

140

STEREO AMPLIFIER

AVX-500

SERVICE MANUAL

AVX-500

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).

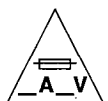
IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ CONTENTS

TO SERVICE PERSONNEL	1	ADJUSTMENTS	7
INTERNAL VIEW	1	IC DATA	8~11
FRONT PANEL	2	PRINTED CIRCUIT BOARD	12~19
REAR PANELS	3	SCHEMATIC DIAGRAM	20~22
SPECIFICATIONS	4	INTERCONNECT WIRING DIAGRAM	23~24
BLOCK DIAGRAM	5	PARTS LIST	25~35
DISASSEMBLY PROCEDURES	6	REMOTE CONTROL TRANSMITTER	36~40
REMOTE CONTROL TERMINAL	7		

■ TO SERVICE PERSONNEL

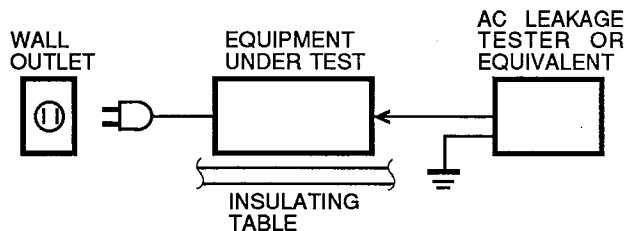
1. **Critical Components Information.**
Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. **Leakage Current Measurement (For 120V Model Only).**
When service has been completed, it is imperative that you 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.
- **FUSE REPLACEMENT :**



This symbol, when located adjacent to a fuse, indicates:

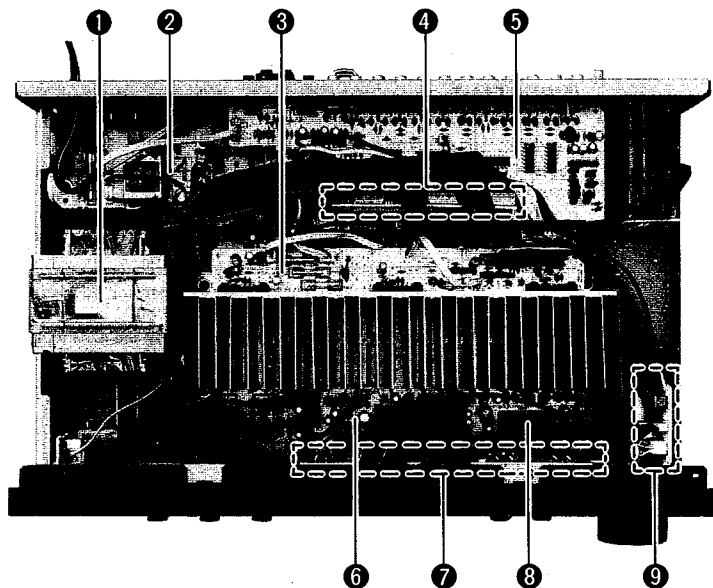
“ **CAUTION** : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE FUSE.”

- Fuse F201 must be 7A 125V.
- Fuse F202 and F203 must be T5A 125V.
- Fuse F204 to F206 must be T2.5A 250V.



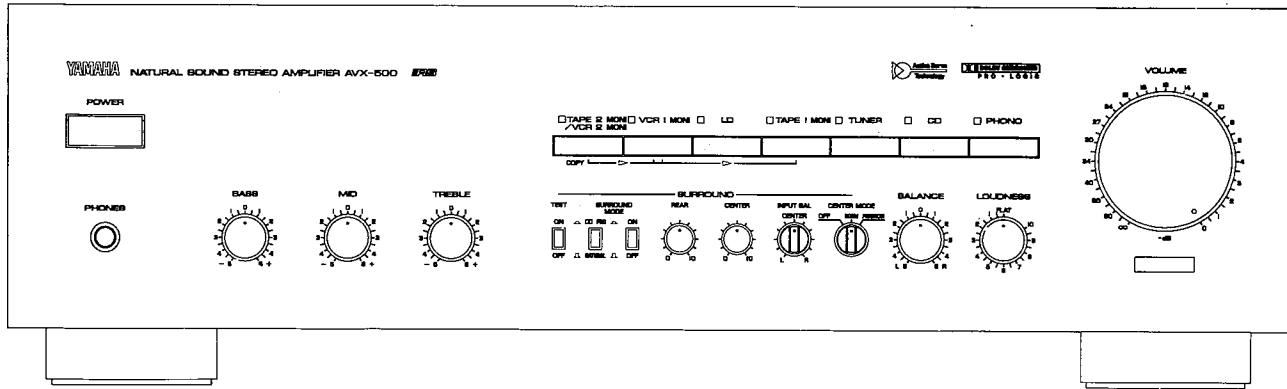
- **POLARIZATION (U, C models only)**
This amplifier product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

■ INTERNAL VIEW



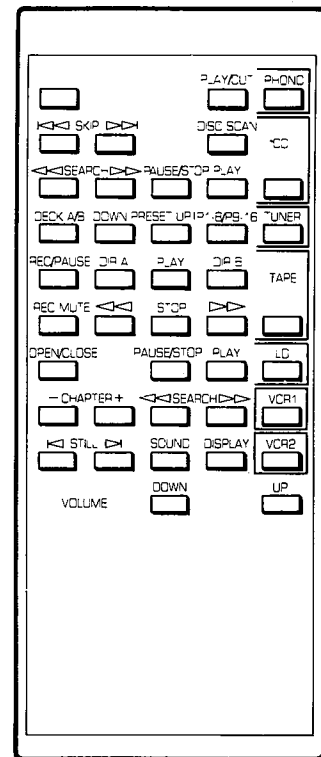
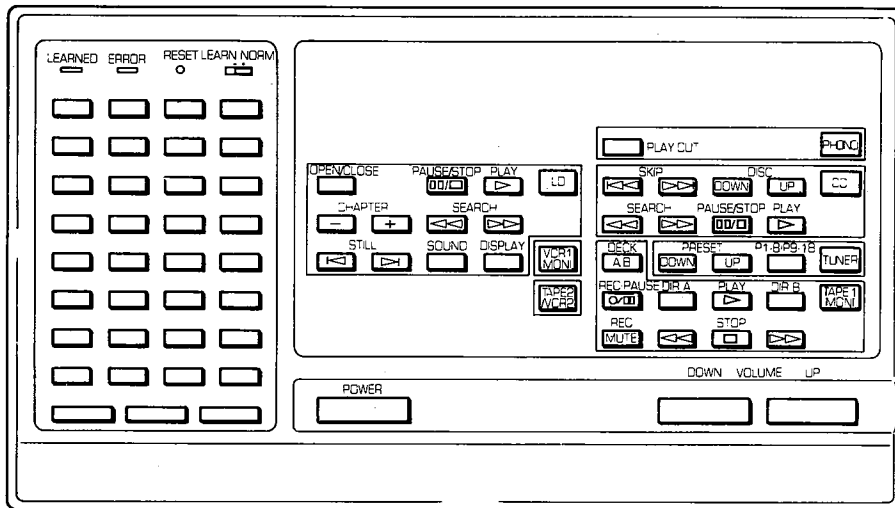
- | | |
|--|---|
| <ul style="list-style-type: none"> ① POWER TRANSFORMER
U. S. A model : XH038A00
Canadian model : XH039A00
General model : XH040A00
Australian & British models : XH041A00
European model : XH042A00 ② MAIN CIRCUIT BOARD (2) | <ul style="list-style-type: none"> ③ MAIN CIRCUIT BOARD (3) ④ μ-COM CIRCUIT BOARD (9) ⑤ μ-COM CIRCUIT BOARD (1) ⑥ MAIN CIRCUIT BOARD (1) ⑦ SURROUND CIRCUIT BOARD (1) ⑧ LA2770 (IC214) : DOLBY PRO LOGIC ⑨ SURROUND CIRCUIT BOARD (2) |
|--|---|

FRONT PANEL



U, C models

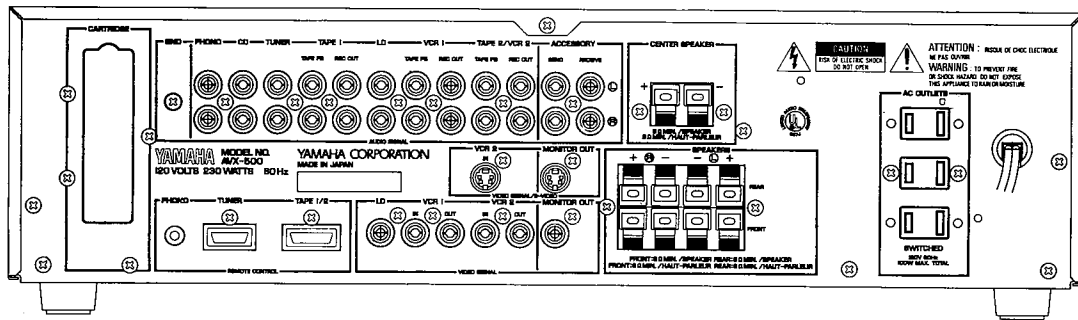
R, A, B, G models



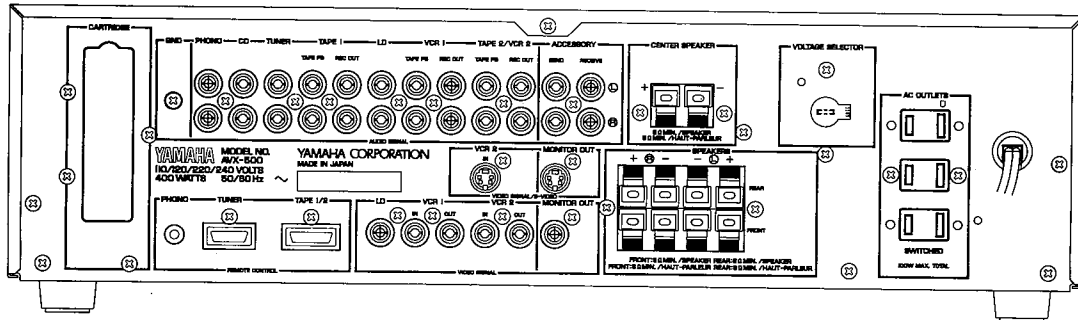
REAR PANELS

AVX-500

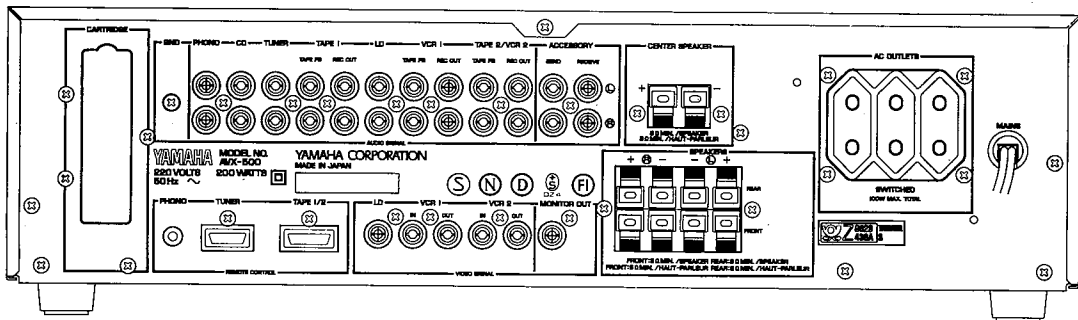
U. S. A & Canadian models



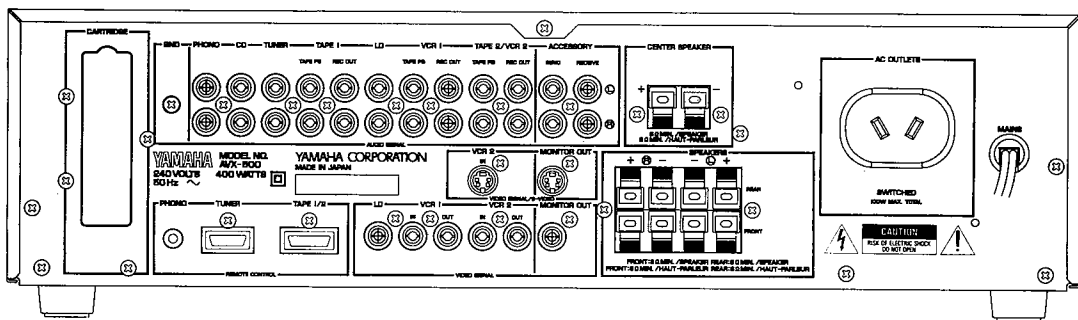
General model



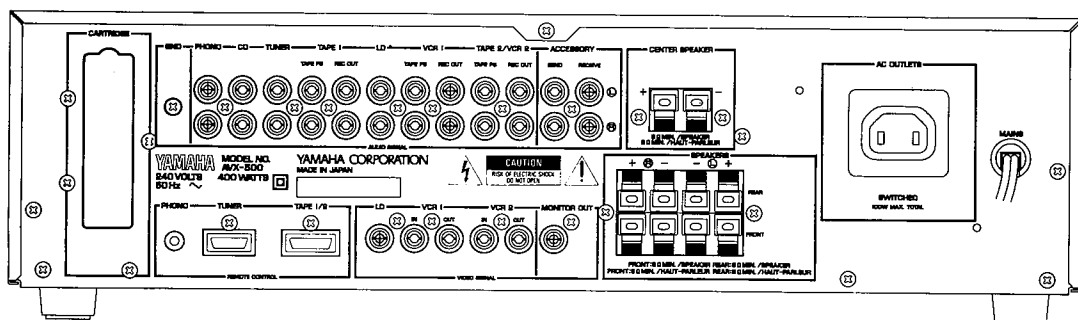
European model



Australian model



British model



SPECIFICATIONS

AUDIO SECTION

Minimum RMS Output Power Per Channel		
FRONT		
20Hz~20kHz, 0.1% THD, 8Ω	80W (R, U, C)	40W (A, B, G)
20Hz~20kHz, 0.1% THD, 6Ω	100W (R, U, C)	60W (A, B, G)
REAR (at NATURAL SURROUND)		
1kHz, 1% THD, 8Ω	15W (R, U, C)	10W (A, B, G)
CENTER		
1kHz, 1% THD, 8Ω	15W (R, U, C)	10W (A, B, G)

Dynamic Power Per Channel (by IHF Dynamic Headroom measuring method)		
8Ω	115W (R, U, C)	75W (A, B, G)
6Ω	145W (R, U, C)	90W (A, B, G)
4Ω	175W (R, U, C)	110W (A, B, G)

DIN Standard Output Power Per Channel	
1kHz, 1% THD, 4Ω	85W (G)

Dynamic Headroom	
8Ω / 6Ω	1.58dB / 1.61dB

IEC Power	
1kHz, 0.05% THD, 8Ω / 6Ω	65W / 75W (G)

Damping Factor	
1kHz, 8Ω	50

Input Sensitivity / Impedance	
Phono MM	2.5mV / 47kΩ
CD etc.	150mV / 47kΩ

Input Sensitivity (New IHF)	
Phono MM	0.29mV
CD etc.	17mV

Maximum-Input Signal	
1kHz, 0.02% THD, Phono MM	80mV

Output Level / Impedance	
Rec Out	150mV / 1.2kΩ

Headphone Jack Rated Output / Impedance	
0.1% THD, RL=8Ω	240mV / 150Ω

Frequency Response	
20Hz~20kHz, CD etc.	-0.5dB ± 0.5dB

RIAA Equalization Deviation	
Phono MM	0dB ± 0.5dB

Total Harmonic Distortion (20Hz~20kHz)		
Phono MM to Rec Out, 3V	0.01%	
CD etc to Speaker Out, 40W / 8Ω	0.05% (R, U, C)	
CD etc to Speaker Out, 25W / 8Ω	0.05% (A, B, G)	

Signal to Noise Ratio (IHF-A-Network)		
Phono MM (5mV Input Shorted)	79dB (R, U, C, A, B)	76dB (G)
CD etc. (Shorted)	96dB (R, U, C)	94dB (A, B, G)

Residual Noise (IHF-A-Network)	
	200μV

Channel Separation (Vol. -30dB)		
Phono MM input shorted 1kHz / 10kHz	65dB / 50dB	
CD etc input 5.1kΩ terminated 1kHz / 10kHz	65dB / 50dB	

Tone Control Characteristics		
BASS	boost / cut	±10dB (20Hz)
	turnover frequency	350Hz
TREBLE	boost / cut	±10dB (20kHz)
	turnover frequency	3.5kHz

MID	control range	±10dB (1kHz)
	center frequency	1kHz

Continuous Loudness Control (Level related equalization)	
Attenuation	-20dB (1kHz)

Gain tracking error (0dB~60dB)	3dB
---------------------------------------	-----

VIDEO SECTION

Video Signal	
Input / Output	1Vp-p / 75Ω

GENERAL

Power Supply	
U, C models	AC120V, 60Hz
R model	AC110/120/220/240V, 60/50Hz
G model	AC220V, 50Hz
A, B models	AC240V, 50Hz

Power Consumption	
U model	230W
C model	480VA / 380W
R, A, B models	400W
G model	200W

AC Outlet	
Switched x 3 (R, U, C, G)	100W max. (Total)
Switched x 1 (A, B)	100W max.

Dimensions (WxHxD)	435x125.5x304.7mm (17-1/8"x4-15/16"x12")
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Weight	8.4kg (18 lbs 8 oz)
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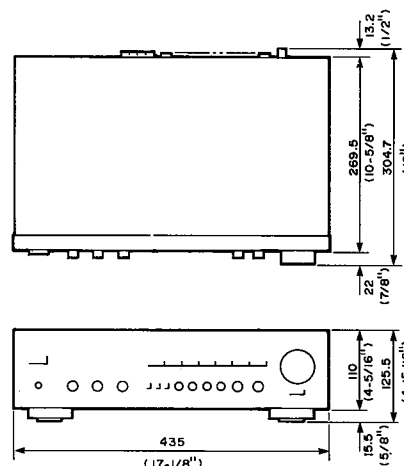
*Specifications subject to change without notice.

