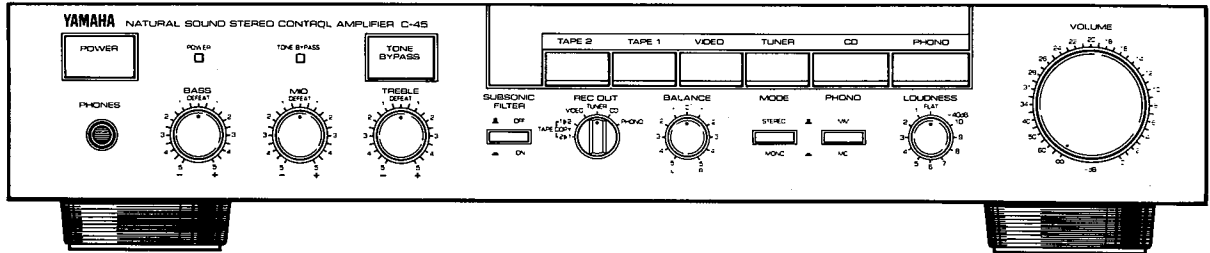


STEREO CONTROL AMPLIFIER

C-45

SERVICE MANUAL

■ FRONT PANEL



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, 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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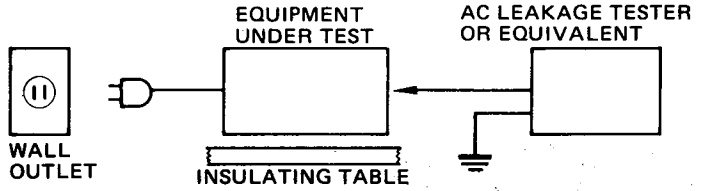


YAMAHA

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN
2.86K-273 印 ㊞ Printed in Japan '86.4

■ TO SERVICE PERSONNEL

1. **Critical Components Information.**
Components having special characteristics are marked Δ 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.



■ SPECIFICATIONS

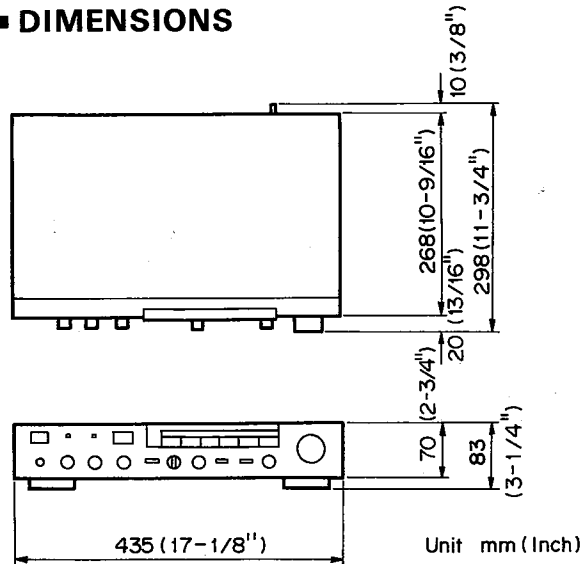
Input Sensitivity/Impedance	
Phono MC	100 μ V/100 Ω
MM	2.5mV/47k Ω
CD/AUX/TAPE/TUNER	150mV/47k Ω
Input Sensitivity (New IHF)	
Phono MC	33 μ V
MM	0.83mV
CD/AUX/TAPE/TUNER	50mV
Maximum-Input Signal	
Phono MC 1kHz 0.03% THD	7mV
MM 0.01% THD	170mV
Output Level/Impedance	
Rec Out	150mV/330 Ω (R.U.C.A.) 150mV/770 Ω (G.B.)
Pre Out	1.5V/47 Ω
Maximum Voltage Output	
20Hz~20kHz 0.1% THD	
Pre Out	11V
Headphone Jack Rated Output/Output Impedance	
0.1% THD RL = 150 Ω	4.2V/82 Ω
Frequency Response (Tone Bypass ON)	
CD/AUX/TAPE/TUNER 20Hz~20kHz	+0, -0.2dB
RIAA Equalization Deviation	
20Hz ~ 20kHz (Phono MM/MC)	$\pm 0.2/\pm 0.3$ dB
10Hz ~ 100kHz (MM)	± 0.5 dB
20Hz ~ 100kHz (MC)	± 0.5 dB
Total Harmonic Distortion (20Hz~20kHz)	
Phono MC to Rec Out	3V 0.002%
MM to Rec Out	3V 0.002%
CD/AUX/TAPE/TUNER to Pre Out	3V 0.002%
Intermodulation Distortion	
CD/AUX/TAPE/TUNER	5V Output 0.002%
Signal to Noise Ratio (IHF-A-Network)	
Phono MC (S=500 μ V)	84dB
MM (S=5mV)	94dB
CD/AUX/TAPE/TUNER	106dB
Signal to Noise Ratio (New IHF)	
Phono MC	79dB
MM	80dB
CD/AUX/TAPE/TUNER	92dB
Residual Noise (IHF-A-Network)	
	8 μ V
Channel Separation	
Phono MC, MM	1kHz/10kHz, 80dB/70dB
CD/AUX/TAPE/TUNER	1kHz/10kHz, 68dB/48dB
Tone Control Characteristics	
BASS boost/cut	± 10 dB (20Hz) turnover frequency 350Hz
TREBLE boost/cut	± 10 dB (20kHz) turnover frequency 3.5kHz
MID boost/cut	± 10 dB (1kHz)

Filter Characteristic	
Subsonic	15Hz-12dB/out
Continuauus Loudness Control	
Attenuation	40dB (1kHz)
Gain Tracking Error (0~-60dB) 2dB	
Power Supply	
AC120V, 60Hz (U.C.)	
AC110/120/220/240V, 60/50Hz (R)	
AC220~240V, 50Hz (G.B.)	
AC240V, 50Hz (A)	
Power Consumption	30W (U.C.R.A.G.B.)
AC Outlet	
Switched	200W (max)
Unswitched	200W (max)
Dimensions (W x H x D)	
	435 x 83 x 298 mm (17-1/8" x 3-1/4" x 11-3/4")
Weight	4.2kg (9 lbs 4 oz)

*Specifications subject to change without notice.

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

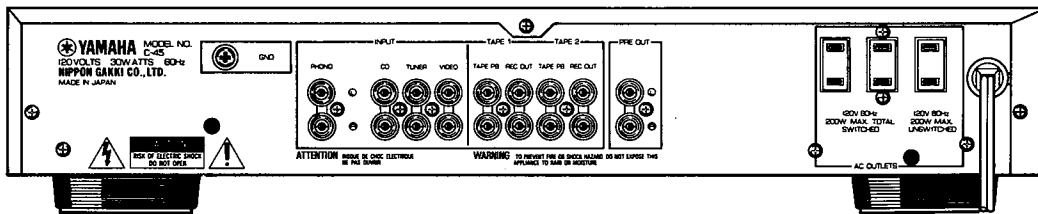
■ DIMENSIONS



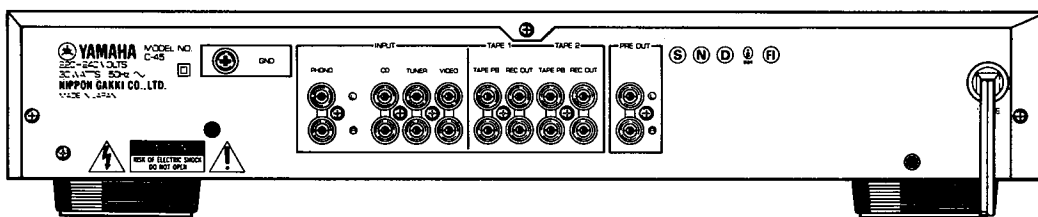
Unit mm (Inch)

