

SERVICE
MANUAL PM54II/PM64II

marantz®

model PM-54II/PM-64II

Stereo Amplifier

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 telex. In both cases, 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 telex must be signed otherwise such part order will be considered as null and void.

TECHNICAL ASSISTANCE
Should you require any other technical support, do not hesitate to contact the Technical Department of MARANTZ INTERNATIONAL, Quality & Service Dept., 80, Rue des Deux Cèdres, B-1070 Brussels Belgium
Phone: 60.625.70.22 or 625.70.23
Telex: 62.625.6150
Telex: 23550 OR
61011 (FHEIMB) routing: BELDMZT

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA HORNBYRON Werkzeugmaschinen GmbH Haidmühlgasse 5 A 1101 Wien Austria Telex: 132.332	FRANCE MARANTZ FRANCE 4 Rue Serravallo 92000 Nanterre France Telex: 611651	GREAT BRITAIN MARANTZ AUDIO U.K. Ltd Unit 15/16 Sutton Way, Hounslow Estate Moor Lane Hounslow, Middlesex TW4 5LW Great Britain Telex: 550756	SAUDI ARABIA AL ALABAH ELECTRONICS P.O. Box 564 University Street Hayah 11430 Ottob Khanah Telex: 201320	SWITZERLAND DYNACON ELECTRONICS Route de Wang 105 1701 Fribourg Switzerland Telex: 142271
AUSTRALIA MARANTZ AUSTRALIA PFL, Ltd. 18 Cleveland Road St Leonards, NSW 2100 Australia Telex: 24121	GERMANY MARANTZ GERMANY GmbH Max-Planck-Strasse 22 60322 Frankfurt 1 Germany Telex: 539621	GREECE SHERTON ELECTRONICS S.A. P.O. Box 21025 Nicosias Street 189 Athens 11471 Greece Telex: 216.735	SOUTH AFRICA MARANTZ DIVISION OF PHILIPS S.A. Burger Street Cnr. Orange St. Dorchester Johannesburg Telex: 483.456	TURKEY DOGRUOLU Ltd. 8 Bosphorus Ulusu Sultanahmet Istanbul Turkey Telex: 52985
BELGIUM SVO DIVISION MARANTZ Industriestraat 1 1720 Groot-Bigardon Belgium Telex: 24499	THE NETHERLANDS EDIP 15 De Linde 3 4312 NB Yvelde The Netherlands Telex: 47078	JAPAN MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagami-cho Sagamihara-shi, Kanagawa Japan	SPAIN PHONOS S.A. Orleans Street 18 Barrionave (Barcelona) Spain Telex: 65655	MALTA CACHIA & GALLA L.L.C. Pavane Street, SLD Valletta Telex: 1562
CHILE MARANTZ DIVISION OF PHILIPS S.A. AV. Santa Maria, 0780 Casilla 2967 Santiago Telex: 243.239	NORWAY DIVISION OF PHILIPS A/S Sjøgata 49 Oslo 5 Norway Telex: 72640	KUWAIT AL ALABAH ELECTRONICS Uzama Building Fahd al Salem Street P.O. Box 2231 Salem-Kuwait Telex: 22684	SWEDEN MARANTZ DIVISION OF PHILIPS Föreningsgatan 1 S-115 84 Stockholm Sweden Telex: 14060	U.S.A. MARANTZ COMPANY, Inc. National Service Department P.O. Box 877 Chatsworth, CA 91311 U.S.A.
DENMARK MARANTZ DIVISION OF PHILIPS SERVICE A/S Prags Boulevard 80 Postboks 1978 DK-2000 København 5 Denmark Telex: 31201	ITALY MARANTZ ITALIANA S.P.A. Via Chiesa, 74 20126 Milano Italy			

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

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

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How to use this service manual

- The "Common parts" which Marantz Japan, Inc. has established are eliminated from this service manual.
- These "Common parts" are applied to all models in the service manuals arranged and issued by M.J.
- To indicate clearly the common parts in the schematic diagram, a line is drawn above or under the Ref. Desig. No. of applicable parts.
- "Common parts" can be supplied from the Marantz service center as ever.

In case of ordering, please establish the parts number of 10 figures following the procedure mentioned in this service manual "How to establish the parts number for common parts".

(NOTE)
When you order parts to the Marantz parts center, please take notice of the following points.

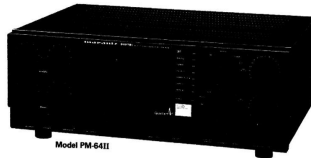
- 1) Please correctly write the parts number of 10 figures following the rule.
- 2) Since ordering parts by the Ref. Desig. No. or ratings indicated in the schematic diagram does not satisfy the above conditions, the Marantz parts supply system does not work properly.

As this case is apt to cause a trouble, please pay attention to it.

MODEL PM-54II/PM-64II STEREO AMPLIFIER



Model PM-54II



Model PM-64II

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model PM-54II/PM-64II Stereo Amplifier.

Service information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM-54II/PM-64II consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

(Model PM-54II)

- 1. Tone Volume mounted on P.W. Board PE01
- 2. Tone Defeat Switch mounted on P.W. Board PE51
- 3. Balance Volume mounted on P.W. Board PE51
- 4. Tape Monitor mounted on P.W. Board PJ01
- 5. Volume &
- 6. Push Switch mounted on P.W. Board PS01
- 6. AVSS mounted on P.W. Board PL01
- 7. Phone.
- 8. Input Selector mounted on P.W. Board PV01
- 8. Speaker Protector mounted on P.W. Board PW01
- 9. Speaker Switch &
- 10. Input Selector mounted on P.W. Board PWS1
- Display mounted on P.W. Board PY01
- 11. Main Amp mounted on P.W. Board PZ01
- 12. Power Supply (S&I) mounted on P.W. Board P801
- 13. Power Supply mounted on P.W. Board P851
- 14. Power Switch mounted on P.W. Board P901

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-54II/PM-64II Stereo Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0 - 140V AC, 10A)	Adjust level of primary power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

3. ADJUSTMENT PROCEDURE

3.1 Idling Adjustment (Model PM-64II)

1. Connect DC digital voltmeter to test point R737 (L-CH) and R738 (R-CH) terminals.
2. Turn POWER SWITCH to ON, and adjust R719 (L-CH) and R720 (R-CH) to 6mV 30 sec. later, and to 7.5mV 1 min. later.

Note:
When adjusting, have output with no load, input to open, and volume on minimum.

