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 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 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 reserch, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

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

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

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100312

YAMAHA

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

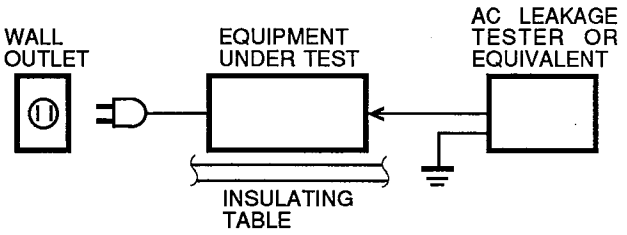
3.3K-863 K Printed in Japan '90.3

■ TO SERVICE PERSONNEL

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

2. Leakage Current Measurement (For 120V Model Only).
   When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



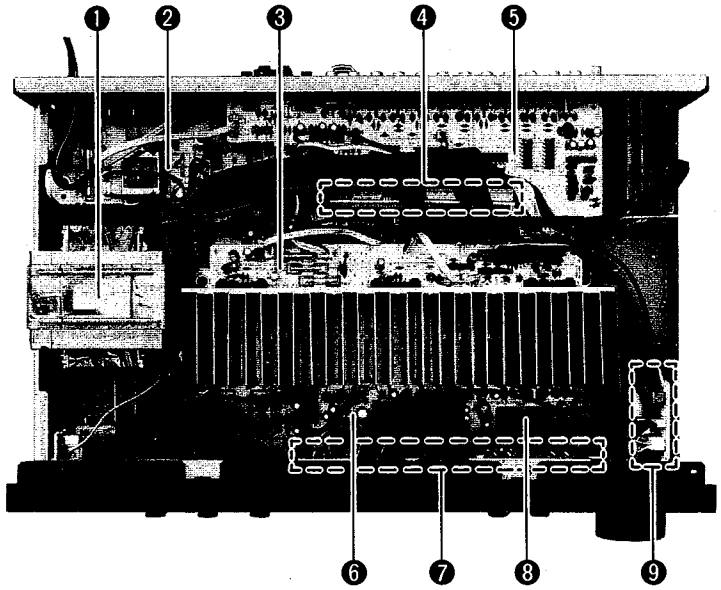
- **POLARIZATION (U, C models only)**
  This amplifier product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

- **FUSE REPLACEMENT :**

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

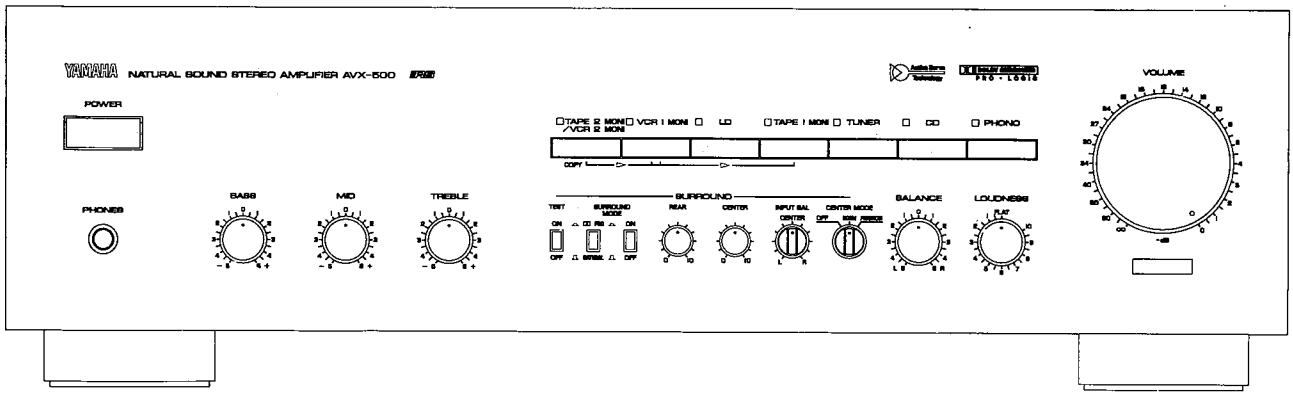
" **CAUTION** : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE FUSE."
Fuse F201 must be 7A 125V.
Fuse F202 and F203 must be T5A 125V.
Fuse F204 to F206 must be T2.5A 250V.

■ INTERNAL VIEW

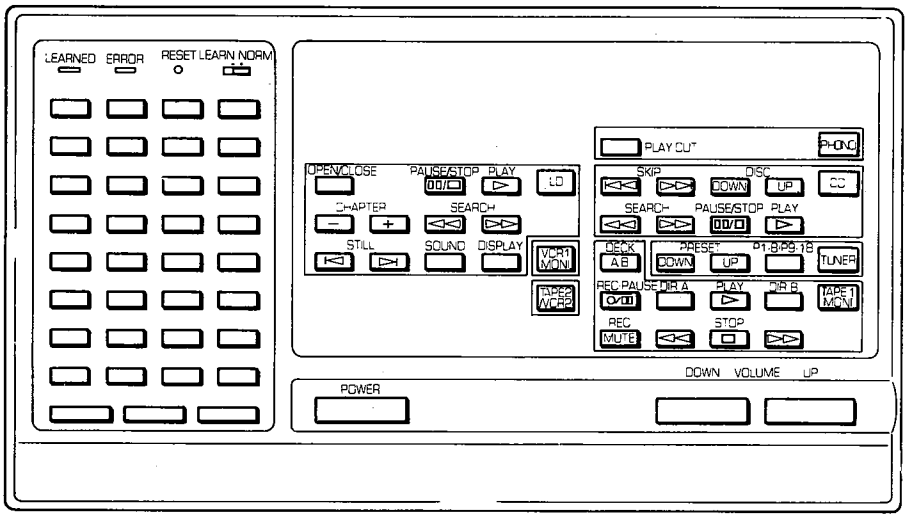


❶ POWER TRANSFORMER
  U. S. A model : XH038A00
  Canadian model : XH039A00
  General model : XH040A00
  Australian & British models : XH041A00
  European model : XH042A00
❷ MAIN CIRCUIT BOARD (2)
❸ MAIN CIRCUIT BOARD (3)
❹ μ-COM CIRCUIT BOARD (9)
❺ μ-COM CIRCUIT BOARD (1)
❻ MAIN CIRCUIT BOARD (1)
❼ SURROUND CIRCUIT BOARD (1)
❽ LA2770 (IC214) : DOLBY PRO LOGIC
❾ SURROUND CIRCUIT BOARD (2)

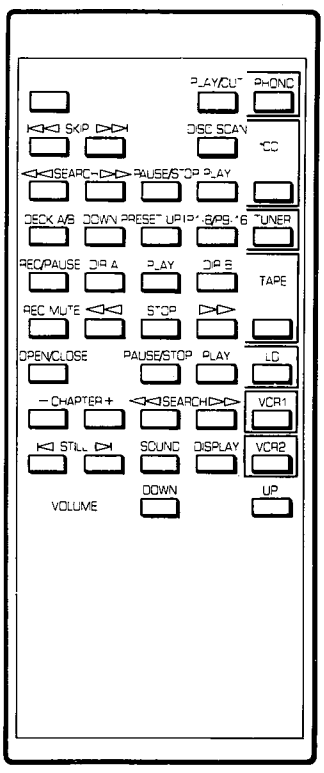
■ FRONT PANEL



● U, C models

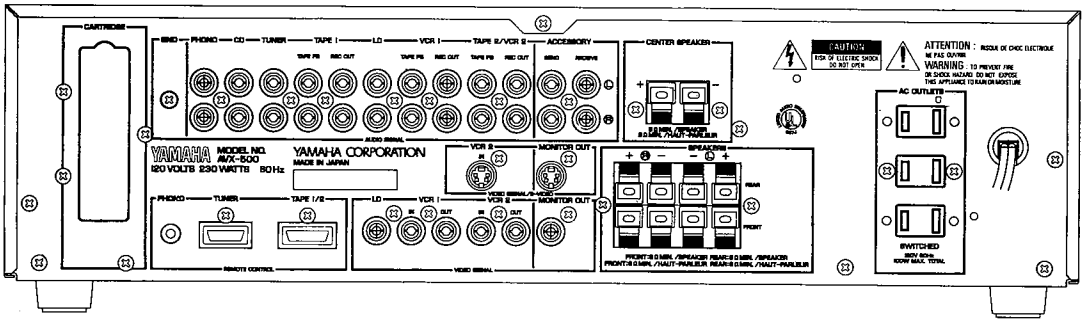


● R, A, B, G models

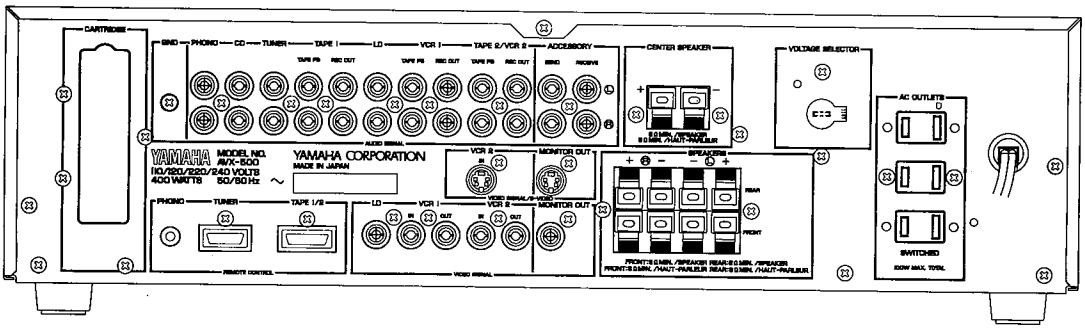


■ REAR PANELS

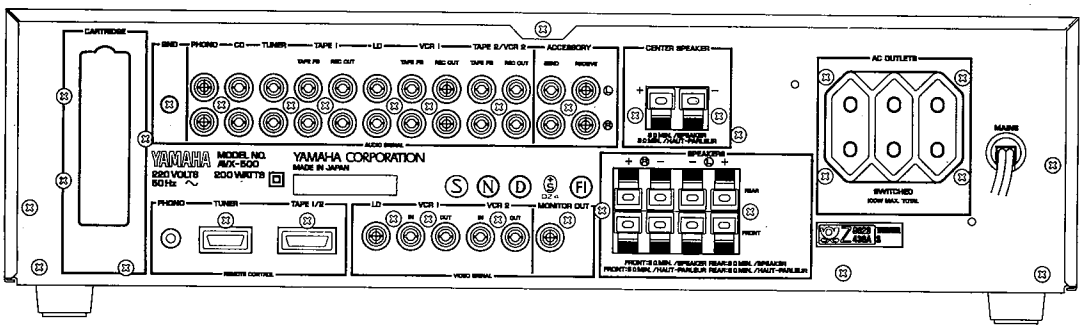
▼ U. S. A & Canadian models



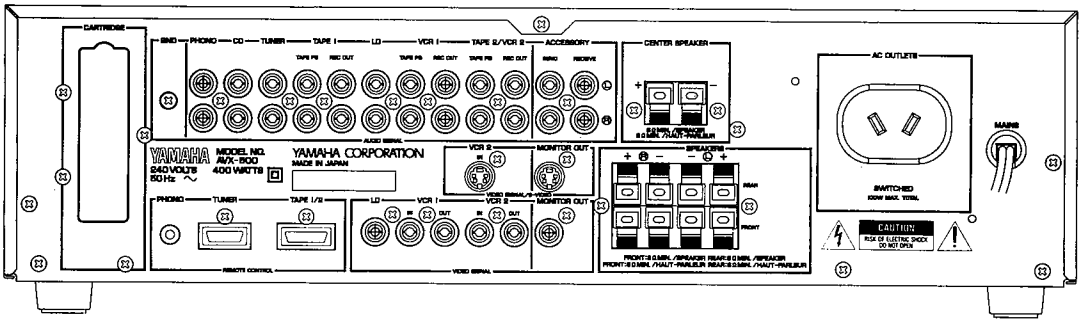
▼ General model



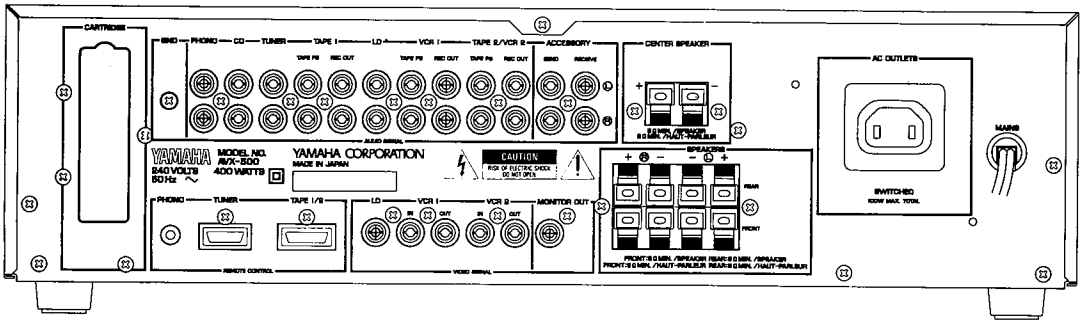
▼ European model



▼ 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")
Weight	8.4kg (18 lbs 8 oz)

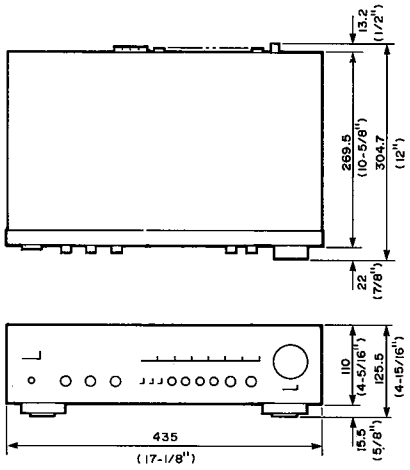
**Specifications subject to change without notice.*

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

DOLBY SURROUND
PRO · LOGIC

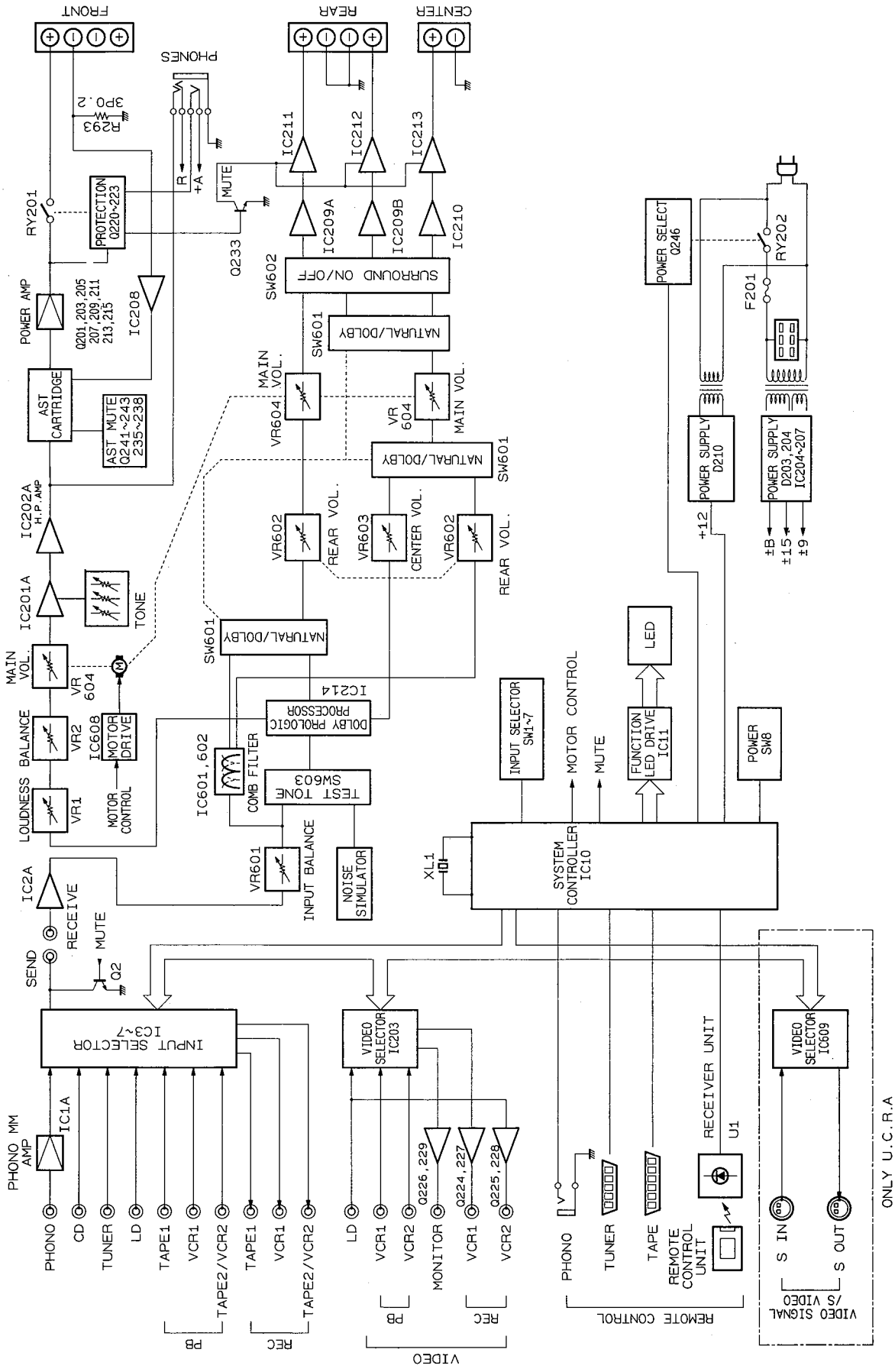
Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,682,886, 3,746,792 and 3,959,590. Canada numbers 1,004,603 and 1,037,877. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

● DIMENSIONS



Unit : mm (inch)

■ BLOCK DIAGRAM



■ 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.