■ REAR PANELS

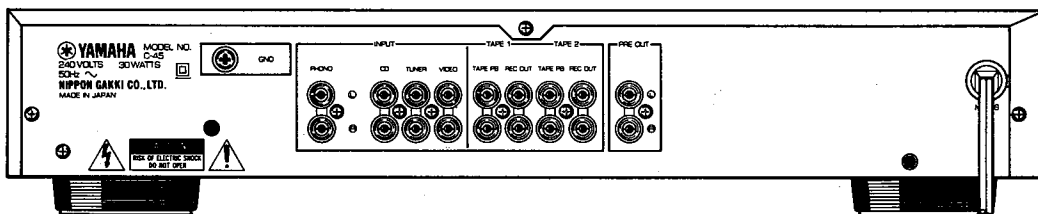
● U.S.A. & Canadian models



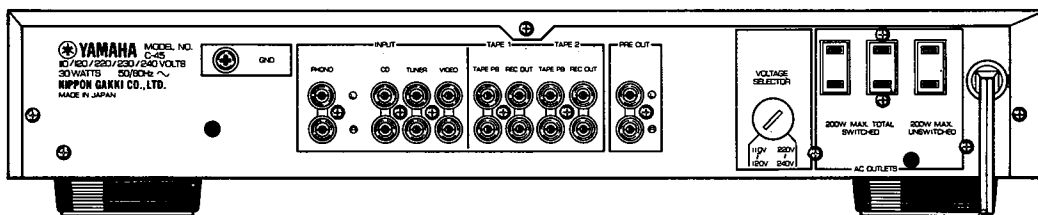
● European model



● Australian model

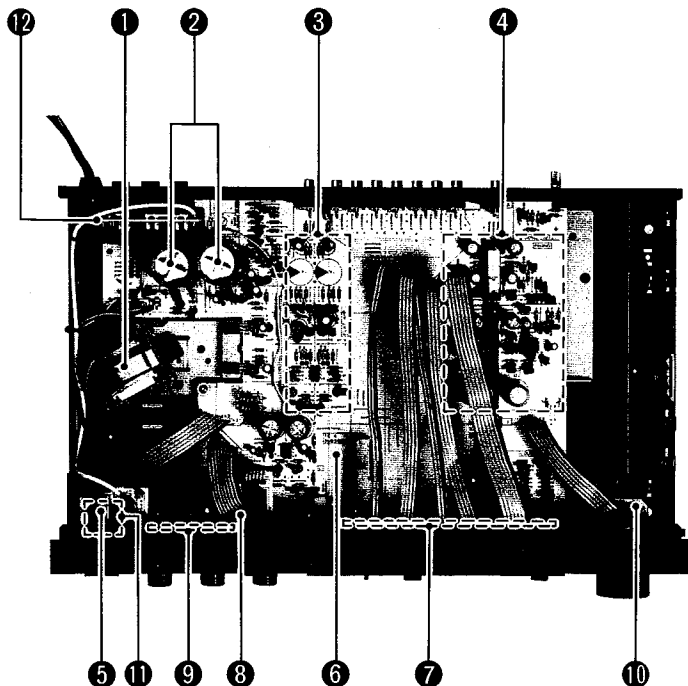


● Others model



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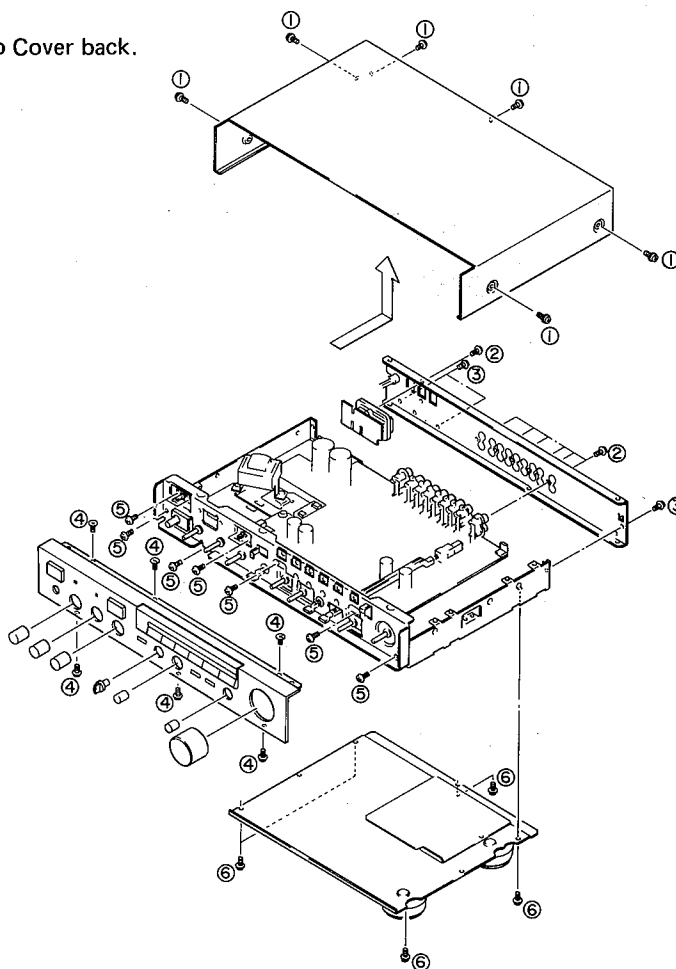
INTERNAL VIEW



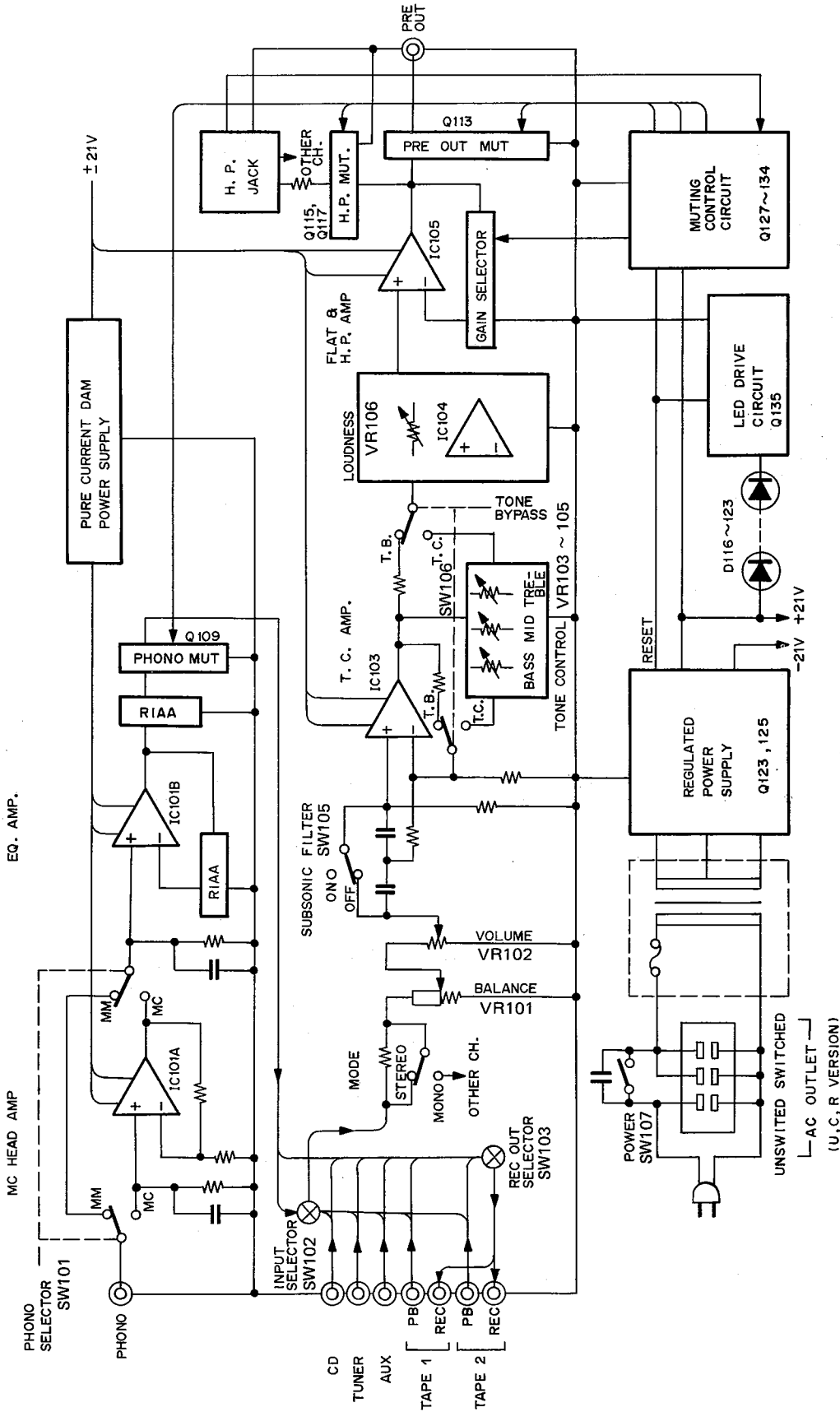
- ① POWER TRANSFORMER
 General model: XA648001
 U.S.A. & Canadian models: XA649001
 Australian, European & British models: XA650001
- ② ELECTROLYTIC CAP.
- ③ FLAT & HEADPHONE AMPLIFIER SECTION
- ④ EQUALIZER SECTION
- ⑤ POWER SWITCH
- ⑥ MAIN CIRCUIT BOARD (1)
- ⑦ MAIN CIRCUIT BOARD (2)
- ⑧ MAIN CIRCUIT BOARD (3)
- ⑨ MAIN CIRCUIT BOARD (4)
- ⑩ MAIN CIRCUIT BOARD (5)
- ⑪ MAIN CIRCUIT BOARD (6)
- ⑫ MAIN CIRCUIT BOARD (7)

DISASSEMBLY PROCEDURES

1. Removal of Top Cover.
 - a. Remove 6 screws (①) in Fig. 1. and slide the Top Cover back.
2. Removal of Rear Panel.
 - a. Remove 12 screws (②) in Fig. 1.
 - b. Remove 2 screws (③) in Fig. 1 (Side Panel).
 - c. Remove of knobs.
3. Removal of Front Panel.
 - a. Remove 6 screws (④) in Fig. 1.
 - b. Remove 10 screws (⑤) connector of the LED unit.
4. Removal of Bottom cover.
 - a. Remove 5 screws (⑥) in Fig. 1.

