

STEREO AMPLIFIER

AV-65/66YST

SERVICE MANUAL

AV-65/66YST

IMPORTANT NOTICE

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

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

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

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

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

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

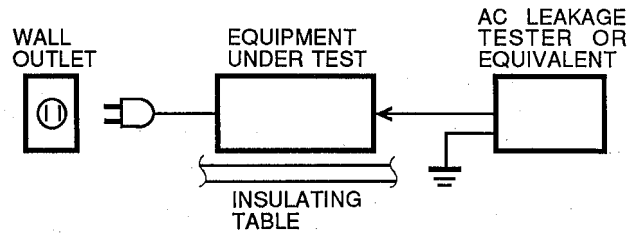
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■ TO SERVICE PERSONNEL

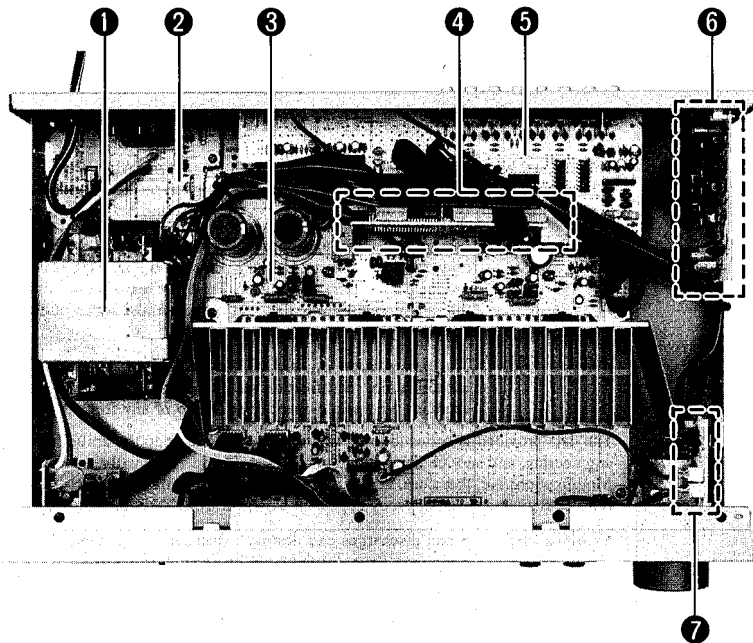
1. Critical Components Information.
Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Model Only).
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μ F.
 - 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.

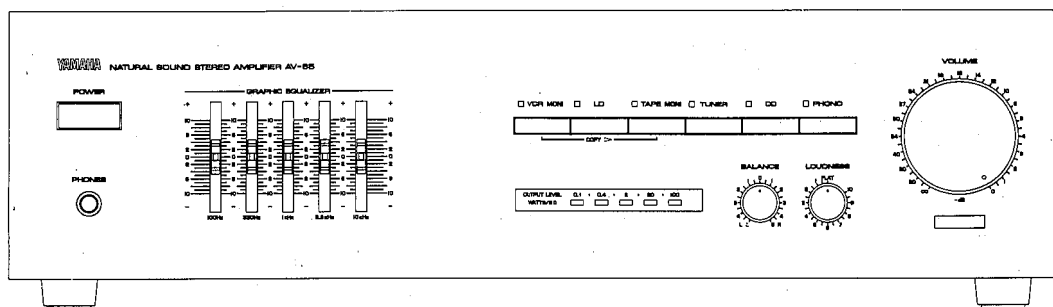
■ INTERNAL VIEW



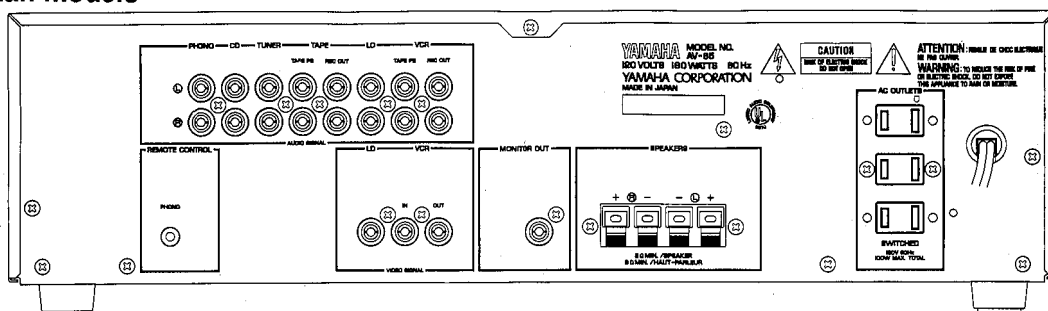
- ① POWER TRANSFORMER
- ② MAIN CIRCUIT BOARD (2)
- ③ MAIN CIRCUIT BOARD (1)
- ④ μ -COM CIRCUIT BOARD (9)
- ⑤ μ -COM CIRCUIT BOARD (1)
- ⑥ MAIN CIRCUIT BOARD (4) : AV-66YST only
- ⑦ μ -COM CIRCUIT BOARD (3)

■ PANEL CONTROLS

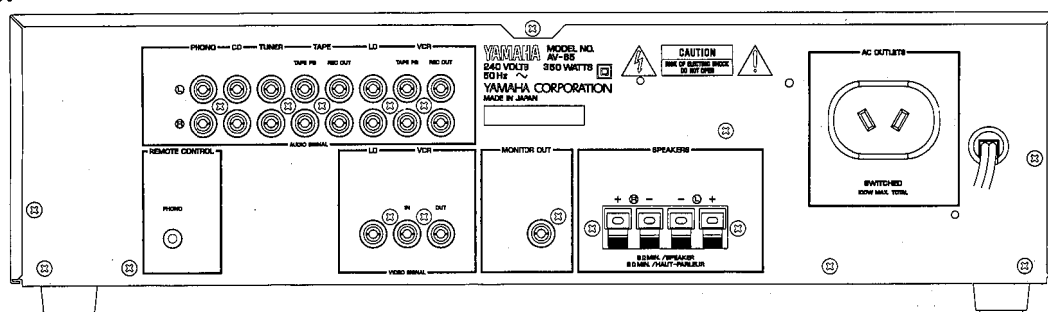
● AV-65



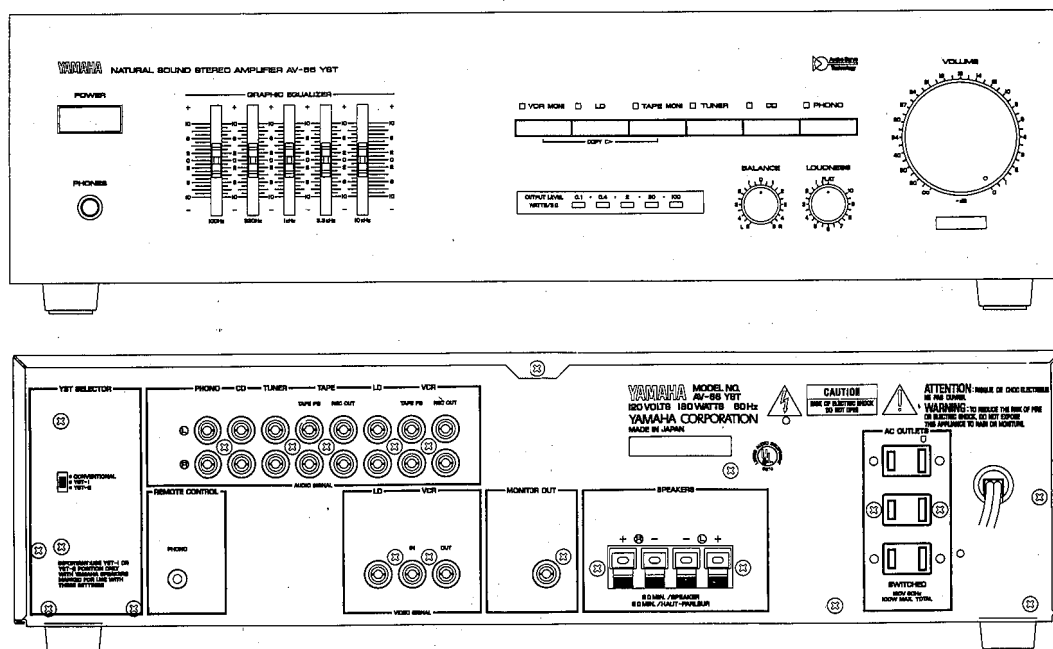
▼ U. S. A & Canadian models



▼ Australian model



● AV-66 YST



■ SPECIFICATIONS

■ AUDIO SECTION

Minimum RMS Output Power Per Channel 20Hz~20kHz, 0.1% THD, 8Ω		100W
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
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	
Graphic Equalizer		
Control Frequency	100Hz, 330Hz, 1kHz, 3.3kHz, 10kHz	
Boost/Cut	±10dB	
Continuous Loudness Control (Level related equalization)		
Attenuation	-20dB (1kHz)	
Gain tracking error (0dB~-60dB)		3dB

■ VIDEO SECTION

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

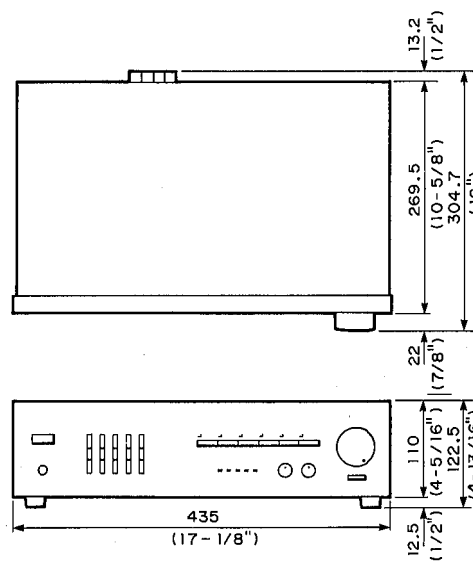
■ GENERAL

Power Supply		
U, C models	AC 120V, 60Hz	
A model	AC 240V, 50Hz	
Power Consumption		
U model	180W	
C model	390VA / 306W	
A model	350W	
AC Outlet		
Switched x 3 (U, C)	100W max. (Total)	
Switched x 1 (A)	100W max.	
Dimensions (WxHxD)		435 x 122.5 x 304.7 mm (17-1/8" x 4-13/16" x 12")
Weight		6.9kg (15 lbs 3 oz)

**Specifications subject to change without notice.*

C Canadian model
U U. S. A. model
A Australian model

● DIMENSIONS



Unit : mm (inch)