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



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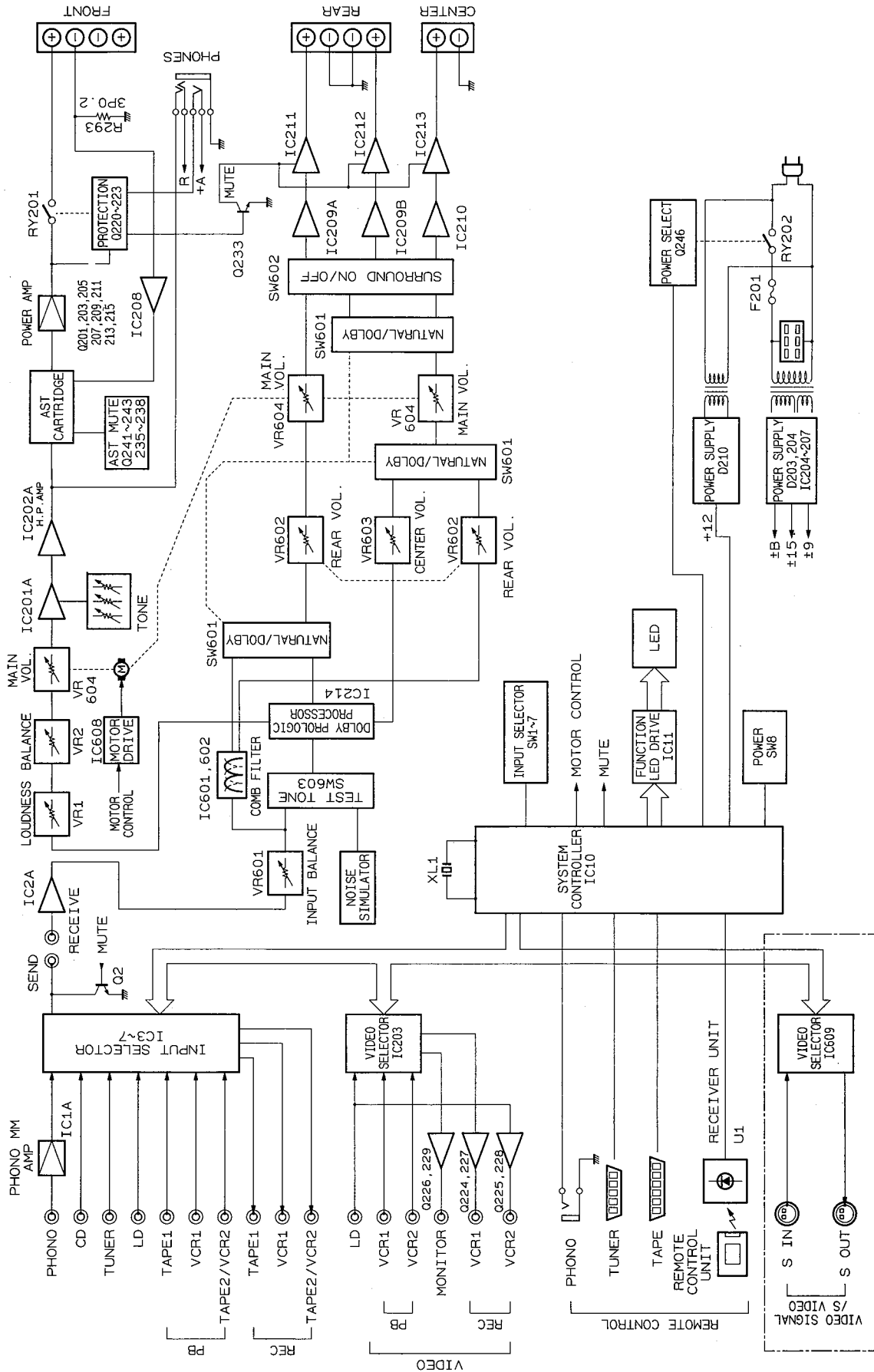
DIMENSIONS



Unit : mm (inch)

■ BLOCK DIAGRAM

AVX-500



ONLY U.C.R.A

■ DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

- a. Remove 5 screws (①) in Fig. 1.
- b. Lift the Top Cover to the back side and move it rearward slantingly.

2. Removal of Bottom Cover

Remove 4 screws (②) in Fig. 1.

3. Removal of Front Panel

Remove 6 screws (③) in Fig. 1.

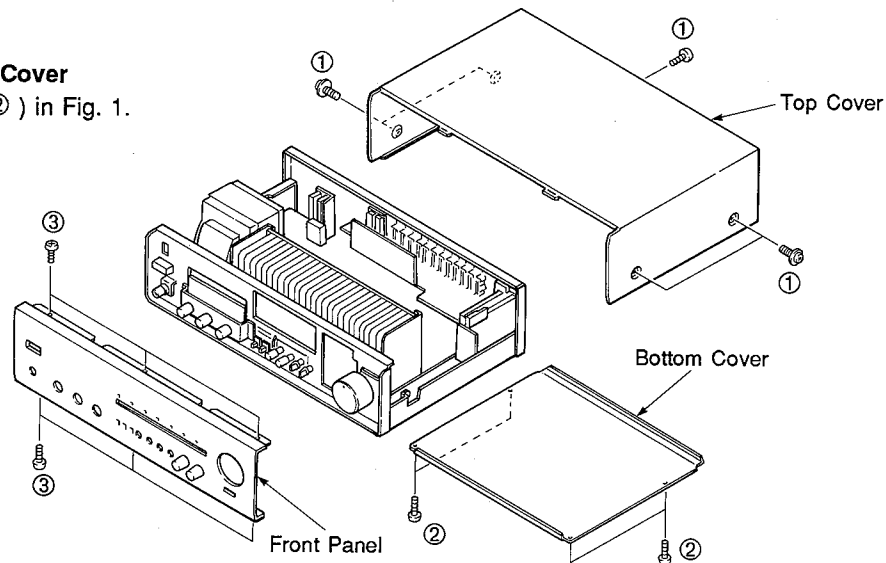


Fig. 1

● Installation of Top Cover

< Example of incorrect installation >

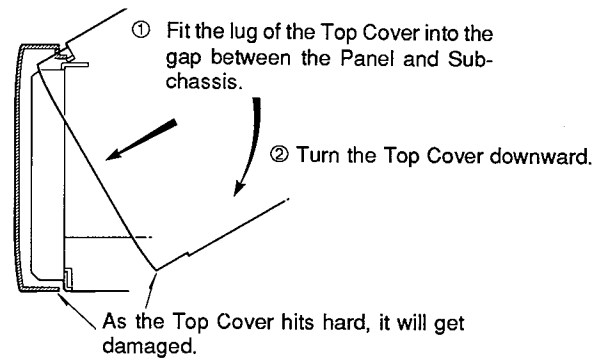


Fig. 2

< Example of correct installation >

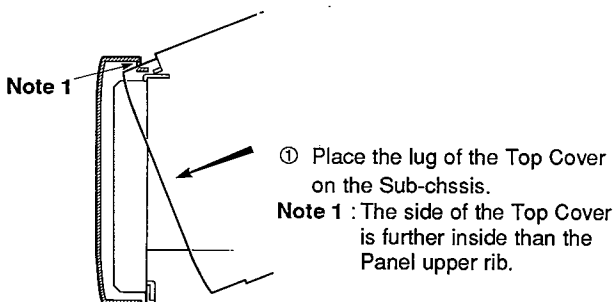


Fig. 3

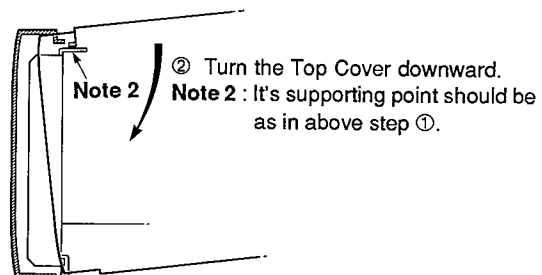


Fig. 4

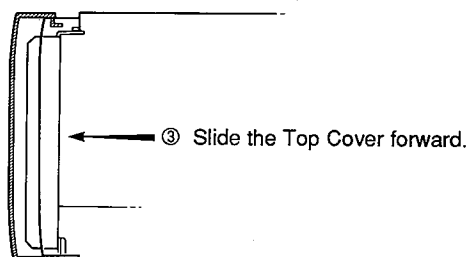


Fig. 5

■ REMOTE CONTROL TERMINAL

● TAPE



NC TR0 TR1 TR2 TR3 NC

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
H	H	H	H	A/B
H	H	L	L	DIR A
H	H	L	H	DIR B

Notes : Elec. Voltage H : 3~5V, L : Less than 0.6V
 Pulse Width More than 30m sec.
 Output Impedance
 Less than 10kΩ

● TUNER



REM0
REM1

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

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.

● PHONO

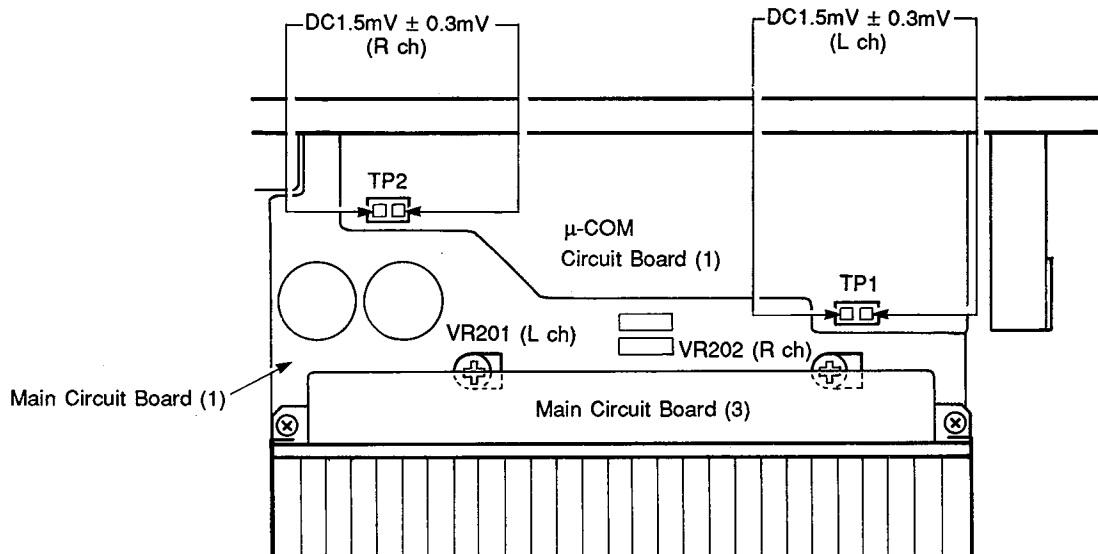
14±1V voltage is output for about a second with the remote control PLAY/CUT key on.

■ ADJUSTMENTS

● Idling Adjustment

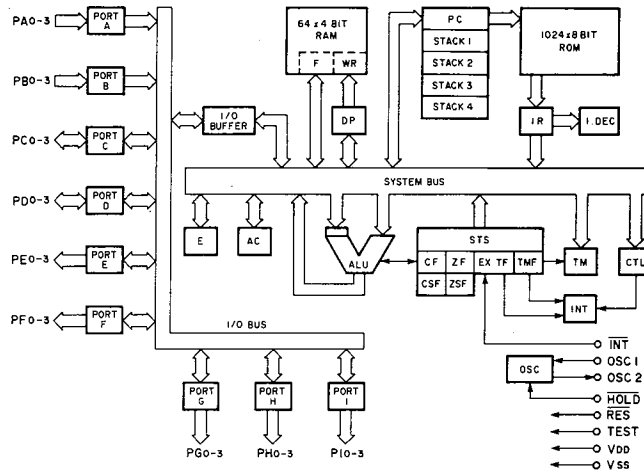
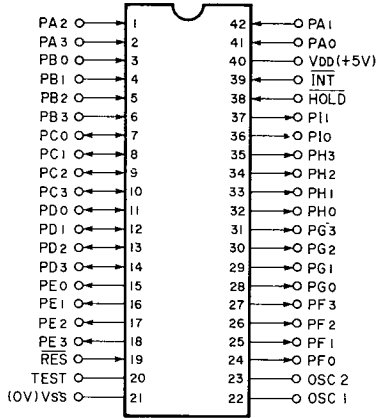
To stabilize operation of the amplifier, turn On the power in the no-signal state and wait for two minutes before the adjustment.

Adjust VR201 (L ch) and VR202 (R ch) so that the voltage across test pin terminals of TP1 (L ch) and TP2 (R ch) becomes DC1.5mV ± 0.3mV.



IC DATA

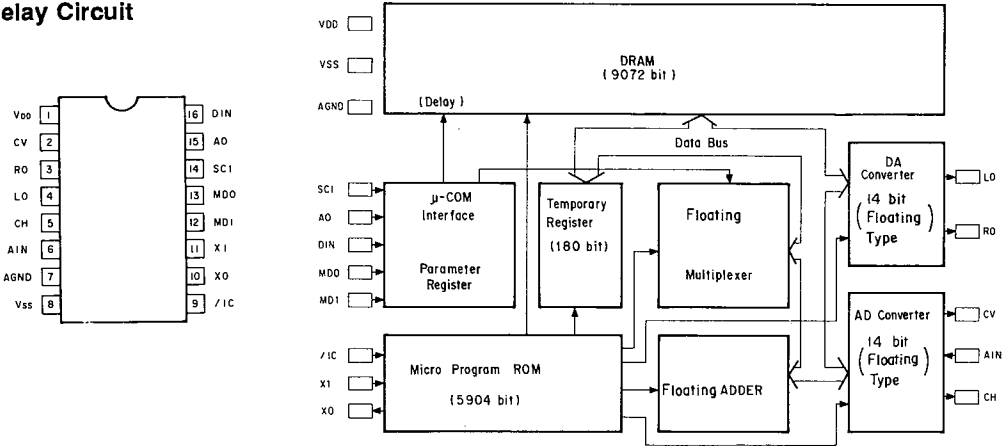
IC10 : LC6505C-4277
4 bit μ -COM



AVX-500

Pin No.	NAME	I/O	FUNCTION
1	PA ₂	I	Not used (GND)
2	PA ₃	I	H level (TAPE MONITOR)
3	PB ₀	I	K ₁ } K ₂ } K ₃ } K ₄ } Key input (H: ON)
4	PB ₁	I	
5	PB ₂	I	
6	PB ₃	I	
7	PC ₀	I/O	D ₁ } D ₂ } D ₃ } Key scan signal (H: Active)
8	PC ₁	I/O	
9	PC ₂	I/O	
10	PC ₃	I/O	PLO PHONO PLAY/CUT Control signal
11	PD ₀	I/O	Not used
12	PD ₁	I/O	CD ₀ } CD ₁ } CD ₂ } CD control signal (Not used)
13	PD ₂	I/O	
14	PD ₃	I/O	
15	PE ₀	O	TP ₀ } TP ₁ } TP ₂ } TP ₃ } Deck control signal
16	PE ₁	O	
17	PE ₂	O	
18	PE ₃	O	
19	RES	I	Reset input
20	TEST	-	LSI test terminal (GND)
21	V _{SS}	-	GND
22	OSC ₁	I	} μ -COM clock circuit 400kHz
23	OSC ₂	O	
24	PF ₀	O	PHONO } CD } TUNER } VDP } TAPE } VCR 1 } VCR 2 } Function control (H: ON, L: OFF)
25	PF ₁	O	
26	PF ₂	O	
27	PF ₃	O	
28	PG ₀	O	
29	PG ₁	O	
30	PG ₂	O	TU ₂ } TU ₁ } Tuner control signal
31	PG ₃	O	
32	PH ₀	O	
33	PH ₁	O	AMUTE Audio Muting control signal (L: Active), Not used
34	PH ₂	O	
35	PH ₃	O	
36	PI ₀	O	MUTE Muting control signal (L: Active)
37	PI ₁	O	
38	HOLD	I	μ -COM Back up control (L: Back up, H: Active)
39	INT	I	+5V
40	V _{DD}	-	+5V
41	PA ₀	I	Remote control Data input
42	PA ₁	I	Power ON/OFF back up (H: Back up, L: Ever GN)

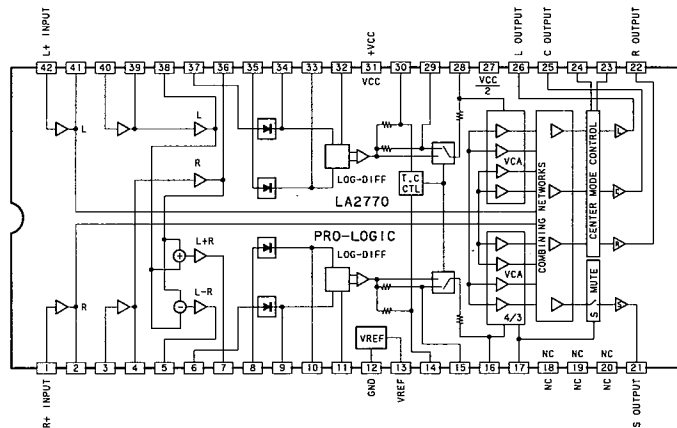
IC605 : YM3428
Digital Delay Circuit



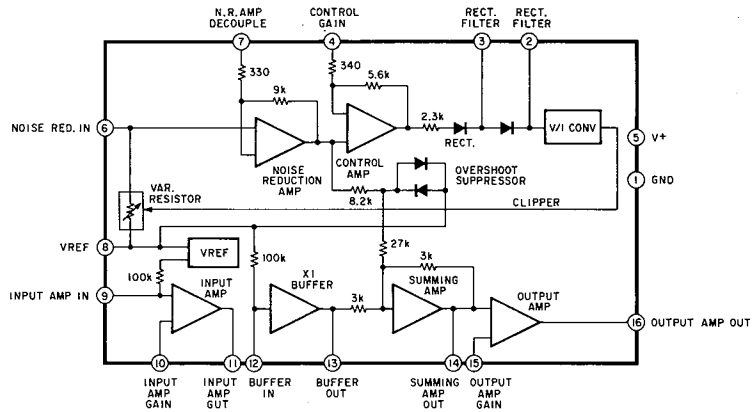
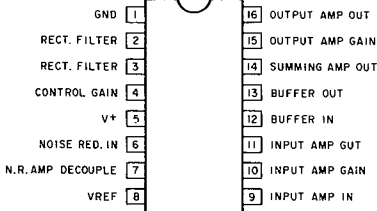
Pin No.	Name	I/O	Function
1	VDD	—	+5V Power Supply Terminal
2	CV	0	Reference Voltage (+2.5V) Output Terminal for A/D Conversion use
3	RO	0	D/A Conversion Analog Signal Output Terminal for R-ch use
4	LO	0	D/A Conversion Analog Signal Output Terminal for L-ch use
5	CH	0	Condensor Externally Attached Terminal 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	XO	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.