3.2 Idling Adjustment (Model PM-64II)

1. Short-circuit the two pins in the AVSS board (PU01) marked CLASS A and CLASS B.
2. Adjust the main board (P701) semi-fixed resistors R719 and R720 so that the voltage between the ends of the emitter resistor is within 14 to 15 mA.
3. Immediately remove the short and adjust semi-fixed resistors RU35 and RU36 for a voltage of 100 mV between the ends of the emitter resistor.
(Do this in the shortest time possible.)
4. Short-circuit the two pins in the AVSS board (PU01) marked CLASS A-25W.
5. Adjust semi-fixed resistors RU33 and RU34 for a voltage of 174 mV between the ends of the emitter resistor.
6. Finally, remove the short.

(Model PM-64II)

1. Tone Volume (L) . . . mounted on P.W. Board PE01
2. Tone Volume (R) . . . mounted on P.W. Board PE02
3. Tone Unit mounted on P.W. Board PE50
4. Tone Defeat Switch . . . mounted on P.W. Board PE51
5. Tape Monitor mounted on P.W. Board PS01
6. Volume/Power Switch . . mounted on P.W. Board PS02
7. Master Volume mounted on P.W. Board PS02
8. AVSS mounted on P.W. Board PV01
9. Phono Input Selector . . mounted on P.W. Board PV01
10. Speaker Protector
11. Speaker Switch/
Phone mounted on P.W. Board PW51
12. Input Selector
13. Display mounted on P.W. Board PV01
14. Main Amp mounted on P.W. Board PV01
15. Diode Bridge mounted on P.W. Board PE01
16. Power Supply mounted on P.W. Board PE51

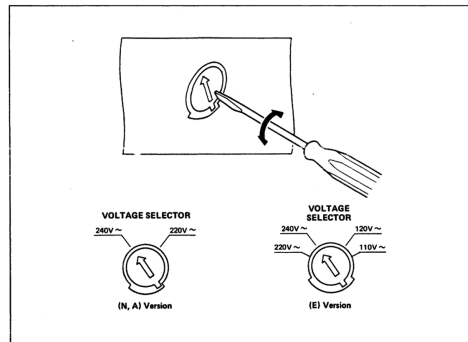
4. VOLTAGE CONVERSION

• EUROPEAN MODEL ONLY

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

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

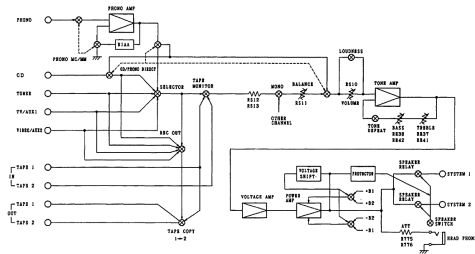
Voltage Conversion Chart



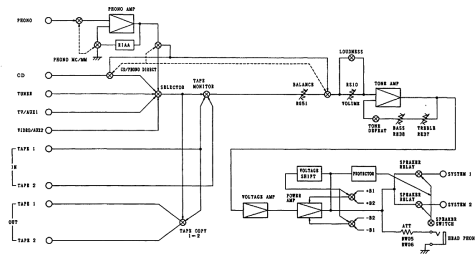
Note on safety: Symbol Δ : Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol Δ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

5. BLOCK DIAGRAM

(Model PM-6411)

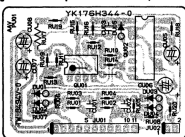
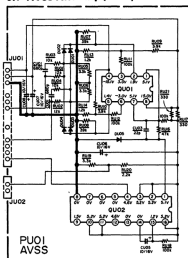


(Model PM-5411)

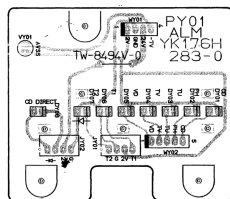
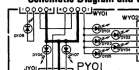


6. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

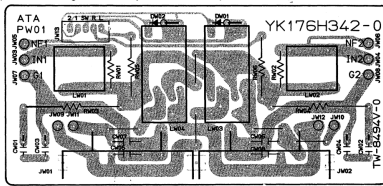
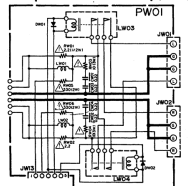
6.1 AVSS Assembly (PU01) Schematic Diagram and Component Locations (Model PM-54II)



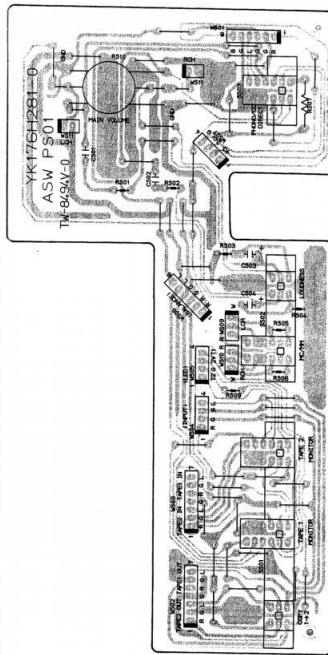
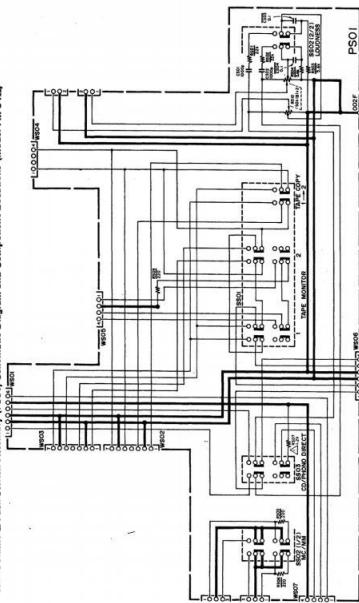
6.2 Input Selector Display Assembly (PY01) Schematic Diagram and Component Locations (Model PM-54II)



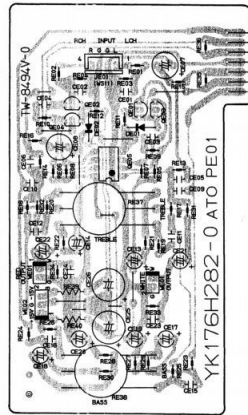
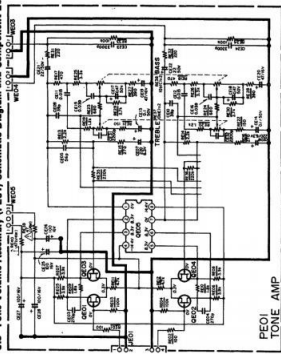
6.3 Speaker Protector Assembly (PW01) Schematic Diagram and Component Locations (Model PM-54II)



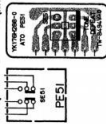
6.4 Volume & Pitch Switch Assembly (PS01) Schematic Diagram and Component Locations (Model PM-541D)



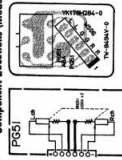
6.5 Tone Volume Assembly (PE01) Schematic Diagram and Component Locations (Model PM-541D)



