

STEREO AMPLIFIER

AV-70/75 PRO

SERVICE MANUAL

IMPORTANT NOTICE

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

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

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

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

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

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

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REMOTE CONTROL TRANSMITTER	47~50

■ 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 :



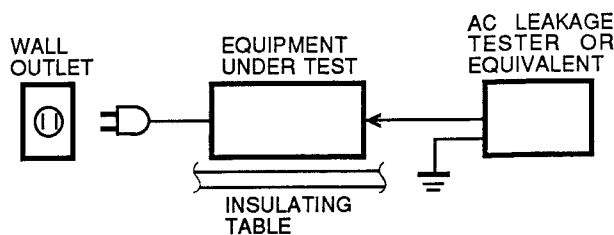
This symbol, when located adjacent to a fuse, indicates:

" 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.

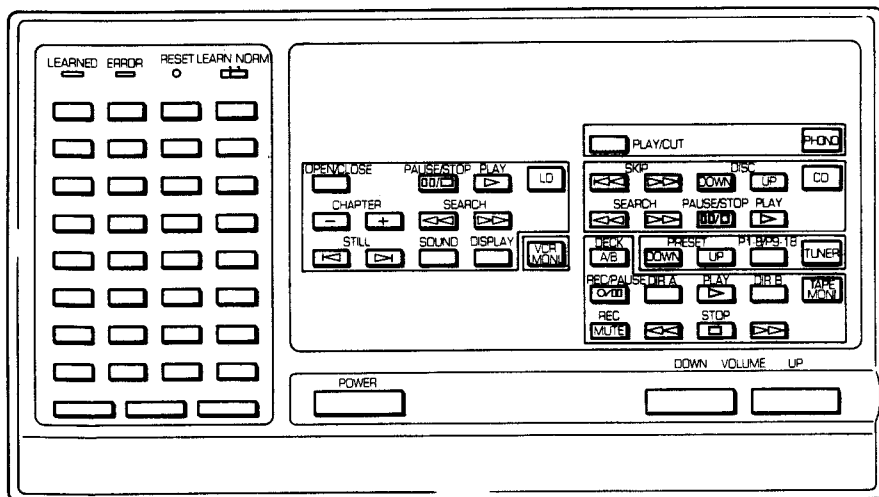


• POLARIZATION (U, C models only)

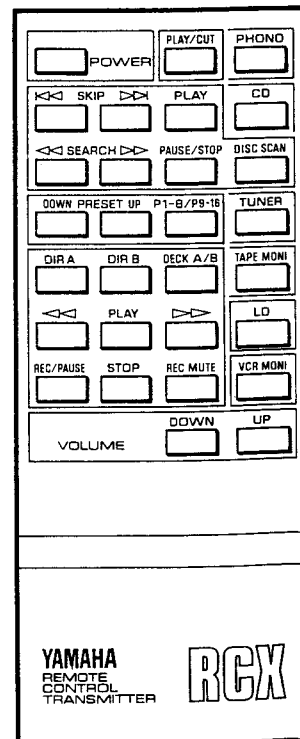
This amplifier product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

■ PANEL CONTROLS

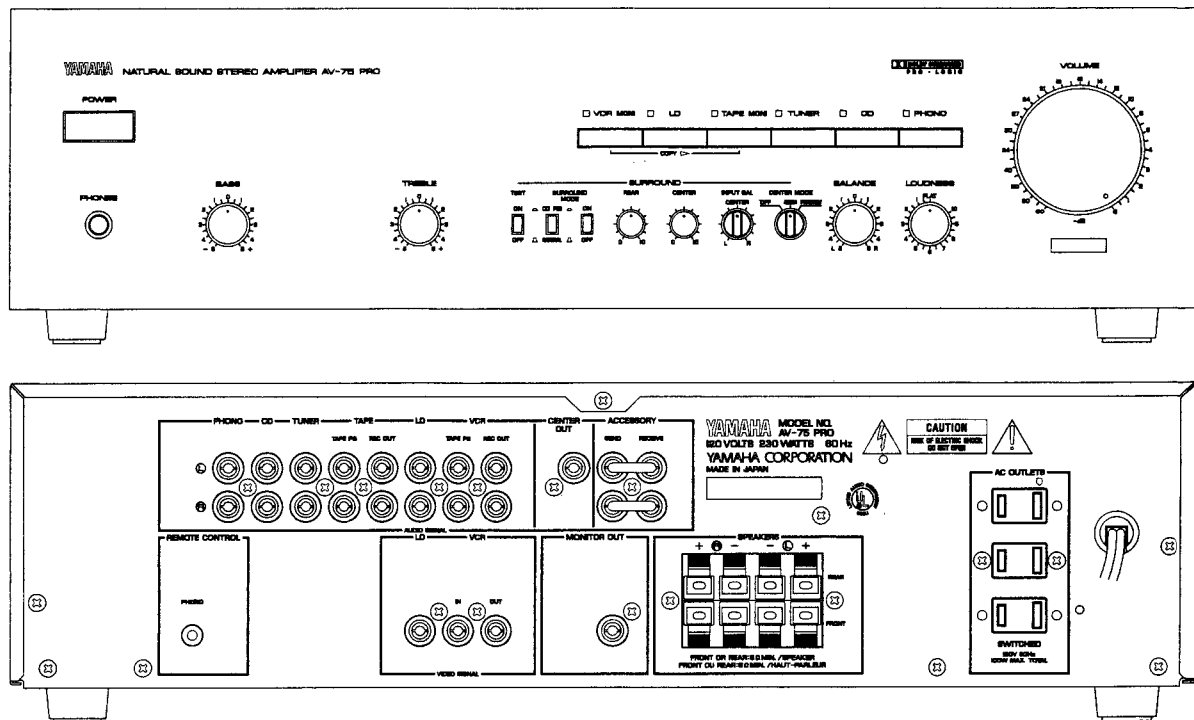
• AV-75 PRO



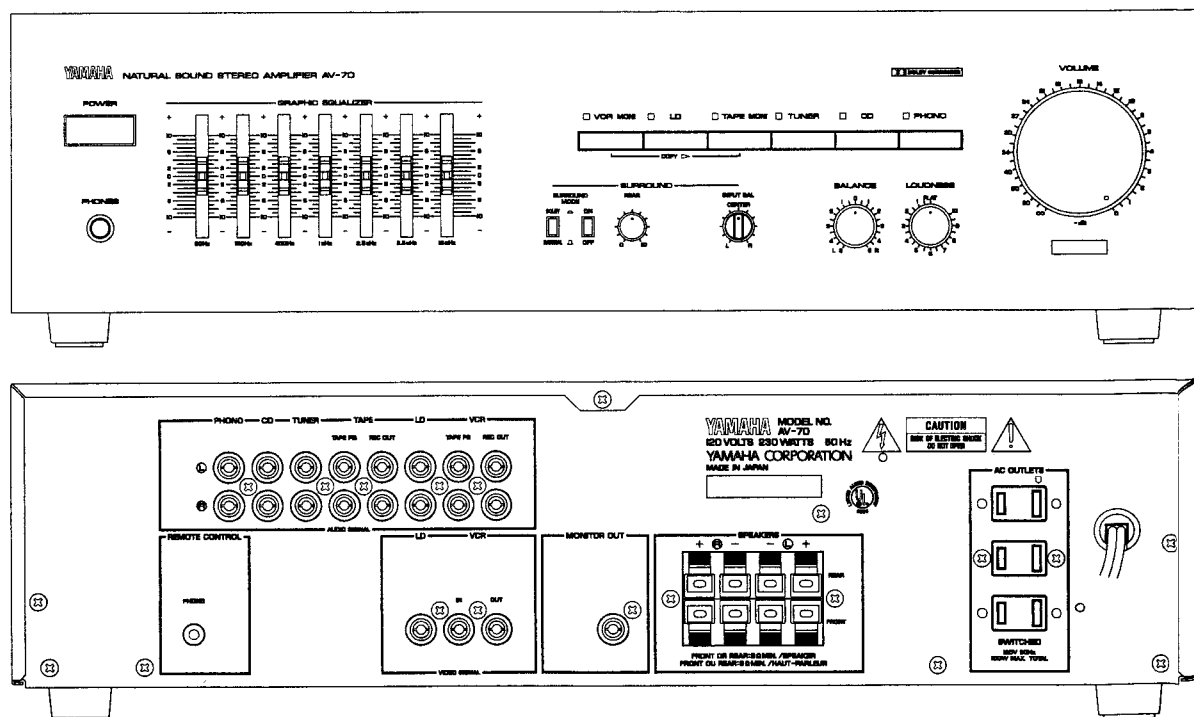
• AV-70



● AV-75 PRO



● AV-70



SPECIFICATIONS

AUDIO SECTION

Minimum RMS Output Power Per Channel
FRONT
 20Hz~20kHz, 0.1% THD, 8Ω 100W

REAR (at NATURAL SURROUND)
 1kHz, 1% THD, 8Ω 15W

Dynamic Power Per Channel
 (by IHF Dynamic Headroom measuring method)
 8Ω 145W
 6Ω 180W

Dynamic Headroom
 8Ω 1.6dB

Damping Factor
 1kHz, 8Ω 50

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

Input Sensitivity (New IHF)
 Phono MM 0.25mV
 CD etc. 15mV

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

Output Level / Impedance
 Rec Out 150mV / 1.2kΩ
 Center Out (AV-75PRO) 1.75V/4.4kΩ

Headphone Jack Rated Output / Impedance
 0.1% THD, RL=8Ω 180mV / 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, 50W / 8Ω 0.05%

Signal to Noise Ratio (IHF-A-Network)
 Phono MM (5mV Input Shorted) 79dB
 CD etc. (Shorted) 100dB

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 (AV-75 PRO)

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

Graphic Equalizer (AV-70)

Control Frequency 60Hz, 150Hz, 400Hz, 1kHz,
 2.5kHz, 6.3kHz, 16kHz
 Boost/Cut ±10dB

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

Gain tracking error (0dB~-60dB) (AV-75 PRO) 3dB

VIDEO SECTION

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

GENERAL

Power Supply AC120V, 60Hz

Power Consumption
 U model 230W
 C model 410VA / 320W

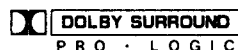
AC Outlet
 Switched x 3 100W max. (Total)

Dimensions (WxHxD) 435x125.5x304.7mm
 (17-1/8"x4-15/16"x12")

Weight **AV-75 PRO** 8.1kg (17 lbs 13 oz)
AV-70 8.0kg (17 lbs 10 oz)

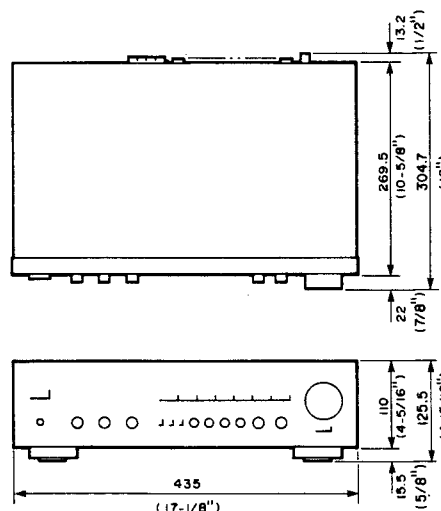
**Specifications subject to change without notice.*

U U. S. A. model
 C Canadian model



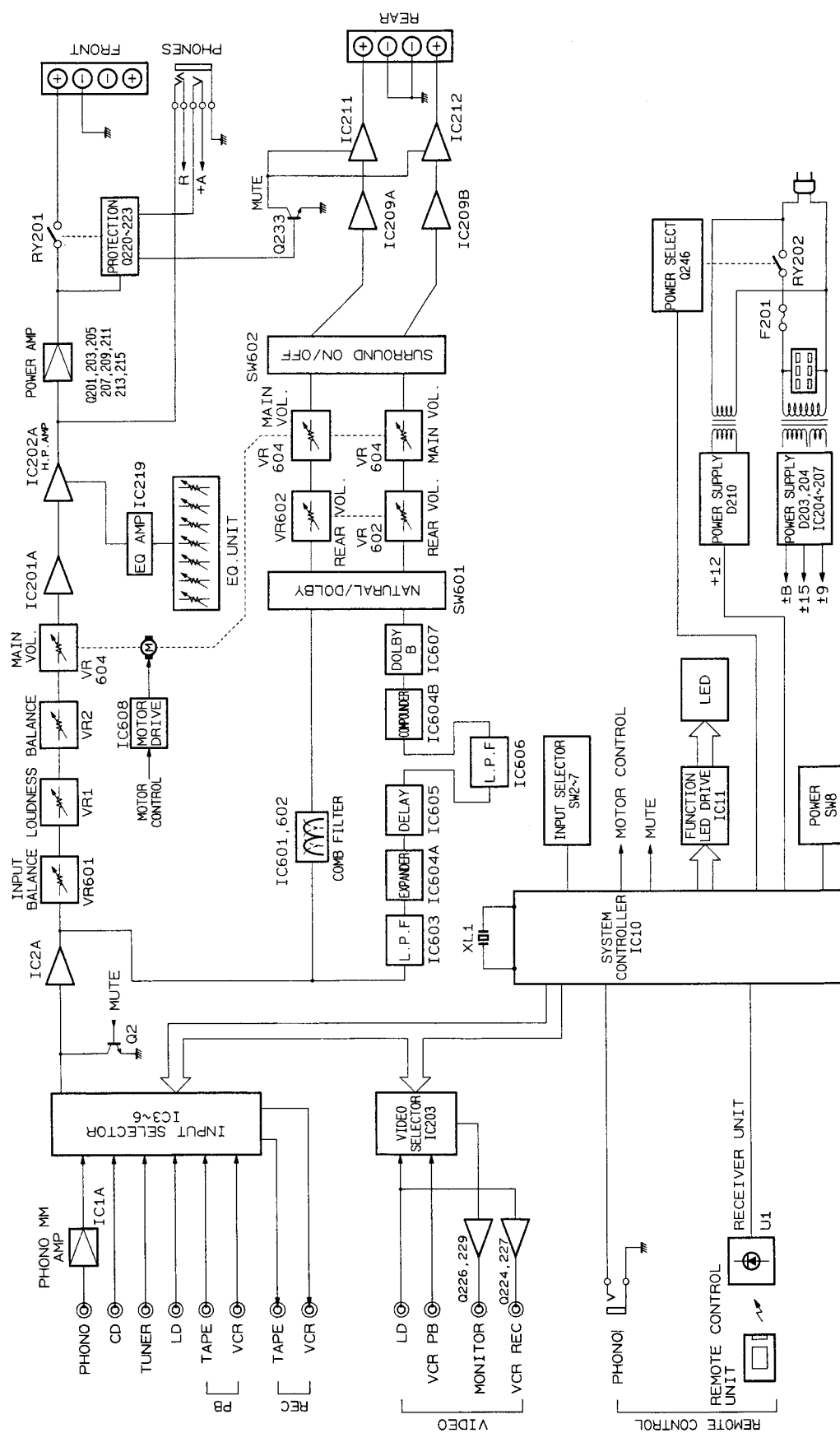
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DIMENSIONS

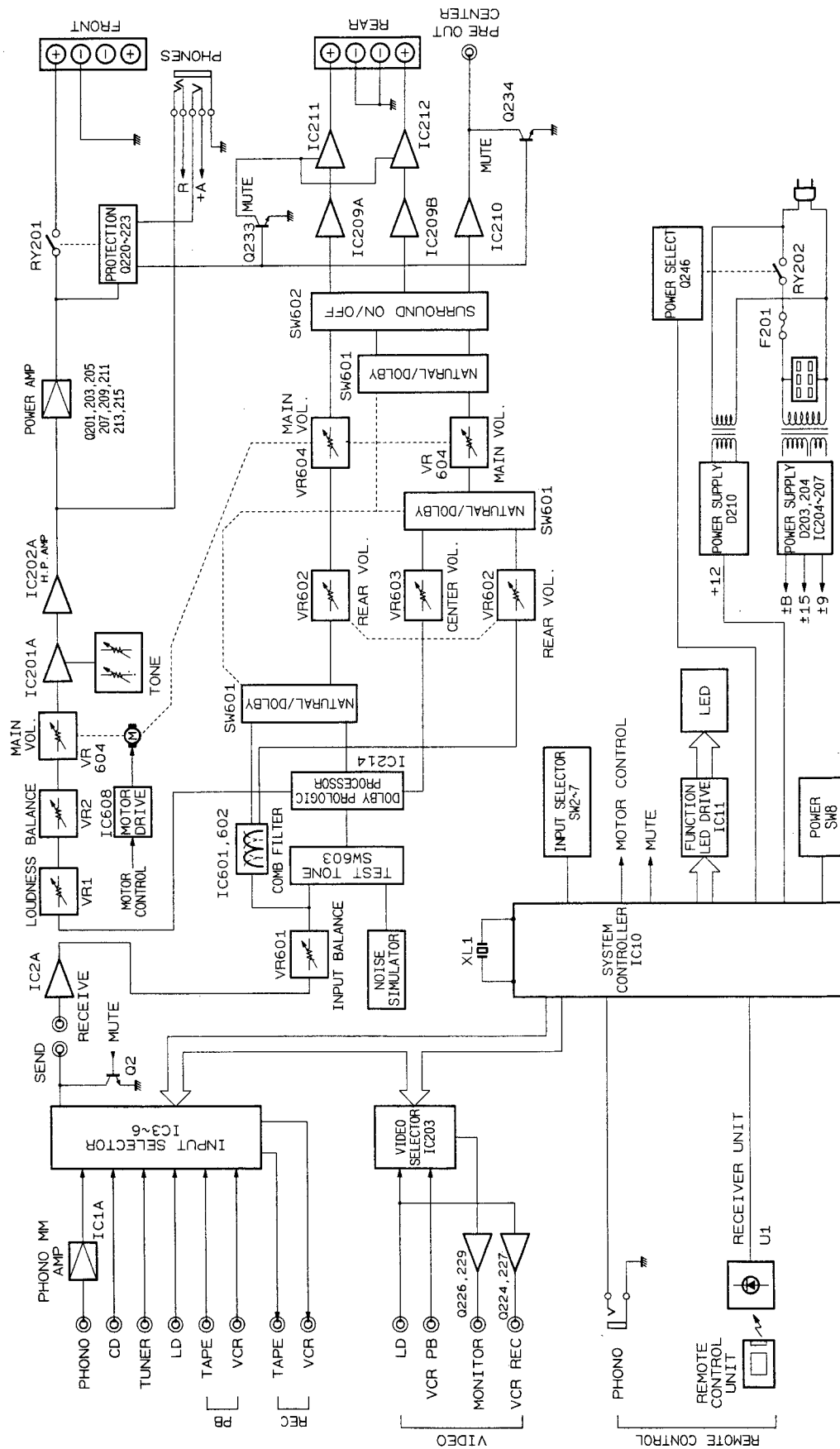


Unit : mm (in.)