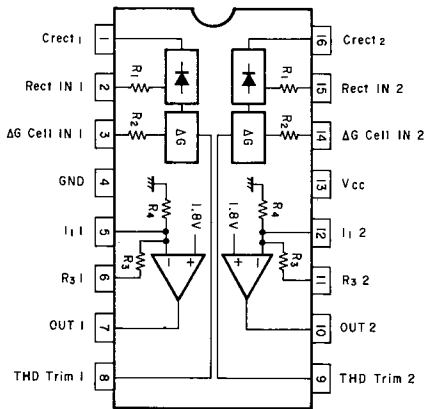
IC214 : LA2770
Dolby Pro-Logic



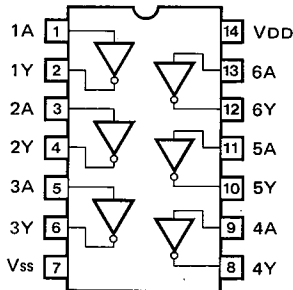
IC607 : LA2730
Dolby Encoder / Decoder



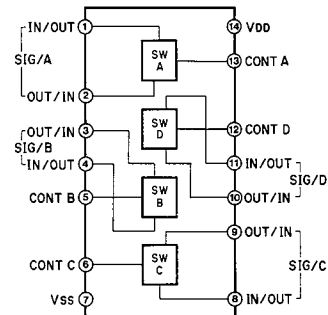
IC604 : μPC1571C
Compressor



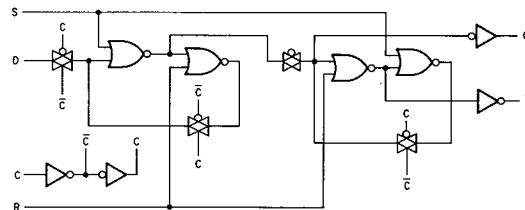
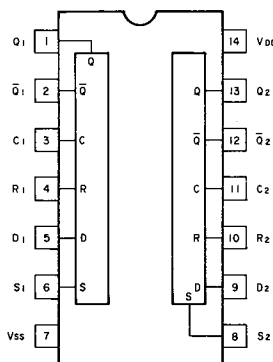
IC215 : TC4069UBP
Hex Inverter



IC3~7 : μPD4066BC
IC203, 609 : LC4066B or BU4066B
Quad Bilateral Switch



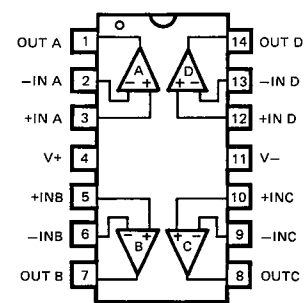
IC218 : HD14013B
Dual "D" Flip-Flop with Set / Reset Capability



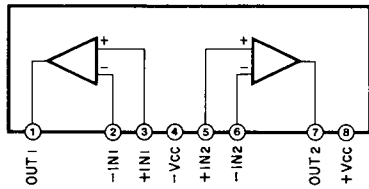
Input				Output	
Clock*	Data	Reset	Set	Q	Q̄
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	Q	Q̄
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

H: High Level
L: Low Level
X: Either H or L
*: Level Change

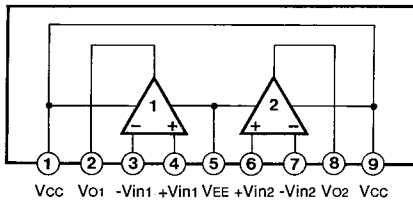
IC216 : μPC4074C
4-Channel Ope-amp



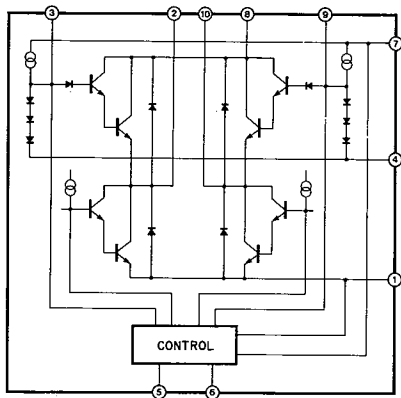
IC1 : BA15218N or M5218LV
 IC202, 208 : M5218AL
 Dual Ope-amp



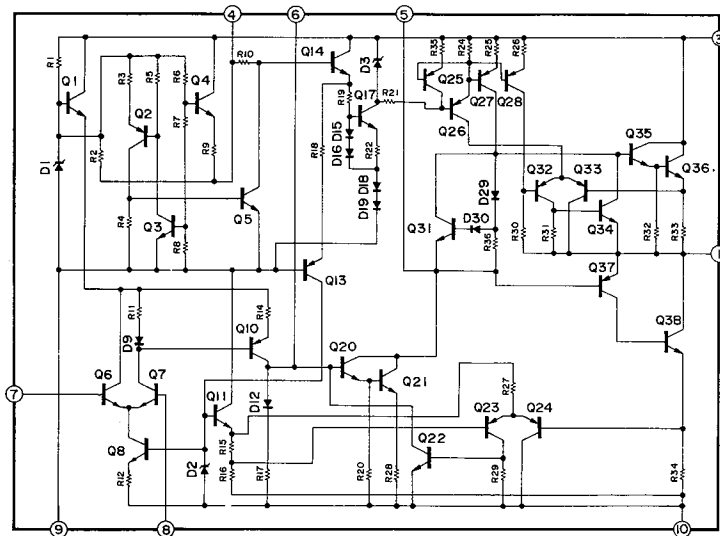
IC201 : μ PC4570HA
 IC2, 209, 210, 601-603, 606 : NJM4558S
 Dual Ope-amp



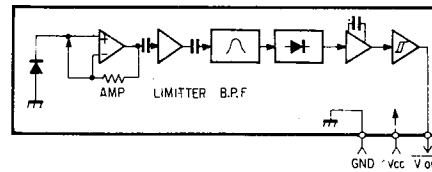
IC608 : BA6229
 Motor Driver



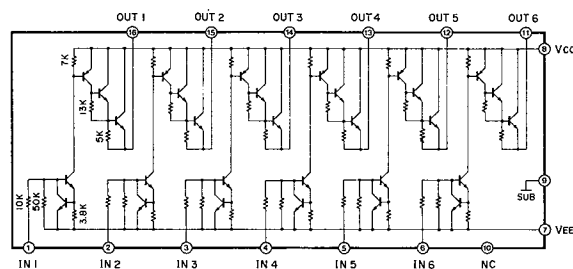
IC211~213 : μ PC1188H
 Power Amp



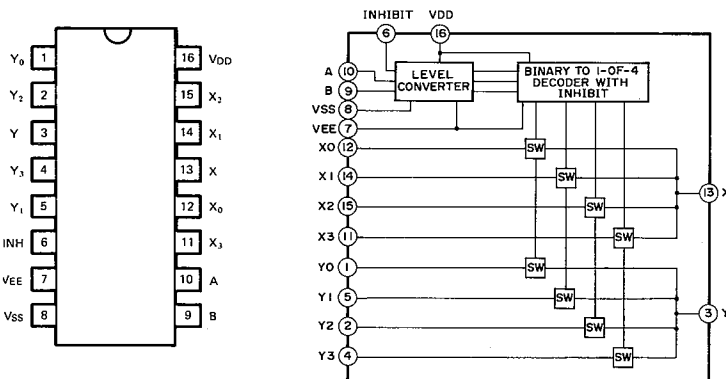
U1 : GP1U521Y
 Remote Control Receptor



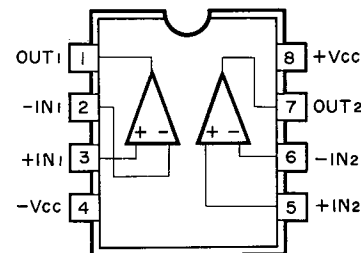
IC11 : LB1294
 LED Driver



IC213 : μ PD4052BC
 Differential 4-Channel Multiplexer / Demultiplexer

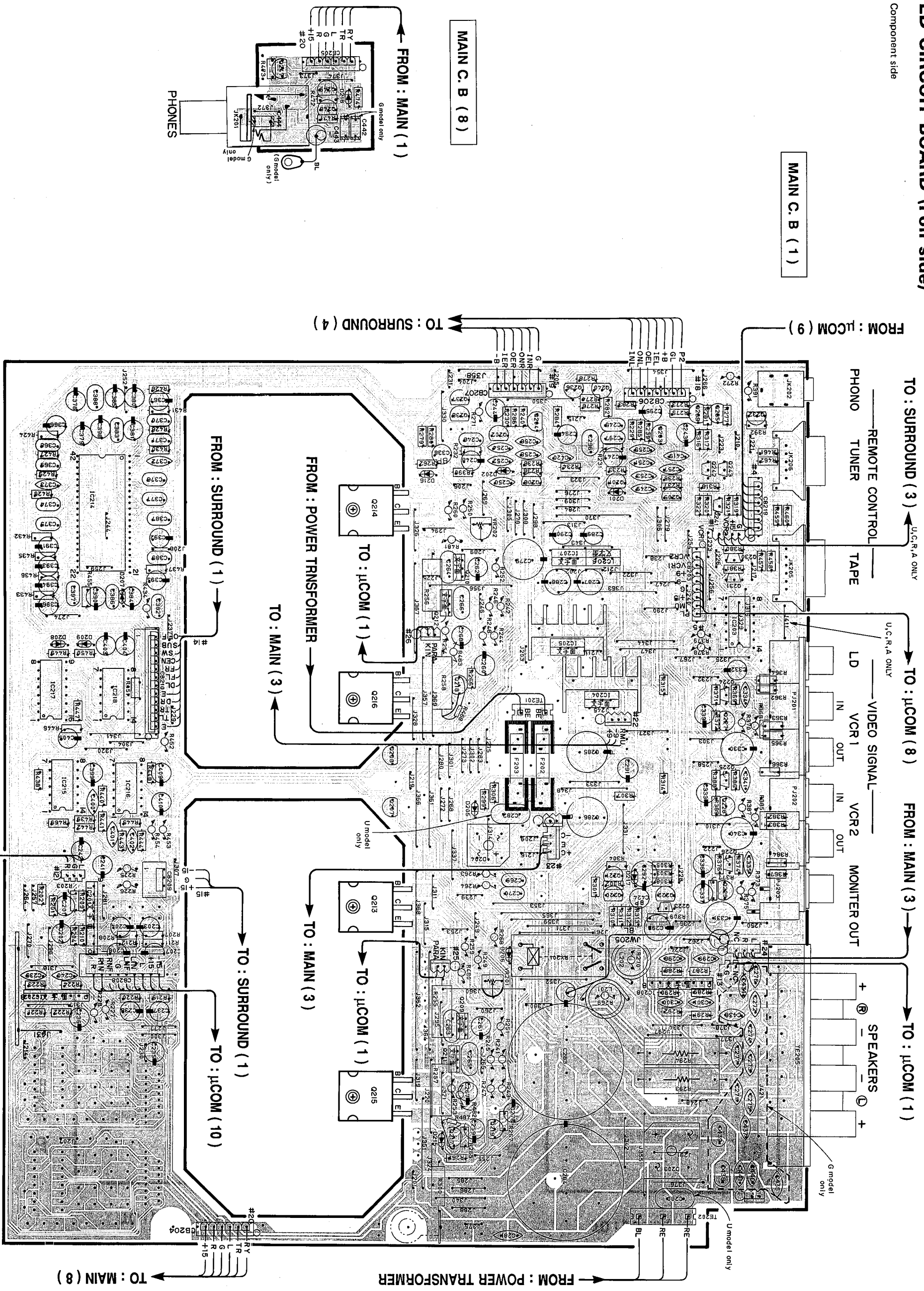


IC610 : JRC4558DV
 Dual Ope-amp



PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side



MAIN C. B (1)

MAIN C. B (8)

FROM : MAIN (1)

PHONES

TO : SURROUND (3)

PHONO TUNER

TAPE

VIDEO SIGNAL

MONITOR OUT

SPEAKERS

TO : SURROUND (4)

FROM : POWER TRANSFORMER

TO : MAIN (3)

TO : MAIN (3)

FROM : SURROUND (1)

TO : SURROUND (1)

TO : SURROUND (1)

FROM : SURROUND (2)

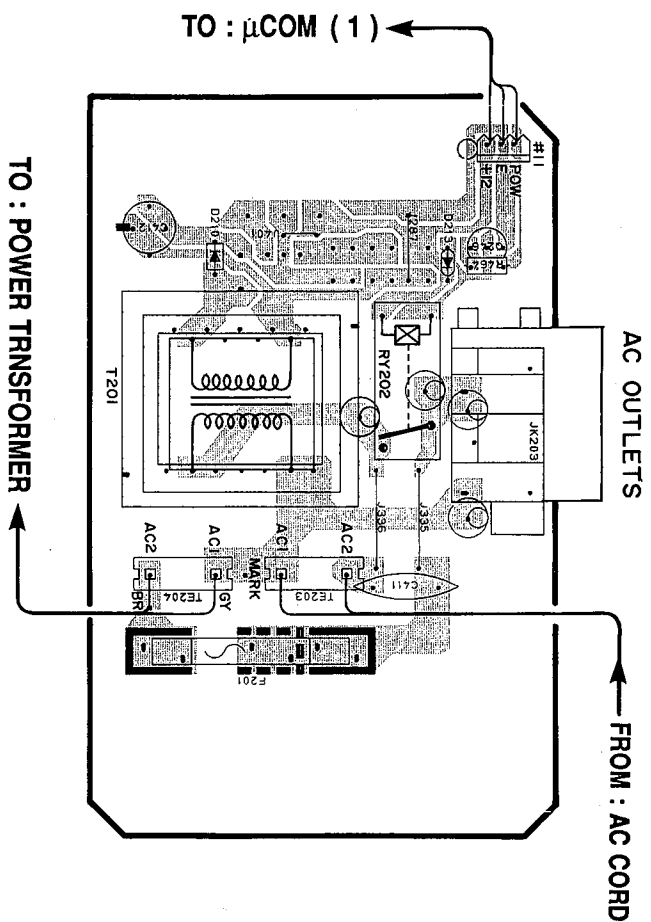
TO : MAIN (8)

PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

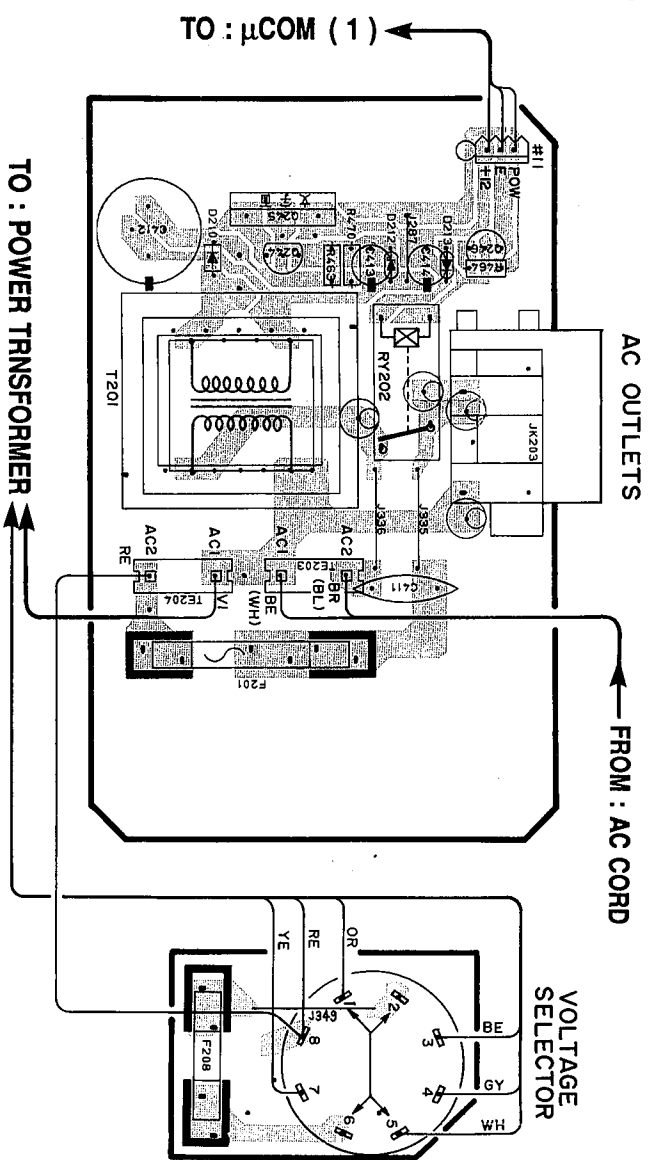
MAIN C. B (2)

U. C models



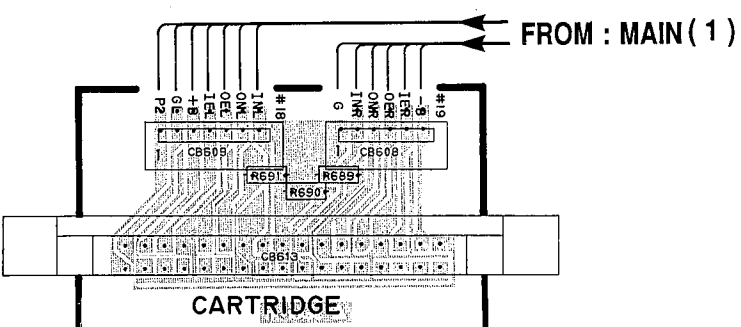
MAIN C. B (2)

R model



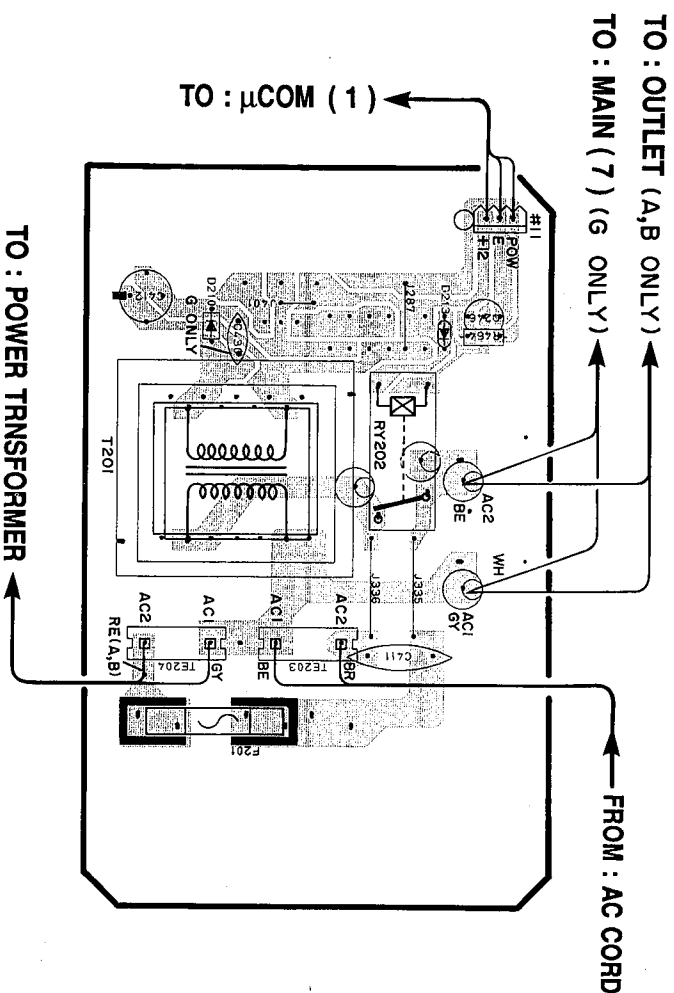
MAIN C. B (6)

SURROUND C. B (4)