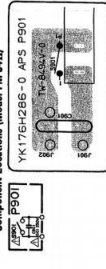
6.6 Tone Defeat Switch Assembly (PE01) Schematic Diagram and Component Locations (Model PM-541D)



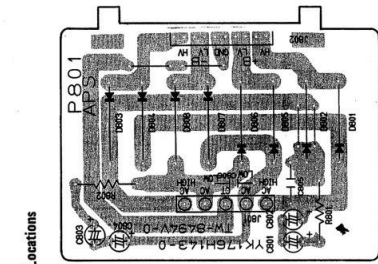
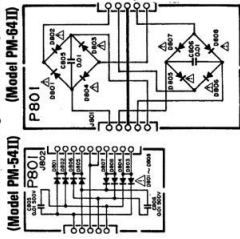
6.8 Balance Volume Assembly (PS01) Schematic Diagram and Component Locations (Model PM-541D)



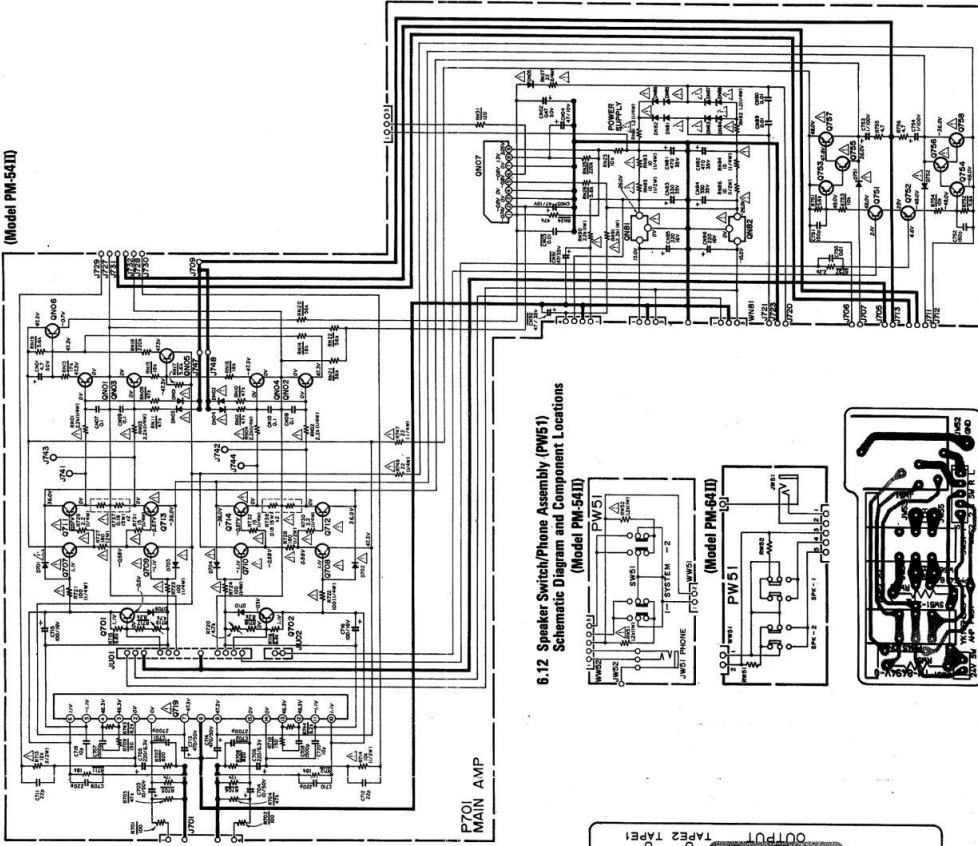
6.7 Power Switch Assembly (PS01) Schematic Diagram and Component Locations (Model PM-541D)



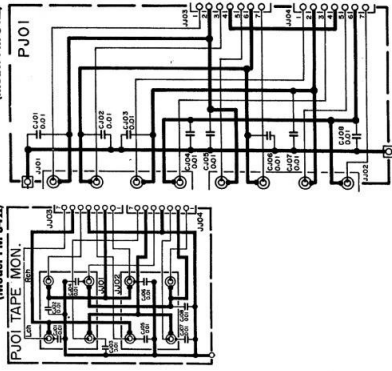
6.9 Diode Bridge Assembly (P801)
Schematic Diagram and Component Locations



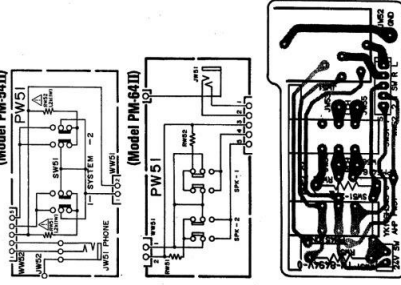
6.11 Main Amp Assembly (P701) Schematic Diagram and Component Locations

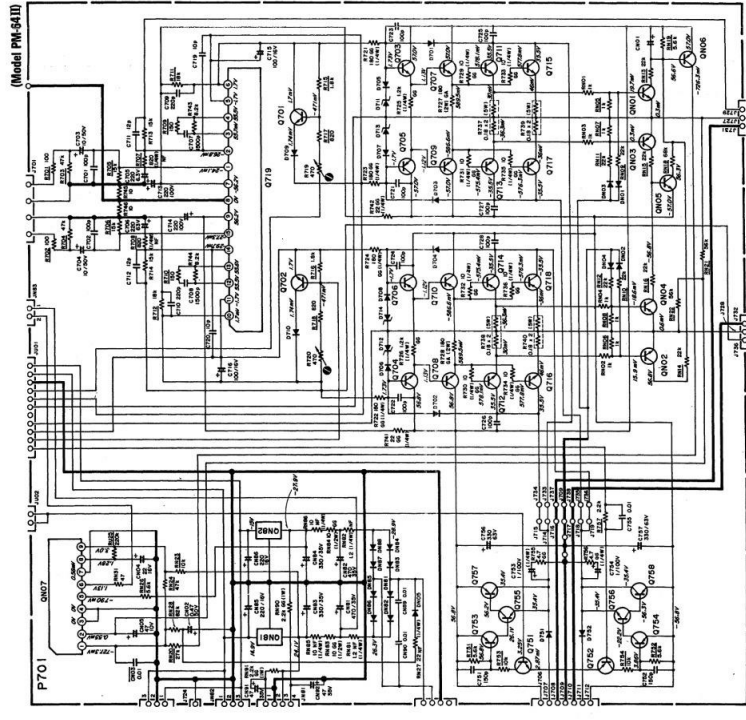
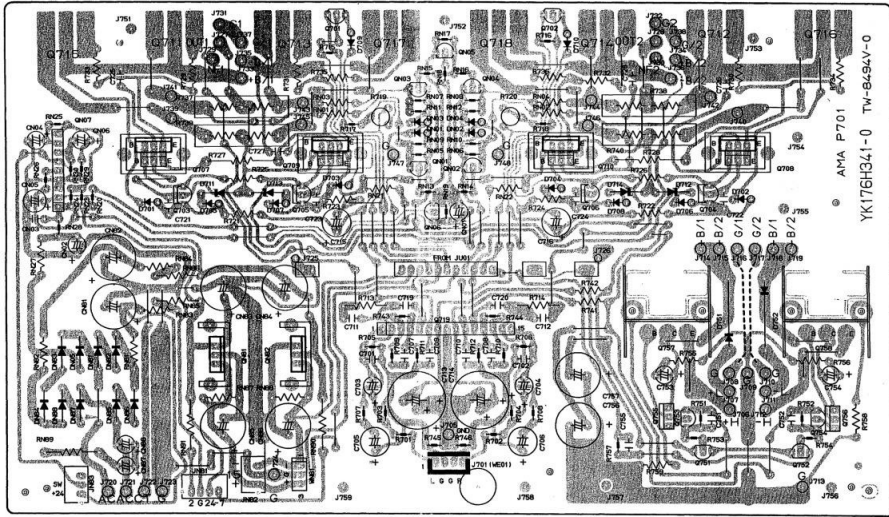