● Installation of Top Cover

< Example of incorrect installation >

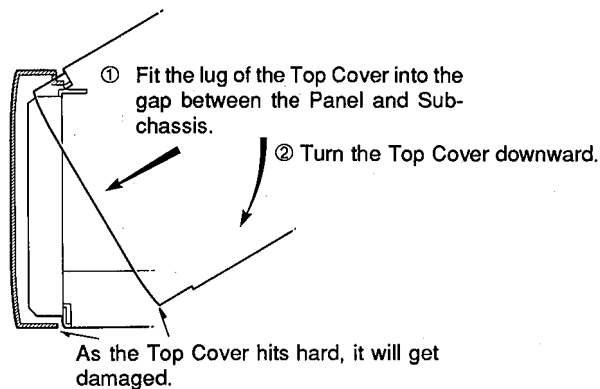


Fig. 2

< Example of correct installation >

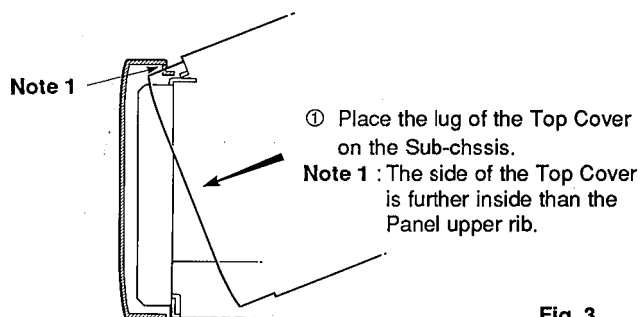


Fig. 3

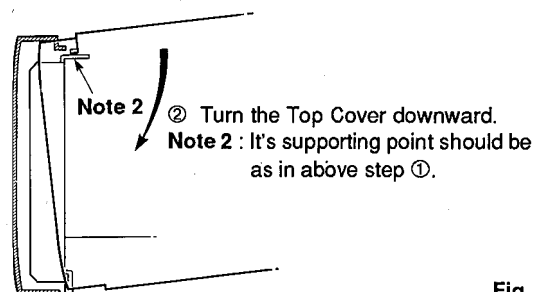


Fig. 4

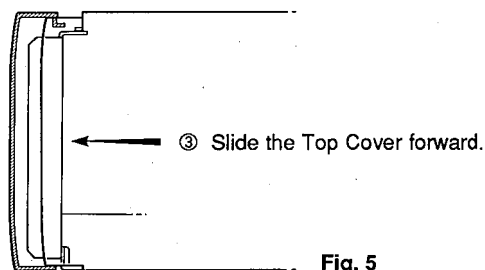


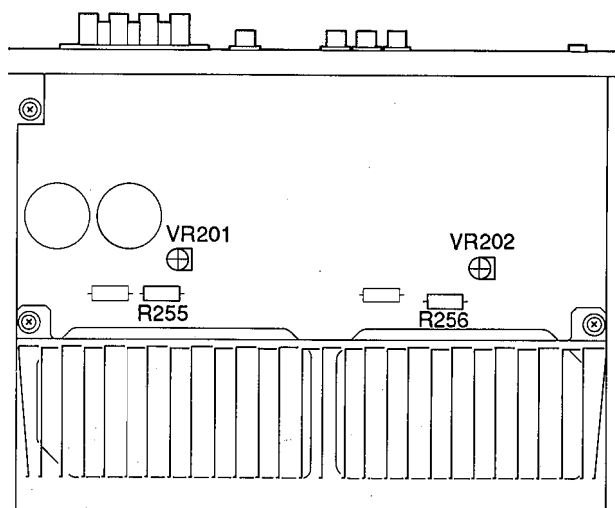
Fig. 5

■ 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.

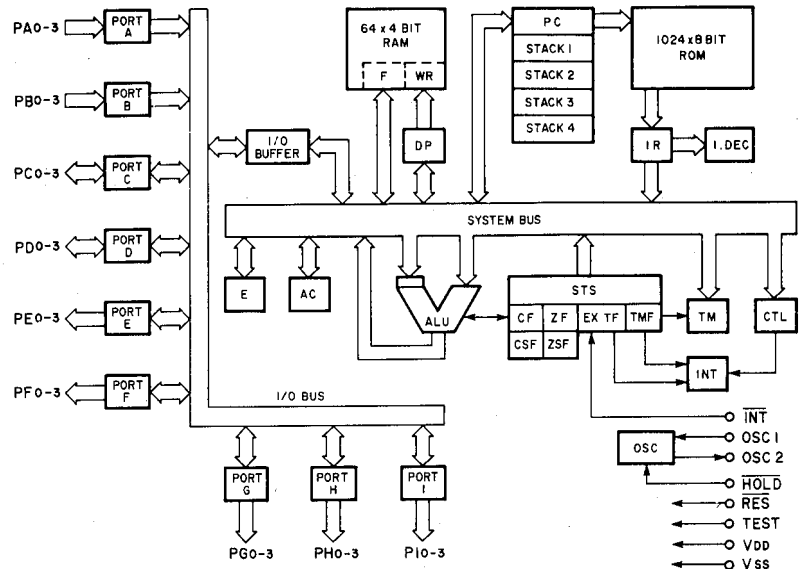
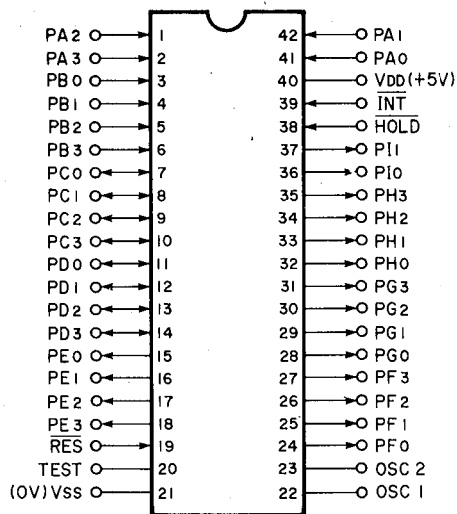
Adjust VR201 (L ch) and VR202 (R ch) so that the voltage at both R255 (L ch) and R256 (R ch) becomes $DC1.5mV \pm 0.3mV$.



IC DATA

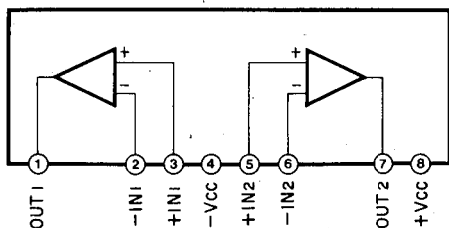
IC107 : LC6505C-4277

4 bit μ -COM

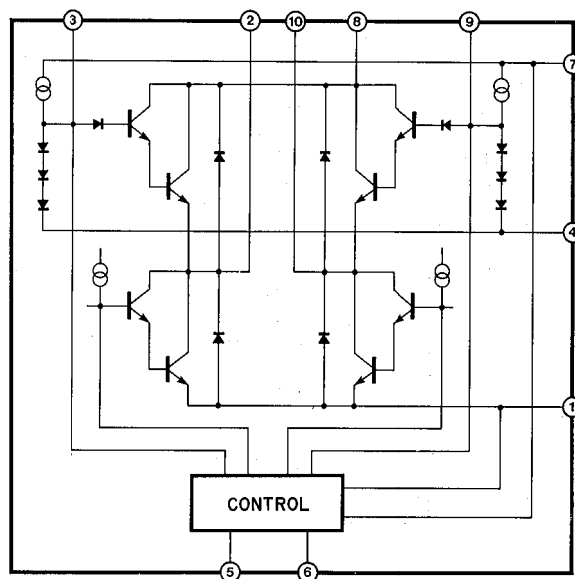


Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
1	PA2	I	Not used	24	PF0	O	PHONO
2	PA3	I	H level (TAPE MON)	25	PF1	O	CD
3	PB0	I	Key input (H : ON)	26	PF2	O	TUNER
4	PB1	I		27	PF3	O	VDP
5	PB2	I		28	PG0	O	TAPE
6	PB3	I		29	PG1	O	VCR
7	PC0	I/O	Key scan signal (H : Active)	30	PG2	O	Not used
8	PC1	I/O		31	PG3	O	Power control signal (H : ON)
9	PC2	I/O		32	PH0	O	Volume Up control signal
10	PC3	I/O	PLO PHONO PLAY/CUT control signal	33	PH1	O	Volume Down control signal
11	PD0	I/O	Not used	34	PH2	O	Tuner control signal (Not used)
12	PD1	I/O	CD control signal (Not used)	35	PH3	O	
13	PD2	I/O		36	PI0	O	AMUTE Audio Muting control signal (L : Active) (Not used)
14	PD3	I/O		37	PI1	O	MUTE Muting control signal (L : Active)
15	PE0	I/O	DECK control signal (Not used)	38	HOLD	I	μ -COM Back up control (L : Back up, H : Active)
16	PE1	O		39	INT	I	+5V
17	PE2	O		40	VDD	—	+5V
18	PE3	O		41	PA0	I	Remote control Data input
19	RES	O	Reset input	42	PA1	I	Power On/OFF back up (H : Back up, L : Ever ON)
20	TEST	I	LSI test terminal (GND)				
21	VSS	—	GND				
22	OSC1	—	μ -COM clock circuit 400kHz				
23	OSC2	I					

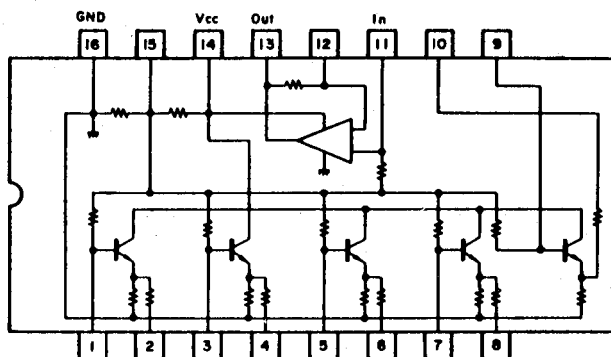
IC1 : BA15218N or M5218L (V)
IC202, 208 : M5218AL
Dual Ope-amp