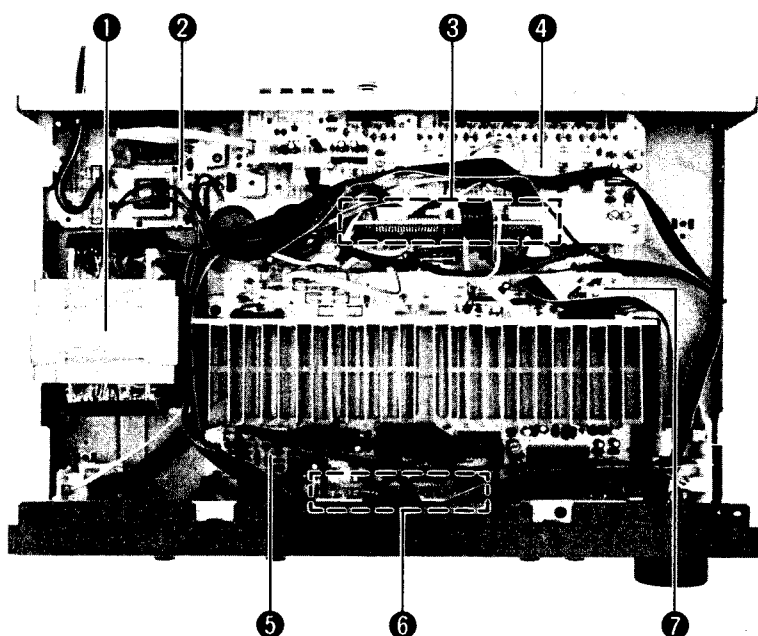
■ AV-70 BLOCK DIAGRAM



■ AV-75 PRO BLOCK DIAGRAM



■ INTERNAL VIEW



- ① POWER TRANSFORMER
- ② MAIN CIRCUIT BOARD (2)
- ③ μ -COM CIRCUIT BOARD (9)
- ④ μ -COM CIRCUIT BOARD (1)
- ⑤ MAIN CIRCUIT BOARD (1)
- ⑥ SURROUND CIRCUIT BOARD (1)
- ⑦ MAIN CIRCUIT BOARD (3)

■ 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.

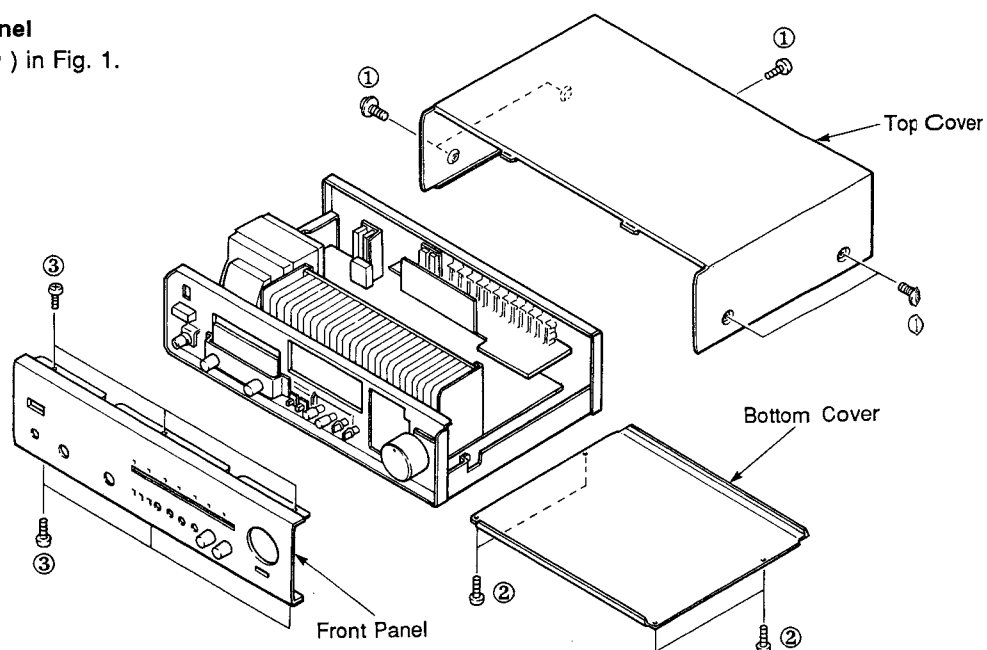


Fig. 1

● Installation of Top Cover

< Example of incorrect installation >

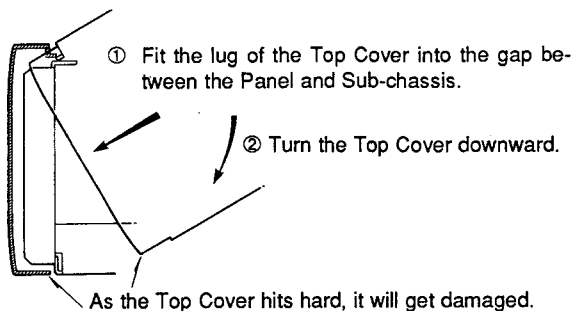


Fig. 2

< Example of correct installation >

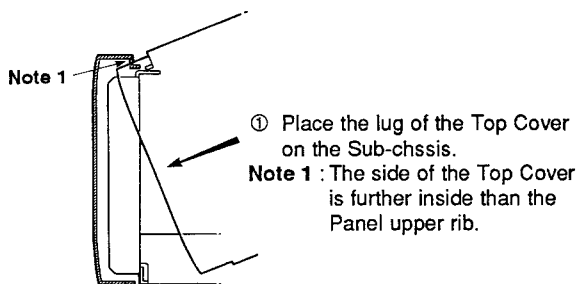


Fig. 3

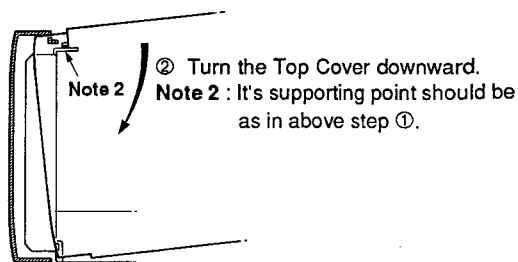


Fig. 4

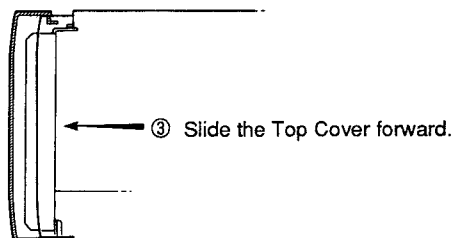


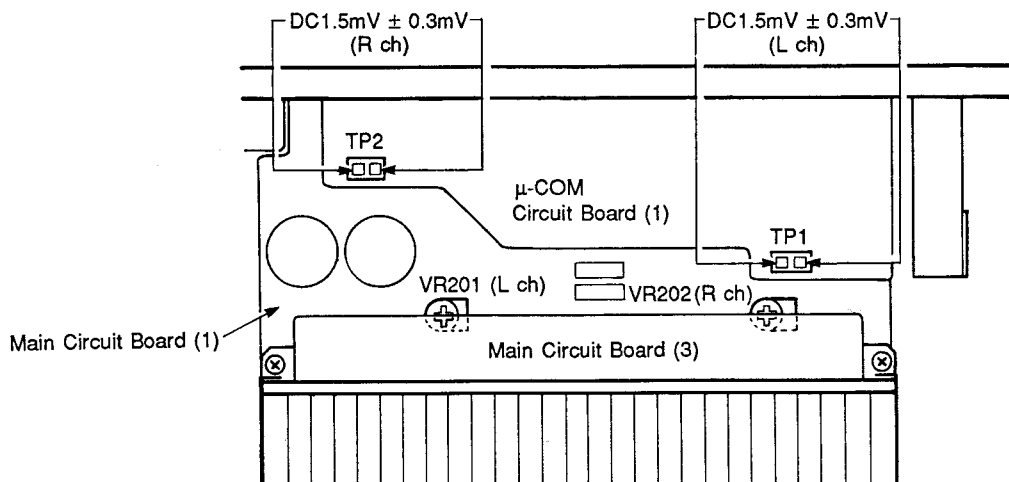
Fig. 5

■ ADJUSTMENTS

● Idling Adjustment

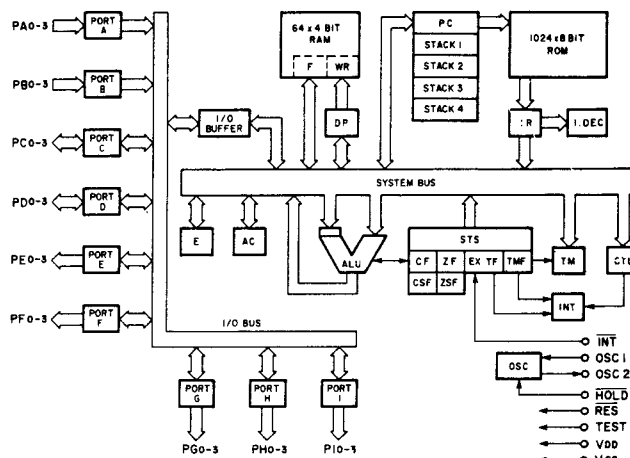
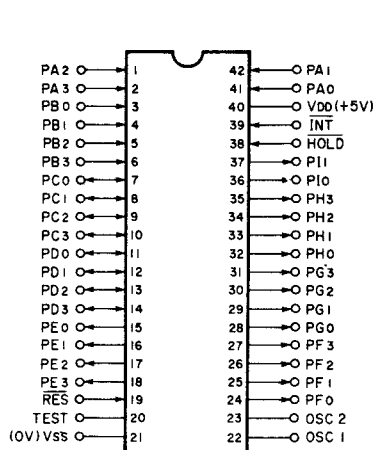
To stabilize operation of the amplifier, turn on the power in the no-signal state and wait for two minutes before the adjustment.

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 $DC1.5mV \pm 0.3mV$.



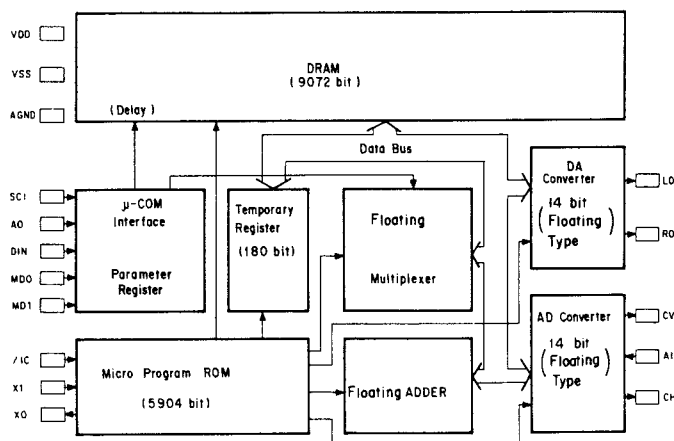
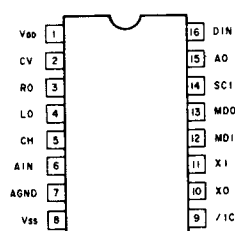
IC DATA

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 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 (Not used)
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 (Not used) } 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	
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 TU ₁ } Tuner control signal (Not used).
35	PH ₃	O	
36	PI ₀	O	AMUTE Audio Muting control signal (L: Active), Not used
37	PI ₁	O	MUTE Muting control signal (L: Active)
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 ON)

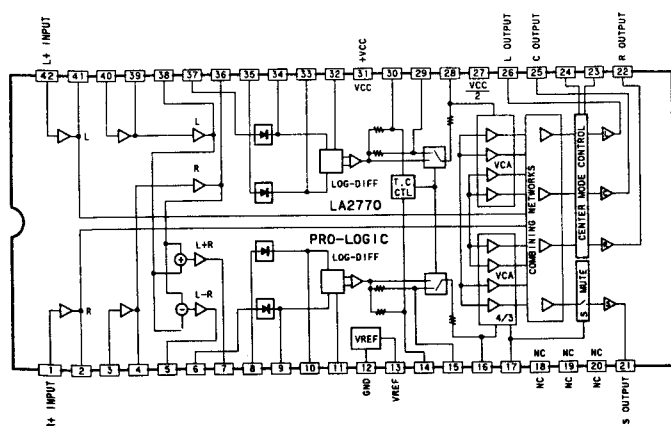
IC605 : YM3428
Digital Delay Circuit



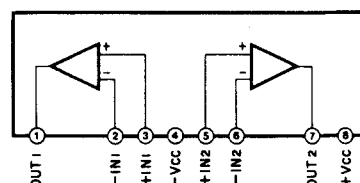
Pin No.	Name	I/O	Function
1	VDD	—	+5V Power Supply Terminal
2	CV	0	Reference Voltage (+2.5V) Output Terminal for A/D Conversion use
3	RO	0	D/A Conversion Analog Signal Output Terminal for R-ch use
4	LO	0	D/A Conversion Analog Signal Output Terminal for L-ch use
5	CH	0	Condensor Externally Attached Terminal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

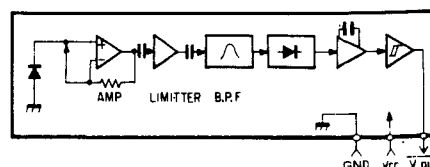
IC214 : LA2770 (AV-75PRO)
Dolby Pro-Logic



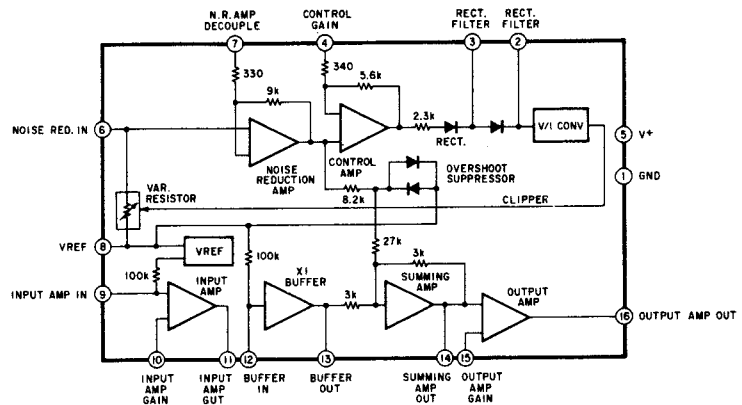
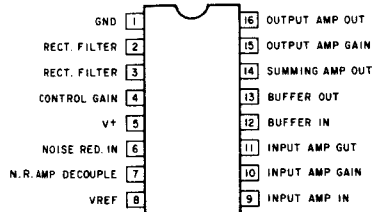
IC1 : BA15218N or M5218LV
IC202 : M5218AL
Dual Ope-amp



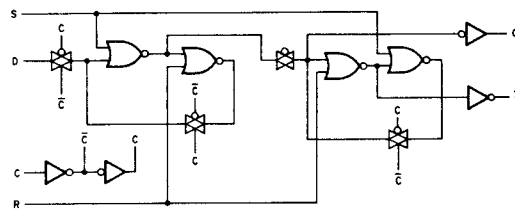
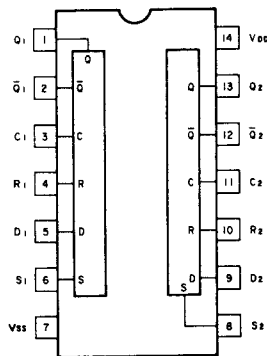
U1 : GP1U521Y
Remote Control Receptor



IC607 : LA2730
Dolby Encoder / Decoder



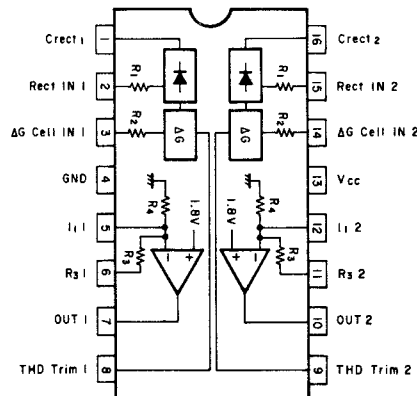
IC218 : HD14013B
Dual "D" Flip-Flop with Set / Reset Capability



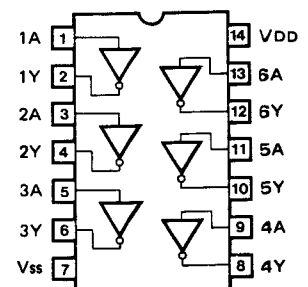
Input				Output	
Clock*	Data	Reset	Set	Q	Q-bar
L	L	L	L	L	H
L	H	L	L	H	L
X	L	L	L	Q	Q-bar
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

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

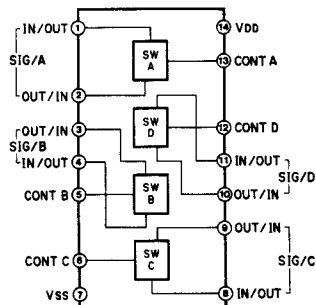
IC604 : μ PC1571C
Compressor



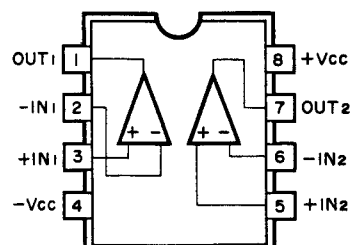
IC215 : TC4069UBP
Hex Inverter



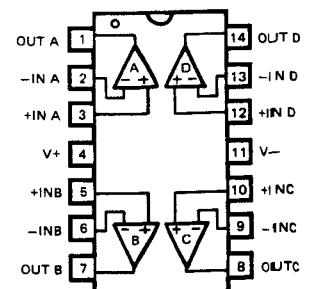
IC3~6, 203 : LC4066B or BU4066B
Quad Bilateral Switch



IC610 : JRC4558DV
Dual Ope-amp

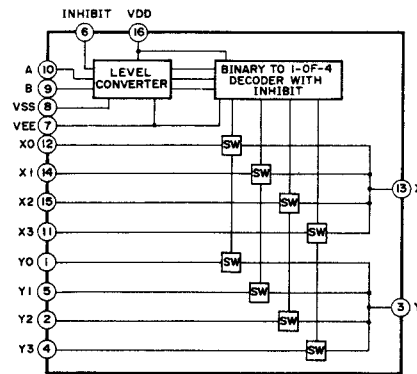
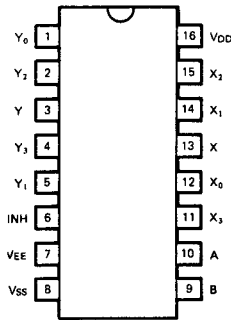


IC216 : μ PC4074C
4-Channel Ope-amp

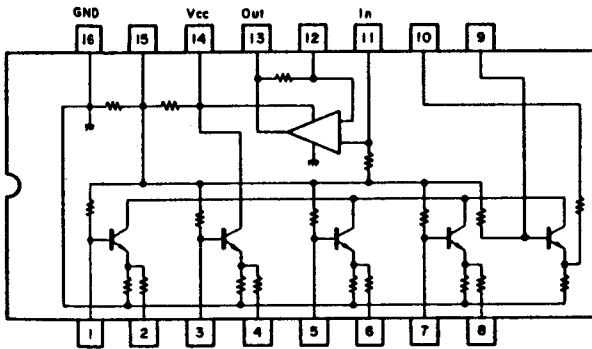


IC217 : μ PD4052BC (AV-75PRO)

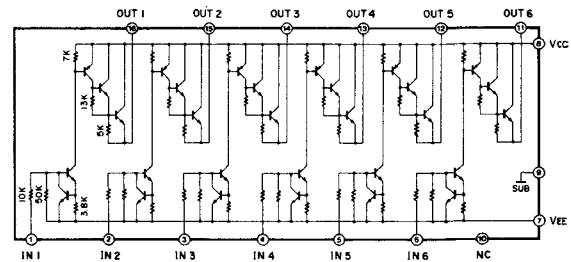
Differential 4-Channel Multiplexer / Demultiplexer