6.10 Tape Monitor Assembly (P101)
Schematic Diagram and Component Locations

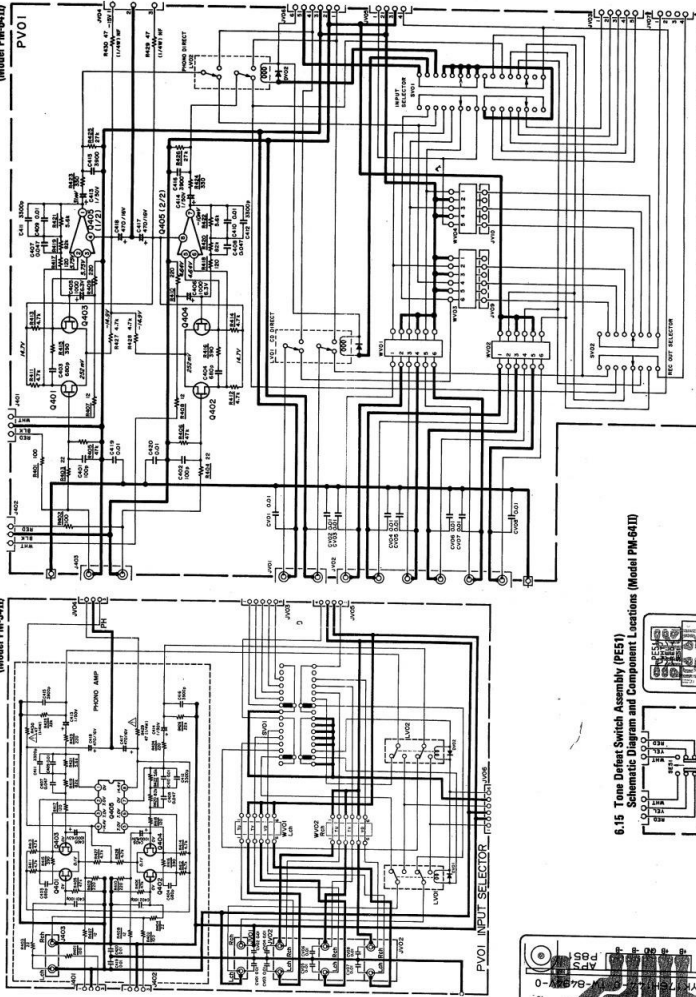


6.12 Speaker Switch/Phone Assembly (PW51)
Schematic Diagram and Component Locations

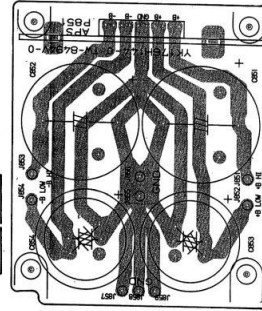
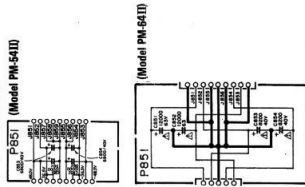




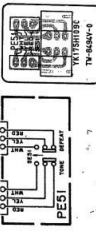
6.14 Photo Input Selector Assembly (PVOI) Schematic Diagram and Component Locations
(Model PM-6410)

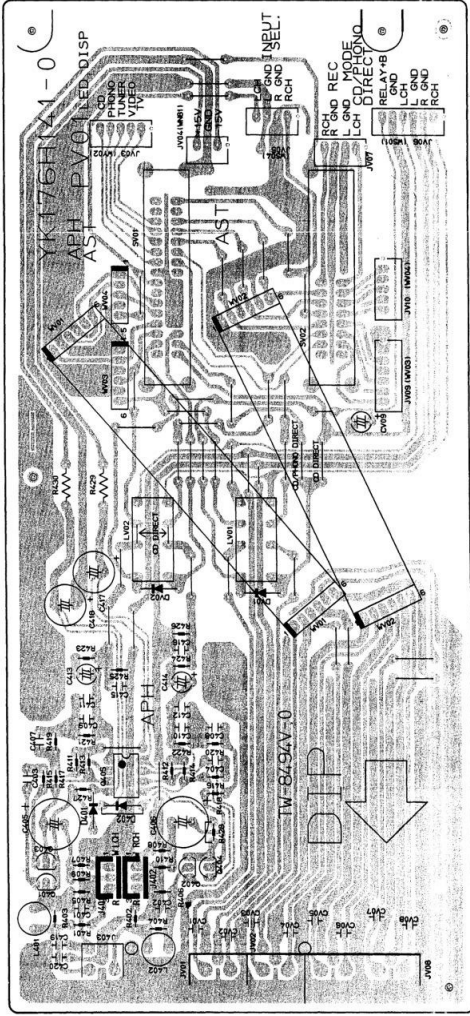


6.13 Power Supply Assembly (PES1) Schematic Diagram and Component Locations
(Model PM-6410)

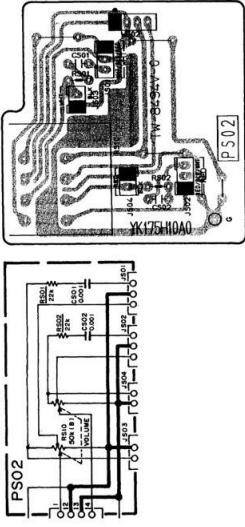


6.15 Tone Detect Switch Assembly (PES1) Schematic Diagram and Component Locations
(Model PM-6410)

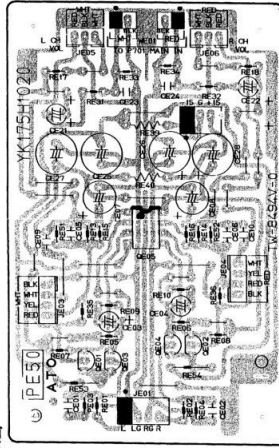
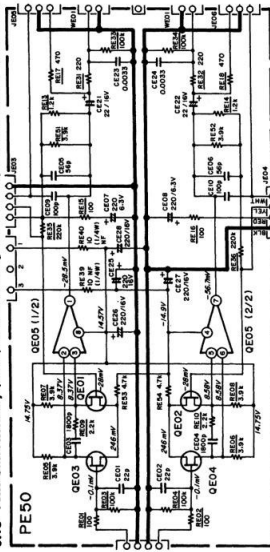




