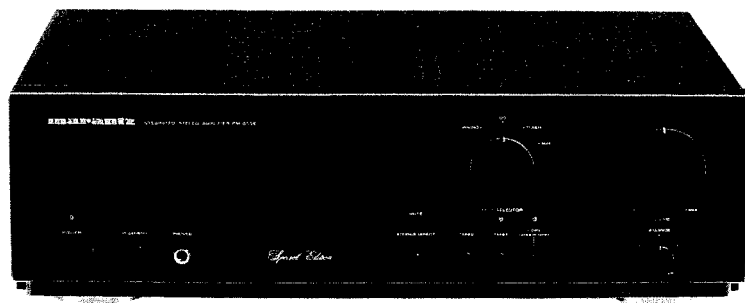


# Service Manual

PM-66SE F  
74PM66 / 11B / 12B / 15B  
Integrated stereo amplifier



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Please use this service manual with referring to the user guide ( D.F.U. ) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## model PM-66SE

## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

### ORDERING PARTS:

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

#### USA

MARANTZ AMERICA, INC.  
440 MEDINAH ROAD  
ROSELLE, ILLINOIS 60172-2330  
USA  
PHONE : 708-307-3100  
FAX : 708-307-2687

#### CANADA

LENBROOK INDUSTRIES LIMITED  
633 GRANITE COURT,  
PICKERING, ONTARIO L1W 3K1  
CANADA  
PHONE : 416-831-8333  
FAX : 416-831-8936

#### EUROPE

MARANTZ EUROPE B.V.  
P.O. BOX 80002  
BUILDING SFF2  
5800 JB EINDHOVEN  
THE NETHERLANDS  
PHONE : +31-40-2732241  
FAX : +31-40-2735578

#### PROFESSIONAL-USA

SUPERSCOPE TECHNOLOGIES, INC.  
MARANTZ PROFESSIONAL PRODUCTS  
1000 CORPORATE BLVD., SUITE D  
AURORA, ILLINOIS 60504 USA  
PHONE : 708-820-4800  
FAX : 708-820-8103

#### PROFESSIONAL-CANADA

TC ELECTRONICS CANADA LTD  
540 FIRING AVE.  
BAIE D'URFÉ, QUEBEC H9X 3T2  
CANADA  
PHONE : 514-457-4044  
FAX : 514-457-5524

#### TRADING

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#### AUSTRALIA

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3 Figtree Drive  
Australia Centre  
Homebush, NSW2140 AUSTRALIA  
PHONE : +61 2 742.8311  
FAX : +61 2 7643074

#### HONG-KONG

FORWARD INTERNATIONAL CORP. LTD.  
15 TH FLOOR, REGENT CENTRE,  
88 QUEEN'S ROAD, CENTRAL, H. K.  
PHONE : +852 521-0883  
FAX : +852 521-7835

#### THAILAND

MRZ STANDARD CO., LTD.  
746-750 WANGBURAPA BANGKOK  
10200 THAILAND  
PHONE : +66 2222 9181  
FAX : +66 2225 8871

#### TAIWAN

PAI-YUING CO., LTD.  
6 TH FL NO. 148 SUNG KIANG RORD,  
TAIPEI, 10429, TAIWAN R.O.C.  
PHONE : +886 (2) 5221304-8  
FAX : +886 (2) 5630415

#### MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.  
NO. 102 JALAN SS 21/35, DAMANSARA  
UTAMA, 47400 PETALING JAYA  
SELANGOR DARUL EHSAN,  
MALAYSIA  
PHONE : +60 3-7184666  
FAX : +60 3-7173828

#### SINGAPORE

FORWARD MARKETING (SINGAPORE) PTE. LTD.  
29, LENG KEE ROAD  
SINGAPORE 159099,  
PHONE : +65 475-4555  
FAX : +65 475-8623

#### JAPAN-Technical

MARANTZ JAPN INC.  
35-1, 7-chome, Sagamiono  
Sagamihara-shi, Kanagawa  
Japan  
PHONE : +81 427 48 2181  
FAX : +81 427 48 0889

#### 日本マランツ株式会社

本社 〒228 神奈川県相模原市相模大野7丁目35番1号  
営業本部 〒150 東京都渋谷区恵比寿南1丁目11番9号

### SHOCK, FIRE HAZARD SERVICE TEST:

**CAUTION:** After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins ( with unit NOT connected to AC mains and its Power switch ON ), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard NO.1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

960514KI

## 1. TECHNICAL SPECIFICATIONS

### Power output

RMS 8 ohms / 4 ohms .....	50 / 70W
DIN 8 ohms / 4 ohms .....	55 / 75W

### IHF dynamic power

8 ohms / 4 ohms .....	80 / 110W
THD at 8 ohms rated output .....	0.008 %
Intermodulation distortion .....	0.008 %
Damping factor .....	100

### Magnetic cartridge input

Input sensitivity impedance .....	2.5 mV / 47 k ohm
Accuracy of frequency response to IEC RIAA .....	0.5 dB
Signal to noise ratio ( IHF A weighted ) .....	87 dB

### Tuner / CD / Aux / Tape inputs

Input sensitivity impedance .....	150 mV / 33 k ohm
Signal to noise ratio ( A weighted ) .....	97 dB
Frequency response ( -3 dB limits ) .....	5 Hz - 70 kHz
Channel separation ( 1 kHz / 10 kHz ) .....	> 85 dB / 65 dB

### General

#### Power Requirements

/ 12, / 15 versions .....	230 V AC, 50 Hz
/ 11 version .....	110 / 120 / 220 / 240 V AC, 50 / 60 Hz
/ F version .....	100 V AC, 50 / 60 Hz

#### Dimensions ( MAX )

Width .....	439 mm
Height .....	138 mm
Depth .....	343 mm

#### Weight

Unit alone .....	6.7 kg
------------------	--------

Specifications subject to change without prior notice.

## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
ACVTVM	Voltage measurements ( AC )
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DCVTVM	Voltage measurements ( DC )
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

### 3. IDLING CURRENT ADJUSTMENT

- Before switching the power ON, set the Master Volume control to the minimum position and the Balance to the center positions. Also set semi-fixed resistors R755 ( L CH ) and R756 ( R CH ) on PCB P701 to the center positions.
- Each of the cement resistors R767 ( L CH ) and R768 ( R CH ) on the PCB P701 is provided with three test points. Connect a digital voltmeter, set for the DC voltage input, to the test points at the two extremities of the three test points of R767 or R768.
- After the setup above, switch the power ON and adjust semi-fixed resistor R755 ( L CH ) or R756 ( R CH ) on PCB P701 according to the digital voltmeter reading. The target setting value is 14 mV ( 38.9mA ) for both the L CH and R CH.

Please refer to the table below.

Elapsed time after power ON	Idling current setting value
30 sec. - 1 min.	5 mV
1 min. - 2 min.	8 mV
2 min. - 4 min.	10.5 mV
More than 6 min.	14 mV

#### Note on Safety :

Symbol **▲** Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol **▲** . Any other component substitution ( other than original type ), may increase risk of fire or electrical shock hazard.

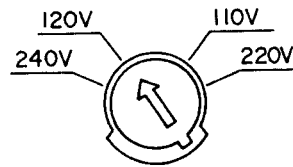
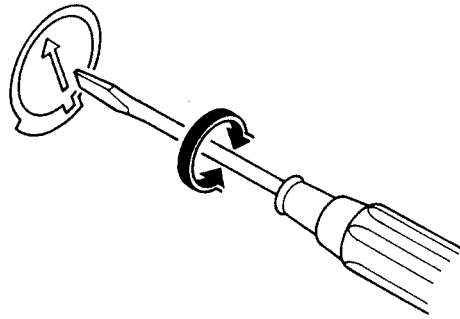
### 4. VOLTAGE CONVERSION