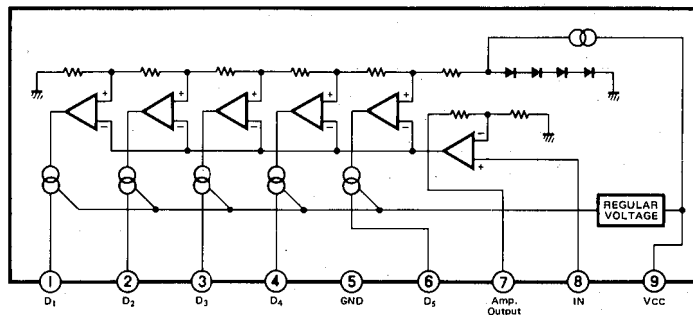
IC8 : BA6229
Motor Drive



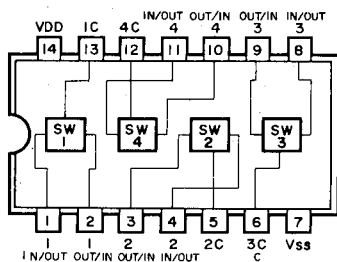
IC219, 220 : M5226P
Equalizer Amp



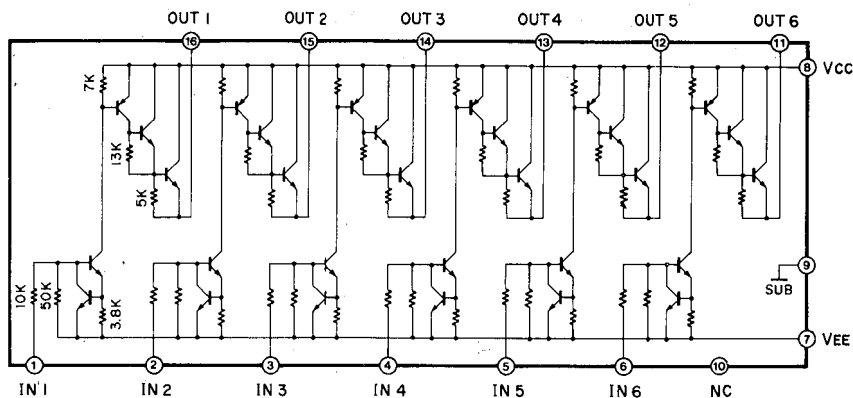
IC9 : BA6144
Level Meter Drive



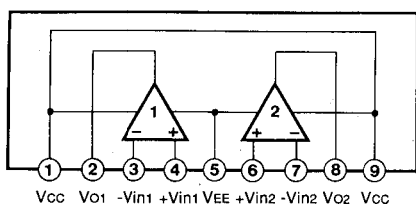
IC3~6, 203 : LC4066B or BU4066B
Quad Bilateral Switch



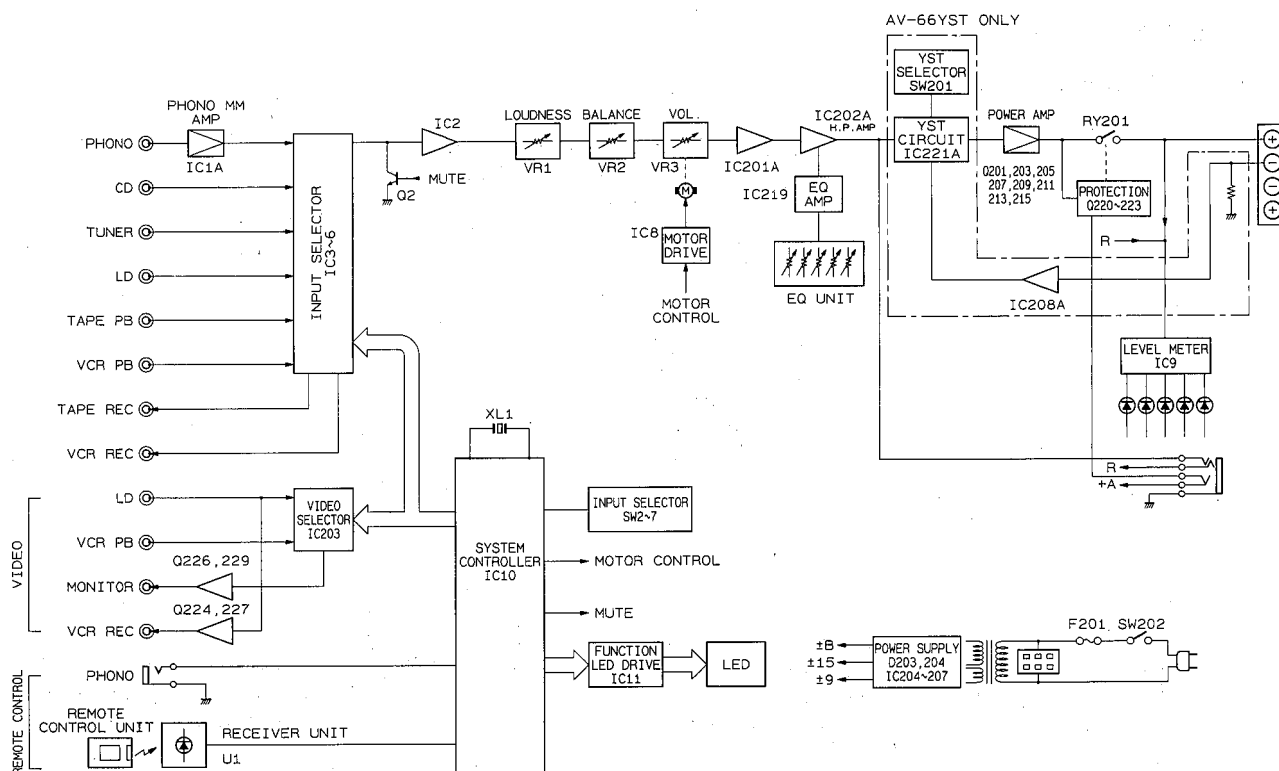
IC11 : LB1294
LED Drive



IC2 : NJM4558S
IC201 : μ PC4570HA
IC221 : NJM4560S
Dual Ope-amp



■ BLOCK DIAGRAM



■ DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

Remove 5 screws (①) in Fig. 1, and slide the TOP Cover back.

2. Removal of Front Panel

Remove 6 screws (②) in Fig. 1, and pull the Front Panel forward.

3. Removal of Bottom Cover

Remove 4 screws (③) in Fig. 1.

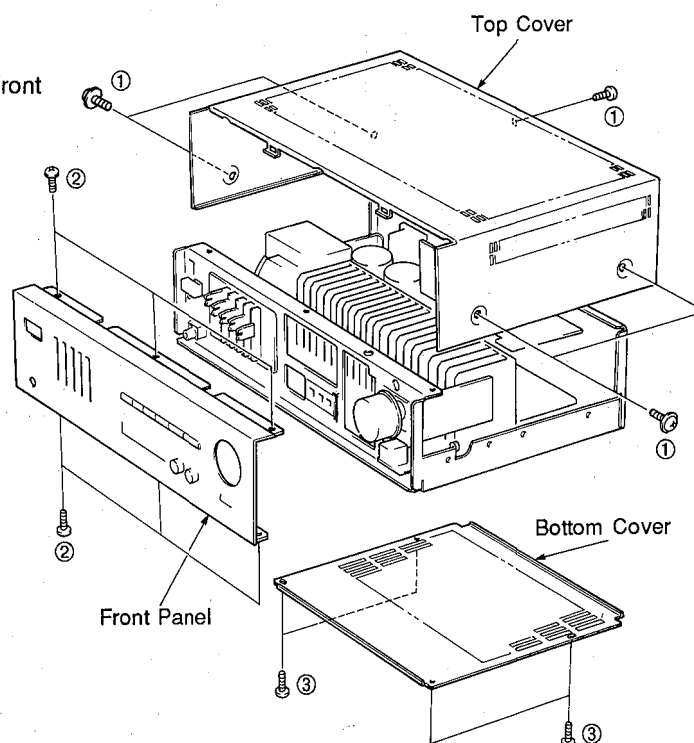


Fig. 1

1

2

3

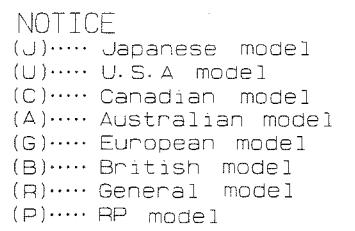
4

5

6

7

8



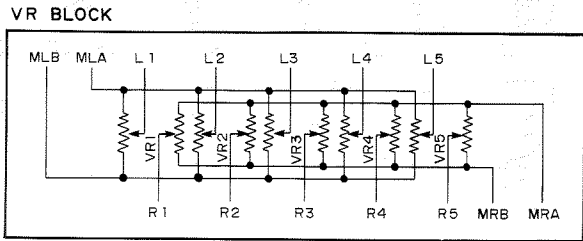
RESISTOR		
REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR	(1/6W)
☒	CARBON FILM RESISTOR	(1/4W)
☐	METAL OXIDE FILM RESISTOR	
☐	METAL FILM RESISTOR	
☐	METAL PLATE RESISTOR	
☒	FIRE PROOF CARBON FILM RESISTOR	
☐	CEMENT MOLDED RESISTOR	
☒	SEMI VARIABLE RESISTOR	
☐	CHIP RESISTOR	

	LAST NO.	UN LISTED NO.
C	57	
R	106	
G	10	
D	23	
IC	11	
SW	7	

2SA1015(Y) 2SA1970(R, B, L) 2SA1970(D, F, J) 2SC1815Y 2SC1740S(S, R) 2SC2833(E, F) 2SC3311(A, Q, R, S) 2SC2240(GR, BL) 2SC2878(A, B)	2SC2925T DTC144E(S, Q, R) DTA114ES	μPC2415HF AN78M09F 1: INPUT 2: COMMON 3: OUTPUT	AN79M15F AN79M09F 1: INPUT 2: INPUT 3: OUTPUT	2SA1358 2SC3421 1: INPUT 2: INPUT 3: OUTPUT	2SB1347 2SC2029	4DxB41 2B4B41	1SS133 MA185 MTJZJ5.6A MTJZJ5.6B	M5218AL BA15218N	μPC4570HA NJM4556S BA8144 NJM4560S	BA6229	LC4066B BU4066B	M5226P LB1294	LC6505C-4277
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16

AV-65 SCHEMATIC DIAGRAM



Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
#1	0223	2S C17405(S;R) 2S C2603(E;F) 2S C3311A(G;R;S)

