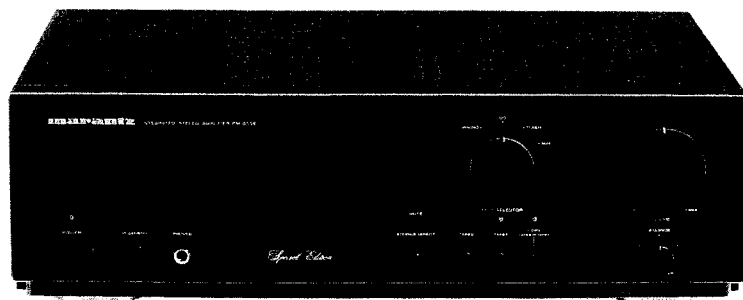


# Service Manual

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



MARA-00638



## TABLE OF CONTENTS

SECTION	PAGE
1. TECHNICAL SPECIFICATIONS .....	1
2. TEST EQUIPMENT REQUIRED FOR SERVICING .....	1
3. IDLING CURRENT ADJUSTMENT .....	2
4. VOLTAGE CONVERSION .....	2
5. BLOCK DIAGRAM .....	2
6. WIRING DIAGRAM .....	3
7. SCHEMATIC DIAGRAM AND PARTS LOCATION ( Pattern side ) .....	5
8. EXPLODED VIEW AND PARTS LIST .....	13
9. ELECTRICAL PARTS LIST .....	16

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 : 416-831-6936

#### 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

MARANTZ EUROPE B.V.  
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5800 JB EINDHOVEN  
THE NETHERLANDS  
PHONE : +31-40-2732241  
FAX : +31-40-2735578

#### AUSTRALIA

MARANTZ AUSTRALIA  
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

- (1) 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.
- (2) 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.
- (3) 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.

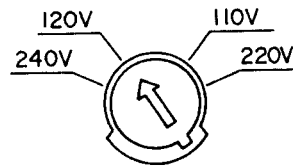
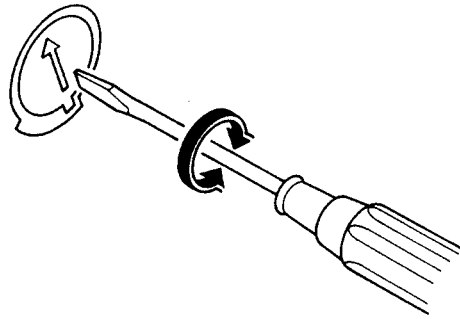
### 4. VOLTAGE CONVERSION

#### • /11B VERSION MODEL ONLY

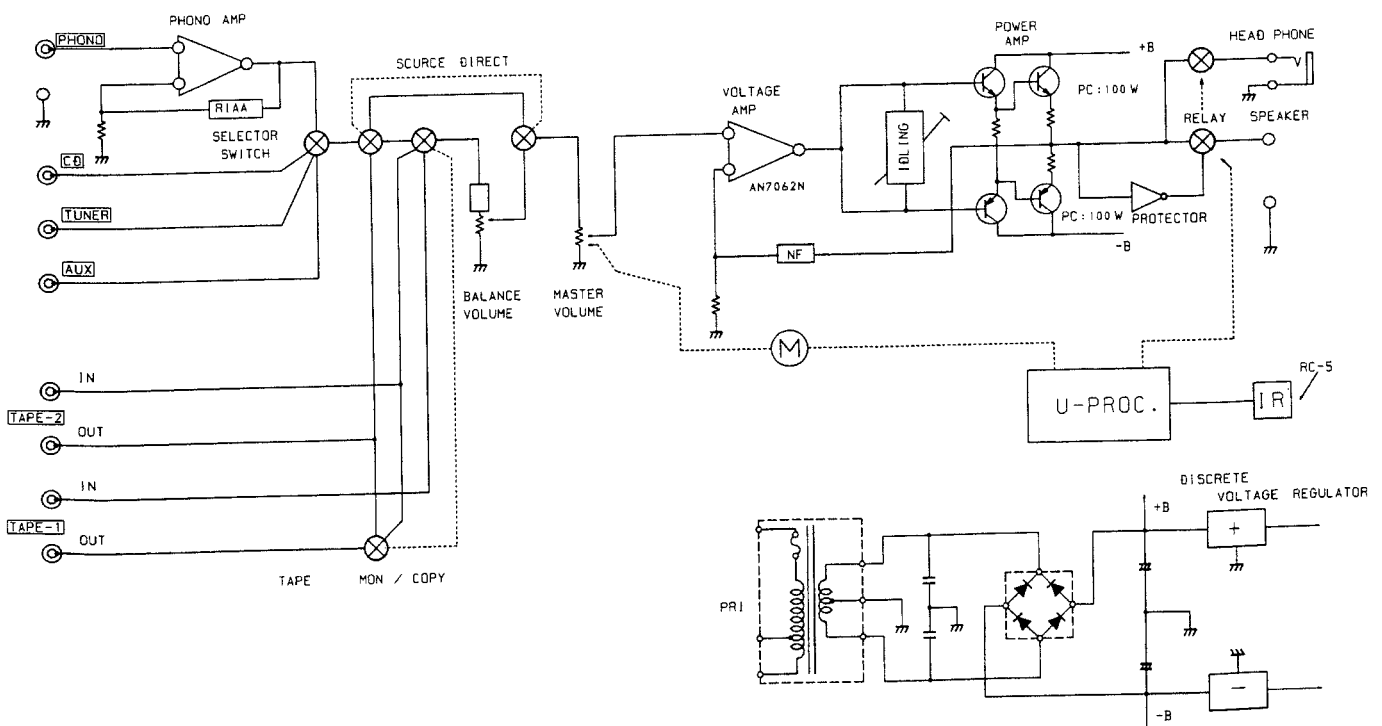
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