#### • /11B VERSION MODEL ONLY

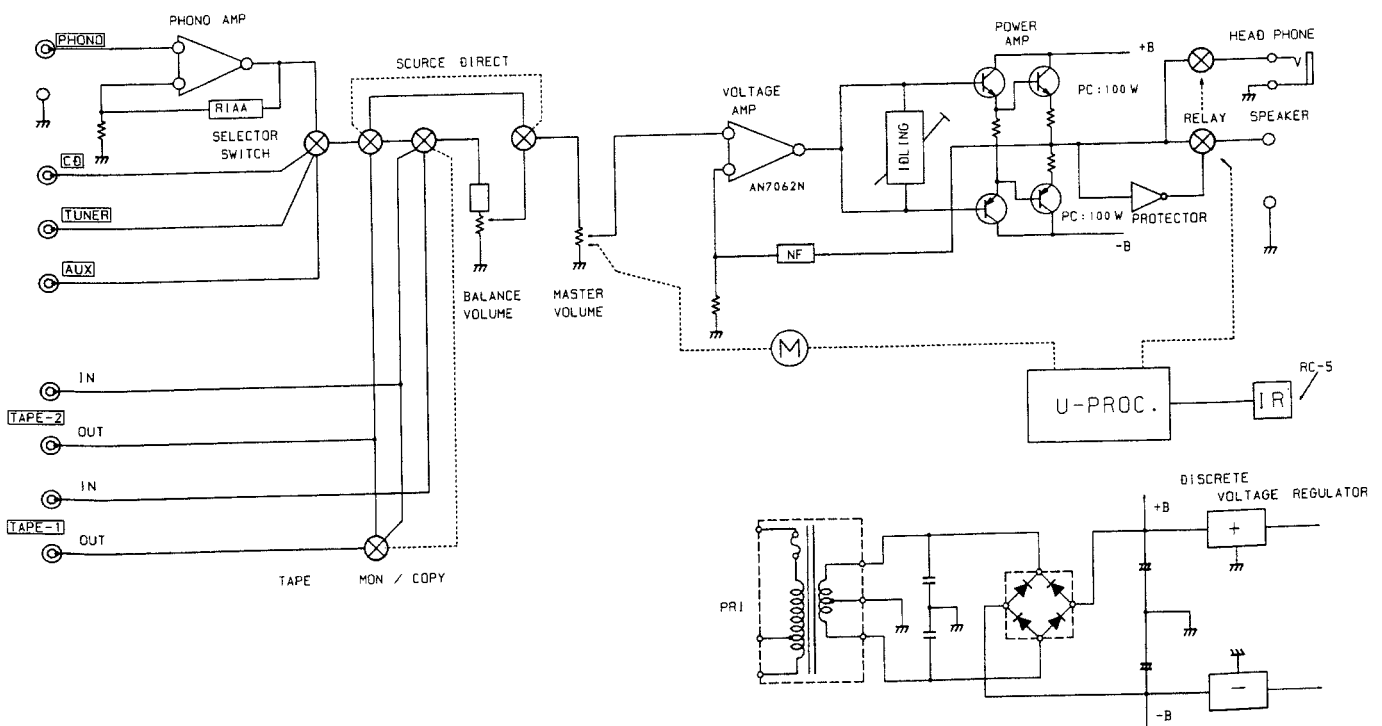
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

#### VOLTAGE SELECTOR

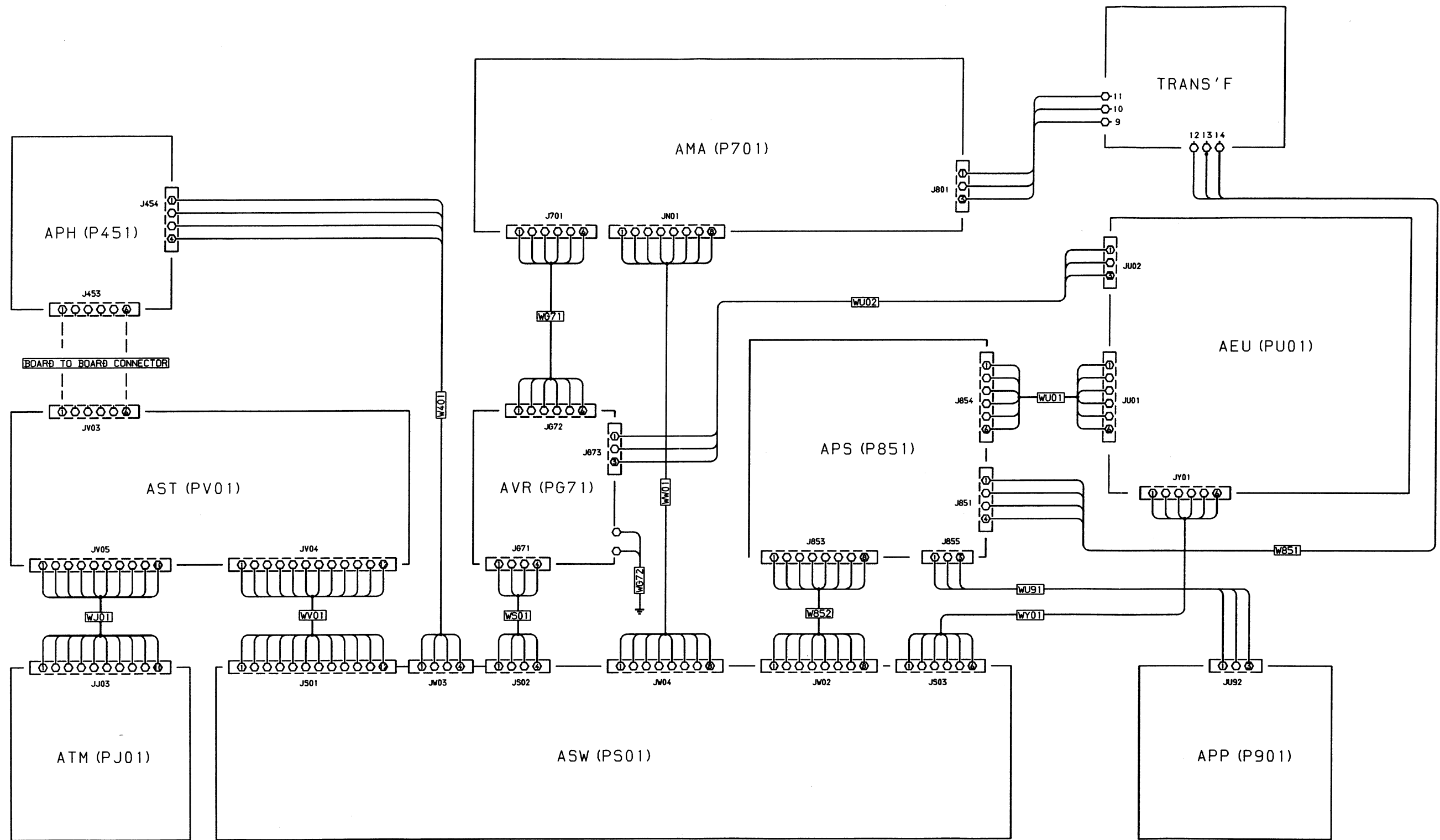
**CAUTION**  
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