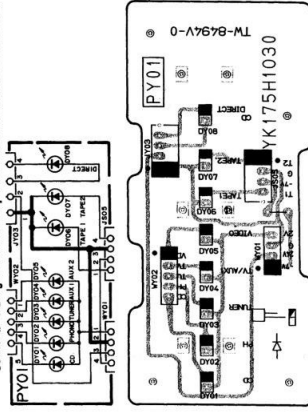
6.17 Master Volume Assembly (PS02)
Schematic Diagram and Component Locations (Model PM-641D)



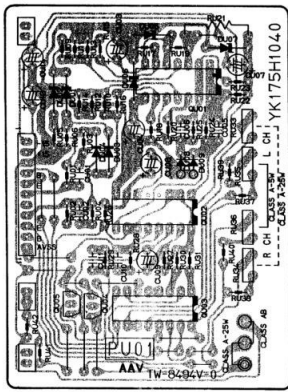
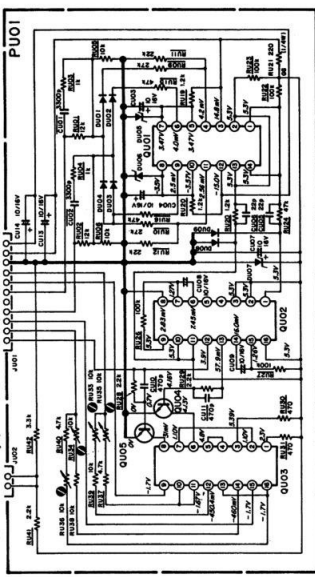
6.16 Tone Unit Assembly (PE50) Schematic Diagram and Component Locations (Model PM-641D)



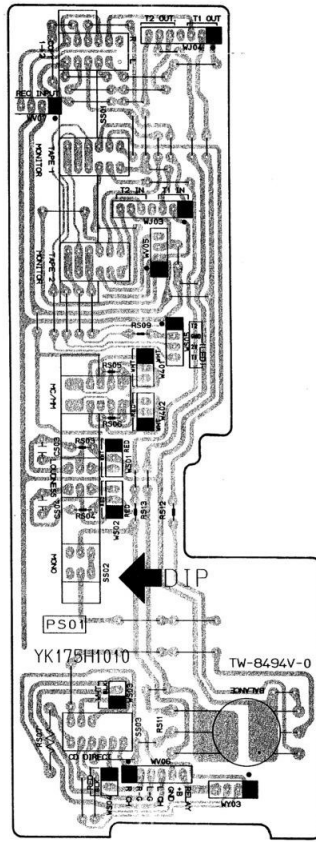
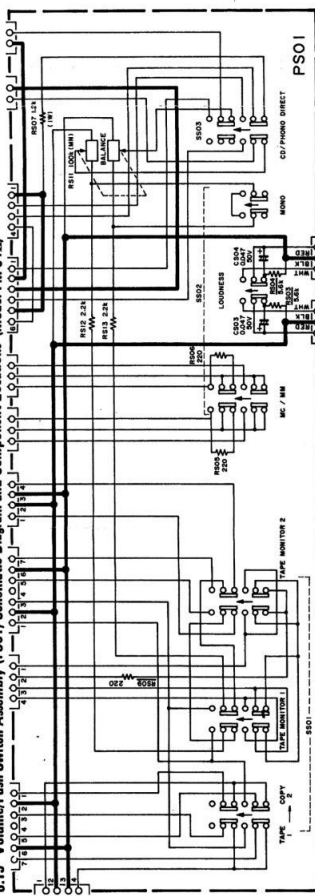
6.18 Input Selector Display Assembly (PY01)
Schematic Diagram and Component Locations (Model PM-641D)



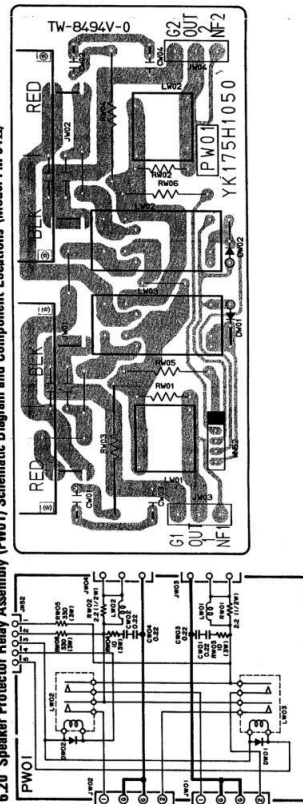
6.21 AVSS Assembly (PU01) Schematic Diagram and Component Locations (Model PM-64II)



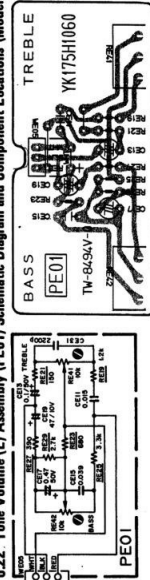
6.19 Volume/Push Switch Assembly (PS01) Schematic Diagram and Component Locations (Model PM-64II)



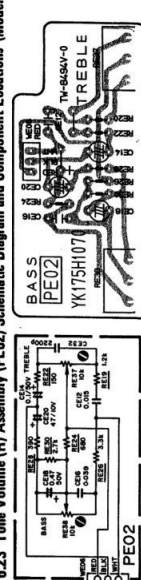
6.20 Speaker Protector Relay Assembly (PW01) Schematic Diagram and Component Locations (Model PM-64II)