NOTICE

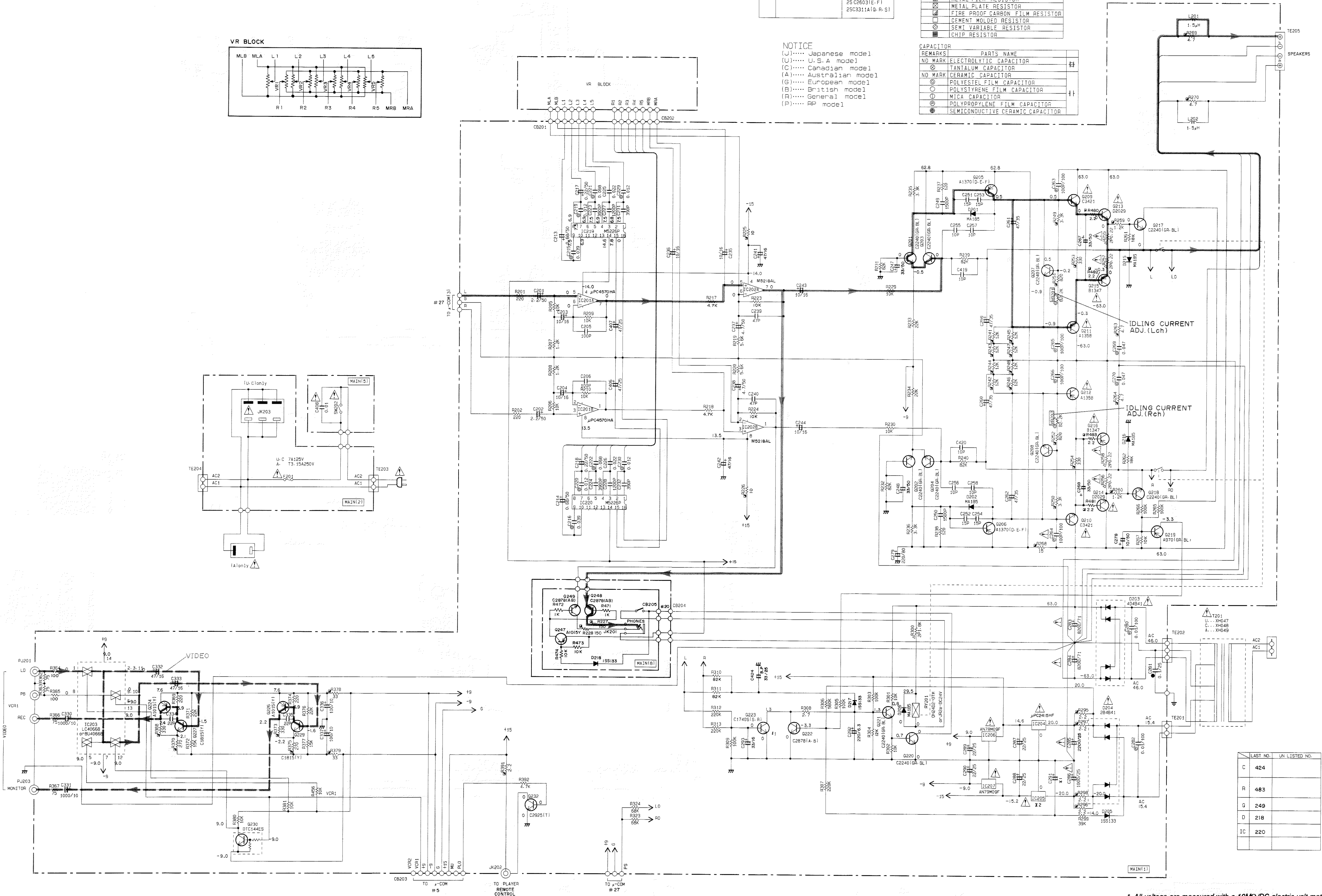
(U)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(R)..... General model
(P)..... RP model

RESISTOR

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

CAPACITOR

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

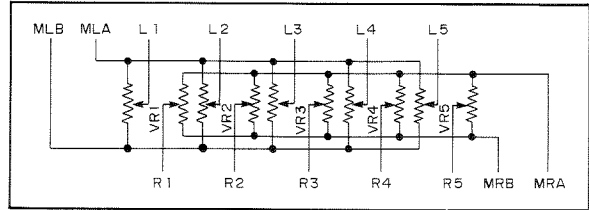


* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ AV-66YST SCHEMATIC DIAGRAM

1
2
3
4
5
6
7
8

VR BLOCK



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

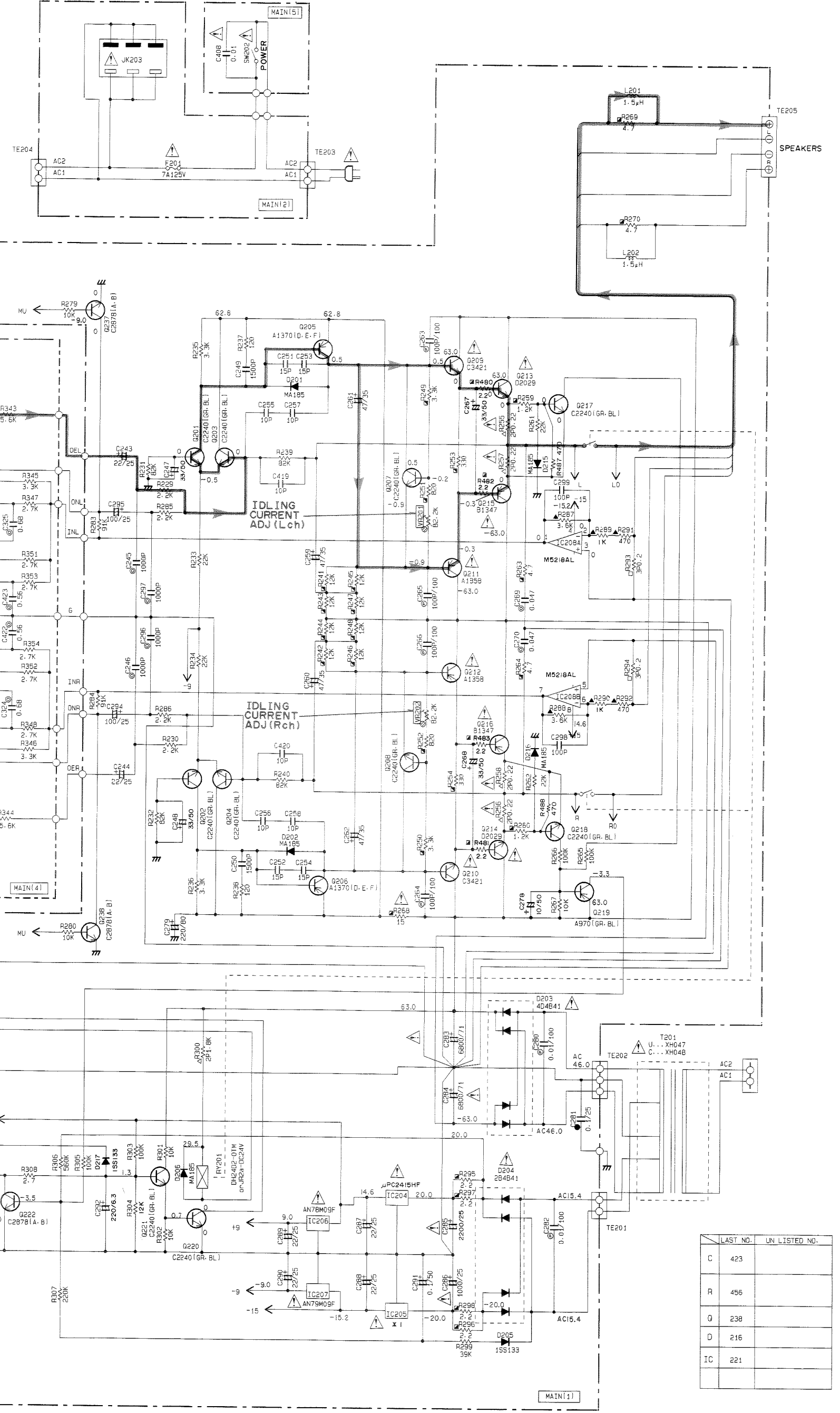
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
■	METAL PLATE RESISTOR
□	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
□	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
F1	Q223	2SC1740S(S:R) 2SC2803(E:F) 2SC3311(A:G:R:S)

CAPACITOR

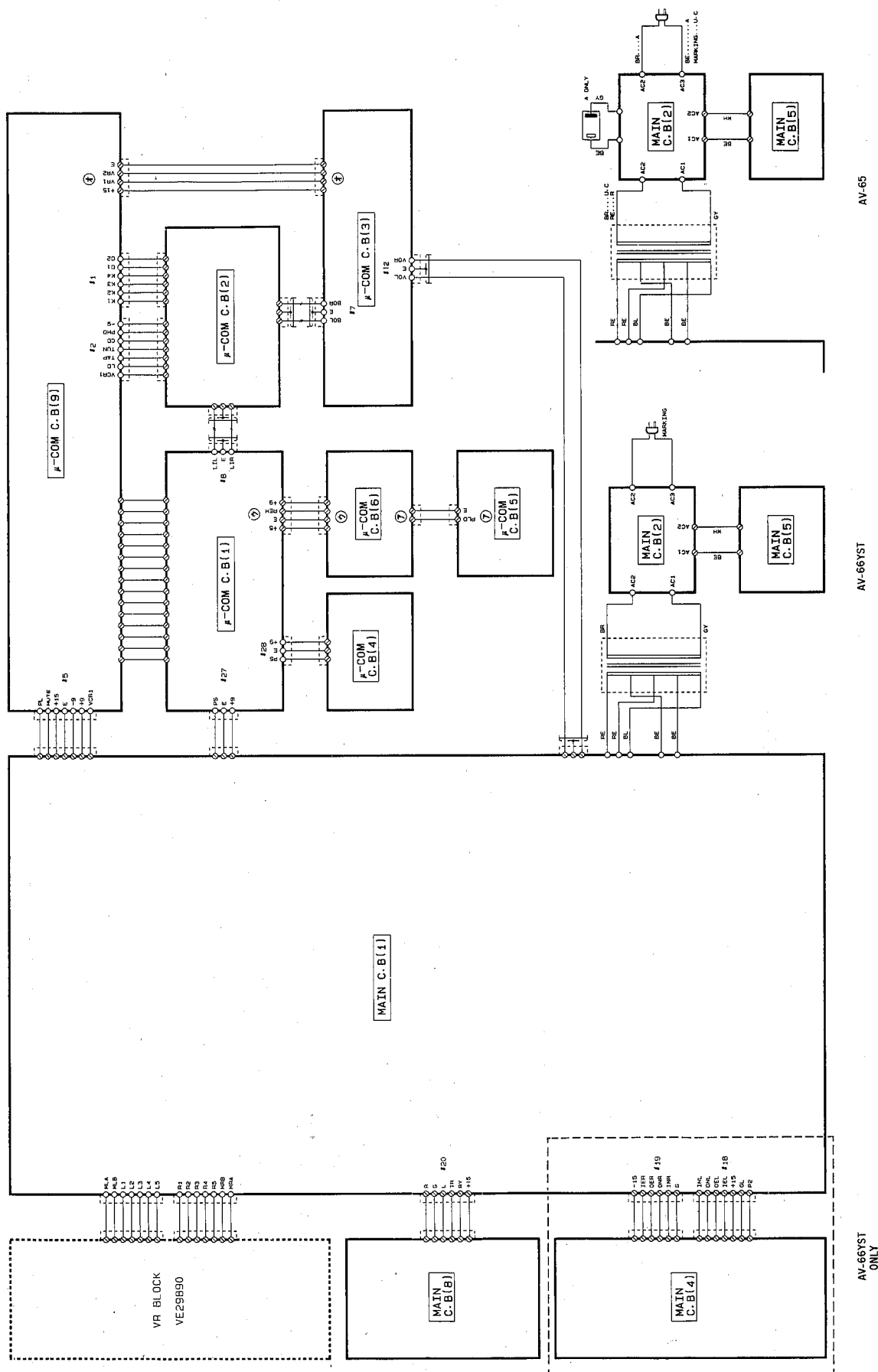
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
○	TANTALUM CAPACITOR
○	NO MARK CERAMIC CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
○	SEMICONDUCTIVE CERAMIC CAPACITOR



LAST NO.	UN LISTED NO.
C	423
R	455
Q	238
D	216
IC	221

* All voltage are measured with a 10MS/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.