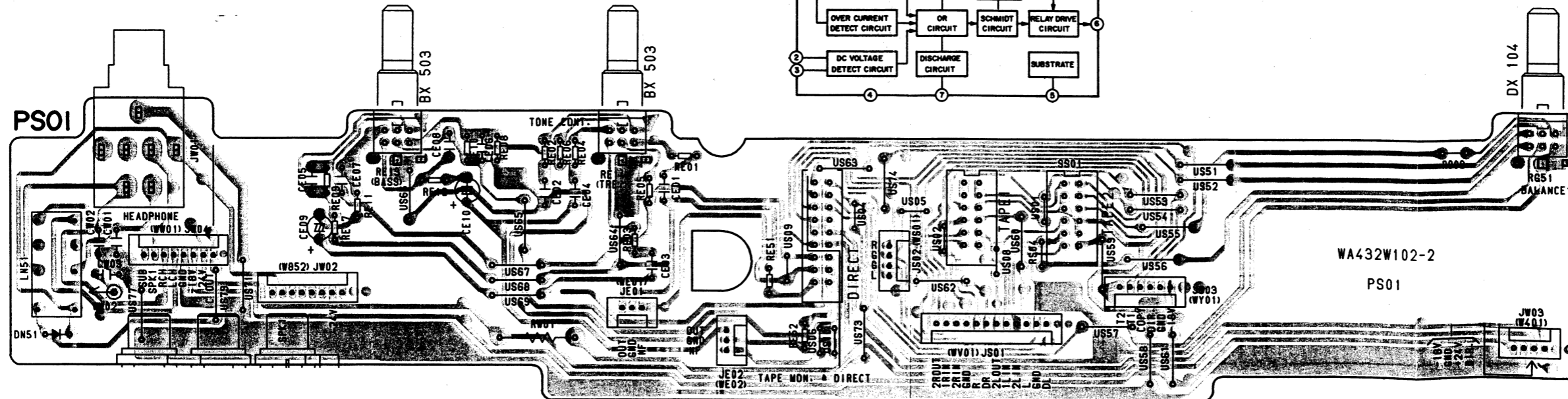
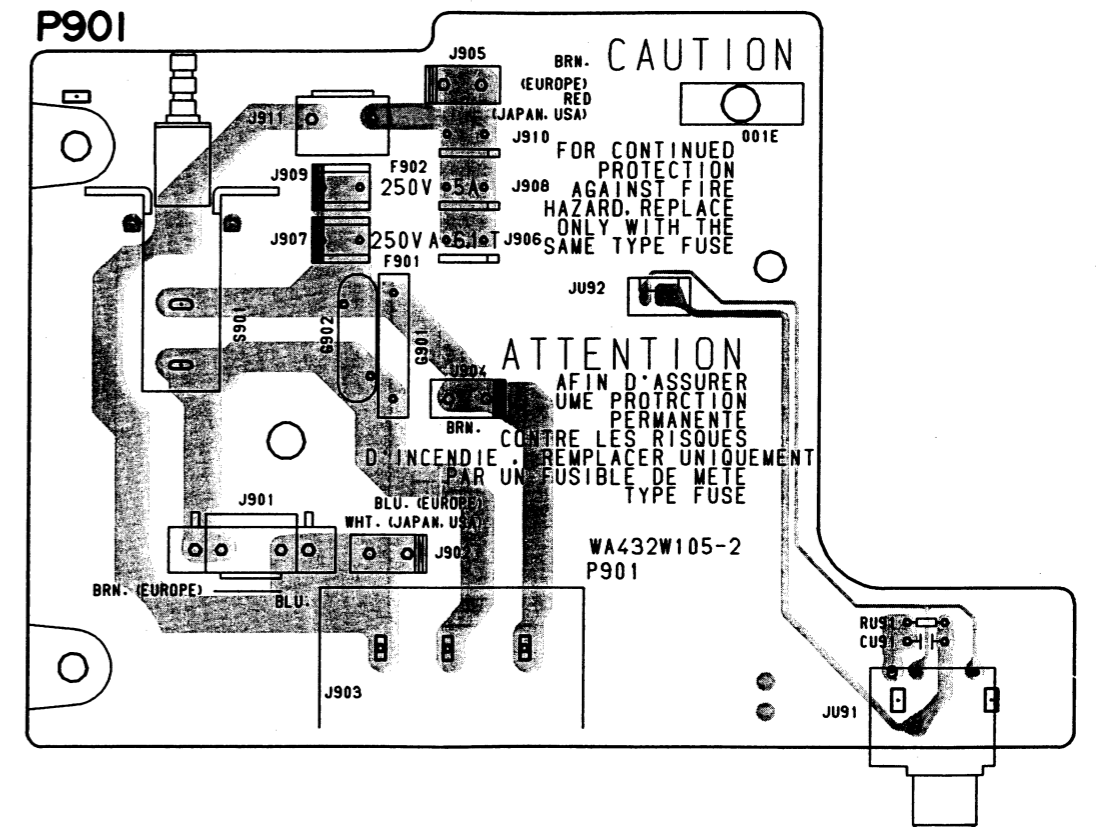
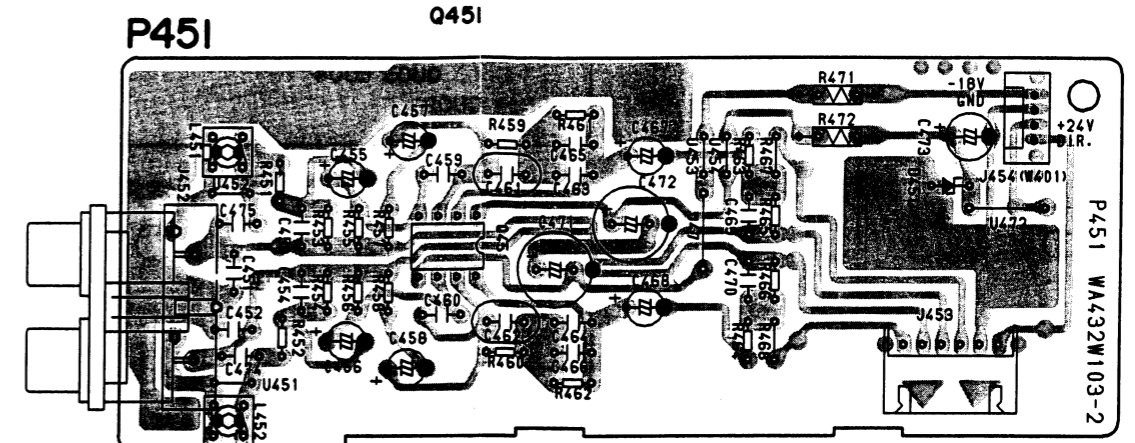
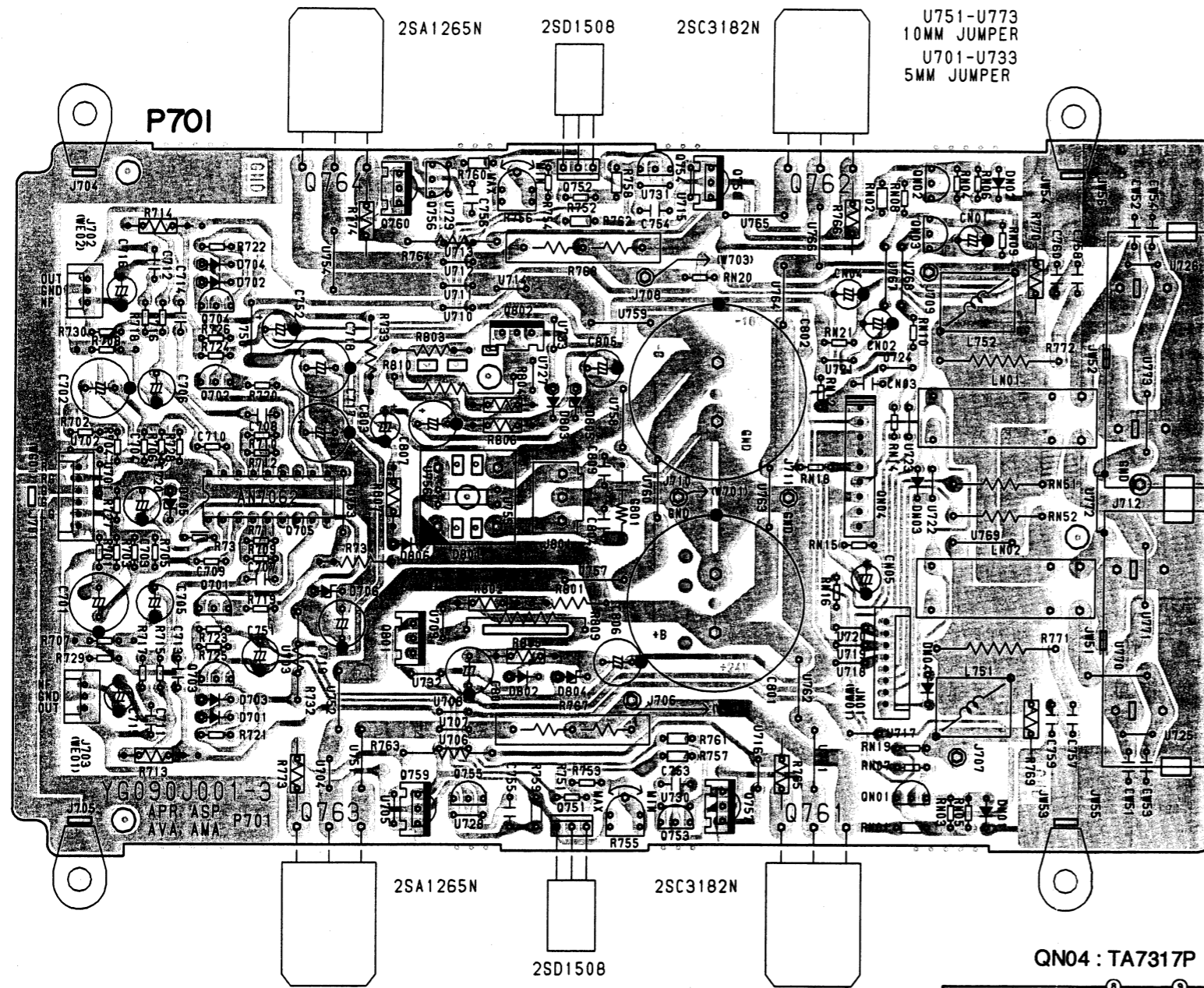
### 5. BLOCK DIAGRAM