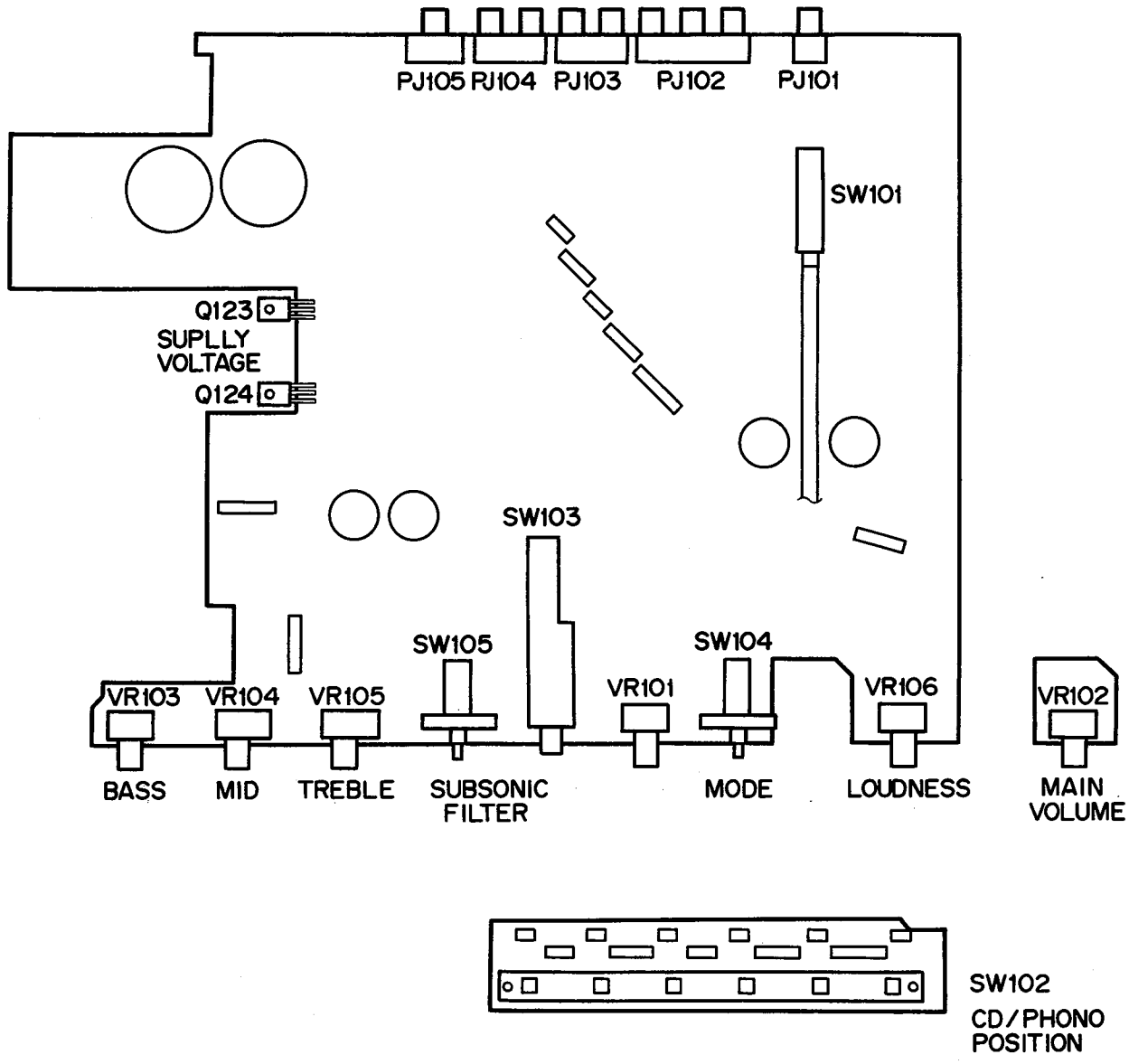


■ BLOCK DIAGRAM



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■ ADJUSTMENT POINTS

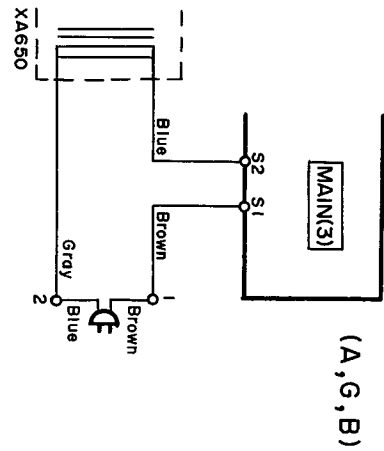
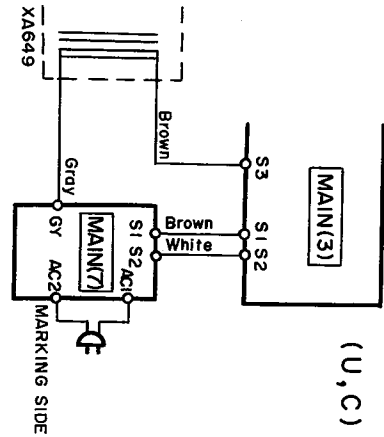
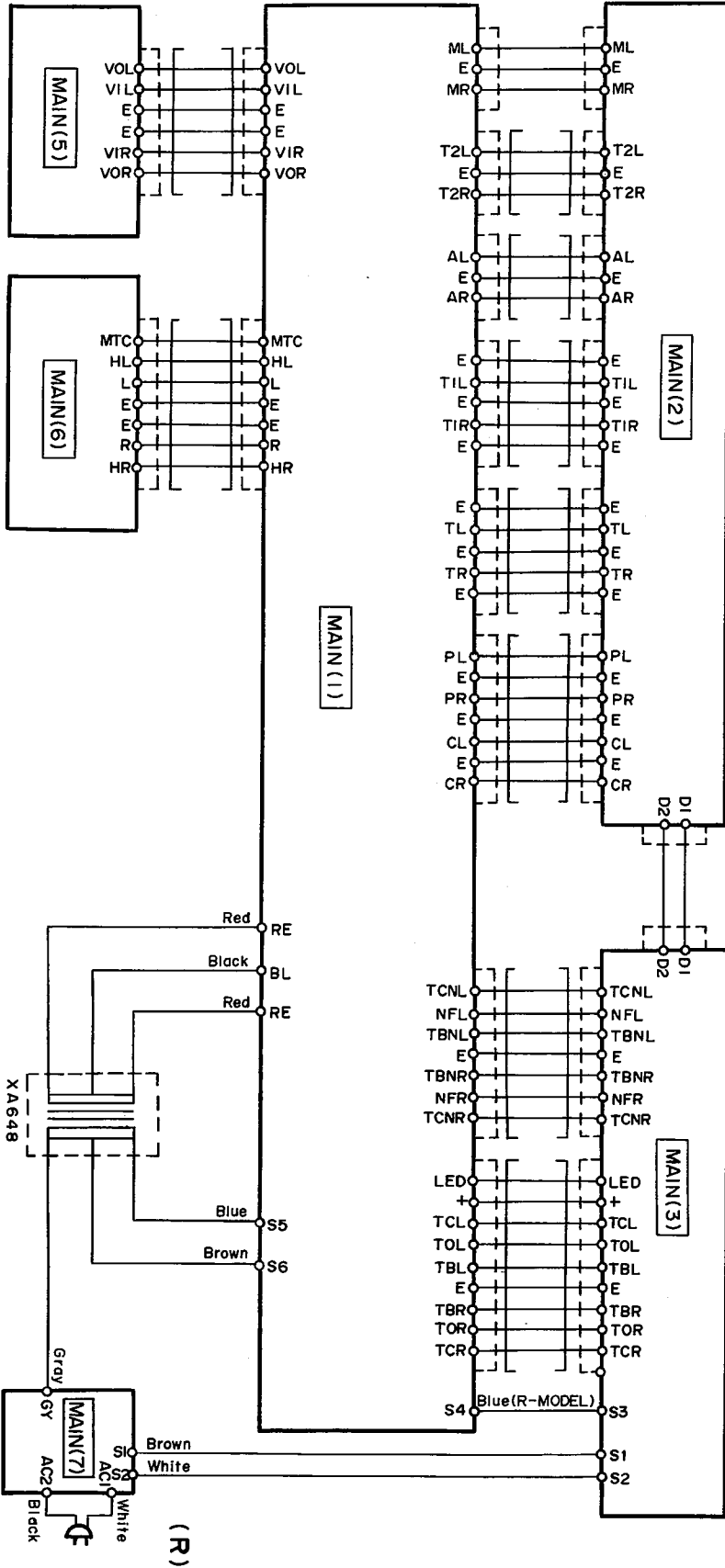