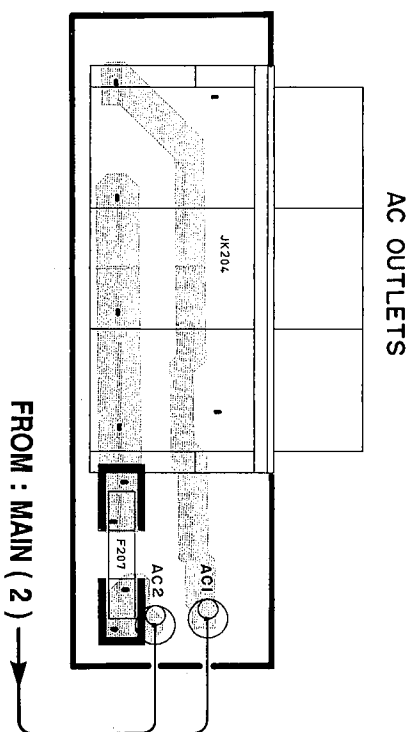
MAIN C. B (2)

A. B. G models

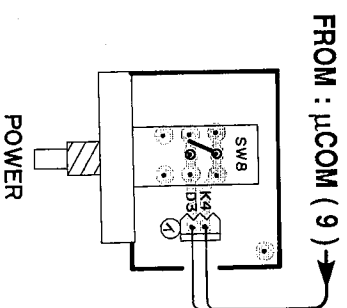


μ-COM C. B (7)

G model only

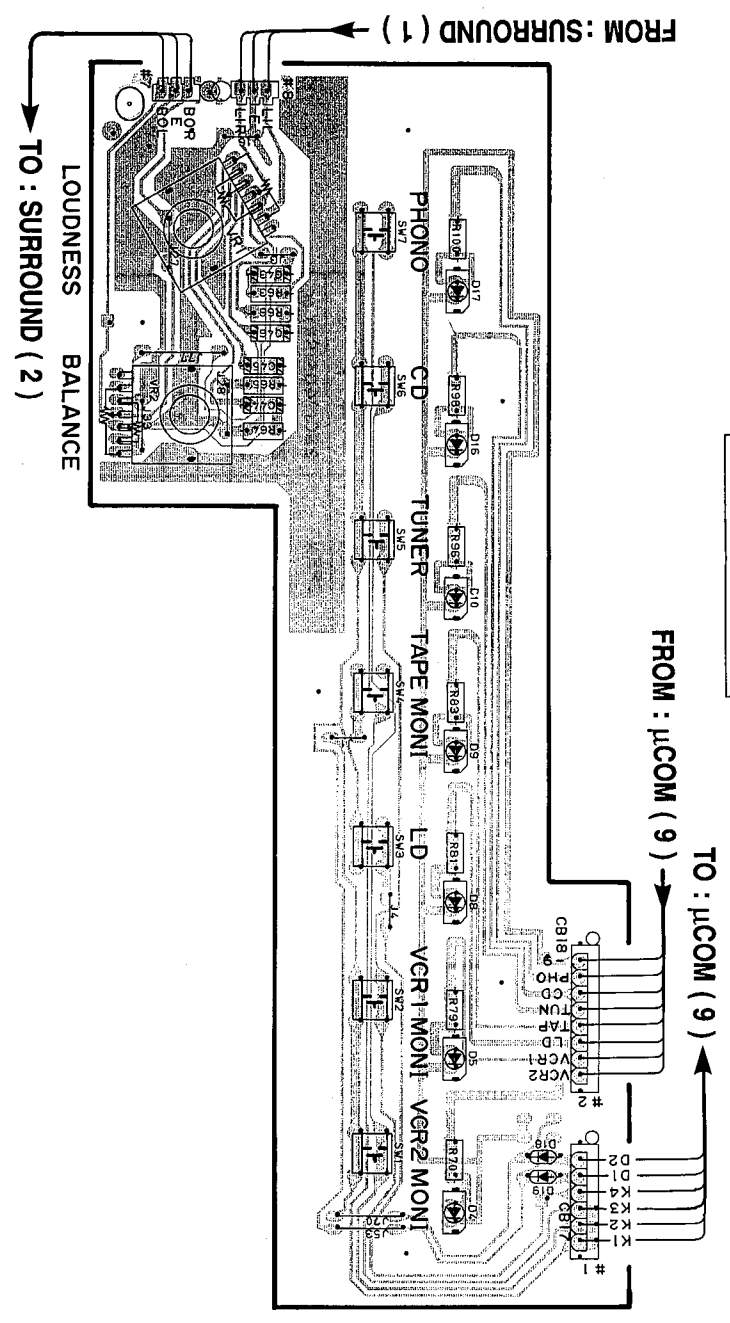


μ-COM C. B (8)



PRINTED CIRCUIT BOARD (Foil side)

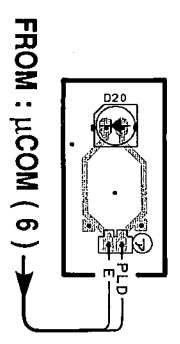
Note) 文字面 : Component side



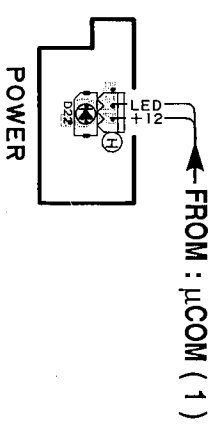
μ-COM C. B (2)

μ-COM C. B (5)

VOLUME

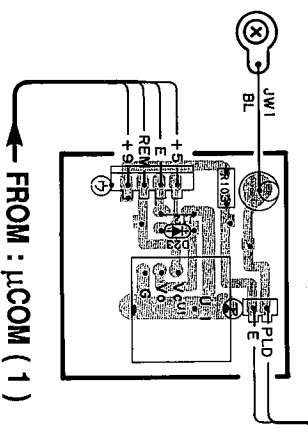


μ-COM C. B (7)
G model only



μ-COM C. B (6)

TO : μCOM (5)

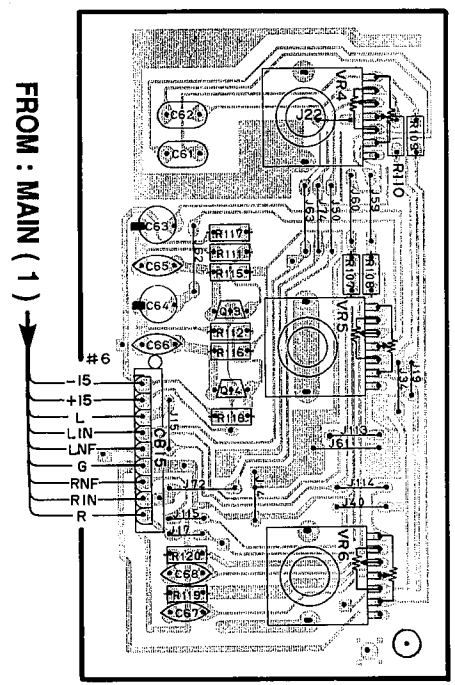


BASS

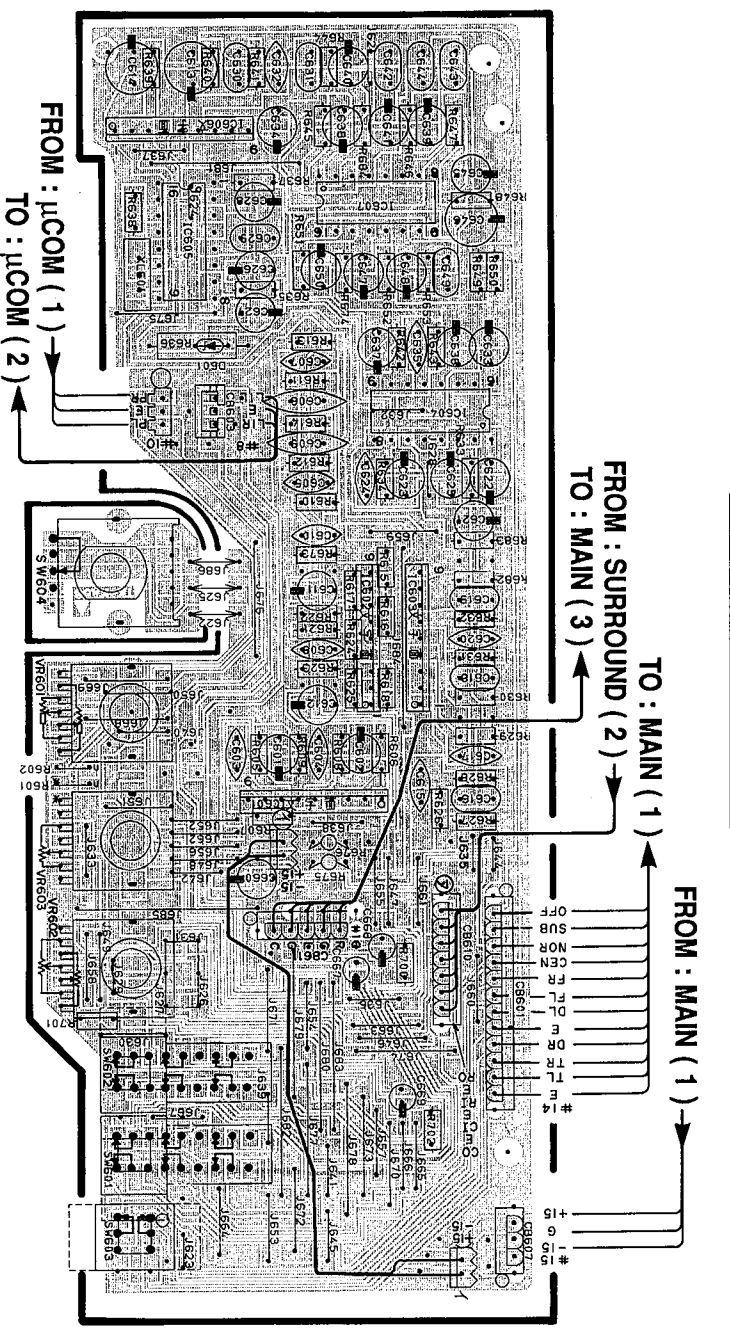
MID

TREBLE

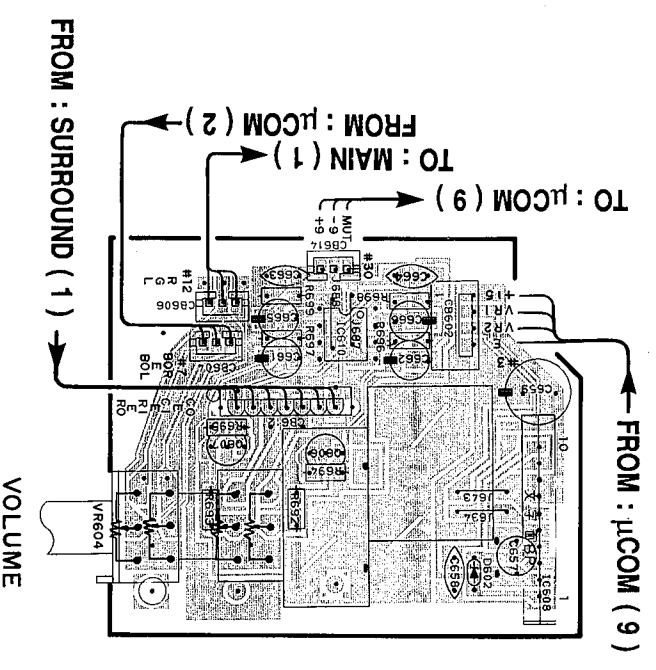
μ-COM C. B (10)



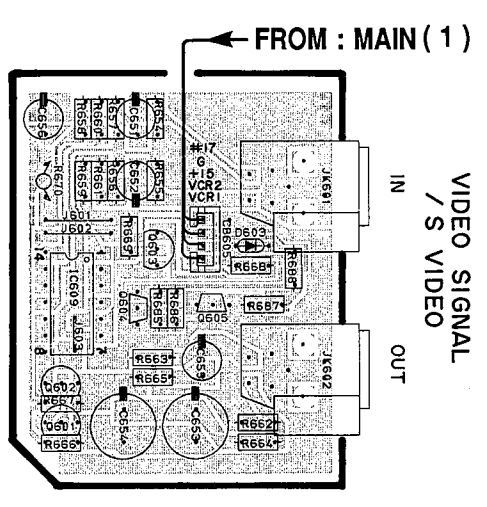
SURROUND C. B (1)



SURROUND C. B (2)

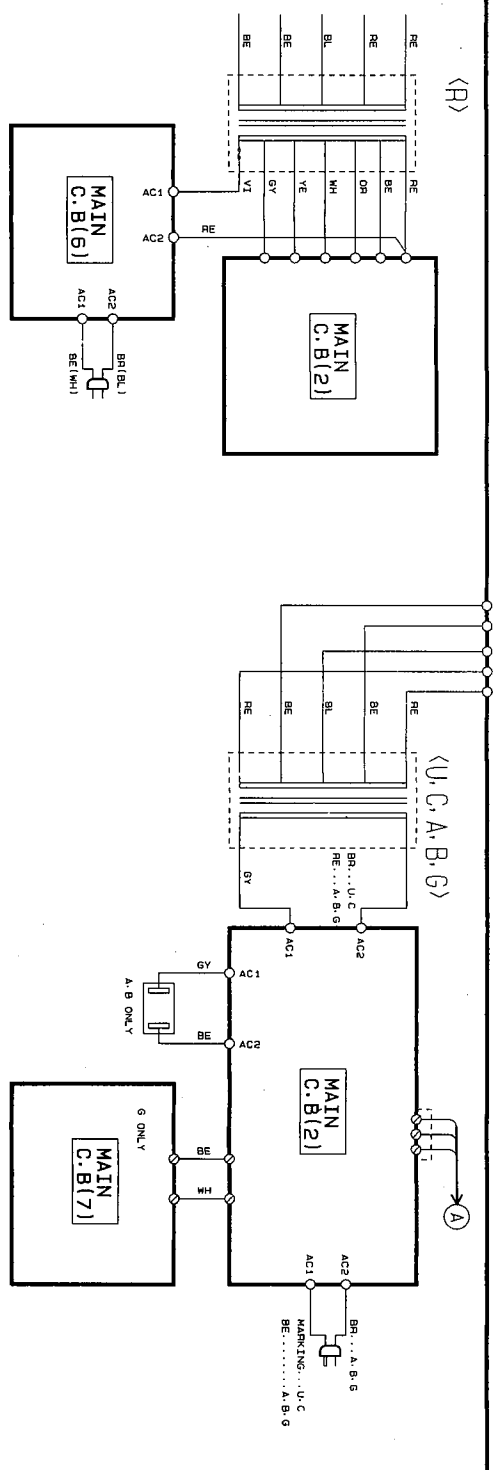
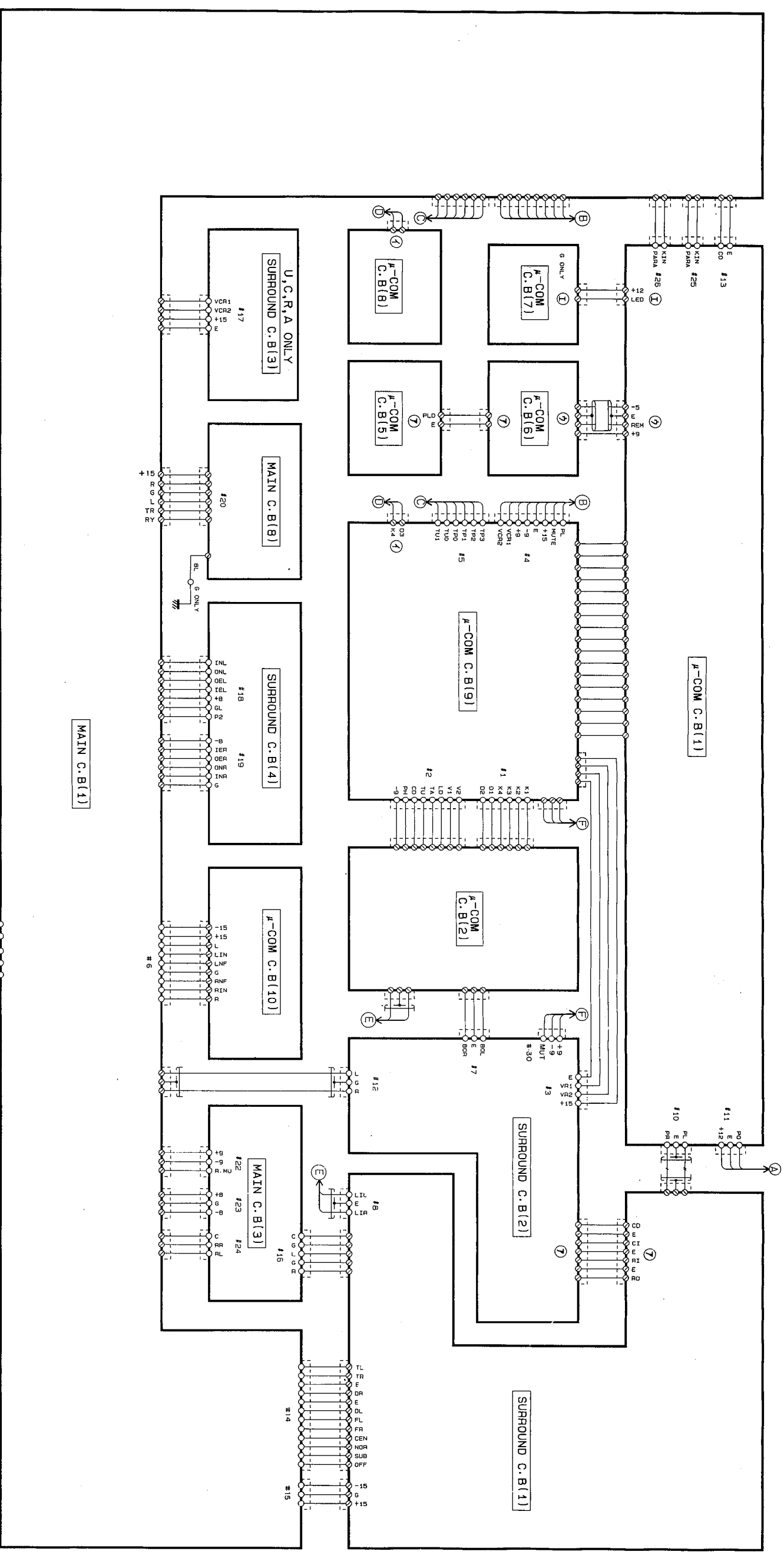


SURROUND C. B (3)
U, C, R, A models only



CENTER INPUT BAL CENTER REAR SURROUND TEST
MODE MODE MODE MODE
ON PRO ON
OFF NATURAL OFF

■ INTERCONNECT WIRING DIAGRAM



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. 41.