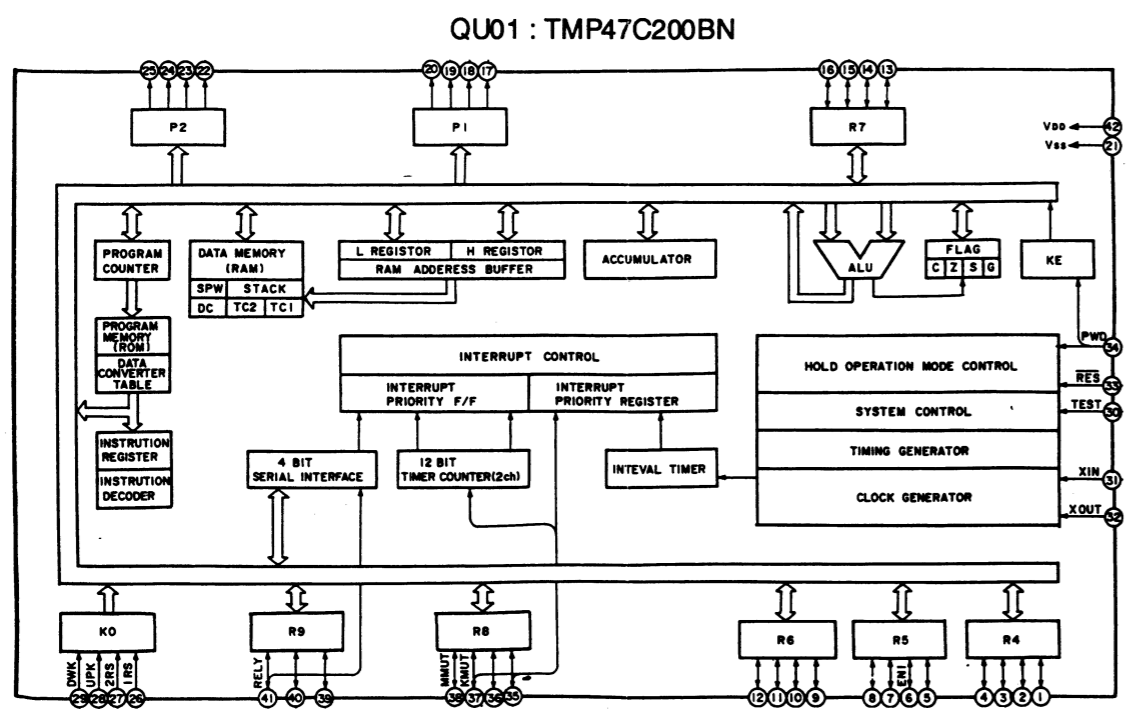
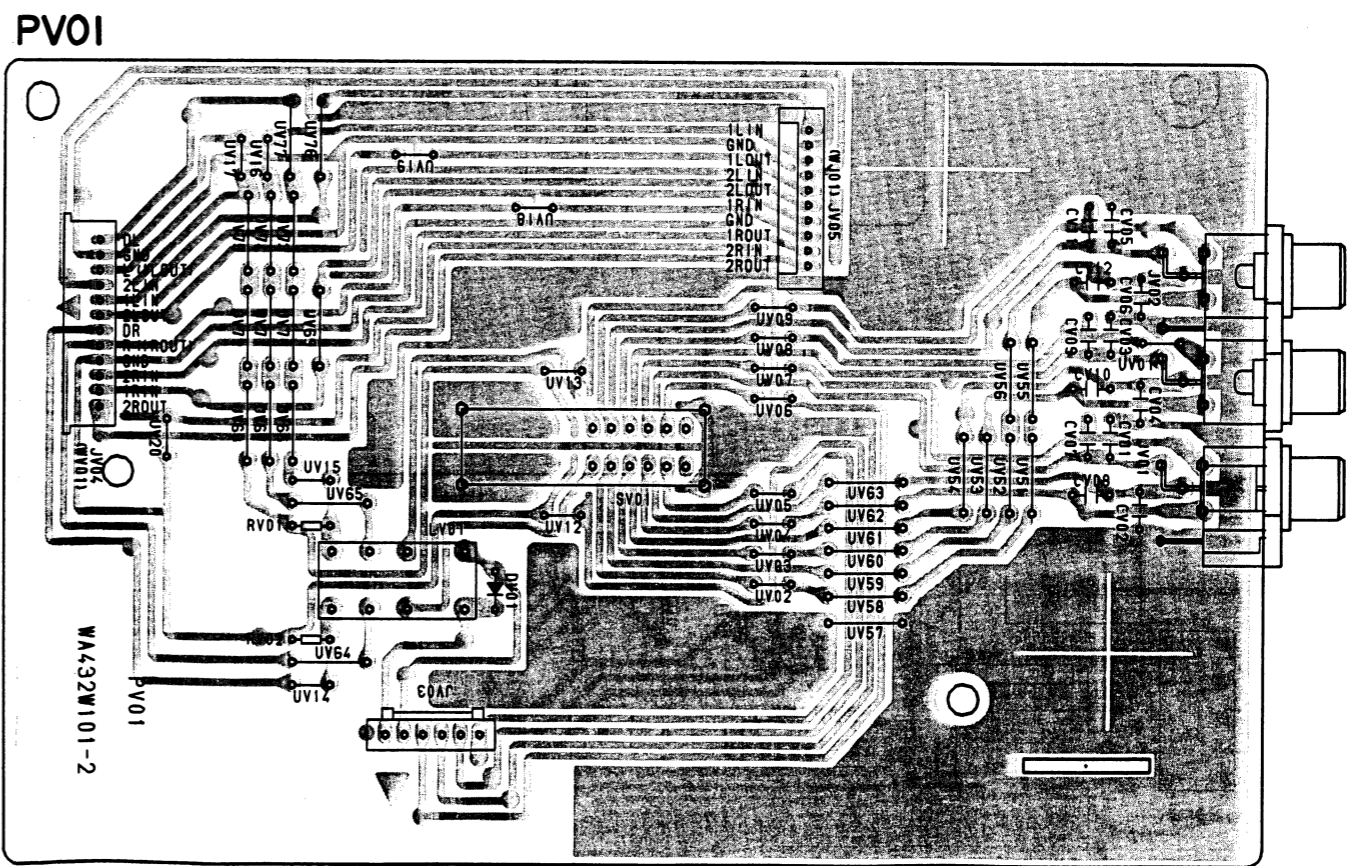
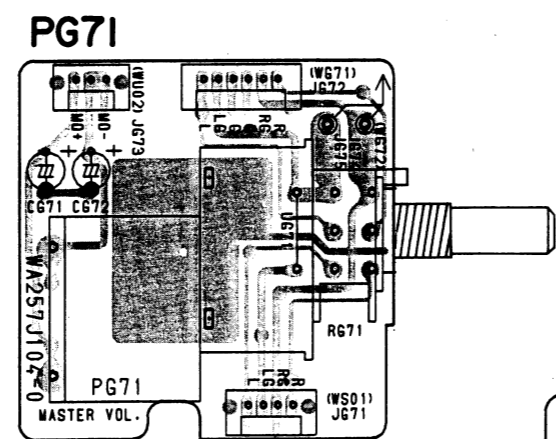
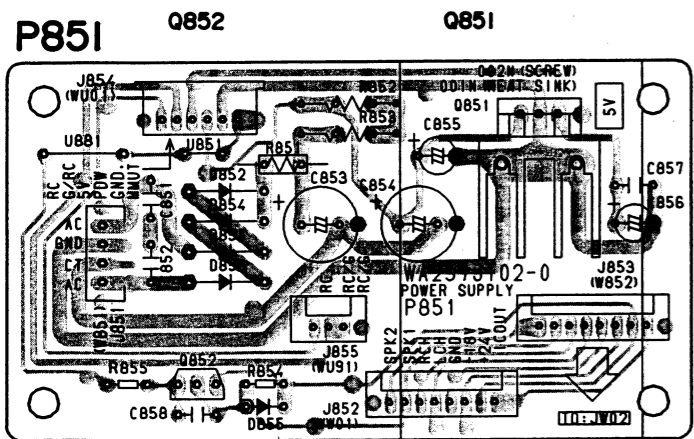
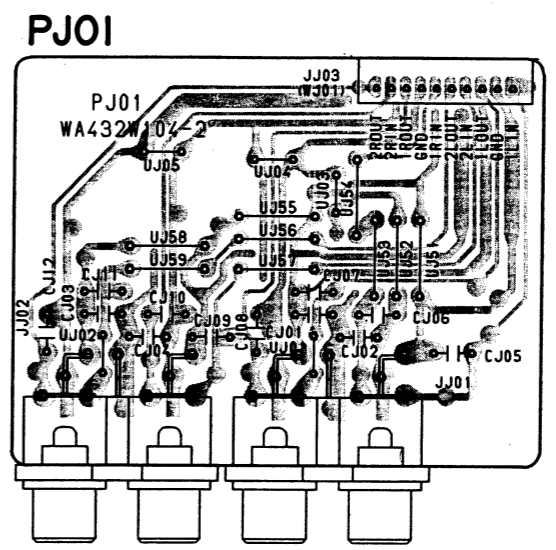
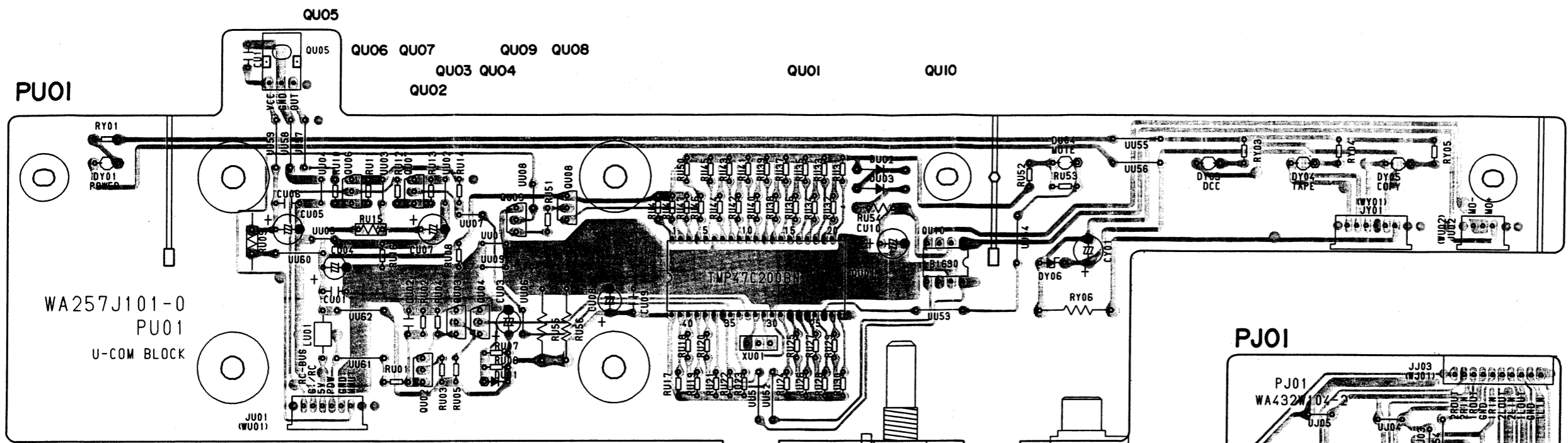


