54	SCREW TERMINAL	X				→	○

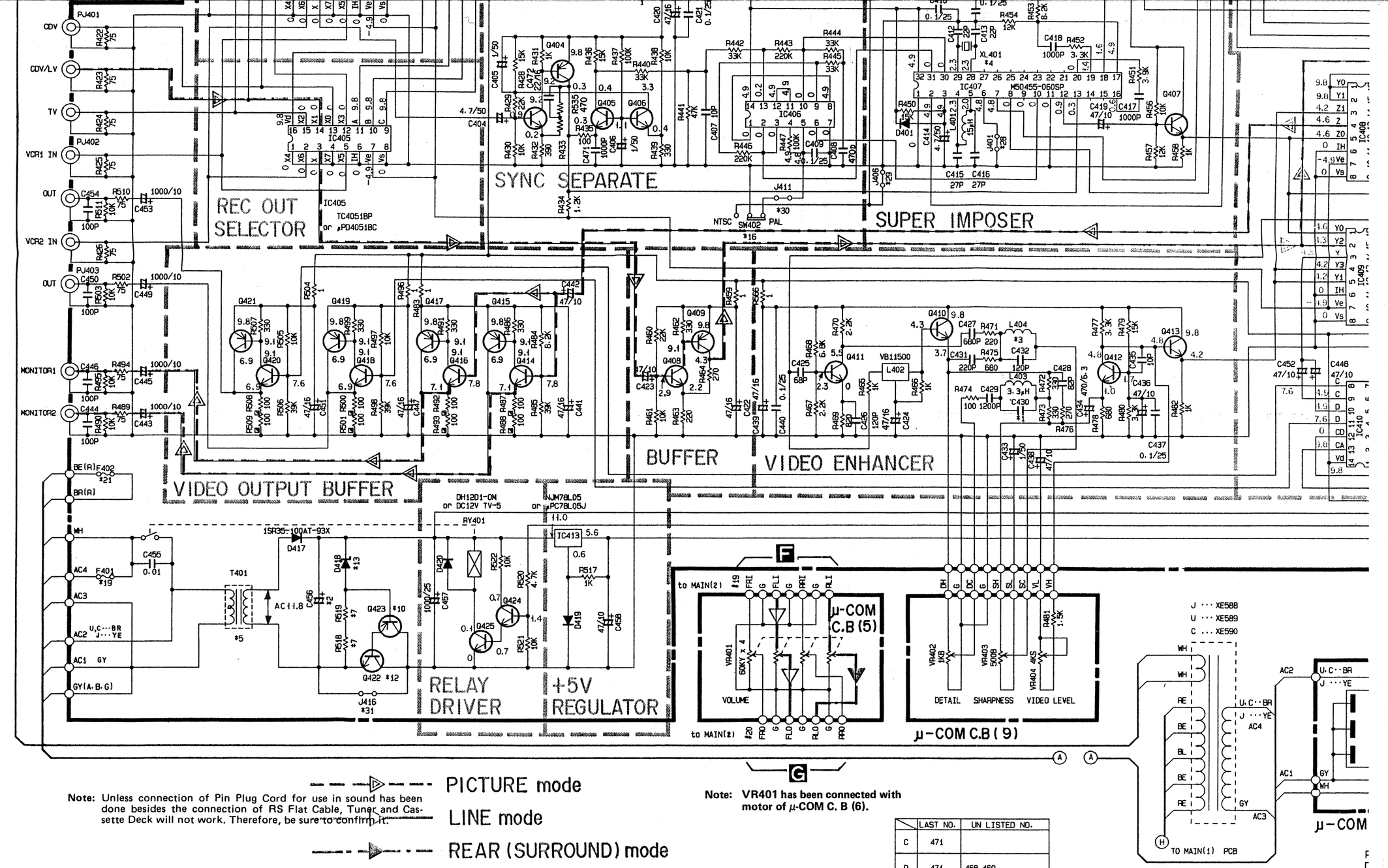
AVX-100/U

■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面：Component Side



■ SCHEMATIC DIAGRAM





PICTURE mode

LINE mode

REAR (SURROUND) mode

Note: Unless connection of Pin Plug Cord for use in sound has been done besides the connection of RS Flat Cable, Tuner and Cassette Deck will not work. Therefore, be sure to confirm it.

Note: VR401 has been connected with motor of μ-COM C. B (6).

Unless otherwise specified /TRANSISTOR

Q404, 409, 415, 417 419, 421, 423, 426	2SA1015(Y)
Q401	2SB1185 or 2SB1274
Q402, 407, 410, 413 424, 425, 427~429	2SC1740S(S, R) or 2SC2603(E, F) or 2SC3312(R, S, T)
Q403, 405, 406, 408, 411 412, 414, 416, 418, 420	2SC535(A, B, C)
Q422	2SD716(R, O)

Unless otherwise specified /DIODE

D401~407, 419, 420 422~431	1SS133
D464, 465	SLR-55URC3H
D448~463, 466, 467	SLR-34URC3H3
D442~447	SLR-34MC3H3

Unless otherwise specified /SWITCH

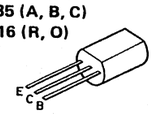
SW403~437	5MEVG-QRB-04M or KHH-MA901

*	BLACK	TITAN
41. R558~564	1	68
42. R565	330	180
43. D432~441	SLR-34URC3H3	SLR-34YC3H3
44. D468	GL6P228	GL6H228
45. D469	GL6P229	GL6H229
46. R546	1.8K	680
50. D471	SLB-15VW3F	SLB-15YY

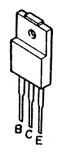
	LAST NO.	UN LISTED NO.
C	471	
D	471	468, 469
IC	416	412, 413
L	404	402
Q	429	
R	535	414, 418~421, 535,

NOTICE
(U)····· U.S.A model
(C)····· Canadian model
(A)····· Australian model
(G)····· European model
(B)····· British model
(R)····· General model

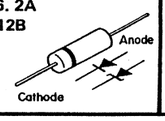
2SA1015 (Y)
2SC1740S (S, R)
2SC2603 (E, F)
2SC3312 (R, S, T)
2SC535 (A, B, C)
2SD716 (R, O)



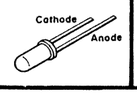
2SB1185
2SB1274



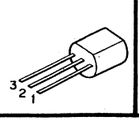
1SS133
1SR35-100AT-93X
MTZ5.1B
MTZ5.6B
MTZ6.2A
MTZ12B



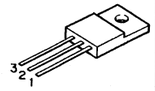
SLR-55URC3H
SLR-34URC3H3
SLR-34YC3H3
SLR-34MC3H3
LD-101VR



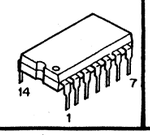
NJM78L05
μPC78L05J



AN7810F

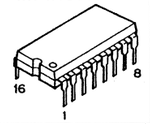


TC4066BP
LC4066
MN4066B
TC74HC04P
μPD74HC04C
M74HC04P
MN74HC04

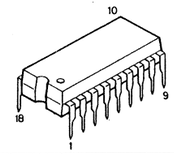


TC4051BP
μPD4051BC
TC4052BP
μPD4052BC
TC4053BP
μPD4053BC
BU4053B
MN4053B
μPD74HC238C

TC74HC238P
TC74HC367P
μ74HC367C
M74HC367



M54584P
M54562



BA

G H I J K L M N

E H

μ-COM C.B(8)

U401
GP1U521A

XL402
4MHz

LC656BH-3734

IC411
M50455-060SP

μ-COM (SYSTEM CONTROL)

VIDEO SELECTOR

IC408
TC4053BP
or μPD4053BC
or BU4053B
or MN4053B

IC409
TC4052BP
or μPD4052BC

μ-COM C.B(2)

IC414
TC74HC238P
or μPD74HC238C

SW414 INPUT UP
SW415 INPUT DN
SW416 PICT. UP
SW417 PICT. DN
SW403 PHONO
SW430 REAR UP
SW404 TUNER
SW431 REAR DN
SW405 TAPE1
SW432 MONITOR
SW406 TAPE2
SW433 REC OUT
SW407 CD/CDV
SW423 CD/CDV
SW408 CDV/LV
SW424 CDV/LV
SW409 TV
SW425 TV
SW410 VCR1
SW426 VCR1
SW411 VCR2
SW427 VCR2
SW412 AUX
SW428 AUX
SW413 OFF
SW429 OFF
SW422 4/8
SW434 DELAY UP
SW421 3/7
SW435 DELAY DN
SW420 2/6
SW419 1/5
SW418 1-4/5-8
SW436 ON/OFF

REC OUT SOUND
SURROUND
REC OUT PICTURE

μ-COM C.B(3)

IC415 M54584P
IC416 M54562

C470 0.1/25
C469 220/16
SW437

D431 D432 PHONO D433 TUNER D434 TAPE1 D435 TAPE2 D436 CD/CDV D437 CDV/LV D438 TV D439 VCR1 D440 VCR2 D441 AUX
D448 PHONO D449 TUNER D450 TAPE1 D451 TAPE2 D452 CD/CDV D453 CDV/LV D454 TV D455 VCR1 D456 VCR2 D457 AUX
D464 MUTING D465 TITLE EDIT D466 MONITOR D467 REC OUT D442 CD/CDV D458 CD/CDV D443 CDV/LV D459 CDV/LV D444 TV D460 TV D445 VCR1 D461 VCR1 D446 VCR2 D462 VCR2 D447 AUX D463 AUX

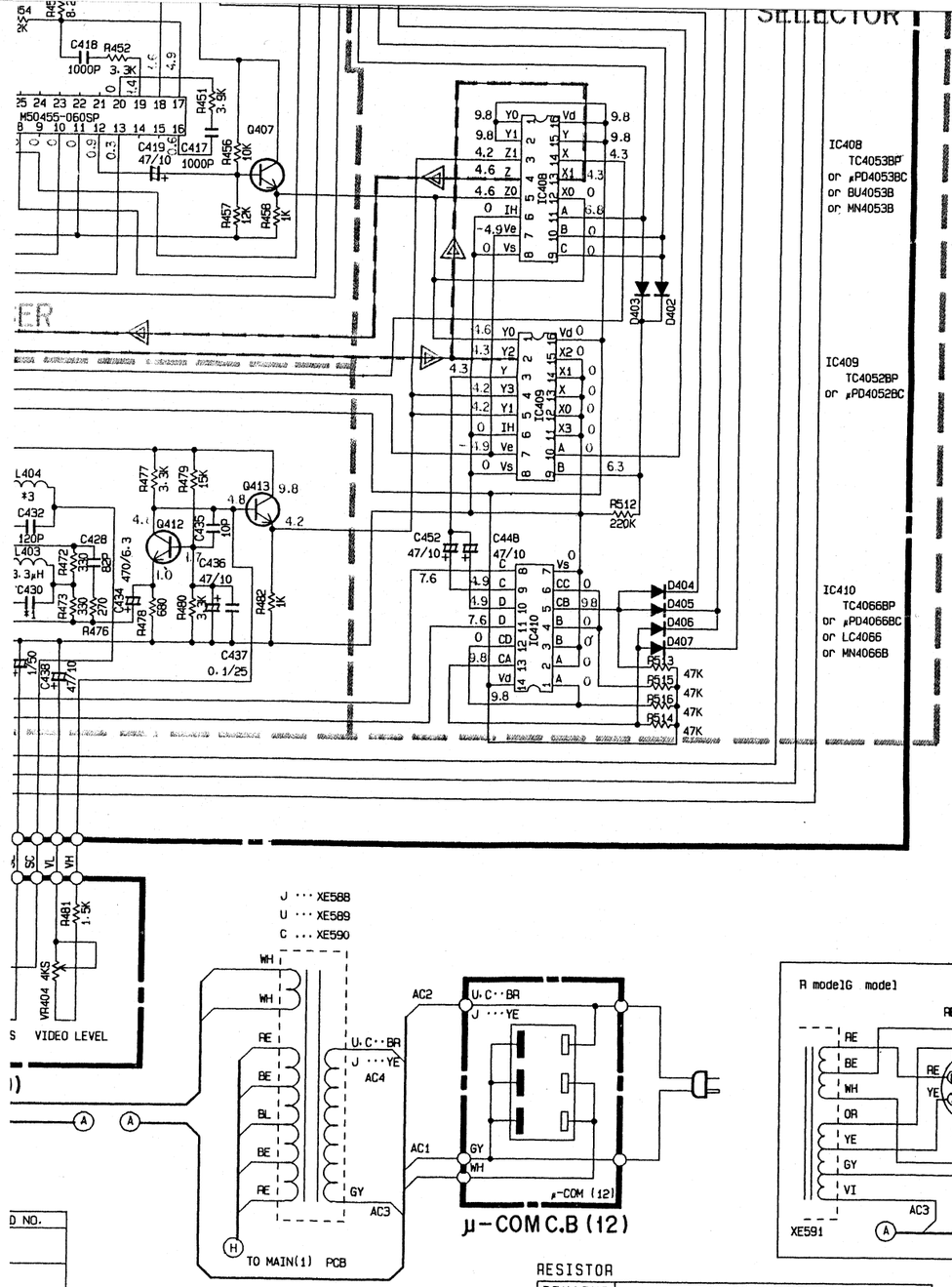
SOUND INPUT
SOUND REC OUT
PICT. INPUT
PICT. REC OUT