#### VOLTAGE SELECTOR

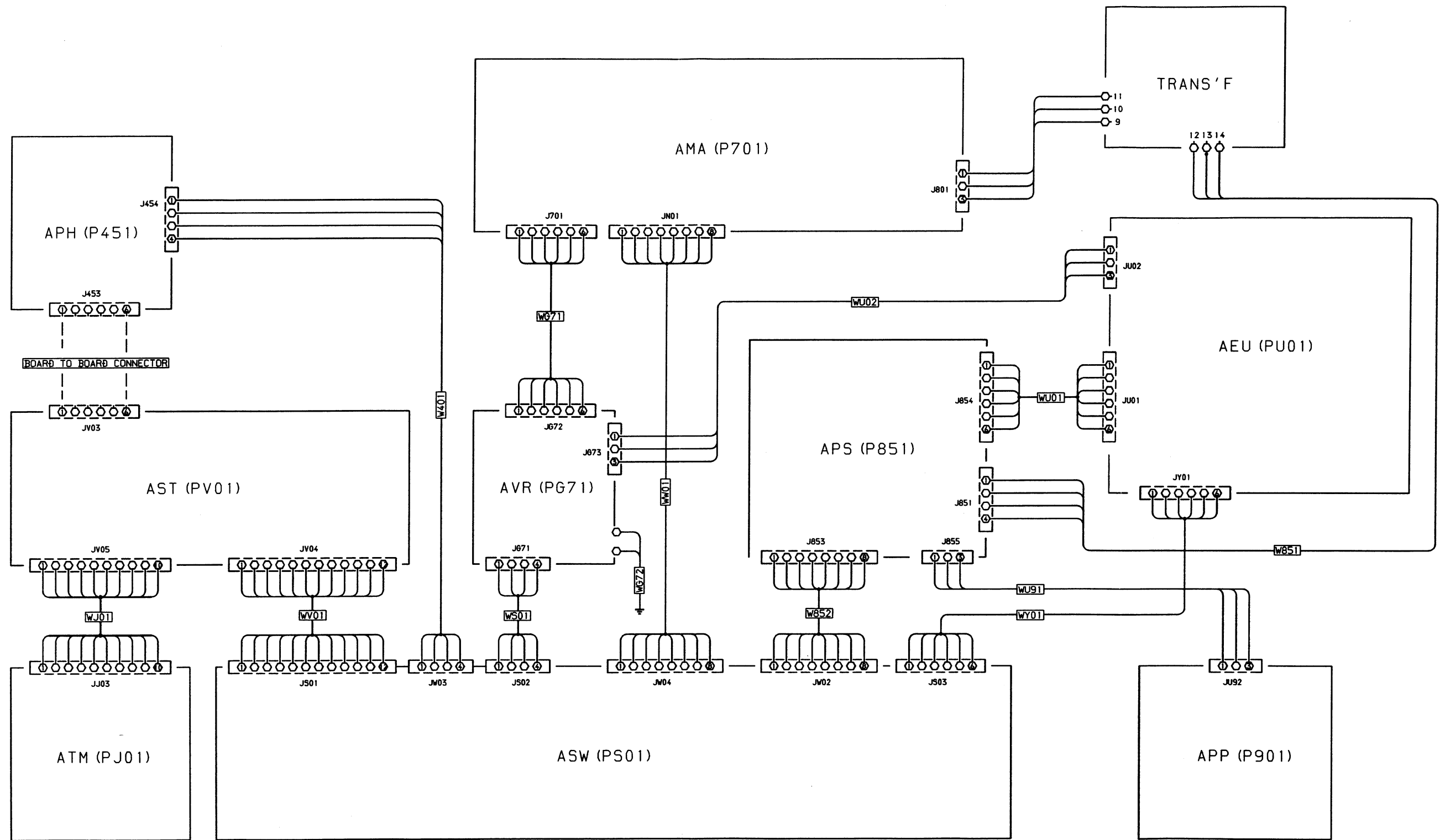
**CAUTION**  
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