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■ CONFIRMATIONS

Step	Item	Condition or procedure	Check point	Rated value	Measuring device	Reference		
1	Connect the secondary wires, colors of RED, BLACK, and RED, from the Power Transformer to the TERMINALS of each corresponded color.							
2	Supply Voltage	Apply $120 \pm 1V/60Hz$ AC to the primary of Power Transformer	Emitter of Q123 Emitter of Q124	$21 \pm 1V$ DC $-21 \pm 1V$ DC	DC VM			
3	Flat Amp. Output Voltage	(a) Apply $150 \pm 10mV$ of 1kHz sine wave to the CD input on PJ102 (b) SW102: CD position (c) All other switches: OFF position (d) VR102 (Main VR) and VR106 (LOUDNESS): Fully clockwise (e) All other controls: Center position	PJ105 (Pre Out)	$1.5 \pm 0.2V$	AC VM			
4	Loudness (Output voltage)	Same as STEP-3 except VR106 (LOUDNESS): Fully counterclockwise	PJ105 (Pre Out)	$15 \pm 2mV$	AC VM			
5	Tone Control	BASS 20Hz	VR103	Full counterclockwise	PJ105 (Pre Out)	-9dB	AC VM	(a) All other conditions follow to STEP-3 (b) 1kHz 1.5V as 0dB
			Full clockwise	+9dB				
		MID 1kHz	VR104	Full counterclockwise		-11dB		
				Full clockwise		+9dB		
		TREBLE 20kHz	VR105	Full counterclockwise		-11dB		
				Full clockwise		+9dB		
6	Headphone Amp. Output Level	Same as STEP-3 except that a Headphone Plug (with 150Ω load) is plugged into the Headphone Jack	PJ105 (Pre Out) Headphone terminal	0 $4.2 \pm 0.5V$	AC VM			
7	Muting	With the same conditions to STEP-3, turn off the AC 120V power supply. When turned it on again:	PJ105 (Pre Out)	The output must be recovered in 5 ± 1 second	AC VM			
8	Subsonic Filter	Same as STEP-3 except; (a) 15Hz input signal, and (b) SW105-ON	PJ105 (Pre Out)	$-3 \pm 2dB$	AC VM	Output level with SW105-OFF as 0dB		
9	Mode	With the same to STEP-3, apply 1kHz 1V test signal to L-ch only	SW104 OFF (Mode) ON R-ch Output (PJ105)	Under 10mV $0.5 \pm 0.1V$	AC VM	The oposit channel should be the same		
10	EQ Amp.	(a) Apply the test signal to PJ101 (b) SW102: Phone position	SW101: MM 1kHz 2.5mV SW101: MC 1kHz 100 μ V	PJ105 (Pre Out)	$1.5 \pm 0.2V$ $1.5 \pm 0.2V$	AC VM	All other conditions follow to STEP-3	

WIRING

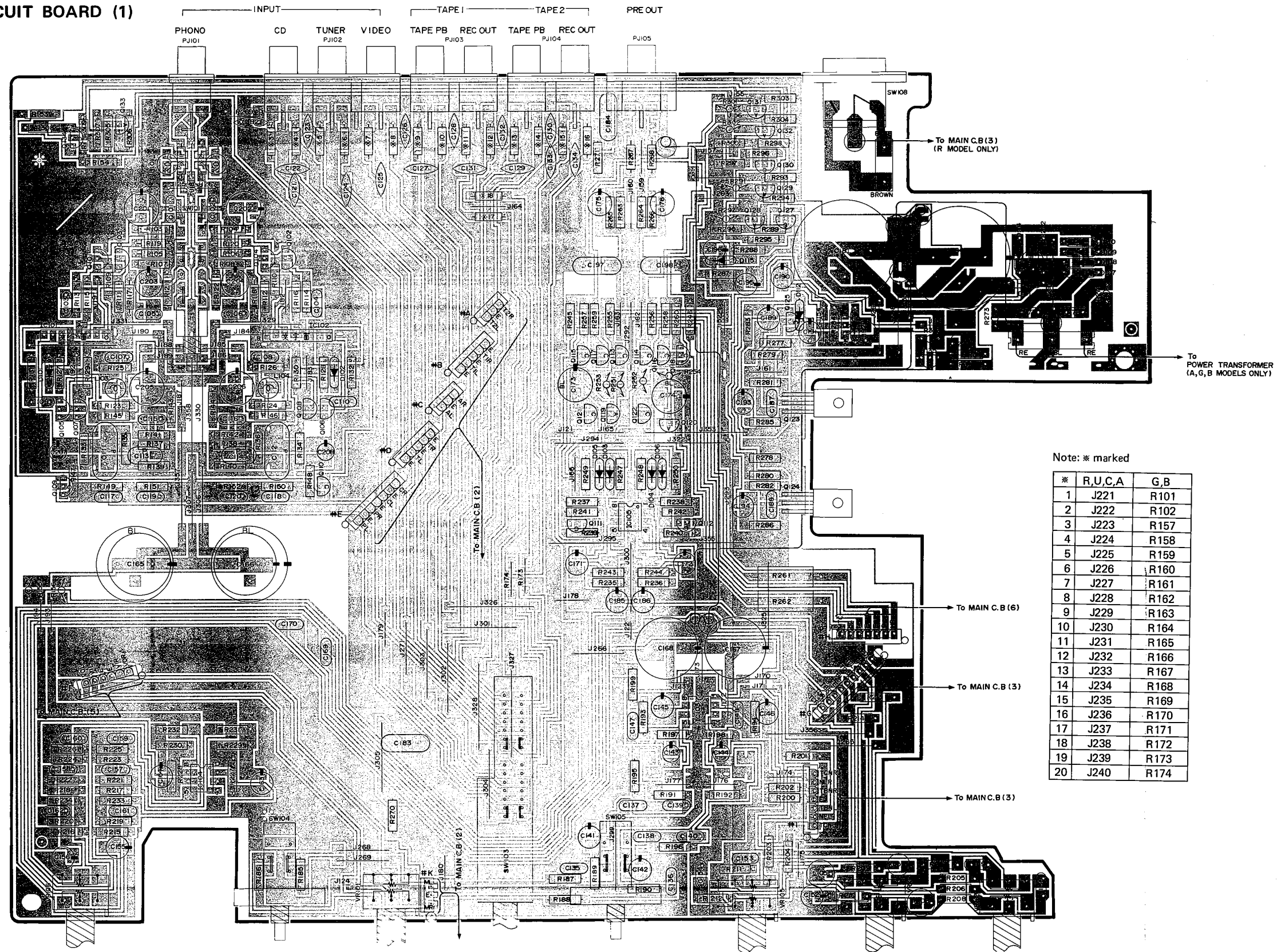


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PRINTED CIRCUIT BOARD (Pattern Side)

Note)
文字面 : Letter side

MAIN CIRCUIT BOARD (1)



Note: * marked

#	R,U,C,A	G,B
1	J221	R101
2	J222	R102
3	J223	R157
4	J224	R158
5	J225	R159
6	J226	R160
7	J227	R161
8	J228	R162
9	J229	R163
10	J230	R164
11	J231	R165
12	J232	R166
13	J233	R167
14	J234	R168
15	J235	R169
16	J236	R170
17	J237	R171
18	J238	R172
19	J239	R173
20	J240	R174

☐ STEREO
☐ MONO
MODE

☐ OFF
☐ ON
FILTER

LOUDNESS

BALANCE

REC OUT

FILTER

TREBLE

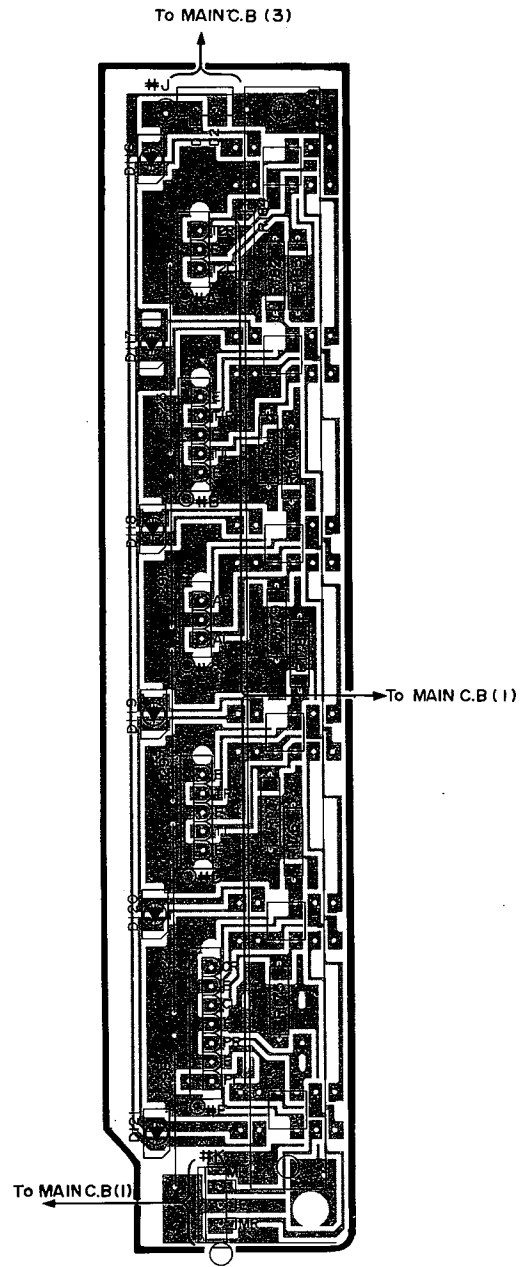
MID

BASS

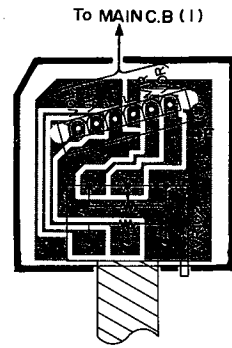
PRINTED CIRCUIT BOARD (Pattern Side)