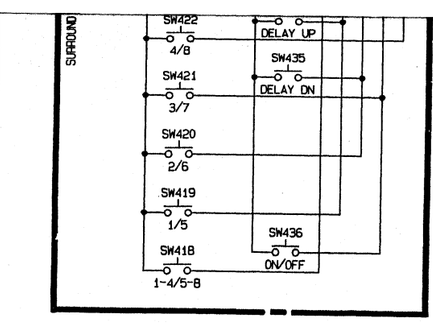
D468 DELAY TIME

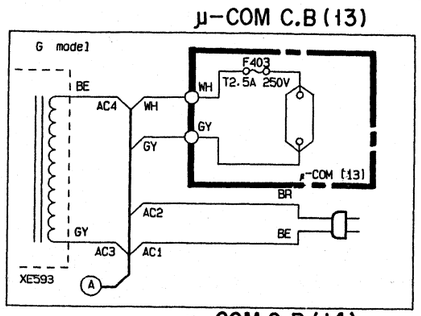
μ-COM C.B(13)

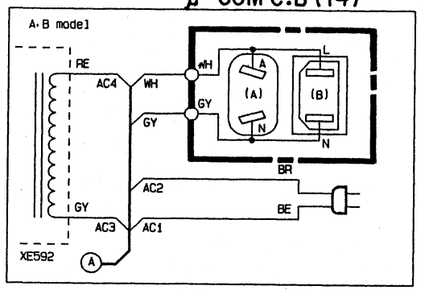
G model

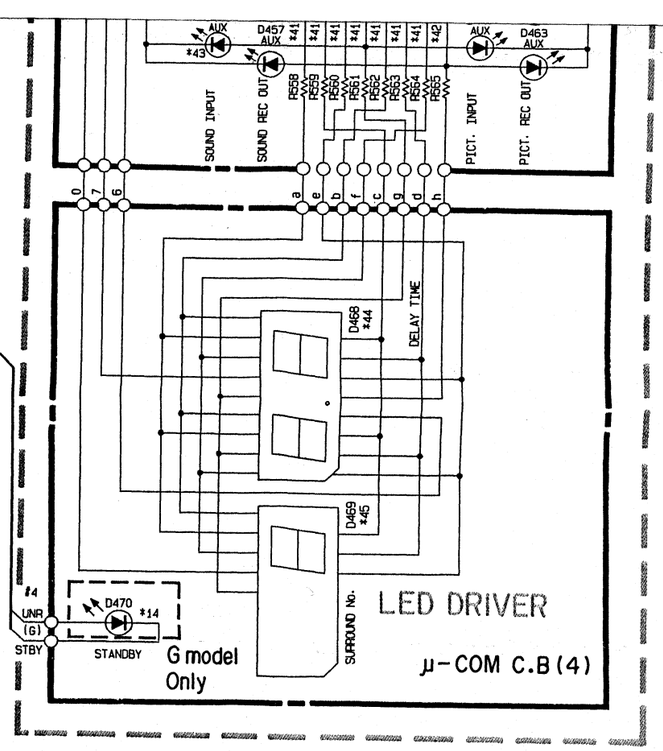
F403 T2.5A 250V











D NO.
535

NOTICE
(U)····· U.S.A model
(C)····· Canadian model
(A)····· Australian model
(G)····· European model
(B)····· British model
(R)····· General model

RESISTOR

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

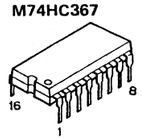
CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⋕
NO MARK	CERAMIC CAPACITOR	
◎	POLYESTEL FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	‖
Ⓘ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	

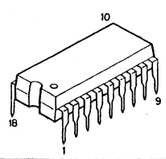
*	J	U·C	R	A·B	G
1. C430	680P	→	→	470P	→
2. C456	OPEN	→	47/63	OPEN	→
3. L404	15μH	→	→	10μH	→
4. XL401	14.31818MHz	→	→	17.734475MHz	→
5. T401	XA752	XA754	XA753	XE938	XE585
6. R549	OPEN	→	→	→	2.2K
7. R518·519	OPEN	→	4.7K	OPEN	→
8. R548	OPEN	→	→	→	10K
9. R547	OPEN	→	→	→	100K
10. Q423	OPEN	→	2SA1015(Y)	OPEN	→
11. Q428·429	OPEN	→	→	→ or or	2SC1740S(S·R) 2SC2603(E·F) 2SC3312(R·S·T)
12. Q422	OPEN	→	2SD716(R·O)	OPEN	→
13. D418	OPEN	→	MTZ12B	OPEN	→
14. D470	OPEN	→	→	→	LD-101VR
15. SW401	KAB0455	→	→	→	KAB0447
16. SW402	OPEN	→	JSA2220	OPEN	→
19. F401	T5A250V	5A250V	→	T2.5A250V	→
21. F402	OPEN	→	T3.5A250V	OPEN	→
28. J401	OPEN	→	→	SHORT	→
29. J406	SHORT	→	OPEN	→	→
30. J411	OPEN	→	SHORT	OPEN	→
31. J416	SHORT	→	OPEN	SHORT	→
32. J421	SHORT	→	→	→	OPEN
33. J426·427	OPEN	→	→	→	SHORT
34. C470,473	OPEN	→	→	→	470P

TC4051BP
μPD4051BC
TC4052BP
μPD4052BC
TC4053BP
μPD4053BC
BU4053B
MN4053B
μPD74HC238C

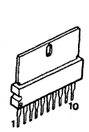
TC74HC238P
TC74HC367P
μ74HC367C
M74HC367



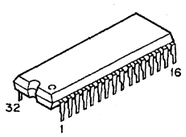
M54584P
M54562



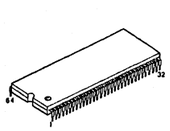
BA6229



M50455–060SP



LC6568H–3734



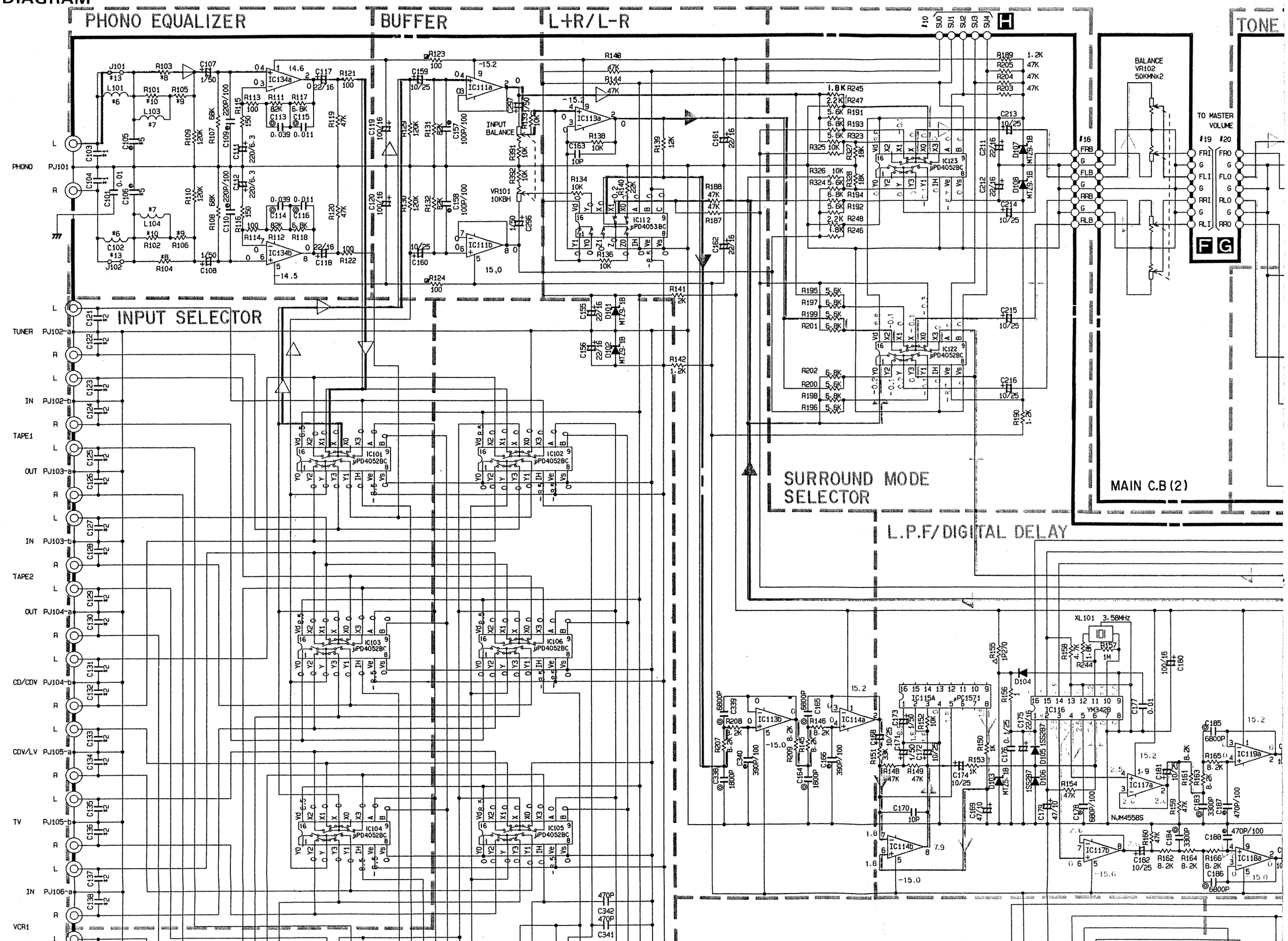
CAUTION

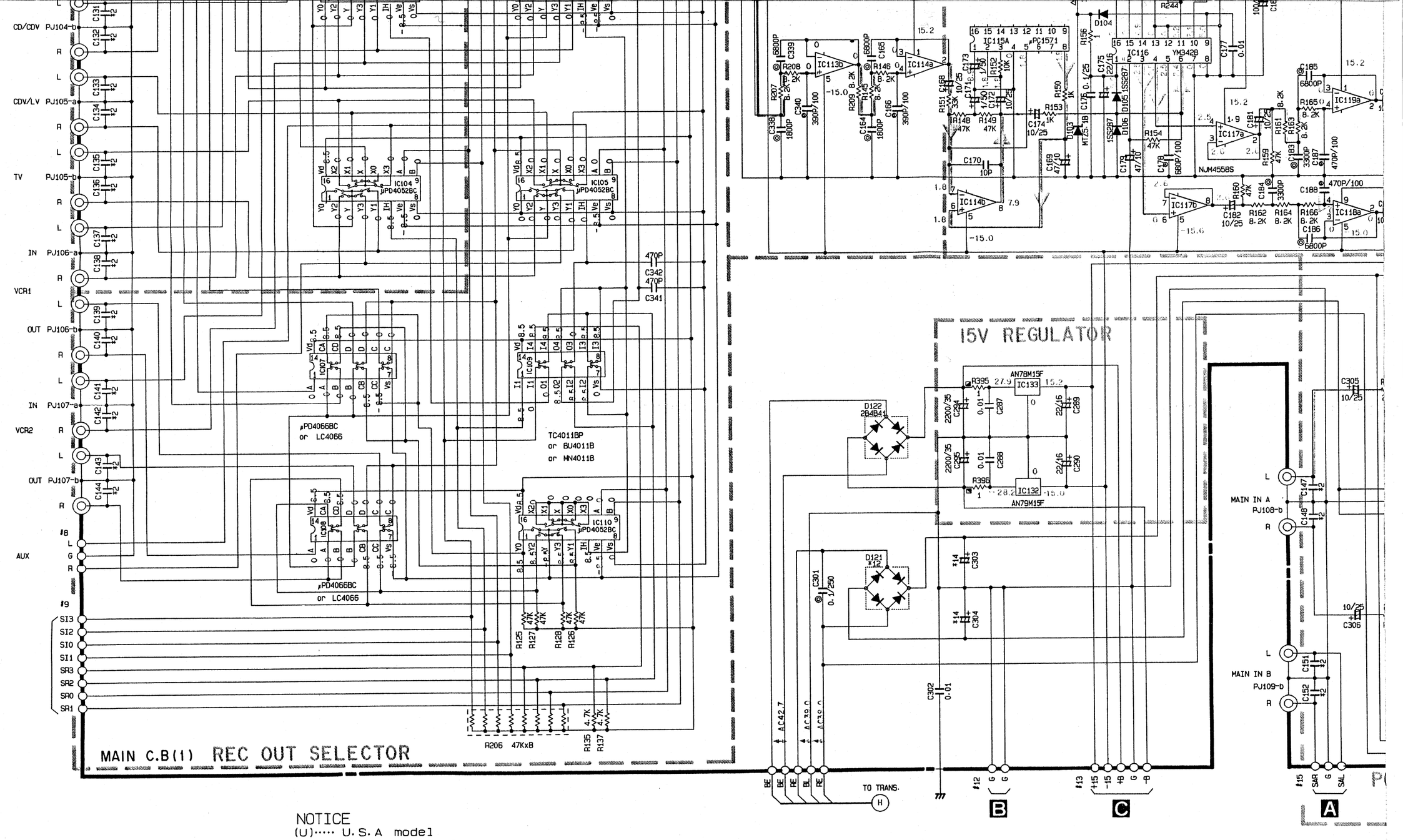
- Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

* All voltages are measured with a 10MΩ/V DC electric volt meter.
* Schematic diagram is subject to change without notice.