■ INTERCONNECT WIRING DIAGRAM



AV-65

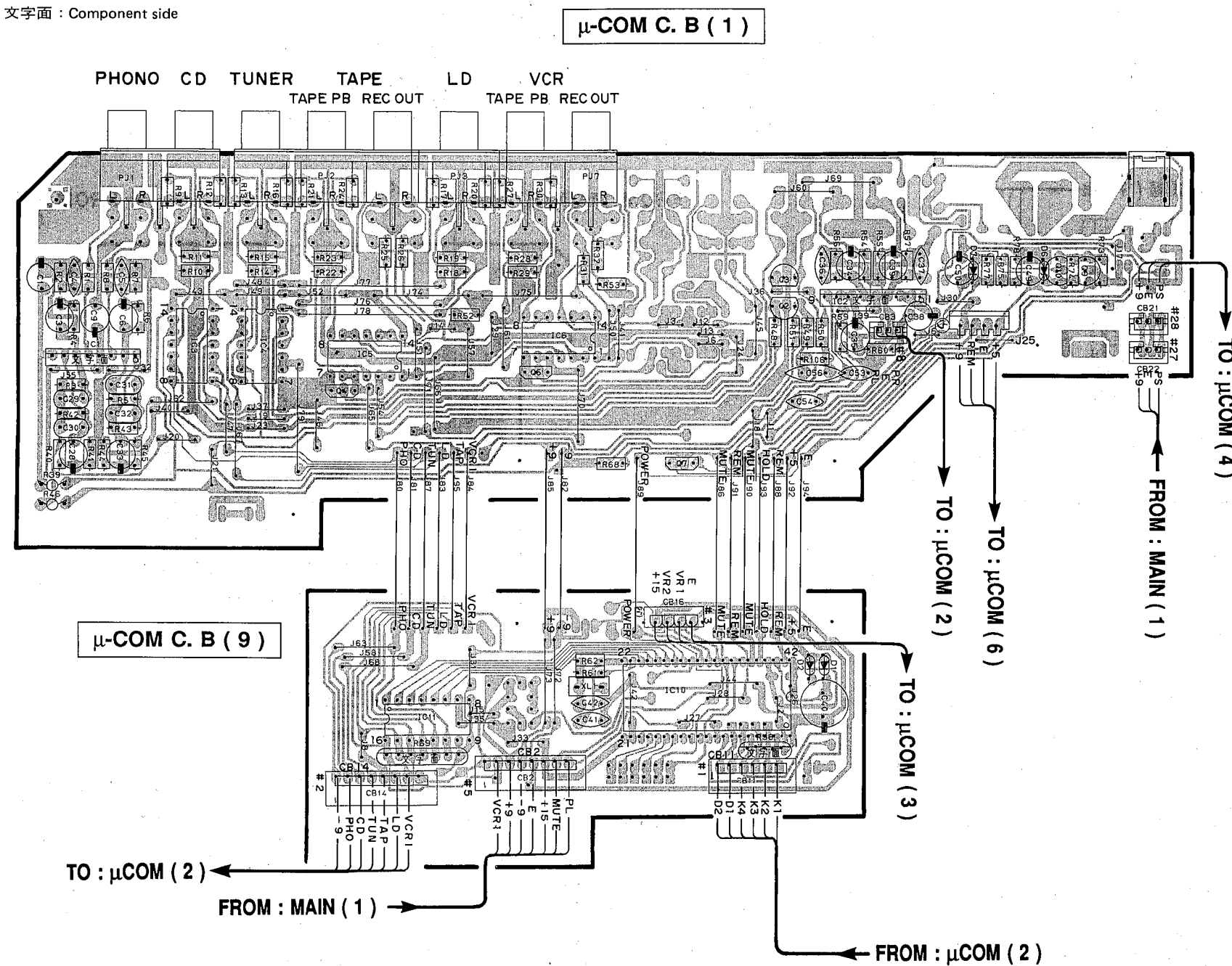
AV-66YST

AV-66YST
ONLY

AV-65/66YST

PRINTED CIRCUIT BOARD (Foil side)

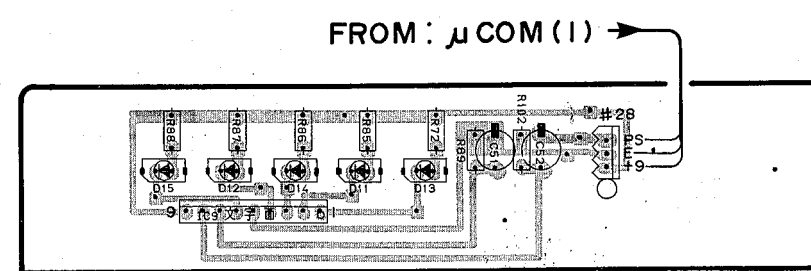
Note) 文字面 : Component side



μ-COM C. B (9)

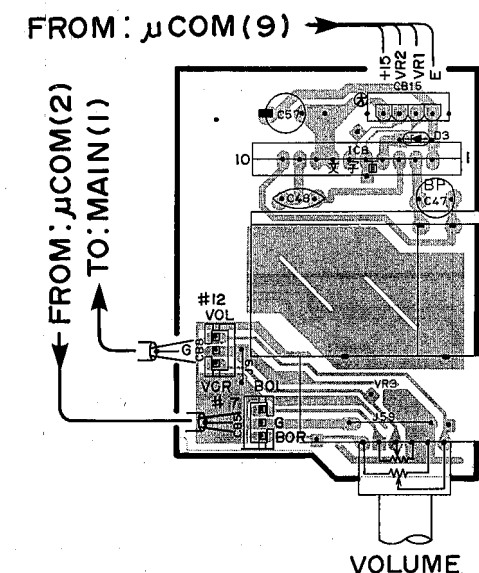
μ-COM C. B (4)

μ-COM C. B (5)

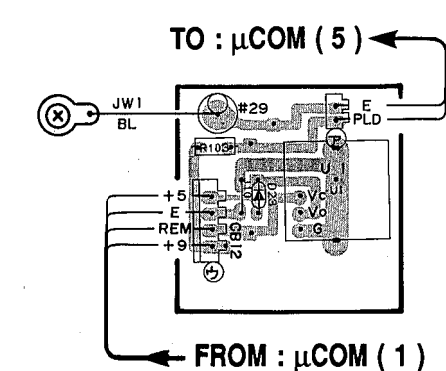


100 · 20 · 0.2 · 0.4 · 0.1 OUTPUT LEVEL

μ-COM C. B (3)



μ-COM C. B (6)



1

2



A

B

C

D

E

F

G

H

AV-65/66YST

■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

AV-65 MAIN C. B (1)

REMOTE CONTROL
PHONOVIDEO SIGNAL
LD IN OUT

MONITER OUT

SPEAKERS

FROM : POWER TRANSFORMER

TO : MAIN (8)

FROM : POWER TRNSFORMER

TO : VR BLOCK

FROM : μ COM (3)TO : μ COM (9)TO : μ COM (1)

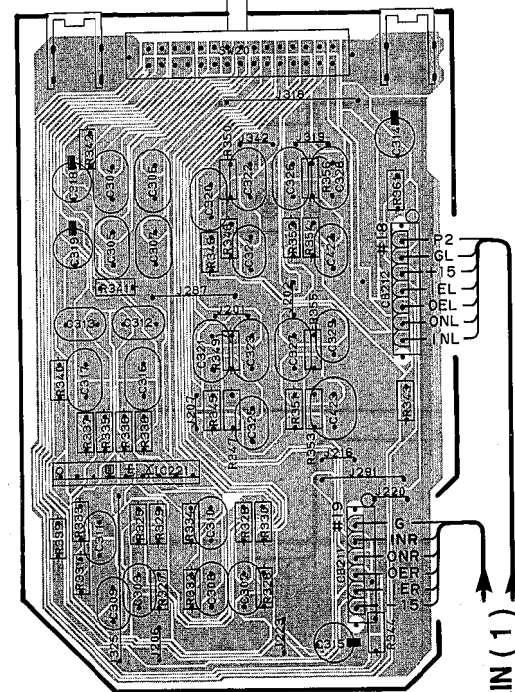
■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

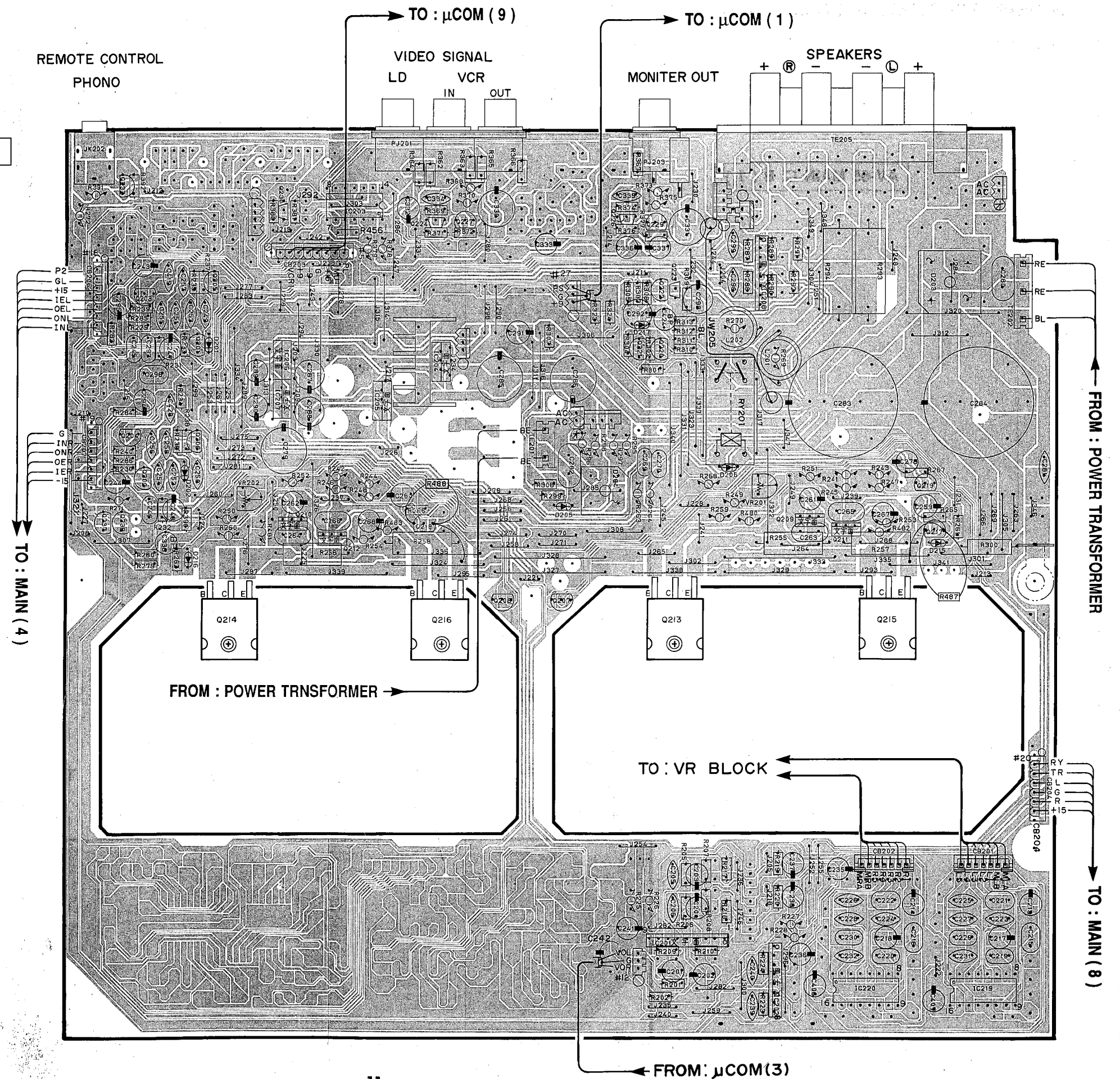
AV-66YST MAIN C. B (1)