Note)
文字面 : Letter side

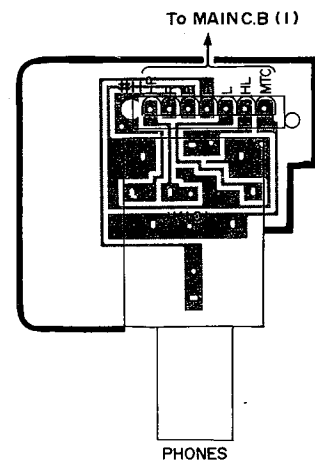
MAIN CIRCUIT BOARD (2)



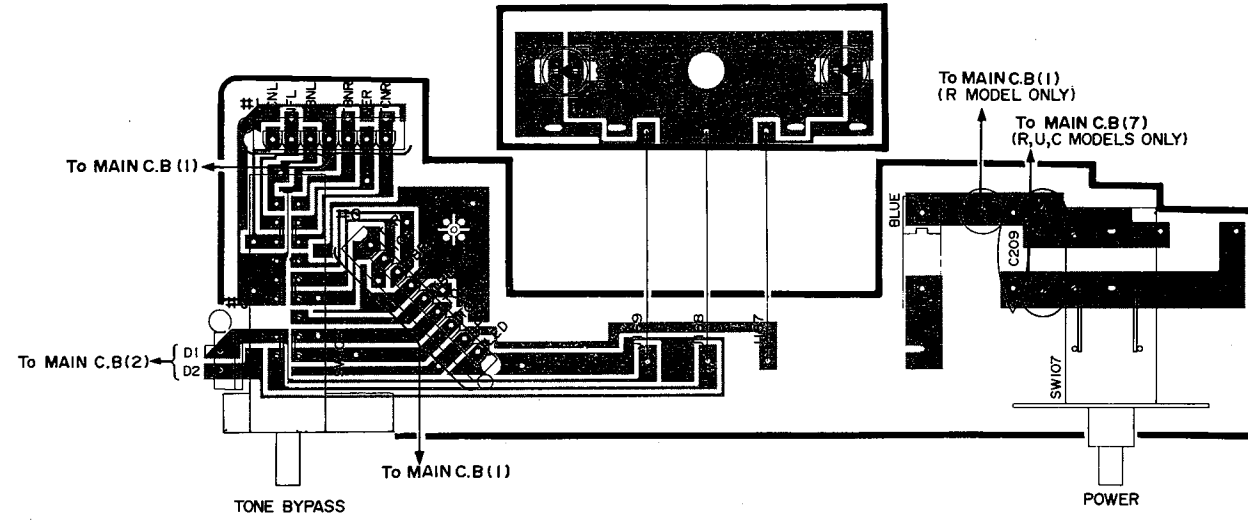
MAIN CIRCUIT BOARD (5)



MAIN CIRCUIT BOARD (6)

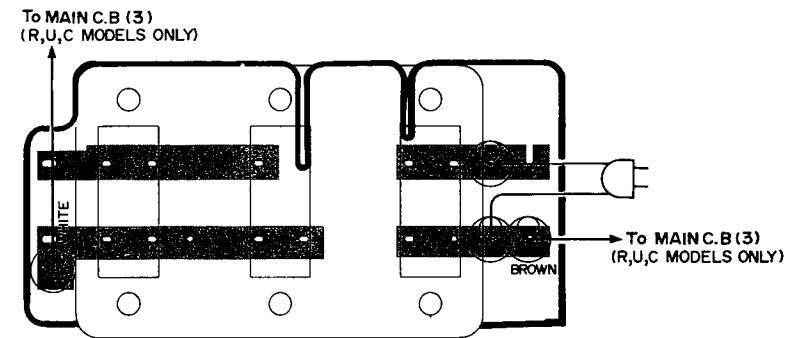


MAIN CIRCUIT BOARD (4)



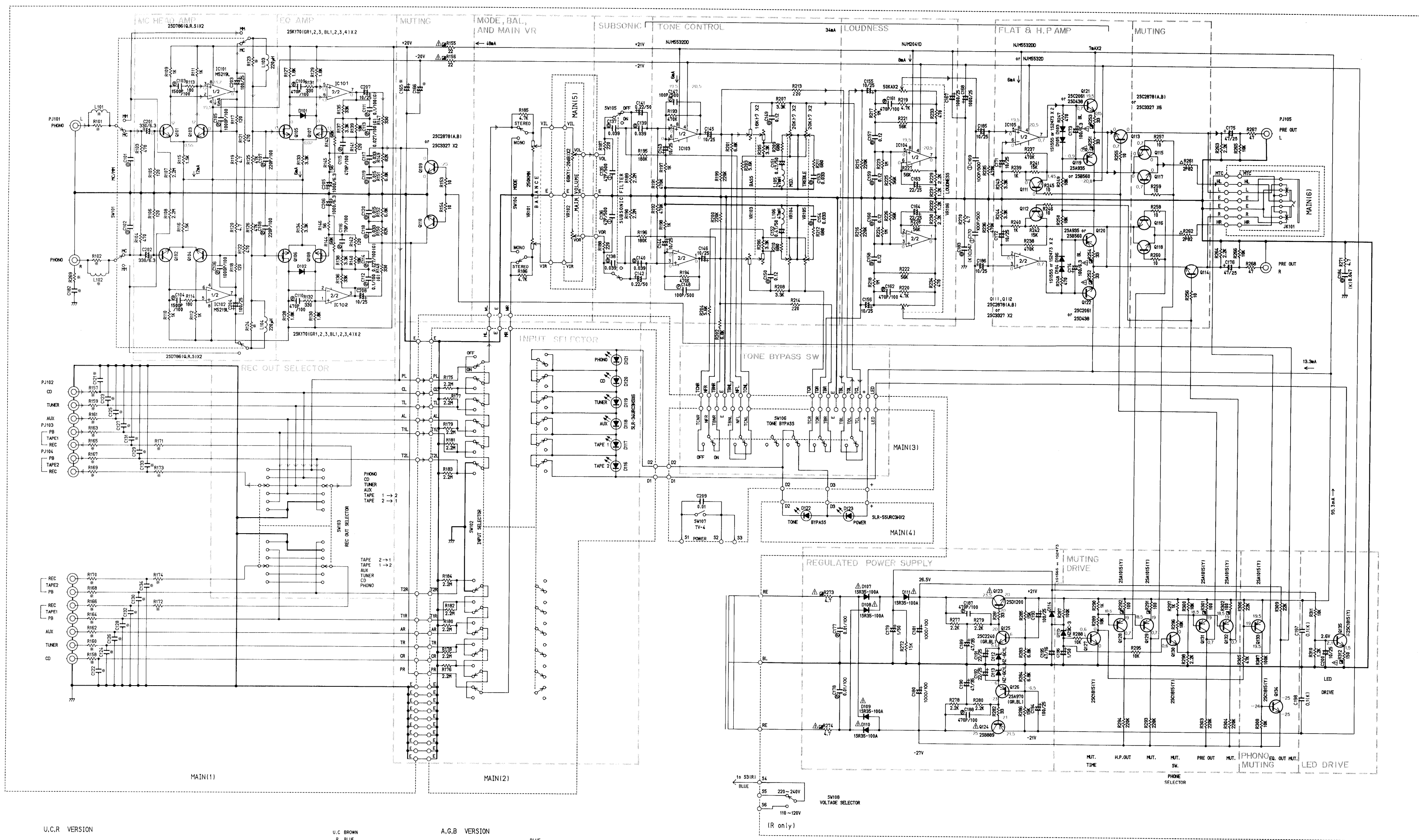
MAIN CIRCUIT BOARD (3)

MAIN CIRCUIT BOARD (7)

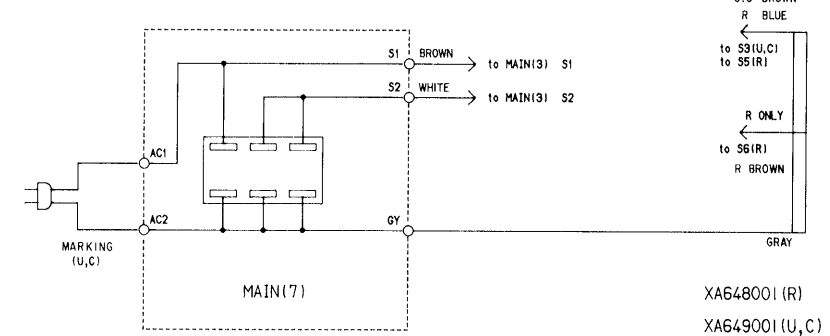


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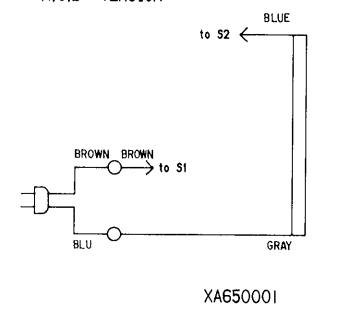
■ SCHEMATIC DIAGRAM