Ref. NO.	Part No.	Description	Quantity	Part Name	Remarks	Markets	Notes
	V1641300	MAIN CIRCUIT BOARD		メインボード		U	
	V1641400	MAIN CIRCUIT BOARD		メインボード		G	
	V1641500	MAIN CIRCUIT BOARD		メインボード		R	
	V1641600	MAIN CIRCUIT BOARD		メインボード		A	
	V1004100	MAIN CIRCUIT BOARD		メインボード		B	
	V1641700	MAIN CIRCUIT BOARD		メインボード		G	
	FA153100	MYLAR FILM CAP	1000pF	マイラーコン	C245, 246, 296, 297		
	FA153680	MYLAR FILM CAP	6800pF	マイラーコン	C382, 383		
	FA154470	MYLAR FILM CAP	0.047uF	マイラーコン	C296, 270		
	FA155100	MYLAR FILM CAP	0.1uF	マイラーコン	C368-371		
	FA155150	MYLAR FILM CAP	0.15uF	マイラーコン	C376, 377		
	FA155220	MYLAR FILM CAP	0.22uF	マイラーコン	C386-389		
	FA155330	MYLAR FILM CAP	0.33uF	マイラーコン	C374, 375		
	FA155470	MYLAR FILM CAP	0.47uF	マイラーコン	C397		
	FA155470	MYLAR FILM CAP	0.47uF	マイラーコン	C438, 439		
	UT452100	POLYPROPYLENE FILM CAP	100pF	P.Pコン	C263-266		
	UT454100	POLYPROPYLENE FILM CAP	0.01uF	P.Pコン	C280, 282		U, C, R, A, B
	VG278400	CERAMIC CAP	220pF	円筒セラコン	C431-433		
	VF467300	CERAMIC CAP	0.01uF	円筒セラコン	C442, 443		G
	VG280100	CERAMIC CAP	0.022uF	円筒セラコン	C444		G
	FG211100	CERAMIC CAP	10pF	セラコン	C255-258		
	FG211100	CERAMIC CAP	10pF	セラコン	C419, 420		U, C, R, A, B
	FG211220	CERAMIC CAP	22pF	セラコン	C419, 420		G
	FG211150	CERAMIC CAP	15pF	セラコン	C239, 240, 251-254		
	FG211220	CERAMIC CAP	22pF	セラコン	C334, 335, 341, 415-417		
	FG212680	CERAMIC CAP	680pF	セラコン	C344, 345, 360		
	FG213100	CERAMIC CAP	1000pF	セラコン	C350, 351, 363		
	FG213150	CERAMIC CAP	1500pF	セラコン	C298, 299		U, C, R, A, B
	FG212560	CERAMIC CAP	560pF	セラコン	C298, 299		G
	FG212220	CERAMIC CAP	220pF	セラコン	C445-447		G
	FG213220	CERAMIC CAP	2200pF	セラコン	C372, 373		
	FG213100	CERAMIC CAP	1000pF	セラコン	C448-450		G
	FG213150	CERAMIC CAP	1500pF	セラコン	C249, 250		
	FG413220	CERAMIC CAP	2200pF	セラコン	C346, 347, 361		
	FG413220	CERAMIC CAP	2200pF	セラコン	C300, 301		G
	FG244100	CERAMIC CAP	0.01uF	セラコン	C400-402		
	FG244100	CERAMIC CAP	0.01uF	セラコン	C275, 276, 434, 435		G
	FG244220	CERAMIC CAP	0.022uF	セラコン	C271-274, 297, 436, 437		G
	FG244220	CERAMIC CAP	0.022uF	セラコン	C275, 276		U, C, R, A, B
	FG244470	CERAMIC CAP	0.047uF	セラコン	C430, 440, 441		G
	UH218220	ELECTROLYTIC CAP	220uF	ケミコン	C352, 353, 364		
	UH028100	ELECTROLYTIC CAP	100uF	ケミコン	C292		
	UH137100	ELECTROLYTIC CAP	10uF	ケミコン	C336, 337		
	UH137100	ELECTROLYTIC CAP	10uF	ケミコン	C203, 204, 237, 238, 342, 343		
	UH137100	ELECTROLYTIC CAP	10uF	ケミコン	C414		R
	UH237330	ELECTROLYTIC CAP	33uF	ケミコン	C398, 293		
	UH237470	ELECTROLYTIC CAP	47uF	ケミコン	C241, 242, 332, 333, 339, 385, 391		
	UH237470	ELECTROLYTIC CAP	47uF	ケミコン	C413		R

*New Parts (新規部品)

ラック: Japan only

Ref. NO.	Part No.	Description	Quantity	Part Name	Remarks	Markets	Notes
	UH238220	ELECTROLYTIC CAP	220uF	ケミコン	C384		
	UH138100	ELECTROLYTIC CAP	100uF	ケミコン	C356		
	UH147330	ELECTROLYTIC CAP	33uF	B.P.ケミコン	C424		
	UH147100	ELECTROLYTIC CAP	10uF	ケミコン	C207, 208, 366, 367, 405, 393-396		
	UH147220	ELECTROLYTIC CAP	22uF	ケミコン	C243, 244, 287-290, 348, 349, 362		
	UH148100	ELECTROLYTIC CAP	100uF	ケミコン	C294, 295		U, C, A, B, G
	UH148470	ELECTROLYTIC CAP	470uF	ケミコン	C412		
	UH878470	ELECTROLYTIC CAP	470uF	ケミコン	C412		R
	UH157470	ELECTROLYTIC CAP	47uF	ケミコン	C259-262		
	UH265100	ELECTROLYTIC CAP	0.1uF	ケミコン	C291		
	UH166100	ELECTROLYTIC CAP	1uF	ケミコン	C278, 399, 409, 410		
	UH166220	ELECTROLYTIC CAP	2.2uF	ケミコン	C403, 404		
	UH166330	ELECTROLYTIC CAP	3.3uF	ケミコン	C201, 202		
	UH166470	ELECTROLYTIC CAP	4.7uF	ケミコン	C235, 236, 378-381, 390, 392		
	UH167100	ELECTROLYTIC CAP	10uF	ケミコン	C354, 355		
	VG291100	ELECTROLYTIC CAP	33uF	ケミコン	C247, 248, 267, 288, 357-359		
	UH129100	ELECTROLYTIC CAP	1000uF	ケミコン	C330, 331, 340		
	UH888220	ELECTROLYTIC CAP	220uF	ケミコン	C279		
	VB681400	ELECTROLYTIC CAP	3300uF	ケミコン	C285, 286		
	V1661000	ELECTROLYTIC CAP	10000uF	ケミコン	C283, 284		
	UH337100	ELECTROLYTIC CAP	10uF	B.P.ケミコン	C338		
	F1514100	CERAMIC CAP	0.01uF	スパーセラコン	C411		
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF	半導体セラコン	C281		
	XG809A00	SUB TRANSFORMER		サフトランス	T201		U, C
	XCO82001	SUB TRANSFORMER		サフトランス	T201		R
	XCO84001	SUB TRANSFORMER		サフトランス	T201		A, B, G
	GH900470	COIL	R2-001	コイル	L201, 202		
	HH453220	FLAME PROOF CARBON RESISTOR	2.2Ω	不燃化カーボット抵抗	R291, 480-483		
	HH453470	FLAME PROOF CARBON RESISTOR	4.7Ω	不燃化カーボット抵抗	R263, 264, 269, 270		
	HH454100	FLAME PROOF CARBON RESISTOR	10Ω	不燃化カーボット抵抗	R271, 272, 407, 408, 419, 225, 226		
	HH454150	FLAME PROOF CARBON RESISTOR	15Ω	不燃化カーボット抵抗	R268		
	HH454330	FLAME PROOF CARBON RESISTOR	33Ω	不燃化カーボット抵抗	R378, 379		
	HH454680	FLAME PROOF CARBON RESISTOR	68Ω	不燃化カーボット抵抗	R434		
	HH455100	FLAME PROOF CARBON RESISTOR	100Ω	不燃化カーボット抵抗	R227, 228		
	HH455150	FLAME PROOF CARBON RESISTOR	150Ω	不燃化カーボット抵抗	R453, 454		
	HH455220	FLAME PROOF CARBON RESISTOR	220Ω	不燃化カーボット抵抗	R452		
	HH455270	FLAME PROOF CARBON RESISTOR	270Ω	不燃化カーボット抵抗	R370, 375, 387		
	HH455330	FLAME PROOF CARBON RESISTOR	330Ω	不燃化カーボット抵抗	R253, 254, 368, 373, 385		
	HH455820	FLAME PROOF CARBON RESISTOR	820Ω	不燃化カーボット抵抗	R251, 252		
	HH456120	FLAME PROOF CARBON RESISTOR	1.2KΩ	不燃化カーボット抵抗	R259, 260		
	HH456330	FLAME PROOF CARBON RESISTOR	3.3KΩ	不燃化カーボット抵抗	R249, 250		
	HH457120	FLAME PROOF CARBON RESISTOR	12KΩ	不燃化カーボット抵抗	R241-248		
	VH004000	METAL FILM RESISTOR	470Ω	金属皮膜抵抗	R291, 292		
	VH004800	METAL FILM RESISTOR	1KΩ	金属皮膜抵抗	R289, 290		
	UH576360	METAL FILM RESISTOR	3.6KΩ	金属皮膜抵抗	R287, 288		

*New Parts (新規部品)

ラック: Japan only

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	HL325560	METAL OXIDE FILM RESISTOR	560Ω	2W	酸化金属皮膜抵抗	R300	A,B,G
	HL326120	METAL OXIDE RESISTOR	1.2KΩ	2W	酸化金属被膜抵抗	R300	U,C,R
	VA872100	METAL OXIDE RESISTOR	0.22Ω	3W	酸化金属被膜抵抗	R255-258	
	Vi470300	WIRE WOUND RESISTOR	0.2Ω	3W	セメント抵抗	R293,294	
	XB449A00	IC	AN7815F	15V	電源 I C	IC204	
*	XB467A00	IC	AN79M15F		電源 I C	IC205	
	XF635A00	IC	AN78M09F		電源 I C	IC206	
	XF637A00	IC	AN79M09F		電源 I C	IC207	
	XH471A00	IC	M5218AL		I C	IC202,208	
	XB247301	IC	UPC4570HA		I C	IC201	
	iG076800	IC	NJM4558S		I C	IC209,210	
	iG102700	IC	UPC1188H		I C	IC211-213	
	XE473001	IC	UPC4074C		I C	IC216	
	XG497A00	IC	LA2770		I C	IC214	
	XD148001	IC	BU4066B		I C	IC203	
	iG001720	IC	TC4069UBP		I C	IC215	
	iG055800	IC	HD14013B		I C	IC218	
	XA070A00	IC	UPD4052BC		I C	IC217	
	VD506000	RELAY	AC DG12D1-0(M)		リレー	RY202	
	KC001940	RELAY	DC DH24D2-0T(M)		リレー	RY201	
	KB001520	FUSE	7A	125V	ヒューズ	F201	U,C
	KB001300	FUSE	T7A	250V	ヒューズ	F201	R
	KB000690	FUSE	2.5A	250V	ヒューズ	F201	A,B,G
	KB003150	FUSE	2.5A	250V	ヒューズ	F204-206	U,C,R
	KB003080	FUSE	T2.5A	250V	ヒューズ	F204-206	A,B,G
*	KB003200	FUSE	5A	125V	ヒューズ	F202,203	U,C,R
	KB003100	FUSE	T4A	250V	ヒューズ	F202,203	A,B,G
	KB003080	FUSE	T2.5A	250V	ヒューズ	F207	G
	KB003090	FUSE	T3.15A	250V	ヒューズ	F208	R
	LA002000	LAPPING TERMINAL	2P		ラッピング端子	TE201	
	LA002320	LAPPING TERMINAL	3P		ラッピング端子	TE202	
	LA002140	LAPPING TERMINAL	2P		ラッピング端子	TE203,204	
	VG741700	SPEAKER TERMINAL	T5980		スピーカターミナル	TE205	U,C,R,A,B
	VG741800	SPEAKER TERMINAL	T5974		スピーカターミナル	TE205	G
	Vi683800	PIN JACK	T6312-CAAD		ピンジャック	PJ203	
*	Vi683900	PIN JACK	T6125-BAAE		ピンジャック	PJ201	
	VG707800	PIN JACK	T6165-BAAE		ピンジャック	PJ202	
*	Vi661600	PHONES JACK	M1658-A0AA		ヘッドホンジャック	JK201	
	VE116900	MINI JACK	EX362GL		ホーンコネクタ	JK202	
	LB500710	SOCKET	5P		S T コネクターソケット	JK206	
	LB608390	SOCKET	6P		S T コネクターソケット	JK205	
*	Vi327500	AC OUTLET			AC アウトレット	JK203	U,C,R
*	Vi283100	AC OUTLET	YKE31-0092		AC アウトレット	JK204	G
	VD004600	BASE PIN	3P		ベースピン	CB214	
	LB918030	BASE PIN	3P		ベースツキポスト	CB215,216	
	VB861200	PRE-SET POTENTIOMETER	B2.2KΩ		半固定 V R	VR201,202	
	iA101521	TRANSISTOR	2SA1015 Y		トランジスタ	Q224-226,247	
	iA097000	TRANSISTOR	2SA970 GR,BL		トランジスタ	Q219	
	VA854700	TRANSISTOR	2SA1370 D,E,F		トランジスタ	Q205,206	
	iC1815C0	TRANSISTOR	2SC1815 Y		トランジスタ	Q227-229,246	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q223,241-243	
	iC224000	TRANSISTOR	2SC2240 GR,BL	トランジスタ	Q201-204,207,208,217, 218,220,221	
	iC224000	TRANSISTOR	2SC2240 GR,BL	トランジスタ	Q244	R
	iC287820	TRANSISTOR	2SC2878 A,B	トランジスタ	Q224,235-240,233,248,	
	VE919600	TRANSISTOR	2SC2925 T	トランジスタ	249 Q232	
	VB222700	TRANSISTOR	2SD1485 P,Q,R	トランジスタ	Q245	R
	iX608510	TRANSISTOR	2SA1358	トランジスタ	Q211,212	△
	iX608520	TRANSISTOR	2SC3421	トランジスタ	Q209,210	△
	VG722000	DIGITAL TRANSISTOR	DTC144ES	デジタル	Q230,231	
	iF004600	DIODE	1SS133 T-77	ダイオード	D205,208,209,213,217, 218	
	VC398400	DIODE	MA185	ダイオード	D201,202,206,215,216	
	VH770800	DIODE	1SR139-100	ダイオード	D210	△
	iH001160	DIODE BRIDGE	4D4B41 4A 200V	ダイオードブリッジ	D203	△
	iH000990	DIODE BRIDGE	2B4B41 2A 100V	ダイオードブリッジ	D204	△
	VG440200	ZENER DIODE	MTZJ12B 12V	ツェナーダイオード	D207	
	VG440300	ZENER DIODE	MTZJ12C 12V	ツェナーダイオード	D212	R
	LB201880	FUSE HOLDER PIN	PC-FH1	ヒューズホルダピン		△
	BA092970	RADIATOR		放熱器		
	BA092970	RADIATOR		放熱器		A,B,G
	VE999300	HEAT SINK	OSH2440-SP	ヒートシンク		U,C,R
	BB066290	WASHER,GROUND		アースワッシャー		
	Vi983700	RADIATOR	IC-1625-ST	ラジエータ		
	ED330086	BINDING HEAD SCREW	3x8 FCM3-BL	バインドコネジ		
	EZ001350	CUP SCREW	3x14 FCRM3-BL	カップネジ		
	ED330146	BINDING HEAD SCREW	3x14 ZMC2-BL	バインドコネジ		
	VA821500	RADIATOR		ラジエーター		
	Vi913500	SHIELD PLATE		シールドプレート		
	V1642600	SURROUND CIRCUIT BOARD		サラウンドシート		U,C,R,A
	V1685500	SURROUND CIRCUIT BOARD		サラウンドシート		B,G
	UA252680	MYLAR FILM CAP	680pF 50V	マイラーコン	C629	
	FA153100	MYLAR FILM CAP	1000pF 50V	マイラーコン	C630	
	FA153120	MYLAR FILM CAP	1200pF 50V	マイラーコン	C618	
	FA153270	MYLAR FILM CAP	2700pF 50V	マイラーコン	C631	
	FA153330	MYLAR FILM CAP	3300pF 50V	マイラーコン	C616,619	
	FA153470	MYLAR FILM CAP	4700pF 50V	マイラーコン	C643	
	FA153560	MYLAR FILM CAP	5600pF 50V	マイラーコン	C649	
	FA154270	MYLAR FILM CAP	0.027uF 50V	マイラーコン	C644	
	FA154330	MYLAR FILM CAP	0.033uF 50V	マイラーコン	C642	
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V	半導体セラコン	C663,664	
	FG212100	CERAMIC CAP	100pF 50V	セラコン	C603,604,624,635	
	FG212270	CERAMIC CAP	270pF 50V	セラコン	C632	
	FG212680	CERAMIC CAP	680pF 50V	セラコン	C608,615,617,620	
	FG213560	CERAMIC CAP	5600pF 50V	セラコン	C609	
	FG744330	CERAMIC CAP	0.033uF 50V	セラコン	C610	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C658	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部品名		Remarks	Markets	ランク
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C605,607	
	FG244470	CERAMIC CAP	0.047uF	50V	セラコン	C606	
	UHO28100	ELECTROLYTIC CAP	100uF	10V	ケミコン	C651,652	U,C,R,A
	UH137100	ELECTROLYTIC CAP	10uF	18V	ケミコン	C655,666	
	UH237470	ELECTROLYTIC CAP	47uF	18V	ケミコン	C656	U,C,R,A
	UH138470	ELECTROLYTIC CAP	470uF	16V	ケミコン	C659	
	UH138470	ELECTROLYTIC CAP	470uF	16V	ケミコン	C653,654	U,C,R,A
	UH147100	ELECTROLYTIC CAP	10uF	25V	ケミコン	C655	U,C,R,A
	UH166100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C661,662	
	UM216100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C667-669	
*	UM387220	ELECTROLYTIC CAP	22uF	6.3V	ケミコン	C627	
	UM167470	ELECTROLYTIC CAP	47uF	6.3V	ケミコン	C628	
	UM397100	ELECTROLYTIC CAP	10uF	16V	ケミコン	C601,602,621,625,634,660	
	UM397220	ELECTROLYTIC CAP	22uF	16V	ケミコン	C645	
	VF881700	ELECTROLYTIC CAP	100uF	16V	ケミコン	C613,614,638,646	
	UM415100	ELECTROLYTIC CAP	0.1uF	50V	ケミコン	C640	
	UM215220	ELECTROLYTIC CAP	0.22uF	50V	ケミコン	C622,633	
	UM415330	ELECTROLYTIC CAP	0.33uF	50V	ケミコン	C639	
	UM216100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C611,612,623,626,636,	
	FMI16100	ELECTROLYTIC CAP	1uF	50V	B Pケミコン	637,641,647,648,650	
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω	1/4W	不燃化カーボン抵抗	C657	U,C,R,A
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω	1/4W	不燃化カーボン抵抗	R670	
	HL315270	METAL OXIDE RESISTOR	270Ω	1W	酸化金属被膜抵抗	R675,676	
	HL315270	METAL OXIDE RESISTOR	270Ω	1W	酸化金属被膜抵抗	R636	
	iG076800	IC	NJM4558S		IC	IC601-603,606	
	iG152500	IC	BA6229		IC	IC608	
	iG001390	IC	RC4558D-V		IC	IC610	
	XD386001	IC	LA2730		IC	IC607	
	XE387001	IC	UPC1571C		IC	IC604	
	XD148001	IC	BU4066B		IC	IC609	U,C,R,A
	XE817001	IC	YM3428		IC	IC605	
	Vi686000	ROTARY SWITCH			ロータリーSW	SW604	
	Vi136600	PUSH SWITCH			プッシュSW	SW601,602	
	Vi635600	PUSH SWITCH			プッシュSW	SW603	
	Vi278000	S CONNECTOR ASSY	M1823-A		SコネクターASSY	JK601,602	U,C,R,A
	VD004600	BASE PIN	3P		ベースピン	CB603,604,606,614	
	VD004700	BASE PIN	4P		ベースピン	CB605	U,C,R,A
	VG529900	SOCKET	34P		コネクターソケット	CB613	
	VF071000	CERAMIC RESONATOR	3.5M		セラミック振動子	XL601	
	Vi136700	POTENTIOMETER	BH10KΩ		二連ロータリーVR	VR601	
	Vi136800	POTENTIOMETER	B20KΩ		二連ロータリーVR	VR602,603	
	VJ118000	POTENTIOMETER	Y100KΩ		ロータリーVR	VR604	
	iC287820	TRANSISTOR	2SC2878 A,B		トランジスタ	Q606,607	
	iA101521	TRANSISTOR	2SA1015 Y		トランジスタ	Q601,602	U,C,R,A
	iC287820	TRANSISTOR	2SC2878 A,B		トランジスタ	Q603	U,C,R,A
	iC260320	TRANSISTOR	2SC2603 E,F		トランジスタ	Q604,605	U,C,R,A
	iF004600	DIODE	1SS133 T-77		ダイオード	D603	U,C,R,A
	VG437300	ZENER DIODE	WTZJ5.1A 5.1V		ツェナーダイオード	D601	
	VG437900	ZENER DIODE	WTZJ6.2A 6.2V		ツェナーダイオード	D602	