AV-66YST MAIN C. B (4)

— YST SELECTOR —
 • CONVENTIONAL
 • YST-1
 • YST-2



FROM : MAIN (1)



PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

Components having special characteristics are marked $\triangle$ 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. 31.

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	リンク
*	V1627000	MAIN CIRCUIT BOARD	AV-66YST	メインシート		
*	V1627100	MAIN CIRCUIT BOARD	AV-66YST	メインシート	U C	
	FA153100	MYLAR FILM CAP	1000pF 50V	マイラーコン	C245, 246, 296, 297	
	FA154120	MYLAR FILM CAP	0.012uF 50V	マイラーコン	C219, 220, 229, 230	
	FA154390	MYLAR FILM CAP	0.039uF 50V	マイラーコン	C215, 216	
	FA154470	MYLAR FILM CAP	0.047uF 50V	マイラーコン	C269, 270	
	FA154680	MYLAR FILM CAP	0.068uF 50V	マイラーコン	C221, 222, 308-311	
	FA154820	MYLAR FILM CAP	0.082uF 50V	マイラーコン	C302, 303	
	FA155120	MYLAR FILM CAP	0.12uF 50V	マイラーコン	C312, 313	
	FA155150	MYLAR FILM CAP	0.15uF 50V	マイラーコン	C320, 321, 326, 327	
	FA155270	MYLAR FILM CAP	0.27uF 50V	マイラーコン	C322, 323, 304, 305	
	FA155330	MYLAR FILM CAP	0.33uF 50V	マイラーコン	C328, 329, 306, 307	
	FA155560	MYLAR FILM CAP	0.55uF 50V	マイラーコン	C316, 317, 422, 423	
	FA155680	MYLAR FILM CAP	0.68uF 50V	マイラーコン	C324, 325	
	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	PPコン	C263-266	
	UT454100	POLYPROPYLENE FILM CAP	0.01uF 100V	PPコン	C280, 282	
	FG211100	CERAMIC CAP	10pF 50V	セラコン	C255-258, 419, 420	
	FG211150	CERAMIC CAP	15pF 50V	セラコン	C251-254	
	FG211220	CERAMIC CAP	22pF 50V	セラコン	C334, 335	
	FG211470	CERAMIC CAP	47pF 50V	セラコン	C239, 240	
	FG212100	CERAMIC CAP	100pF 50V	セラコン	C205, 206, 298, 299	
	FG212390	CERAMIC CAP	390pF 50V	セラコン	C231, 232	
	FG713120	CERAMIC CAP	1200pF 50V	セラコン	C227, 228	
	FG213150	CERAMIC CAP	1500pF 50V	セラコン	C249, 250	
	FG713390	CERAMIC CAP	3900pF 50V	セラコン	C223, 224	
	FG244220	CERAMIC CAP	0.022uF 50V	セラコン	C225, 226	
	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, 235, 236, 314, 315	
	UH237330	ELECTROLYTIC CAP	33uF 16V	ケミコン	C293	
	UH237470	ELECTROLYTIC CAP	47uF 16V	ケミコン	C332, 333, 241, 242	
	UH129100	ELECTROLYTIC CAP	1000uF 10V	ケミコン	C330, 331	
	UH147220	ELECTROLYTIC CAP	22uF 25V	ケミコン	C243, 244, 287-290	
	UH147470	ELECTROLYTIC CAP	47uF 25V	ケミコン	C406, 407	
	UH148100	ELECTROLYTIC CAP	100uF 25V	ケミコン	C294, 295	
	UH157470	ELECTROLYTIC CAP	47uF 35V	ケミコン	C259-262	
	UH265100	ELECTROLYTIC CAP	0.1uF 50V	ケミコン	C291	
	UH265220	ELECTROLYTIC CAP	0.22uF 50V	ケミコン	C217, 218	
	UH065680	ELECTROLYTIC CAP	0.68uF 50V	ケミコン	C213, 214	
	UH166100	ELECTROLYTIC CAP	1uF 50V	ケミコン	C318, 319	
	UH166220	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C201, 202	
	UH166470	ELECTROLYTIC CAP	4.7uF 50V	ケミコン	C237, 238	
	U1367100	ELECTROLYTIC CAP	10uF 50V	ケミコン	C278	
	UH888220	ELECTROLYTIC CAP	220uF 80V	ケミコン	C279	
	UJ149100	ELECTROLYTIC CAP	1000uF 25V	ケミコン	C286	$\triangle$
	UJ149220	ELECTROLYTIC CAP	2200uF 25V	ケミコン	C285	$\triangle$
	V1660600	ELECTROLYTIC CAP	6800uF 71V	ケミコン	C283, 284	$\triangle$
	UK137100	ELECTROLYTIC CAP	10uF 16V	B P ケミコン	C338	
	UK347400	ELECTROLYTIC CAP	33uF 25V	B P ケミコン	C424	

*New Parts (新規部品)

リンク : Japan only

● AV-66YST

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VG291100	ELECTROLYTIC CAP	33uF 50V	ケミコン	C247,248,267,268	
	Fi514100	CERAMIC CAP	0.01uF VA-1 U.C.S	スパークキラーコン	C408	△
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V	半導体セラコン	C281	
	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	R295-298,391,480-483	
	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	R271,272,225,226	
	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	
	HV455150	FLAME PROOF CARBON RESISTOR	150Ω 1/4W	不燃化カーボン抵抗	R227,228	
	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	
	VH004800	METAL FILM RESISTOR	1KΩ 1/4W	金属皮膜抵抗	R289,290	
	VH004000	METAL FILM RESISTOR	470Ω 1/4W	金属皮膜抵抗	R291,292	
	HU576360	METAL FILM RESISTOR	3.6KΩ 1/4W	金属皮膜抵抗	R287,288	
	HL322220	METAL OXIDE RESISTOR	0.22Ω 2W	酸化金属被膜抵抗	R255-258	△
*	VJ002700	METAL FILM RESISTOR	1.8KΩ 2W	金属皮膜抵抗	R300	
*	V1470300	WIRE WOUND RESISTOR	0.2Ω 3W	セメント抵抗	R293,294	△
*	XH503A00	IC	UPC2415HF	I C	IC204	△
*	XH767A00	IC	UPD79M15F	I C	IC205	△
	XB467001	IC	AN79M15F	I C	IC205	△
	XH471A00	IC	M5218AL	I C	IC202,208	
	XB247301	IC	UPC4570HA	I C	IC201	
	IG151400	IC	M5226P	I C	IC219,220	
	IG121800	IC	NJM4560S	I C	IC221	
	XF635A00	IC	AN78M09F	I C	IC206	△
	XF637A00	IC	AN79M09F	I C	IC207	△
	XD148001	IC	BU4066B	I C	IC203	
	V1661500	PUSH SWITCH	SDDLBI U.C.S	プッシュSW	SW202	△
	V1283000	SLIDE SWITCH	SSSF16	スライドSW	SW201	
	KC001940	RELAY	DC DH24D2-OT(M)	リレー	RY201	
	KB001520	FUSE	7A 125V	ヒューズ	F201	△
	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	
	VG741000	SPEAKER TERMINAL	T5966	スピーカターミナル	TE205	
	V1683800	PIN JACK	T6312-CAAD	ピンジャック	PJ203	
	V1683900	PIN JACK	T6125-BAAE	ピンジャック	PJ201	
	V1661600	PHONES JACK	M1658-A0AA	ヘッドホンジャック	JK201	
	VE116900	PHONES JACK	EX362GL	ホーンコネクタ	JK202	
	V1327500	AC OUTLET		ACアウトレット	JK203	△
	VD005000	BASE PIN	7P TE	ベースピン	CB201,202	
	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	

*New Parts (新規部品)