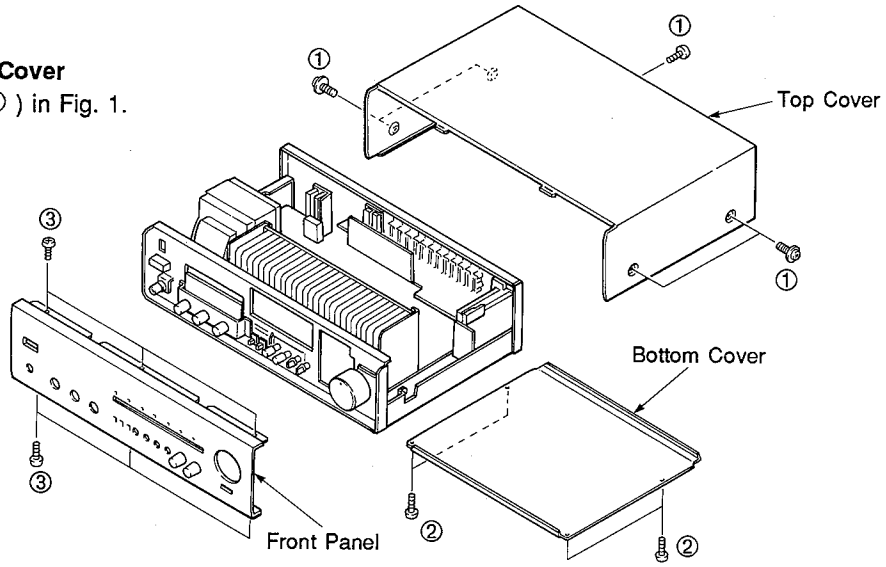


Fig. 1

● Installation of Top Cover

< Example of incorrect installation >

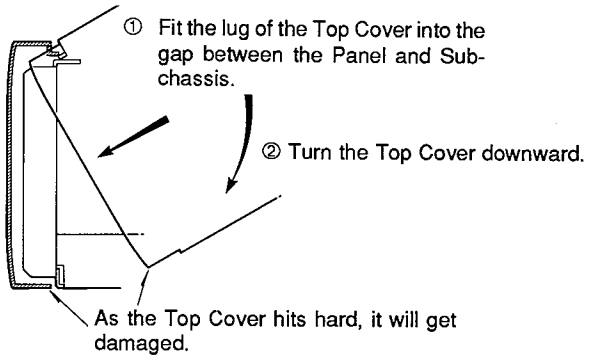


Fig. 2

< Example of correct installation >

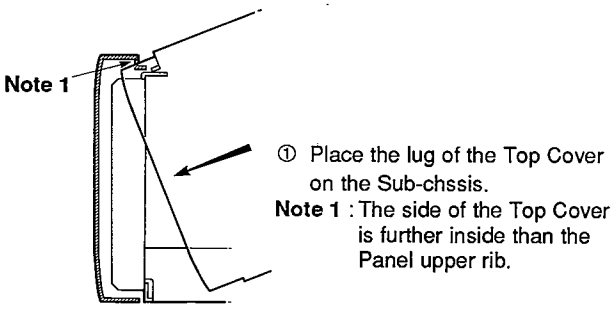


Fig. 3

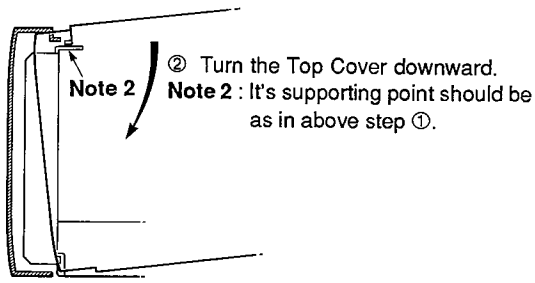


Fig. 4

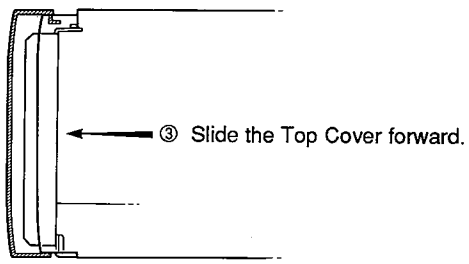
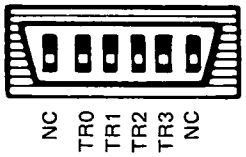


Fig. 5

■ REMOTE CONTROL TERMINAL

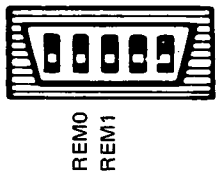
● TAPE



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 Inpedance
Less than 10kΩ

● TUNER



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

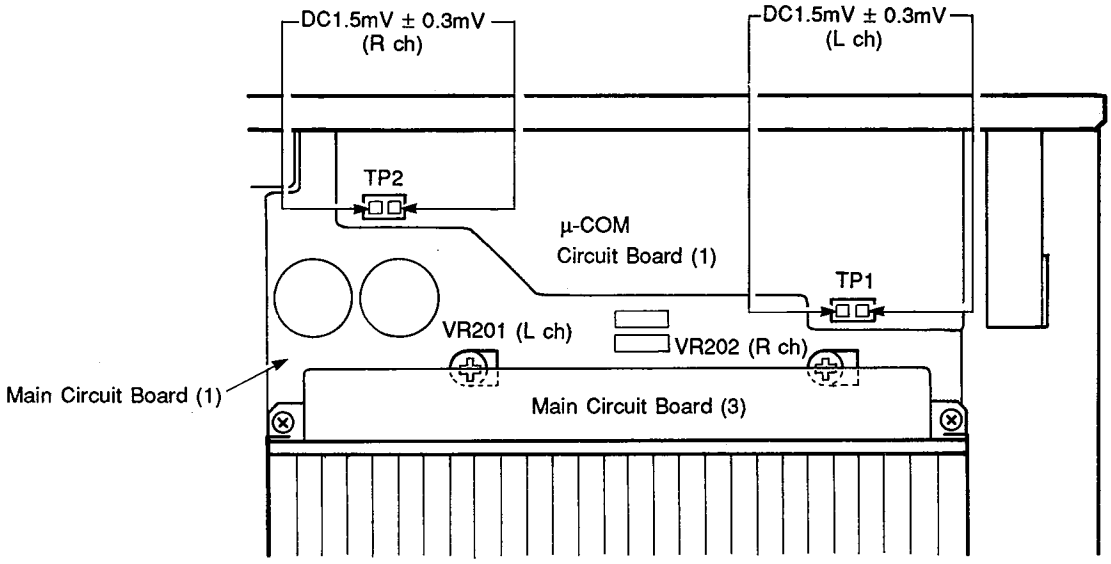
14±1V voltage is output for about a second with the remote control PLAY/CUT key on.

■ ADJUSTMENTS

● Idling Adjustment

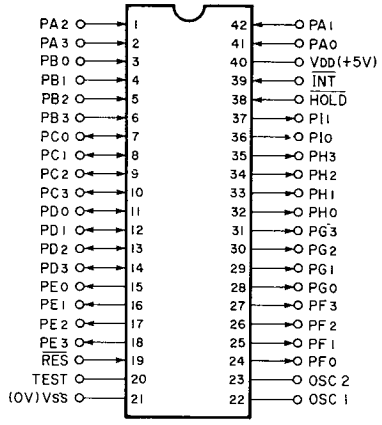
To stabilize operation of the amplifier, turn On the power in the no-signal atate and wait for two minutes before the adjustment.

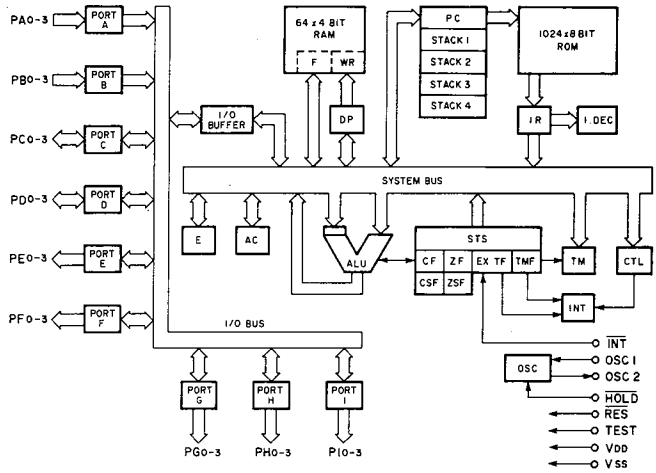
Adjust VR201 (L ch) and VR202 (R ch) so that the voltage across test pin terminals of TP1 (L ch) and TP2 (R ch) becomes DC1.5mV ± 0.3mV.



■ IC DATA

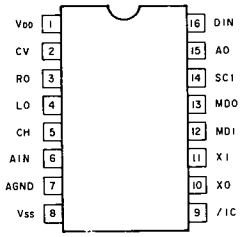
IC10 : LC6505C-4277
4 bit μ-COM

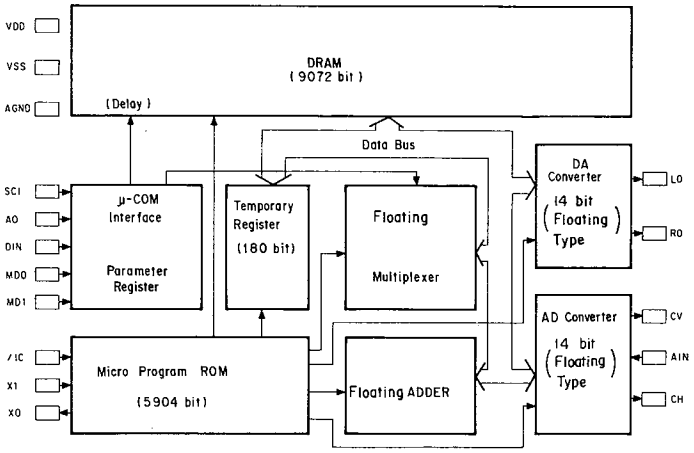




Pin No.	NAME	I/O	FUNCTION
1	PA_2	I	Not used (GND)
2	PA_3	I	H level (TAPE MONITOR)
3	PB_0	I	K_1
4	PB_1	I	K_2
5	PB_2	I	K_3
6	PB_3	I	K_4 } Key input (H: ON)
7	PC_0	I/O	D_1
8	PC_1	I/O	D_2
9	PC_2	I/O	D_3 } Key scan signal (H: Active)
10	PC_3	I/O	PLO PHONO PLAY/CUT Control signal
11	PD_0	I/O	Not used
12	PD_1	I/O	CD_0
13	PD_2	I/O	CD_1
14	PD_3	I/O	CD_2 } CD control signal (Not used)
15	PE_0	O	$\overline{TP_0}$
16	PE_1	O	TP_1
17	PE_2	O	TP_2
18	PE_3	O	TP_3 } Deck control signal
19	$\overline{RES}$	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
25	PF_1	O	CD
26	PF_2	O	TUNER
27	PF_3	O	VDP
28	PG_0	O	TAPE
29	PG_1	O	VCR 1
30	PG_2	O	VCR 2 } Function control (H: ON, L: OFF)
31	PG_3	O	Power control signal (H: ON)
32	PH_0	O	Volume Up control signal
33	PH_1	O	Volume Down control signal
34	PH_2	O	TU_2
35	PH_3	O	TU_1 } Tuner control signal
36	PI_0	O	$\overline{AMUTE}$ Audio Muting control signal (L: Active), Not used
37	PI_1	O	$\overline{MUTE}$ Muting control signal (L: Active)
38	$\overline{HOLD}$	I	μ-COM Back up control (L: Back up, H: Active)
39	$\overline{INT}$	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 ON)

IC605 : YM3428
Digital Delay Circuit

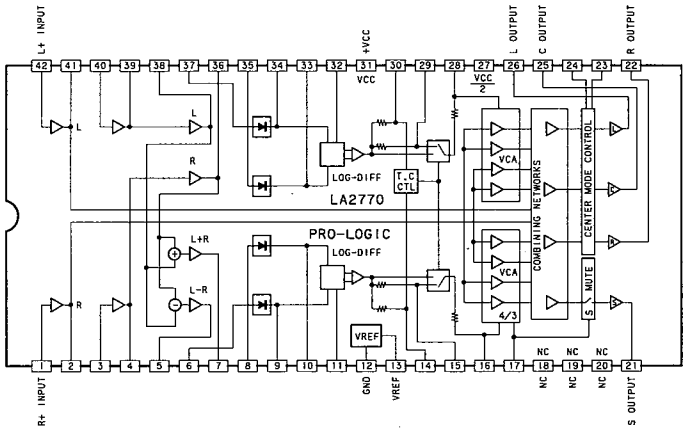




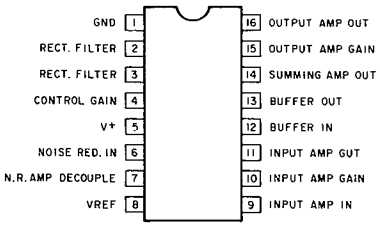
Pin No.	Name	I/O	Function
1	VDD	—	+5V Power Supply Terminal
2	CV	0	Reference Voltage (+2.5V) Output Terminal for A/D Conversion use
3	R0	0	D/A Conversion Analog Signal Output Terminal for R-ch use
4	LO	0	D/A Conversion Analog Signal Output Terminal for L-ch use
5	CH	0	Condensor Externally Attached Terminal 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

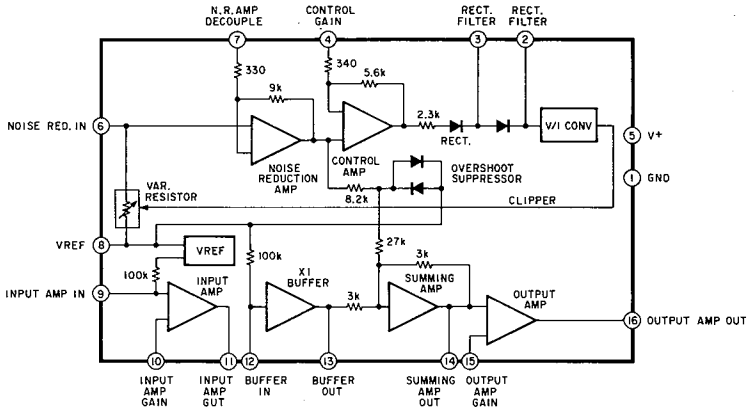
NOTE: Terminal marked with * means that Pull-up Resistance has been built-in.