AVX-100/U

■ SCHEMATIC DIAGRAM





NOTICE
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(C)····· Canadian model
(A)····· Australian model
(G)····· European model
(B)····· British model
(R)····· General model

*	J	U	C	R.A.B	G
1. C103. 104	OPEN			→	100P
2. C121-154	OPEN			→	470P
3. C329. 330	OPEN			→	4700P
4. C331-334	OPEN			→	0.01
5. C105. 106	OPEN			→	150P/100
6. L101. 102	OPEN			→	15µH
7. L103. 104	OPEN			→	220µH
8. R103. 104	47			→	OPEN
9. R105. 106	OPEN			→	47
10. R101. 102	OPEN			→	2.2K
11. R377. 378	OPEN			→	4.7
12. D121	4D4B41	→	RB402	4D4B41	→
13. J101. 102	SHORT			→	OPEN
14 C303. 304	10000/63	8200/63			→
15 R387. 388	2P1.2K	→	2P1K	2P1.2K	→

Unless otherwise specified /DIODE. IC

D104. 110-113. 125	1SS133
IC111. 113. 114. 118. 119 125. 127. 128. 134	µPC4570HA

Unless otherwise specified /TRANSISTOR

Q117. 118. 135. 136. 151	2SA970(GR. BL)
Q131-134. 141. 142. 149 150. 152-155	2SC2240(GR. BL)
Q101-111. 113-116	2SC2878(A. B)
Q137. 138	2SA1145(O. Y)
Q143. 144	2SA1358
Q139. 140	2SC3421
Q147. 148	2SA1165(O. P. Y) or 2SB1362(P. S. Q)
Q145. 146	2SC1581(O. P. Y) or 2SD2053(P. S. Q)

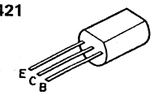
RESISTOR

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

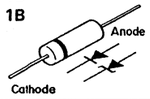
CAPACITOR

REMARKS	PARTS NAME	#
NO MARK	ELECTROLYTIC CAPACITOR	#
NO MARK	CERAMIC CAPACITOR	
◎	POLYESTEL FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
Ⓘ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	

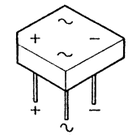
2SA970 (GR, BL)
2SC2240 (GR, BL)
2SC2878 (A, B)
2SA1145 (O, Y)
2SA1358
2SC3421



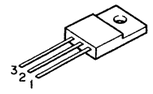
1SS133
1SS287
1SS146
MA185
MTZ5. 1B
MTZ9. 1B



4D4B41
RB402
2B4B41



AN78M15F
AN79M15F



G H I J K L M N

TONE CONTROL AMP. / BUFFER

MUTE

BALANCE VR102 50KMNx2

TO MASTER VOLUME

IC124 NJM2043S

BASS VR105 16KSx2

TREBLE VR103 20KSx2

MID VR104 20KSx2

BASS EXTENSION SW101

MAIN C.B (2)

REAR LEVEL CONTROL/ BUFFER

CENTER VR106 20KA

DIGITAL DELAY

L.P.F

DOLBY CENTER CHANNEL PROCESSOR

MUTE CONTROL

CENTER BUFFER / MUTE

HEAD PHONE AMP.

FRONT

REAR

NORMAL

ENHANCED CENTER

INVERT

CENTER BUFFER / MUTE

HEAD PHONE AMP.

MUTE

IDLING ADJUSTMENT

POWER AMP. A

PROTECT

LINE mode

REAR(SURROUND) mode

CENTER mode

NORMAL

ENHANCED CENTER

INVERT

PJ110

PHONES JACK

JK101

MAIN C.B(3)

SPEAKER A

MAIN IN A PJ108-b

MAIN IN B PJ109-b

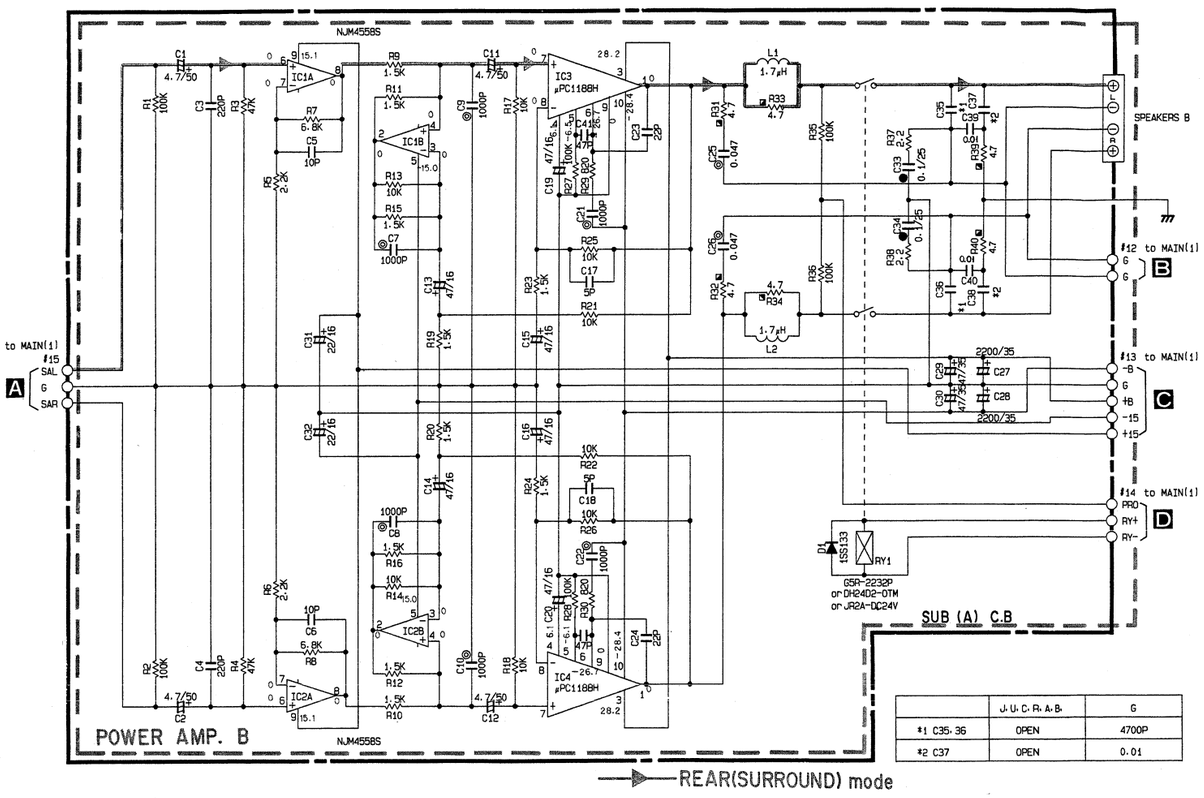
	LAST NO.	UN LISTED NO.
C	342	102, 167, 196, 269, 270, 299, 300,
D	125	114-120,
IC	134	132, 133,
Q	155	112, 118-130,
R	396	173, 249,

Anode / hode	4D4B41 RB402 2B4B41	AN78M15F AN79M15F	NJM4556S μPC4570HA NJM2043S NJM4558S	TC4011BP BU4011B MN4011B μPD4066BC LC4066	μPC1571 LA2730 YM3428 μPD4052BC μPD4053BC	LC7535

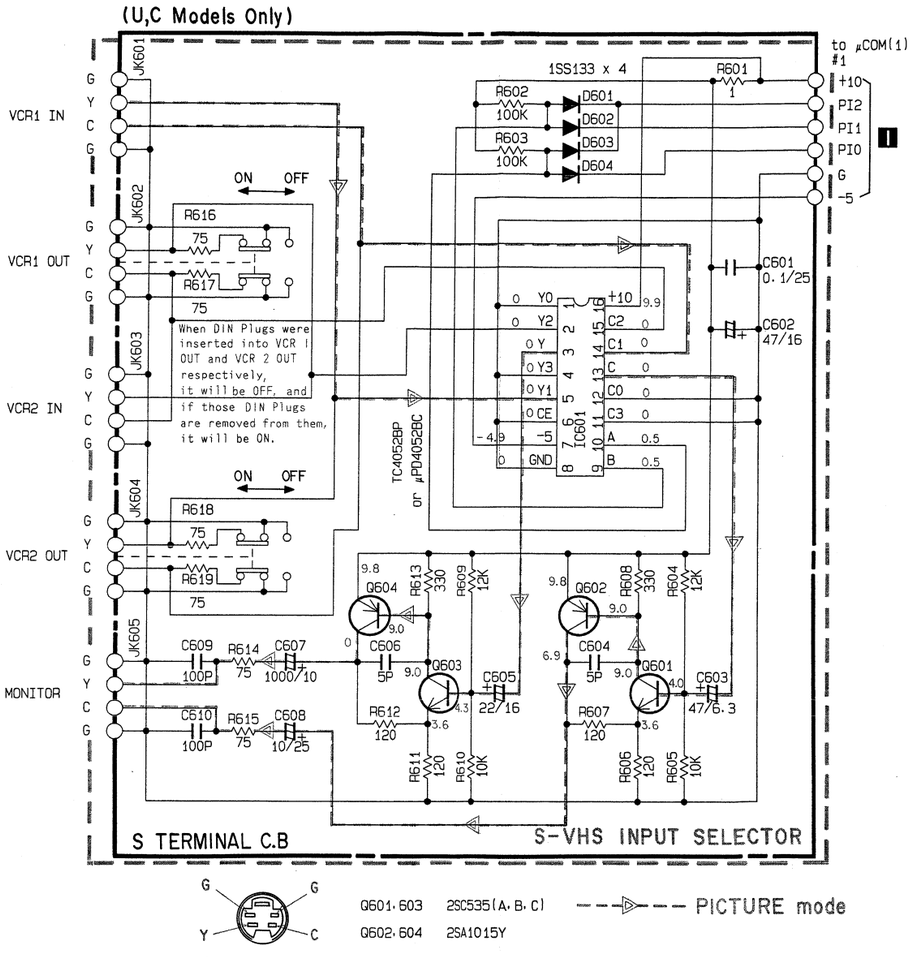
CAUTION

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

■ SCHEMATIC DIAGRAM



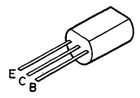
	J, U, C, R, A, B	G
*1 C35, 36	OPEN	4700P
*2 C37	OPEN	0.01



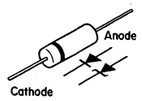
Q601, 603 2SC535 (A, B, C)
Q602, 604 2SA1015Y

PICTURE mode

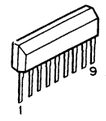
2SA1015 (Y)
2SC535 (A, B, C)