U.C.R VERSION



A.G.B VERSION



MARKED

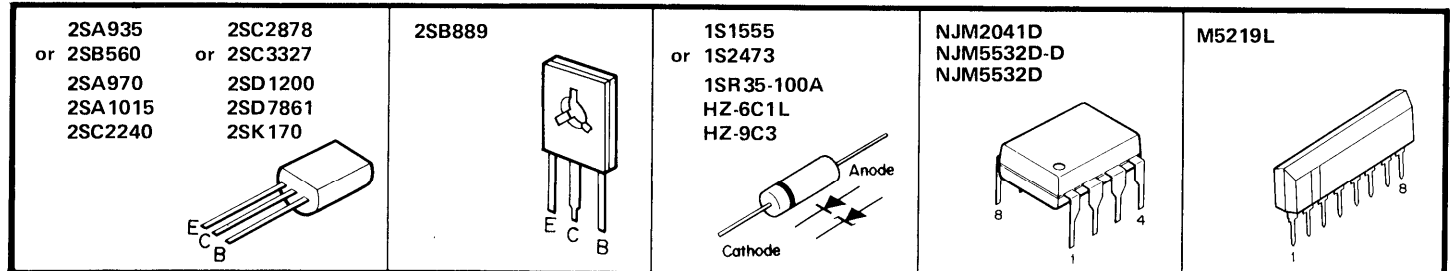
VERSION	R	U.C	A	G.B
L101,102	open	←	←	15μH
R101,102	short	←	←	1KΩ
R123,124	220Ω	←	←	2.2KΩ
R157~174	short	←	←	220Ω
R269	open	←	←	4.7
C101,102	∞, 0.1μF	←	←	0.022μF
C121~130	open	←	←	220PF
C182	open	←	←	100PF
C131~C134	open	←	←	←
C165,166	P	←	←	1000/35

⚠ Unless otherwise specified, the diode is 1S1555 or 1S2473

END	OUT
C	209 199
R	312 299,275,276
Q	135
D	123

➔ AUDIO SIGNAL

■ PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODE AND ICS.



CAPACITOR

REMARKS	PARTS NAME	SYMBOL
NO MARK	ELECTROLYTIC CAPACITOR	⊖
NO MARK	CERAMIC CAPACITOR	⊖
⊖	POLYESTER FILM CAPACITOR (MYLAR)	⊖
⊖	POLYSTYRENE FILM CAPACITOR	⊖
⊖	MICA CAPACITOR	⊖
⊖	POLY PROPYLENE FILM CAPACITOR	⊖
●	SEMICONDUCTIVE CERAMIC CAPACITOR	⊖

RESISTOR

REMARKS	PARTS NAME	SYMBOL
NO MARK	CARBON FILM RESISTOR	⊖
△	METAL OXIDE FILM RESISTOR	⊖
⊖	METAL FILM RESISTOR	⊖
⊖	METAL PLATE RESISTOR	⊖
⊖	FIRE PROOF CARBON FILM RESISTOR	⊖
⊖	SEMENT MOLDED RESISTOR	⊖
⊖	SEMI VARIABLE RESISTOR	⊖
⊖	1/6W CARBON FILM RESISTOR	⊖

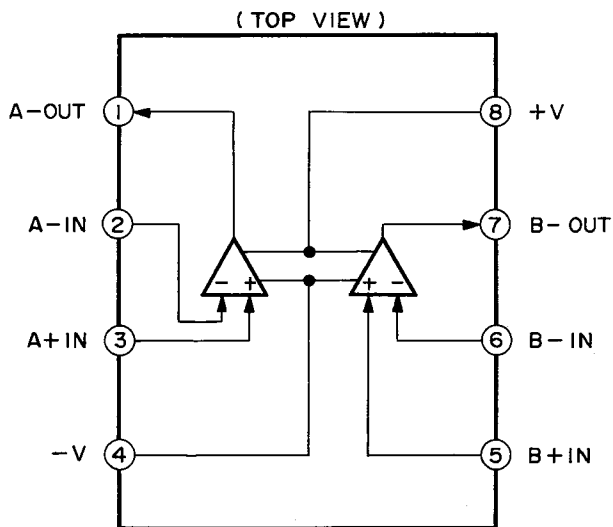
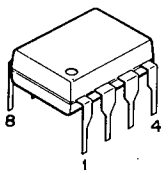
CAUTION

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

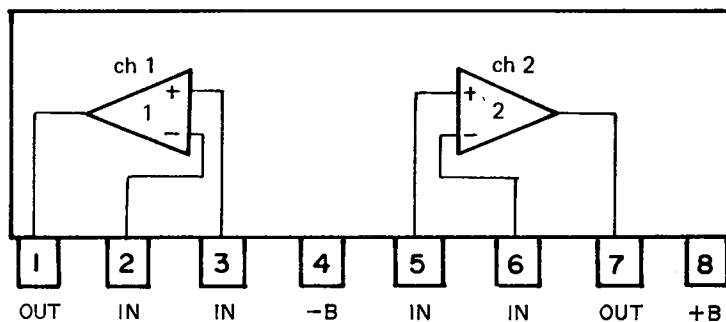
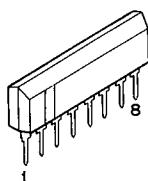
■ IC BLOCK DIAGRAM

IC103
NJM5532D-D

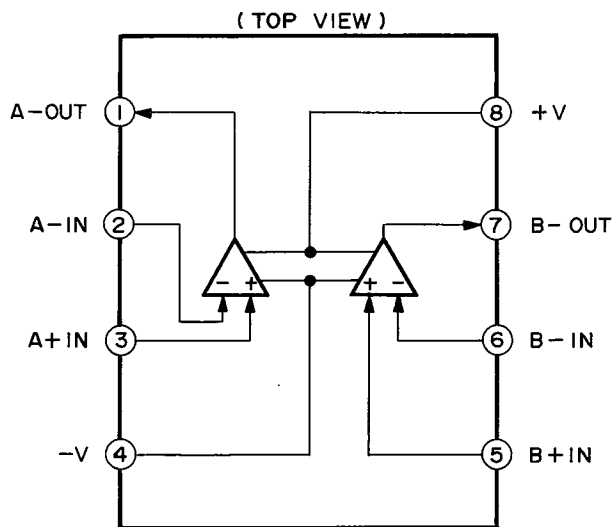
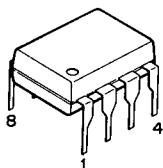
IC105
NJM5532 or NJM5532D-D