IC219, 220 : M5226P (AV-70)
Graphic Equalizer Amp

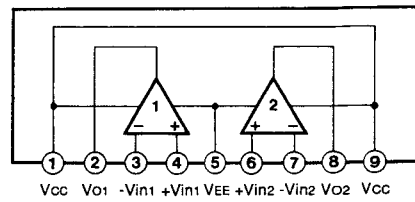


IC11 : LB1294
LED Driver

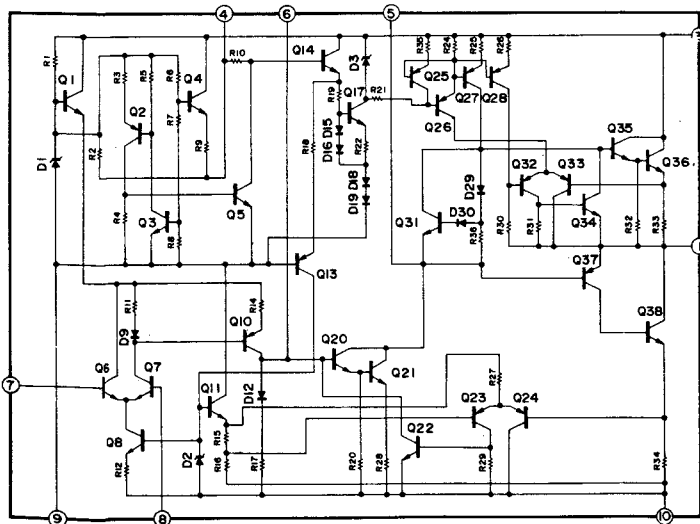


IC201 : AN6557

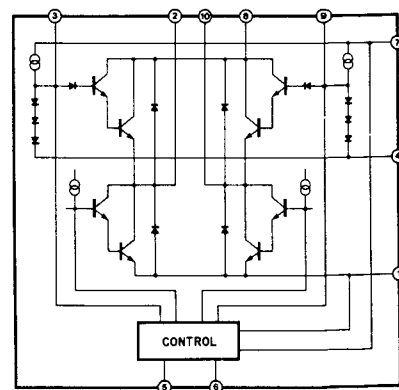
IC2, 209, 210, 601~603, 606 : NJM4558S
Dual Ope-amp



IC211, 212 : μ PC1188H
Power Amp

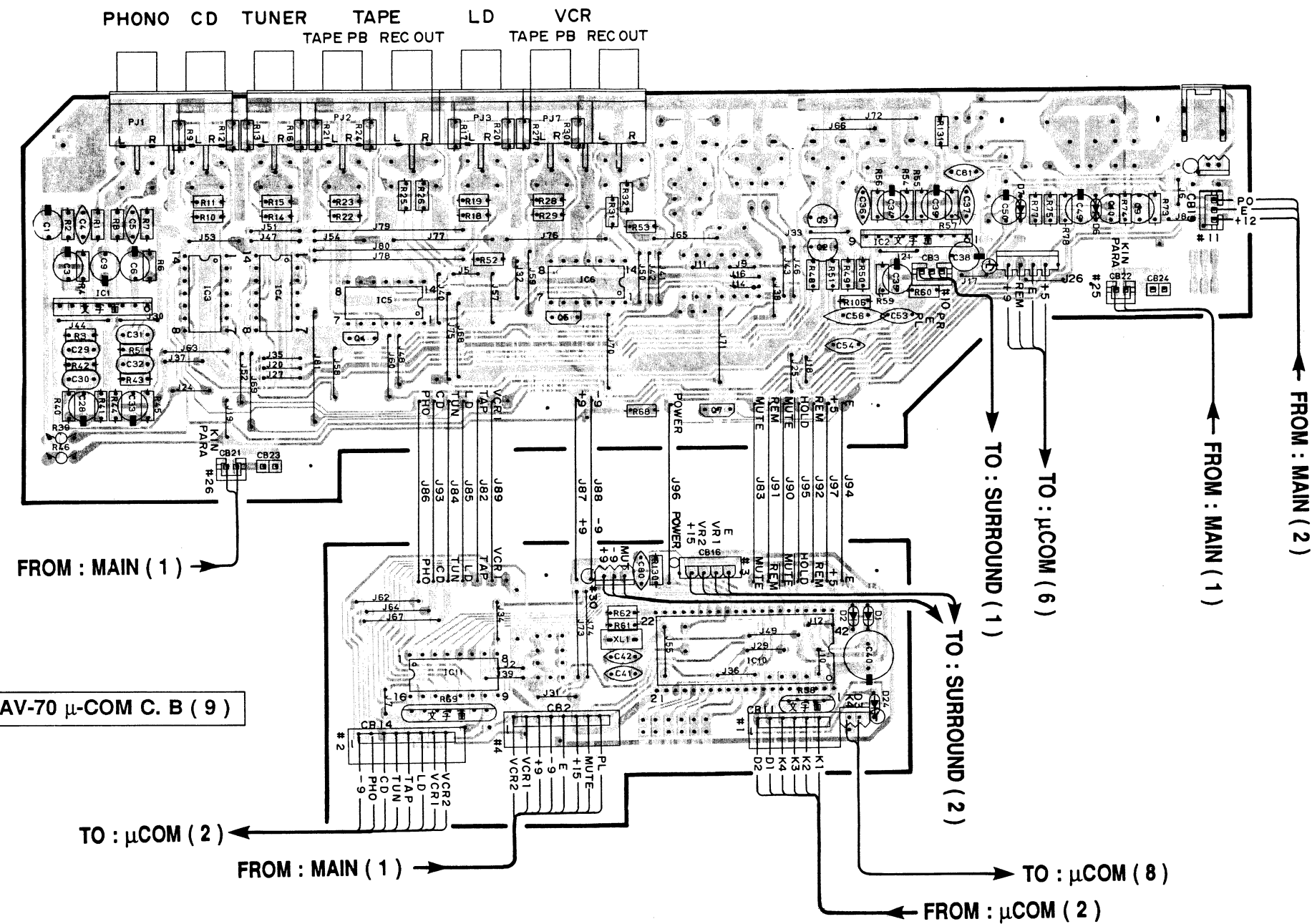


IC608 : BA6229
Motor Driver



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

AV-70 μ -COM C. B (1)

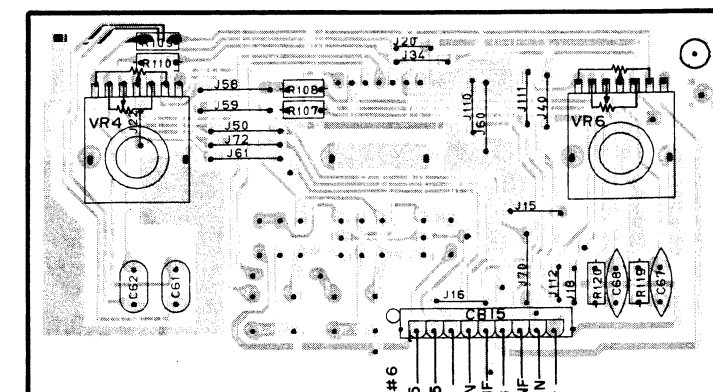
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

AV-75 PRO μ -COM C. B (1)

AV-75 PRO μ -COM C. B (10)

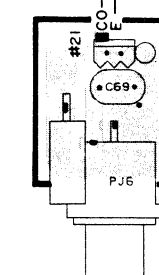
BASS TREBLE



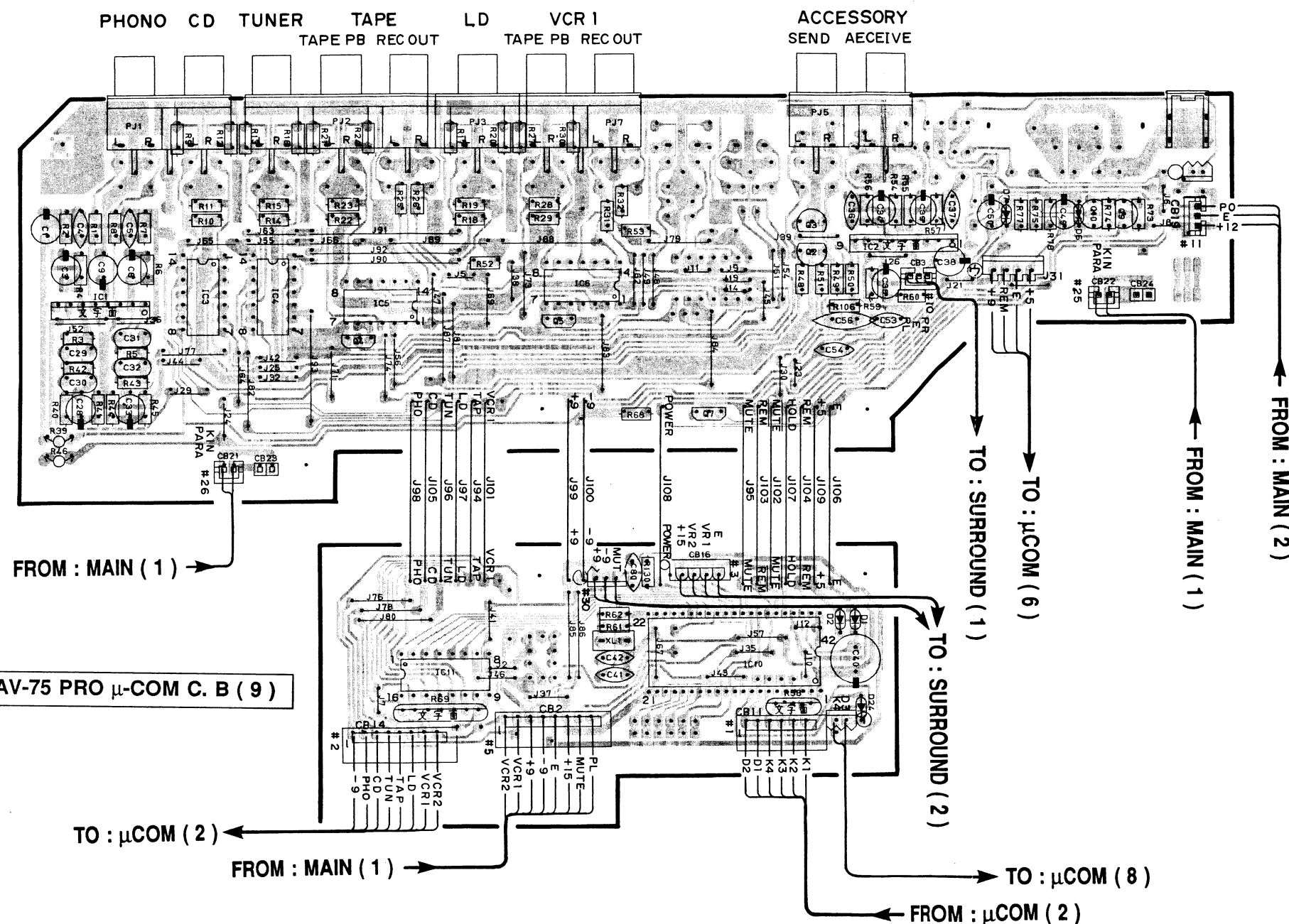
FROM : MAIN (1)

AV-75 PRO μ -COM C. B (11)

FROM : MAIN (3)

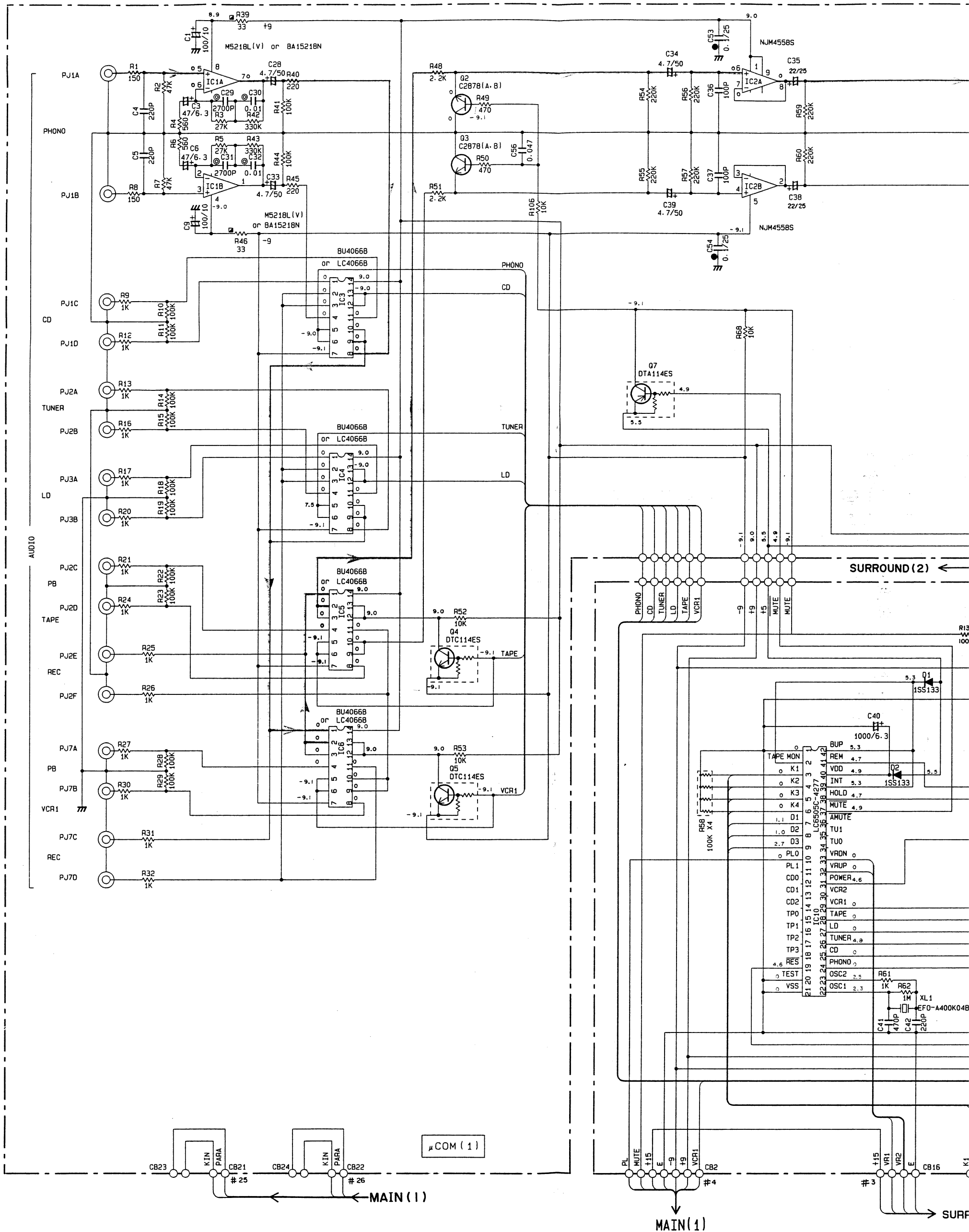


CENTER OUT



AV-75 PRO μ -COM C. B (9)

AV-70 SCHEMATIC DIAGRAM



NOTICE

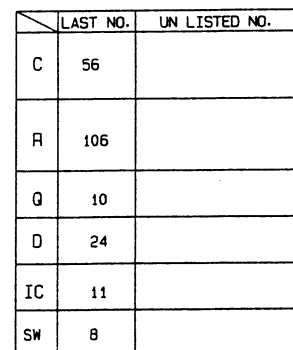
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... AP model

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⊘
⊗	TANTALUM CAPACITOR	⊗
NO MARK	CERAMIC CAPACITOR	⊙
⊙	POLYESTER FILM CAPACITOR	⊙
○	POLYSTYRENE FILM CAPACITOR	○
①	MICA CAPACITOR	①
⊕	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