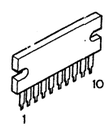
1SS133



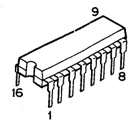
NJM4558S



μPC1188H



TC4052BP
μPD4052BC

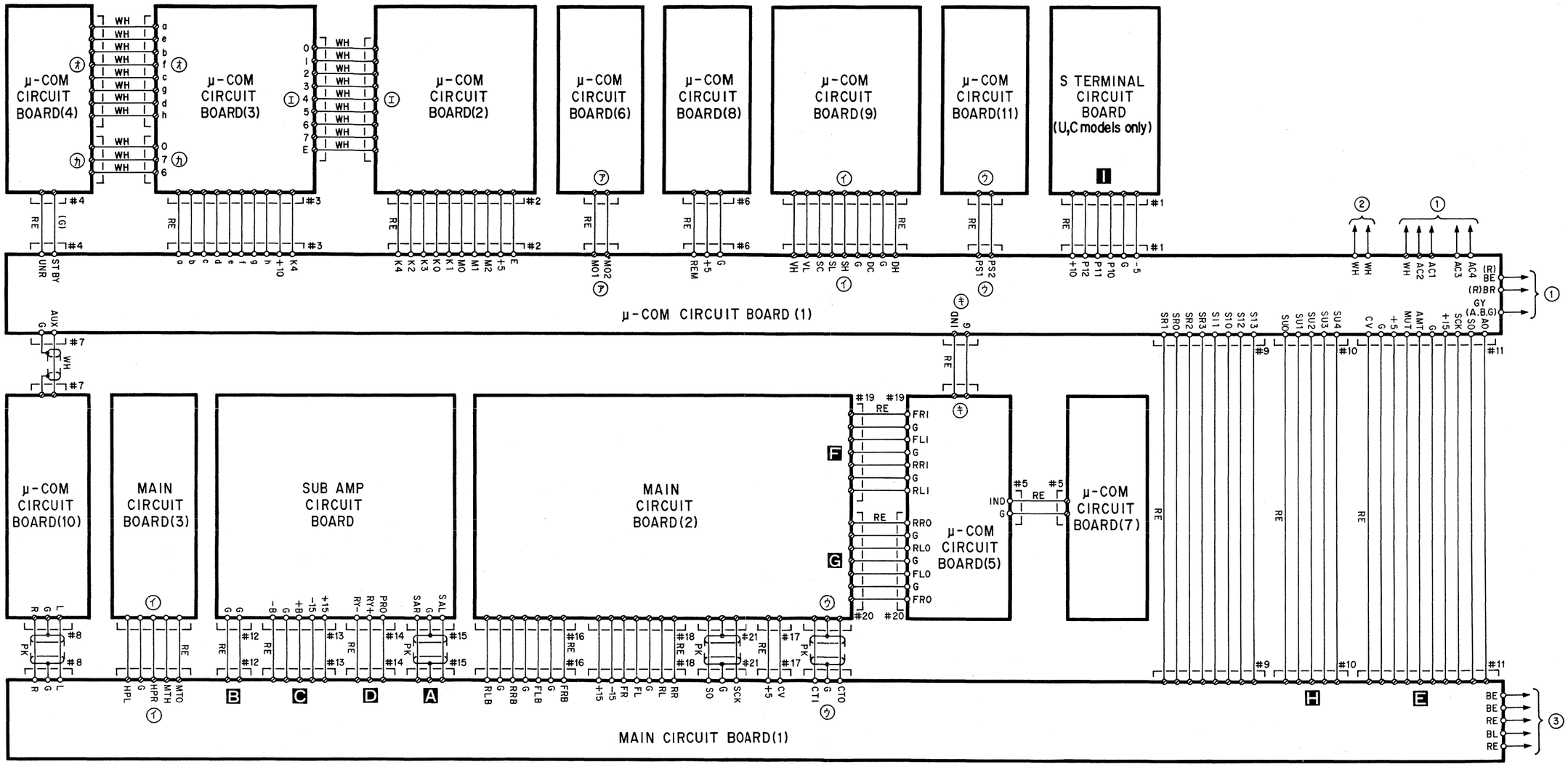


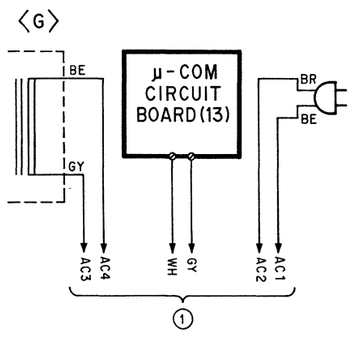
CAUTION

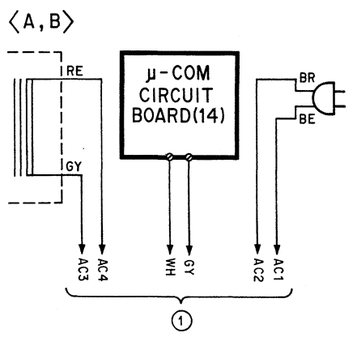
- Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

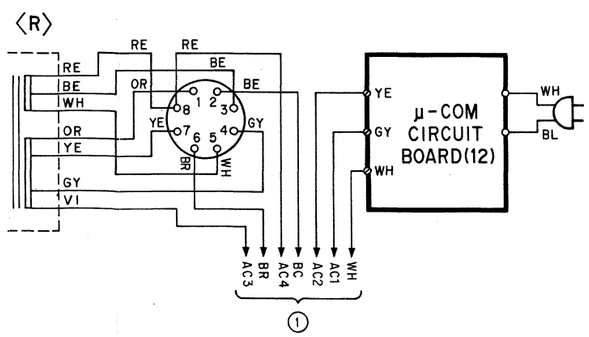
* All voltages are measured with a 10MΩ/V DC electric volt meter.
* Schematic diagram is subject to change without notice.

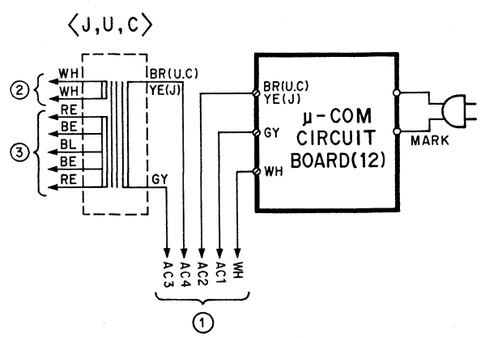
■ WIRING


μ-COM CIRCUIT BOARD(4)
μ-COM CIRCUIT BOARD(3)
μ-COM CIRCUIT BOARD(2)
μ-COM CIRCUIT BOARD(6)
μ-COM CIRCUIT BOARD(8)
μ-COM CIRCUIT BOARD(9)
μ-COM CIRCUIT BOARD(11)
S TERMINAL CIRCUIT BOARD (U,C models only)
μ-COM CIRCUIT BOARD (1)
μ-COM CIRCUIT BOARD(10)
MAIN CIRCUIT BOARD(3)
SUB AMP CIRCUIT BOARD
MAIN CIRCUIT BOARD(2)
μ-COM CIRCUIT BOARD(5)
μ-COM CIRCUIT BOARD(7)
MAIN CIRCUIT BOARD(1)


〈G〉
μ-COM CIRCUIT BOARD(13)


〈A,B〉
μ-COM CIRCUIT BOARD(14)


〈R〉
μ-COM CIRCUIT BOARD(12)


〈J,U,C〉
μ-COM CIRCUIT BOARD(12)
MARK

PARTS LIST

■ ELECTRICAL PARTS

- **WARNING**

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

- Carbon resistors 1/6 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to the last Page.

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
※		***NA 09 87 10***	***Sub Amp. Circuit Board***		サブアンプシート			J,U,C,R,A,B	
※		***NA 09 87 20***	//		//			G	
		FG 21 05 00	Ceramic Cap.	5pF 50V	セラコン	C17, 18			
		FG 21 11 00	//	10pF 50V	//	C5, 6			
		FG 21 12 20	//	22pF 50V	//	C23, 24			
		FG 21 14 70	//	47pF 50V	//	C41, 42			
		VA 76 21 00 / FZ 00 58 80	//	0.1μF 25V	積層セラコン	C33, 34			
		FA 15 31 00	Mylar Cap.	1000pF 50V	マイラーコン	C7～10, 21, 22			
		FG 21 34 70	Ceramic Cap.	4700pF 50V	セラコン	C35, 36		G	
		FG 24 41 00	//	0.01μF 50V	//	C37, 38		G	
		FG 24 41 00	//	0.01μF 50V	//	C39, 40			
		FA 15 44 70	Mylar Cap.	0.047μF 50V	マイラーコン	C25, 26			
		FG 21 22 20	Ceramic Cap.	220pF 50V	セラコン	C3, 4			
		UJ 13 72 20	Electrolytic Cap.	22μF 16V	ケミコン	C31, 32			
		UJ 13 74 70	//	47μF 16V	//	C13～16, 19, 20			
		UJ 15 74 70	//	47μF 35V	//	C29, 30			
		UJ 16 64 70	//	4.7μF 50V	//	C1, 2, 11, 12			
		UH 15 92 20	//	2200μF 35V	//	C27, 28			
		GD 90 04 70	Coil, Output	1.7μH	アウトプットコイル	L1, 2			
		HV 45 34 70	Flame Proof Carbon Resistor	4.7Ω 1/4W	不燃化カーボン抵抗	R31～34, 39, 40			
		iG 07 68 00	IC	NJM4558S	IC	IC1, 2			
		iG 10 27 00	//	μPC1188H	//	IC3, 4			
		iF 00 34 50	Diode	1SS133	ダイオード	D1			
		VC 27 86 00	Relay	G5R-2232P	リレー	RY1 (Inter-changeable)			
		KC 00 19 40	//	DH24D2-OTM	//	// (Inter-changeable)			
		KC 00 20 00	//	JR2A-DC24V	//	// (Inter-changeable)			
		LB 91 80 20	Base Pin, XH	2P i-Type	XH ベースピン	CB1			
		LB 91 80 50	//	5P i-Type	//	CB4			
		VD 00 46 00	Base Pin, PH	3P	PH ベースピン	CB2, 3			
		LA 00 53 00	Terminal, Push	4P	プッシュターミナル				
		BB 07 13 60	Terminal, Screw		ネジ端子				
※		***NA 09 86 10***	***Main Circuit Board***		メインシート			U,R,A,B	
※		***NA 09 86 20***	//		//			C	
※		***NA 09 86 30***	//		//			G	
※		***NA 09 86 40***	//		//			J	
		FG 21 11 00	Ceramic Cap.	10pF 50V	セラコン	C163, 170, 193, 194			
		FG 21 13 30	//	33pF 50V	//	C286			
		FG 21 14 70	//	47pF 50V	//	C257, 258			
		FG 21 21 00	//	100pF 50V	//	C103, 104		G	
		FG 21 22 20	//	220pF 50V	//	C241, 242, 253, 254			
		FG 21 24 70	//	470pF 50V	//	C341, 342			