*New Parts (新規部品)

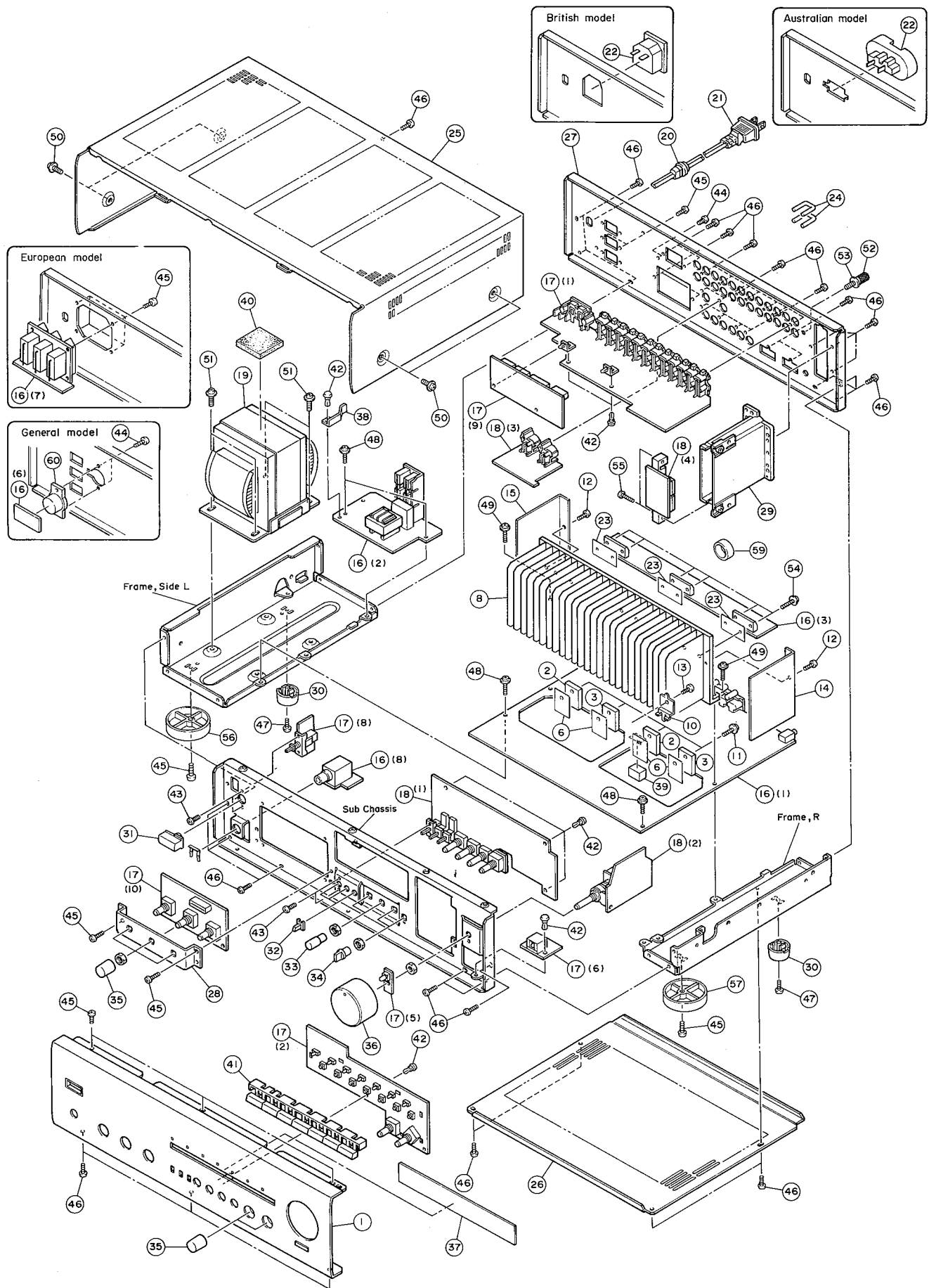
ランク : Japan only

Ref. NO.	PART NO.	Description			部 品 名	Remarks	Markets	ランク
	V1642200	μ-COM CIRCUIT BOARD			マイコンシート		U,C,R,A,B	
	V1642300	μ-COM CIRCUIT BOARD			マイコンシート		G	
	FG413220	CERAMIC CAP	2200pF	50V	セラコン	C65,66		
	FA153270	MYLAR FILM CAP	2700pF	50V	マイラーコン	C29,31		
	FA154100	MYLAR FILM CAP	0.01uF	50V	マイラーコン	C30,31		
	FG244150	CERAMIC CAP	0.015uF	50V	セラコン	C67,68		
	FA154680	MYLAR FILM CAP	0.068uF	50V	マイラーコン	C61,62		
	Ui865150	ELECTROLYTIC CAP	0.15uF	50V	ケミコン	C63,64		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C36,37		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C18,19,22,23,26,27	G	
	FG212220	CERAMIC CAP	220pF	50V	セラコン	C42		
	FG212220	CERAMIC CAP	220pF	50V	セラコン	C2,7,10-17,20,21,24,25,57-60	G	
	FG212220	CERAMIC CAP	220pF	50V	セラコン	C4,5	U,C,R,A,B	
	FG212330	CERAMIC CAP	330pF	50V	セラコン	C4,5	G	
	FG212470	CERAMIC CAP	470pF	50V	セラコン	C41		
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C69,70,81	G	
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C71	G	
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C69	U,C,R,A,B	
	FG244470	CERAMIC CAP	0.044uF	50V	セラコン	C56,80		
	VG279100	CERAMIC CAP	1200pF	16V	円筒セラコン	C43,46		
	Vi101300	CERAMIC CAP	0.047uF	50V	円筒セラコン	C44,45		
	UH117470	ELECTROLYTIC CAP	47uF	6.3V	ケミコン	C3,6		
	UJ119100	ELECTROLYTIC CAP	1000uF	6.3V	ケミコン	C40		
	UH028100	ELECTROLYTIC CAP	100uF	10V	ケミコン	C1,9		
	UH137100	ELECTROLYTIC CAP	10uF	16V	ケミコン	C50		
	UH137330	ELECTROLYTIC CAP	33uF	16V	ケミコン	C49		
	UH147220	ELECTROLYTIC CAP	22uF	25V	ケミコン	C35,38		
	UH066470	ELECTROLYTIC CAP	4.7uF	50V	ケミコン	C28,33,34,39		
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF	25V	半導体セラコン	C53,54		
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω	1/4W	不燃化カーボン抵抗	R39,46		
	Vi660300	RESISTOR ARRAY	100K X4		抵抗アレイ	R58		
	Vi660200	RESISTOR ARRAY	100K X6		抵抗アレイ	R69		
	XG938A00	IC	BA15218N		IC	IC1		
	iG076800	IC	NJM4558S		IC	IC2		
	iG061600	IC	μPD4066BC		IC	IC3-9		
	XA549001	IC	LB1294		IC	IC11		
	XH076A00	IC	LC6505C-4277		IC	IC10		
	VE989900	LIGHT DETECTING MODULE	GP1U521Y		リモコン受光ユニット	U1		
	VE327300	PUSH SWITCH			プッシュSW	SW1-7		
	KA804550	PUSH SWITCH			プッシュスイッチ	SW8		
	LB401030	PIN JACK	T5857-A		ピンコネクタ	PJ4,5		
	LB401040	PIN JACK	T5858-A		ピンコネクタ	PJ7		
	LB401050	PIN JACK	T5859-A		ピンコネクタ	PJ1		
	LB606090	PIN JACK	T5916-A		ピンコネクタ	PJ2		
	LB202270	PIN JACK	T5854-A		ピンコネクタ	PJ3		
	Vi018900	SP TERMINAL	T6275-C		SP ターミナル	TE1		
	LB201390	BASE PIN	2P		ベースポスト	CB23,24		
	VD004600	BASE PIN	3P		ベースピン	CB3,19		
	VD004500	BASE PIN	2P		ベースピン	CB21,22		

*New Parts (新規部品)

ランク : Japan only

EXPLODED VIEW



MECHANICAL PARTS

Note) ∅ : Diameter

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* 01	Vi640400	PANEL UNIT		パネルユニット	BL	U, C, R, A, B
* 01	Vi640500	PANEL UNIT		パネルユニット	BL	G
* 01	Vi640600	PANEL UNIT		パネルユニット	T	U, C, R, A, B
* 01	Vi640700	PANEL UNIT		パネルユニット	T	G
02	iX611210	TRANSISTOR	2SB1317 P,S,Q	トランジスタ	Q215, 216	U, C, R
02	iX611040	TRANSISTOR	2SB1362 P,S,Q	トランジスタ	Q215, 216	A, G, B
03	iX611220	TRANSISTOR	2SD1975 P,S,Q	トランジスタ	Q213, 214	U, C, R
03	iX611050	TRANSISTOR	2SD2053 P,S,Q	トランジスタ	Q213, 214	A, B, G
06	VC397200	SHEET	D-290	デンカシート		U, C, R
06	VB435000	SHEET	TO-3P	放熱シート		A, B, G
08	Vi235300	RADIATOR		ラジエータ		U, C, R
* 08	VJ294100	RADIATOR		ラジエータ		A, B, G
10	VF545900	SUPPORT		サポート		
11	EZ001350	CUP SCREW	3x14 FCRM3-BL	カップネジ		
12	EI330086	BINDING TAPPING SCREW	3x8 FCM3-BL	バインドタッピングネジ		
13	EK336010	BW HEAD TAPPING SCREW	3x8 FCM3	BWヘッドタッピングネジ		
14	Vi632500	SHIELD PLATE L		シールドプレート L		
15	Vi632600	SHIELD PLATE R		シールドプレート R		
* 16	Vi641300	MAIN CIRCUIT BOARD		メインシート		U
* 16	Vi641400	MAIN CIRCUIT BOARD		メインシート		C
* 16	Vi641500	MAIN CIRCUIT BOARD		メインシート		R
* 16	Vi641600	MAIN CIRCUIT BOARD		メインシート		A
* 16	VJ004100	MAIN CIRCUIT BOARD		メインシート		B
* 16	Vi641700	MAIN CIRCUIT BOARD		メインシート		G
* 17	Vi642200	μ-COM CIRCUIT BOARD		マイコンシート		U, C, R, A, B
* 17	Vi642300	μ-COM CIRCUIT BOARD		マイコンシート		G
* 18	Vi642600	SURROUND CIRCUIT BOARD		サラウンドシート		U, C, R, A
* 18	Vi685500	SURROUND CIRCUIT BOARD		サラウンドシート		B, G
* 19	XH038A00	POWER TRANSFORMER		電源トランス		U
* 19	XH039A00	POWER TRANSFORMER		電源トランス		C
* 19	XH041A00	POWER TRANSFORMER		電源トランス		A, B
* 19	XH042A00	POWER TRANSFORMER		電源トランス		G
* 19	XH040A00	POWER TRANSFORMER		電源トランス		R
20	CB620200	CORD STOPPER	CW-22C	コードストッパー		U, C
20	CB620190	CORD STOPPER	CW-22B	コードストッパー		R, A, B, G
21	MG002220	POWER CORD	10A SPT-2	電源コード		U, C
21	VE371000	POWER CORD	6A 2H	電源コード		R
21	MG002310	POWER CORD	7.5A	電源コード		A
21	MG002330	POWER CORD	6A	電源コード		B
21	MG002320	POWER CORD	2.5A	電源コード		G
22	VC826100	AC OUTLET		電源コネクタ		A
22	VC827000	AC OUTLET		電源コネクタ		B
23	VG429100	SHEET	BFG-20AD	シート		
24	LB101110	SORT PLUG		ショートプラグ		
* 25	Vi207600	TOP COVER		トップカバー	BL	U, C, R, A, B
* 25	Vi560000	TOP COVER ASS'Y		トップカバー ASSY	BL	G
* 25	Vi207500	TOP COVER		トップカバー	T	U, C, R, A, B
* 25	Vi559900	TOP COVER ASS'Y		トップカバー ASSY	T	G
25-1	VH555000	GRILL		グリル	T	G
25-1	VH554800	GRILL		グリル	BL	G

*New Parts (新規部品)

ランク : Japan only

AVX-500

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
25-2	VH597900	NUT	スピードナット			
* 26	Vi209900	BOTTOM COVER	ボトムカバー			
* 27	Vi207700	REAR PANEL	リヤパネル		U	
* 27	Vi207800	REAR PANEL	リヤパネル		C	
* 27	Vi207900	REAR PANEL	リヤパネル		R	
* 27	Vi208000	REAR PANEL	リヤパネル		A	
* 27	Vi208100	REAR PANEL	リヤパネル		B	
* 27	Vi208200	REAR PANEL	リヤパネル		G	
* 28	Vi210100	HOLDER	ホルダー			
29	Vi176100	BOX ASSY	ボックスASSY			
* 30	Vi922400	TRANLEG	TL-014 トランレック*			
31	VH841900	BUTTON	10/25 ボタン	BL		
31	VH842000	BUTTON	10/25 ボタン	T		
* 32	Vi210300	BUTTON	3x6 ボタン	BL		
* 32	Vi210200	BUTTON	3x6 ボタン	T		
* 33	Vi211100	KNOB	ノブ	BL		
* 33	Vi211000	KNOB	ノブ	T		
34	VH888800	KNOB	D10 ノブ	BL		
34	VH888900	KNOB	D10 ノブ	T		
* 35	Vi211300	KNOB	ノブ	BL		
* 35	Vi211200	KNOB	ノブ	T		
36	Vi051200	KNOB	D45 ノブ	BL		
36	Vi051300	KNOB	D45 ノブ	T		
* 37	VJ079000	SHIELD PLATE	シールドプレート			
38	VF992300	STOPPER	ストッパ		G	
39	VF201500	DAMPER	10x10x20 ダンパー			
* 40	Vi913300	DAMPER	ダンパー			
* 41	Vi210700	BUTTON	7P ボタン	BL		
* 41	Vi210600	BUTTON	7P ボタン	T		
42	CB068880	PLASTIC RIVET	#1027 ブラリベット			
43	ED330066	BIND HEAD SCREW	3x6 FCM3-BL バインドコネジ			
44	ED330066	BIND HEAD SCREW	3x6 FCM3-BL バインドコネジ			
44	EV413036	TOOTHED LOCK WASHER	3MM 歯付座金			
45	Ei330086	BIND HEAD TAPPING SCREW	3x8 FCM3-BL バインドタッピングネジ			
46	EN301010	BIND HEAD BONDING SCREW	3x8 FCM3-BL ボンディングタッピング			
47	Ei330146	BINDING HEAD TAPPING SCREW	3x14 ZMC2-BL バインドタッピングネジ			
48	EK336010	BW HEAD TAPPING SCREW	3x8 FCM3 BWヘッドタッピングネジ			
49	EK330030	BW HEAD TAPPING SCREW	3x10 FCM3 BWヘッドタッピングネジ			
50	EX001150	BW HEAD S-TYTE SCREW	4x8 FCM3-BL BWヘッドSタイトネジ			
50	EK365040	BW HEAD SCREW	4x8 FCM3-BL BWヘッドSタイトネジ			
51	EK365040	BW HEAD SCREW	4x8 FCM3-BL BWヘッドSタイトネジ			
52	AA627310	TERMINAL, GROUND	3x13 FNM3-3G GNDターミナル			
53	EV901360	TOOTHED LOCKED WASHER	3.6x10x0.8 セムス平座金			
54	EZ001350	CUP SCREW	3x14 FCRM3-BL カップネジ			
55	Ei330146	BIND HEAD TAPPING SCREW	3x14 FCM3-BL バインドタッピングネジ			
* 56	Vi910400	LEG L	レック* L	BL		
* 56	Vi910300	LEG L	レック* L	T		
* 57	Vi910700	LEG R	レック* R	BL		
* 57	Vi910500	LEG R	レック* R	T		
59	Vi491100	FERRITE CORE	フェライトコア		G	