ランク : Japan only

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● AV-65

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
+	V1624900	MAIN CIRCUIT BOARD	AV-65	メインシート	U	
+	V1625000	MAIN CIRCUIT BOARD	AV-65	メインシート	C	
+	V1625100	MAIN CIRCUIT BOARD	AV-65	メインシート	A	
	FA154120	MYLAR FILM CAP	0.012uF 50V	マイラーコン	C219, 220, 229, 230	
	FA154390	MYLAR FILM CAP	0.039uF 50V	マイラーコン	C215, 216	
	FA154470	MYLAR FILM CAP	0.047uF 50V	マイラーコン	C269, 270	
	FA154680	MYLAR FILM CAP	0.068uF 50V	マイラーコン	C221, 222	
	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	PPコン	C263-266	
	UT454100	POLYPROPYLENE FILM CAP	0.01uF 100V	PPコン	C280, 282	
	FG211100	CERAMIC CAP	10pF 50V	セラコン	C255-258, 419, 420	
	FG211150	CERAMIC CAP	15pF 50V	セラコン	C251-254	
	FG211220	CERAMIC CAP	22pF 50V	セラコン	C334, 335	
	FG211470	CERAMIC CAP	47pF 50V	セラコン	C239, 240	
	FG212100	CERAMIC CAP	100pF 50V	セラコン	C205, 206	
	FG212390	CERAMIC CAP	390pF 50V	セラコン	C231, 232	
	FG213150	CERAMIC CAP	1200pF 50V	セラコン	C227, 228	
	FG213150	CERAMIC CAP	1500pF 50V	セラコン	C249, 250	
	FG713390	CERAMIC CAP	3900pF 50V	セラコン	C223, 224	
	FG244220	CERAMIC CAP	0.022uF 50V	セラコン	C225, 226	
	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, 235, 236, 243, 244	
	UH237330	ELECTROLYTIC CAP	33uF 16V	ケミコン	C293	
	UH237470	ELECTROLYTIC CAP	47uF 16V	ケミコン	C332, 333, 241, 242	
	UH129100	ELECTROLYTIC CAP	1000uF 10V	ケミコン	C330, 331	
	UH147220	ELECTROLYTIC CAP	22uF 25V	ケミコン	C287-290	
	UH147470	ELECTROLYTIC CAP	47uF 25V	ケミコン	C406, 407	
	UH157470	ELECTROLYTIC CAP	47uF 35V	ケミコン	C259-262	
	U1365100	ELECTROLYTIC CAP	0.1uF 50V	ケミコン	C291	U, C
	U1365220	ELECTROLYTIC CAP	0.22uF 50V	ケミコン	C291	A
	UH265220	ELECTROLYTIC CAP	0.22uF 50V	ケミコン	C217, 218	
	UH065680	ELECTROLYTIC CAP	0.68uF 50V	ケミコン	C213, 214	
	U1367100	ELECTROLYTIC CAP	10uF 50V	ケミコン	C278	
	UH168220	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C201, 202	
	UH166470	ELECTROLYTIC CAP	4.7uF 50V	ケミコン	C237, 238	
	UH888220	ELECTROLYTIC CAP	220uF 80V	ケミコン	C279	
	UJ149100	ELECTROLYTIC CAP	1000uF 25V	ケミコン	C286	△
	UJ149220	ELECTROLYTIC CAP	2200uF 25V	ケミコン	C285	△
	V1660900	ELECTROLYTIC CAP	8200uF 71V	ケミコン	C283, 284	△
+	VG291100	ELECTROLYTIC CAP	33uF 50V	ケミコン	C247, 248, 267, 268	
	VH357400	ELECTROLYTIC CAP	33uF 25V	BPケミコン	C424	
	Fi514100	CERAMIC CAP	0.01uF VA-1 U.C.S	スパークキラーコン	C408	△
	VD930900	SEMI-CONDUCTIVE CERAMIC CAP	0.1uF 25V	半導体セラコン	C281	
	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	R295-298, 391, 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	R225, 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	

*New Parts (新規部品)

ランク : Japan only

● AV-65

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	HV455150	FLAME PROOF CARBON RESISTOR	150Ω 1/4W	不燃化カーボン抵抗	R227, 228	
	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	△
	VJ002700	METAL FILM RESISTOR	1.8KΩ 2W	金属皮膜抵抗	R300	
	XH503A00	IC	UPC2415HF	IC	IC204	△
	XH767A00	IC	UPD79M15F	IC	IC205	△
	XB467001	IC	AN79M15F	IC	IC205	△
	XF637A00	IC	AN79M09F	IC	IC207	△
	XF635A00	IC	AN78M09F	IC	IC206	△
	XH471A00	IC	M5218AL	IC	IC202	△
	XB247001	IC	UPC4570HA	IC	IC201	
	iG151400	IC	M5226P	IC	IC219, 220	
	XD148001	IC	BU4066B	IC	IC203	
	Vi661500	PUSH SWITCH	SDDLBI U.C.S	プッシュSW	SW202	△
	KC001940	RELAY	DC DH24D2-OT(M)	リレー	RY201	
	KB001520	FUSE	7A 125V	ヒューズ	F201	U, C
	KB000760	FUSE	T3.15A 250V	ヒューズ	F201	A
	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	
	VG741000	SPEAKER TERMINAL	T5966	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-A0AA	ヘッドホンジャック	JK201	
	VE116900	PHONES JACK	EX362GL	ホーンコネクタ	JK202	
	Vi327500	AC OUTLET		AC アウトレット	JK203	U, C
	VD005000	BASE PIN	7P	ベースピン	CB201, 202	
	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	
	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, 218, 220, 221	
	iC287820	TRANSISTOR	2SC2878 A, B	トランジスタ	Q222, 248, 249	
	VE919600	TRANSISTOR	2SC2925 T	トランジスタ	Q232	
	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	
	iF004600	DIODE	1SS133 T-77	ダイオード	D205, 217, 218	
	VC398400	DIODE	MA185	ダイオード	D201, 202, 206, 215, 216	
	iH001160	DIODE BRIDGE	4D4B41 4A 200V	DI スタック	D203	△
	iH000990	DIODE BRIDGE	2B4B41 2A 100V	ダイオードスタック	D204	△
	LB201880	FUSE HOLDER	PC-FH1	ヒューズホルダ		

*New Parts (新規部品)

ランク : Japan only

● **AV-65/66YST**

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ラング
	BA092970	RADIATOR		放熱器			
	BB066290	WASHER, GROUND		アースワッシャー			
	VF453200	RADIATOR		ラジエータ		C	
	ED330088	BINDING HEAD SCREW	3x8	FCM3-BL	バインド小ネジ		
	EZ001350	CUP SCREW	3x14	FCRM3-BL	カップネジ	C	
	Vi625600	μ-COM CIRCUIT BOARD	AV65/66YST	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	
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C48	
	FG244470	CERAMIC CAP	0.047uF	50V	セラコン	C56	
	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	
	UH237330	ELECTROLYTIC CAP	33uF	16V	ケミコン	C49	
	UH138470	ELECTROLYTIC CAP	470uF	16V	ケミコン	C57	
	UH166100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C50	
	UH166470	ELECTROLYTIC CAP	4.7uF	50V	ケミコン	C28,33-35,38,39	
	UM397220	ELECTROLYTIC CAP	22uF	16V	ケミコン	C52	
	UM416470	ELECTROLYTIC CAP	4.7uF	50V	ケミコン	C51	
	UK166100	ELECTROLYTIC CAP	1uF	50V	B P ケミコン	C47	
	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	100KΩ X4		抵抗アレイ	R58	
	Vi660200	RESISTOR ARRAY	100KΩ X6		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	
	XA552001	IC	BA6144		I C	IC9	
	iG152500	IC	BA6229		I C	IC8	
	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			プッシュ SW	SW2-7	
	LB401050	PIN JACK	T5859-A		ピンコネクタ	PJ1	
	LB401040	PIN JACK	T5858-A		ピンコネクタ	PJ7	
	LB606090	PIN JACK	T5916-A		ピンコネクタ	PJ2	
	LB202270	PIN JACK	T5854-A		ピンコネクタ	PJ3	
	VD004600	BASE PIN	3P		ベースピン	CB3,5,8,21,22	
	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	
	Vi660400	POTENTIOMETER	Y100KΩ		二連ロータリーVR	VR3	

※New Parts (新規部品)

ランク : Japan only

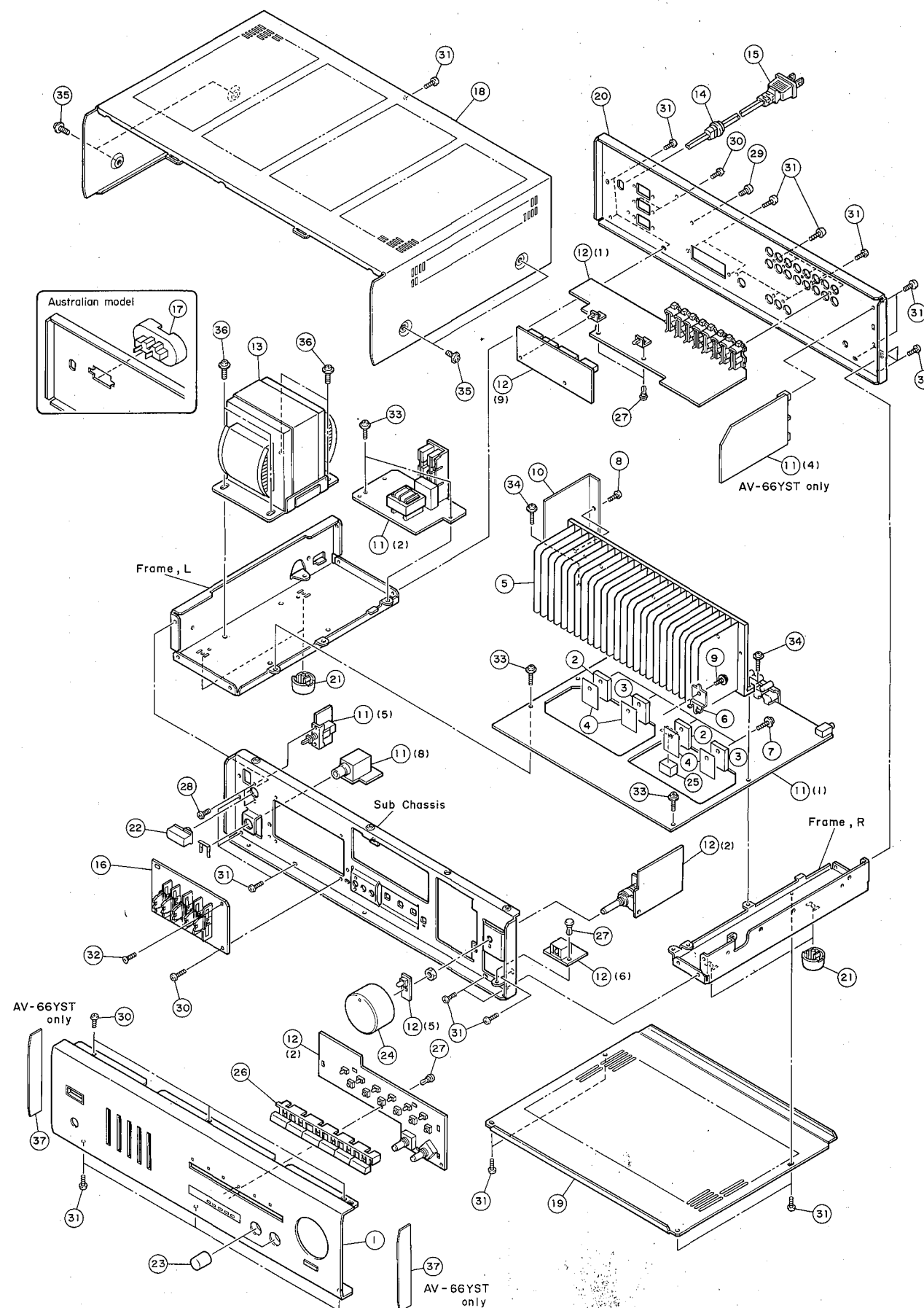
● **AV-65/66YST**

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※New Parts (新規部品)