※New Parts（新規部品）

Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
	FG 21 24 70	Ceramic Cap.	470pF 50V	セラコン	C121～154		G	
	FG 24 41 00	//	0.01μF 50V	//	C101,177,273,274,302			
	FU 35 08 00	FE Mica Cap.	8pF 500V	FE マイカコン	C319,320			
	FU 35 13 30	//	33pF 500V	//	C317,318			
	FZ 00 46 60	MM Cap.	0.1μF 250V	MMコン	C301			
	VA 76 21 00 / FZ 00 58 80	Ceramic Cap.	0.1μF 25V	積層セラコン	C176,298			
	FA 15 31 20	Mylar Cap.	1200pF 50V	マイラーコン	C282			
	FA 15 31 80	//	1800pF 50V	//	C164,338			
	FA 15 32 70	//	2700pF 50V	//	C263,264			
	FA 15 33 30	//	3300pF 50V	//	C183,184			
	FA 15 34 70	//	4700pF 50V	//	C201			
	FA 15 34 70	//	4700pF 50V	//	C329,330		G	
	FA 15 35 60	//	5600pF 50V	//	C204			
	FA 15 36 80	//	6800pF 50V	//	C165,185,186,283,339			
	FA 15 41 00	//	0.01μF 50V	//	C279,280,287,288,293			
	FA 15 41 00	//	0.01μF 50V	//	C331～334		G	
	FA 15 41 10	//	0.011μF 50V	//	C115,116			
	FA 15 42 70	//	0.027μF 50V	//	C205,261,262			
	FA 15 42 20	//	0.022μF 50V	//	C231,232			
	FA 15 43 30	//	0.033μF 50V	//	C200			
	FA 15 43 90	//	0.039μF 50V	//	C113,114			
	FA 15 44 70	//	0.047μF 50V	//	C327,328			
	FA 15 51 00	//	0.1μF 50V	//	C217～220,227,228			
	UT 45 21 00	Polypropylene Film Cap.	100pF 100V	ポリプロコン	C157,158,223,224,307,308			
	UT 45 21 50	//	150pF 100V	//	C105,106		G	
	UT 45 22 20	//	220pF 100V	//	C109,110			
	UT 45 23 90	//	390pF 100V	//	C166,340			
	UT 45 24 70	//	470pF 100V	//	C187,188			
	UT 45 26 80	//	680pF 100V	//	C178			
	UT 45 31 50	//	1500pF 100V	//	C315,316			
	UJ 11 82 20	Electrolytic Cap.	220μF 6.3V	ケミコン	C111,112			
	UJ 11 83 30	//	330μF 6.3V	//	C269,270			
	UJ 11 84 70	//	470μF 6.3V	//	C291			
	UJ 12 74 70	//	47μF 10V	//	C169,179,191,192,255,256,265,266,292,309,310,336,337			
	UJ 13 72 20	//	22μF 16V	//	C117,118,155,156,161,162,175,203,207,211,212,225,226,239,240,259,260,289,290,343			
	UJ 13 81 00	//	100μF 16V	//	C119,120,180,206			
	UJ 14 71 00	//	10μF 25V	//	C168,172,174,181,182,189,190,213～216,233,234,243,244,249～252			
	UJ 14 71 00	//	10μF 25V	//	C275,276,278,281,284,285,305,306			
	UJ 15 71 00	//	10μF 35V	//	C311,312			
	UJ 16 51 00	//	0.1μF 50V	//	C198			
	UJ 16 53 30	//	0.33μF 50V	//	C199			
	UJ 16 54 70	//	0.47μF 50V	//	C229,230,247,248,271,272,277			
	UJ 16 61 00	//	1μF 50V	//	C107,108,171,173,197,202,208,209,221,222,237,238,267,268,296,297,321,322,326			
	UJ 16 62 20	//	2.2μF 50V	//	C195,210,245,246			
	VE 01 83 00	Electrolytic Cap.(Duorex)	10μF 25V	//	C159,160			
※	VF 80 71 00	Electrolytic Cap,	100μF 35V	ブラックゲートコン	C323,324			
	FM 11 61 00	//	1μF 50V	BP ケミコン	C335			
	UM 04 91 00	// (Muse)	1000μF 16V	ケミコン	C235,236			
	UJ 15 92 20	//	2200μF 35V	//	C294,295			
※	VF 80 72 00	//	470μF 63V	//	C325			
	VC 42 66 00	//	8200μF 63V	ブロックケミコン	C303,304		U,C,R,A,B,G	
※	VF 80 73 00	//	10000μF 63V	//	//		J	

※New Parts (新規部品)

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
		VA 98 35 00	Coil	15μH	コイル	L101, 102			
		VA 98 36 00	〃	220μH	〃	L103, 104			
		GE 90 18 60	〃	47mH	固定コイル	L105, 106			
		GD 90 04 70	Coil, Output	1.7μH	アウトプットコイル	L107, 108			
※		VF 07 10 00	Ceramic Resonator	3.58MHz	セラミック振動子	XL101			
※		VF 06 66 00	Resistor Array	47kΩ×8	抵抗アレー	R206			
		HL 31 52 70	Metal Oxide Film Resistor	270Ω 1W	酸金抵抗	R155			
		HL 32 61 20	〃	1.2kΩ 2W	〃	R387, 388		J,U,R,A,B,G	
		HL 32 61 00	〃	1kΩ 2W	〃	〃		C	
		HL 93 22 20	〃	0.22Ω 3W	〃	R361～364			
		HV 45 31 00	Flame Proof Carbon Resistor	1Ω 1/4W	不燃化カーボン抵抗	R390, 395, 396			
		HV 45 32 20	〃	2.2Ω 1/4W	〃	R393, 394			
		HV 45 34 70	〃	4.7Ω 1/4W	〃	R373～376			
		HV 45 34 70	〃	4.7Ω 1/4W	〃	R377, 378		G	
		HV 45 42 20	〃	22Ω 1/4W	〃	R330			
		HV 45 51 00	〃	100Ω 1/4W	〃	R123,124,397			
		HV 45 53 30	〃	330Ω 1/4W	〃	R355, 356			
		HV 45 55 60	〃	560Ω 1/4W	〃	R351, 352			
		HV 45 54 70	〃	470Ω 1/4W	〃	R341, 342			
		HV 45 61 00	〃	1kΩ 1/4W	〃	R365, 366			
		HV 45 61 80	〃	1.8kΩ 1/4W	〃	R353, 354			
		HV 45 64 70	〃	4.7kΩ 1/4W	〃	R367, 368			
		HV 45 65 60	〃	5.6kΩ 1/4W	〃	R357～360			
		HV 45 71 00	〃	10kΩ 1/4W	〃	R389			
		VB 86 09 00	Pre-set Potentiometer	B330Ω	半固定抵抗器	VR107, 108			
※		VE 37 41 00	Potentiometer	BH10kΩ	可変抵抗器	VR101			
※		VF 06 76 00	〃	A20kΩ	〃	VR106			
※		VF 06 80 00	〃	50kΩ MN×2	〃	VR102			
※		VF 06 78 00	〃	20kΩ 特×2	〃	VR103, 104			
※		VF 06 77 00	〃	16kΩ 特×2	〃	VR105			
		iA 09 70 00	Transistor	2SA970(GR, BL)	トランジスター	Q117, 118, 135, 136,151			
		iC 22 40 00	〃	2SC2240(GR, BL)	〃	Q131～134, 141, 142, 149, 150, 152～155			
		iC 28 78 20	〃	2SC2878(A, B)	〃	Q101～111, 113～116			
		iA 11 45 00	〃	2SA1145(O, Y)	〃	Q137, 138			
		iX 60 85 10	〃	2SA1358	〃	Q143, 144 } pair			
		iX 60 85 20	〃	2SC3421	〃	Q139, 140 }			
		iG 07 74 00	IC	NJM4556S	IC	IC129			
		XB 24 70 01	〃	μPC4570HA	〃	IC111, 113, 114, 118, 119, 125, 127, 128, 134			
※		XE 38 70 01	〃	μPC1571	〃	IC115, 120, 130			
		XD 38 60 01	〃	LA2730	〃	IC121			
※		XE 53 60 01	〃	LC7535	〃	IC126			
※		XE 81 70 01	〃	YM3428	〃	IC116			
		iG 08 02 00	〃	NJM2043S	〃	IC124			
		iG 07 68 00	〃	NJM4558S	〃	IC117, 131			
		XB 46 60 01	〃	AN78M15F	〃	IC133			
		XB 46 70 01	〃	AN79M15F	〃	IC132			
		iG 00 12 40	〃	TC4011BP	〃	IC109			

※New Parts（新規部品）

	Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
		XA 07 00 01	IC	μPD4052BC	I C	IC101～106,110,122,123		
		iG 10 59 00	//	μPD4053BC	//	IC112		
		iG 06 16 00	//	μPD4066BC	//	IC107, 108 } Inter-changeable		
		iG 08 92 00	//	LC4066	//	// }		
		iF 00 34 50	Diode	ISS133	ダイオード	D104, 110～113, 125		
		VB 44 40 00	//	ISS287	//	D105, 106		
		VC 39 83 00	//	ISS146	//	D123, 124 } Inter-changeable		
		VC 39 84 00	//	MA185	//	// }		
		iF 01 06 90	Zener Diode	MTZ5, 1B	ツェナーダイオード	D103, 109		
		iF 01 08 60	//	MTZ9, 1B	//	D101, 102, 107, 108		
		iH 00 11 60	Diode, Bridge	4D4B41	ダイオードブリッジ	D121	J,U,R,A,B,G	
		iH 00 10 40	//	RB402	//	//	C	
		iH 00 09 90	//	2B4B41	//	D122		
		KA 80 51 70	Switch, Push	NS4-2	プッシュスイッチ	SW101		
		VC 27 86 00	Relay	G5R-2232P	リレー	RY101 } Inter-changeable		
		KC 00 19 40	//	DH24D2-OTM	//	// }		
		KC 00 20 00	//	JR2A-DC24V	//	// }		
		LB 20 22 70	Pin Jack	2P	ピンジャック	PJ110		
		LB 20 23 50	//	2P	//	PJ101		
		LB 40 10 70	//	4P	//	PJ102～104,106,107,109		
※		LB 40 10 90	//	4P	//	PJ105, 108		
※		VF 22 79 00	Head Phone Jack		ヘッドホンジャック	JK101		
		VD 00 46 00	Base Pin, PH	3P	PH ベースピン	CB101, 105		
		VD 00 45 00	//	2P	//	CB102		
		VD 00 50 00	//	7P	//	CB103, 104		
		LB 91 80 40	Base Pin, XH	4P i-Type	XH ベースピン	CB106		
※		VF 01 84 00	Terminal, Speaker	4P	スピーカーターミナル		J,U,C,R,A,B	
※		VF 82 40 00	//	4P	//		G	
		LA 00 23 40	Wrapping Terminal	5P P=7.5 i-Type	ラッピング端子板			
		BB 06 62 90	Ground Washer		アースワッシャー			
※		***NA 09 86 50***	***Micro Computor Circuit Board***		マイコンシート	Black	J	
※		***NA 09 86 60***	//		//	Black	U, C	
※		***NA 09 86 70***	//		//	Black	R	
※		***NA 09 86 80***	//		//	Black	A, B	
※		***NA 09 86 90***	//		//	Black	G	
※		***NA 09 87 00***	//		//	Titan	J	
		FG 21 11 00	Ceramic Cap.	10pF 50V	セラコン	C407, 435		
		FG 21 12 20	//	22pF 50V	//	C412, 413		
		FG 21 12 70	//	27pF 50V	//	C415, 416		
		FG 21 18 20	//	82pF 50V	//	C428		
		FG 21 16 80	//	68pF 50V	//	C425		

※New Parts（新規部品）

Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
	FG 21 21 00	Ceramic Cap.	100pF 50V	セラコン	C444, 446, 450, 454			
	FG 21 21 20	//	120pF 50V	//	C426, 432			
	FG 21 22 20	//	220pF 50V	//	C431			
	FG 21 24 70	//	470pF 50V	//	C430		A,B,G	
	FG 21 26 80	//	680pF 50V	//	//		J,U,C,R	
	FG 21 24 70	//	470pF 50V	//	C473,474		G	
	FG 21 26 80	//	680pF 50V	//	C427			
	FG 21 31 00	//	1000pF 50V	//	C417, 418, 471			
	FG 71 31 20	//	1200pF 50V	//	C429			
	Fi 41 41 00	//	0.01μF VA-1	//	C455 } Inter-			
	Fi 51 41 00	//	0.01μF DNS	//	// } changeable			
	UT 65 24 70	//	470pF 100V	//	C408			
	VA 76 21 00	//	0.1μF 25V	積層セラコン	C401, 403, 409~411, 421, 437, 440, 466, 468, 470			
	UJ 11 84 70	Electrorytic Cap.	470μF 6.3V	ケミコン	C434			
	UJ 12 74 70	//	47μF 10V	//	C419, 423, 438, 442, 448, 452, 458, 461, 464			
	UJ 13 72 20	//	22μF 16V	//	C472			
	UJ 13 74 70	//	47μF 16V	//	C420,422,424,439,441,447,451,460			
	UJ 13 82 20	//	220μF 16V	//	C469			
	UJ 14 81 00	//	100μF 25V	//	C462, 463			
	UJ 16 61 00	//	1μF 50V	//	C405, 406, 433, 436, 465			
	UJ 16 64 70	//	4.7μF 50V	//	C404, 414			
	UW 67 74 70	//	47μF 63V	//	C456			
	UJ 12 91 00	//	1000μF 10V	//	C443, 445, 449, 453			
	UJ 14 91 00	//	1000μF 25V	//	C457, 459			
	VB 17 01 00	//	4700μF 5.5V	バックアップケミコン	C467			
	FM 11 61 00	//	1μF 50V	BP ケミコン	C402			
	VB 11 50 00	Delay Line	200nS	ディレイライン	L402			
	VB 11 56 00	Coil	15μH	固定コイル	L401			
	VB 11 56 00	//	15μH	//	L404		J,U,C,R	
	VB 10 02 00	//	10μH	//	//		A,B,G	
	VE 92 52 00	//	3.3μH	//	L403			
	VB 75 91 00	Ceramic Resonator	4MHz	セラミック振動子	XL402			
	VD 98 09 00	Quartz Crystal	14.31818MHz	水晶振動子	XL401		J,U,C,R	
※	VF 06 68 00	//	17.734475MHz	//	//		A,B,G	
	XA 75 20 01	Power Transformer		電源トランス			J	
	XA 75 40 01	//		//			U,C	
	XA 75 30 01	//		//			R	
※	XE 93 80 01	//		//			A,B	
	XE 58 50 01	//		//			G	
	HL 31 32 20	Metal Oxide Film Resistor	2.2Ω 1W	酸金抵抗	R542		J,U,C,R	
	HL 31 31 00	//	1Ω 1W	//	//		A,B.G	
	HV 45 34 70	Flame Proof Carbon Resistor	4.7Ω 1/4W	不燃化カーボン抵抗	R401			
	HV 45 51 00	//	100Ω 1/4W	//	R487, 488, 492, 493, 500, 501, 508 509, 543, 544			
	VE 47 84 00	Resistor Array	47kΩ×6	抵抗アレー	R413, 534			
※	VF 06 66 00	//	47kΩ×8	//	R537			
	VB 59 40 00	//	4.7kΩ×8	//	R533			
※	VF 06 81 00	Potentiometer with Motor	Y60kΩ×4	モーター付可変抵抗器	VR401			
※	VF 06 70 00	Potentiometer	B500Ω	可変抵抗器	VR403			