IC214 : LA2770
Dolby Pro-Logic

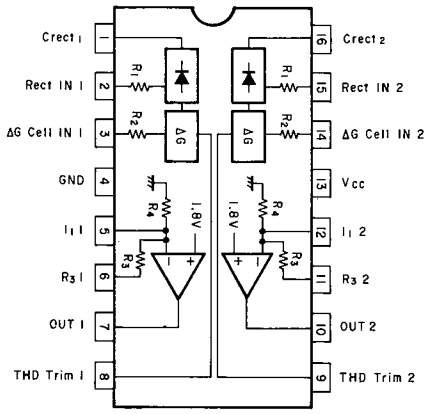


IC607 : LA2730
Dolby Encoder / Decoder

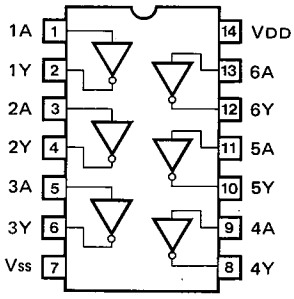




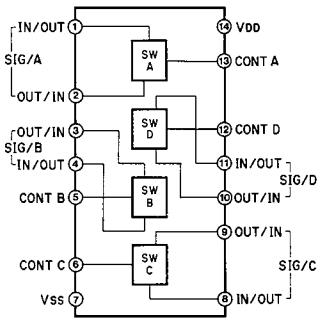
IC604 : μPC1571C
Conpresser



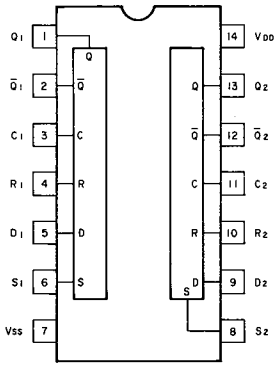
IC215 : TC4069UBP
Hex Inverter

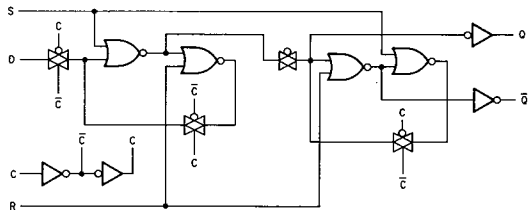


IC3~7 : μPD4066BC
IC203, 609 : LC4066B or BU4066B
Quad Bilateral Switch



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

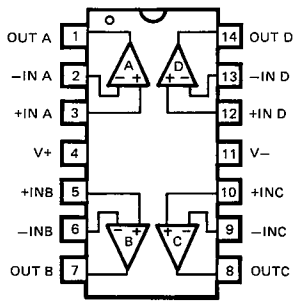




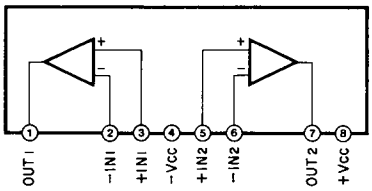
Input				Output	
Clock*	Data	Reset	Set	Q	Q̄
↓	L	L	L	L	H
↑	H	L	L	H	L
↓	X	L	L	Q	Q̄
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

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

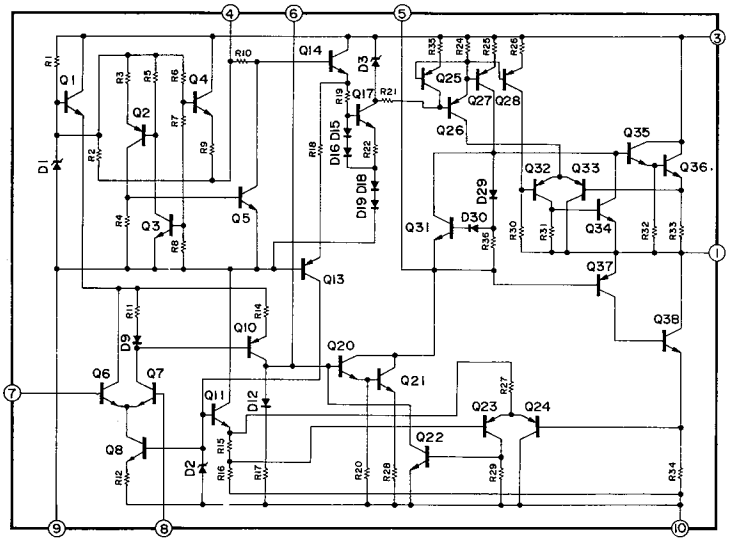
IC216 : μPC4074C
4-Channel Ope-amp



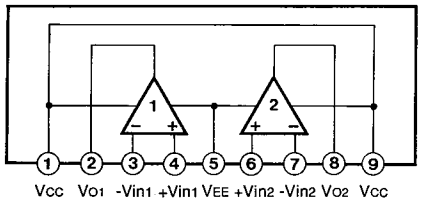
IC1 : BA15218N or M5218LV
IC202, 208 : M5218AL
Dual Ope-amp



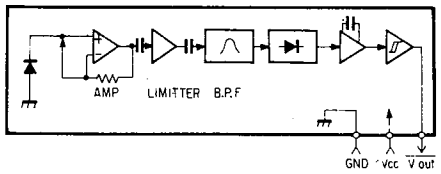
IC211~213 : μPC1188H
Power Amp



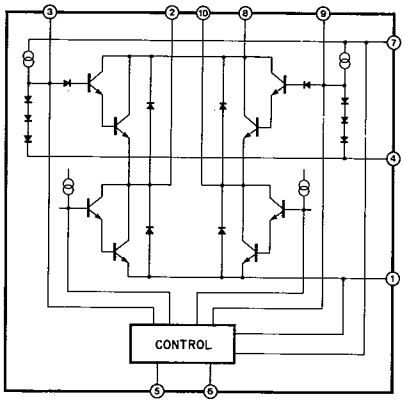
IC201 : μPC4570HA
IC2, 209, 210, 601~603, 606 : NJM4558S
Dual Ope-amp



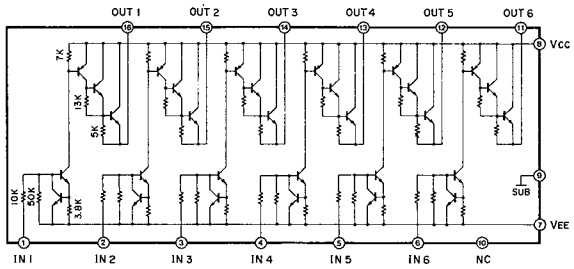
U1 : GP1U521Y
Remote Control Receptor



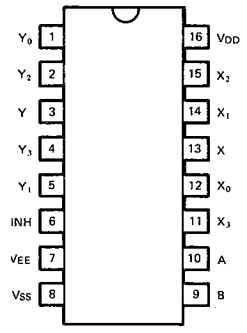
IC608 : BA6229
Motor Driver

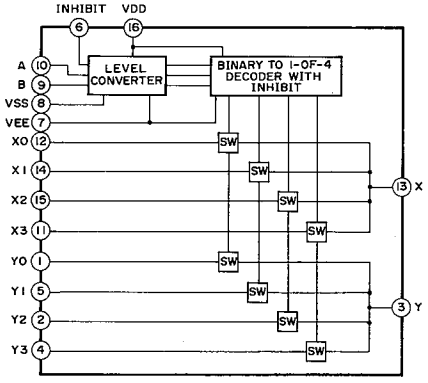


IC11 : LB1294
LED Driver

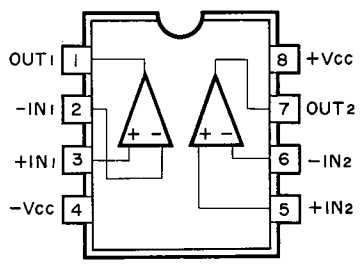


IC213 : μPD4052BC
Differential 4-Channel Multiplexer / Demultiplexer





IC610 : JRC4558DV
Dual Ope-amp

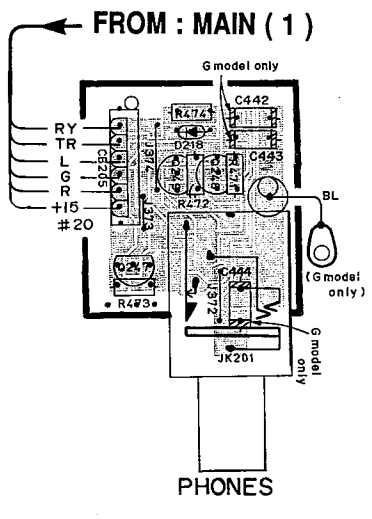


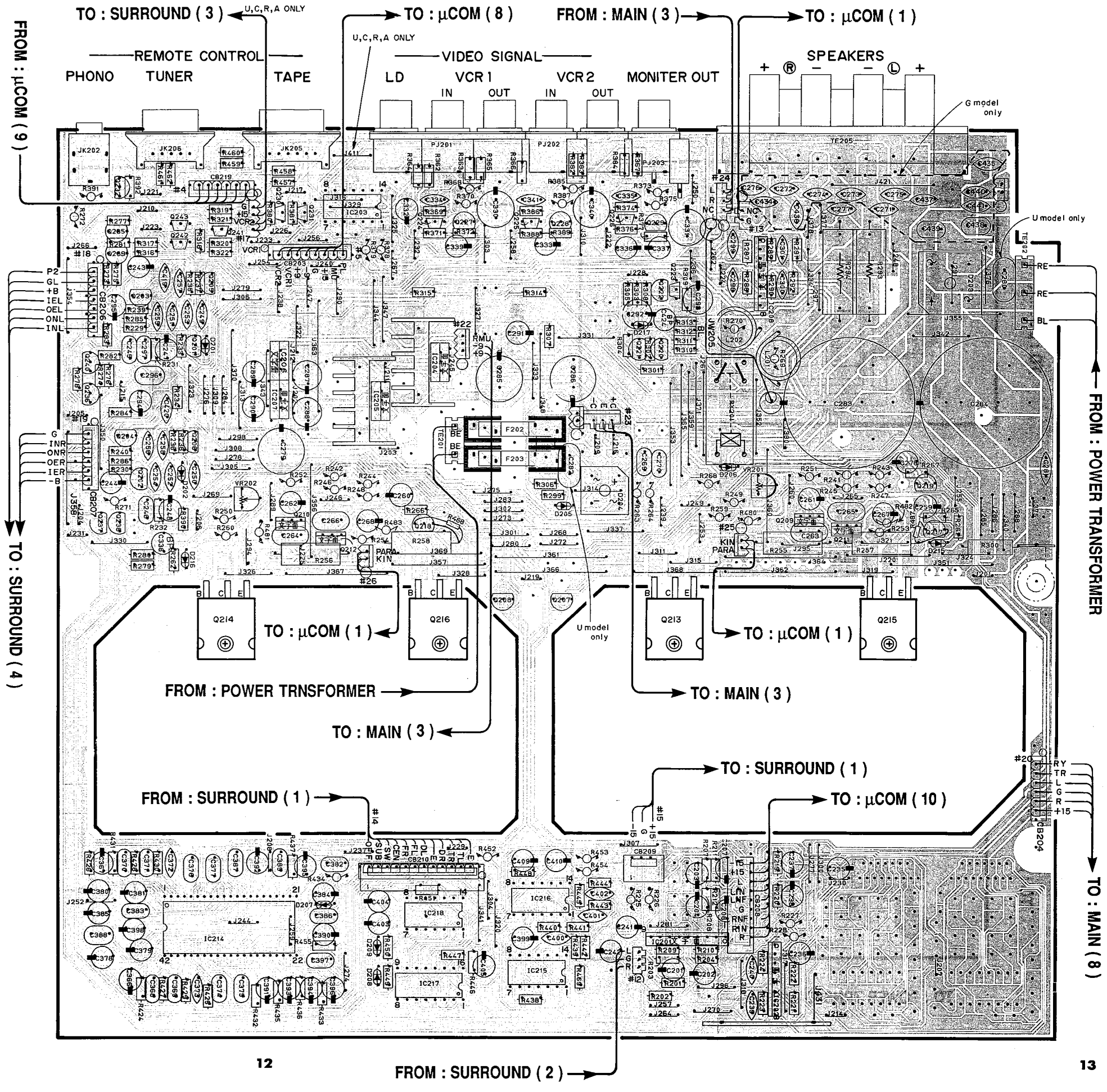
■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

MAIN C. B (1)

MAIN C. B (8)

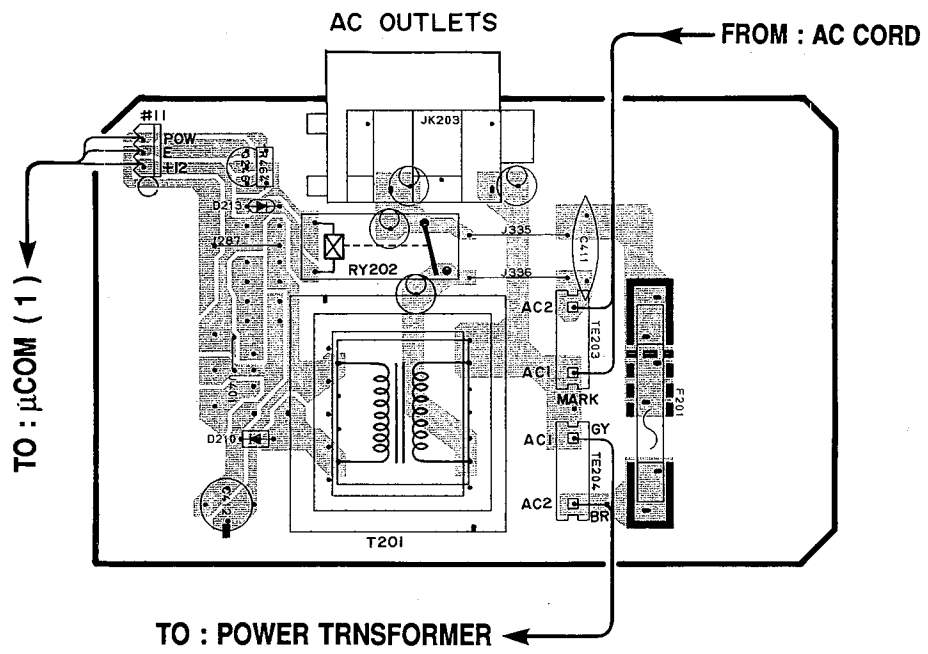




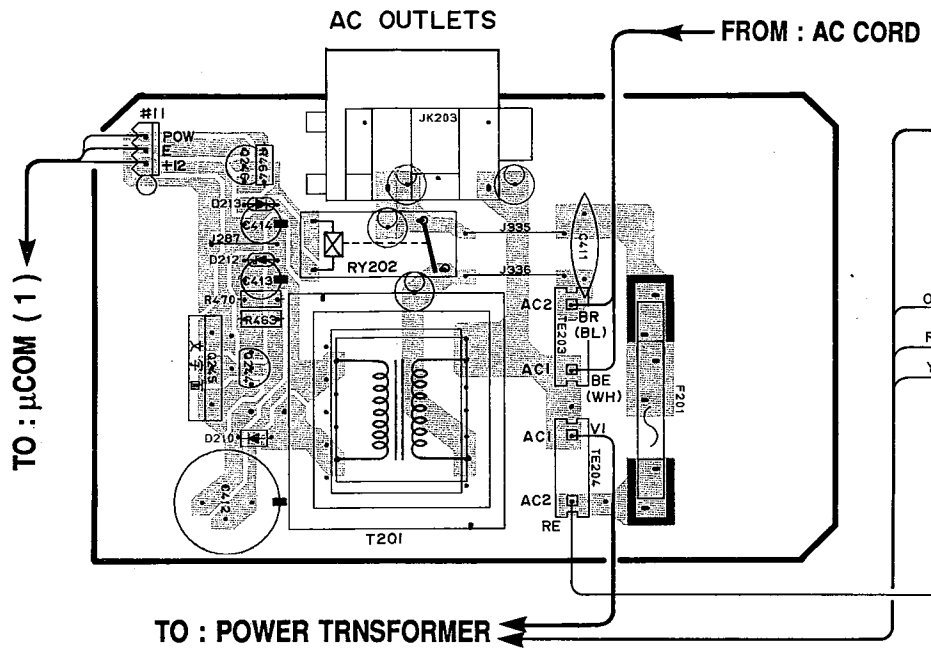
■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