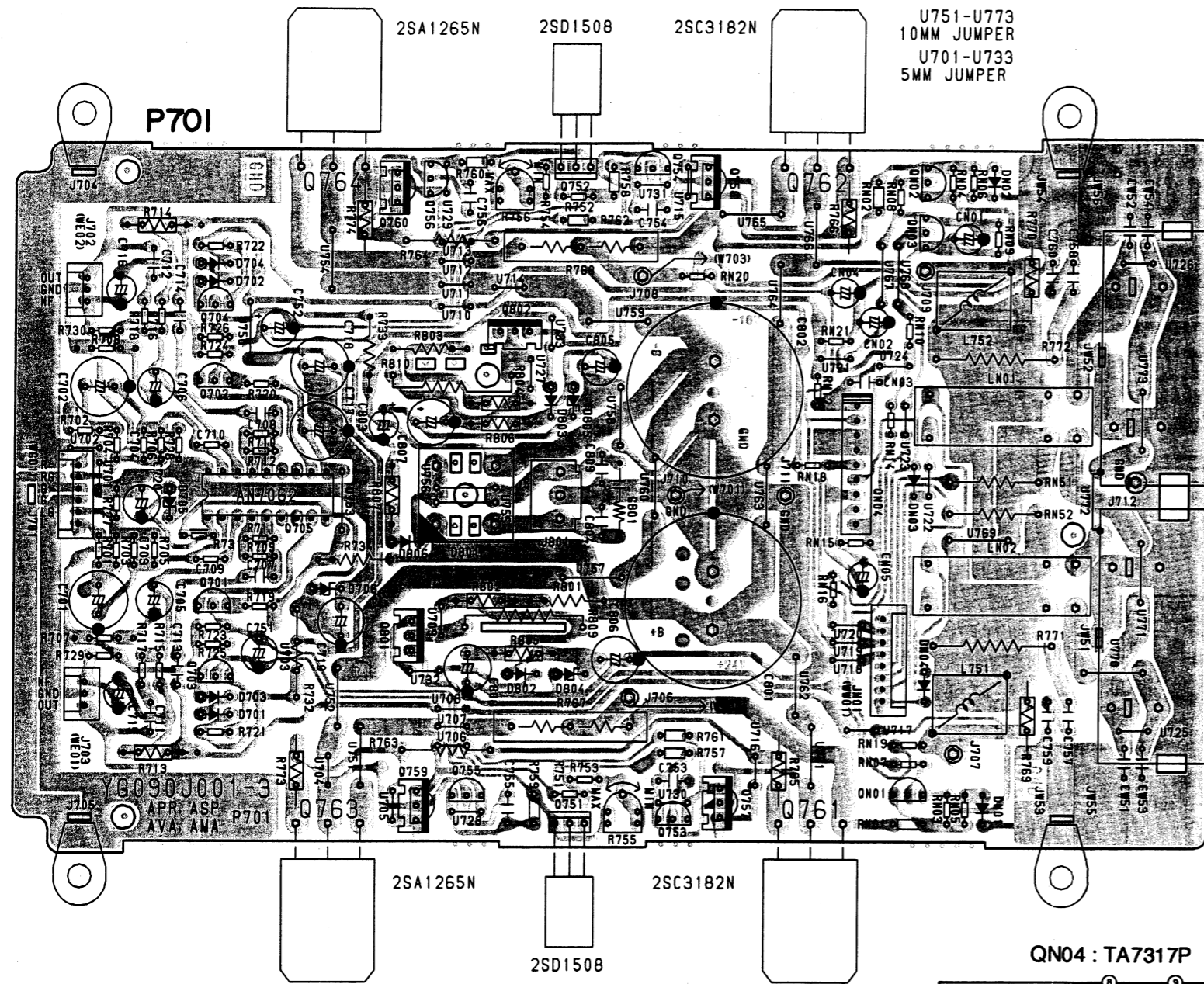
### 5. BLOCK DIAGRAM



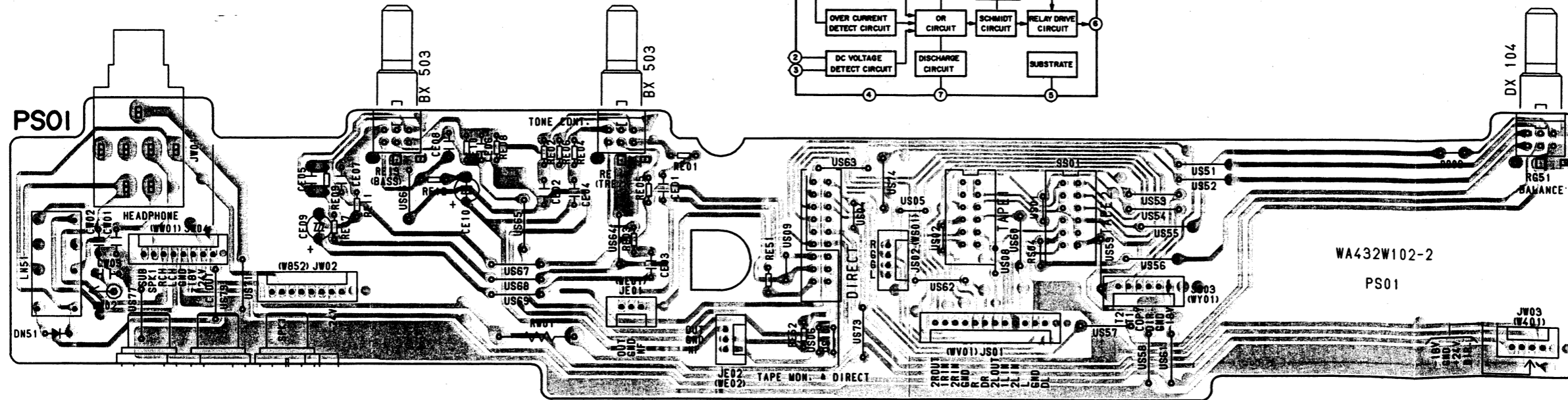
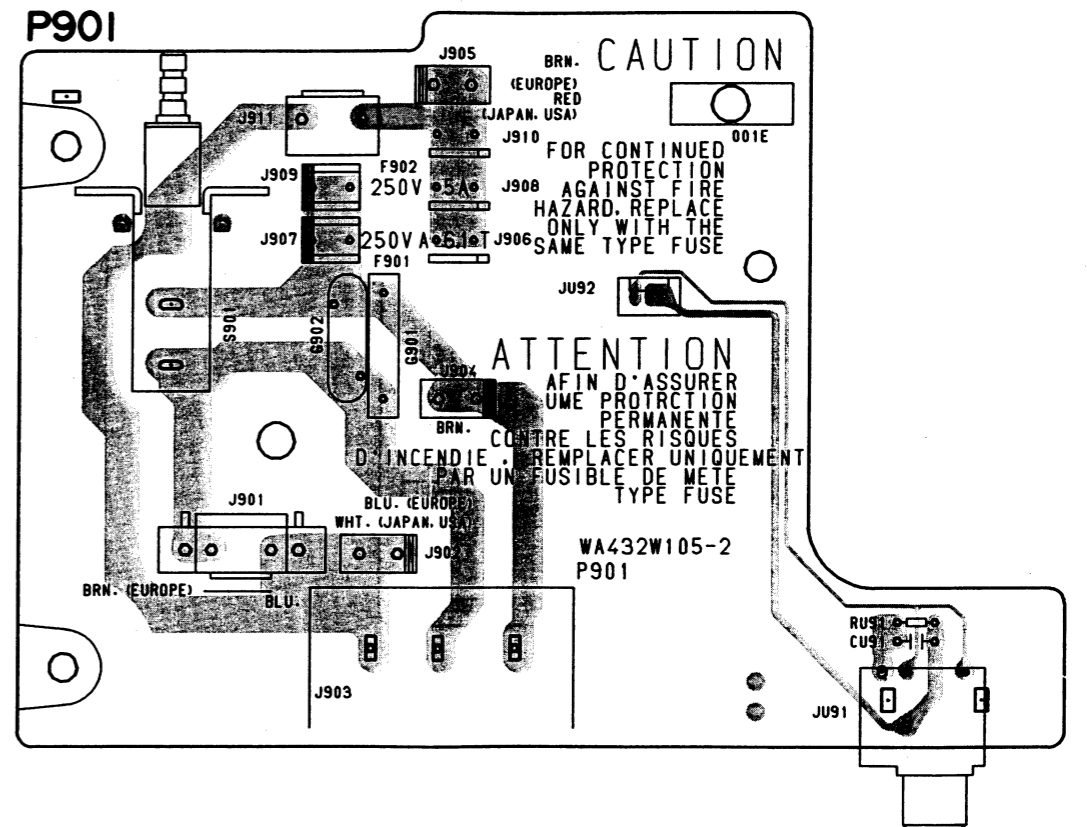
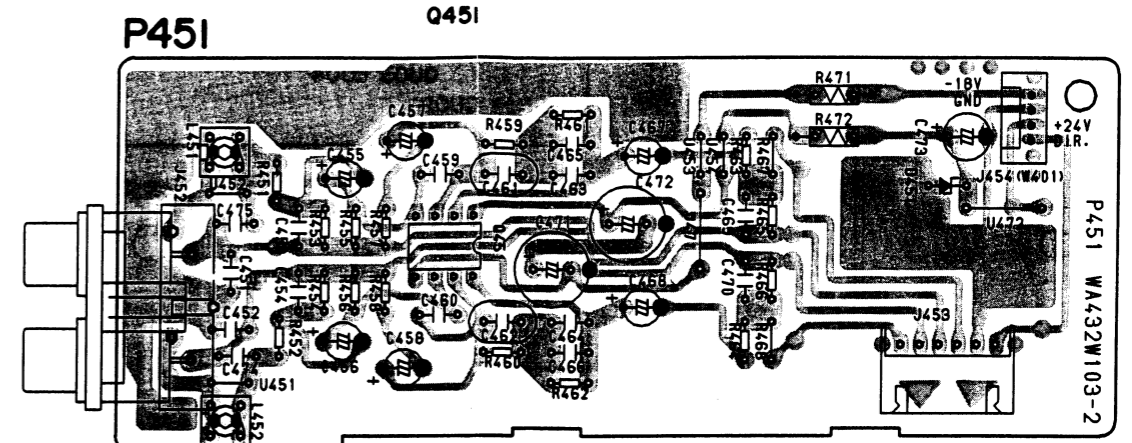
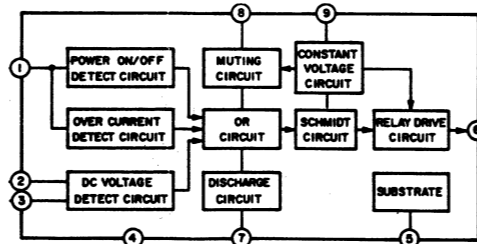
6. WIRING DIAGRAM