24

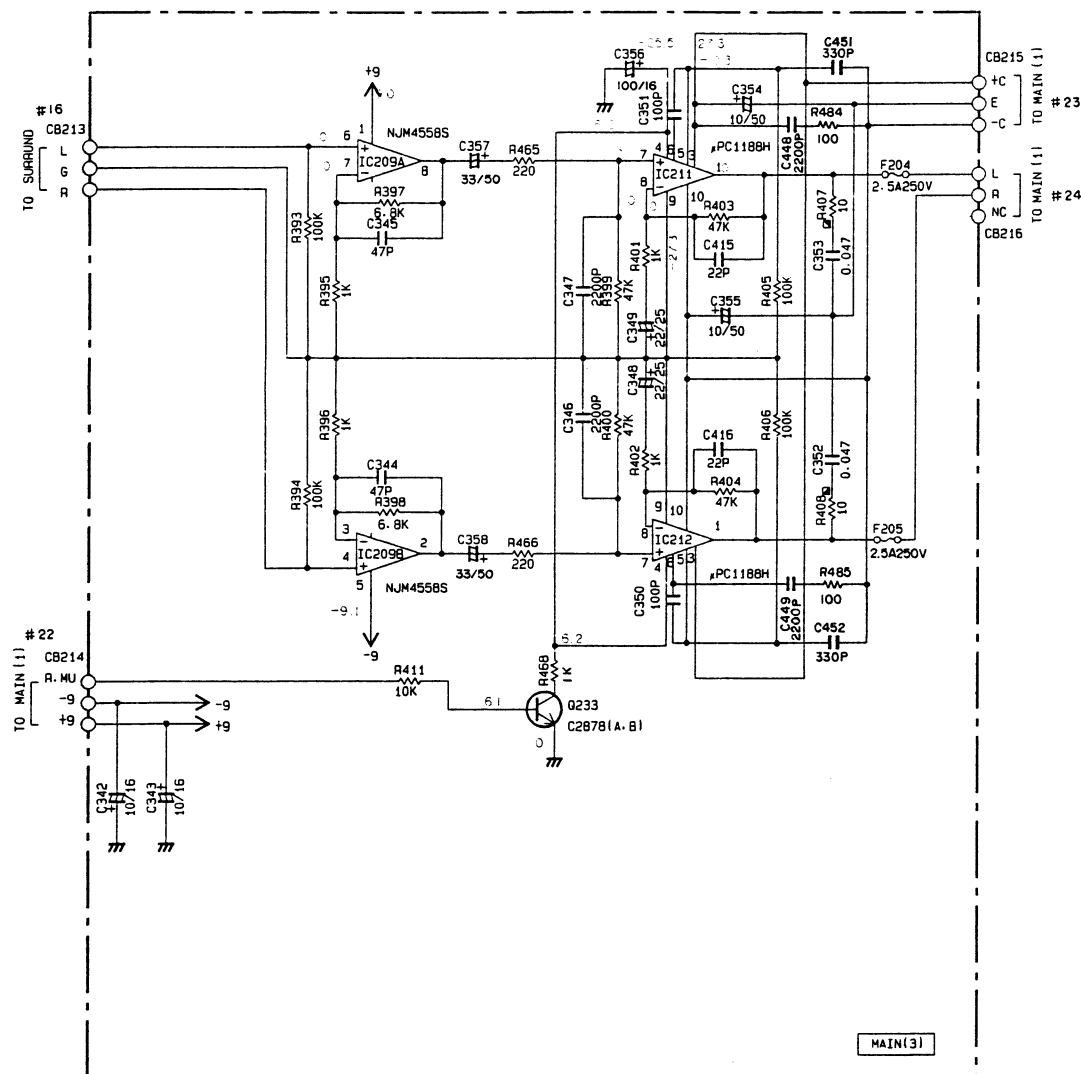
■ AV-70 SCHEMATIC DIAGRAM

RESISTOR

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

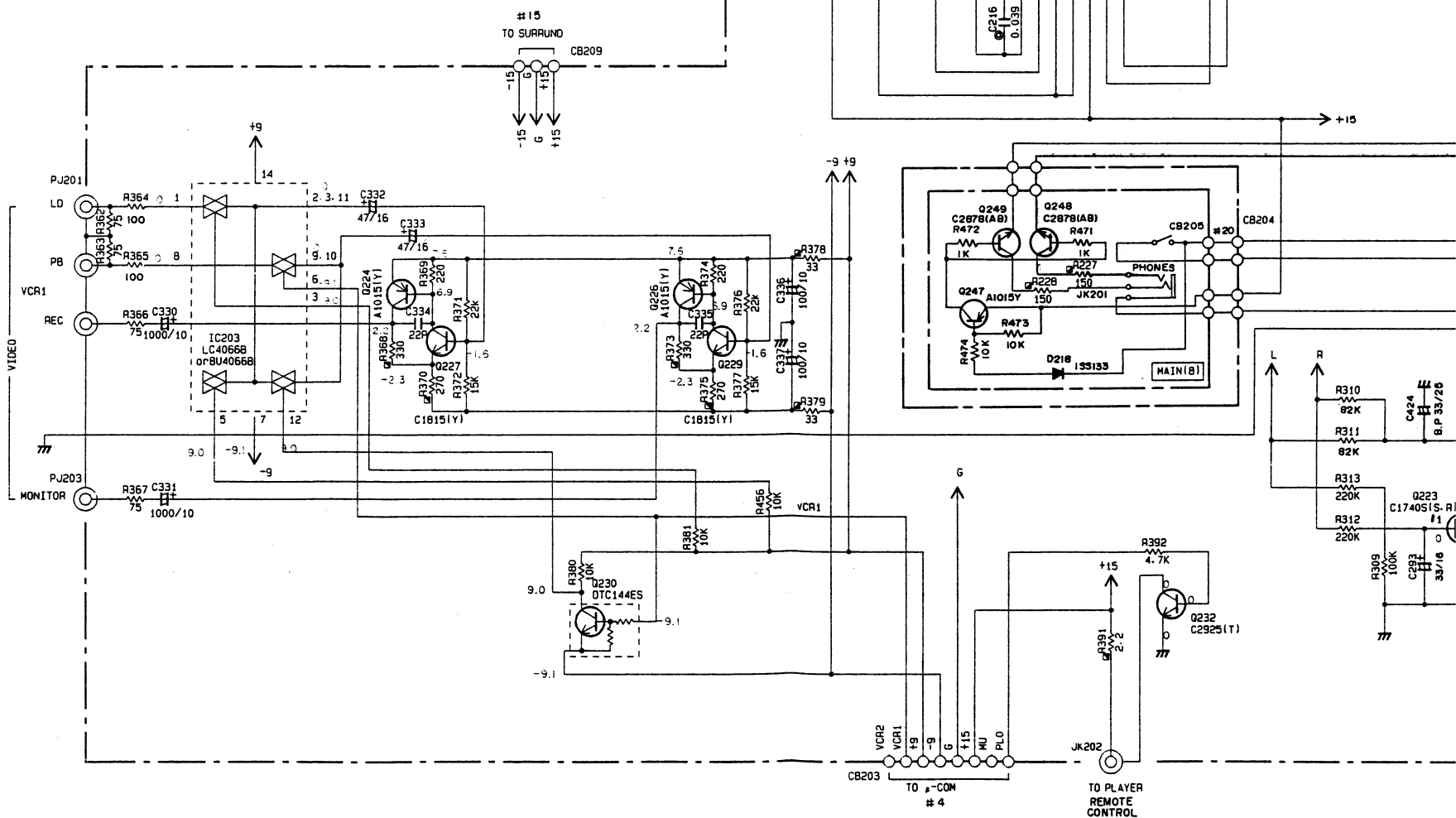
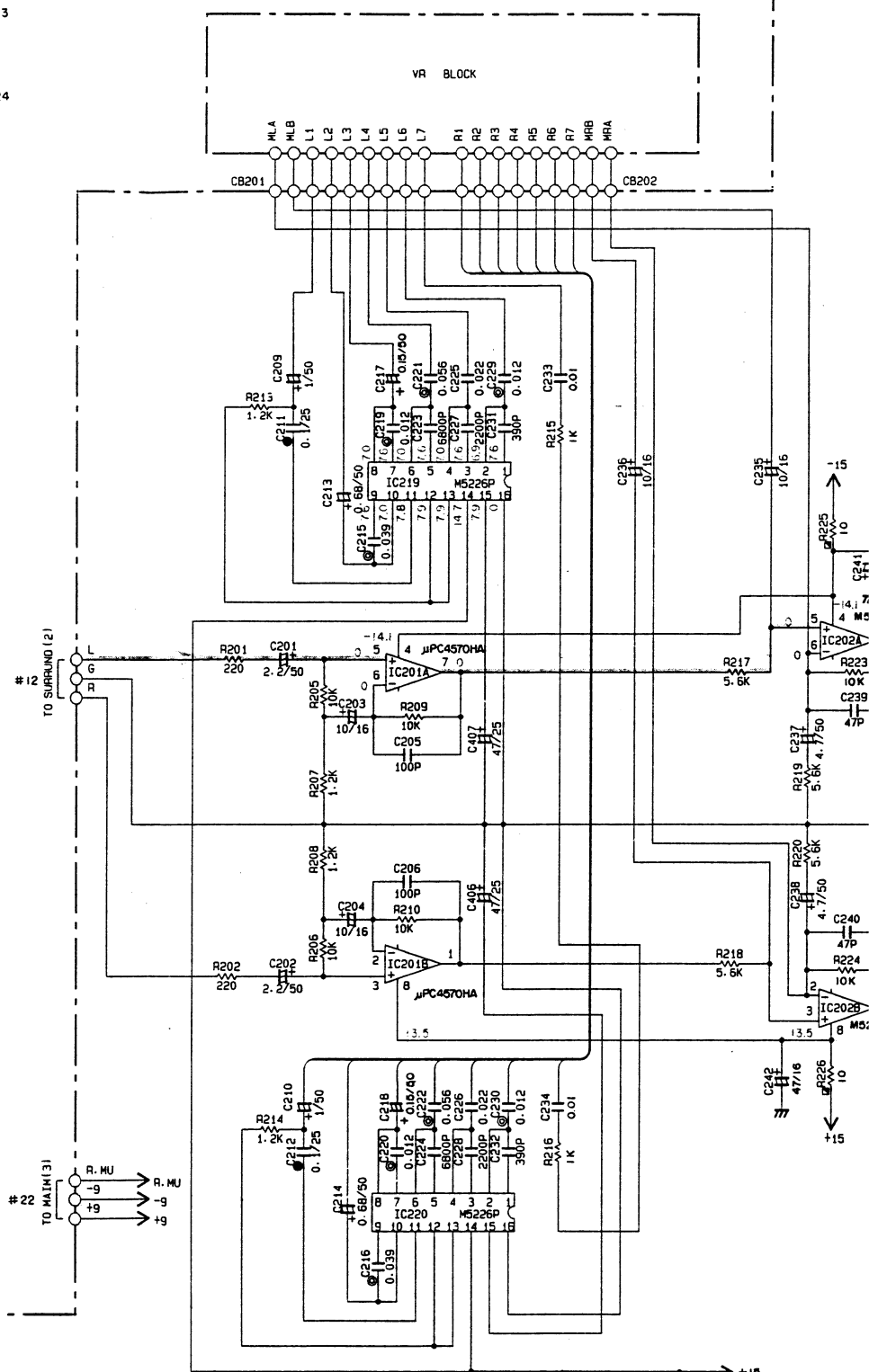
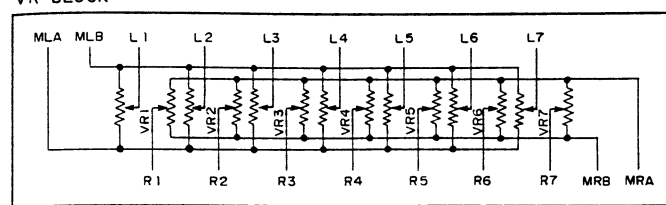
CAPACITOR

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

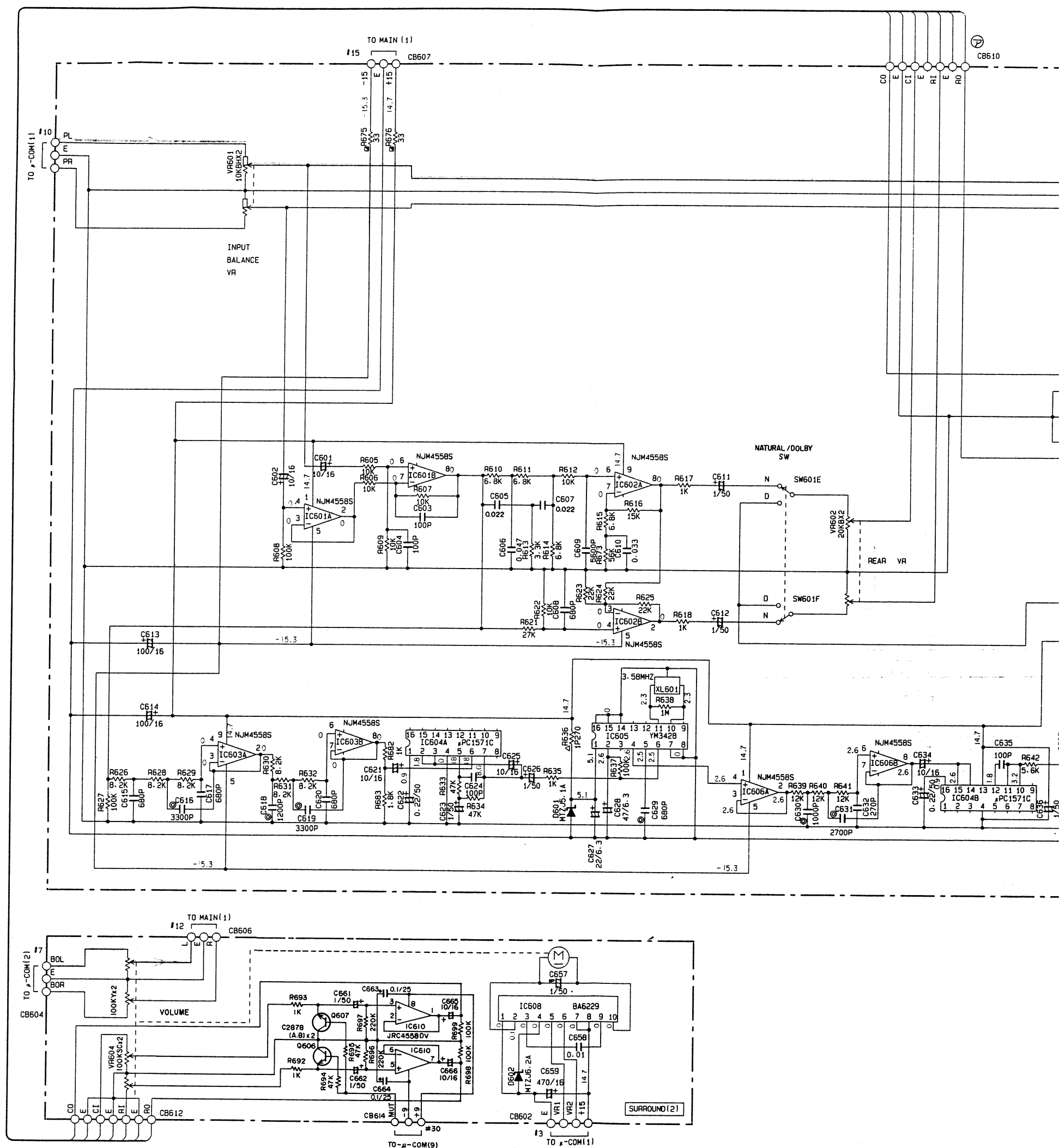


U	C
AN79MI5F or μPC79MI5HF	AN79MI5F

VR BLOCK

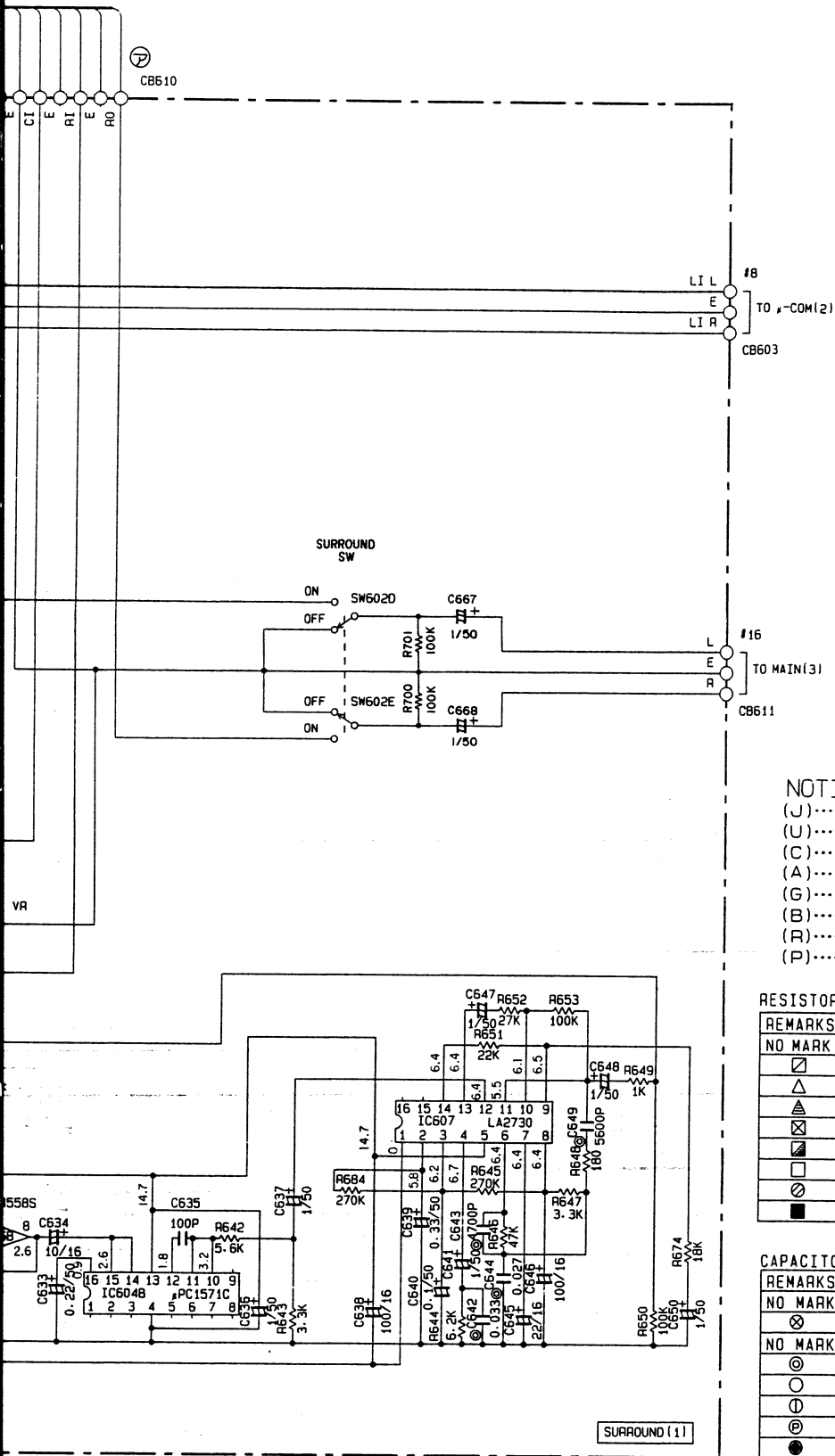


■ AV-70 SCHEMATIC DIAGRAM



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.

2SA1015(Y) 2SA970(GR, BL) 2SA1370(D, E, F) 2SC1815V 2SC1740S(S, R) 2SC2803(E, F) 2SC3311A(Q, R, S) 2SC2240(GR, BL) 2SC2878(A, B) 2SC2925T	DTC144ES 2SC2080(P, Q, R) DTA114ES	AN7815F AN78M09F	AN79M15F AN79M09F	2SA1358 2SC3421	2SB1347 2SD2029	4D4B41 2B4B41	1SS133 MA185 MTZJ5.6A 1SR139-100T32 MTZJ5.1A MTZJ6.2A	M5218LV BA15218N	AN6557 NJM4558S NJM4560S	BA6229	μPC1188
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NOTICE
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... RP model

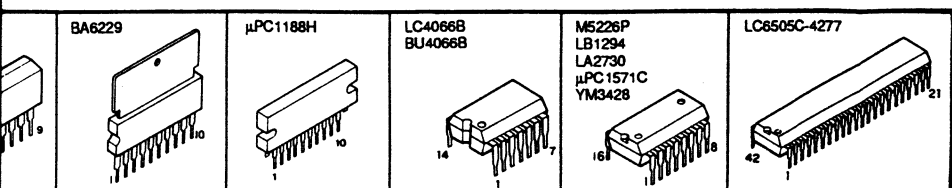
RESISTOR

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

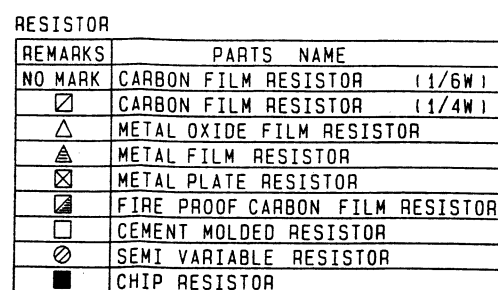
CAPACITOR

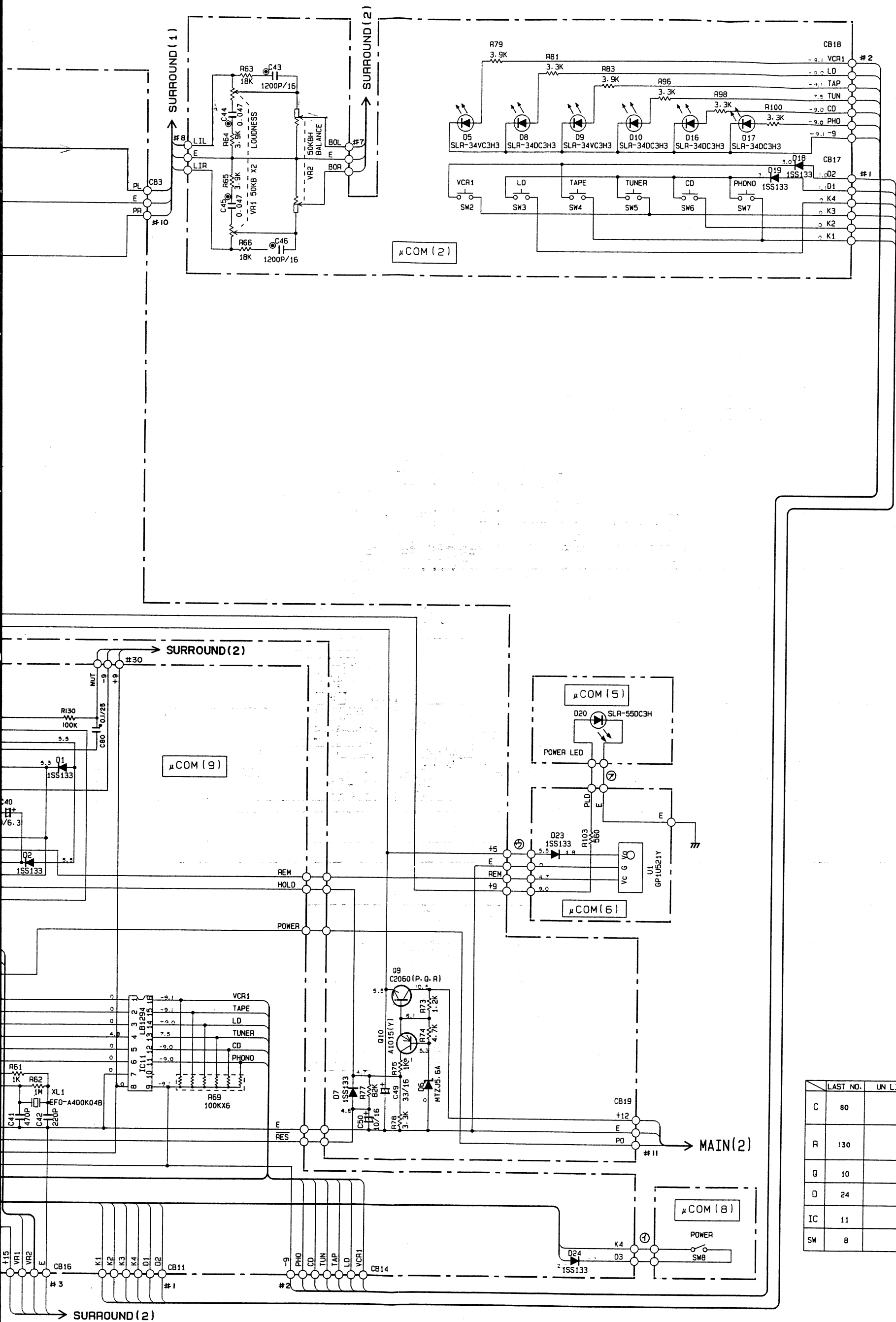
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

LAST NO.	UN LISTED NO.
C	659
R	684
Q	
D	602
IC	608



* 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.