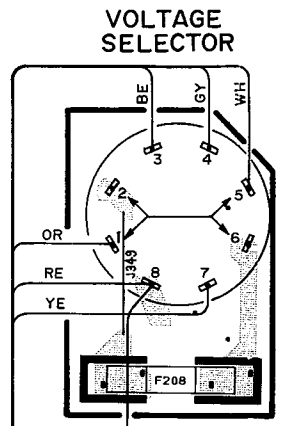
MAIN C. B (2)
U. C models



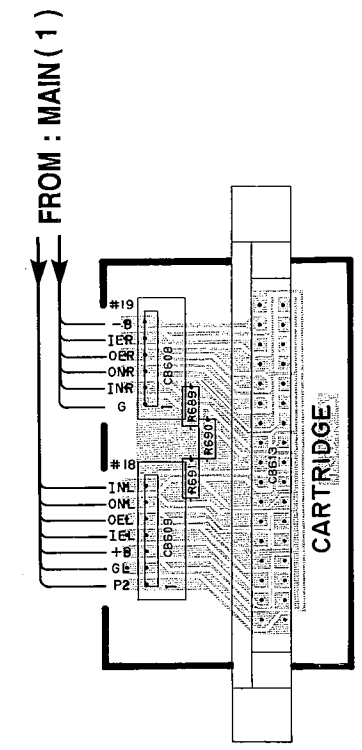
MAIN C. B (2)
R model



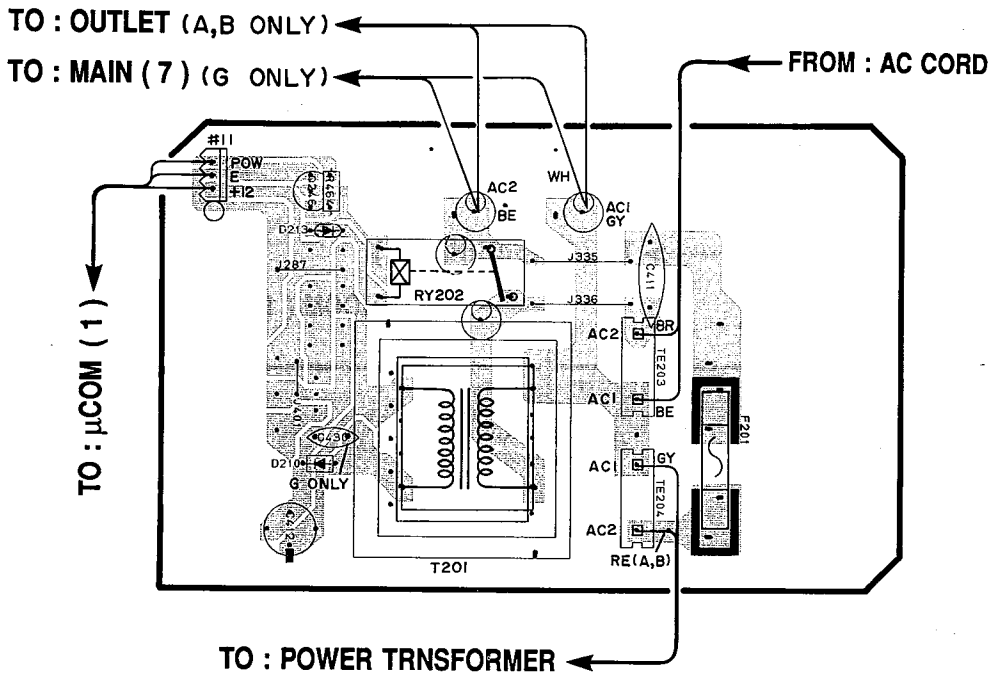
MAIN C. B (6)



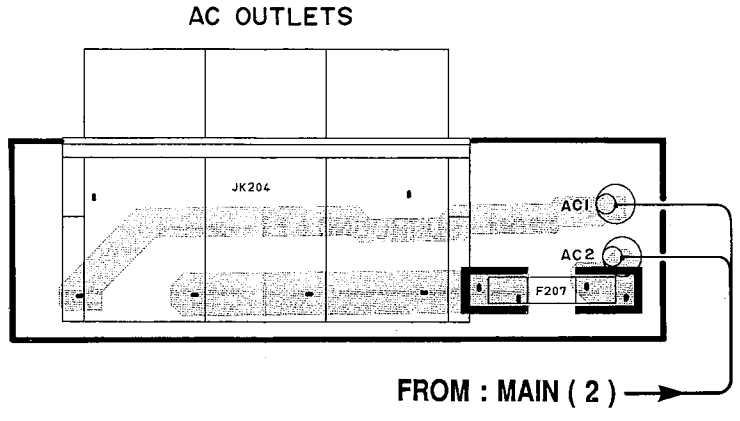
SURROUND C. B (4)



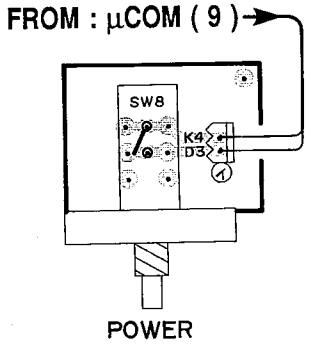
MAIN C. B (2)
A. B. G models



µ-COM C. B (7)
G model only



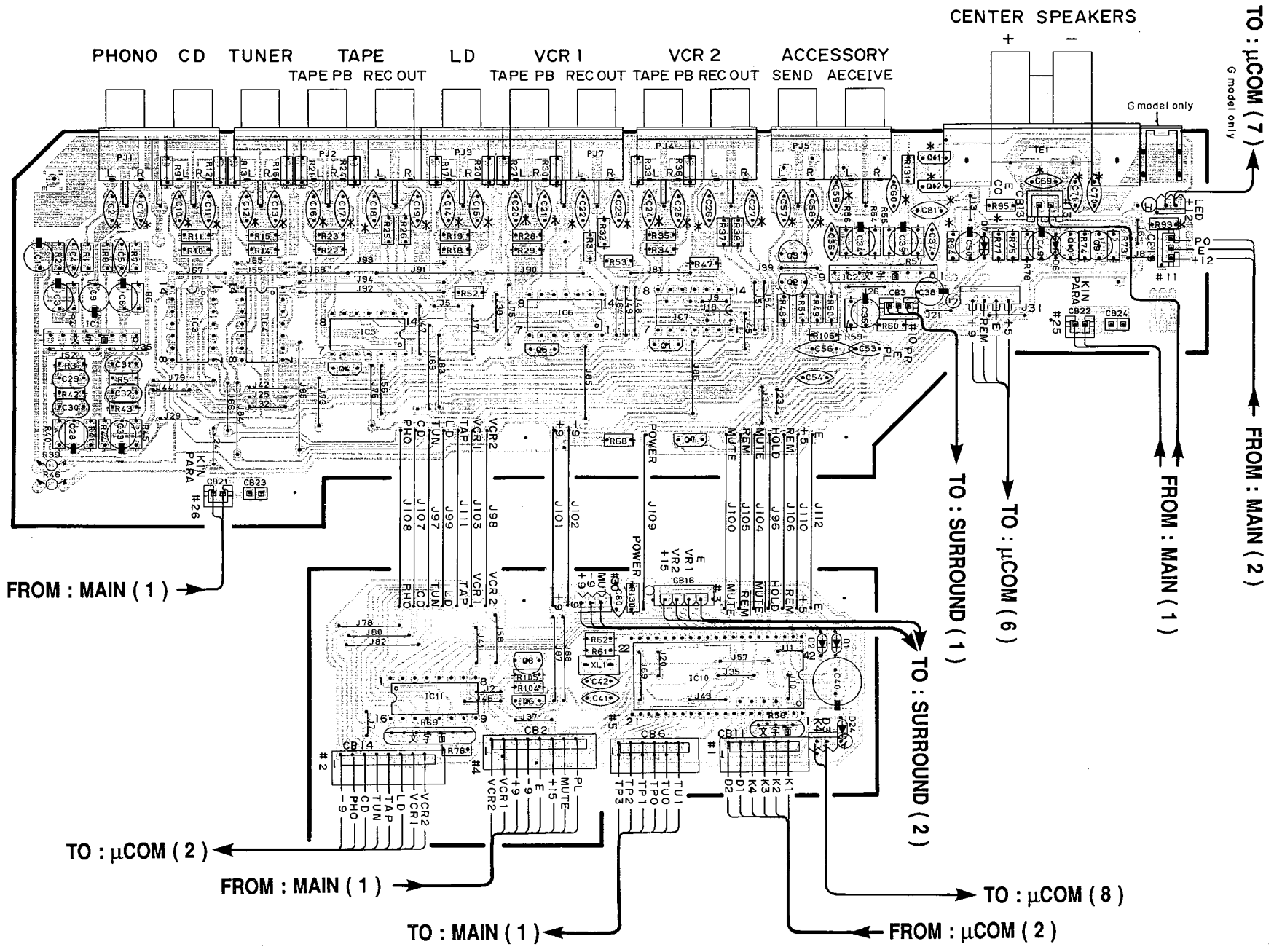
µ-COM C. B (8)



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

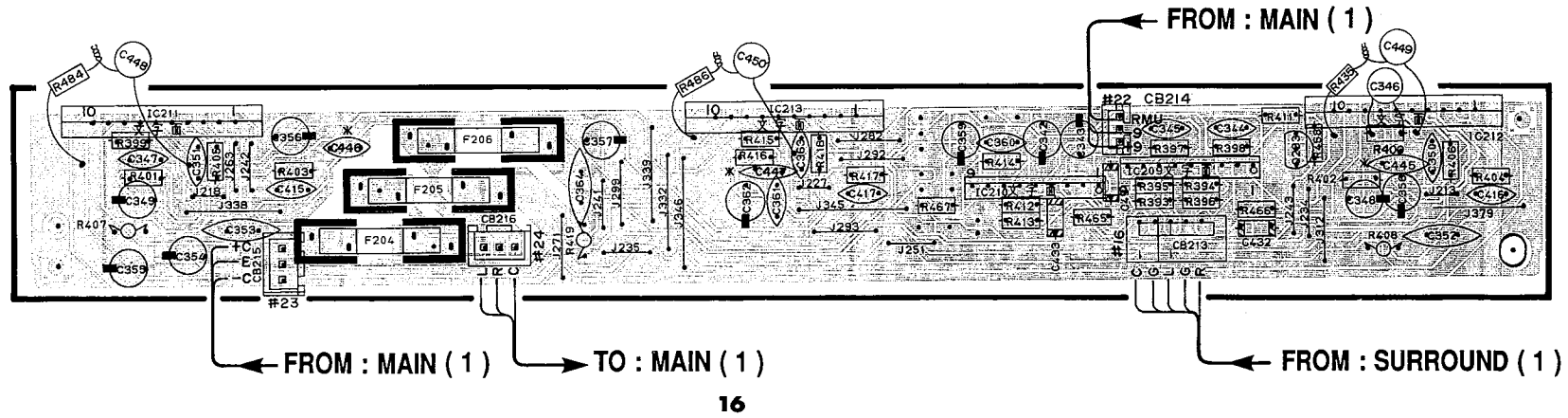
μ-COM C. B (1)



Note) ✱ marked

	U,C,R,A,B	G
C 2,7	OPEN	220P
C69~71	OPEN	0.022
R93	OPEN	3.3 K
R94,95	OPEN	4.7 K
Q11,12	OPEN	2SC1740S(SR) or 2SC2603(E.F) or 2SC3311A(Q.R.S)
C81	OPEN	0.01
R131	OPEN	2.2
C18,19,22 23,26,27	OPEN	100P
C10~17 20,21 24,25 57~60	OPEN	220P

MAIN C. B (3)



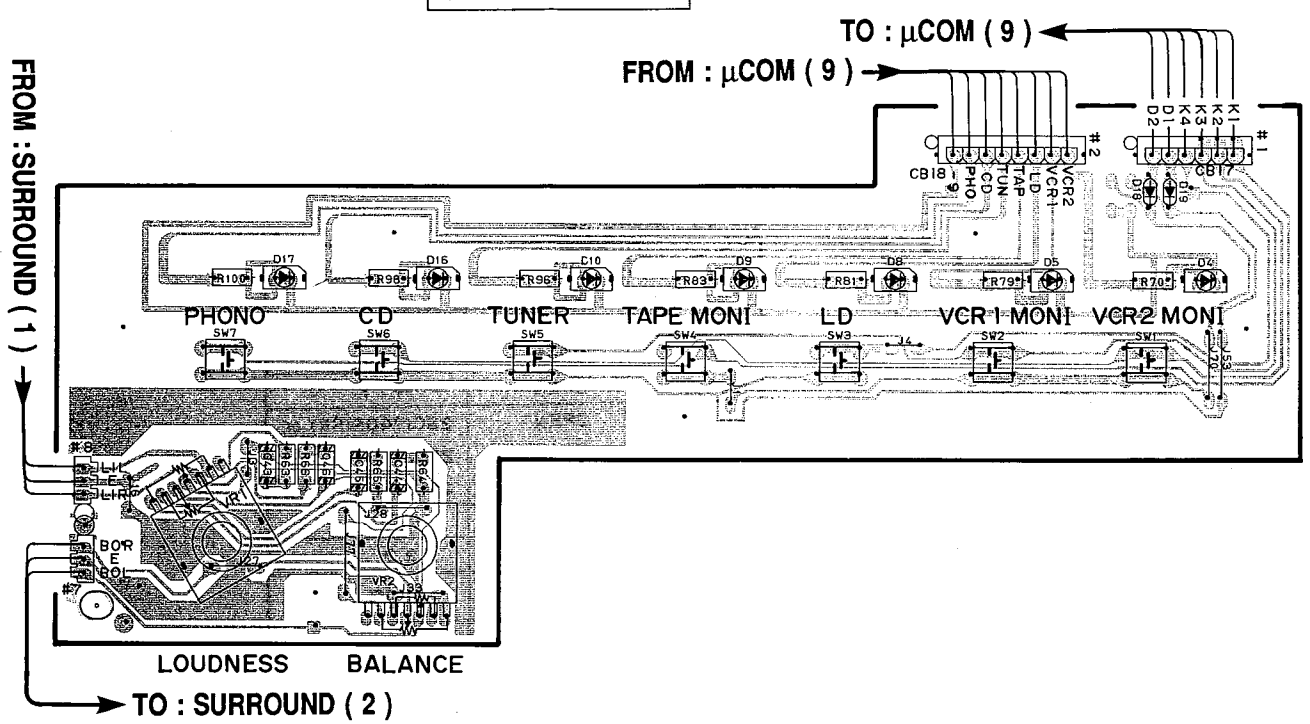
Note) ✱ marked

	U,C,R,A,B	G
C445~447	OPEN	220P

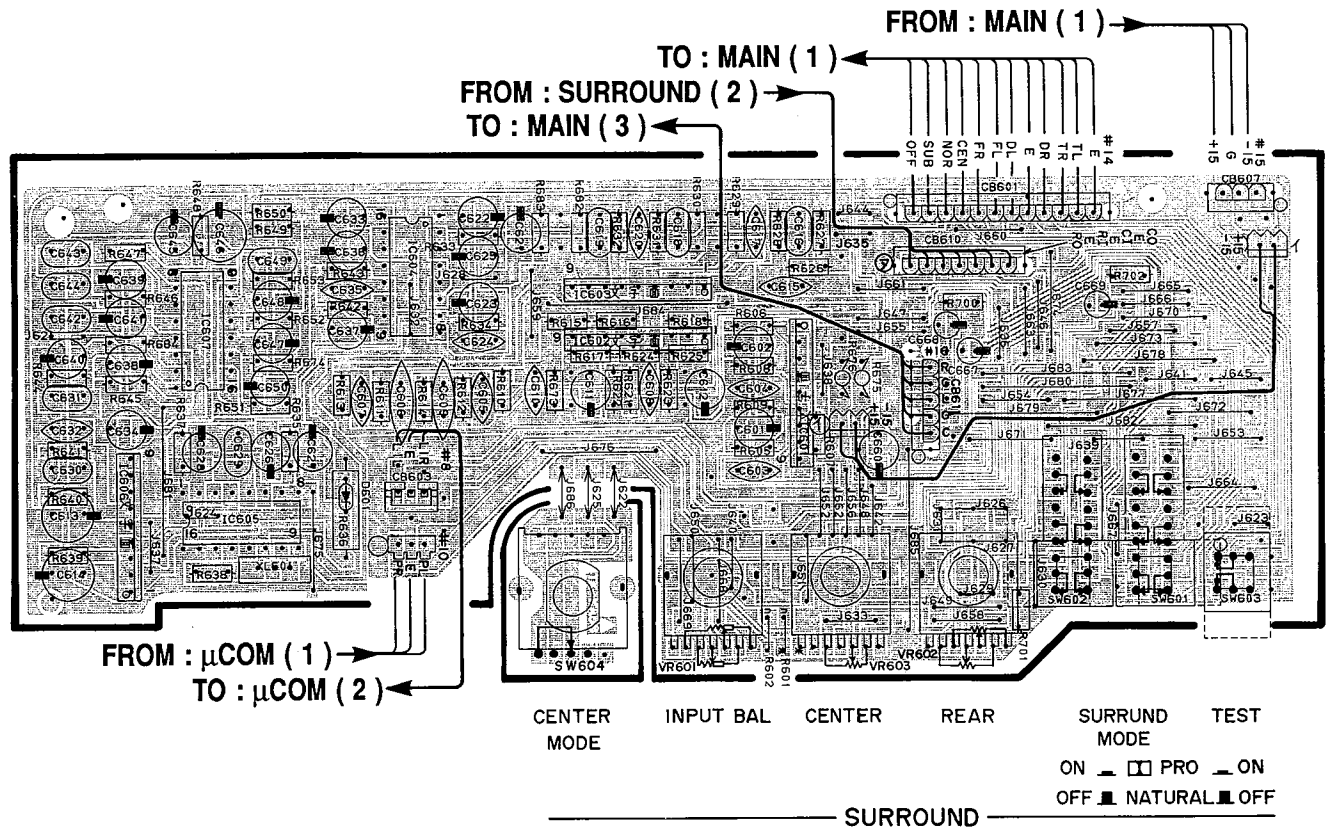
■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