※New Parts (新規部品)

	Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
※		VF 06 73 00	Potentiometer	B1kΩ	可変抵抗器	VR402			
※		VF 06 75 00	//	4kΩ特	//	VR404			
		iA 10 15 21	Transistor	2SA1015(Y)	トランジスター	Q404,409,415,417,419,421,426		
		iA 10 15 21	//	2SA1015(Y)	//	Q423		R	
		VC 61 40 00	//	2SB1274(Q,R,S)	//	Q401			
		iC 17 40 70	//	2SC1740S(S, R)	//	Q402,407,410,413,424,425,427 } Inter-changeable			
		iC 26 03 10	//	2SC2603(E, F)	//	//			
		iC 33 12 00	//	2SC3312(R,S,T)	//	//			
		iC 17 40 70	//	2SC1740S(S, R)	//	Q428,429 } Inter-changeable		G	
		iC 26 03 10	//	2SC2603(E, F)	//	//		G	
		iC 33 12 00	//	2SC3312(R,S,T)	//	//		G	
		iC 05 35 40	//	2SC535(A, B, C)	//	Q403,405,406,408,411,412,414,416,418,420			
		iD 07 16 10	//	2SD716(R, O)	//	Q422		R	
		iF 00 34 50	Diode	ISS133	ダイオード	D401~407,419,420,422~431		
		iF 00 84 80	//	ISR35-100AT	//	D409~414,417		
		iF 01 06 90	Zener Diode	MTZ5.1B	ツェナーダイオード	D415,416		
		iF 00 64 60	//	MTZ5.6B	//	D408		
		iF 00 86 30	//	MTZ6.2A	//	D421		
		iF 00 88 60	//	MTZ12B	//	D418		R	
		iF 00 42 70	LED	SLR-55URC3H	LED	D464,465		
		iF 00 87 30	//	SLR-34URC3H3	//	D432~441 Black		
		VE 06 70 00	//	SLR-34YC3H3	//	// Titan		J	
		iF 00 87 30	//	SLR-34URC3H3	//	D448~463,466,467		
		iF 00 87 40	//	SLR-34MC3H3	//	D442~447		
		iF 00 49 40	//	LD-101VR	//	D470		G	
※		VE 99 13 00	//	GL6P228	//	D468 Black		
※		VF 34 01 00	//	GL6H228	//	// Titan		J	
※		VF 06 83 00	//	GL6P229	//	D469 Black		
※		VF 34 02 00	//	GL6H229	//	// Titan		J	
※		XE 39 20 01	IC	M54584P	IC	IC415		
		iG 11 96 00	//	M54562	//	IC416		
※		iR 38 38 00	//	TC74HC238P	//	IC414 } Inter-changeable		
		iR 02 38 20	//	μPD74HC238C	//	//			
※		XE 38 80 01	//	AN7810F	//	IC412		
		iG 06 55 10	//	NJM78L05	//	IC413		
		iG 15 25 00	//	BA6229	//	IC403		
		XD 13 20 01	//	M50455-060SP	//	IC407		
※		XE 39 00 01	//	LC6568H-3734	//	IC411		
		iG 00 12 70	//	TC4066BP	//	IC410 } Inter-changeable		
		iG 06 16 00	//	μPD4066BC	//	//			
		iG 08 92 00	//	LC4066	//	//			
		XD 08 40 01	//	MN4066B	//	//			
		iG 00 17 70	//	TC4051BP	//	IC404,405		
※		XA 05 30 01	//	TC4052BP	//	IC409 } Inter-changeable		
		XA 07 00 01	//	μPD4052BC	//	//			
		iG 05 51 00	//	TC4053BP	//	IC408 } Inter-changeable		
		iG 10 59 00	//	μPD4053BC	//	//			
		iG 12 61 00	//	MN4053B	//	//			
		iR 00 04 00	//	TC74HC04P	//	IC406 } Inter-changeable		
		iR 00 04 80	//	M74HC04P	//	//			

※New Parts (新規部品)

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
※		iR 03 67 00	IC	TC74HC367P	I C	IC401, 402 } Inter-changeable			
※		iR 03 67 80	〃	M74HC367	〃	〃 }			
		KA 80 45 50	Switch, Push	SPUL2-2	プッシュスイッチ	SW401		J,U,C,R,A,B	
		KA 80 44 70	〃	SPUL2-2	〃	〃		G	
		VA 94 53 00	Switch, Slide	JSA2220	スライドスイッチ	SW402		R	
		KA 90 63 80	Switch	5MEVQ-QRB-04M	ライトタッチスイッチ	SW403～437 } Inter-changeable			
		VE 32 73 00	〃	KHH-MA901	タクトスイッチ	〃 }			
※		VE 98 99 00	Receptor Unit	GP1U521A	受光ユニット	U401			
		VD 10 73 00	Relay	DH12D1-OM	リレー	RY401 } inter-changeable		A,B,G	
		VE 56 89 00	〃	〃	〃	〃 }		〃	
		KC 00 19 10	〃	DH12D1-OM	〃	RY401 } inter-changeble		J,U,C,R	
		VA 91 78 00	〃	DC12V TV-5	〃	〃 }		〃	
		VE 56 89 00	〃	DH12D1-OM	〃	〃 }		〃	
		VB 18 35 00	Pin Jack	1P	ピンジャック	PJ406			
※		VF 01 85 00	〃	1P	〃	PJ404			
※		VF 01 86 00	〃	1P	〃	PJ405			
※		VE 99 14 00	〃	3P	〃	PJ401～403			
		LB 10 07 30	Mini Jack	S-G8036	ミニジャック	JK401			
		LB 50 07 10	Connector Socket, ST	5P	STコネクターソケット	JK402 TUNER			
		LB 60 83 90	〃	6P	〃	JK403 TAPE			
		VD 00 45 00	Base Pin, PH	2P	PHベースピン	CB401, 403			
		VD 00 45 00	〃	2P	〃	CB404		G	
		VD 00 46 00	〃	3P	〃	CB405			
		VD 00 48 00	〃	5P	〃	CB406			
		VD 00 49 00	〃	6P	〃	CB407		J, U, C	
		VD 00 50 00	〃	7P	〃	CB408, 409			
		VD 00 51 00	〃	8P	〃	CB410			
		VD 00 53 00	〃	10P	〃	CB411～413			
		KB 00 04 00	Fuse	T5A 250V	ヒューズタイラッシュ	F401		J	
		KB 00 25 90	〃	UL ST-4 5A 250V	〃	〃		U, C, R	
		KB 00 29 80	〃	T2.5A 250V	ヒューズタイムラグ	〃		A, B, G	
		KB 00 29 80	〃	T2.5A 250V	〃	F403		G	
		KB 00 03 70	〃	T3.5A 250V	ヒューズタイラッシュ	F402		R	
		LA 00 21 10	Wrapping Terminal	2P P=5 i-Type	ラッピング端子台				
		LA 00 21 40	〃	2P P=10 i-Type	〃				
		LA 00 38 70	〃	2P P=10 WTM-Type	〃			A, B, G	
		LB 20 18 80	Pin, Fuse Holder	PC-FH1	ヒューズホルダーピン				
		LB 60 81 70	AC Outlet	3P	ACアウトレット			J, U, C, R	
		BA 09 29 70	Heat Sink	OSH-2425-SP	放熱器				
		BB 06 95 10	Ground Metal		ランド金具				
		Ei 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドBタイトネジ	PACK			
※		VF 21 14 00	Damper		ダンパー				

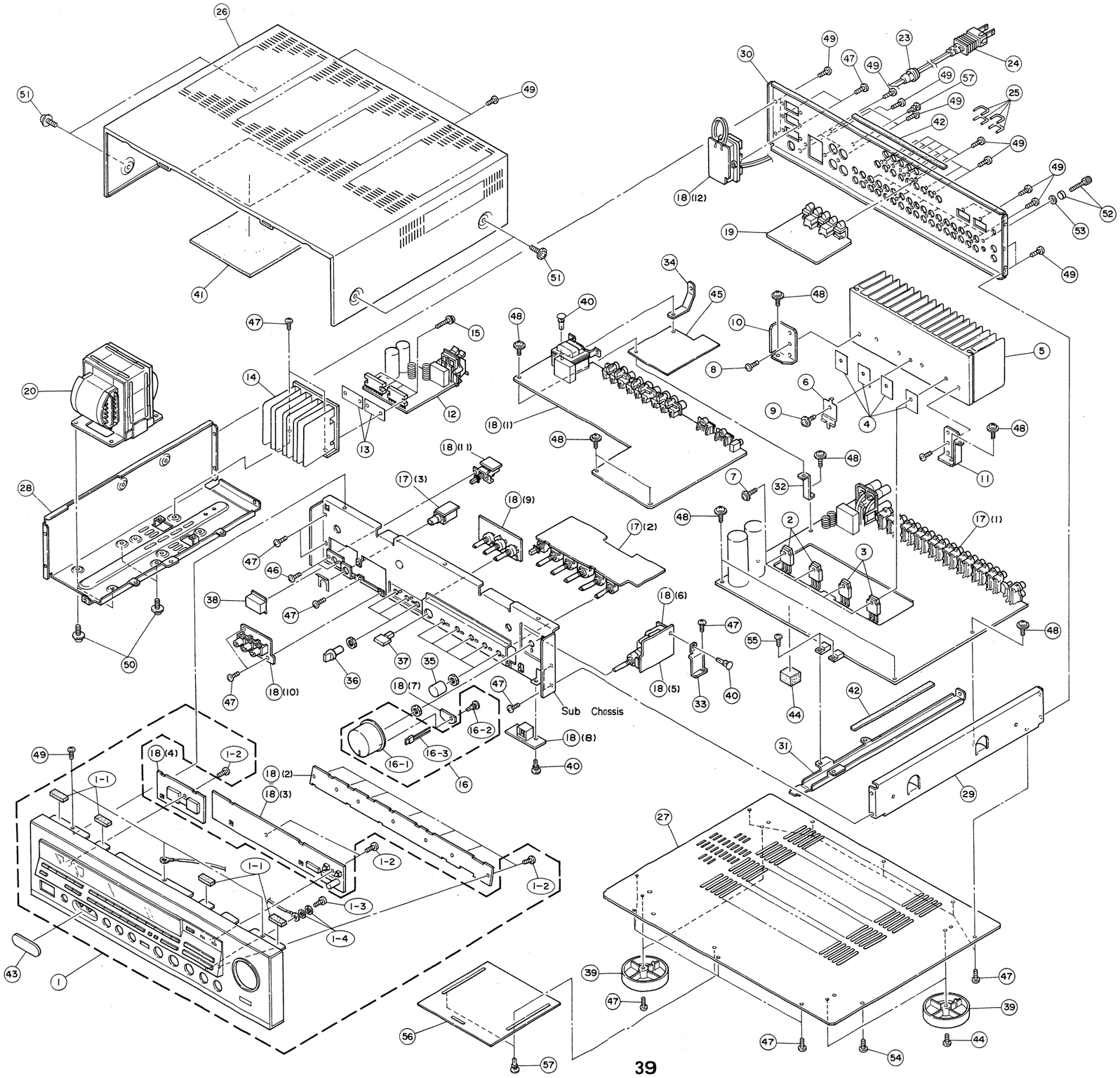
※New Parts (新規部品)