6.22 Tone Volume (L) Assembly (PE01) Schematic Diagram and Component Locations (Model PM-64II)

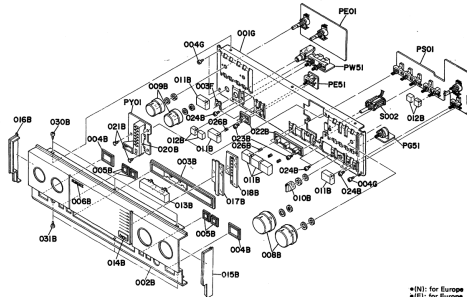


6.23 Tone Volume (R) Assembly (PE02) Schematic Diagram and Component Locations (Model PM-64II)



7. EXPLODED VIEW AND PARTS LIST (Model PM 541I)

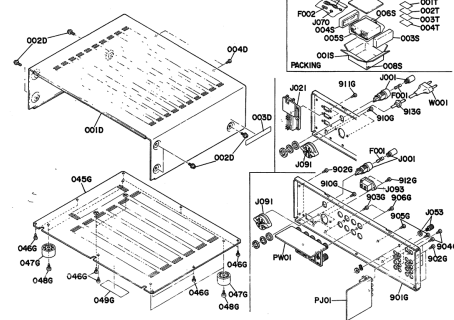
(C01-99) Front Panel and Chassis



*H1: for Europe
*E1: for Europe
*A1: for Australia
*F1: for Japan
*G1: for FX

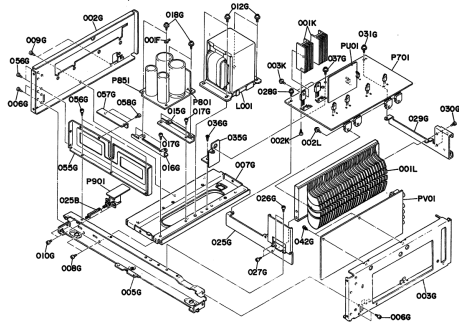
REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
A	182H248410	Front Panel Assembly (Gold)	009B	178H154010	Knob, Selector/Volume, Black
002B	182H248110	Front Panel	178H154110	Knob, Selector/Volume, Gold	
003B	178H259020	Bushing, Tone Defeat/Tape Cope	009B	178H154020	Knob, Tone Control, Black
004B	242H289020	Bushing, Power, CD, Phone Direct	178H154120	Knob, Tone Control, Gold	
005B	242H259030	Bushing, Speaker, Direct	010B	263H114130	Knob, Balance, Black
006B	274H251020	Badge, Marantz	263H114020	Knob, Balance, Gold	
013B	263H113010	Stud	011B	242H270110	Button, Black
014B	178H251010	Badge, AVSS	242H270010	Button, Gold	
015B	178H251110	Cap, Front Side (R)	012B	242H270220	Button, Black
016B	178H251220	Cap, Front Side (L)	242H270020	Button, Gold	
017B	263H159010	Window	020B	178H271010	Holder, LED
018B	178H151010	Introducer	021B	271805000	Chassis
A	182H248400	Front Panel Assembly (Black)	022B	178H051010	Guide, Button
002B	182H248010	Front Panel	023B	511003000	B.H.M. Screw B3 x 6
003B	178H259010	Bushing, Tone Defeat/Tape Cope	024B	511003000	B.H.M. Screw B3 x 6
004B	242H259130	Bushing, Power, CD/Phone Direct	026B	78H110010	Spring, Button
005B	242H259130	Bushing, Speaker/Loudness	030B	512803000	B.H. Tapped Screw B3 x 8
006B	274H251030	Badge, Marantz	031B	512803000	B.H. Tapped Screw B3 x 8
013B	263H113110	Stud	003F	198F114010	Stopper, Headphone Jack
014B	178H251010	Badge, AVSS	001G	178H150010	Chassis, Front
015B	178H250720	Cap, Right Side	004G	512803000	B.H. Tapped Screw B3 x 8
016B	178H250730	Cap, Left Side	S002	5R00050210	Rotary Switch, Input Selector
017B	263H158010	Window			
018B	178H151010	Introducer			

[00299] Lid and Packing Materials



REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
0010	178H257010	Lid, Top Cover, Black	Δ J001	YJ06000290	Jack, Fuse Holder
0020	178H257020	Lid, Top Cover, Gold	Δ J002	YJ04000700	Jack, AC Outlet: 3P [E, G]
0020	51260408A0	B.T. Screw	0053	Y101010100	Terminal, GND
0030	2911861140	Label, Caution	Δ J091	BV05030040	Voltage Selector [N, A]
0040	51280308A0	B.H. Tapped Screw	Δ J093	BV05080060	Voltage Selector [E, G]
0456	268H257020	Lid, Bottom Cover	Δ J093	YF04000610	Plug, AC Inlet [N, A]
0466	51280308A0	B.H. Tapped Screw	Δ W001	YC01800370	A.C. Power Cord [E, G]
0476	2789067010	B.H. Tapped Screw	0015	1824801010	PACKING
0486	51280308A0	B.H. Tapped Screw	0015	1824801020	Packing Case [N, A]
0496	2911861110	Label, Caution	0025	1784807010	Packing Case [E, G]
0496	51280308A0	B.H. Tapped Screw	0035	263H808010	Reinforcing [E, G]
9010	182H250070	Rear Panel [N, A]	0045	263H808020	Cushion, Right
9020	51280308A0	B.H. Tapped Screw	0055	908111020	Polyethylene Sheet
9030	51280308A0	B.H. Tapped Screw	0065	2846404010	Shelf, AC Power Cord [E, G]
9040	51280308A0	B.H. Tapped Screw	0085	9626018050	Serial No. Card [G]
9050	51280308A0	B.H. Tapped Screw	0017	1784851310	User Manual
9060	51280308A0	B.H. Tapped Screw	0027	1824851220	User Manual, Spec
9100	51280308A0	B.H. Tapped Screw	0037	1824856010	Circuit Diagram [N, E]
9120	51280308A0	B.H. Tapped Screw	0047	4184854010	Warranty Card [G]
9130	1462209000	Building, AC Power Cord [E, G]	0047	9631000900	Warranty Card [A]
Δ F001	F510160650	Fuse T1.6A 250V [N, A]	Δ F002	F510400890	Fuse T4.0A 250V [E, G]
	F510200850	Fuse T2.0A 250V [E, G]	Δ J070	YJ04001240	Jack, AC Adapter [E, G]
			Δ W001	ZC01806030	A.C. Power Cord [N]
				ZC02006030	A.C. Power Cord [A]