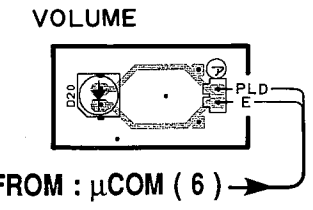
µ-COM C. B (2)



SURROUND C. B (1)

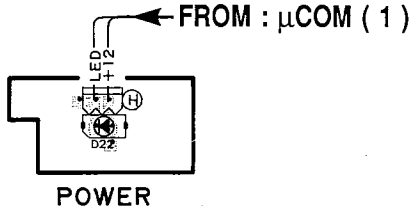


µ-COM C. B (5)

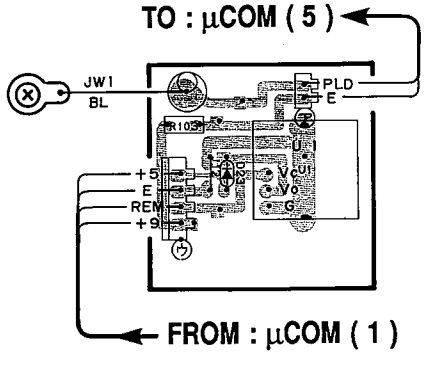


µ-COM C. B (7)

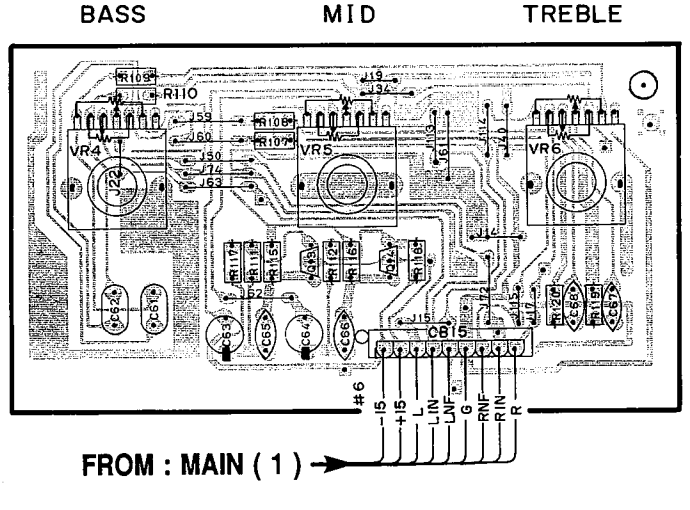
G model only



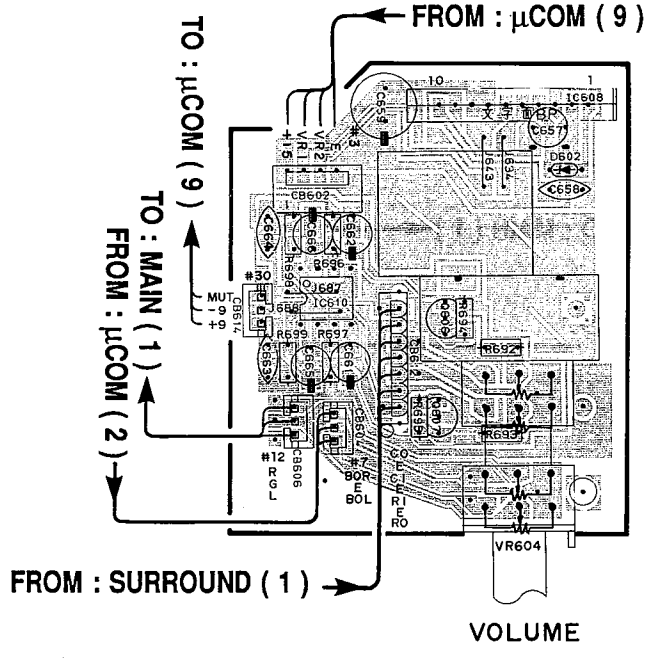
µ-COM C. B (6)



µ-COM C. B (10)

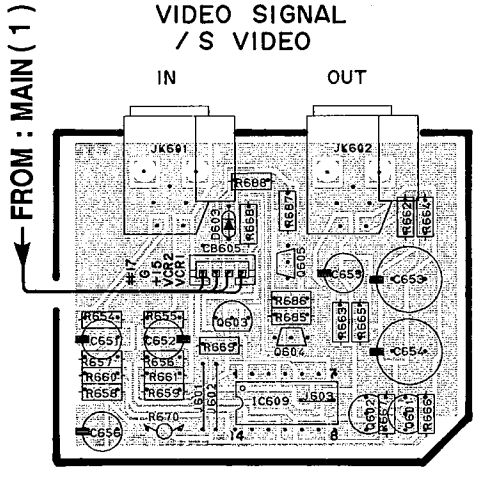


SURROUND C. B (2)

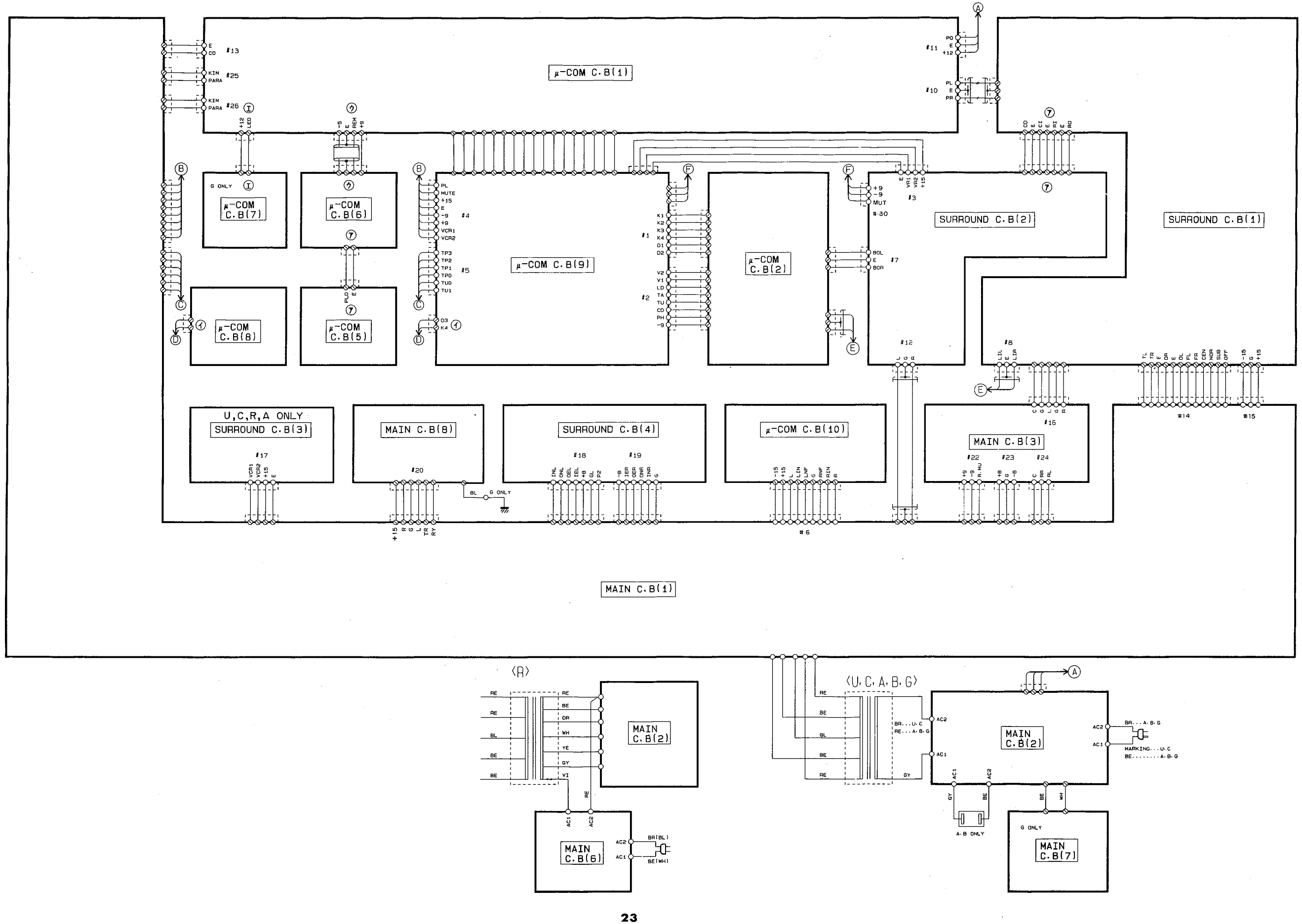


SURROUND C. B (3)

U, C, R, A models only



■ INTERCONNECT WIRING DIAGRAM



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 (1/6W 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			部品名	Remarks	Markets	ランク
*	VI641300	MAIN CIRCUIT BOARD			メインシート		U	
*	VI641400	MAIN CIRCUIT BOARD			メインシート		C	
*	VI641500	MAIN CIRCUIT BOARD			メインシート		R	
*	VI641600	MAIN CIRCUIT BOARD			メインシート		A	
*	VJ004100	MAIN CIRCUIT BOARD			メインシート		B	
*	VI641700	MAIN CIRCUIT BOARD			メインシート		G	
	FA153100	MYLAR FILM CAP	1000pF	50V	マイラーコン	C245,246,296,297		
	FA153680	MYLAR FILM CAP	6800pF	50V	マイラーコン	C382,383		
	FA154470	MYLAR FILM CAP	0.047uF	50V	マイラーコン	C296,270		
	FA155100	MYLAR FILM CAP	0.1uF	50V	マイラーコン	C368-371		
	FA155150	MYLAR FILM CAP	0.15uF	50V	マイラーコン	C376,377		
	FA155220	MYLAR FILM CAP	0.22uF	50V	マイラーコン	C386-389		
	FA155330	MYLAR FILM CAP	0.33uF	50V	マイラーコン	C374,375		
	FA155470	MYLAR FILM CAP	0.47uF	50V	マイラーコン	C397		
	FA155470	MYLAR FILM CAP	0.47uF	50V	マイラーコン	C438,439	G	
	UT452100	POLYPROPYLENE FILM CAP	100pF	100V	ＰＰコン	C263-266		
	UT454100	POLYPROPYLENE FILM CAP	0.01uF	100V	ＰＰコン	C280,282	U,C,R,A,B	
	VG278400	CERAMIC CAP	220pF	50V	円筒セラコン	C431-433		
	VF467300	CERAMIC CAP	0.01uF	16V	円筒セラコン	C442,443	G	
	VG280100	CERAMIC CAP	0.022uF	25V	円筒セラコン	C444	G	
	FG211100	CERAMIC CAP	10pF	50V	セラコン	C255-258		
	FG211100	CERAMIC CAP	10pF	50V	セラコン	C419,420	U,C,R,A,B	
	FG211220	CERAMIC CAP	22pF	50V	セラコン	C419,420	G	
	FG211150	CERAMIC CAP	15pF	50V	セラコン	C239,240,251-254		
	FG211220	CERAMIC CAP	22pF	50V	セラコン	C334,335,341,415-417		
	FG211470	CERAMIC CAP	47pF	50V	セラコン	C344,345,360		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C350,351,363		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C298,299	U,C,R,A,B	
	FG212560	CERAMIC CAP	560pF	50V	セラコン	C298,299	G	
	FG212220	CERAMIC CAP	220pF	50V	セラコン	C445-447	G	
	FG212680	CERAMIC CAP	680pF	50V	セラコン	C372,373		
	FG213100	CERAMIC CAP	1000pF	50V	セラコン	C448-450	G	
	FG213150	CERAMIC CAP	1500pF	50V	セラコン	C249,250		
	FG413220	CERAMIC CAP	2200pF	50V	セラコン	C346,347,361		
	FG413220	CERAMIC CAP	2200pF	50V	セラコン	C300,301	G	
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C400-402		
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C275,276,434,435	G	
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C271-274,297,436,437	G	
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C275,276	U,C,R,A,B	
	FG244470	CERAMIC CAP	0.047uF	50V	セラコン	C430,440,441	G	
	FG244470	CERAMIC CAP	0.044uF	50V	セラコン	C352,353,364		
	UH218220	ELECTROLYTIC CAP	220uF	6.3V	ケミコン	C292		
	UH028100	ELECTROLYTIC CAP	100uF	10V	ケミコン	C336,337		
	UH137100	ELECTROLYTIC CAP	10uF	16V	ケミコン	C203,204,237,238,342,343		
	UH137100	ELECTROLYTIC CAP	10uF	16V	ケミコン	C414	R	
	UH237330	ELECTROLYTIC CAP	33uF	16V	ケミコン	C398,293		
	UH237470	ELECTROLYTIC CAP	47uF	16V	ケミコン	C241,242,332,333,339,385,391		
	UH237470	ELECTROLYTIC CAP	47uF	16V	ケミコン	C413	R	