	LAST NO.	UN LISTED NO.
C	80	
R	130	
Q	10	
D	24	
IC	11	
SW	8	

* 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.

A

B

C

D

E

F

■ AV-75 PRO SCHEMATIC DIAGRAM

1

2

3

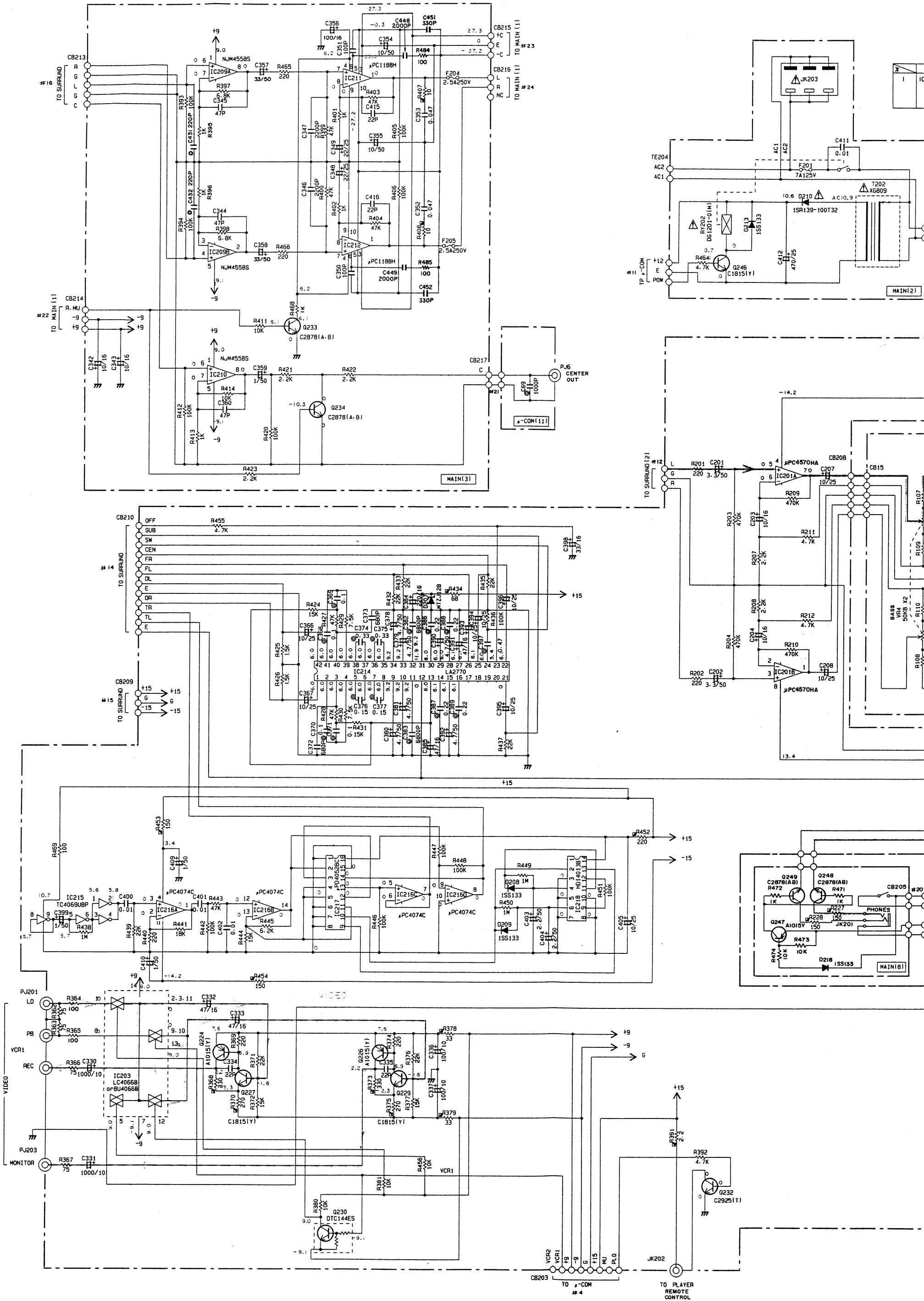
4

5

6

7

8



NOTICE

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

Interchangeable Parts at Manufacture-Stage

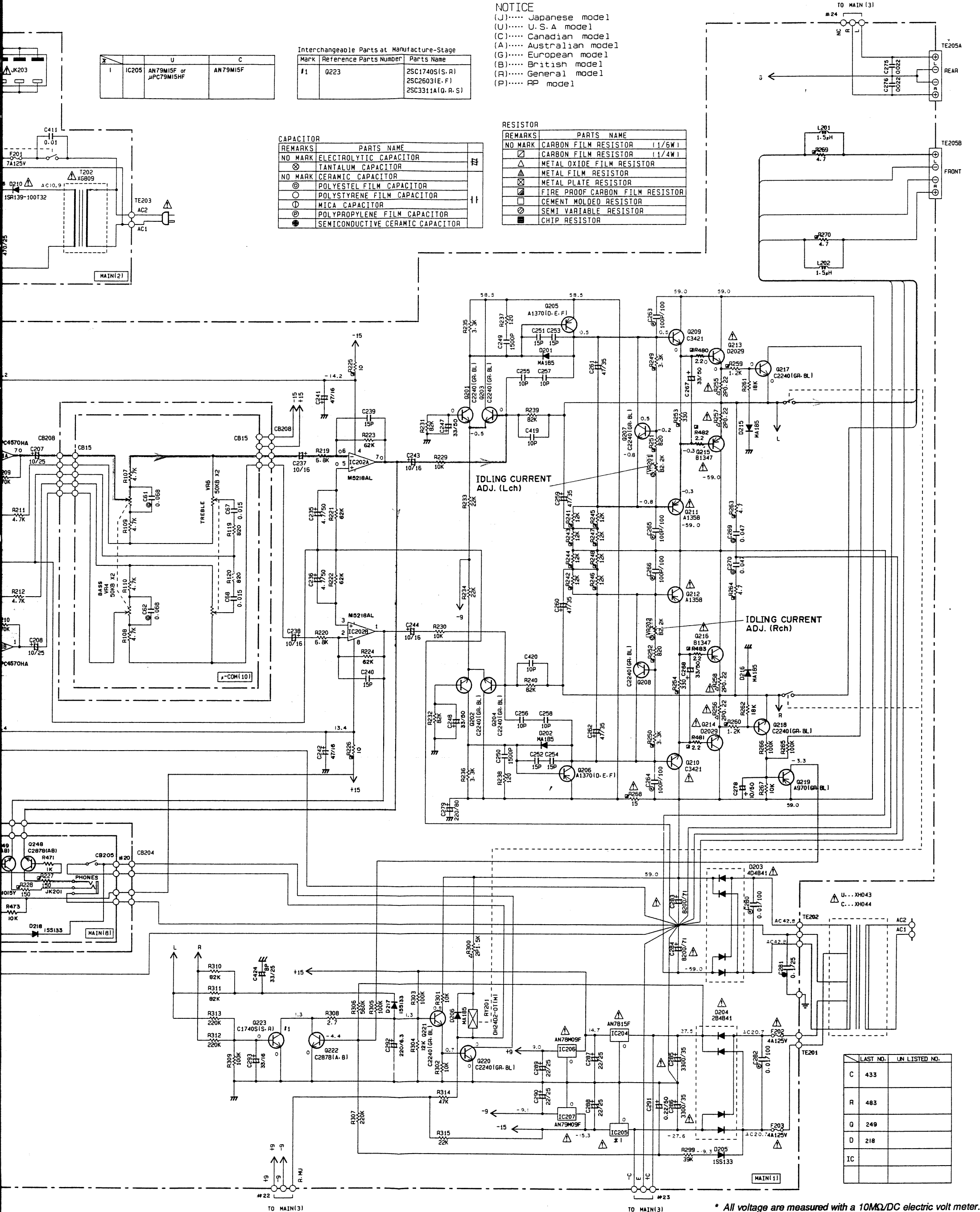
Mark	Reference Parts Number	Parts Name
#1	Q223	2SC1740S(S.R) 2SC2603(E.F) 2SC3311A(Q.R.S)

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	ZZ
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
⊙	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	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



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

* 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.

NOTICE

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

Interchangeable Parts at Manufacture-Stage

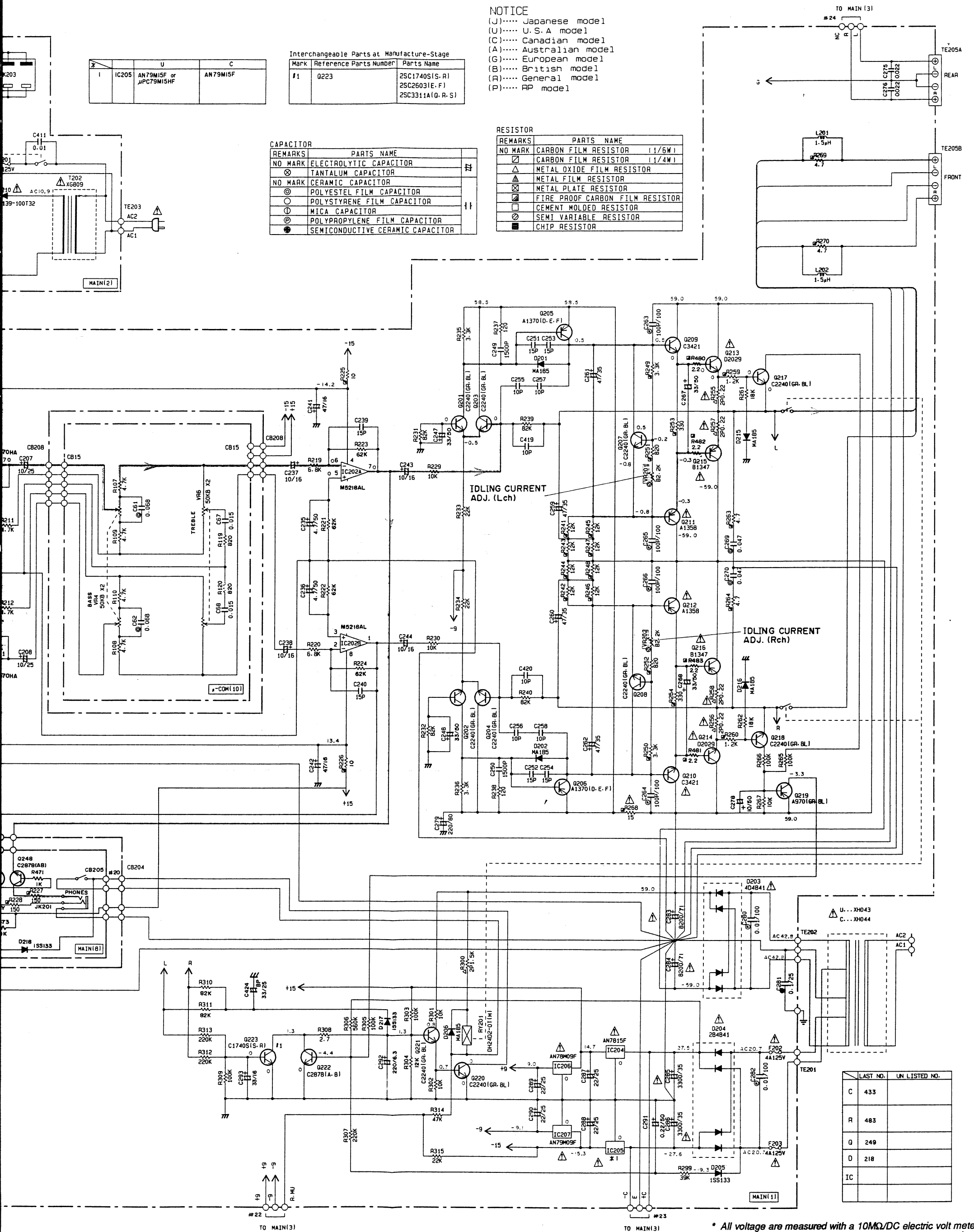
Mark	Reference Parts Number	Parts Name
#1	Q223	2SC1740S(S-R) 2SC2603(E-F) 2SC3311A(Q-R-S)

CAPACITOR

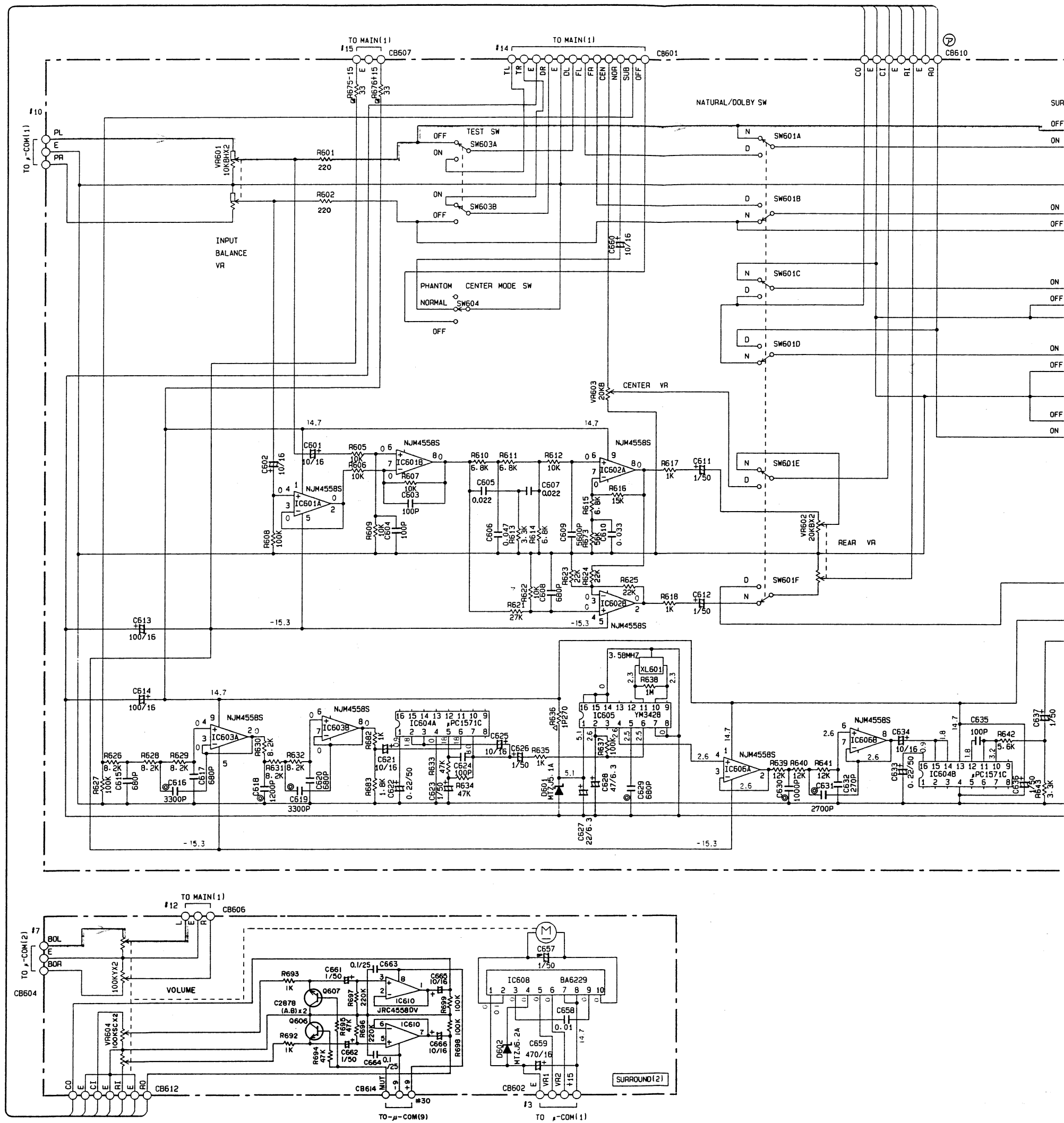
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	ZZ
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
⊙	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
◇	MICA CAPACITOR	
⊖	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

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

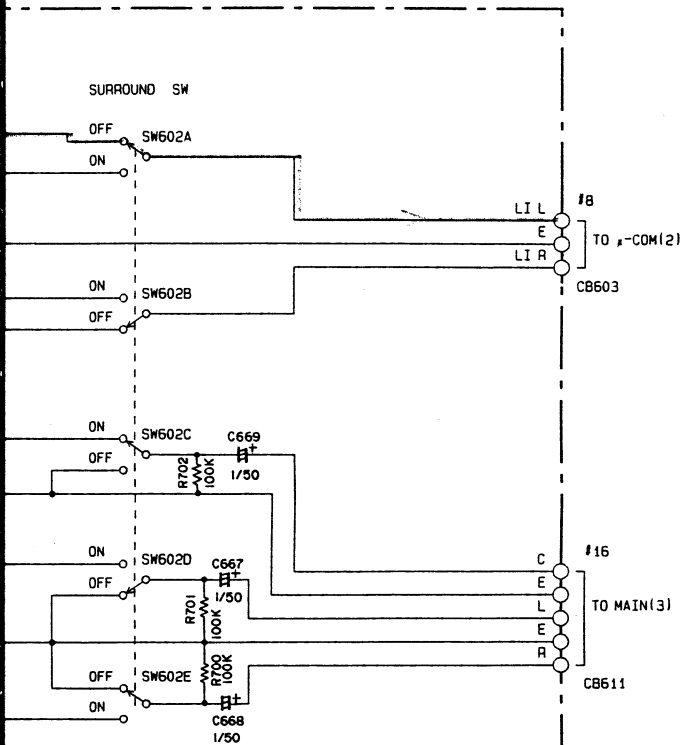


■ AV-75 PRO SCHEMATIC DIAGRAM



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	AN7815F AN78M09F	AN79M15F AN79M09F	2SA1358 2SC3421	2SB1347 2SD2029	4D4841 2B4841	1SS133 MA185 MTZJ5.6A 1SR139-100T32 MTZJ5.1A MTZJ6.2A MTZJ12B	M5218LV BA15218N	AN6557 NJM4558S NJM4560S	BA6229	μPC
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NOTICE