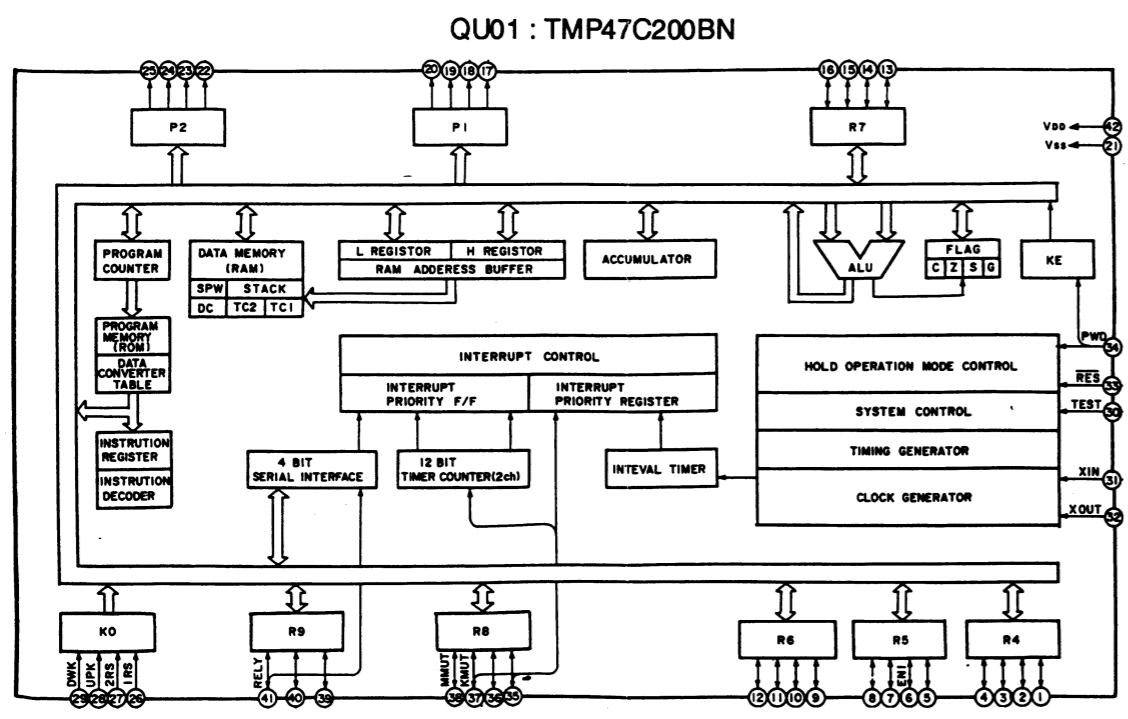
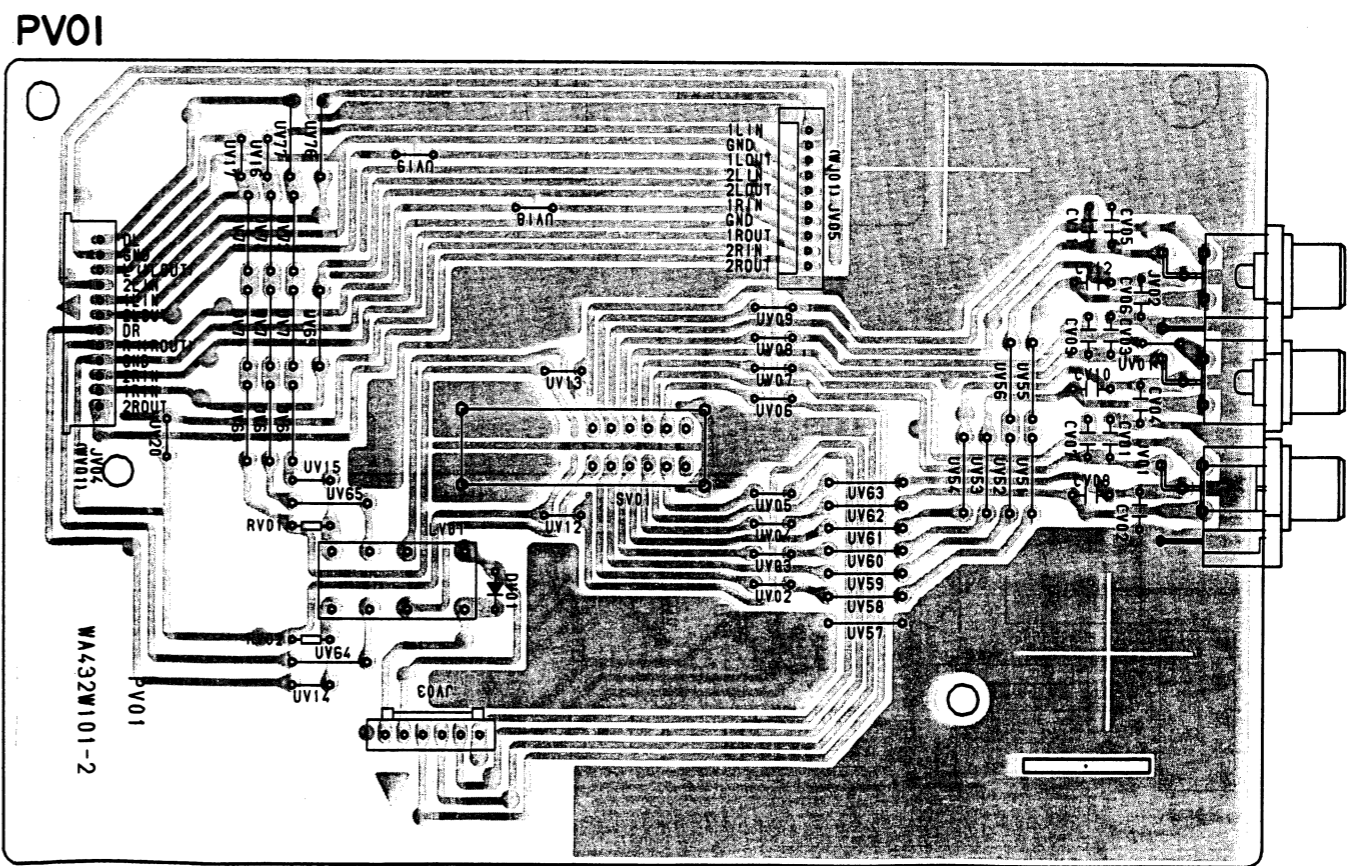
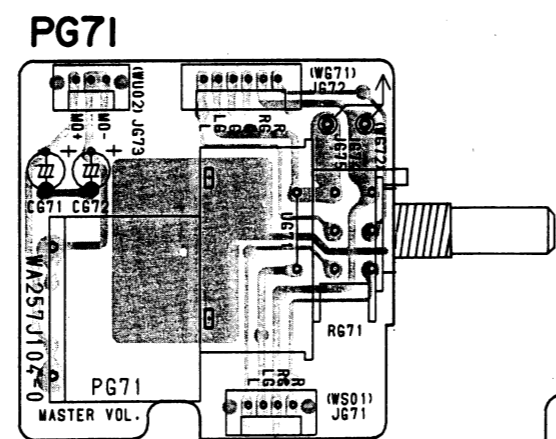