※New Parts（新規部品）　　ランク：Japan only

Ref. NO.	PART NO.	Description			部品名	Remarks	Markets	ランク
	UH238220	ELECTROLYTIC CAP	220uF	16V	ケミコン	C384		
	UH138100	ELECTROLYTIC CAP	100uF	16V	ケミコン	C356		
	UJ147330	ELECTROLYTIC CAP	33uF	25V	ＢＰケミコン	C424		
	UH147100	ELECTROLYTIC CAP	10uF	25V	ケミコン	C207,208,366,367,405,393-396		
	UH147220	ELECTROLYTIC CAP	22uF	25V	ケミコン	C243,244,287-290,348,349,362		
	UH148100	ELECTROLYTIC CAP	100uF	25V	ケミコン	C294,295		
	UJ148470	ELECTROLYTIC CAP	470uF	25V	ケミコン	C412	U,C,A,B,G	
	UW878470	ELECTROLYTIC CAP	470uF	63V	ケミコン	C412	R	
	UH157470	ELECTROLYTIC CAP	47uF	35V	ケミコン	C259-262		
	UH265100	ELECTROLYTIC CAP	0.1uF	50V	ケミコン	C291		
	UH166100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C278,399,409,410		
	UH166220	ELECTROLYTIC CAP	2.2uF	50V	ケミコン	C403,404		
	UH166330	ELECTROLYTIC CAP	3.3uF	50V	ケミコン	C201,202		
	UH166470	ELECTROLYTIC CAP	4.7uF	50V	ケミコン	C235,236,378-381,390,392		
	UJ167100	ELECTROLYTIC CAP	10uF	50V	ケミコン	C354,355		
	VG291100	ELECTROLYTIC CAP	33uF	50V	ケミコン	C247,248,267,268,357-359		
	UH129100	ELECTROLYTIC CAP	1000uF	10V	ケミコン	C330,331,340		
	UW888220	ELECTROLYTIC CAP	220uF	80V	ケミコン	C279		
*	VE681400	ELECTROLYTIC CAP	3300uF	35V	ケミコン	C285,286		⚠
	VI661000	ELECTROLYTIC CAP	10000uF	63V	ケミコン	C283,284		⚠
	UK337100	ELECTROLYTIC CAP	10uF	16V	ＢＰケミコン	C338		
	FI514100	CERAMIC CAP	0.01uF	VA-1	スパークキラーコン	C411		
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF	25V	半導体セラコン	C281		
*	XG809A00	SUB TRANSFORMER			サブトランス	T201	U,C	⚠
	XC082001	SUB TRANSFORMER			サブトランス	T201	R	⚠
	XC084001	SUB TRANSFORMER			サブトランス	T201	A,B,G	⚠
	GD900470	COIL	RZ-001	1.5uH	クウシンコイル	L201,202		
	HV453220	FLAME PROOF CARBON RESISTOR	2.2Ω	1/4W	不燃化カーボン抵抗	R391,480-483		
	HV453470	FLAME PROOF CARBON RESISTOR	4.7Ω	1/4W	不燃化カーボン抵抗	R263,264,269,270		
	HV454100	FLAME PROOF CARBON RESISTOR	10Ω	1/4W	不燃化カーボン抵抗	R271,272,407,408,419,225,226		
	HV454150	FLAME PROOF CARBON RESISTOR	15Ω	1/4W	不燃化カーボン抵抗	R268		⚠
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω	1/4W	不燃化カーボン抵抗	R378,379		
	HV454680	FLAME PROOF CARBON RESISTOR	68Ω	1/4W	不燃化カーボン抵抗	R434		
	HV455100	FLAME PROOF CARBON RESISTOR	100Ω	1/4W	不燃化カーボン抵抗	R227,228		
	HV455150	FLAME PROOF CARBON RESISTOR	150Ω	1/4W	不燃化カーボン抵抗	R453,454		
	HV455220	FLAME PROOF CARBON RESISTOR	220Ω	1/4W	不燃化カーボン抵抗	R452		
	HV455270	FLAME PROOF CARBON RESISTOR	270Ω	1/4W	不燃化カーボン抵抗	R370,375,387		
	HV455330	FLAME PROOF CARBON RESISTOR	330Ω	1/4W	不燃化カーボン抵抗	R253,254,368,373,385		
	HV455820	FLAME PROOF CARBON RESISTOR	820Ω	1/4W	不燃化カーボン抵抗	R251,252		
	HV456120	FLAME PROOF CARBON RESISTOR	1.2KΩ	1/4W	不燃化カーボン抵抗	R259,260		
	HV456330	FLAME PROOF CARBON RESISTOR	3.3KΩ	1/4W	不燃化カーボン抵抗	R249,250		
	HV457120	FLAME PROOF CARBON RESISTOR	12KΩ	1/4W	不燃化カーボン抵抗	R241-248		
	VH004000	METAL FILM RESISTOR	470Ω	1/4W	金属皮膜抵抗	R291,292		
	VH004800	METAL FILM RESISTOR	1KΩ	1/4W	金属皮膜抵抗	R289,290		
	HU576360	METAL FILM RESISTOR	3.6KΩ	1/4W	金属皮膜抵抗	R287,288		

※New Parts（新規部品）　　ランク：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ＩＣ	IC204		⚠
✻	XB467A00	IC	AN79M15F	電源ＩＣ	IC205	C	⚠
	XF635A00	IC	AN78M09F	電源ＩＣ	IC206		⚠
	XF637A00	IC	AN79M09F	電源ＩＣ	IC207		⚠
	XH471A00	IC	M5218AL	ＩＣ	IC202,208		
	XB247301	IC	UPC4570HA	ＩＣ	IC201		
	iG076800	IC	NJM4558S	ＩＣ	IC209,210		
	iG102700	IC	UPC1188H	ＩＣ	IC211-213		
	XE473001	IC	UPC4074C	ＩＣ	IC216		
	XG497A00	IC	LA2770	ＩＣ	IC214		
	XD148001	IC	BU4066B	ＩＣ	IC203		
	iG001720	IC	TC4069UBP	ＩＣ	IC215		
	iG055800	IC	HD14013B	ＩＣ	IC218		
	XA070A00	IC	UPD4052BC	ＩＣ	IC217		
	VD506000	RELAY	AC DG12D1-O(M)	リレー	RY202		⚠
	KC001940	RELAY	DC DH24D2-OT(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	
	VG741600	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-AOAA	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	ＳＴコネクターソケット	JK206		
	LB608390	SOCKET	6P	ＳＴ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ＶＲ	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, 249			
	VE919600	TRANSISTOR	2SC2925 T	トランジスタ	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	デジトラ	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		ラジエター				
※	Vi913500	SHIELD PLATE		シールトﾞプﾟレート				
※	Vi642600	SURROUND CIRCUIT BOARD		サラウンドシート		U,C,R,A		
※	Vi685500	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		
	UH028100	ELECTROLYTIC CAP	100uF 10V	ケミコン	C651,652	U,C,R,A	
	UH137100	ELECTROLYTIC CAP	10uF 16V	ケミコン	C665,666		
	UH237470	ELECTROLYTIC CAP	47uF 16V	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, 637,641,647,648,650		
	FM116100	ELECTROLYTIC CAP	1uF 50V	BPケミコン	C657		
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W	不燃化カーボン抵抗	R670	U,C,R,A	
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W	不燃化カーボン抵抗	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	MTZJ5.1A 5.1V	ツェナーダイオード	D601		
	VG437900	ZENER DIODE	MTZJ6.2A 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
#	Vi642200	μ-COM CIRCUIT BOARD		マイコンシート		U,C,R,A,B	
#	Vi642300	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）

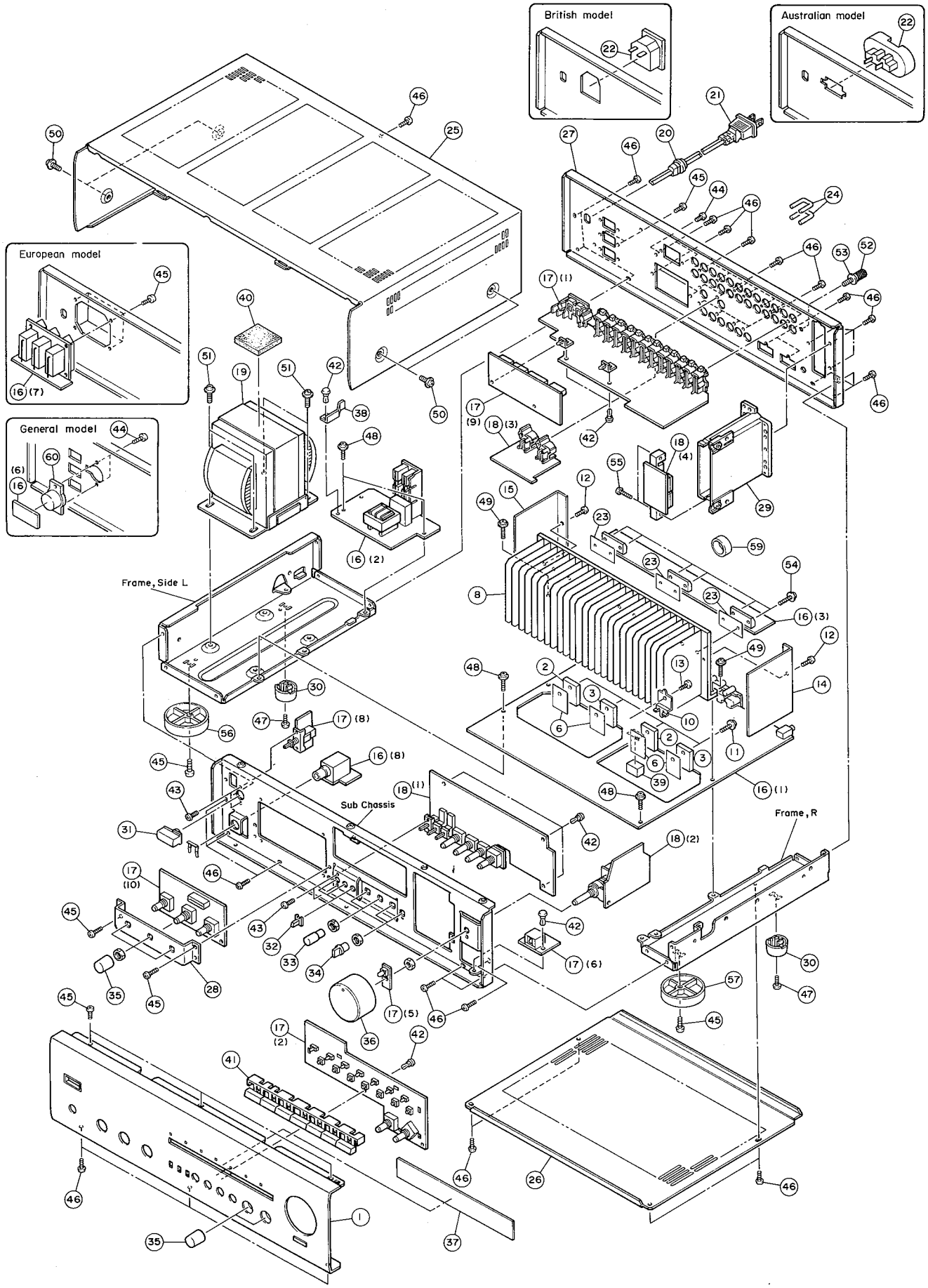
ランク：Japan only

Ref. NO.	PART NO.	Description		部品名	Remarks	Markets	ランク
	LB918020	BASE PIN	2P	ベーススツキポスト	CB13		
	Vi583600	CERAMIC RESONATOR	400K EFO-A400K	セラミック振動子	XL1		
	Vi136900	POTENTIOMETER	B50KΩ	二連ロータリーVR	VR1		
	Vi137000	POTENTIOMETER	BH50KΩ	二連ロータリーVR	VR2		
	Vi690700	POTENTIOMETER	B50KΩ	二連ロータリーVR	VR4-6		
	iA101521	TRANSISTOR	2SA1015 Y	トランジスタ	Q8,10		
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q13,14		
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q11,12	G	
	iC206000	TRANSISTOR	2SC2060	トランジスタ	Q9		
	iC287820	TRANSISTOR	2SC2878 A,B	トランジスタ	Q2,3		
	VD678500	DIGITAL TRANSISTOR	DTA114ES	デジタルトランジスタ	Q7		
	VD678700	DIGITAL TRANSISTOR	DTC114ES	デジタルトランジスタ	Q1,4-6		
	iF004600	DIODE	1SS133 T-77	ダイオード	D1,2,7,18,19,23,24		
	VG437600	ZENER DIODE	MTZJ5.6A 5.6V	ツェナーダイオード	D6		
	VF402500	LED	SLR-34DC3H3	LED	D8,10,16,17		
	VH293600	LED	SLR-55DC3H	LED	D20		
	Vi013600	LED	SLR-34VC3H3	LED	D4,5,9		
	Vi013600	LED	SLR-34VC3H3	LED	D22	G	
	CB091290	P.C.B SUPPORT	NO.1645	基板サポート			
	BB071360	TERMINAL,SCREW	8.3x13	ネジ端子		G	

※New Parts (新規部品)

ランク : Japan only

■ EXPLODED VIEW



■ MECHANICAL PARTS Note) Ø : 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	CM-22C	コードストッパー		U,C		
	20	CB620190	CORD STOPPER	CM-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 2M	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	VC626100	AC OUTLET		電源コネクタ		A		⚠
	22	VC627000	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

	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	トランレッグ			
	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	プラリベット			
	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	EX601150	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		レッグ L	BL		
*	56	Vi910300	LEG L		レッグ L	T		
*	57	Vi910700	LEG R		レッグ R	BL		
*	57	Vi910500	LEG R		レッグ 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

Ref. NO.	PART NO.	Description		部品名	Remarks	Markets	ランク	
60	VA932900	VOLTAGE SELECTOR	ESE-37226	電圧切替器		R		⚠
		ACCESSORIES		付属品				
*	Vi654600	REMOTE CONTROL TRANSMITTER		リモコントランスミッター		R,A,B,G,P		
	CX613770	LID		電池蓋		R,A,B,G,P		
		DRY CELL	UM-4,R03,AAA	マンガン電池		R,A,B,G,P		
*	Vi654500	REMOTE CONTROL TRANSMITTER		ラーニングリモコン		U,C		
		DRY CELL	SUM-3,R6,AA	マンガン電池		U,C		
	VH447900	ACCESSORIES	LABEL	付属品ＡＳＳＹ		U,C		
*	VD158600	ACCESSORIES		付属品ＡＳＳＹ				
	Mi081780	CORD WITH MINI-PLUG	1.2M	ミニプラグコード				
	VA945800	CONNECTOR	500MM	ハーネス				
	VA945900	CONNECTOR	500MM	ハーネス				