6. WIRING DIAGRAM

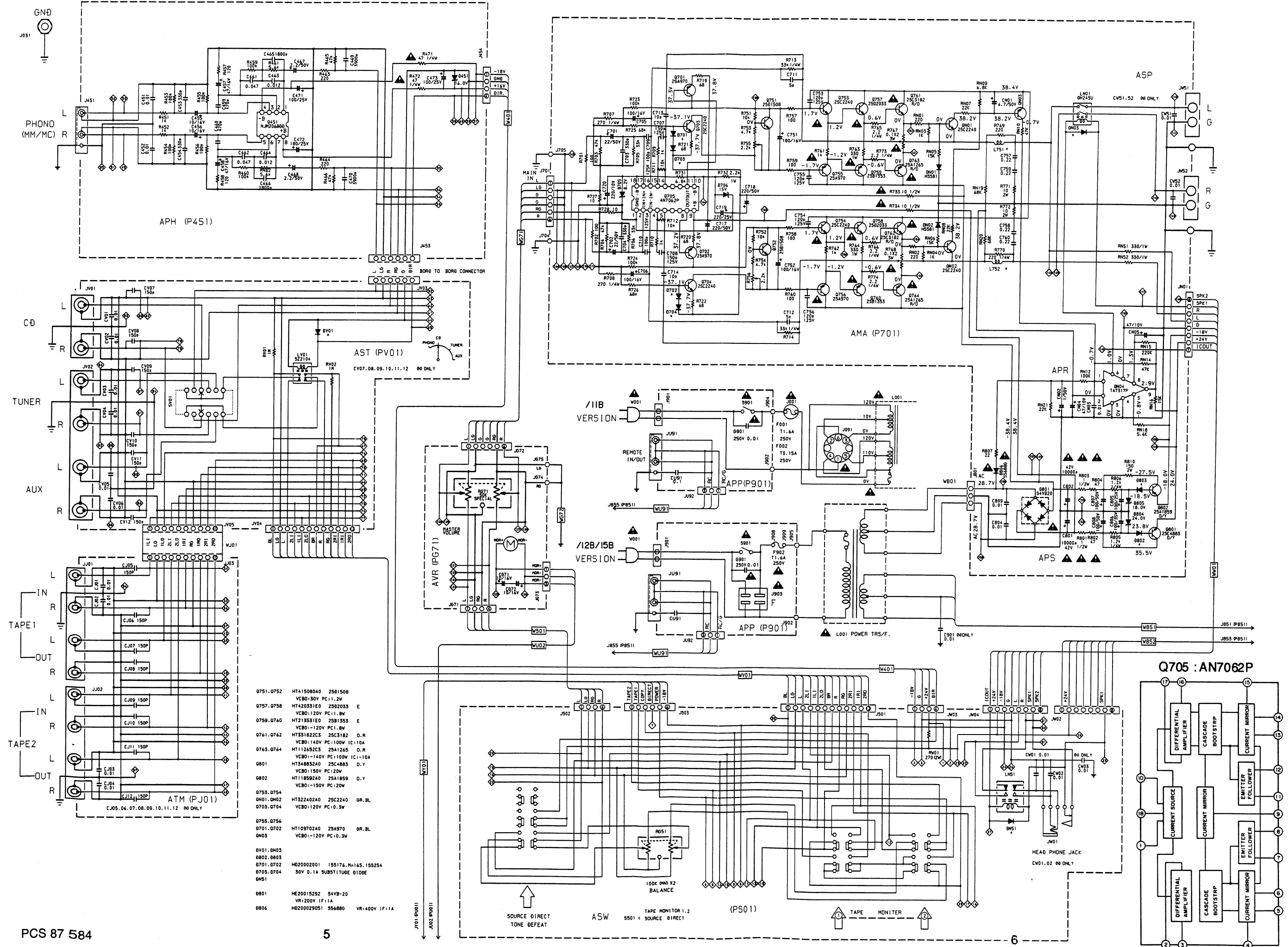


Q701 Q704 Q705 Q764 Q760 Q756 Q802 Q752 Q754 Q758 Q762 QN02 QN03  
 Q763 Q801 Q759 Q755 Q751 Q753 Q757 Q761 QN04 QN01



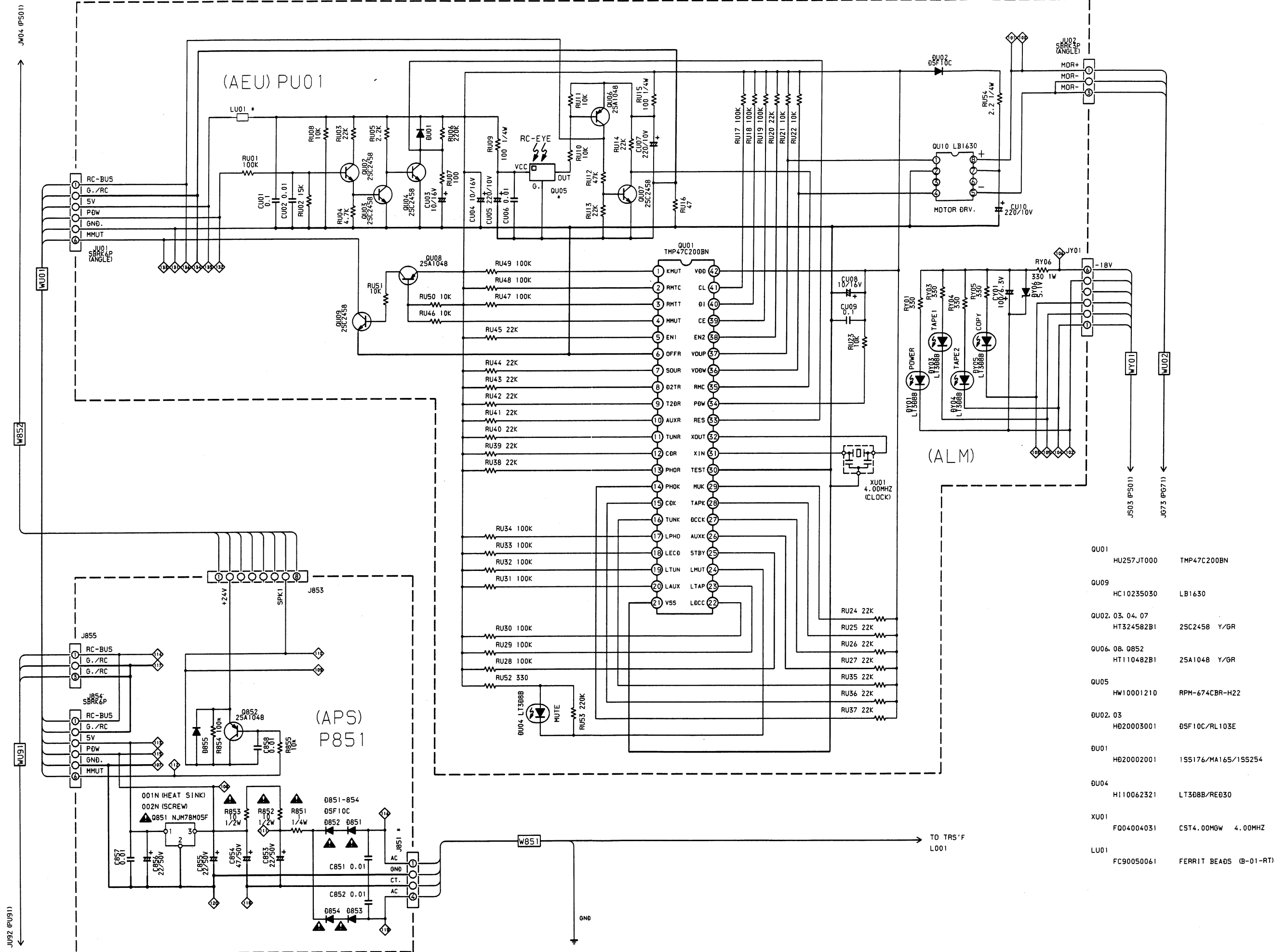


7. SCHEMATIC DIAGRAM AND PARTS LOCATION ( Pattern side )



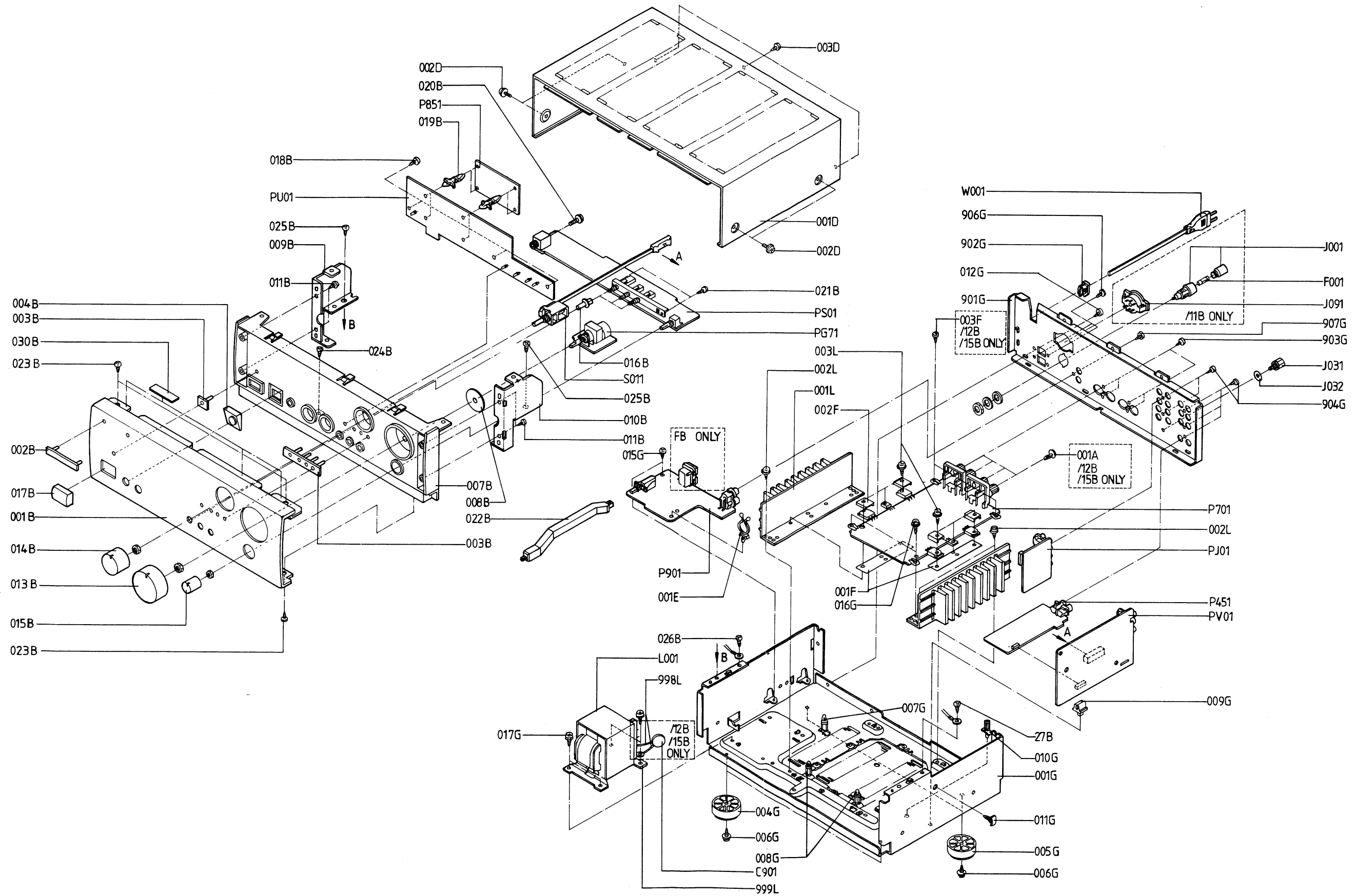
0751-0752	HT415080A0	2501508	
	VCBO:30V	PC:1.2W	
0757-0758	HT420331E0	2502033	E
	VCBO:120V	PC:1.8W	
0759-0760	HT213531E0	2581353	E
	VCBO:-120V	PC:1.8W	
0761-0762	HT331822C3	25C3182	O.R
	VCBO:140V	PC:100W	IC:10A
0763-0764	HT112652C3	25A1265	O.R
	VCBO:-140V	PC:100W	IC:10A
0801	HT348832A0	25C4883	O.Y
	VCBO:150V	PC:20W	
0802	HT118592A0	25A1859	O.Y
	VCBO:-150V	PC:20W	
0753-0754	HT322402A0	25C2240	GR.BL
0N01-0N02	HT322402A0	25C2240	GR.BL
0703-0704	VCBO:120V	PC:0.3W	
0755-0756	HT109702A0	25A970	GR.BL
0701-0702	VCBO:-120V	PC:0.3W	
0N03			
0V01-0N03			
0802-0803			
0701-0702	HD20002001	15S176,MA165,15S254	
0703-0704	30V 0.1A	SUBSTITUTION DIODE	
0N01			
0801	HE20015292	54VB-20	
	VR:200V	IF:1A	
0806	HD200029051	556886	VR:400V IF:1A





QU01	HU257JT000	TMP47C200BN
QU09	HC10235030	LB1630
QU02, 03, 04, 07	HT324582B1	25C2458 Y/GR
QU06, 08, 0852	HT110482B1	25A1048 Y/GR
QU05	HW10001210	RPM-674CBR-H22
QU02, 03	HD20003001	95F10C/RL103E
QU01	HD20002001	15S176/MA165/15S254
QU04	HI10062321	LT308B/REB30
XU01	FQ04004031	CST4.00MGW 4.00MHZ
LU01	FC90050061	FERRIT BEADS (B-01-RT)