[03-99] Chassis and General Parts

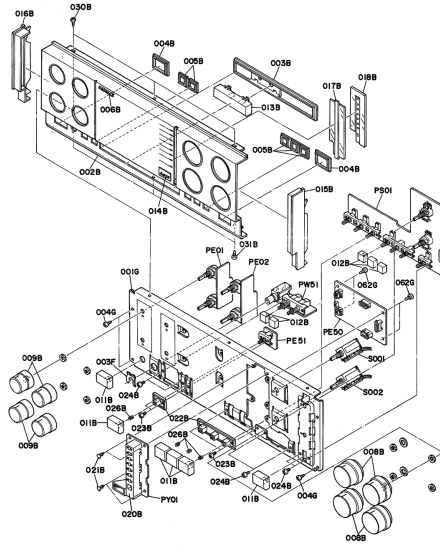


REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
025B	176H125010	Joint, Power Switch	035G	176H104070	Retainer, Main P.W. Board
001F	62030049W0	Lug, Earth	036G	51280308M0	B.H. Tapped Screw 83 x 8
002D	176H105020	Chassis, Left Side	037G	51280308M0	B.T. Screw 83 x 8
002E	176H105020	Chassis, Right Side	042G	22760506G0	Clamp
002F	176H105020	Swy, Center	056G	176H109010	Shield
005C	51280308M0	B.H. Tapped Screw 83 x 8	056G	51280308M0	B.H. Tapped Screw 83 x 8
005D	51280308M0	B.H. Tapped Screw 83 x 8	057G	182H109010	Shield
005E	51280308M0	B.H. Tapped Screw 83 x 8	001L	176H267130	Heatshk, Main 83 x 12
005F	51280308M0	B.H. Tapped Screw 83 x 8	002L	51280312M0	B.T. Screw
005G	51280308M0	B.H. Tapped Screw 83 x 8	001K	182H267010	Heatshk (Q797, Q798)
010G	51100008M0	B.H.M. Screw 83 x 6	002K	51280308M0	B.H. Tapped Screw 82.6 x 8
015G	176H104040	Retainer, Rear	003K	51100308M0	B.H.M. Screw 83 x 8
018G	176H104050	Retainer, Front	A.L001	T818507050	Power Transformer (N, A)
017G	51280308M0	B.H. Tapped Screw 83 x 8		T818507060	Power Transformer (E, G)
018C	51280308M0	B.H. Tapped Screw 83 x 8			
025G	176H104020	Retainer, Heatshk; Front			
028G	51280308M0	B.H. Tapped Screw 83 x 8			
027G	51280308M0	B.H. Tapped Screw 83 x 8			
028C	51280308M0	B.T. Screw 83 x 8			
029G	176H104020	Retainer, Heatshk; Rear			
030G	51280308M0	B.H. Tapped Screw 83 x 8			
031G	51280308M0	B.H. Tapped Screw 83 x 8			

M3157

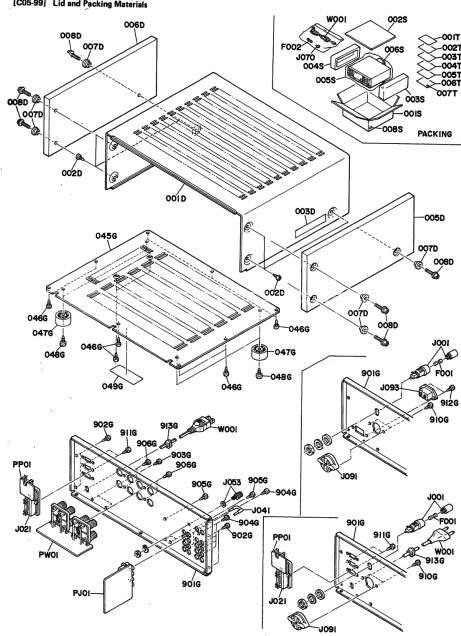
(Model FM-64II)

(C04-99) Front Panel and Chassis



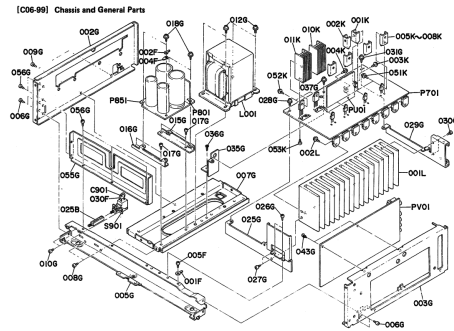
REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
A	175H248400	FM-64MKII Front Panel Assembly (Black)	008B	175H154010	Knob (Black)
A1	175H248410	Front Panel Assembly (Gold)	008B	175H154020	Knob (Gold)
002B	175H248020	Front Panel (Black)	008B	175H154030	Knob (Black)
003B	175H250010	Front Panel (Gold)	008B	175H154040	Knob (Gold)
175H250020		Bushing, Tone Defeat/Tape Cope (Black)	011B	242H270110	Button (Black)
175H250030		Bushing, Tone Defeat/Tape Cope (Gold)	012B	242H270120	Button (Black)
004B	242H289120	Bushing, Power/CD, Phono Direct (Black)	012B	242H270130	Button (Gold)
242H289020		Bushing, Power/CD, Phono Direct (Gold)	020B	175H271010	Holder, LED
005B	242H289130	Bushing, Speaker/Loudness/etc. (Black)	021B	51280308M0	B.T. Screw 83 x 8
006B	242H289200	Bushing, Speaker/Loudness/etc. (Gold)	022B	175H081010	Guide, Button
030B	274H251020	Badge, Marantz	023B	51100308M0	B.H.M. Screw 83 x 8
013B	263H113110	Stud (Black)	024B	51100308M0	B.H.M. Screw 83 x 8
014B	263H113210	Stud (Gold)	026B	175H119010	Spring, Button
014B	175H251010	Badge, AV/BS	008B	51280308M0	B.H. Tapped Screw 83 x 8
015B	242H067110	Cap, Right Side (Black)	011B	51280308M0	B.H. Tapped Screw 83 x 8
016B	242H067120	Cap, Right Side (Gold)	003F	18B114010	Stopper, Headphone Jack
016B	242H067130	Cap, Left Side (Black)	001G	175H105010	Chassis, Front
017B	242H067100	Cap, Left Side (Gold)	004G	51280308M0	B.H. Tapped Screw 83 x 8
017B	242H158010	Window	0E2G	51280308M0	B.H. Tapped Screw 83 x 8
018B	175H151010	Introducer	5001	5R00050230	Rotary Switch, Function Selector
A	175H248420	FM-74D Front Panel Assembly	5002	5R00050090	Rotary Switch, Rec Selector
002B	175H248010	Front Panel			
003B	175H250010	Bushing, Tone Defeat/Tape Cope			
004B	242H289120	Bushing, Power/CD, Phono Direct			
005B	242H289130	Bushing, Speaker/Loudness/etc.			
006B	274H251020	Badge, Marantz			
013B	263H113110	Stud			
014B	175H251010	Badge, AV/BS			
015B	242H067110	Cap, Right Side			
016B	242H067120	Cap, Right Side			
017B	242H067130	Cap, Left Side			
017B	242H158010	Window			
018B	175H151010	Introducer			