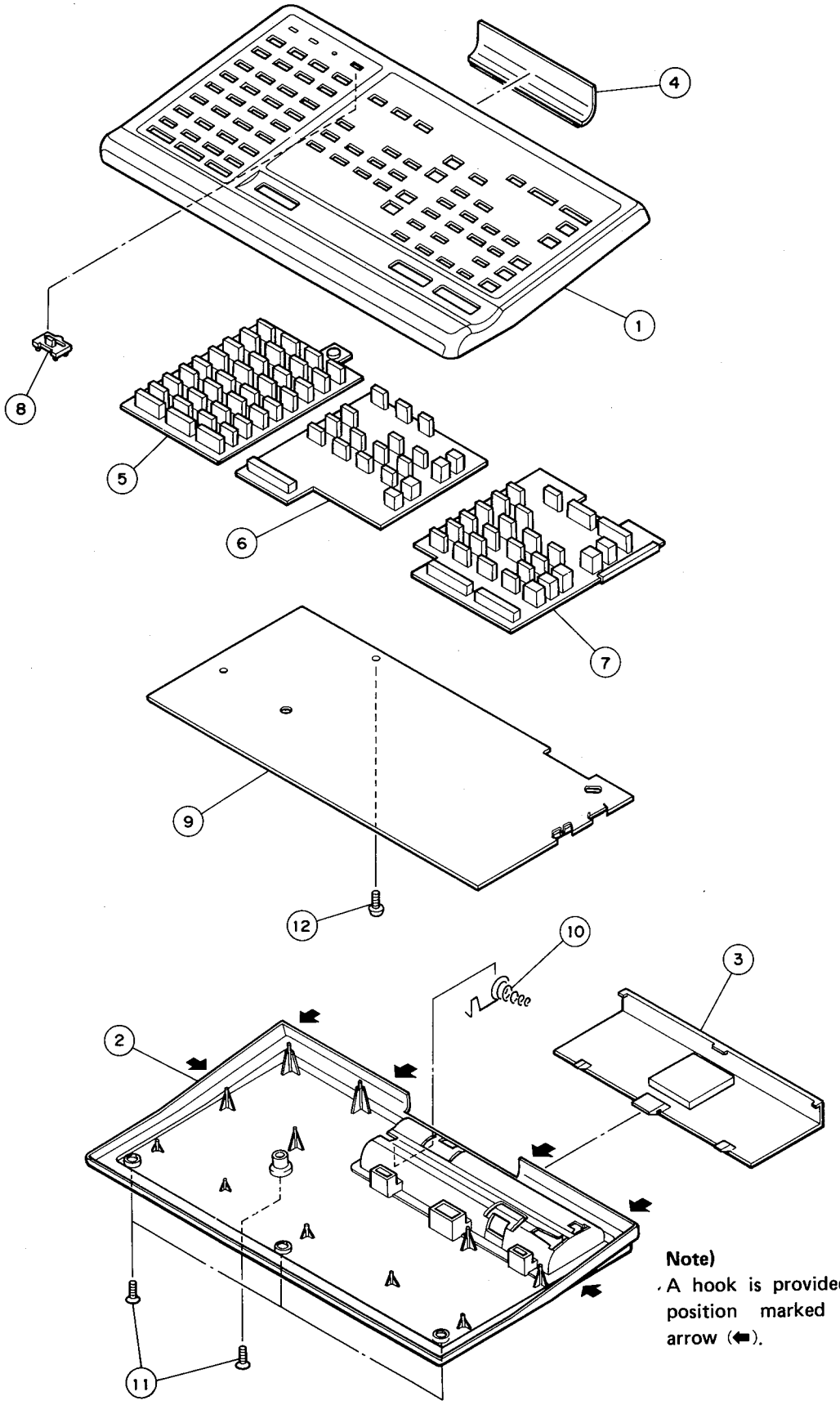
※New Parts（新規部品）

ランク：Japan only

REMOTE CONTROL TRANSMITTER

< U, C models>

■ EXPLODED VIEW

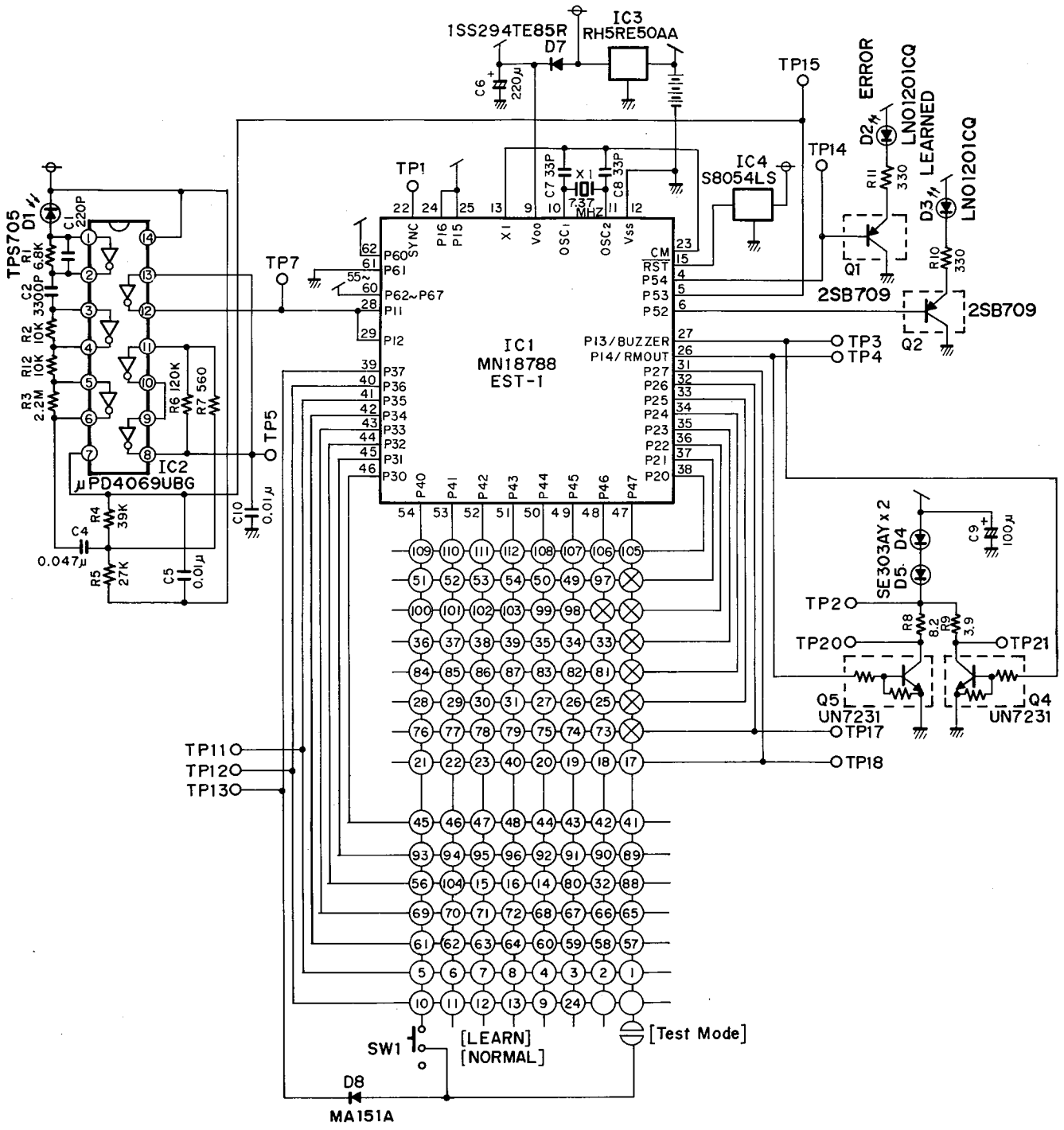


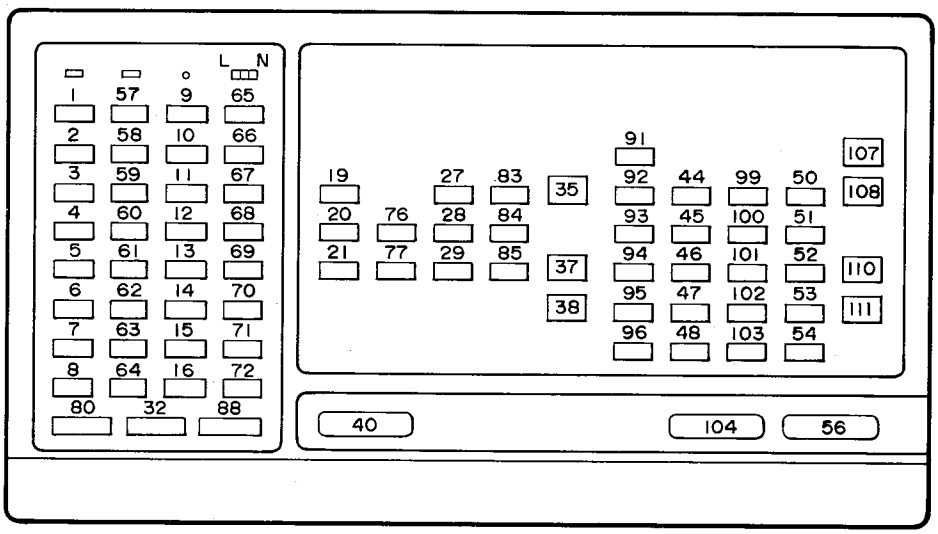
Note)
- A hook is provided at each position marked with an arrow (⬅).

■ PARTS LIST

	Ref. No.	Part No.	Description		部品名	Remarks	Markets	ランク
※		VI654500	Remoto Control Transmitter		リモートコントロールトランスミッター			
※	1	CX613920	Case(A)Ass'y		上ケース			
	2	CX611070	Case(B)		下ケース		UR66CS200E	
	3	CX611080	Lid		電池蓋		UR66EC201E	
	4	CX607950	Filter,Smoke		スモーク板		UR66SB257	
	5	CX611090	Rubber,Contact(A)		ゴム接点(A)		UR66CT202A	
※	6	CX613930	〃 (B)		〃 (B)		UR66CT203M	
※	7	CX613940	〃		〃		UR66CT204N	
	8	CX608090	Knob		ツマミ		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	2×6 FCRM3-BI	皿タッピングネジ	PACK	XTS2+6GFZ	
	12	EJ020056	Pan Head Tapping Screw	2×5 ZMC2-Y	ナベタッピングネジ	PACK	XTB2+5GFZ	
※		NX607640	P.C. Board Ass'y		プリント基板Ass'y		UR66VPB152	
		IX612280	Photo Diode	TPS705	フォトダイオード	D1		
		IX614280	LED(Red)	LN01201CQ	LED	D2,3		
		IX615900	LED	SE303AY	赤外線LED	D4,5		
		QX600270	Ceramic Resonator	CSA733MTTF	セラミック発振子	X1		
		UJ128220	Electrolytic Cap.	220μF 10V	ケミコン	C6		
		UJ128100	〃	100μF 10V	〃	C9		
		LX602530	Terminal Battery		電極板	−	UR66TD209	
		LX602540	〃		〃	+	UR66TD208	

■ SCHEMATIC DIAGRAM





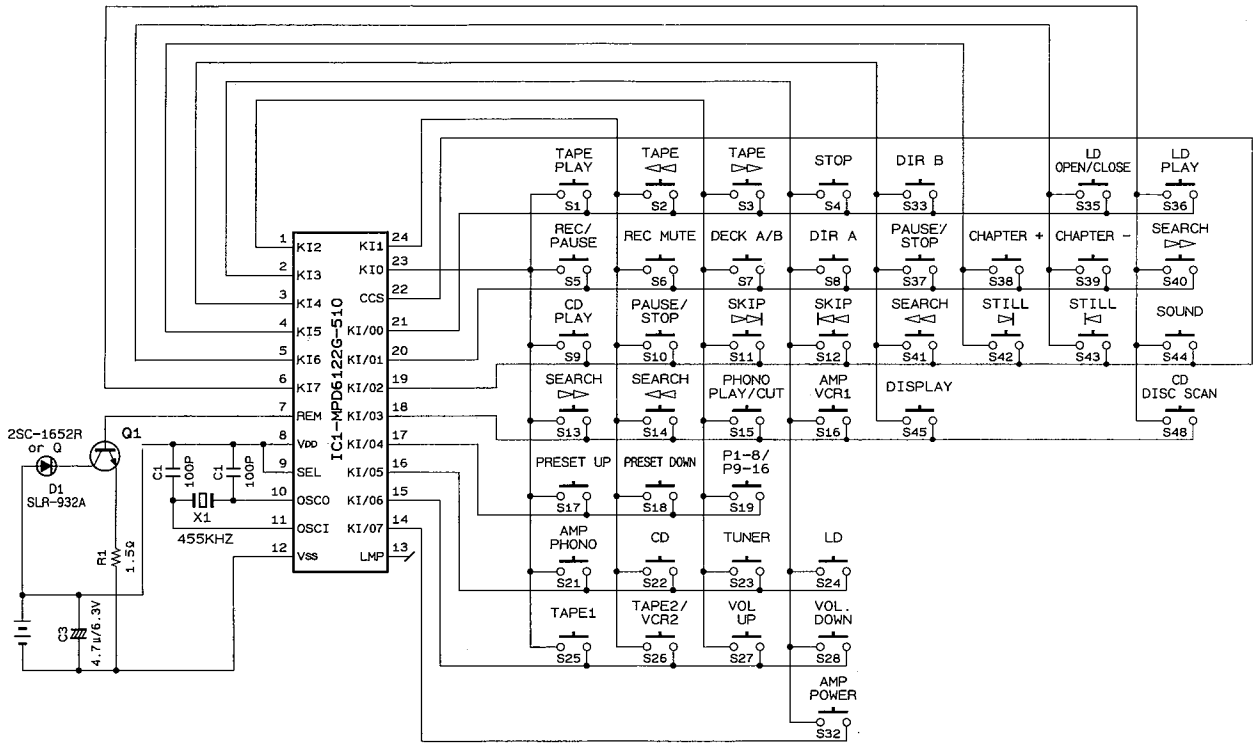
Key No.	CONTROL CODE	FUNCTION	Key No.	CONTROL CODE	FUNCTION
1~16		LEARNING	57~72		LEARNING
17	—	—	73	—	—
18	7A-1E	—	74	—	—
19	7C-01	LD OPEN/CLOSE	75	—	—
20	7C-02	LD CHAPTER "—"	76	7C-03	LD CHAPTER "+"
21	7C-0A	LD STILL ⏮	77	7C-0B	LD STILL ⏭
22	—	—	78	—	—
23	—	—	79	—	—
24	—	—	80		LEARNING
25	—	—	81	—	—
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	—	—

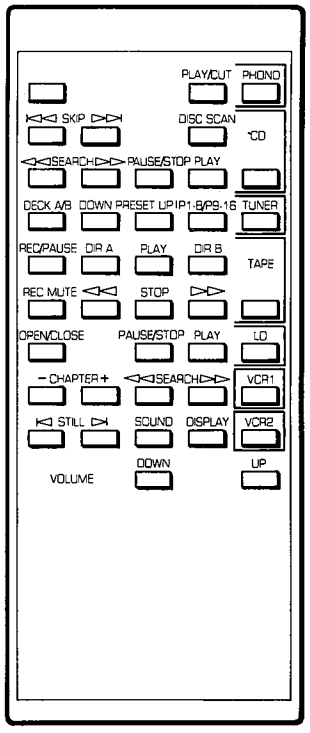
AVX-500

REMOTE CONTROL TRANSMITTER

< R, A, B, G models>

■ SCHEMATIC DIAGRAM



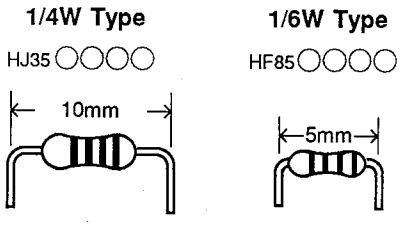


CUSTOM CODE C0 C1 C2 C3 C4 C5 C6 C7
0 1 0 1 1 1 1 0

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 ▷▷I
12	1	1	0	1	0	0	0	0	CD I◁◁ SKIP
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 ▷I
43	0	1	0	1	0	0	1	0	LD STILL I◁
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

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	12 KΩ	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 KΩ	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF85 3220	18 KΩ	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF85 3330	22 KΩ	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF85 3470	27 KΩ	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF85 3560	33 KΩ	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF85 4100	39 KΩ	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF85 4150	47 KΩ	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF85 4220	56 KΩ	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF85 4270	68 KΩ	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF85 4330	82 KΩ	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF85 4390	91 KΩ	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF85 4470	100 KΩ	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF85 4560	120 KΩ	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF85 4680	150 KΩ	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF85 4820	180 KΩ	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF85 5100	220 KΩ	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF85 5110	270 KΩ	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF85 5120	330 KΩ	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF85 5150	390 KΩ	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 KΩ	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF85 5180	560 KΩ	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF85 5220	680 KΩ	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF85 5270	820 KΩ	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF85 5330	1.0 MΩ	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF85 5390	1.2 MΩ	HJ35 9120	*
470 Ω	HJ35 5470	HF85 5470	1.5 MΩ	HJ35 9150	HF85 9150
510 Ω	*	HF85 5510	1.8 MΩ	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF85 5560	2.2 MΩ	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF85 5680	3.3 MΩ	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF85 5820	3.9 MΩ	HJ35 9390	*
910 Ω	HJ35 5910	HF85 5910	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

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)····· RP model

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	‡‡
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	‡
◎	POLYESTEL FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
Ⓜ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