8. EXPLODED VIEW AND PARTS LIST



POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
001B		4822 459 04257	FRONT AL PANEL (PM-66SE)	432W248010
002B		4822 454 12948	MARANTZ BADGE (BL)	185J251010
003B			LENS FOR LED	432W355010
004B		4822 381 11561	IR LENS	185J355010
007B			FRONT MOULD CHASSIS	432W105012
013B		4822 410 10559	VOLUME KNOB BLACK D=50	063J154080
014B		4822 410 10117	SELECTOR KNOB	064J154080
015B		4822 410 10561	KNOB	185J154010
016B		4822 410 60343	PUSH BUTTON BLACK	058J270030
017B		4822 462 72053	POWER BUTTON (BL)	285K270010
022B		4822 402 10517	LINK	185J121010
004G		4822 462 42129	LEG (GOLD HOT STAMP)	183J057010
005G		4822 462 42131	LEG (GOLD HOT STAMP) FOR REAR	183J057110
▲F001	/11B	4822 070 31602	FUSE T1.60A IEC	QP07031602
▲F002	/11B	4822 070 33152	FUSE T3.15A IEC	FS10315850
▲J001	/11B	4822 256 30233	HOLDER FOR FUSES 5.2x10MM	YJ08000290
J031		4822 502 13921	SCREW PHONO GND	YL03010310
▲J091	/11B		SELECTOR VOLTAGE	BY05060090
▲L001	F		TRANSFORMER E176/45	*TS000570R
	/11B	4822 146 21743	TRANSFORMER E176/45 OVS	TS17650020
	/12B/15B	4822 146 21744	TRANSFORMER E176/45 IEC	TS17650010
▲W001	F		MAINS CORD F/E	YC02000770
	/11B/12B	4822 321 10781	MAINS CORD IEC	YC01800440
	/15B	4822 321 10941	MAINS CORD UK 5A	YC02000700
001T	F		IFU PM-66SE (F)	432W851110
	/11B /12B/15B	4822 736 14585	IFU PM-66SE (N)	432W851310
Z001		4822 219 10067	REMOTO UNIT RC-66PM	ZK432W0010



POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
			<b>PG71-MASTER VOLUME CIRCUIT BOARD</b>	
CG71		4822 124 22571	ELECT CAP. 10 $\mu$ F 50V	OA10605020
CG72		4822 124 22571	ELECT CAP. 10 $\mu$ F 50V	OA10605020
RG71		4822 101 30885	50K $\Omega$ MOTOR VARIABLE RES.	RY05030220
			<b>PJ01-TAPE IN / OUT CIRCUIT BOARD</b>	
JJ01		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690
JJ02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690
			<b>PS01-TAPE MONI/TONE OUT./SPK. SW CIRCUIT BOARD</b>	
RG51		4822 100 30138	100K $\Omega$ (MN), VARIABLE RES.	RM01041310
RW01		4822 116 60455	270 $\Omega$ $\pm$ 5% 2W, METAL RES.	NK05271020
DN51		4822 130 32364	DIODE 1SS254	HD20022210
JW01		4822 267 31479	SOCKET HEADPHONE	QP26731479
LN51		4822 280 20501	RELAY 2P 24V 2A MR62-24SR	LY20240410
SS01		4822 276 12956	PUSH SWITCH SPUP30	SP06030240
			<b>PU01-TAPE INDICATOR/ <math>\mu</math>-COM CIRCUIT BOARD</b>	
			<b>PU01-CAPACITORS</b>	
CU01		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CU03		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
CU04		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
CU05		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020
CU07		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020
CU08		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
CU09		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CU10		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020
CU91		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
			<b>PU01-RESISTORS</b>	
RU09		4822 117 12425	100 $\Omega$ $\pm$ 5% 1/4W	GG05101140
RU15		4822 117 12425	100 $\Omega$ $\pm$ 5% 1/4W	GG05101140
▲RU54		4822 116 60309	2.2 $\Omega$ $\pm$ 5% 1/4W, FUSIBLE	NH05022140
RY06		4822 116 60494	330 $\Omega$ $\pm$ 5% 2W, METAL	NK05331020
			<b>PU01-SEMICONDUCTORS</b>	
DU01		4822 130 32362	DIODE 1SS254	HD20022210
DU02		4822 130 32508	DIODE RL103E	HD20003000
DU04		4822 130 80326	LED LT3D8D (RED)	HI10062320
DY01		4822 130 80326	LED LT3D8D (RED)	HI10062320
DY03		4822 130 80326	LED LT3D8D (RED)	HI10062320
DY04		4822 130 80326	LED LT3D8D (RED)	HI10062320
DY05		4822 130 80326	LED LT3D8D (RED)	HI10062320
DY06		4822 130 80317	ZENER MTZJ5.1B	HD30511000
QU01		4822 209 90571	$\mu$ -PRO TMP47C200BN-H347	HU257JT000
QU02		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0
QU03		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0
QU04		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0
QU05		4822 130 83519	IR RECEIVER RPM674CBR-H22	HW10001210
QU06		4822 130 42372	TRS. 2SA1048 (Y)	HT110481Y0
QU07		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0
QU09		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0
QU10		4822 209 73287	IC LB1630	HC10235030

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
			<b>PU01-MISCELLANEOUS</b>	
LU01		4822 158 60605	FERRITE BEAD	FC90050060
XU01		4822 242 72527	CERAMIC RESONATOR 4.000MHZ	FQ04004030
			<b>PV01-INPUT SELECTOR CIRCUIT BOARD</b>	
DV01		4822 130 32362	DIODE 1SS254	HD20022210
JV01		4822 266 30282	TERMINAL, 2P RCA JACK	YT02020610
JV02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690
LV01		4822 280 20501	RELAY MR62-24SR	LY20240410
SV01		4822 277 21412	SLIDE SWITCH, SELECTOR	SS02040010
			<b>P451-PHONO AMP. CIRCUIT BOARD</b>	
			<b>P451-CAPACITORS</b>	
C455		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
C456		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
C457		4822 124 41539	ELECT 47 $\mu$ F 16V	OA47601620
C458		4822 124 41539	ELECT 47 $\mu$ F 16V	OA47601620
C467		4822 124 40244	ELECT 2.2 $\mu$ F 50V	OA22505020
C468		4822 124 40244	ELECT 2.2 $\mu$ F 50V	OA22505020
C469		4822 121 70198	FILM 3900PF $\pm$ 10% 100V	OF15392530
C469		4822 121 70198	FILM 3900PF $\pm$ 10% 100V	OF15392530
C471		4822 124 22238	ELECT 100 $\mu$ F 25V	OA10702550
C472		4822 124 22238	ELECT 100 $\mu$ F 25V	OA10702550
C473		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
			<b>P451-RESISTORS</b>	
▲R471		4822 111 90731	47 $\Omega$ $\pm$ 2% 1/4W, FUSIBLE	NF02470140
▲R472		4822 052 10479	47 $\Omega$ $\pm$ 5% 1/4W	GG05470140
			<b>P451-SEMICONDUCTORS</b>	
D451		4822 130 34268	ZENER BZX79-C16	QP13034268
Q451		4822 209 73064	IC NJM2068D	HC10053090
			<b>P451-MISCELLANEOUS</b>	
J452		4822 265 20355	TERMINAL, 2P RCA JACK	YT02020650
			<b>P701-POWER AMP. CIRCUIT BOARD</b>	
			<b>P701-CAPACITORS</b>	
CN01		4822 124 22274	ELECT 4.7 $\mu$ F 50V	OA47505020
CN02		4822 124 41543	ELECT 1 $\mu$ F 50V	OA10505020
CN04		4822 124 22698	ELECT 47 $\mu$ F 25V	OA47602520
CN05		4822 124 23417	ELECT 33 $\mu$ F 10V	OA33601020
C701		4822 124 80123	ELECT 220 $\mu$ F 16V	OA22701640
C702		4822 124 80123	ELECT 220 $\mu$ F 16V	OA22701640
C705		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
C706		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
C711		4822 123 30093	MICA 5PF $\pm$ 0.5PF 500V	DF31050520
C712		4822 123 30093	MICA 5PF $\pm$ 0.5PF 500V	DF31050520
C713		4822 123 30088	MICA 10PF $\pm$ 0.5PF 250V	DF31100520
C714		4822 123 30088	MICA 10PF $\pm$ 0.5PF 250V	DF31100520
C717		4822 124 90366	ELECT 220 $\mu$ F 50V	OA22705020
C718		4822 124 90366	ELECT 220 $\mu$ F 50V	OA22705020
C719		4822 124 41536	ELECT 220 $\mu$ F 25V	OA22702520
C720		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020
C751		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
C752		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
C753				
f				
C756		4822 130 83519	FILM 120PF $\pm$ 5% 100V	OF15121550