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

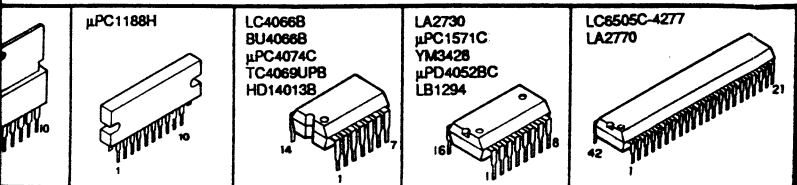
RESISTOR

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

CAPACITOR

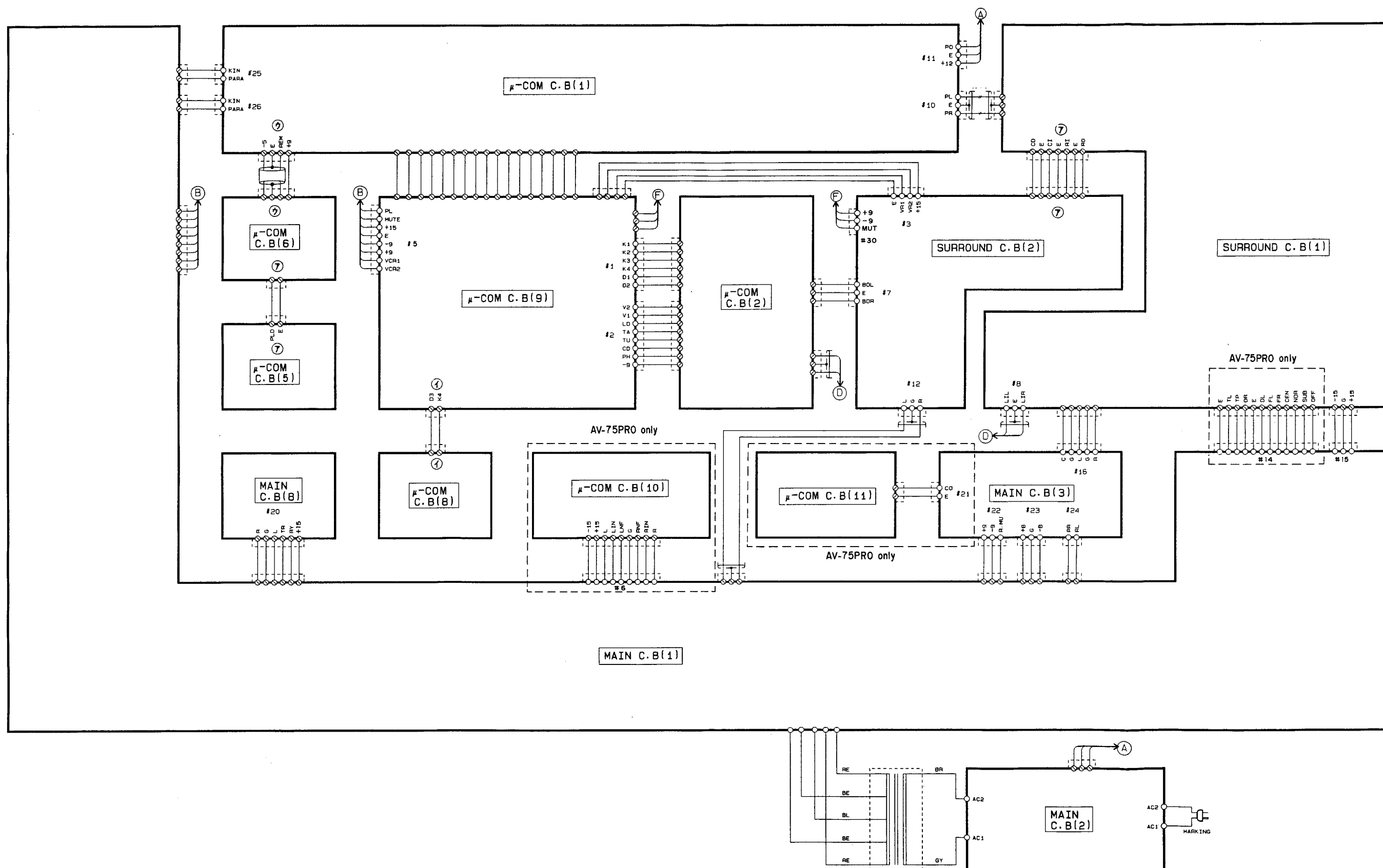
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⊥
⊗	TANTALUM CAPACITOR	⊥
NO MARK	CERAMIC CAPACITOR	⊥
⊙	POLYESTER FILM CAPACITOR	⊥
○	POLYSTYRENE FILM CAPACITOR	⊥
①	MICA CAPACITOR	⊥
⊕	POLYPROPYLENE FILM CAPACITOR	⊥
●	SEMICONDUCTIVE CERAMIC CAPACITOR	⊥

	LAST NO.	UN LISTED NO.
C	669	
R	702	
Q	607	
D	602	
IC	610	



* 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.

■ INTERCONNECT WIRING DIAGRAM



PARTS LIST

AV-70 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. 51.

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* *	VI646800 VI646900 FA154120 FA154390 FA154470	MAIN CIRCUIT BOARD MAIN CIRCUIT BOARD MYLAR FILM CAP MYLAR FILM CAP MYLAR FILM CAP	メインシート メインシート マイラーコン マイラーコン マイラーコン	 C219, 220, 229, 230 C215, 216 C269, 270	U C	
	FA154560 UT452100 UT454100 VG278400 FG211100	MYLAR FILM CAP POLYPROPYLENE FILM CAP POLYPROPYLENE FILM CAP CERAMIC CAP CERAMIC CAP	マイラーコン PPコン PPコン 円筒セラコン セラコン	C221, 222 C263-266 C280, 282 C431, 432 C255-258, 419, 420		
	FG211150 FG211220 FG211470 FG212100 FG212390	CERAMIC CAP CERAMIC CAP CERAMIC CAP CERAMIC CAP CERAMIC CAP	セラコン セラコン セラコン セラコン セラコン	C251-254 C334, 335, 415, 416 C239, 240, 344, 345 C205, 206, 350, 351 C231, 232		
	FG213100 FG213150 FG413220 FG243680 FG244100	CERAMIC CAP CERAMIC CAP CERAMIC CAP CERAMIC CAP CERAMIC CAP	セラコン セラコン セラコン セラコン セラコン	C448, 449 C249, 250 C227, 228, 347, 346 C223, 224 C233, 234		
	FG244220 FG244470 UH218220 UH028100 UH137100	CERAMIC CAP CERAMIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP	セラコン セラコン ケミコン ケミコン ケミコン	C225, 226 C352, 353 C292 C336, 337 C203, 204, 235, 236, 243,		
	UH137330 UH237470 UH138100 UH147220	ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP	ケミコン ケミコン ケミコン ケミコン	244, 342, 343 C293 C332, 333, 241, 242 C356 C287-290, 348, 349		
	UH147470 UJ148490 UH157470 UH265220 Ui865150	ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP	ケミコン ケミコン ケミコン ケミコン ケミコン	C406, 407 C412 C259-262 C291 C217, 218		
	UH065680 UH166100 UH166220 UH166470 Ui367100	ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP	ケミコン ケミコン ケミコン ケミコン ケミコン	C213, 214 C209, 210 C201, 202 C237, 238 C354, 355		
* * *	UH129100 UW888220 VB681400 Vi660800 VG291100	ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP ELECTROLYTIC CAP	ケミコン ケミコン ケミコン ケミコン ケミコン	C330, 331 C279 C285, 286 C283, 284 C247, 248, 267, 268, 357,		△ △
	FW227330 Fi514100 VB930900 XG809A00	ELECTROLYTIC CAP CERAMIC CAP SEMI-CONDUCTIVE CERAMIC CAP SUB TRANSFORMER	BPケミコン スパークキラーコン 半導体セラコン サブトランス	358 C424 C411 C211, 212, 281 T202		△

*New Parts (新規部品)

ランク : Japan only

AV-70

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	GD900470 HV453220 HV453470 HV454100 HV454150	COIL FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR	RZ-001 1.5uH 2.2Ω 1/4W 4.7Ω 1/4W 10Ω 1/4W 15Ω 1/4W	クウシンコイル 不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗	L201, 202 R391, 480-483 R263, 264, 269, 270 R407, 408, 225, 226 R268	△
	HV454330 HV455150 HV455270 HV455330 HV455820	FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR	33Ω 1/4W 150Ω 1/4W 270Ω 1/4W 330Ω 1/4W 820Ω 1/4W	不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗	R378, 379 R227, 228 R370, 375 R253, 254, 368, 373 R251, 252	
	HV456120 HV456330 HV457120 HL322220 Vi661300	FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR FLAME PROOF CARBON RESISTOR METAL OXIDE RESISTOR METAL FILM RESISTOR	1.2KΩ 1/4W 3.3KΩ 1/4W 12KΩ 1/4W 0.22Ω 2W 1.5KΩ 2W	不燃化カーボン抵抗 不燃化カーボン抵抗 不燃化カーボン抵抗 酸化金属被膜抵抗 金属皮膜抵抗	R259, 260 R249, 250 R241-248 R255-258 R300	△
* *	XB449A00 XB467001 XF635A00 XF637A00 XH471A00	IC IC IC IC IC	AN7815F AN79M15F AN78M09F AN79M09F M5218AL	IC IC IC IC IC	IC204 IC205 IC206 IC207 IC202	△ △ △ △ △
	XB247301 iG076800 iG102700 iG151400 XD148001	IC IC IC IC IC	UPC4570HA NJM4558S UPC1188H M5226P BU4066B	IC IC IC IC IC	IC201 IC209 IC211, 212 IC219, 220 IC203	
* *	VD506000 KC001940 KB001520 KB003180 KB003150	RELAY RELAY FUSE FUSE FUSE	AC DG12D1-0(M) DC DH24D2-0T(M) 7A 125V 4A 125V 2.5A 250V	リレー リレー ヒューズ ヒューズ ヒューズ	RY202 RY201 F201 F202, 203 F204, 205	△ △ △ △ △
	LA002000 LA002320 LA002140 VG741700 Vi683800	LAPPING TERMINAL LAPPING TERMINAL LAPPING TERMINAL SPEAKER TERMINAL PIN JACK	2P 3P 2P T5980 T6312-CAAD	ラッピング端子 ラッピング端子 ラッピング端子 スピーカターミナル ピンジャック	TE201 TE202 TE203, 204 TE205 PJ203	
* * * *	Vi683900 Vi661800 VE116900 Vi327500 VD004600	PIN JACK PHONES JACK MINI JACK AC OUTLET BASE PIN	T6125-BAAE M1658-A0AA EX362GL 3P	ピンジャック ヘッドホンジャック ミニジャック ACアウトレット ベースピン	PJ201 JK201 JK202 JK203 CB214	△
	VD005200 LB918030 VB861200 iA101521 iA097000	BASE PIN BASE PIN PRE-SET POTENTIOMETER TRANSISTOR TRANSISTOR	9P 3P B2.2KΩ 2SA1015 Y 2SA970 GR, BL	ベースピン ベースツキポスト 半固定VR トランジスタ トランジスタ	CB201, 202 CB215, 216 VR201, 202 Q224, 226, 247 Q219	
	VA854700 iC1815C0 iC174070 iC224000	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1370 D,E,F 2SC1815 Y 2SC1740S R,S 2SC2240 GR, BL	トランジスタ トランジスタ トランジスタ トランジスタ	Q205, 206 Q227, 229, 246 Q223 Q201-204, 207, 208, 217, 218, 220, 221	

*New Parts (新規部品)

ランク : Japan only

● AV-70

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	iC287820	TRANSISTOR	2SC2878 A,B	トランジスタ	Q222,233,248,249	
	VE919600	TRANSISTOR	2SC2925 T	トランジスタ	Q232	
	iX608510	TRANSISTOR	2SA1358	トランジスタ	Q211,212	
	iX603590	TRANSISTOR	2SC3421	トランジスタ	Q209,210	
	VG722000	DIGITAL TRANSISTOR	DTC144ES	デジトラ	Q230	
	iF004600	DIODE	1SS133 T-77	ダイオード	D205,213,217,218	
	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	
	LB201880	FUSE HOLDER PIN	PC-FH1	ヒューズホルダピン		
	BA092970	RADIATOR		放熱器		
	BB066290	WASHER, GROUND		アースワッシャー		
	VF453200	RADIATOR		ラジエータ		C
	ED330086	BIND HEAD SCREW	3x8 FCM3-BL	バインドコネジ		
	EZ001350	CUP SCREW	3x14 FCM3-BL	カップネジ		C
	V1647200	SURROUND CIRCUIT BOARD		サラウンドシート		
	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	
	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	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C658	
	FG244220	CERAMIC CAP	0.022uF 50V	セラコン	C605,607	
	FG744330	CERAMIC CAP	0.033uF 50V	セラコン	C610	
	FG244470	CERAMIC CAP	0.047uF 50V	セラコン	C606	
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V	半導体セラコン	C663,664	
	UH138470	ELECTROLYTIC CAP	470uF 16V	ケミコン	C649	
	UH137100	ELECTROLYTIC CAP	10uF 16V	ケミコン	C665,666	
	UH166100	ELECTROLYTIC CAP	1uF 50V	ケミコン	C661,662	
	UM387220	ELECTROLYTIC CAP	22uF 6.3V	ケミコン	C627	
	UM027470	ELECTROLYTIC CAP	47uF 6.3V	ケミコン	C628	
	UM397100	ELECTROLYTIC CAP	10uF 16V	ケミコン	C601,602,621,625,634	
	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	

※New Parts (新規部品)

ランク : Japan only

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	UM216100	ELECTROLYTIC CAP	1uF 50V	ケミコン	C667,668	
	FM116100	ELECTROLYTIC CAP	1uF 50V	B P ケミコン	C657	
	HL315270	METAL OXIDE RESISTOR	270Ω 1W	酸化金属被膜抵抗	R636	
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W	不燃化カーボン抵抗	R675,676	
	IG076800	IC	NJM4558S	I C	IC801-803,806	
	IG152500	IC	BA6229	I C	IC608	
	IG001390	IC	RC4558D-V OPAMP	I C	IC610	
	XD386001	IC	LA2730	I C	IC607	
	XE387001	IC	UPC1571C	I C	IC604	
	XE817001	IC	YM3428	I C	IC605	
※	VI136400	PUSH SWITCH	SPEC12	プッシュ SW	SW601,602	
	VD004600	BASE PIN	3P	ベースピン	CB603,604,606,614	
※	VF071000	CERAMIC RESONATOR	3.5M	セラミック共振子	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	
※	VJ118000	POTENTIOMETER	Y100KΩ	ロータリーVR	VR604	
	IC287820	TRANSISTOR	2SC2878 A,B	トランジスタ	Q606,607	
	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	
※	VI647100	μ-COM CIRCUIT BOARD		マイコンシート		
	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	C30,32	
	FG212100	CERAMIC CAP	100pF 50V	セラコン	C36,37	
	FG212220	CERAMIC CAP	220pF 50V	セラコン	C4,5,42	
	FG212470	CERAMIC CAP	470pF 50V	セラコン	C41	
	FG244470	CERAMIC CAP	0.047uF 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	
	UH166470	ELECTROLYTIC CAP	4.7uF 50V	ケミコン	C28,33,34,39	
	UH147220	ELECTROLYTIC CAP	22uF 25V	ケミコン	C35,38	
	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	100Kx4	抵抗アレイ	R58	
※	VI660200	RESISTOR ARRAY	100Kx6	抵抗アレイ	R69	
※	XG938A00	IC	BA15218N	I C	IC1	
	IG076800	IC	NJM4558S	I C	IC2	
	XD148001	IC	BU4066B	I C	IC3-6	
	XA549001	IC	LB1294	I C	IC11	
※	XH076A00	IC	LC6505C-4277	I C	IC10	
	VE989900	LIGHT DETECTING MODULE	GP1U521Y	リモコン受光ユニット	U1	
	VE327300	PUSH SWITCH	EVQ-QRB04M	プッシュ SW	SW2-7	
	KA804550	PUSH SWITCH		プッシュスイッチ	SW8	
	LB401050	PIN JACK	T5859-A	ピンジャック	PJ1	

※New Parts (新規部品)

ランク : Japan only

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	LB401040	PIN JACK	T5858-A	ピンジャック	PJ7	
	LB606090	PIN JACK	T5916-A	ピンジャック	PJ2	
	LB202270	PIN JACK	T5854-A	ピンジャック	PJ3	
	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	
*	Vi583600	CERAMIC RESONATOR	400K	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	
	iA101521	TRANSISTOR	2SA1015 Y	トランジスタ	Q10	
	iC206000	TRANSISTOR	2SC2060 P,Q,R	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	Q4,5	
	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	D5,9	
	CB091290	P.C.B SUPPORT	NO.1645	基板サポート		
	BB071360	TERMINAL, SCREW	8.3x13	ネシ* 端子		

*New Parts (新規部品)

ランク : Japan only

■ AV-75PRO ELECTRICAL PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* *	Vi645300	MAIN CIRCUIT BOARD	メインシート		U	
	Vi645400	MAIN CIRCUIT BOARD	メインシート		C	
	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	C269, 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		
	UT452100	POLYPROPYLENE FILM CAP 100pF 100V	PPコン	C263-266		
	UT454100	POLYPROPYLENE FILM CAP 0.01uF 100V	PPコン	C280, 282		
	VG278400	CERAMIC CAP 220pF 50V	円筒セラコン	C431, 432		
	FG211100	CERAMIC CAP 10pF 50V	セラコン	C255-258, 419, 420		
	FG211150	CERAMIC CAP 15pF 50V	セラコン	C239, 240, 251-254		
	FG211220	CERAMIC CAP 22pF 50V	セラコン	C334, 335, 415, 416		
	FG211470	CERAMIC CAP 47pF 50V	セラコン	C344, 345, 360		
	FG212100	CERAMIC CAP 100pF 50V	セラコン	C350, 351		
	FG212680	CERAMIC CAP 680pF 50V	セラコン	C372, 373		
	FG213100	CERAMIC CAP 1000pF 50V	セラコン	C448, 449		
	FG213150	CERAMIC CAP 1500pF 50V	セラコン	C249, 250		
	FG413220	CERAMIC CAP 2200pF 50V	セラコン	C346, 347		
	FG244100	CERAMIC CAP 0.01uF 50V	セラコン	C400-402		
	FG244470	CERAMIC CAP 0.047uF 50V	セラコン	C352, 353		
	UH018220	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, 243, 244, 342, 343		
	UH137330	ELECTROLYTIC CAP 33uF 16V	ケミコン	C398, 293		
	UH237470	ELECTROLYTIC CAP 47uF 16V	ケミコン	C332, 333, 385, 391, 241, 242		
	UH138100	ELECTROLYTIC CAP 100uF 16V	ケミコン	C356		
	UH238220	ELECTROLYTIC CAP 220uF 16V	ケミコン	C384		
	UH247100	ELECTROLYTIC CAP 10uF 25V	ケミコン	C207, 208, 366, 367, 405, 393-396		
	UH147220	ELECTROLYTIC CAP 22uF 25V	ケミコン	C287-290, 348, 349		
	FM227330	ELECTROLYTIC CAP 33uF 25V	BPケミコン	C424		
	UJ148470	ELECTROLYTIC CAP 470uF 25V	ケミコン	C412		
	UH157470	ELECTROLYTIC CAP 47uF 35V	ケミコン	C259-262		
	UH265220	ELECTROLYTIC CAP 0.22uF 50V	ケミコン	C291		
	UH166100	ELECTROLYTIC CAP 1uF 50V	ケミコン	C359, 399, 409, 410, 278		
	UH166220	ELECTROLYTIC CAP 2.2uF 50V	ケミコン	C403, 404		
	UH166330	ELECTROLYTIC CAP 3.3uF 50V	ケミコン	C201, 202		
	UH066470	ELECTROLYTIC CAP 4.7uF 50V	ケミコン	C235, 236, 378-381, 390, 392		
	U1367100	ELECTROLYTIC CAP 10uF 50V	ケミコン	C354, 355		
* * *	UH129100	ELECTROLYTIC CAP 1000uF 10V	ケミコン	C330, 331		
	UW888220	ELECTROLYTIC CAP 220uF 80V	ケミコン	C279		
	VE681400	ELECTROLYTIC CAP 3300uF 35V	ケミコン	C285, 286		
	Vi660800	ELECTROLYTIC CAP 8200uF 65V	ケミコン	C283, 284		