ランク : Japan only

■ AV-65/66YST EXPLODED VIEW



■ AV-65/66YST MECHANISM PARTS Note) Ø : Diameter

Ref. NO.	PART NO.	Description	部品名	Remarks	Markets	ラング
* 01	Vi626800	PANEL UNIT	AV-66YST	パネルユニット	BL	
* 01	Vi626900	PANEL UNIT	AV-66YST	パネルユニット	T	
* 01	Vi624600	PANEL UNIT	AV-65	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	Vi235500	RADIATOR		ラジエータ		
06	VF545900	SUPPORT		サポート		
07	EZ001350	CUP SCREW	3x14 FCM3-BL	カップネジ		
08	Ei330086	BIND TAPPING SCREW	3x8 FCM3-BL	バインドタッピングネジ		
09	EK336010	BW HEAD TAPPING SCREW	3x8 FCM3	BWヘッドタッピングネジ		
* 10	Vi632700	SHIELD PLATE		シールドプレート		
* 11	Vi627000	MAIN CIRCUIT BOARD	AV-66YST	メインシート		U
* 11	Vi627100	MAIN CIRCUIT BOARD	AV-66YST	メインシート		C
* 11	Vi624900	MAIN CIRCUIT BOARD	AV-65	メインシート		U
* 11	Vi625000	MAIN CIRCUIT BOARD	AV-65	メインシート		C
* 11	Vi625100	MAIN CIRCUIT BOARD	AV-65	メインシート		A
* 12	Vi625600	μ-COM CIRCUIT BOARD		マイコンシート		
* 13	XH047A00	POWER TRANSFORMER		電源トランス		U
* 13	XH048A00	POWER TRANSFORMER		電源トランス		C
* 13	XH049A00	POWER TRANSFORMER		電源トランス		A
14	CB620200	CORD STOPPER	CM-22C	コードストッパー		U,C
14	CB620190	CORD STOPPER	CM-22B	コードストッパー		A
15	MG002220	POWER CORD	10A	電源コード		U,C
15	MG002310	POWER CORD	7.5A	電源コード		A
16	VE298900	SLIDE POTENTIOMETER BLOCK	B250KΩ	スライドVRブロック	BL	
16	Vi654100	SLIDE POTENTIOMETER BLOCK	B250KΩ	スライドVRブロック	T	
17	VC826100	AC OUTLET	AV-65	電源コネクタ		A
18	Vi207600	TOP COVER		トップカバー	BL	
18	Vi207500	TOP COVER		トップカバー	T	
19	Vi209900	BOTTOM COVER		ボトムカバー		
* 20	Vi208900	REAR PANEL	AV-66YST	リヤパネル		U
* 20	Vi209000	REAR PANEL	AV-66YST	リヤパネル		C
* 20	Vi209200	REAR PANEL	AV-65	リヤパネル		U
* 20	Vi209300	REAR PANEL	AV-65	リヤパネル		C
* 20	Vi209400	REAR PANEL	AV-65	リヤパネル		A
21	CB610390	LEG	TL-067	トランレッグ		
22	VH841900	BUTTON	10/25	ボタン	BL	
22	VH842000	BUTTON	10/25	ボタン	T	
23	Vi211300	KNOB		ノブ	BL	
23	Vi211200	KNOB		ノブ	T	
24	Vi051200	KNOB	D45	ノブ	BL	
24	Vi051300	KNOB	D14	ノブ	T	
25	VF201500	DAMPER	10x10x20	ダンパー		
26	Vi210900	BUTTON	6P	ボタン	BL	
* 26	Vi210800	BUTTON	6P	ボタン	T	
27	CB068880	PLASTIC RIVET	#1027	ブラリベット		
28	ED330066	BIND HEAD SCREW	3x6 FCM3-BL	バインド小ネジ		
29	ED330066	BIND HEAD SCREW	3x6 FCM3-BL	バインド小ネジ		
29	EV413036	TOOTHED LOCK WASHER	3MM	歯付座金		

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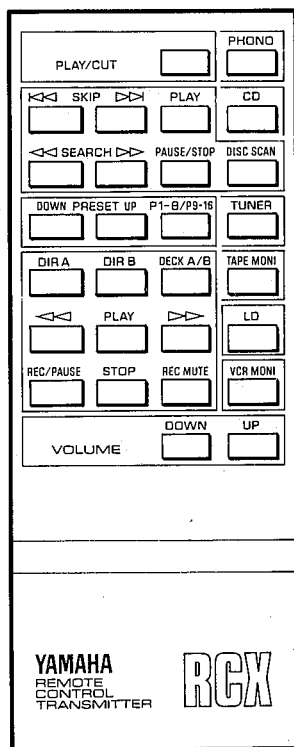
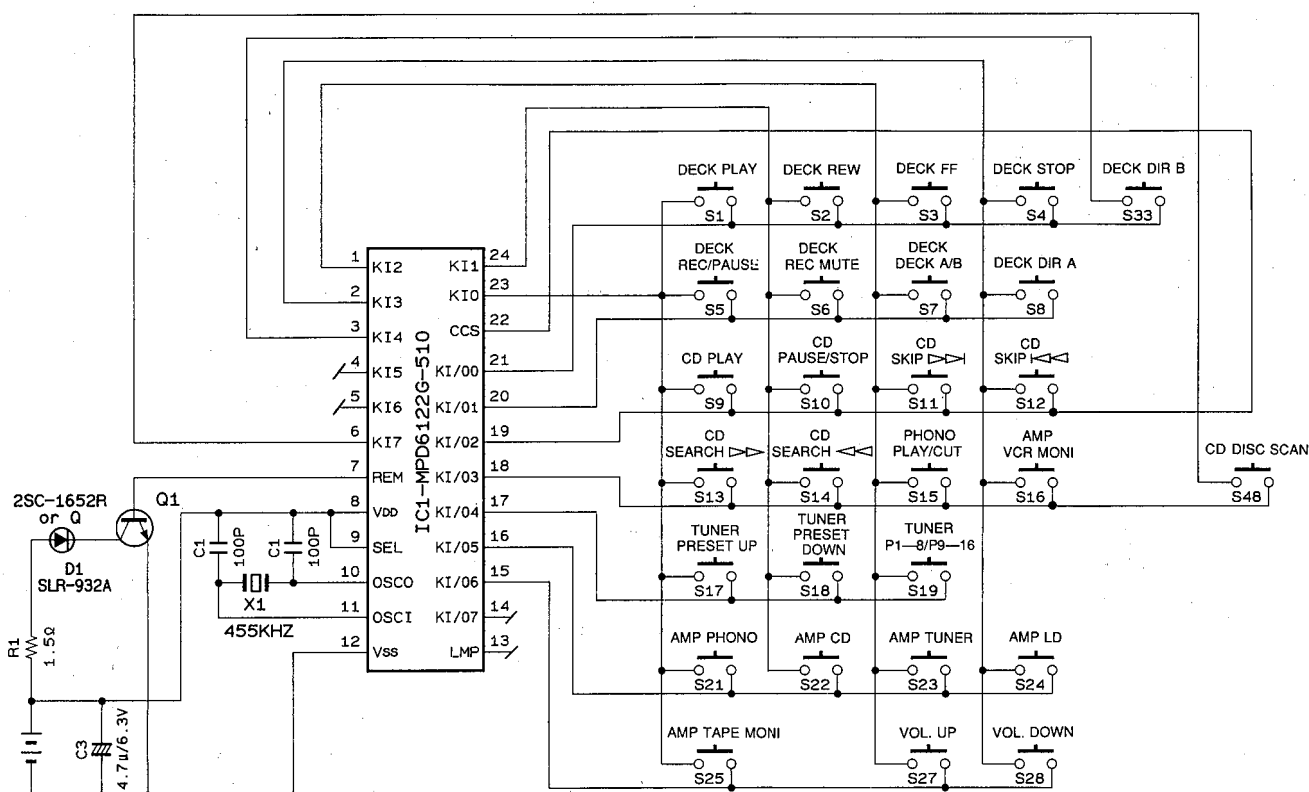
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ランク : Japan only

A
AV-65/66YST

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 A/B
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	PHONO 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-B/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
33	0	0	0	0	0	0	1	0	DECK DIR B
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 K Ω	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 K Ω	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF85 3220	18 K Ω	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF85 3330	22 K Ω	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF85 3470	27 K Ω	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF85 3560	33 K Ω	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF85 4100	39 K Ω	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF85 4150	47 K Ω	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF85 4220	56 K Ω	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF85 4270	68 K Ω	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF85 4330	82 K Ω	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF85 4390	91 K Ω	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF85 4470	100 K Ω	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF85 4560	120 K Ω	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF85 4680	150 K Ω	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF85 4820	180 K Ω	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF85 5100	220 K Ω	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF85 5110	270 K Ω	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF85 5120	330 K Ω	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF85 5150	390 K Ω	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 K Ω	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF85 5180	560 K Ω	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF85 5220	680 K Ω	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF85 5270	820 K Ω	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF85 5330	1.0 M Ω	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF85 5390	1.2 M Ω	HJ35 9120	*
470 Ω	HJ35 5470	HF85 5470	1.5 M Ω	HJ35 9150	HF85 9150
510 Ω	*	HF85 5510	1.8 M Ω	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF85 5560	2.2 M Ω	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF85 5680	3.3 M Ω	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF85 5820	3.9 M Ω	HJ35 9390	*
910 Ω	HJ35 5910	HF85 5910	4.7 M Ω	HJ35 9470	HF85 9470
1.0 K Ω	HJ35 6100	HF85 6100			
1.2 K Ω	HJ35 6120	HF85 6120			
1.5 K Ω	HJ35 6150	HF85 6150			
1.8 K Ω	HJ35 6180	HF85 6180			
2.0 K Ω	HJ35 6200	HF85 6200			
2.2 K Ω	HJ35 6220	HF85 6220			
2.4 K Ω	HJ35 6240	HF85 6240			
2.7 K Ω	HJ35 6270	HF85 6270			
3.0 K Ω	HJ35 6300	HF85 6300			
3.3 K Ω	HJ35 6330	HF85 6330			
3.6 K Ω	HJ35 6360	HF85 6360			
3.9 K Ω	HJ35 6390	HF85 6390			
4.7 K Ω	HJ35 6470	HF85 6470			
5.1 K Ω	HJ35 6510	HF85 6510			
5.6 K Ω	HJ35 6560	HF85 6560			
6.8 K Ω	HJ35 6680	HF85 6680			
8.2 K Ω	HJ35 6820	HF85 6820			
9.1 K Ω	HJ35 6910	HF85 6910			
10 K Ω	HJ35 7100	HF85 7100			

1/4W Type

HJ35 ○○○○

10mm

1/6W Type

HF85 ○○○○

5mm

AV-65/66YST

YAMAHA

AV-65/66YST