IC101, 102
M5219L



IC104
NJM2041D



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PARTS LIST

■ ELECTRICAL PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	NA 08 99 00	Main Circuit Board Ass'y	メ イ ン シ ー ト			R	
※	NA 08 99 10	"	"			U,C	
※	NA 08 99 20	"	"			A	
※	NA 08 99 30	"	"			G,B	
	FG 21 21 00	Ceramic Cap.	100pF 50V	セ ラ コ ン	C131~134,182	G,B	
	FG 21 22 20	"	220pF 50V	"	C121~130	G,B	
	FU 35 14 70	Mica Cap.FE	47pF 500V	F E マ イ コ ン	C135,136		
	Fi 38 41 00	Ceramic Cap.	0.01 μ F VA-1	セ ラ コ ン	C209	A,G,B	
	Fi 50 41 00	"	0.01 μ F DNS	"	//	A,G,B	
	Fi 41 41 00	"	0.01 μ F VA-1	"	//	R,U,C	
	FV 44 91 00	Electrolytic Cap.	1000 μ F 25V	プ ラ ス チ ッ ク ケ ミ コ ン	C167,168		
	FV 44 91 00	"	1000 μ F 25V	"	C165,166	R,U,C	
	FZ 00 74 50	"	1000 μ F 35V	ブ ラ ッ ク ゲ ー ト コ ン (F)	//	A,G,B	
	FZ 00 54 10	"	100 μ F 6.3V	"	C173,174		
	FZ 00 55 80	Mylar Cap.	0.047 μ F 50V	マ イ ラ ー コ ン	C183,184		
	FZ 00 49 40	"	0.1 μ F 50V	"	C197,198		
	FZ 00 59 70	Electrolytic Cap.	1000 μ F 100V	オ ー デ ィ オ ケ ミ コ ン	C180,181		
	UA 25 41 00	Mylar Cap.	0.01 μ F 50V	マ イ ラ ー コ ン	C101,102	R,U,A,C	
	UA 25 42 20	"	0.022 μ F 50V	"	//	G,B	
	FA 15 41 50	"	0.015 μ F 50V	"	C119,120		
	UA 25 43 30	"	0.033 μ F 50V	"	C117,118,153,154		
	UA 55 43 90	"	0.039 μ F 50V	"	C137~140		
	FA 15 51 20	"	0.12 μ F 50V	"	C149,150,157~160		
※	UM 02 83 30	Electrolytic Cap.	330 μ F 6.3V	オ ー デ ィ オ コ ガ タ ケ ミ コ ン	C201,202		
※	UM 02 91 00	"	1000 μ F 6.3V	"	C205,206		
	UM 05 71 00	"	10 μ F 25V	"	C143,144,207,208		
	UM 05 74 70	"	47 μ F 25V	"	C175,176		
	UM 05 81 00	"	100 μ F 25V	"	C203,204		
	UT 46 42 70	Polypropylene Film Cap.	0.027 μ F 100V	ポ リ プ ロ コ ン	C113,114		
	UT 46 51 00	"	0.1 μ F 100V	"	C111,112		
	UT 45 22 20	"	220pF 100V	"	C107,108		
	UT 45 21 00	"	100pF 100V	"	C147,148,169,170		
	UT 45 24 70	"	470pF 100V	"	C109,110,115,116,161,162,187,188		
	UT 45 31 00	"	1000pF 100V	"	C105,106		
	UT 45 31 50	"	1500pF 100V	"	C103,104		
	UT 45 41 00	"	0.01 μ F 100V	"	C177,178		
※	UH 23 74 70	Electrolytic Cap.	47 μ F 16V	超 小 型 ケ ミ コ ン	C195		
※	UH 24 71 00	"	10 μ F 25V	"	C145,146,155,156,171,172,185,186,200		
※	UH 24 72 20	"	22 μ F 25V	"	C163,164,191,192		
※	UH 24 81 00	"	100 μ F 25V	"	C193,194		
※	UH 25 74 70	"	47 μ F 35V	"	C189,190		
※	UH 26 52 20	"	0.22 μ F 50V	"	C141,142		
※	UH 26 54 70	"	0.47 μ F 50V	"	C151,152		
※	UH 26 61 00	"	1 μ F 50V	"	C179,196		
	GE 90 18 60	Coil	47mH	固 定 コ イ ル	L105,106		
※	VA 98 35 00	"	15 μ H	コ イ ル	L101,102	G,B	
※	VA 98 36 00	"	220 μ H	"	L103,104		
	HL 32 48 20	Metal Oxide Film Resistor	82 Ω 2W	酸 金 抵 抗	R261,262		
	HV 45 34 70	Flame Proof Carbon Resistor	4.7 Ω 1/4W	不 燃 可 カ ー ボ ン 抵 抗	R273,274		
	HV 45 42 20	"	22 Ω 1/4W	"	R155,156		
	HV 45 43 30	"	33 Ω 1/4W	"	R251~254		

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	HV:45:51:00	Flame Proof Curbon Resister	100Ω 1/4W	不燃可カーボン抵抗	R291,292,301,302		
	HV:45:51:50	//	150Ω 1/4W	//	R312		
※	VA:98:46:00	Potentiometer	50KΩ-A×2	可 変 抵 抗 器	VR106		
※	VA:98:47:00	//	250KΩ×2	//	VR101		
※	VA:98:48:00	//	20KΩ×2	//	VR104,105		
※	VA:98:49:00	//	16KΩ×2	//	VR103		
※	VA:98:50:00	//	60KΩ-Y×2	//	VR102		
	iA:09:70:00	Transistor	2SA970 (GR,BL)	ト ラ ン ジ ス タ ー	Q126		
	iA:10:15:21	//	2SA1015 (Y)	//	Q128,129,131~133		
	iX:60:32:80	//	2SA935	//	Q119,120		
※	iB:05:60:00	//	2SB560	//	//	Inter-changeable	
※	VA:93:31:00	//	2SB889	//	Q124		
	iC:18:15:20	//	2SC1815 (Y)	//	Q127,130,134,135		
	iC:22:40:00	//	2SC2240 (GR,BL)	//	Q125		
	iX:60:42:00	//	2SC2878 (A,B)	//	Q109~118		
	iC:33:27:00	//	2SC3327	//	//	Inter-changeable	
※	iC:20:61:00	//	2SC2061	//	Q121,122		
※	iD:04:38:00	//	2SD438	//	//	Inter-changeable	
	iD:07:86:00	//	2SD786 (Q,R,S)	//	Q101~104		
※	VA:93:30:00	//	2SD1200	//	Q123		
※	iE:10:24:80	FET	2SK170 ^(GR,1,2,3,4) _(BL,1,2,3,4)	F E T	Q105~108		
	iF:00:07:10	Diode	1S2473	ダ イ オ ー ド	D101~106,114		
	iF:00:00:40	//	1S1555	//	//	Inter-changeable	
	iF:00:41:60	Zener Diode	HZ6C1L	ツェナーダイオード	D112,113		
	iF:00:33:20	//	HZ9C3	//	D115		
	iF:00:44:40	LED(Red)	SLV56URC3H	L E D (赤)	D122,123		
	iF:00:87:30	LED	SLR-34URC3H3	L E D	D116~121		
	iH:00:14:30	Diode	1SR-35-100A	ダ イ オ ー ド	D107~111		
	iG:09:21:00	IC	M5219L	I C	IC101,102		
	iG:12:14:00	//	NJM2041D	//	IC104		
	iG:14:28:00	//	NJM5532D	//	IC105		
※	XA:67:30:01	//	NJM5532DD	//	//	Inter-changeable	
※	XA:67:30:01	//	NJM5532DD	//	IC103		
	KA:80:51:10	Push Switch	SUN 2-2NS	プ ッ シ ュ S W	SW104,105		
※	VA:98:38:00	//	SUN 4-2NS	//	SW101		
※	VA:98:39:00	//	SUN 6-2S	//	SW106		
※	VA:98:41:00	//		6 連 プ ッ シ ュ S W	SW102		
※	VA:98:37:00	Rotary Switch	SRZ-V	ロ ー タ リ S W	SW103		
	KA:80:51:50	Power Switch	ESB-8215V-F	パ ワ ー S W	SW107		
※	LA:00:58:10	Voltage Selector		電 圧 切 換 器	SW108	R	
	LB:20:26:10	Pin Jack	2P	ピ ン ジ ャ ッ ク	PJ105		
※	LB:20:29:00	//	2P	//	PJ101		
	LB:40:12:90	//	4P	//	PJ103,104		
※	VA:98:43:00	//	6P	//	PJ102		
※	VA:98:45:00	Headphones Jack		ヘ ッ ド ホ ン ジ ャ ッ ク	JK101		
	CB:64:46:70	Cap. Cover	HY-0105	コ ン デ ン サ カ バ ー		A,G,B	
	LA:00:21:40	Wrapping Terminal Type-1	2P P=10	I 型 ラ ッ ピ ン グ 端 子 板			
	LA:00:21:50	//	3P P=10	//			
※	VA:72:56:00	Parallel Holder	6P	パ ラ レ ル ホ ル ダ ー			
※	VA:72:59:00	//	9P	//			

※ New Parts (新規部品)