* New Parts (新規部品)

ランク : Japan only

● AV-75PRO

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
+	VG291100	ELECTROLYTIC CAP	33uF 50V	ケミコン	C267, 268, 247, 248, 357, 358	
	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		サプトランス	T202	△
+	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	R407, 408, 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	
	HV455150	FLAME PROOF CARBON RESISTOR	150Ω 1/4W	不燃化カーボン抵抗	R453, 454, 227, 228	
	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	
	HV455330	FLAME PROOF CARBON RESISTOR	330Ω 1/4W	不燃化カーボン抵抗	R253, 254, 368, 373	
+	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	
	HL322220	METAL OXIDE RESISTOR	0.22Ω 2W	酸化金属被膜抵抗	R255-258	△
+	VI661300	METAL FILM RESISTOR	1.5KΩ 2W	金属皮膜抵抗	R300	△
	XB449A00	IC	AN7815F	IC	IC204	△
	XB467001	IC	AN79M15F	IC	IC205	△
	XF635A00	IC	AN78M09F	IC	IC206	△
	XF637A00	IC	AN79M09F	IC	IC207	△
+	XB247001	IC	UPC4570HA	IC	IC201	
	XH471A00	IC	M5218AL	IC	IC202	
	IG076800	IC	NJM4558S	IC	IC209, 210	
	IG102700	IC	UPC1188H	IC	IC211, 212	
	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 DG12D1-0 (M)	リレー	RY202	△
	KC001940	RELAY	DC DH24D2-OT (M)	リレー	RY201	
+	KB001520	FUSE	7A 125V	ヒューズ	F201	△
	KB003180	FUSE	4A 125V	ヒューズ	F202, 203	△
	KB003150	FUSE	2.5A 250V	ヒューズ	F204, 205	△
	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	
+	VI683800	PIN JACK	T6312-CAAD	ピンジャック	PJ203	
	VI683900	PIN JACK	T6125-BAAE	ピンジャック	PJ201	
	VI661600	PHONES JACK	M1658-AOAA	ヘッドホンジャック	JK201	
	VE116900	MINI JACK	EX362GL	ミニジャック	JK202	
	VI327500	AC OUTLET		ACアウトレット	JK203	△

*New Parts (新規部品)

ランク : Japan only

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VD004500	BASE PIN	2P	ベースピン	CB217	
	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	
	IC174070	TRANSISTOR	2SC1740S R, S	トランジスタ	Q223	
	IC224000	TRANSISTOR	2SC2240 GR, BL	トランジスタ	Q201-204, 207, 208, 217.	
	IC287820	TRANSISTOR	2SC2878 A, B	トランジスタ	218, 220, 221	
	VE919600	TRANSISTOR	2SC2925 T	トランジスタ	Q222, 234, 233, 248, 249	
	IX608510	TRANSISTOR	2SA1358	トランジスタ	Q232	
	IX603590	TRANSISTOR	2SC3421	トランジスタ	Q221, 212	
	VG722000	DIGITAL TRANSISTOR	DTC144ES	デジトラ	Q230	
	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	
	LB201880	FUSE HOLDER PIN	PC-FH1	ヒューズホルダピン		
	BA092970	RADIATOR		放熱器		
	BB066290	WASHER, GROUND		アースワッシャー		
	VF453200	RADIATOR		ラジエータ	C	
	ED330086	BIND HEAD SCREW	3x8 FCM3-BL	バインドコネジ		
	EZ001350	CUP SCREW	3x14 FCM3-BL	カップネジ	C	
	VI913500	SHIELD PLATE		シールドプレート		
	VI645800	SURROUND CIRCUIT BOARD		サラウンドシート		
	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	
	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	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C658	
	FG244220	CERAMIC CAP	0.022uF 50V	セラコン	C605, 607	
	FG744330	CERAMIC CAP	0.033uF 50V	セラコン	C610	
	FG244470	CERAMIC CAP	0.047uF 50V	セラコン	C606	

*New Parts (新規部品)

ランク : Japan only

● AV-75PRO

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V 半導体セラコン	C663,664		
	UH137100	ELECTROLYTIC CAP	10uF 16V ケミコン	C665,666		
	UH138470	ELECTROLYTIC CAP	470uF 16V ケミコン	C659		
	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		
*	UM387470	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		
*	UM415220	ELECTROLYTIC CAP	0.22uF 50V ケミコン	C622,633		
	UM415330	ELECTROLYTIC CAP	0.33uF 50V ケミコン	C639		
*	UM416100	ELECTROLYTIC CAP	1uF 50V ケミコン	C611,612,623,626,636,		
	FM116100	ELECTROLYTIC CAP	1uF 50V B P ケミコン	637,641,647,648,650		
	HL315270	METAL OXIDE RESISTOR	270Ω 1W 酸化金属被膜抵抗	C657		
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W 不燃化カーボン抵抗	R636		
	IG076800	IC	NJM4558S IC	R675,676		
				IC601-603,606		
	IG152500	IC	BA6229 IC	IC608		
	IG001390	IC	RC4558D-V IC	IC610		
	XD386001	IC	LA2730 IC	IC607		
	XE387001	IC	UPC1571C IC	IC604		
	XE817001	IC	YM3428 IC	IC605		
*	Vi686000	ROTARY SWITCH	SRBV13013A ロータリーSW	SW604		
*	Vi136600	PUSH SWITCH	SPEC12 プッシュSW	SW601,602		
*	Vi635600	PUSH SWITCH	SPEC12291B プッシュSW	SW603		
	VD004600	BASE PIN	3P ベースピン	CB603,604,606,614		
	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		
	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		
*	Vi645700	μ-COM CIRCUIT BOARD	マイコンシート			
	FA153100	MYLAR FILM CAP	1000pF 50V マイラーコン	C69		
	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	C30,32		
	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		
	FG212100	CERAMIC CAP	100pF 50V セラコン	C36,37		
	FG212220	CERAMIC CAP	220pF 50V セラコン	C4,5,42		
	FG212470	CERAMIC CAP	470pF 50V セラコン	C41		
	FG244100	CERAMIC CAP	0.01uF 50V セラコン	C81		
	FG244470	CERAMIC CAP	0.047uF 50V セラコン	C56,80		
	VG279100	CERAMIC CAP	1200pF 18V 円筒セラコン	C43,46		

*New Parts (新規部品)

ランク : Japan only

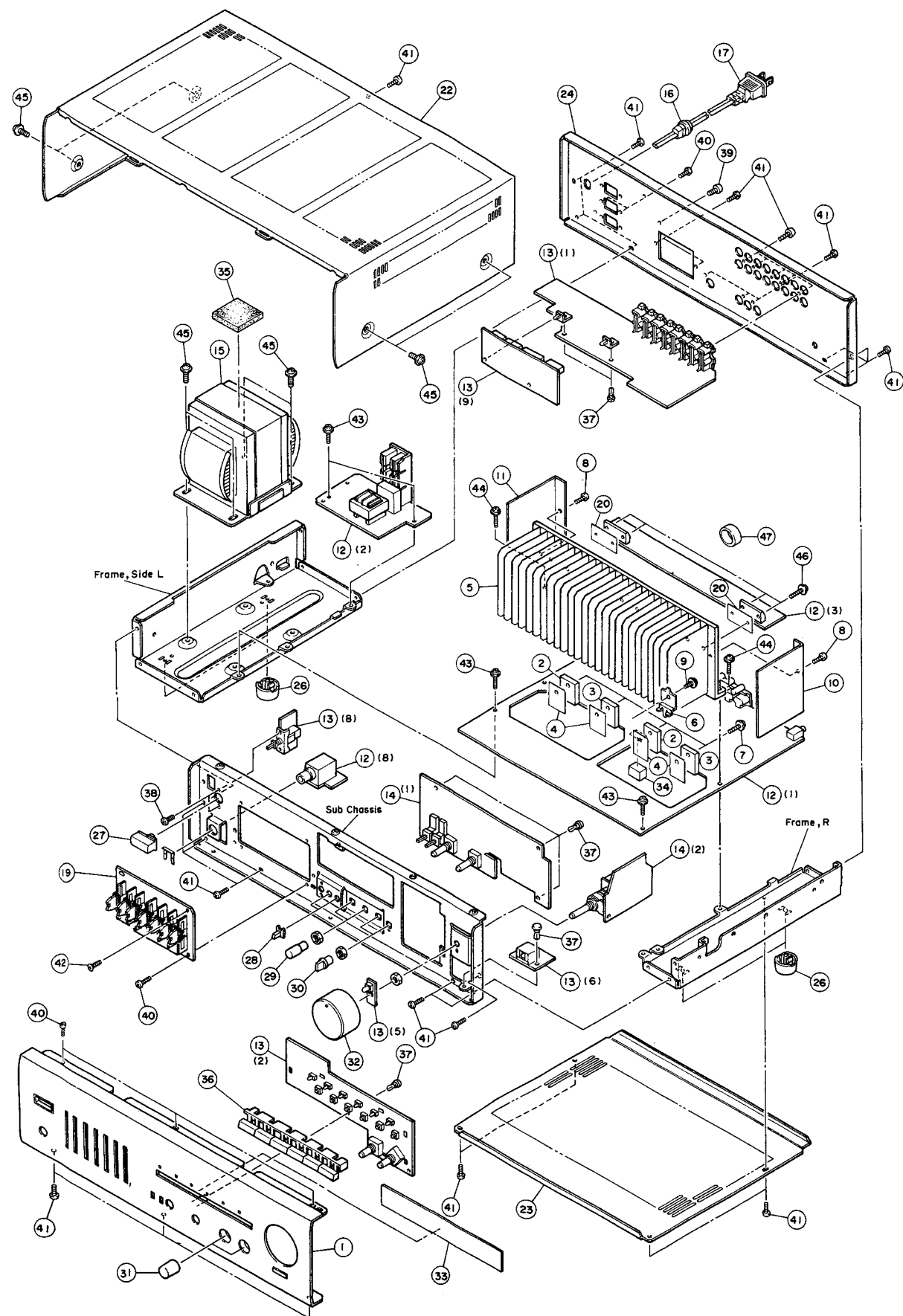
● AV-75PRO

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	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	C28,33,39,34		
	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	100Kx4 抵抗アレイ	R58		
*	Vi660200	RESISTOR ARRAY	100Kx6 抵抗アレイ	R69		
*	XG938A00	IC	BA15218N IC	IC1		
	IG076800	IC	NJM4558S OPAMP IC	IC2		
	XD148001	IC	BU4066B IC	IC3-6		
*	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	EVQ-QRB04M プッシュSW	SW2-7		
	KA804550	PUSH SWITCH	ブッシュスイッチ	SW8		
*	VJ144400	PIN JACK	T6312 ピンジャック	PJ6		
	LB401030	PIN JACK	T5857-A ピンジャック	PJ5		
	LB401040	PIN JACK	T5858-A ピンジャック	PJ7		
	LB401050	PIN JACK	T5859-A ピンジャック	PJ1		
	LB606090	PIN JACK	T5916-A ピンジャック	PJ2		
	LB202270	PIN JACK	T5854-A ピンジャック	PJ3		
	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		
	Vi583600	CERAMIC RESONATOR	400K 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	Q10		
	IC206000	TRANSISTOR	2SC2060 P,Q,R 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	Q4,5		
	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	D5,9		
	CB091290	P.C.B SUPPORT	NO.1645 基板サポート			
	BB071360	TERMINAL,SCREW	8.3x13 ネジ 端子			

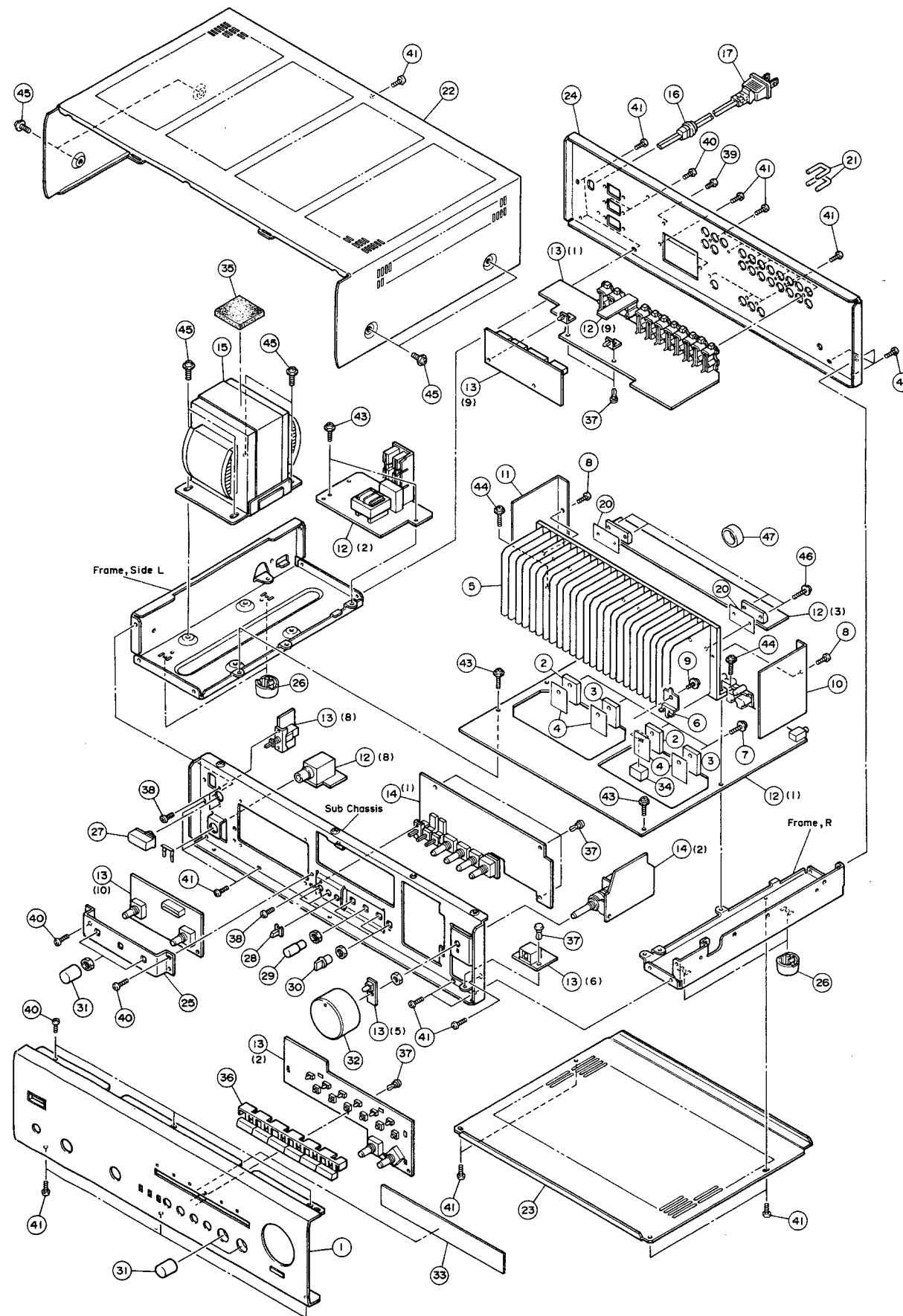
*New Parts (新規部品)

ランク : Japan only

■ AV-70 EXPLODED VIEW



■ AV-75PRO EXPLODED VIEW



■ AV-70/75PRO MECHANISM PARTS Note) Ø : Diameter

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* 01	Vi645000	PANEL UNIT	AV-75PRO	パネルユニット		
* 01	Vi646400	PANEL UNIT	AV-70	パネルユニット		
02	iX611020	TRANSISTOR	2SB1347	トランジスタ	Q215,216	△
03	iX611030	TRANSISTOR	2SD2029	トランジスタ	Q213,214	△
04	VC397200	SHEET	D-290	デンカシート		
* 05	Vi235300	RADIATOR		ラジエータ		
06	VF545900	SUPPORT		サポート		
07	EZ001350	CUP B-TIGHT SCREW	3x14 FCM3-BL	カップ Bタイト		
08	E1330086	BINDING HEAD TAPPING SCREW	3x8 FCRM3-BL	バインドBタイト		
09	EK365080	BW HEAD SCREW	3x8 FCM3	BWヘッドタッピングネジ		
* 10	Vi632500	SHIELD PLATE L		シールドプレート L		
* 11	Vi632600	SHIELD PLATE R		シールドプレート R		
* 12	Vi645300	MAIN CIRCUIT BOARD	AV-75PRO	メインシート	U	
* 12	Vi645400	MAIN CIRCUIT BOARD	AV-75PRO	メインシート	C	
* 12	Vi646800	MAIN CIRCUIT BOARD	AV-70	メインシート	U	
* 12	Vi646900	MAIN CIRCUIT BOARD	AV-70	メインシート	C	
* 13	Vi645700	μ-COM CIRCUIT BOARD	AV-75PRO	マイコンシート		
* 13	Vi647100	μ-COM CIRCUIT BOARD	AV-70	マイコンシート		
* 14	Vi645800	SURROUND CIRCUIT BOARD	AV-75PRO	サラウンドシート		
* 14	Vi647200	SURROUND CIRCUIT BOARD	AV-70	サラウンドシート		
* 15	XH043A00	POWER TRANSFORMER	AV-75PRO	電源トランス	U	△
* 15	XH044A00	POWER TRANSFORMER	AV-75PRO	電源トランス	C	△
* 15	XH045A00	POWER TRANSFORMER	AV-70	電源トランス	U	△
* 15	XH046A00	POWER TRANSFORMER	AV-70	電源トランス	C	△
16	CB620200	CORD STOPPER	CM-22C	コードストッパー		△
17	MG002220	POWER CORD	10A SPT-2	電源コード		
19	VE299000	SLIDE POTENTIOMETER BLOCK	AV-70 B250KΩ	スライドVRブロック		
20	VG429100	SHEET	BFG-20AD	シート		
21	LB101110	PLUG, SHORT	AV-75PRO P2148	ショートプラグ		
* 22	Vi207600	TOP COVER		トップカバー		
* 23	Vi209900	BOTTOM COVER		ボトムカバー		
* 24	Vi208300	REAR PANEL	AV-75PRO	リヤパネル	U	
* 24	Vi208400	REAR PANEL	AV-75PRO	リヤパネル	C	
* 24	Vi208600	REAR PANEL	AV-70	リヤパネル	U	
* 24	Vi208700	REAR PANEL	AV-70	リヤパネル	C	
* 25	Vi210100	HOLDER	AV-70PRO	ホルダー		
26	CB610390	LEG		トランレグ		
27	VH841900	BUTTON	10/25	ボタン		
* 28	Vi210300	BUTTON	3X6	ボタン		
* 29	Vi211100	KNOB		ノブ		
30	VH888800	KNOB	D10	ノブ		
* 31	Vi211300	KNOB		ノブ		
32	Vi051200	KNOB	D45	ノブ		
* 33	VJ079000	SHIELD PLATE		シールドプレート		
34	VF201500	DAMPER	10x10x20	ダンパー		
* 35	Vi913300	DAMPER	AV-75PRO	ダンパー		
* 35	Vi913200	DAMPER	AV-70	ダンパー		
* 36	Vi210900	BUTTON	6P	ボタン		
37	CB068880	PLASTIC RIVET	#1027	ブラリベット		
38	ED330066	BINDING HEAD SCREW	3x6 FCRM3-BL	バインド小ネジ		