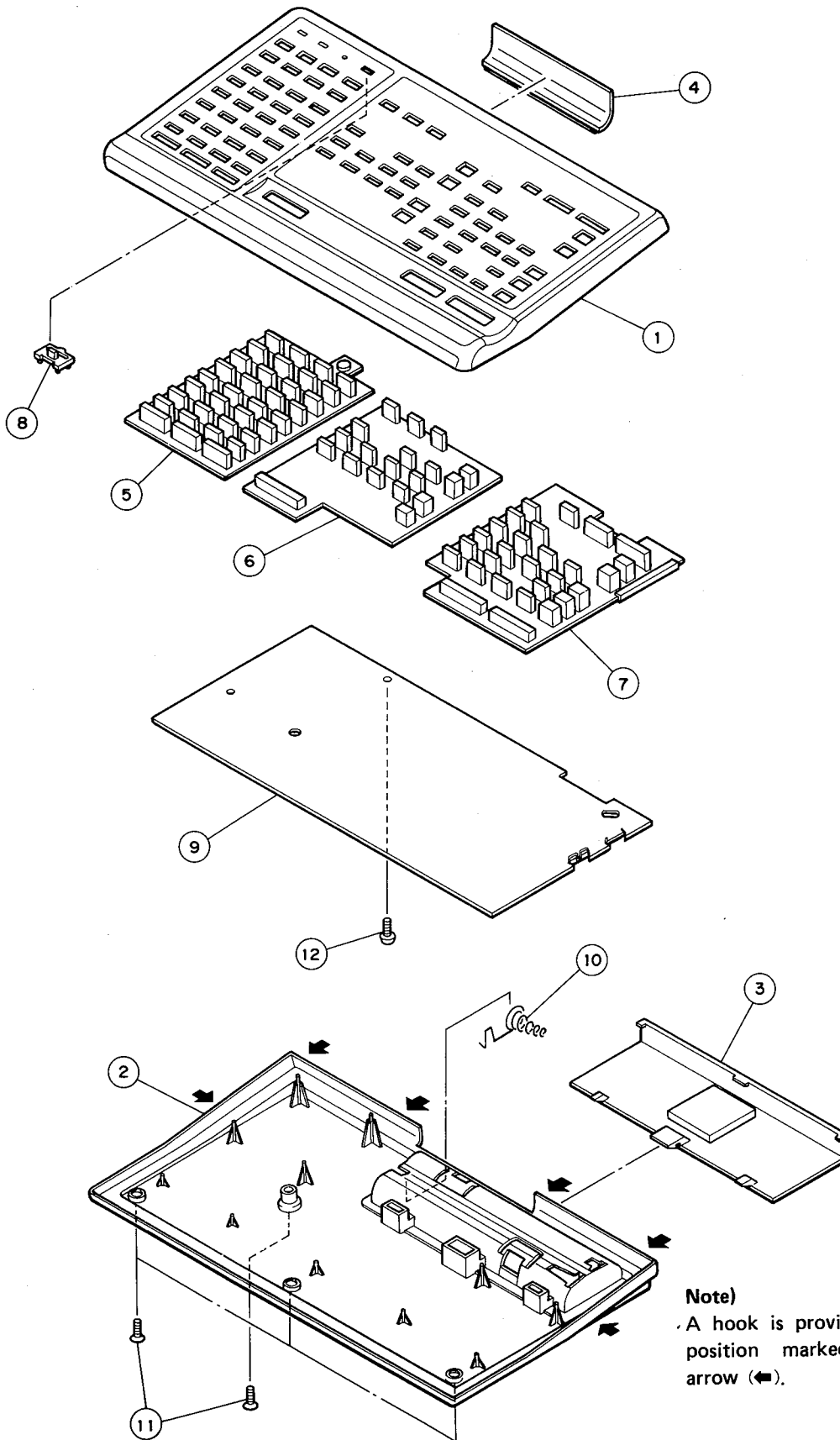
*New Parts (新規部品)

ランク : Japan only

REMOTE CONTROL TRANSMITTER

< U, C models >

EXPLODED VIEW



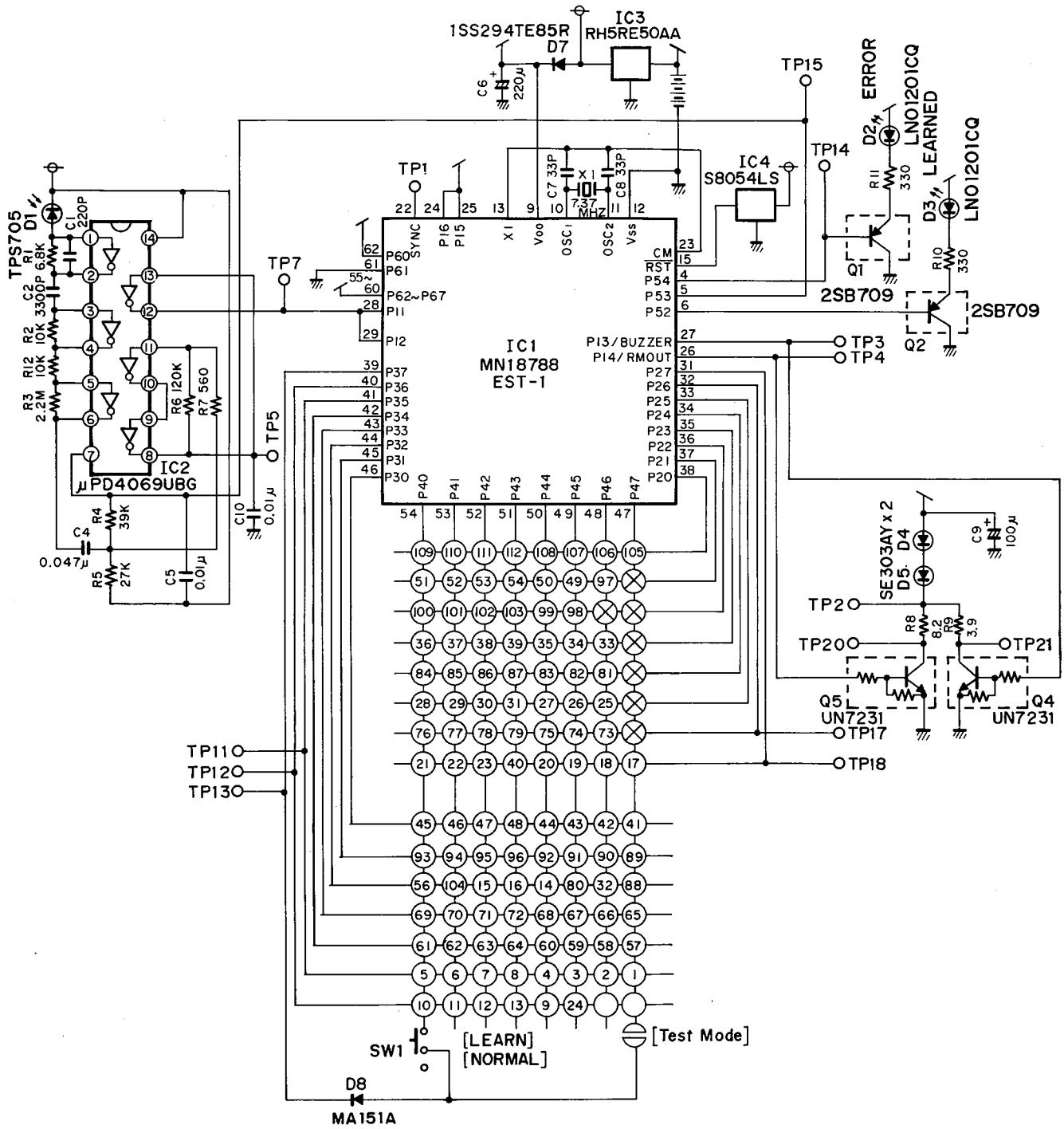
Note)
A hook is provided at each position marked with an arrow (↔).

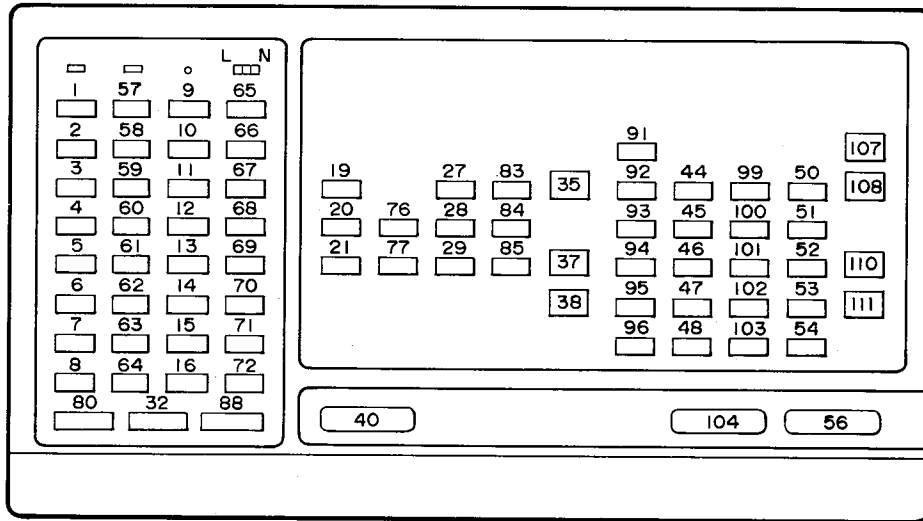
■ PARTS LIST

AVX-500

Ref. No.	Part No.	Description	部品名	Remarks	Markets	ランク
※ ※ 1	V1654500	Remote Control Transmitter	リモートコントロールトランスミッター			
2	CX613920	Case(A)Ass'y	上ケース			
3	CX611070	Case(B)	下ケース		UR66CS200E	
4	CX611080	Lid	電池蓋		UR66EC201E	
4	CX607950	Filter,Smoke	ステーク板		UR66SB257	
5	CX611090	Rubber,Contact(A)	ゴム接点(A)		UR66CT202A	
※ 6	CX613930	" (B)	" (B)		UR66CT203M	
※ 7	CX613940	"	"		UR66CT204N	
8	CX608090	Knob	ノブ		UR66VTM83	
※ 9	NX607640	P.C.Board Ass'y	プリント基板Ass'y		UR66VPB152	
10	LX602520	Terminal,Battery	共通電極板		UR66TD239	
11	E0320066	Flat Head Tapping Screw	皿ネジ	PACK	XTS2+6GFZ	
12	EJ020056	Pan Head Tapping Screw	六角ネジ	PACK	XTB2+5GFZ	
※	NX607640	P.C. Board Ass'y	プリント基板Ass'y		UR66VPB152	
	IX612280	Photo Diode	フォトダイオード	D1		
	IX614280	LED(Red)	LED	D2,3		
	IX615900	LED	赤外線LED	D4,5		
	QX600270	Ceramic Resonator	セラミック発振子	X1		
	UJ128220	Electrolytic Cap.	ケミコン	C6		
	UJ128100	"	"	C9		
	LX602530	Terminal Battery	電極板	-	UR66TD209	
	LX602540	"	"	+	UR66TD208	

SCHEMATIC DIAGRAM



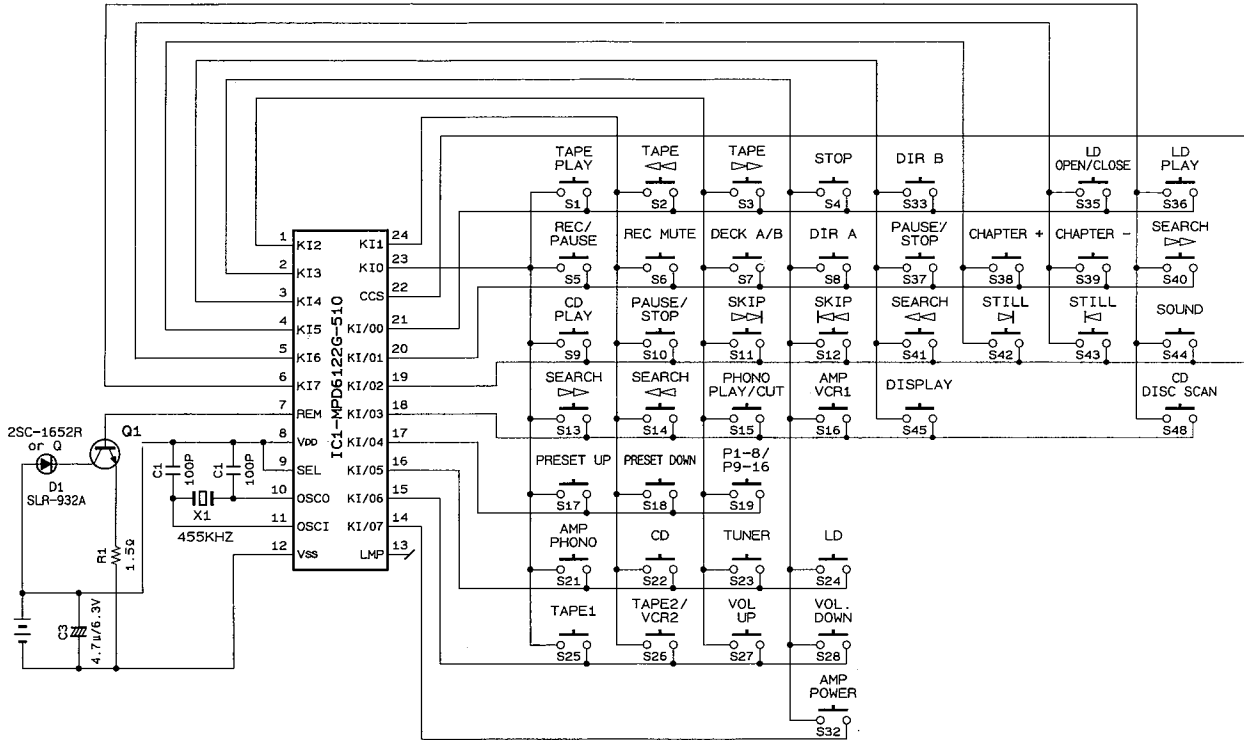


Key No.	CONTROL CODE	FUNCTION	Key No.	CONTROL CODE	FUNCTION
1~16		LEARNING	57~72		LEARNING
17	—	—	73	—	—
18	7A-1E	—	74	—	—
19	7C-01	LD OPEN/CLOSE	75	—	—
20	7C-02	LD CHAPTER "—"	76	7C-03	LD CHAPTER "+"
21	7C-0A	LD STILL ◀	77	7C-0B	LD STILL ▶
22	—	—	78	—	—
23	—	—	79	—	—
24	—	—	80	—	LEARNING
25	—	—	81	—	—
26	—	—	82	—	—
27	7C-04	LD PAUSE/STOP	83	7C-05	LD PLAY
28	7C-06	LD SEARCH ◀◀	84	7C-07	LD SEARCH ▶▶
29	7C-12	LD SOUND	85	7C-13	LD DISPLAY
30	—	—	86	—	—
31	—	—	87	—	—
32	—	LEARNING	88	—	LEARNING
33	—	—	89	—	—
34	—	—	90	—	—
35	7A-17	LD	91	7A-0E	PHONO PLAY/CUT
36	—	—	92	7A-0B	CD SKIP ◀◀
37	7A-0F	VCR 1 MONI	93	7A-0D	CD SEARCH ◀◀
38	7A-19	TAPE 2/VCR 2	94	7A-06	TAPE DECK A/B
39	—	—	95	7A-04	TAPE REC/PAUSE
40	7A-1F	POWER	96	7A-05	TAPE REC/MUTE
41	—	—	97	—	—
42	—	—	98	—	—
43	—	—	99	7A-50	CD DISC DOWN
44	7A-0A	CD SKIP ▶▶	100	7A-09	CD PAUSE/STOP
45	7A-0C	CD SEARCH ▶▶	101	7A-10	TUNER PRESET UP
46	7A-11	TUNER PRESET DOWN	102	7A-00	TAPE PLAY
47	7A-07	TAPE DIR A	103	7A-03	TAPE STOP
48	7A-01	TAPE ◀◀	104	(7A-1B)	(VOLUME DOWN)
49	—	—	105	—	—
50	7A-4F	CD DISC UP	106	—	—
51	7A-08	CD PLAY	107	7A-14	PHONO
52	7A-12	P1—8/P9—18	108	7A-15	CD
53	7A-40	TAPE DIR B	109	—	—
54	7A-02	TAPE ▶▶	110	7A-16	TUNER
55	—	—	111	7A-18	TAPE 1 MONI
56	(7A-1A)	(VOLUME UP)	112	—	—

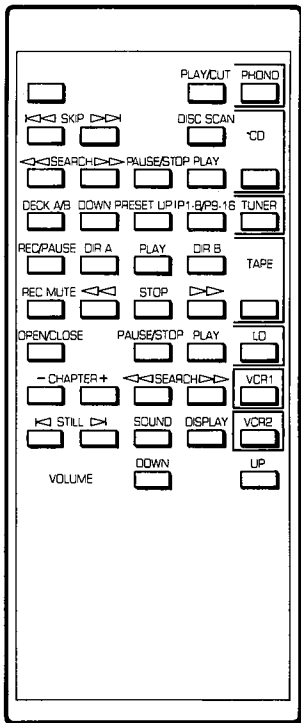
REMOTE CONTROL TRANSMITTER

< R, A, B, G models >

SCHEMATIC DIAGRAM



CUSTOM CODE C0 C1 C2 C3 C4 C5 C6 C7
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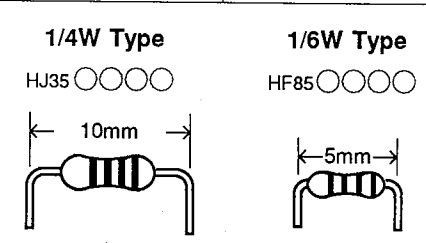


KEY No.	DATA CODE								FUNCTION
	D0	D1	D2	D3	D4	D5	D6	D7	
1	0	0	0	0	0	0	0	0	TAPE PLAY
2	1	0	0	0	0	0	0	0	TAPE
3	0	1	0	0	0	0	0	0	TAPE
4	1	1	0	0	0	0	0	0	TAPE STOP
5	0	0	1	0	0	0	0	0	TAPE REC/PAUSE
6	1	0	1	0	0	0	0	0	TAPE REC MUTE
7	0	1	1	0	0	0	0	0	TAPE DECK A/B
8	1	1	1	0	0	0	0	0	TAPE DIR A
9	0	0	0	1	0	0	0	0	CD PLAY
10	1	0	0	1	0	0	0	0	CD PAUSE / STOP
11	0	1	0	1	0	0	0	0	CD SKIP
12	1	1	0	1	0	0	0	0	CD SEARCH
13	0	0	1	1	0	0	0	0	CD SEARCH
14	1	0	1	1	0	0	0	0	CD SEARCH
15	0	1	1	1	0	0	0	0	PHONO PLAY / CUT
16	1	1	1	1	0	0	0	0	AMP VCR 1
17	0	0	0	0	1	0	0	0	TUNER PRESET UP
18	1	0	0	0	1	0	0	0	TUNER PRESET DOWN
19	0	1	0	0	1	0	0	0	TUNER P1-8 / P9-16
21	0	0	1	0	1	0	0	0	AMP PHONO
22	1	0	1	0	1	0	0	0	AMP CD
23	0	1	1	0	1	0	0	0	AMP TUNER
24	1	1	1	0	1	0	0	0	AMP LD
25	0	0	0	1	1	0	0	0	AMP TAPE 1
26	1	0	0	1	1	0	0	0	AMP TAPE 2 / VCR 2
27	0	1	0	1	1	0	0	0	VOL. UP
28	1	1	0	1	1	0	0	0	VOL. DOWN
32	1	1	1	1	1	0	0	0	AMP POWER
33	0	0	0	0	0	0	1	0	TAPE DIR B
35	0	1	0	0	0	0	1	0	LD OPEN / CLOSE
36	1	1	0	0	0	0	1	0	LD PLAY
37	0	0	1	0	0	0	1	0	LD PAUSE / STOP
38	1	0	1	0	0	0	1	0	LD CHAPTER +
39	0	1	1	0	0	0	1	0	LD CHAPTER -
40	1	1	1	0	0	0	1	0	LD SEARCH
41	0	0	0	1	0	0	1	0	LD SEARCH
42	1	0	0	1	0	0	1	0	LD STILL
43	0	1	0	1	0	0	1	0	LD STILL
44	1	1	0	1	0	0	1	0	LD SOUND
45	0	0	1	1	0	0	1	0	LD DISPLAY
48	1	1	1	1	0	0	1	0	CD DISC SCAN