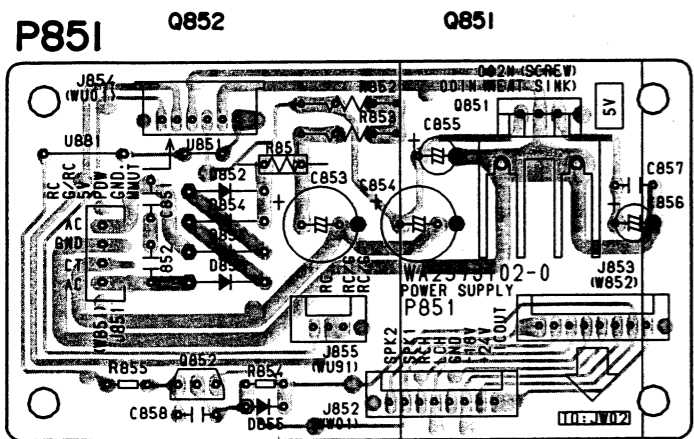
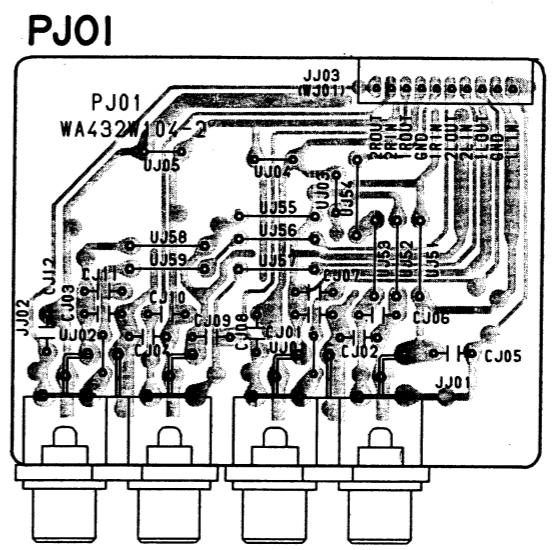
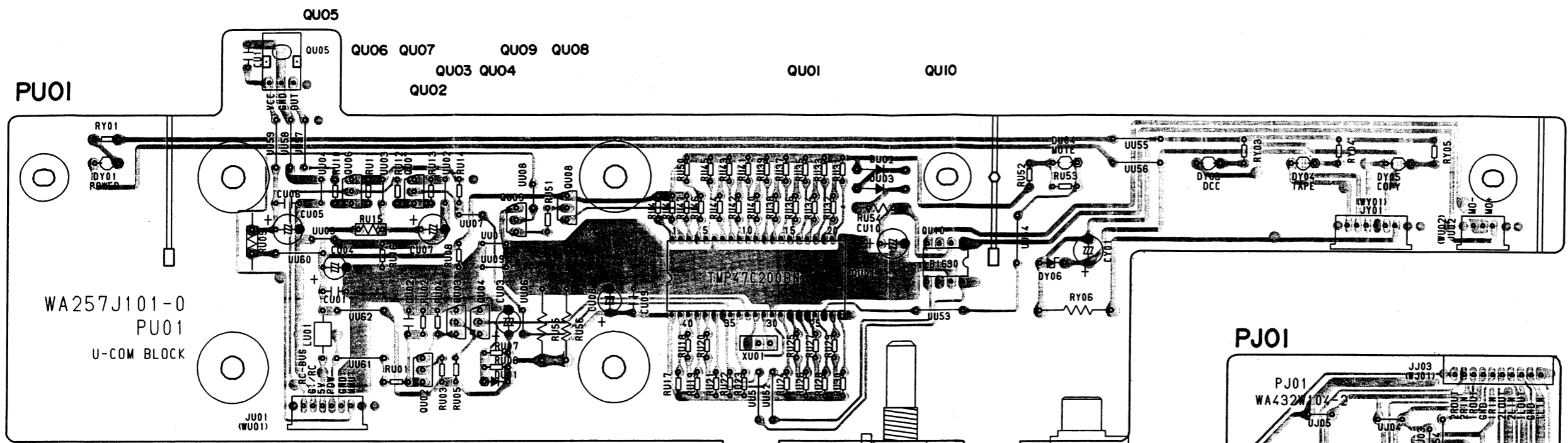