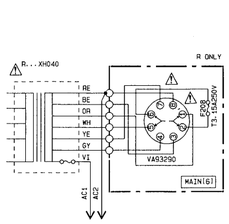
RESISTOR

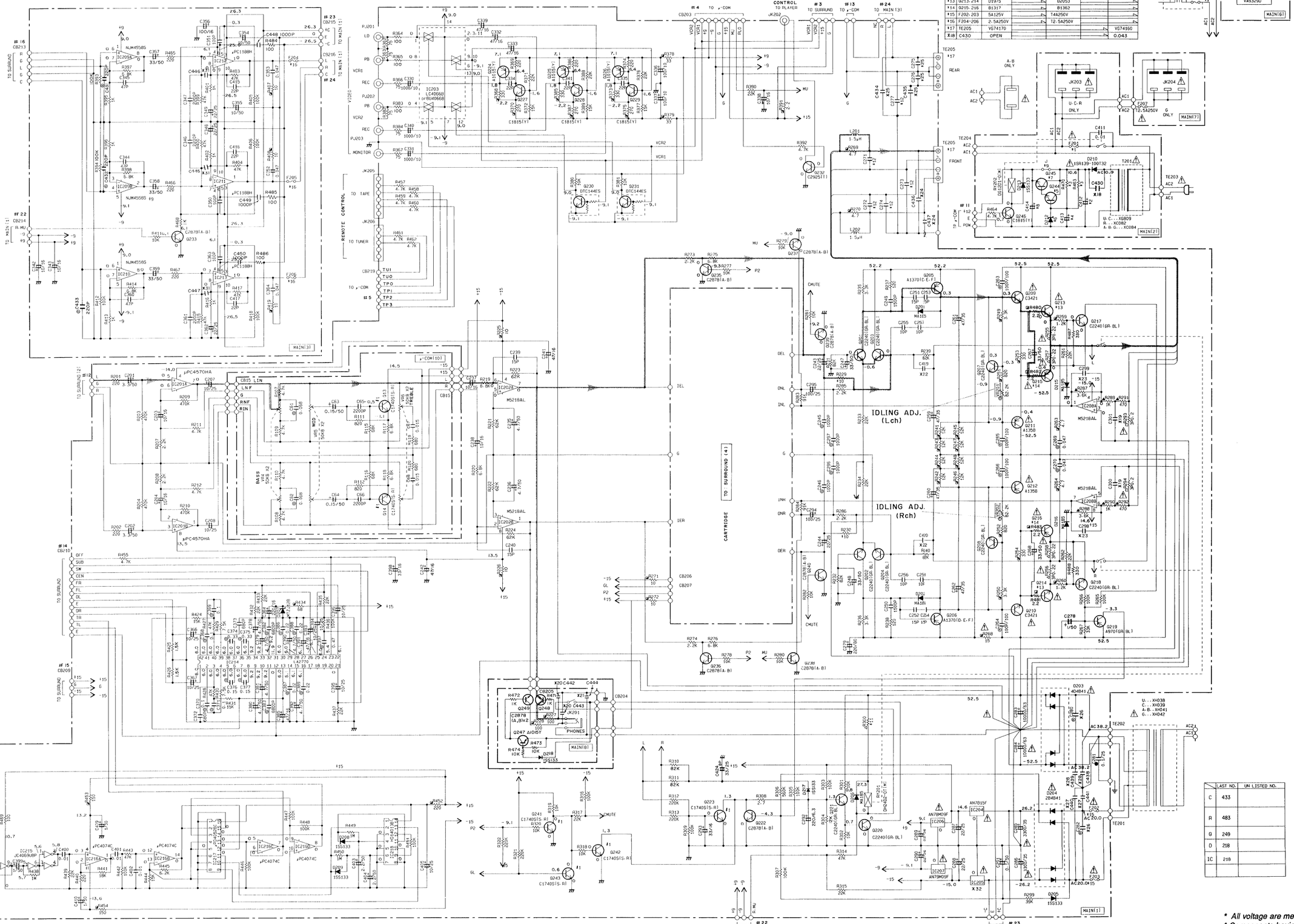
REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR	(1/6W)
⊘	CARBON FILM RESISTOR	(1/4W)
△	METAL OXIDE FILM RESISTOR	
⚠	METAL FILM RESISTOR	
⊠	METAL PLATE RESISTOR	
▨	FIRE PROOF CARBON FILM RESISTOR	
□	CEMENT MOLDED RESISTOR	
⊘	SEMI VARIABLE RESISTOR	
■	CHIP RESISTOR	

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
‡1	Q13, 14, 223-241-243	2SC1740S(S, R)
		2SC2603(E, F)
		2SC3311A(Q, R, S)

		U·C	R	A	B	G
‡1	F201	7A125V	7A250V	T2.5A250V		
‡2	C412	470/25	470/63	470/25		
‡3	R463, 470	OPEN	12K	OPEN		
‡4	C413	OPEN	47/16	OPEN		
‡5	Q244	OPEN	C2240(GR·BL)	OPEN		
‡6	D212	OPEN	MTZJ12C	OPEN		
‡7	Q245	OPEN	D1485(P, Q, R)	OPEN		
‡8	C414	OPEN	10/16	OPEN		
‡9	J	SHORT	OPEN	SHORT		
‡10	R229, 230	2.2K		4.7K		
‡11	R300	2P1.2K		2P560		
‡12	C271-276	OPEN				0.022
‡13	Q213, 214	D1975		D2053		
‡14	Q215, 216	B1317		B1362		
‡15	F202-203	5A125V		T4A250V		
‡16	F204-206	2.5A250V		T2.5A250V		
‡17	TE205	VG74170				VG74160
‡18	C430	OPEN				0.043

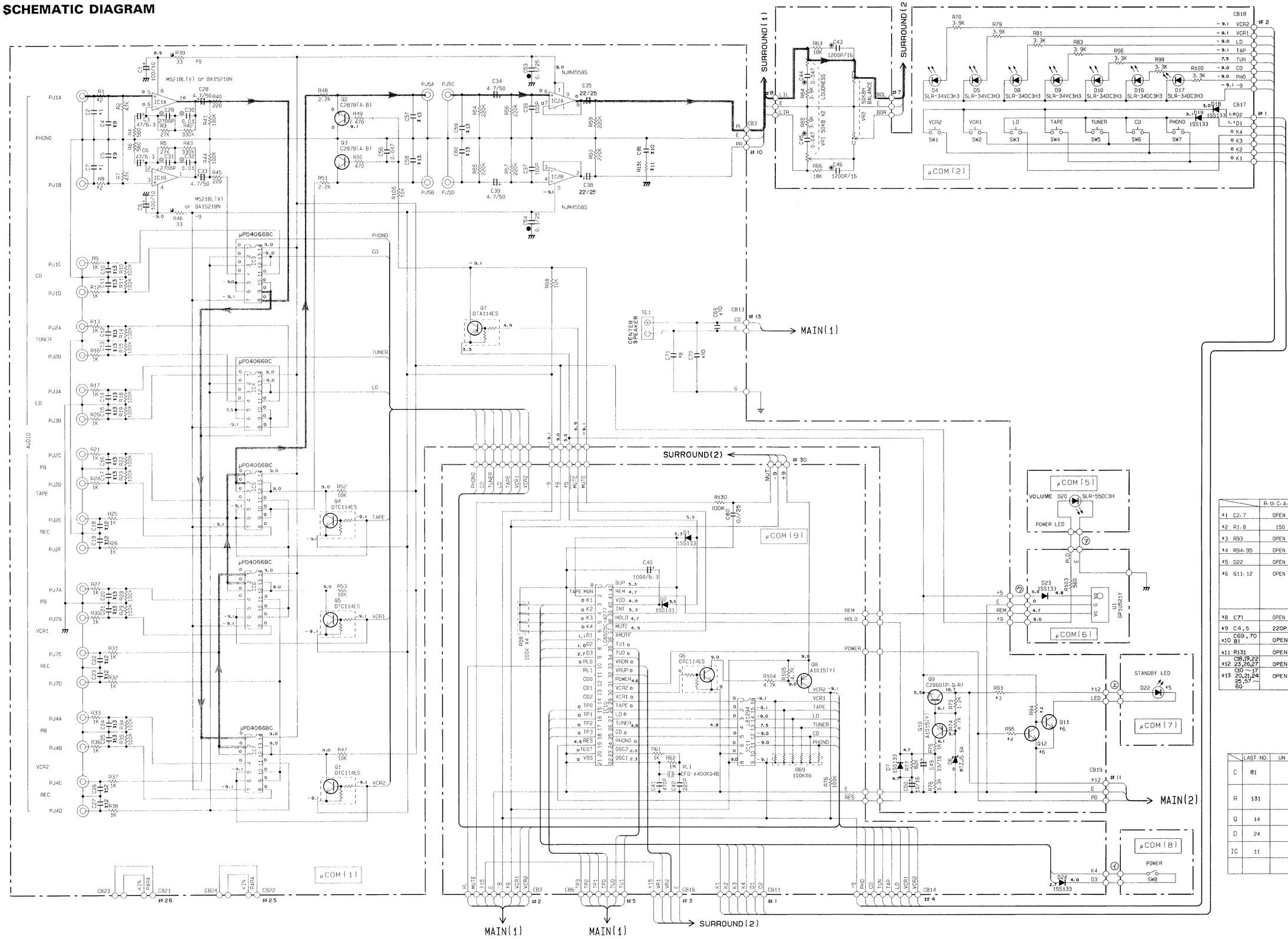




	LAST NO.	UN LISTED NO.
C	433	
R	483	
Q	249	
D	218	
IC	218	

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

■ SCHEMATIC DIAGRAM



	A·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(G.R.S)
*8 C71	OPEN	0.022
*9 C4,5	220P	330P
*10 C69,70 B1	OPEN	0.01
*11 R131	OPEN	2.2
*12 C18,19,22 23,26,27	OPEN	100P
*13 C10~17 20,21,24 25,57~60	OPEN	220P

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

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

CAPACITOR

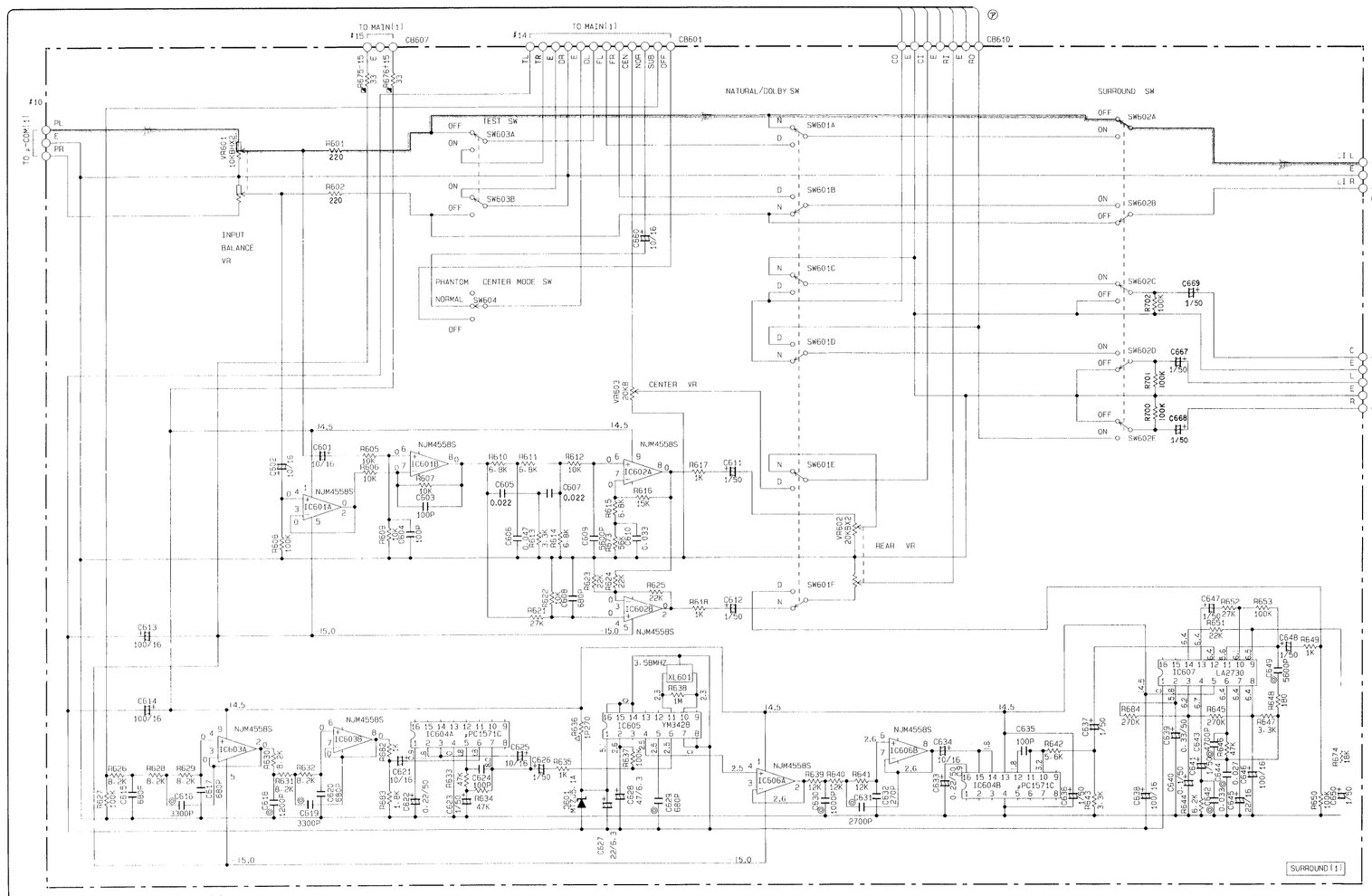
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	‖
⊗	TANTALUM CAPACITOR	‖
NO MARK	CERAMIC CAPACITOR	‖
◎	POLYESTEL FILM CAPACITOR	‖
○	POLYSTYRENE FILM CAPACITOR	‖
Ⓣ	MICA CAPACITOR	‖
Ⓟ	POLYPROPYLENE FILM CAPACITOR	‖
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	‖

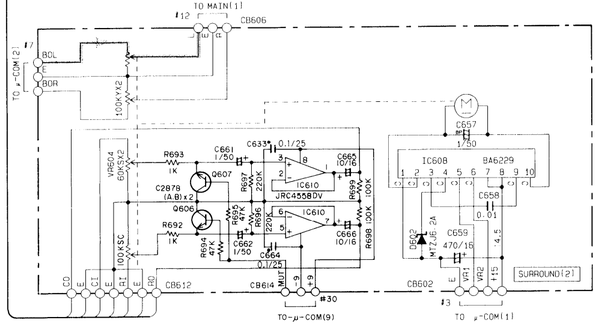
RESISTOR

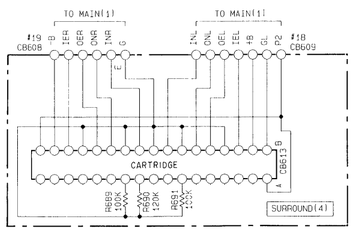
REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR	(1/6W)
▨	CARBON FILM RESISTOR	(1/4W)
△	METAL OXIDE FILM RESISTOR	
▲	METAL FILM RESISTOR	
⊠	METAL PLATE RESISTOR	
▨	FIRE PROOF CARBON FILM RESISTOR	
□	CEMENT MOLDED RESISTOR	
⊘	SEMI VARIABLE RESISTOR	
▩	CHIP RESISTOR	

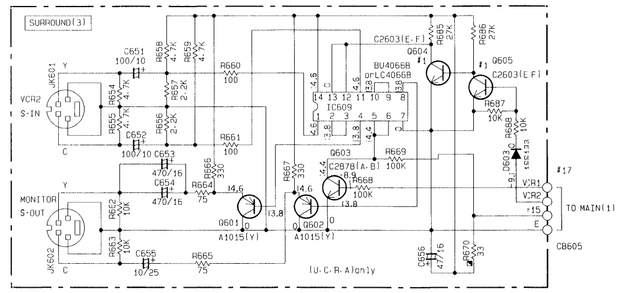
** All voltage are measured with a 10MΩ/DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM









Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
#1	Q604.605	2SC1740S(S,R) 2SC2603(E,F) 2SC3311A(Q,R,S)

NOTICE
(J)····· Japanese model
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(A)····· Australian model
(G)····· European model
(B)····· British model
(R)····· General model
(P)····· RP model

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
☑	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
☒	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

CAPACITOR

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

	LAST NO.	UN LISTED NO.
C	669	
R	702	
Q	607	
D	603	
IC	610	

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.

2SA1015(Y) 2SA970(GR, BL) 2SA1370(D, E, F) 2SC1815Y 2SC1740S(S, R) 2SC2603(E, F) 2SC3311A(Q, R, S) 2SC2240(GR, BL) 2SC2878(A, B) 2SC2925T DTC144ES 2SC2060(P, Q, R) DTA114ES 2SD1485(P, Q, R)	AN7815F AN78M09F 1: INPUT 2: COMMON 3: OUTPUT	AN79M15F AN79M09F 1: COMMON 2: INPUT 3: OUTPUT	2SA1358 2SC3421	2SB1317 2SD1975 2SB1362 2SD2053	4D4B41 2B4B41	1SS133 MA185 MTZJ5.6A 1SR139-100T32 MTZJ5.1A MTZJ6.2A MTZJ12B MTZJ12C Anode Cathode	M5218LV BA15218N	AN6557 NJM4558S	BA6229	μPC1188H	LC4066B BU4066B μPC4074C TC4069UPB HD14013B	LA2730 μPC1571C YM3428 μPD4052BC LB1294	LC6505C-4277 LA2770

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