Parts List for Carbon Resistors

AVX-500

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	HF853100	12 KΩ	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 KΩ	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF853220	18 KΩ	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF853330	22 KΩ	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF853470	27 KΩ	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF853560	33 KΩ	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF854100	39 KΩ	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF854150	47 KΩ	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF854220	56 KΩ	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF854270	68 KΩ	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF854330	82 KΩ	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF854390	91 KΩ	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF854470	100 KΩ	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF854560	120 KΩ	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF854680	150 KΩ	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF854820	180 KΩ	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF855100	220 KΩ	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF855110	270 KΩ	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF855120	330 KΩ	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF855150	390 KΩ	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 KΩ	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF855180	560 KΩ	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF855220	680 KΩ	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF855270	820 KΩ	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF855330	1.0 MΩ	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF855390	1.2 MΩ	HJ35 9120	*
470 Ω	HJ35 5470	HF855470	1.5 MΩ	HJ35 9150	HF85 9150
510 Ω	*	HF855510	1.8 MΩ	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF855560	2.2 MΩ	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF855680	3.3 MΩ	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF855820	3.9 MΩ	HJ35 9390	*
910 Ω	HJ35 5910	HF855910	4.7 MΩ	HJ35 9470	HF85 9470
1.0 KΩ	HJ35 6100	HF85 6100			
1.2 KΩ	HJ35 6120	HF85 6120			
1.5 KΩ	HJ35 6150	HF85 6150			
1.8 KΩ	HJ35 6180	HF85 6180			
2.0 KΩ	HJ35 6200	HF85 6200			
2.2 KΩ	HJ35 6220	HF85 6220			
2.4 KΩ	HJ35 6240	HF85 6240			
2.7 KΩ	HJ35 6270	HF85 6270			
3.0 KΩ	HJ35 6300	HF85 6300			
3.3 KΩ	HJ35 6330	HF85 6330			
3.6 KΩ	HJ35 6360	HF85 6360			
3.9 KΩ	HJ35 6390	HF85 6390			
4.7 KΩ	HJ35 6470	HF85 6470			
5.1 KΩ	HJ35 6510	HF85 6510			
5.6 KΩ	HJ35 6560	HF85 6560			
6.8 KΩ	HJ35 6680	HF85 6680			
8.2 KΩ	HJ35 6820	HF85 6820			
9.1 KΩ	HJ35 6910	HF85 6910			
10 KΩ	HJ35 7100	HF85 7100			



AVX-500

AVX-500

YAMAHA

SCHEMATIC 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)..... FRP model

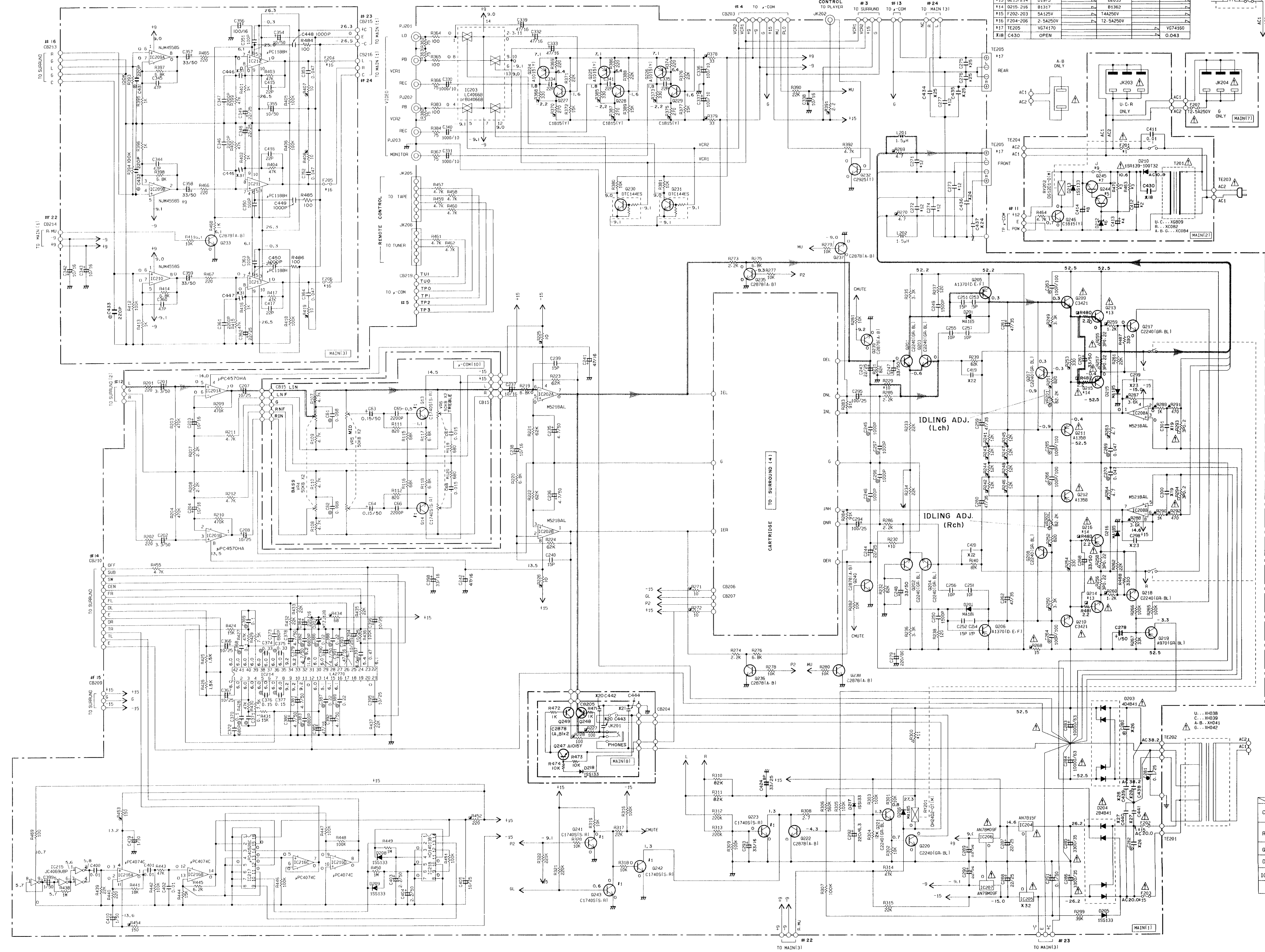
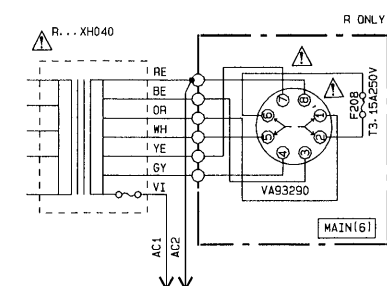
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊖	TANTALUM CAPACITOR
⊙	CERAMIC CAPACITOR
⊕	POLYESTER FILM CAPACITOR
⊖	POLYSTYRENE FILM CAPACITOR
⊕	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
⊕	SEMICONDUCTIVE CERAMIC CAPACITOR

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

Interchangeable Parts at Manufacture Stage

Mark	Reference Parts Number	Parts Name
#1	Q13-14 223-241-243	2SC1740S (S-R)
		2SC2603E (E-F)
		2SC331A (Q-R-S)

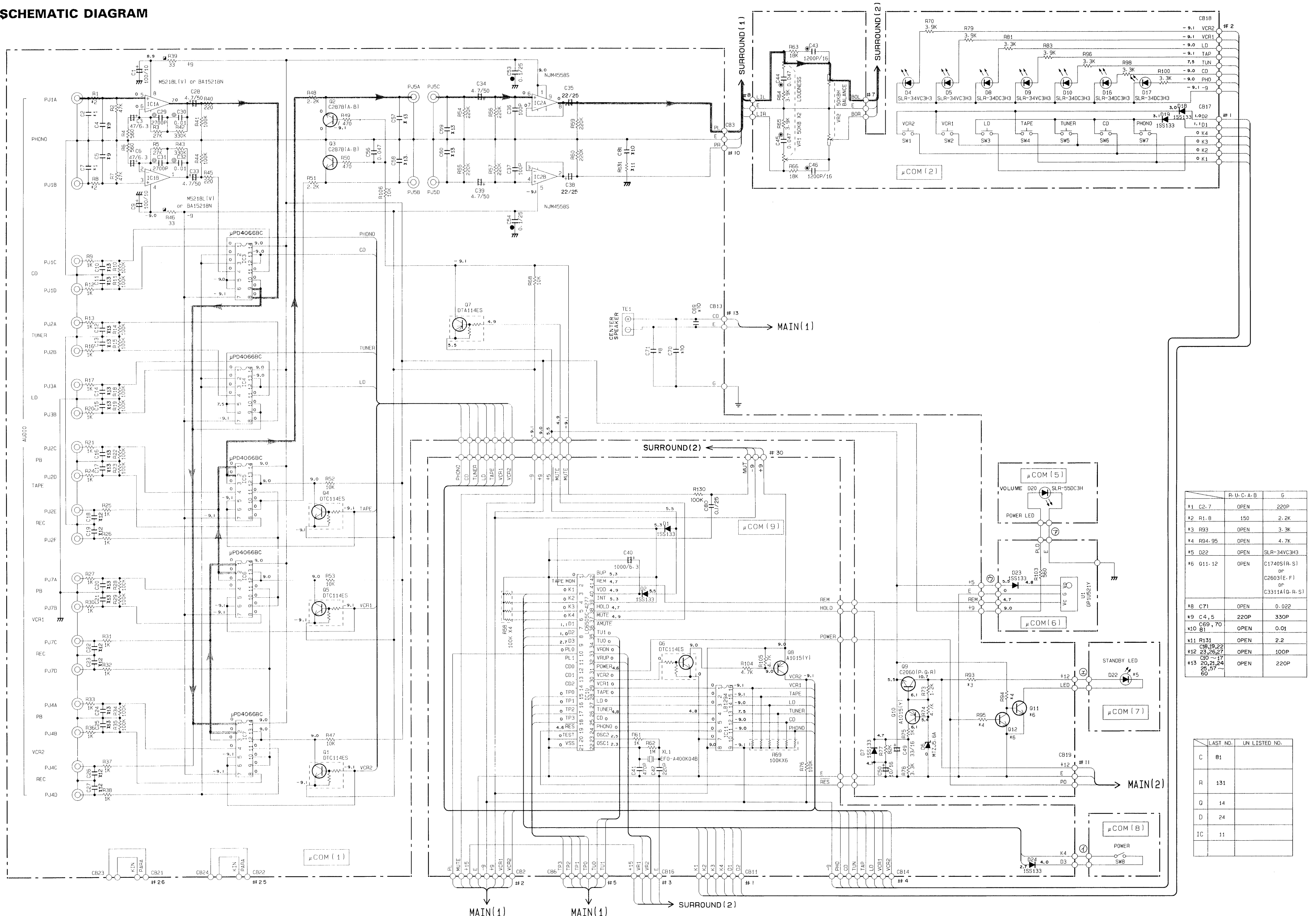
	U-C	R	A	B	G
#1	F201	7A125V	17A250V	T2-5A250V	
#2	C412	470/25	470/63	470/25	
#3	R463-470	OPEN	OPEN	OPEN	
#4	C413	OPEN	47/15	OPEN	
#5	Q244	OPEN	C2240 (GR-BL)	OPEN	
#6	D212	OPEN	MTZJ42C	OPEN	
#7	Q245	OPEN	D1485 (P-D-R)	OPEN	
#8	C414	OPEN	10/16	OPEN	
#9	J	SHDRT	OPEN	SHDRT	
#10	R229-230	2-2K	4.7K	4.7K	
#11	R300	2P-2K	2P560		
#12	C271-276	OPEN		0.022	
#13	Q213-214	D1976	D2053		
#14	Q215-216	B1317	B1362		
#15	F202-203	5A125V	14A250V		
#16	F204-206	2-5A250V	12-5A250V		
#17	TE205	V674170	V674160		
#18	C430	OPEN		0.043	



LAST NO.	LN LISTED NO.
C	433
R	483
Q	249
D	218
IC	218

* 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



	R. U. C. A. B	G
#1	C2-7	OPEN 220P
#2	R1-8	150 2.2K
#3	R93	OPEN 3.3K
#4	R94-95	OPEN 4.7K
#5	D22	OPEN SLR-34VC3H3
#6	Q11-12	OPEN C1740S(R, S) or C2603(E, F) or C3311A(I, R, S)
#8	C71	OPEN 0.022
#9	C4, 5	220P 330P
#10	C69, 70	OPEN 0.01
#11	R131	OPEN 2.2
#12	C8, 19, 22, 23, 25, 27	OPEN 100P
#13	C0-17, 20, 21, 24, 25, 27, 28, 29, 37	OPEN 220P

LAST NO.	LN LISTED NO.
C	81
R	131
Q	14
D	24
IC	11

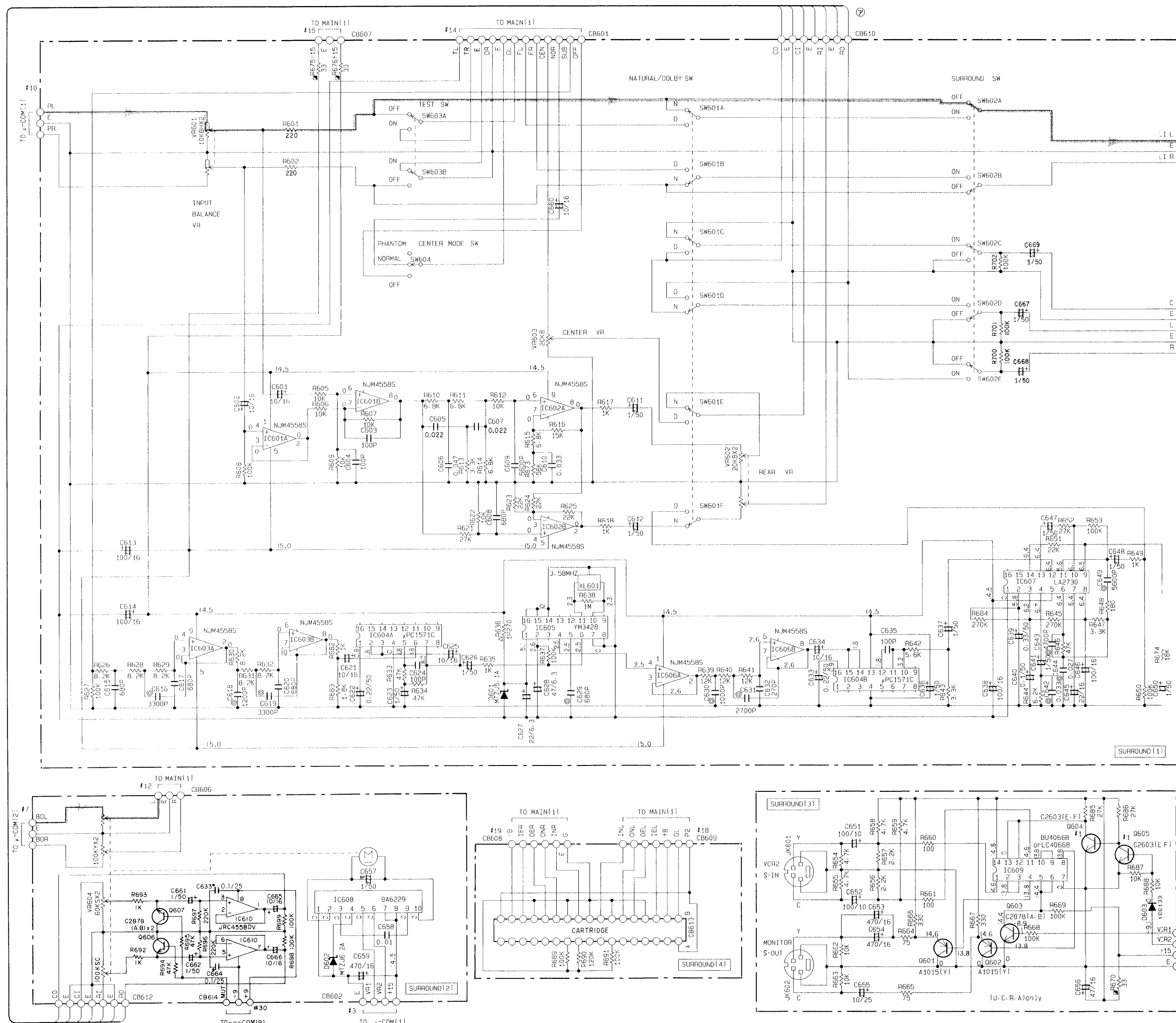
NOTICE
 (J)..... Japanese model
 (U)..... U.S.A model
 (C)..... Canadian model
 (A)..... Australian model
 (B)..... British model
 (R)..... General model
 (P)..... RP model

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 MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

* 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



Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
#1	0604-605	2SC1740S(S, R) 2SC2603(E, F) 2SC3311A(O, R, S)

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

RESISTOR

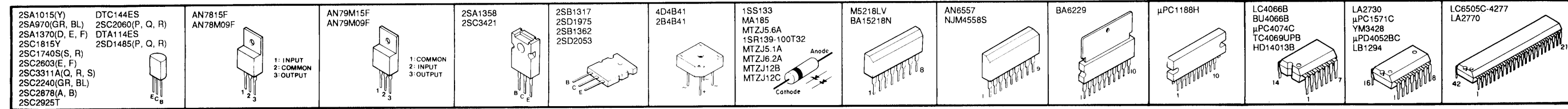
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/4W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊡	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊚	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

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

	LAST NO.	LN LISTED NO.
C	669	
R	702	
G	607	
D	603	
IC	610	

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



* 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.