A

B

C

D

E

MECHANISM EXPLODED VIEW

1

2

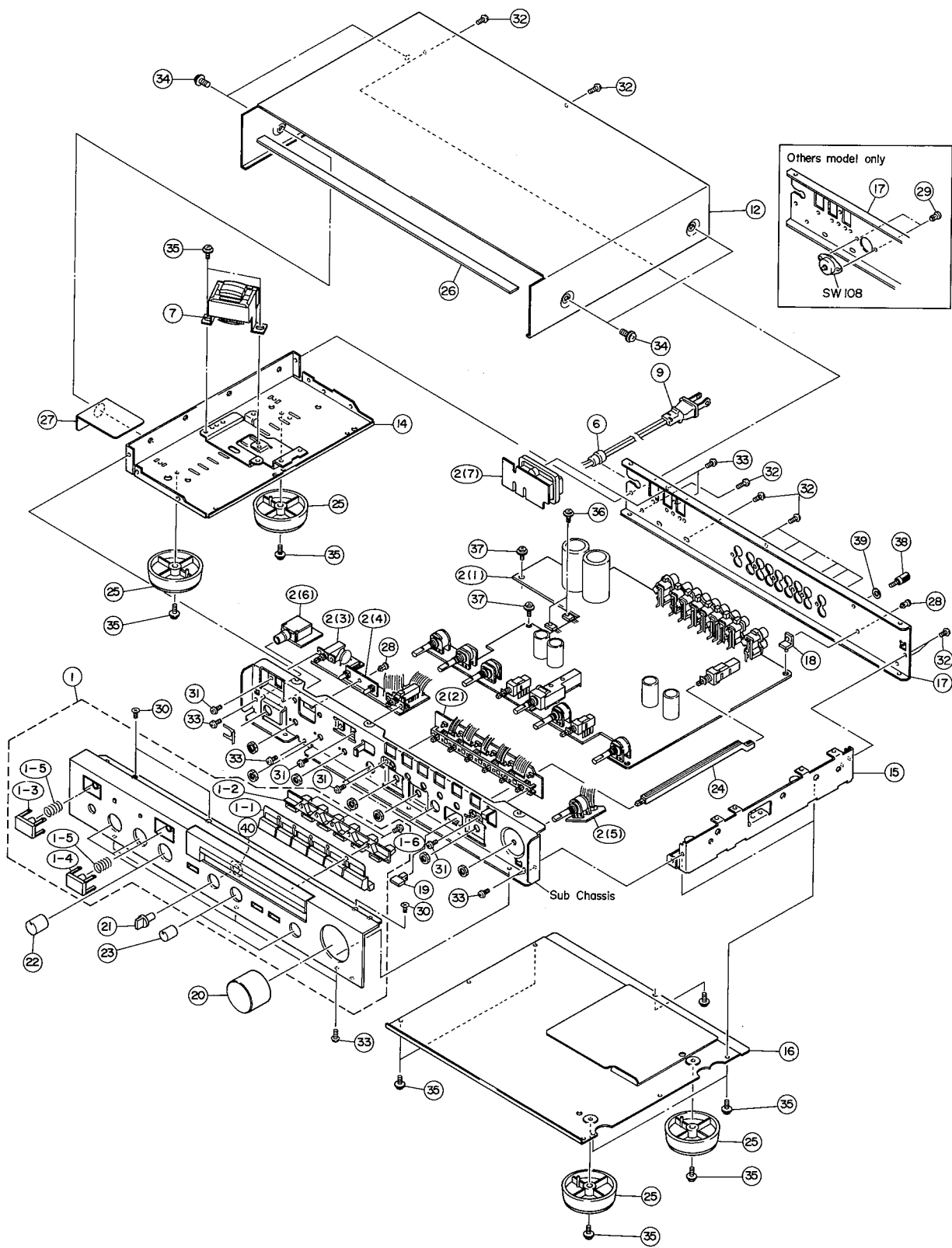
3

4

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6

7



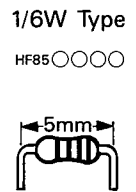
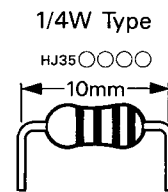
MECHANISM PARTS

Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
※	1	NB:63:32:90	Panel Unit	パネルユニット			
※	1-1	NB:63:33:60	Button Ass'y	ボタン Ass'y			
※	1-2	CB:65:13:30	Reflector	リフレクター			
	1-3	CB:63:51:30	Button P	ボタン P	A-520		
	1-4	CB:63:51:50	Button T	ボタン T	A-520		
	1-5	AA:62:20:80	Spring	スプリング	M-80		
	1-6	EX:60:02:00	Cap Screw	2×6 FCM3-BI 鉄カップスクリューPタイト			
※	2	NA:08:99:00	Main Circuit Board	メインシート		R	
※	//	NA:08:99:10	//	//		U.C	
※	//	NA:08:99:20	//	//		A	
※	//	NA:08:99:30	//	//		G.B	
	5	LA:00:54:90	Circuit Board Terminal	834T-1100 ボードイン端子			
	6	CB:62:01:90	Cord Stopper	CM-22B コードストッパ		R.A.G.B	
	//	CB:62:02:00	//	CM-22C //		U.C	
※	7	XA:64:80:01	Power Transformer	電源トランス		A.G.B	
※	//	XA:64:90:01	//	//		U.C	
※	//	XA:65:00:01	//	//		A.G.B	
	8	LA:00:29:50	Terminal Board	2P MA0092A 中継端子台			
※	9	MG:00:23:10	Power Cord	7.5A 250V 2m 電源コード		A	
	//	MG:00:09:20	//	7.5A 250V 2.5m //		A	
	//	MG:00:14:90	//	7.5A 250V 2.5m //		A	
	//	MG:00:16:20	//	2.5A 250V 2m //		G.B	
	//	MG:00:16:30	//	6A 250V 2m //		R	
	//	MG:00:22:20	//	10A 125V 1.98m //		U.C	
	10	CB:06:92:50	Binding Tie	BK-1 インシュロックタイ			
	11	LB:10:01:80		ショートピンプラグ			
※	12	AA:62:93:10	Top Cover	トップカバー			
※	14	AA:62:92:80	Frame L	フレーム L			
※	15	AA:62:93:80	Side Frame R	サイドフレーム R			
※	16	AA:62:92:90	Bottom Cover	ボトムカバー			
※	17	AA:62:92:30	Rear Panel	リヤパネル		R	
※	//	AA:62:92:40	//	//		U.C	
※	//	AA:62:92:50	//	//		G.B	
※	//	AA:62:92:60	//	//		A	
	18	CB:09:12:90	Holder Circuit Board	基板ホルダー			
※	19	CB:65:19:80	Button F	ボタン F			
※	20	BA:09:47:30	Knob	ノブ			
	21	CB:63:42:70	Switch Knob	スイッチノブ	K-720		
	22	BA:08:29:30	Knob	ツマミ	K-500		
	23	VA:74:02:00	//	//	SR-100X		
※	24	CB:65:13:40	Rod	ロッド			
	25	NB:62:01:40	Leg Ass'y	レッグ Ass'y	C-80		
※	26	CB:65:19:90	Damper	ダンパー			
※	27	CB:65:20:00	Spacer	スペーサ			
	28	CB:06:88:80	Plastic Rivet	No.1027 プラスチックリベット			
	29	CB:60:92:60	//	No.6206 //		R	
	30	Ei:33:00:66	Binding Head Tapping Screw	3×6 FCM3-BI 鉄サラタップタイト(Bタイト)	PACK		
	31	ED:33:00:66	Binding Head Screw	M3×6 FCM3-BI 鉄バインド小ネジ	PACK	R.C.A.G.C.B	
	32	EK:35:00:20	Pan Head Tapping Screw	3×8 FCM3-BI ナベタップタイトネジ			
	33	Ei:33:00:86	Binding Head	3×8 FCM3-BI 鉄バインドBタイト	PACK	R.C.A.G.C.B	
	34	EK:96:60:70	BW Head Tapping Screw	4×8 ZMC2-BI 鉄BWヘッドSタイト			
	35	EK:33:60:20	//	//			

※New Parts (新規部品)

Parts List for Carbon Resistor

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ353100	※	12KΩ	HJ357120	HF857120
1.8 "	HJ353180	※	15 "	HJ357150	HF857150
2.2 "	HJ353220	HF853220	18 "	HJ357180	HF857180
3.3 "	HJ353330	HF853330	22 "	HJ357220	HF857220
4.7 "	HJ353470	HF853470	27 "	HJ357270	HF857270
5.6 "	HJ353560	HF853560	33 "	HJ357330	HF857330
10 "	HJ354100	HF854100	39 "	HJ357390	HF857390
15 "	HJ354150	HF854150	47 "	HJ357470	HF857470
22 "	HJ354220	HF854220	56 "	HJ357560	HF857560
27 "	HJ354270	HF854270	68 "	HJ357680	HF857680
33 "	HJ354330	HF854330	82 "	HJ357820	HF857820
39 "	HJ354390	HF854390	91 "	HJ357910	HF857910
47 "	HJ354470	HF854470	100 "	HJ358100	HF858100
56 "	HJ354560	HF854560	120 "	HJ358120	HF858120
68 "	HJ354680	HF854680	150 "	HJ358150	HF858150
82 "	HJ354820	HF854820	180 "	HJ358180	HF858180
100 "	HJ355100	HF855100	220 "	HJ358220	HF858220
110 "	HJ355110	HF855110	270 "	HJ358270	HF858270
120 "	HJ355120	HF855120	330 "	HJ358330	HF858330
150 "	HJ355150	HF855150	390 "	HJ358390	HF858390
160 "	HJ355160	※	470 "	HJ358470	HF858470
180 "	HJ355180	HF855180	560 "	HJ358560	HF858560
220 "	HJ355220	HF855220	680 "	HJ358680	HF858680
270 "	HJ355270	HF855270	820 "	HJ358820	HF858820
330 "	HJ355330	HF855330	1.0MΩ	HJ359100	HF859100
390 "	HJ355390	HF855390	1.2 "	HJ359120	※
470 "	HJ355470	HF855470	1.5 "	HJ359150	HF859150
510 "	※	HF855510	1.8 "	HJ359180	HF859180
560 "	HJ355560	HF855560	2.2 "	HJ359220	HF859220
680 "	HJ355680	HF855680	3.3 "	HJ359330	HF859330
820 "	HJ355820	HF855820	3.9 "	HJ359390	※
910 "	HJ355910	HF855910	4.7 "	HJ359470	※
1.0KΩ	HJ356100	HF856100			
1.2 "	HJ356120	HF856120			
1.5 "	HJ356150	HF856150			
1.8 "	HJ356180	HF856180			
2.0 "	HJ356200	HF856200			
2.2 "	HJ356220	HF856220			
2.4 "	HJ356240	HF856240			
2.7 "	HJ356270	HF856270			
3.0 "	HJ356300	HF856300			
3.3 "	HJ356330	HF856330			
3.6 "	HJ356360	HF856360			
3.9 "	HJ356390	HF856390			
4.7 "	HJ356470	HF856470			
5.1 "	HJ356510	HF856510			
5.6 "	HJ356560	HF856560			
6.8 "	HJ356680	HF856680			
8.2 "	HJ356820	HF856820			
9.1 "	HJ356910	HF856910			
10 "	HJ357100	HF857100			



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