* New Parts (新規部品)

ランク : Japan only

● AV-70/75PRO

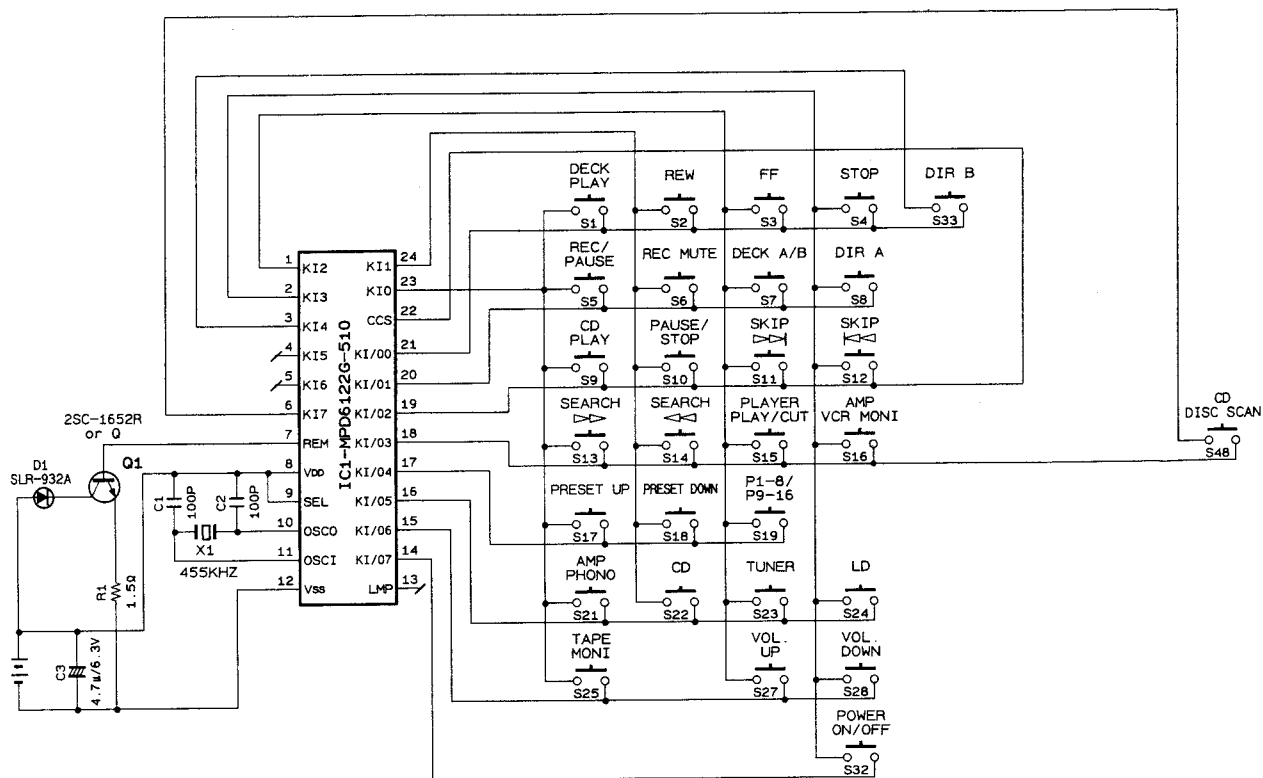
Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
39	ED330066	BINDING HEAD SCREW	3x8 FCM3-BL	バインド小ネジ		
39	EV413036	TOOTHED LOCK WASHER	3MM ZMC2-BL	歯付座金		
40	Ei330086	BINDING HEAD TAPPING SCREW	3x8 FCM3-BL	バインドBタイトネジ		
41	EN301010	BIND HEAD BONDING TAP. SCREW	3x8 FCM3-BL	ボンディングBタイトネジ		
42	EO330086	FLAT HEAD TAPPING SCREW	3x8 FCM3-BL	皿タッピングネジ		
43	EK336010	BW HEAD TAPPING SCREW	3x8 FCM3	BWヘッドタッピングネジ		
44	EK330030	BW HEAD TAPPING SCREW	3x10-8 FCM3	BWヘッドタッピングネジ		
45	EK365090	BW HEAD SCREW	4x8 ZMC2-BL	BWヘッドネジ		
46	EZ001350	CUP B-TIGHT SCREW	3x14 FCM3-BL	カップBタイトネジ		
47	Vi491100	FERRITE CORE		フェライトコア		
	CB069251	BINDING TIE	BK-1	束線止め		
		ACCESSORIES		付属品		
	Vi810700	REMOTE CONTROL TRANSMITTER		リモコントランスミッター	AV-70	
	CX613770	LID		電池蓋	AV-70	
		DRY CELL	UM-4, R03, AAA	マンガン電池	AV-70	
	Vi660500	REMOTE CONTROL TRANSMITTER		ラーニングリモコン	AV-75PRO	
		DRY CELL	SUM-3, R6, AA	マンガン電池	AV-75PRO	
	VH447900	ACCESSORIES	LABEL	付属品 A S S Y	AV-75PRO	

※New Parts (新規部品)

ランク : Japan only

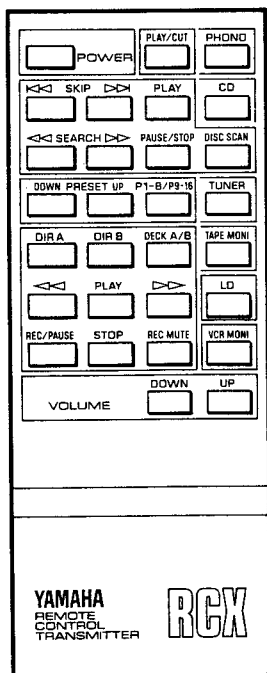
AV-70 REMOTE CONTROL TRANSMITTER

■ SCHEMATIC DIAGRAM



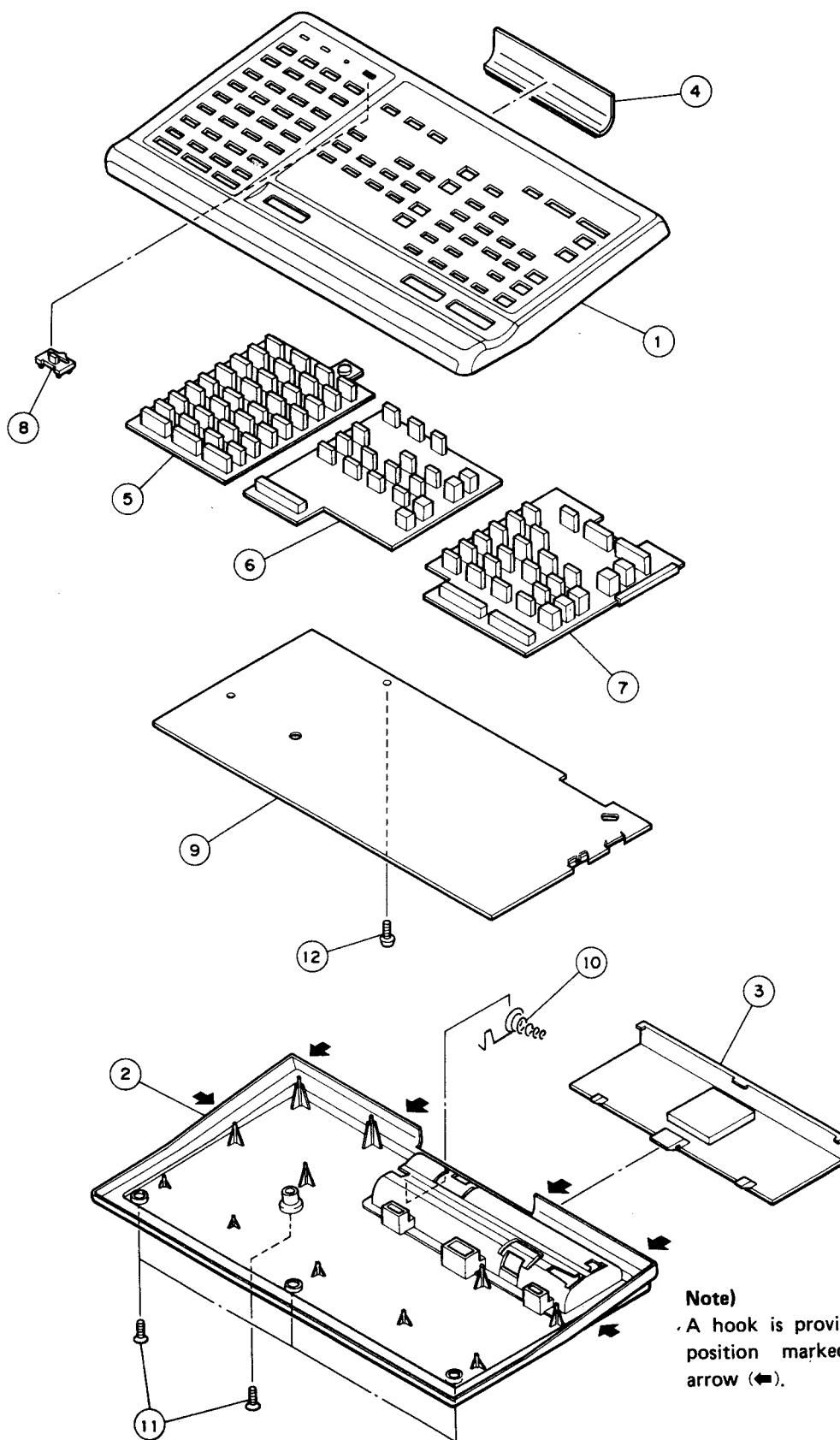
CUSTOM CODE

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	DECK PLAY
2	1	0	0	0	0	0	0	0	DECK REW
3	0	1	0	0	0	0	0	0	DECK FF
4	1	1	0	0	0	0	0	0	DECK STOP
5	0	0	1	0	0	0	0	0	DECK REC/PAUSE
6	1	0	1	0	0	0	0	0	DECK REC MUTE
7	0	1	1	0	0	0	0	0	DECK DECK AB
8	1	1	1	0	0	0	0	0	DECK 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 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	PLAYER PLAY/CUT
16	1	1	1	1	0	0	0	0	AMP VCR MONI
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 MONI
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	POWER ON/OFF
33	0	0	0	0	0	0	1	0	DECK DIR B
48	1	1	1	1	0	0	1	0	CD DISC SCAN

AV-70/75PRO

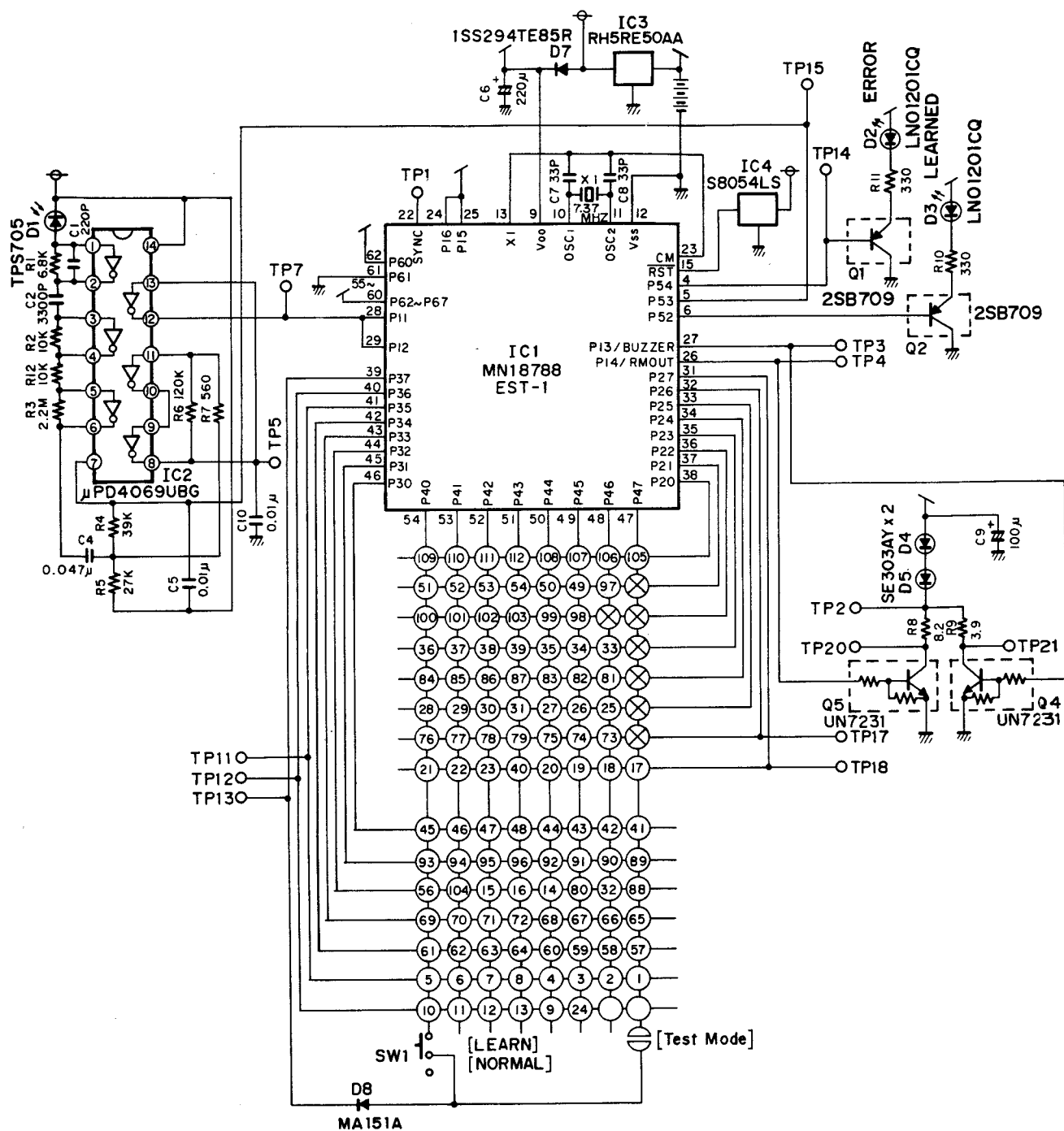
AV-75PRO REMOTE CONTROL TRANSMITTER**■ EXPLODED VIEW**

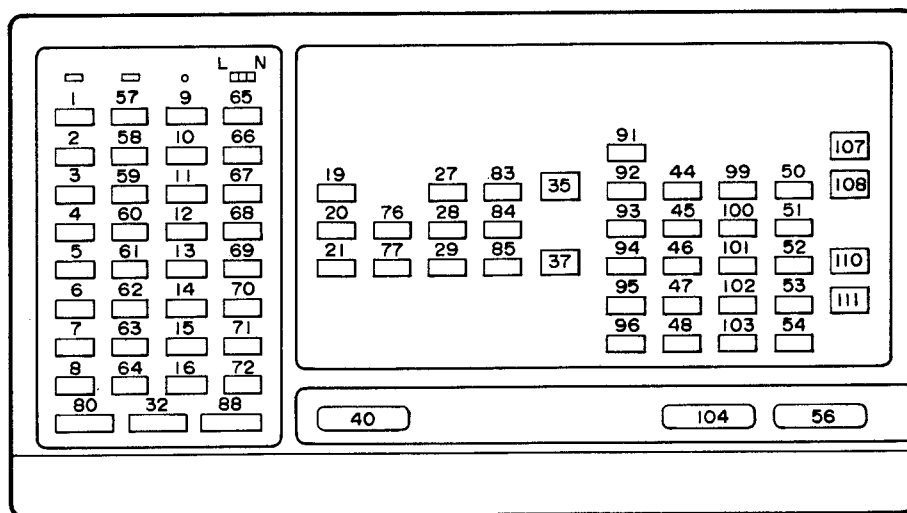
Note)
 A hook is provided at each
 position marked with an
 arrow (↔).

■ PARTS LIST

Ref. No.	Part No.	Description		部品名	Remarks	Markets	ランク
* ※ 1 2 3 4	VIG60500 CX614520 CX611070 CX611080 CX607950	Remoto Control Transmitter Case(A)Ass'y Case(B) Lid Filter,Smoke		リモートコントロールトランスミッター 上ケース 下ケース 電池蓋 スモーク板		UR66CS200E UR66EC201E UR66SB257	
* ※ 5 6 7 8 9	CX611090 CX614530 CX614540 CX608090 NX607300	Rubber>Contact(A) " (B) " Knob P.C.Board Ass'y		ゴム接点(A) " (B) " ナミ プリント基板Ass'y		UR66CT202A UR66CT203N UR66CT204M UR66VTM83 UR66VPB133	
10 11 12	LX602520 E0320066 EJ020056	Terminal,Battery Flat Head Tapping Screw Pan Head Tapping Screw	2×6 FCRM3-BI 2×5 ZMC2-Y	共通電極板 皿タッピンネジ パンタッピンネジ	PACK PACK	UR66TD239 XTS2+6GFZ XTB2+5GFZ	
	NX607300 IX612280 IX614280 IX615900	P.C. Board Ass'y Photo Diode LED(Red) LED	TPS705 LN01201CQ SE303AY	プリント基板Ass'y フォトダイオード LED 赤外線LED	D1 D2,3 D4,5	UR66VPB133	
	QX600270 UJ128220 UJ128100	Ceramic Resonator Electrolytic Cap. "	CSA733MTTF 220 μF 10V 100 μF 10V	セラミック発振子 エレクトロリチックコンデンサ	X1 C6 C9		
	LX602530 LX602540	Terminal Battery "		電極板 "	- +	UR66TD209 UR66TD208	

■ SCHEMATIC DIAGRAM





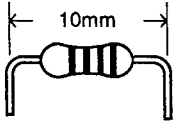
Key No.	CONTROL CODE	FUNCTION	Key No.	CONTROL CODE	FUNCTION
1-16		LEARNING	57-72		LEARNING
17	—	—	73	—	—
18	—	—	74	—	—
19	7C-01	LD OPEN/CLOSE	75	—	—
20	7C-02	LD CHAPTER "—"	76	7C-03	LD CHAPTER "+"
21	7C-0A	LD STILL ◀	77	7C-0B	LD STILL ▶
22	—	—	78	—	—
23	—	—	79	—	—
24	—	—	80	—	LEARNING
25	—	—	81	—	—
26	—	—	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 MONI	93	7A-0D	CD SEARCH ◀◀
38	—	—	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 MONI
56	(7A-1A)	(VOLUME UP)	112	—	—

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	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	HF856100			
1.2 KΩ	HJ35 6120	HF856120			
1.5 KΩ	HJ35 6150	HF856150			
1.8 KΩ	HJ35 6180	HF856180			
2.0 KΩ	HJ35 6200	HF856200			
2.2 KΩ	HJ35 6220	HF856220			
2.4 KΩ	HJ35 6240	HF856240			
2.7 KΩ	HJ35 6270	HF856270			
3.0 KΩ	HJ35 6300	HF856300			
3.3 KΩ	HJ35 6330	HF856330			
3.6 KΩ	HJ35 6360	HF856360			
3.9 KΩ	HJ35 6390	HF856390			
4.7 KΩ	HJ35 6470	HF856470			
5.1 KΩ	HJ35 6510	HF856510			
5.6 KΩ	HJ35 6560	HF856560			
6.8 KΩ	HJ35 6680	HF856680			
8.2 KΩ	HJ35 6820	HF856820			
9.1 KΩ	HJ35 6910	HF856910			
10 KΩ	HJ35 7100	HF857100			

1/4W Type

HJ35○○○○



1/6W Type

HF85○○○○