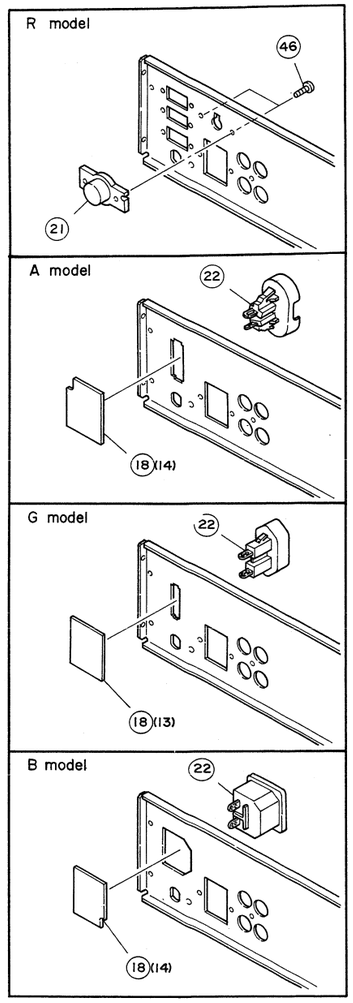
	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
※		***NA 09 87 30***	***S-Terminal Circuit Board***		S端子シート				
		FG 21 05 00	Ceramic Cap.	5pF 50V	セラコン	C604, 606			
		FG 21 21 00	〃	100pF 50V	〃	C609, 610			
		VA 76 21 00	〃	0.1μF 25V	積層セラコン	C601 } Inter-changeable			
		FZ 00 58 80	〃	0.1μF 25V	〃	〃 }			
		UJ 11 74 70	Electrolytic Cap.	47μF 6.3V	ケミコン	C603			
		UJ 13 72 20	〃	22μF 16V	〃	C605			
		UJ 13 74 70	〃	47μF 16V	〃	C602			
		UJ 14 71 00	〃	10μF 25V	〃	C608			
		UH 12 91 00	〃	1000μF 10V	〃	C607			
		iA 10 15 21	Transistor	2SA1015(Y)	トランジスター	Q602, 604			
		iC 05 35 40	〃	2SC535(A,B,C)	〃	Q601, 603			
※		XA 05 30 01	IC	TC4052BP	I C	IC601 } Inter-changeable			
		XA 07 00 01	〃	μPD4052BC	〃	〃 }			
		iF 00 34 50	Diode	1SS133	ダイオード	D601～604			
※		VG 06 64 00	DIN Jack	4P SW付き	ミニDINジャック	JK602, 604			
※		VF 04 00 00	〃	4P	〃	JK601, 603, 605			

※New Parts (新規部品)

AVX-100/U

■ EXPLODED VIEW





■ MECHANISM PARTS

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
※	1	VF 27 17 00	Panel Unit		パネルユニット	Black		J		
※	//	VF 27 18 00	//		//	Black		U,C		
※	//	VF 27 19 00	//		//	Black		G		
※	//	VG 32 83 00	//		//	Black		R		
※	//	VG 32 84 00	//		//	Black		A,B		
※	//	VF 27 20 00	//		//	Titan		J		
	1-1	VE 22 26 00	Cushion	8× 20× t5	クッション		MX-55			
	1-2	Ei 32 60 66	Binding Head Tapping Screw	2.6×6 FCRM3-BI	バインドPタイトネジ	PACK				
	1-3	EA 02 60 36	Pan Head Screw	2.6×3 ZMC2-Y	ナベ小ネジ	PACK				
	1-4	EV 41 02 66	Toothed Lock Washer	φ2.6 ZMC2-Y	歯付座金A	PACK				
	2	iA 11 06 40	Transistor	2SA1106(O,P,Y)	ペアトランジスター	Q147,148 pair / Q145,146 pair (Inter-changeable)				
	//	iC 25 81 40	//	2SC2581(O,P,Y)	//					
※	3	iX 61 10 40	//	2SB1362(P,S,Q)	//	Q147,148 pair				
	//	iX 61 10 50	//	2SD2053(P,S,Q)	//	Q145,146 pair				
	4	VB 43 50 00	Sheet	19×24	放熱シート					
※	5	VF 13 95 00	Radiator		ラジエター					
※	6	VF 54 59 00	Support, Transistor		TRサポート					
	7	EK 33 00 10	BW Head Tapping Screw	3×12 FCRM3-BI	カップBタイトネジ					
	8	EZ 00 16 10	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドBタイトネジ					
	9	EK 33 60 10	BW Head Tapping Screw	3×8φ10 FCM3	BWヘッドタッピングネジ	(2種)				
※	10	VF 54 57 00	Holder, L		ホルダー L					
※	11	VF 54 58 00	Holder, R		ホルダー R					
※	12	NA 09 87 10	Sub Amp. Circuit Board		サブアンプシート			J,U,C,R,A,B		
※	//	NA 09 87 20	//		//			G		
	13	VB 43 51 00	Sheet	18×36	放熱シート					
※	14	VE 85 68 00	Radiator		ラジエター					
	15	EK 33 00 10	BW Head Tapping Screw	3×12 FCRM3-BI	カップBタイトネジ					
※	16	VF 27 27 00	VR Knob Unit		VRツマミユニット	Black				
※	//	VF 27 28 00	//		//	Titan				
	16-1	VD 53 48 00	Knob	φ42	ツマミ	Black	AVC-30			
※	//	VE 83 85 00	//	φ42	//	Titan				
	16-2	VB 66 92 00	Plastic Rivet		プラスチックリベット					
※	16-3	VF 22 77 00	LED(Red)	SLB-15VW3F	LED	Black				
	//	VF 16 59 00	LED(Yellow)	SLB-15YY	//	Titan				
※	17	NA 09 86 10	Main Circuit Board		メインシート			U,R,A,B		
※	//	NA 09 86 20	//		//			C		
※	//	NA 09 86 30	//		//			G		
※	//	NA 09 86 40	//		//			J		
※	18	NA 09 86 50	Micro Computer Ciruit Board		マイコンシート	Black		J		
※	//	NA 09 86 60	//		//	Black		U,C		
※	//	NA 09 86 70	//		//	Black		R		
※	//	NA 09 86 80	//		//	Black		A,B		
※	//	NA 09 86 90	//		//	Black		G		
※	//	NA 09 87 00	//		//	Titan		J		
※	19	NA 09 87 30	S-Terminal Circuit Board		S端子シート			J,U,C		
※	20	XE 58 80 01	Power Transformer		電源トランス			J		⚠
※	//	XE 58 90 01	//		//			U		⚠
※	//	XE 59 00 01	//		//			C		⚠
※	//	XE 59 10 01	//		//			R		⚠
※	//	XE 59 20 01	//		//			A,B		⚠
※	//	XE 59 30 01	//		//			G		⚠
	21	VA 93 29 00	Voltage Selector		電圧切換器			R		⚠

※New Parts (新規部品)

	Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク	
	22	VC 62 61 00	AC Outlet	2P	ACアウトレット		A		⚠
	//	VC 62 68 00	//	2P	//		G		⚠
	//	VC 62 70 00	//	2P	//		B		⚠
	23	CB 62 01 90	Cord Stopper	CM-22B	コードストッパー		R,A,B,G		
	//	CB 62 02 00	//	CM-22C	//		J,U,C		
	24	MG 00 12 10	AC Power Cord	2m 15A 125V	電源コード		J		⚠
	//	MG 00 22 20	//	1.98m 10A 125V	//		U,C		⚠
	//	MG 00 23 10	//	2m 7.5A 250V	//		A		⚠
	//	MG 00 09 20	//	2.5m 7.5A 250V	//		A		⚠
	//	MG 00 16 30	//	2m 6A 250V	//		R		⚠
	//	MG 00 23 20	//	2m 2.5A 250V	//		G		⚠
	//	MG 00 16 20	//	2m 2.5A 250V	//		G		⚠
	//	MG 00 18 60	//	2m 2.5A 250V	//		B		⚠
	//	MG 00 23 30	//	2m 300/300V	//		B		⚠
	25	LB 10 11 10	Short Pin Plug		ショートピンプラグ				
	26	VD 94 72 00	Top Cover		トップカバー	Black	MX-55		
	//	VE 78 21 00	//		//	Titan	MX-55		
※	27	VE 49 33 00	Bottom Cover		ボトムカバー				
※	28	VE 49 35 00	Frame(L)		フレーム(L)				
※	29	VE 49 36 00	Frame(R)		フレーム(R)				
※	30	VE 49 37 00	Rear Panel		リアパネル		J		
※	//	VE 49 38 00	//		//		U		
※	//	VG 19 47 00	//		//		C		
※	//	VE 49 39 00	//		//		R		
※	//	VE 49 40 00	//		//		G		
※	//	VF 06 12 00	//		//		B		
※	//	VF 06 13 00	//		//		A		
※	31	VE 49 41 00	Frame(C)		フレーム(C)				
※	32	VE 49 42 00	Holder(L)		ホルダー(L)				
※	33	VF 23 83 00	Holder,VR		VRホルダー				
※	34	VF 66 48 00	Holeder,PC		PCホルダー				
	35	BA 09 47 30	Knob	φ14	ノブ	Black	C-45		
※	//	VE 83 77 00	//	φ14	//	Titan			
	36	CB 61 37 20	Knob, Switch	φ12	SWツマミ	Black	K-1000B		
	//	VD 91 79 00	//	φ12	ノブ	Titan	MX-55		
	37	CB 66 07 90	Button	3×14	ボタン	Black	AX-900		
	//	VD 91 88 00	//	3×14	//	Titan	MX-55		
	38	CB 66 08 10	Button, Power	13×25	パワーボタン	Black	AX-900		
※	//	VF 48 71 00	Button Ass'y, Power		パワーボタンAss'y	Titan			
※	39	VE 39 07 00	Leg	φ60	脚		U,C,R,A,B,G		
※	//	VE 39 09 00	//	φ60	//		J		
	40	CB 60 56 20	Plastic Rivet		プラスチックリベット				
※	41	VF 22 26 00	Damper	100×t2	ダンパー				
	42	CB 61 87 90	Damper, Switch	8×156×t2	SWダンパー				
	43	VB 67 92 00	Plate, PJ		ピンジャックプレート		U,C,R,A,B,G		
※	44	VF 89 42 00	Damper, PC		ダンパーPC				
※	45	VF 89 43 00	Shield Plate		シールドプレート				
	46	ED 33 00 66	Binding Head Screw	3×6 FCRM3-BI	バインド小ネジ	PACK			
	47	Ei 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドBタイトネジ	PACK			
	48	EK 33 60 10	BW Head Tapping Screw	3×8×φ10 FCRM3-BI	BWヘッドタッピングネジ	(2種)			
	49	EZ 00 04 60	Binding Head Tapping Screw	3×8 FCRM3-BI	ボンディングBタイトネジ				
	50	EK 36 50 20	BW Head Screw	4×6×φ10FCRM3-BI	BWヘッド小ネジ				

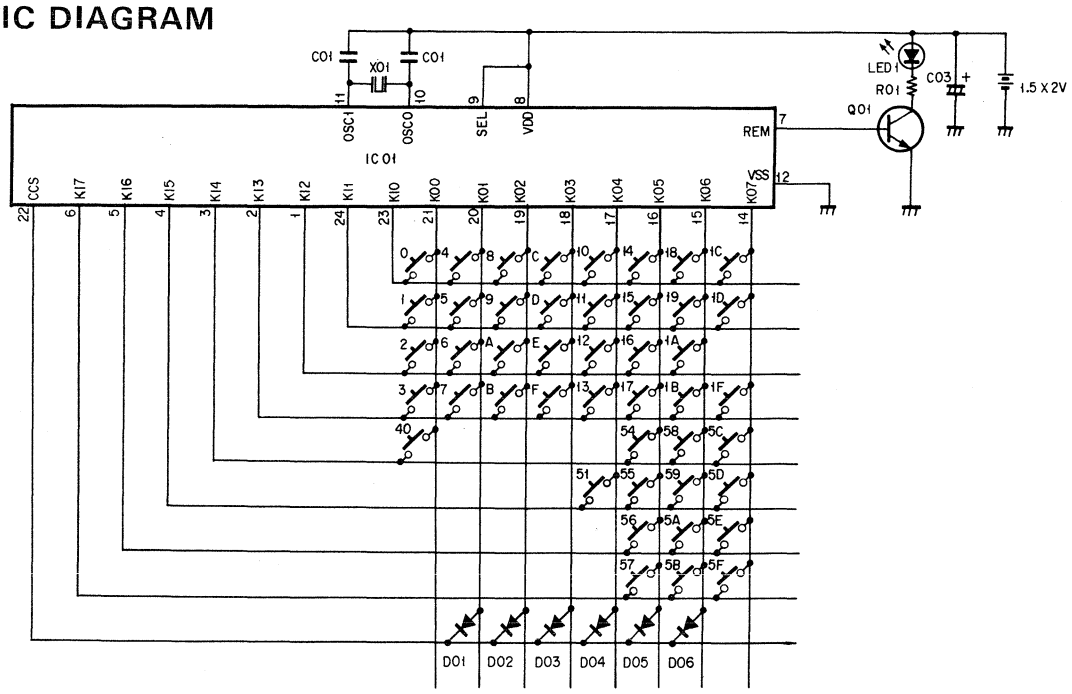
※New Parts (新規部品)

Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
51	EZ 00 13 20	Cap Tyte Screw	4×8×φ10FCRM3-BI カップSタイトネジ	Black			
//	EX 60 09 60	//	4×8 Grey //	Titan	MX-55		
52	AA 62 73 10	GND Terminal Screw	3×13 FNM3-3g GNDターミナルSTG				
53	EV 90 13 60	Sems Plain Washer	φ3.6×φ10×t0.8 FNM3-3g セムス平座金				
54	Ei 03 00 66	Binding Head Tapping Screw	3×6 ZMC2-Y バインドBタイトネジ	PACK			
55	ED 33 00 86	Binding Head Screw	3×8 FCRM3-BI バインドSタイトネジ	PACK			
	CB 06 92 50	Binding Tie	BK-I インシュロックタイ				
56	VF 96 65 00	Sheet	シート／メッセージ			J	
//	VF 96 66 00	//	//			U,C,R,A,B,G	
57	CB 06 88 80	Plastic Rivet	プラスチックリベット				
		Accessories	付属品				
	Mi 08 17 80	Mini Plug	ミニプラグコード				
	VB 30 83 00	ST Connector	5P Im ST コネクター				
	VB 30 84 00	//	6P Im //				
	VB 30 82 00	Pin Plug Cord	IP 2m ピンプラグコード	(Yellow)			
	Mi 08 87 90	//	2P Im //	(Red, white)			
※	VF 33 72 00	Remote Control Transmitter	RX-AVX100M リモートコントロールトランスミッター			J	
※	VF 33 73 00	//	RS-AVX100 //			U,C,R,A,B,G	
		Dry Cell	AA,R6 単三乾電池				

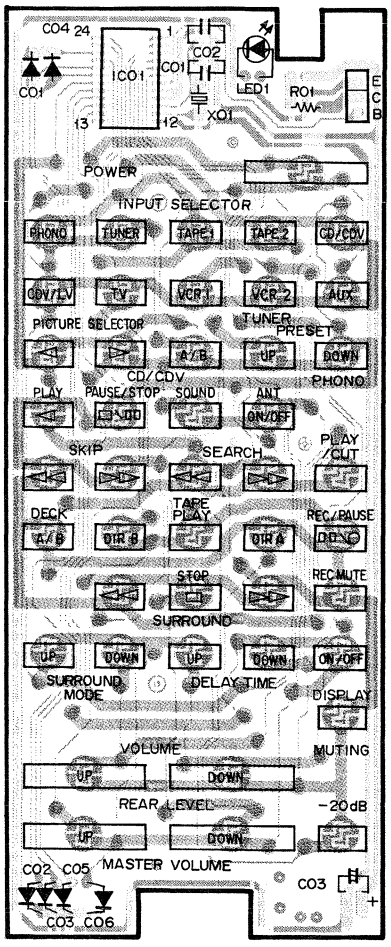
※New Parts（新規部品）

RS-AVX100
REMOTE CONTROL TRANSMITTER

● SCHEMATIC DIAGRAM

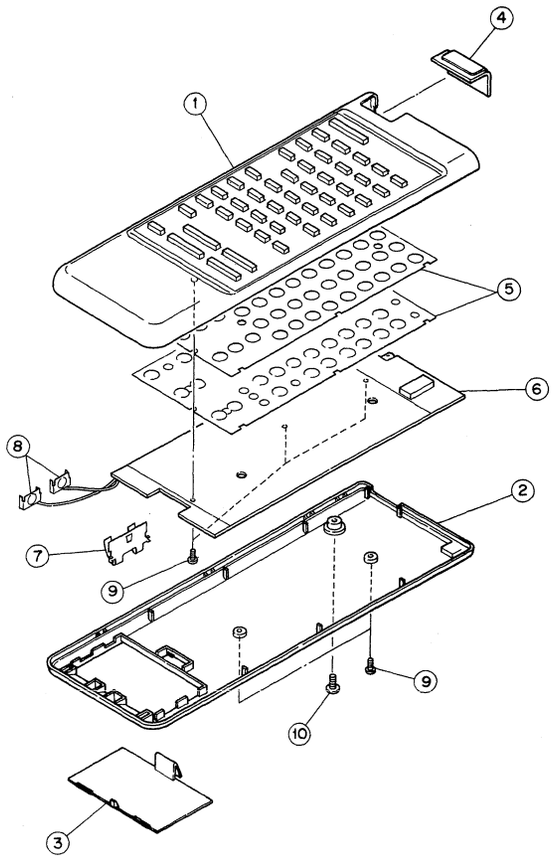


● PRINTED CIRCUIT BOARD



KEY NO.	FUNCTION	KEY NO.	FUNCTION
0	TAPE PLAY	40	TAPE DIR B
1	◁◁		
2	▷▷		
3	STOP		
4	REC / PAUSE		
5	REC MUTE		
6	DECK A/B		
7	DIR A		
8	CD/CDV PLAY		
9	PAUSE/STOP		
A	SKIP ▷▷|		
B	SKIP |◁◁		
C	SERCH ▷▷		
D	SERCH ◁◁		
E	PHONO PLAY/CUT		
F	PICTYRE SELECTON UP		
10	TUNER PRESET UP		
11	PRESET DOWN	51	CD/CDV SOUND
12	A/B		
13	PICTURE SELESTON DOWN		
14	INPUT SELECTON PHONO	54	INPUT SELECTOR TV
15	CD/CDV	55	CDV/LV
16	TUNER	56	VCR1
17	AUX	57	VCR2
18	TAPE 1	58	SURROUND ON/OFF
19	TAPE 2	59	MODE UP
1A	MASTER VOLUME UP	5A	MODE DOWN
1B	DOWN	5B	DELAY TIME UP
1C	MUTING -20dB	5C	DELAY TIME DOWN
1D	DISPLAY	5D	CD/CDV ANT ON/OFF
		5E	REAR LEVEL UP
1F	POWER	5F	DOWN

■ EXPLODED VIEW



	Ref. No.	Part No.	Description		部品名	Remarks/Markets	Common Model		ランク
※		VF 33 73 00	Remote Control Transmitter	RS-AVX100	リモートコントロールトランスミッター			LH-101-70	
※	1	CX 60 52 70	Case(A)Ass'y		ケース(A) Ass'y			LH-101-70CFMF	
	2	CX 60 44 50	Case(B)Ass'y		ケース(B) Ass'y			LH-101-70CFMF	
	3	CX 60 44 60	Lid		電池ケース			LH-101-62CD	
	4	CX 60 20 10	Filter, Smoke		スモーク板			LH-101-FI	
※	5	KX 60 14 00	Mainbrane Switch Unit		メインブレンスイッチユニット			FB-101-70	
※	6	NX 60 28 10	P.C Board Ass'y		プリント基板Ass'y			BP-LH101-ASSY-70	
	7	LX 60 08 30	Dry Cell Terminal(A)		電池接片(A)			DT-LH101FNB	
	8	LX 60 13 40	// (B)		// (C)			LH-101-DTCN	
	9	EX 60 04 00	Bind Head Tapping Screw	2×4 ZMC2-BI	ナベタッピングネジ				
	10	Ei 32 60 66	Binding Head Tapping Screw	2.6×6 ZMC2-BI	バインドタッピングネジ	PACK			
※			***P.C Board Ass'y***		プリント基板Ass'y				
		iX 61 10 70	LED	SIR-56SB3	LED				
		HF 85 31 00	Carbon Resistor	1Ω 1/6W	カーボン抵抗	R01			
		iF 00 34 50	Diode	1SS133	ダイオード	D01～05			
		iX 61 10 80	Transistor	2SD1469	トランジスタ	Q01			
		iX 61 16 30	IC	μPD6122G	IC	IC01			
		UJ 11 74 70	Eelectrolytic Cap.	47μF 6.3V	ケミコン	C03			
		FG 21 21 00	Ceramic Cap.	100pF 50V	セラコン	C01,02			
		QX 60 00 20	Ceramic Resonator	CSB455EB	セラミック発振器	X01			

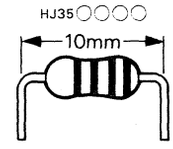
※New Parts（新規部品）

Parts List for Carbon Resistor

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	HJ353100	HF853100	12KΩ	HJ357120	HF857120
1.8 〃	HJ353180	※	15 〃	HJ357150	HF857150
2.2 〃	HJ353220	HF853220	18 〃	HJ357180	HF857180
3.3 〃	HJ353330	HF853330	22 〃	HJ357220	HF857220
4.7 〃	HJ353470	HF853470	27 〃	HJ357270	HF857270
5.6 〃	HJ353560	HF853560	33 〃	HJ357330	HF857330
10 〃	HJ354100	HF854100	39 〃	HJ357390	HF857390
15 〃	HJ354150	HF854150	47 〃	HJ357470	HF857470
22 〃	HJ354220	HF854220	56 〃	HJ357560	HF857560
27 〃	HJ354270	HF854270	68 〃	HJ357680	HF857680
33 〃	HJ354330	HF854330	82 〃	HJ357820	HF857820
39 〃	HJ354390	HF854390	91 〃	HJ357910	HF857910
47 〃	HJ354470	HF854470	100 〃	HJ358100	HF858100
56 〃	HJ354560	HF854560	120 〃	HJ358120	HF858120
68 〃	HJ354680	HF854680	150 〃	HJ358150	HF858150
82 〃	HJ354820	HF854820	180 〃	HJ358180	HF858180
100 〃	HJ355100	HF855100	220 〃	HJ358220	HF858220
110 〃	HJ355110	HF855110	270 〃	HJ358270	HF858270
120 〃	HJ355120	HF855120	330 〃	HJ358330	HF858330
150 〃	HJ355150	HF855150	390 〃	HJ358390	HF858390
160 〃	HJ355160	※	470 〃	HJ358470	HF858470
180 〃	HJ355180	HF855180	560 〃	HJ358560	HF858560
220 〃	HJ355220	HF855220	680 〃	HJ358680	HF858680
270 〃	HJ355270	HF855270	820 〃	HJ358820	HF858820
330 〃	HJ355330	HF855330	1.0MΩ	HJ359100	HF859100
390 〃	HJ355390	HF855390	1.2 〃	HJ359120	※
470 〃	HJ355470	HF855470	1.5 〃	HJ359150	HF859150
510 〃	※	HF855510	1.8 〃	HJ359180	HF859180
560 〃	HJ355560	HF855560	2.2 〃	HJ359220	HF859220
680 〃	HJ355680	HF855680	3.3 〃	HJ359330	HF859330
820 〃	HJ355820	HF855820	3.9 〃	HJ359390	※
910 〃	HJ355910	HF855910	4.7 〃	HJ359470	HF859470
1.0KΩ	HJ356100	HF856100			
1.2 〃	HJ356120	HF856120			
1.5 〃	HJ356150	HF856150			
1.8 〃	HJ356180	HF856180			
2.0 〃	HJ356200	HF856200			
2.2 〃	HJ356220	HF856220			
2.4 〃	HJ356240	HF856240			
2.7 〃	HJ356270	HF856270			
3.0 〃	HJ356300	HF856300			
3.3 〃	HJ356330	HF856330			
3.6 〃	HJ356360	HF856360			
3.9 〃	HJ356390	HF856390			
4.7 〃	HJ356470	HF856470			
5.1 〃	HJ356510	HF856510			
5.6 〃	HJ356560	HF856560			
6.8 〃	HJ356680	HF856680			
8.2 〃	HJ356820	HF856820			
9.1 〃	HJ356910	HF856910			
10 〃	HJ357100	HF857100			

1/4W Type

HJ35○○○○



1/6W Type

HF85○○○○