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
▲C801		4822 124 80692	ELECT 1000µF 6V	OB10905610
▲C802		4822 124 80692	ELECT 1000µF 6V	OB10905610
C805		4822 124 80293	ELECT 100µF 25V	OA10702520
C806		4822 124 41536	ELECT 100µF 35V	OA10703520
C807		4822 124 90355	ELECT 100µF 50V	OA10705020
C808		4822 124 90355	ELECT 100µF 50V	OA10705020
			<b>P701-RESISTORS</b>	
RN51		4822 053 10331	330 Ω ±5% 1W	GA05331010
RN52		4822 053 10331	330 Ω ±5% 1W	GA05331010
R713		4822 050 23303	33K Ω ±5% 1/4W	GG05333140
R714		4822 050 23303	33K Ω ±5% 1/4W	GG05333140
R719		4822 050 26809	68 Ω ±5% 1/6W	GG05680160
R722				
R732		4822 117 11859	2.2K Ω ±5% 2W, METAL	NK05222020
R733		4822 116 60313	10 Ω ±5% 1/2W, FUSIBLE	NH05100120
R734		4822 116 60313	10 Ω ±5% 1/2W, FUSIBLE	NH05100120
R755		4822 101 11166	2.2K Ω , TRIMMING	QP10111166
R756		4822 101 11166	2.2K Ω , TRIMMING	QP10111166
R757				
R760		4822 052 10101	100 Ω ±5% 1/6W	GG05101160
R761		4822 052 10102	1K Ω ±5% 1/6W	GG05102160
R762		4822 052 10102	1K Ω ±5% 1/6W	GG05102160
R763		4822 116 60494	330 Ω ±5% 2W, METAL	NK05331020
R764		4822 116 60494	330 Ω ±5% 2W, METAL	NK05331020
R765		4822 116 83963	2.2 Ω ±5% 1/4W	GG05022140
R766		4822 116 83963	2.2 Ω ±5% 1/4W	GG05022140
R767		4822 111 91402	0.1 Ω x2 ±10% 3W	BZ10102010
R768		4822 111 91402	0.1 Ω x2 ±10% 3W	BZ10102010
R769		4822 117 10028	220 Ω ±5% 1/4W	GG05221140
R770		4822 117 10028	220 Ω ±5% 1/4W	GG05221140
R771		4822 116 83353	10 Ω ±5% 3W, METAL	NK05100030
R772		4822 116 83353	10 Ω ±5% 3W, METAL	NK05100030
R773		4822 116 83963	2.2 Ω ±5% 1/4W	GG05022140
R774		4822 116 83963	2.2 Ω ±5% 1/4W	GG05022140
▲R801		4822 116 60306	1 Ω ±5% 1/2W, FUSIBLE	NH05010120
▲R802		4822 111 90731	47 Ω ±2% 1/4W, FUSIBLE	NF02470140
▲R803		4822 116 60306	1 Ω ±5% 1/2W, FUSIBLE	NH05010120
▲R804		4822 111 90731	47 Ω ±2% 1/4W, FUSIBLE	NF02470140
R805		4822 117 12426	1.2K Ω ±5% 1/4W	GG05122140
R806		4822 117 12426	1.2K Ω ±5% 1/4W	GG05122140
▲R807		4822 113 90119	22 Ω ±2% 1/4W, FUSIBLE	NF02220140
R810		4822 117 11858	150 Ω ±5% 3W, METAL	NK05151030
			<b>P701-SEMICONDUCTORS</b>	
DN01		4822 130 80837	DIODE HSS81TD	HD20027010
DN02		4822 130 80837	DIODE HSS81TD	HD20027010
DN03		4822 130 32362	DIODE 1SS254	HD20022210
D701				
D704		4822 130 32362	DIODE 1SS254	HD20022210
D705		4822 130 80273	ZENER MTZJ8.2C	HD30821000
D706		4822 130 80322	ZENER MTZJ16A	HD31501000
▲D801		4822 130 31007	DIODE S4VB-20	HE20015290
D802		4822 130 32362	DIODE 1SS254	HD20022210
D803		4822 130 32362	DIODE 1SS254	HD20022210
D804		4822 130 34398	ZENER BZX79-C24	QP13034398
D805		4822 130 31024	ZENER BZX79-C18	QP13031024
▲D806		4822 130 80839	DIODE S5688G	HD20029050
QN01		4822 130 10445	TRS. 2SC2240	HT322401A0
QN02		4822 130 10445	TRS. 2SC2240	HT322401A0
QN03		4822 130 42949	TRS. 2SA970	HT109701A0
QN04		4822 209 83312	IC TA7317P	HC10042050

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
Q701		4822 130 42949	TRS. 2SA970	HI109701A0
Q702		4822 130 42949	TRS. 2SA970	HI109701A0
Q703		4822 130 10445	TRS. 2SC2240	HT322401A0
Q704		4822 130 10445	TRS. 2SC2240	HT322401A0
Q705		4822 209 83732	IC AN7062P	HC10066020
Q751		4822 130 60526	TRS. 2SD1508	HT415080A0
Q752		4822 130 60526	TRS. 2SD1508	HT415080A0
▲Q753		4822 130 10445	TRS. 2SC2240	HT322401A0
▲Q754		4822 130 10445	TRS. 2SC2240	HT322401A0
▲Q755		4822 130 42949	TRS. 2SA970	HT109701A0
▲Q756		4822 130 42949	TRS. 2SA970	HT109701A0
▲Q757		4822 130 10446	TRS. 2SD2033 (E)	HT420331E0
▲Q758		4822 130 10446	TRS. 2SD2033 (E)	HT420331E0
▲Q759		4822 130 10447	TRS. 2SB1353 (E)	HT213531E0
▲Q760		4822 130 10447	TRS. 2SB1353 (E)	HT213531E0
▲Q761		4822 130 61747	TRS. 2SC3182 (R)	HT331821A0
▲Q762		4822 130 61747	TRS. 2SC3182 (R)	HT331821A0
▲Q763		4822 130 61746	TRS. 2SA1265 (R)	HT112651A0
▲Q764		4822 130 61746	TRS. 2SA1265 (R)	HT112651A0
Q801		4822 130 63312	TRS. 2SC4883 (Y)	HT348832A0
Q802		4822 130 63308	TRS. 2SA1859 (Y)	HT118592A0
			<b>P701-MISCELLANEOUS</b>	
JW51		4822 290 81363	TERMINAL, SPEAKER	YT01020160
JW52		4822 290 81364	TERMINAL, SPEAKER	YT01020170
LN01		4822 280 20197	RELAY, VB24SMBU	LY20240260
L751		4822 157 63085	COIL, SPEAKER	ML08010010
L752		4822 157 63085	COIL, SPEAKER	ML08010010
			<b>P851-µ-COM / POWER</b>	
			<b>SUPPLY CIRCUIT BOARD</b>	
C853		4822 124 90355	ELECT 100µF 50V	OA10705020
C854		4822 124 90355	ELECT 100µF 50V	OA10705020
C855		4822 124 90362	ELECT 22µF 50V	OA22605020
C856		4822 124 90362	ELECT 22µF 50V	OA22605020
			<b>P851-CAPACITORS</b>	
▲R851		4822 117 10158	1 Ω ±5% 1/4W	GG05010140
▲R852		4822 116 60313	10 Ω ±5% 1/2W, FUSIBLE	NH05100120
▲R853		4822 116 60313	10 Ω ±5% 1/2W, FUSIBLE	NH05100120
			<b>P851-SEMICONDUCTORS</b>	
▲D851				
▲D854		4822 130 32508	DIODE RL103E	HD20003000
D855		4822 130 32362	DIODE 1SS254	HD20022210
▲Q851		4822 209 71903	IC NJM78M05FA	HC385050PF
Q852		4822 130 42372	TRS. 2SA1048 (Y)	HT110481Y0
			<b>P901-POWER SWITCH / FUSE</b>	
			<b>CIRCUIT BOARD</b>	
▲G901	/11B	4822 121 43732	CER. CAP. 0.01µF ±20% 250V	DK17103840
	/12B	4822 121 43732	FILM CAP. 0.01µF ±20% 250V	DF77103500
▲F901	F	4822 253 30415	FUSE 0.5A 125V	*FS000320R
▲F902	F	4822 253 30415	FUSE T1.6A 250V	FS10160850
JU91		4822 265 10651	TERMINAL, 2P RCA JACK	YT02020890
▲J903	F		AC OUTLET	*YT000970R
▲S901		4822 276 13772	PUSH SWITCH, POWER	SP01011540