Q701 Q704 Q705 Q764 Q760 Q756 Q802 Q752 Q754 Q758 Q762 QN02 QN03  
 Q763 Q801 Q759 Q755 Q751 Q753 Q757 Q761 QN04 QN01

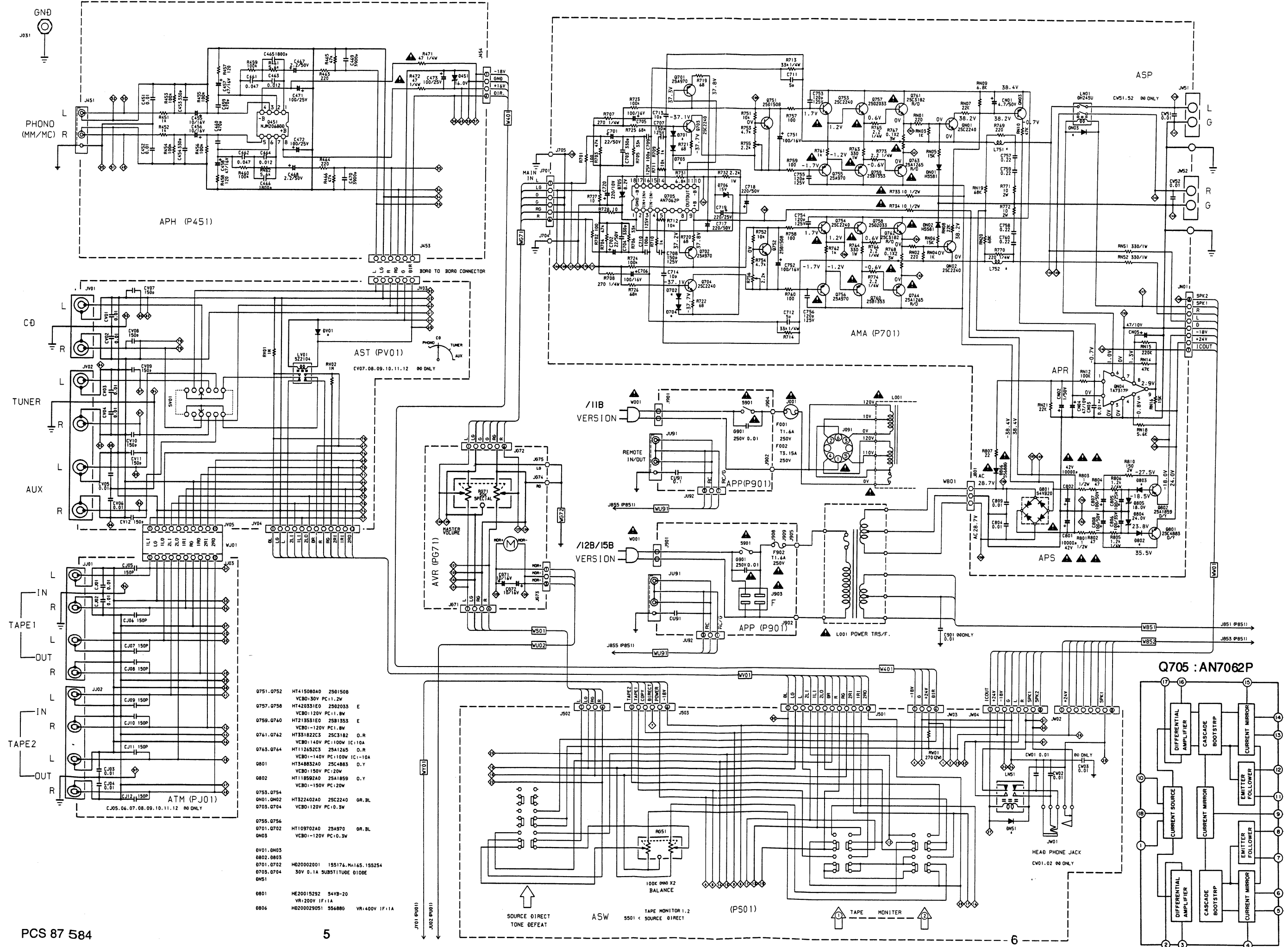


QN04 : TA7317P



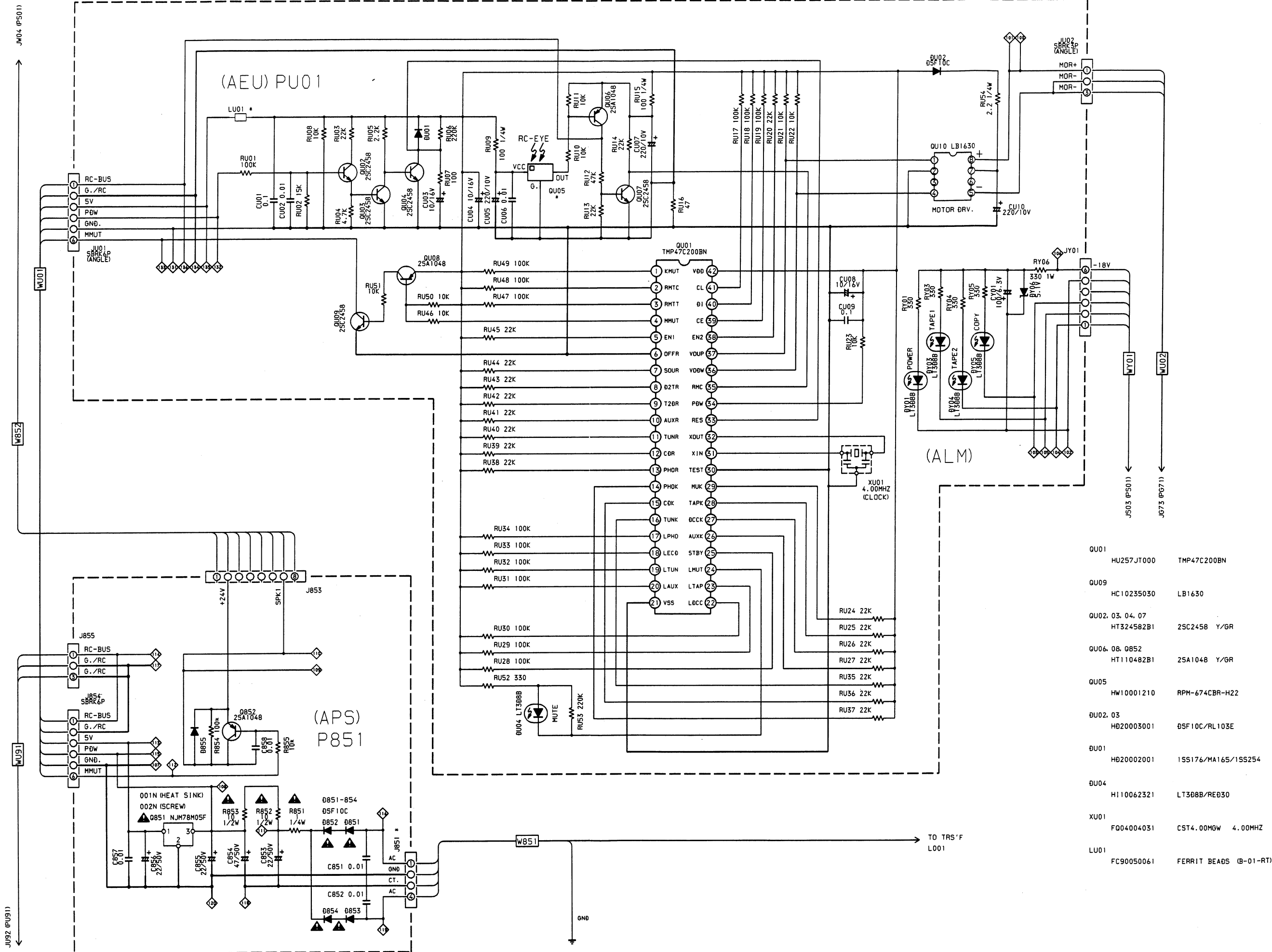


7. SCHEMATIC DIAGRAM AND PARTS LOCATION ( Pattern side )

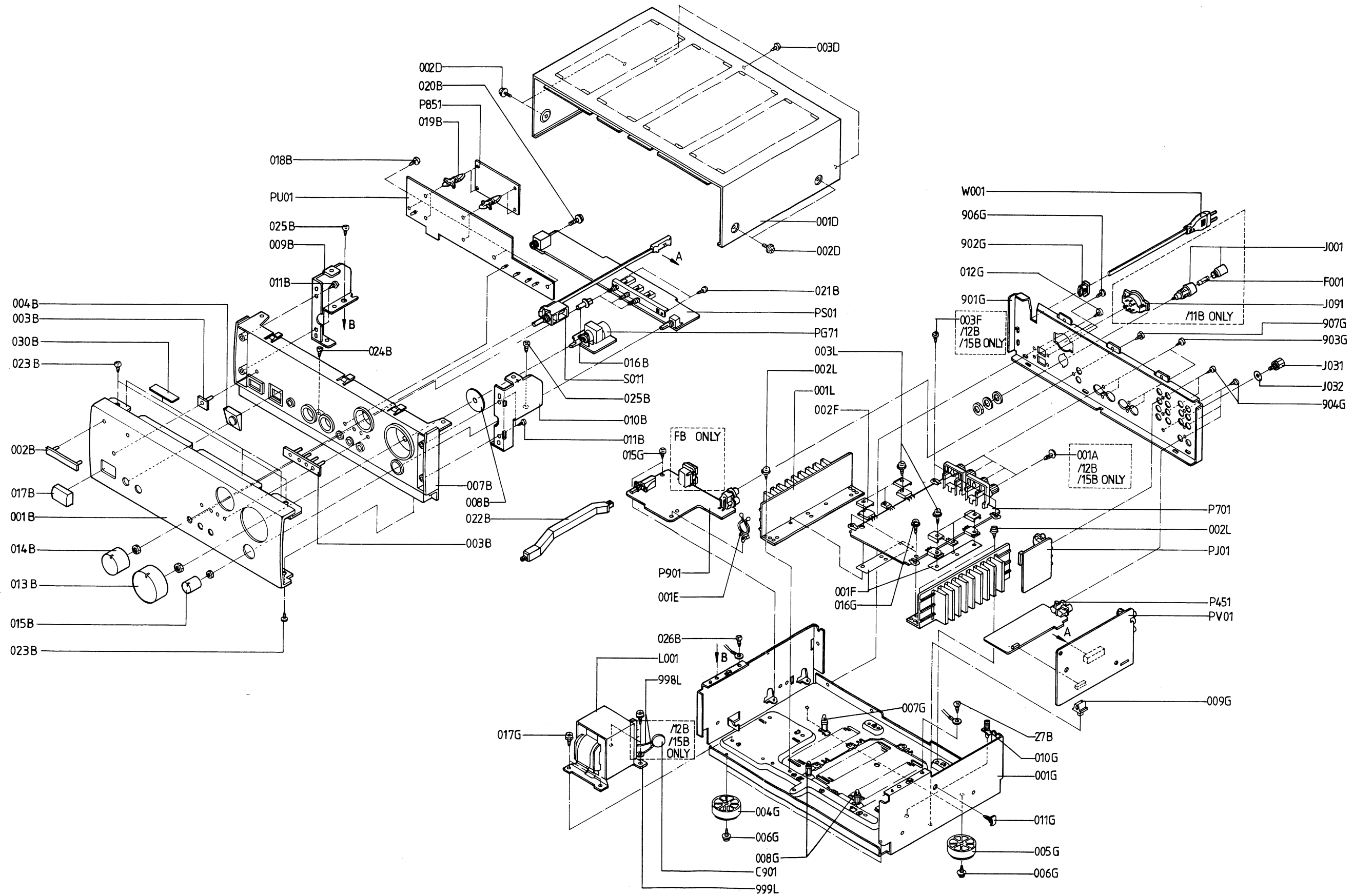


0751-0752	HT415080A0	2501508	
	VCBO:30V	PC:1.2W	
0757-0758	HT420331E0	2502033	E
	VCBO:120V	PC:1.8W	
0759-0760	HT213531E0	2581353	E
	VCBO:-120V	PC:1.8W	
0761-0762	HT331822C3	25C3182	O.R
	VCBO:140V	PC:100W	IC:10A
0763-0764	HT112652C3	25A1265	O.R
	VCBO:-140V	PC:100W	IC:10A
0801	HT348832A0	25C4883	O.Y
	VCBO:150V	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





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

## 9. ELECTRICAL PARTS LIST

### ASSIGNMENT OF COMMON PARTS CODES.

#### RESISTOR

**R\*\*\*** : 1) GD05 x x x 140, Carbon film fixed resistor,  $\pm 5\%$  1/4W  
**R\*\*\*** : 2) GD05 x x x 160, Carbon film fixed resistor,  $\pm 5\%$  1/6W

① — Resistance value

Examples :

① Resistance value  
 0.1Ω...001 10Ω...100 1kΩ...102 100kΩ...104  
 0.5Ω...005 18Ω...180 2.7kΩ...272 680kΩ...684  
 1Ω...010 100Ω...101 10kΩ...103 1MΩ...105  
 6.8Ω...068 390Ω...391 22kΩ...223 4.7MΩ...475

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

#### C\*\*\* : CERAMIC CAP.

1) DD1 x x x x 370, Ceramic capacitor  
 Disc type  
 Temp.coeff.P350~N1000.50V

① — Capacity value  
 ② — Tolerance

Examples

① Tolerance (Capacity deviation)  
 $\pm 0.25\text{pF}$ ... 0  
 $\pm 0.5\text{pF}$ ... 1  
 $\pm 5\%$ ... 5

\* Tolerance of COMMON PARTS handled here are as follows :

0.5pF~ 5pF... $\pm 0.25\text{pF}$   
 6pF~ 10pF... $\pm 0.5\text{pF}$   
 12pF~ 560pF... $\pm 5\%$

② Capacity value

0.5pF...005 3pF...030 100pF...101  
 1pF...010 10pF...100 220pF...221  
 1.5pF...015 47pF...470 560pF...561

#### C\*\*\* : CERAMIC CAP.

1) DK16 x x x x 300, High dielectric constant ceramic capacitor  
 Disc type  
 Temp.chara. 2B4, 50V

① — Capacity value

Examples

① Capacity value  
 100pF...101 1000pF...102 10000pF...103  
 470pF...471 2200pF...222

#### C\*\*\* : ELECTROLY CAP. ( $\text{⏏}$ ), FILM CAP. ( $\text{⏏}$ )

1) EA x x x x x 10, Electrolytic capacitor  
 One-way lead type, Tolerance  $\pm 20\%$

① — Working voltage  
 ② — Capacity value

Examples

① Capacity value  
 0.1μF...104 4.7μF...475 100μF...107  
 0.33μF...334 10μF...106 330μF...337  
 1μF...105 22μF...226 1100μF...118  
 2200μF...228

② Working voltage

6.3V...006 25V...025  
 10V...010 35V...035  
 16V...016 50V...050

2) DF15 x x x x 350 — Plastic film capacitor  
 DF15 x x x x 310 — One-way type, Mylar  $\pm 5\%$  50V  
 DF16 x x x x 310 — Plastic film capacitor  
 One-way type, Mylar  $\pm 10\%$  50V

① — Capacity value

Examples

① Capacity value  
 0.001μF(1000pF)...102 0.1μF...104  
 0.0018μF...182 0.56μF...564  
 0.01μF...103 1μF...105  
 0.015μF...153

**NOTE** : 1) The above CODES ( **R\*\*\***, **R\*\*\***, **C\*\*\***, **C\*\*\*** and **C\*\*\*** ) are omitted on the schematic diagram in some case.  
 2) On the occasion, be confirmed the common parts on the parts list.  
 3) Refer to "Common Parts List" for the other common parts ( **RI05**, **DD4**, **DK4** ).

### NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows :

1. KOA Corporation

Part No.	Type No.	Description
NH05 x x x 140	RF25S x x x x ΩJ	( $\pm 5\%$ 1/4W )
NH05 x x x 120	RF50S x x x x ΩJ	( $\pm 5\%$ 1/2W )
NH85 x x x 110	RF73B2A x x x x ΩJ	( $\pm 5\%$ 1/10W )
NH95 x x x 140	RF73B2E x x x x ΩJ	( $\pm 5\%$ 1/4W )

\* Resistance value (0.1-10kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No.	Type No.	Description
NF05 x x x 140	ERD-2FCJ x x x	( $\pm 5\%$ 1/4W )
RF05 x x x 140		
NF02 x x x 140	ERD-2FCG x x x	( $\pm 2\%$ 1/4W )
RF02 x x x 140		

\* Resistance value

Examples :

\* Resistance value

0.1Ω...001 10Ω...100 1kΩ...102 100kΩ...104  
 0.5Ω...005 18Ω...180 2.7kΩ...272 680kΩ...684  
 1Ω...010 100Ω...101 10kΩ...103 1MΩ...105  
 6.8Ω...068 390Ω...391 22kΩ...223 4.7MΩ...475

### ABBREVIATION AND MARKS

1 ANT. : ANTENNA	2 BATT. : BATTERY
3 CAP. : CAPACITOR	4 CER. : CERAMIC
5 CONN. : CONNECTING	6 DIG. : DIGITAL
7 HP : HEADPHONE	8 MIC. : MICROPHONE
9 μ-PRO : MICROPROCESSOR	10 REC. : RECORDING
11 RES. : RESISTOR	12 SPK : SPEAKER
13 SW : SWITCH	14 TRANSF. : TRANSFORMER
15 TRIM. : TRIMMING	16 TRS. : TRANSISTOR
17 VAR. : VARIABLE	18 X'TAL : CRYSTAL
19	20
21	22
23	24
25	26
27	28
29	30

### NOTE ON SAFETY :

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

### 安全上の注意 :

$\blacktriangle$ がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

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
P701-RESISTORS				
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
P701-SEMICONDUCTORS				
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	HT109701A0
Q702		4822 130 42949	TRS. 2SA970	HT109701A0
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
P701-MISCELLANEOUS				
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
P851-μ-COM / POWER SUPPLY CIRCUIT BOARD				
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
P851-CAPACITORS				
▲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
P851-SEMICONDUCTORS				
▲D851		4822 130 32508	DIODE RL103E	HD20003000
▲D854				
D855		4822 130 32362	DIODE 1SS254	HD20022210
▲Q851		4822 209 71903	IC NJM78M05FA	HC385050PF
Q852		4822 130 42372	TRS. 2SA1048 (Y)	HT110481Y0
P901-POWER SWITCH / FUSE CIRCUIT BOARD				
▲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