[C05-89] Lid and Packing Materials



REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
001D	175H257010	Lid, Top Cover (Black)	001B	175H801010	PACKING
	175H257020	Lid, Top Cover (Gold)		175H801020	Packing Case [F]
002D	5128040840	B.T. Screw 84 x 8 [N, A, E, G]		175H801030	Packing Case [N, A]
003D	2911881140	Label, Caution [N, A, E, G]	002B	175H801010	Packing Case [E, G]
006B	175H248110	Side Panel (R) [F]	003B	175H800910	Reinforcing [E, G]
006D	175H248120	Side Panel (L) [F]	004B	175H800920	Cushion, Right
007D	390K258010	Bushing [F]	006B	909111020	Cushion, Left
008D	5128043030	B.N. Tapped Screw [F]	006B	2688890010	Polystyrene Sheet
046G	268H237020	Lid, Bottom Cover	008B	909111020	Shave, AC Power Cord [E, G, F]
046G	5128030840	B.N. Tapped Screw 83 x 8	008B	9029019000	Serial No. Card [G]
047G	2759007010	Lag [N, A, E, G]	001T	175H851310	User Manual [N, F, A, G]
048G	5128041040	B.N. Tapped Screw 84 x 10		175H851320	User Manual [F]
049G	2911881110	Label, Caution [N, A, E, G]	002T	175H851320	User Manual, Spec [N, E, A, G]
901G	175H250020	Rear Panel [N, A]	003T	175H856010	Circuit Diagram [N, E]
	175H250030	Rear Panel [E, G]		416H854010	Warranty Card [G]
	175H250010	Rear Panel [F]	004T	9631000090	Warranty Card [A]
902D	5128030840	B.N. Tapped Screw 83 x 8	008T	9631000130	Warranty Card [F]
903B	5128030840	B.N. Tapped Screw 83 x 8	008T	128T354010	Warranty Card [F]
904G	5128030840	B.N. Tapped Screw 83 x 8	007T	9510000050	Warranty Card [F]
905G	5128030840	B.N. Tapped Screw 83 x 8	007T	9540000010	License [F]
906G	5128030840	B.N. Tapped Screw 83 x 8	Δ.F002	F510630850	Fuse T8.3A 250V [E, G]
910G	5128030840	B.N. Tapped Screw 83 x 8 [N, E, A, G]	Δ.J070	YJ04001240	Jack, AC Adapter [E, G]
911G	5128030840	B.N. Tapped Screw 83 x 8 [E, G, F]	Δ.W001	ZC01805020	A.C. Power Cord [N]
912G	5128030840	B.N. Tapped Screw 83 x 8 [N, A]		ZC02006020	A.C. Power Cord [A]
913G	1455259090	Bushing, AC Power Cord [E, G, F]			
Δ.F001	F510318500	Fuse T3.15A 250V [E]			
	F510259850	Fuse T2.5A 250V [N, A, G]			
Δ.J001	YJ08000290	Jack, Fuse Holder [N, E, A, G]			
Δ.J021	YJ04000750	Jack, AC Outlet-3P [E, G, F]			
J053	Y701010150	Terminal, ON/OFF			
Δ.J091	BY05000440	Voltage Selector [N, A]			
	BY05000460	Voltage Selector [E, G]			
Δ.J093	YF04000610	Plug, AC Inlet [N, A]			
Δ.W001	YQ01800370	A.C. Power Cord [E, G, F]			
J041	YQ01900020	Shose Plug [F]			

[006-99] Chassis and General Parts



REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
0258	178H125010	Joint, Power Switch	0380	178H104070	Retainer, Main P.W. Board
001F	62030049W0	Lug, Earth	0380	51903088M0	F. H. Tapscrew F3 x 8
002F	62030049W0	Lug, Earth	0370	51280308M0	B.T. Screw 83 x 8
004F	62030049W0	Lug	0420	27920565G0	Clamp
005F	51280308M0	B.H. Tapped Screw 83 x 6	0555	178H109010	Shield
020F	1397120000	Insulator	0565	51280308M0	B.H. Tapped Screw 83 x 8
0002	178H105020	Chassis, Left Side	001L	174H267010	HeatSink, Main
0003	178H105020	Chassis, Right Side	002L	51280312M0	B.T. Screw 83 x 12
0095	178H126010	Stay, Center	001K	264H267020	HeatSink (QNB1)
0062	51280308M0	B.H. Tapped Screw 83 x 8	002K	264H267020	HeatSink (QNB2)
0070	178H160010	Bracket, Power Transformer 83 x 8	003K	51100308M0	B.H.M. Screw 83 x 8
0062	51280308M0	B.H. Tapped Screw 83 x 8	004K	51100308M0	B.H.M. Screw 83 x 8
0096	51280308M0	B.H. Tapped Screw 83 x 8	006K	178H267040	HeatSink (Q2701)
0100	51100308M0	B.H.M. Screw 83 x 6	007K	178H267040	HeatSink (Q2709)
0123	5170600020	Special Set Screw	008K	178H267040	HeatSink (Q2708)
0165	178H104050	Retainer, Rear	007K	182H267010	HeatSink (Q2757)
0170	51280308M0	B.H. Tapped Screw 83 x 8	011K	182H267010	HeatSink (Q2758)
0185	51280308M0	B.H. Tapped Screw 83 x 8	051K	51280308M0	B.H. Tapped Screw 83 x 6
0295	178H104050	Retainer, HeatSink, Front	052K	51280308M0	B.H. Tapped Screw 83 x 8
0270	51280308M0	B.H. Tapped Screw 83 x 8	053K	51280308M0	B.H. Tapped Screw 83 x 8
0290	178H104050	Retainer, HeatSink, Rear	ΔL001	TS19828010	Power Transformer (N, A)
0310	51280308M0	B.H. Tapped Screw 83 x 8	TS19828020	Power Transformer (E, G)	
			TS19828020	Power Transformer (F)	
			DK18103840	Ceramic Cap. 0.01μF 250V	
			OK18103850	Ceramic Cap. 0.01μF 250V	
			SP01010520	Push Switch, Power	

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR
 (1) G005—140 Carbon film fixed resistor, 25%, 1/4W
 (2) G006—140 Carbon film fixed resistor, 25%, 1/8W

Examples
 Resistance value
 010...001 100 100 101 102 1000...104
 011...008 101 102 270...272 1000...104
 111...010 1000 101 102 103 1000...104
 6801 008 3000 301 2201...223 47000...475

(Note) Please distinguish 1/4W from 1/8W by the shape of parts used actually.

CERAMIC CAP
 (1) DK16—350 High dielectric constant ceramic condenser

Examples
 Capacity value
 103J4F 103J4F 103J4F
 103J4F 103J4F 103J4F

(Note) Tolerance of ceramic parts is listed here as follows:

103J—10% 103K—10% 103M—10%
 103P—5% 103Q—5% 103R—5%
 103S—5% 103T—5% 103U—5%
 103V—5% 103W—5% 103X—5%
 103Y—5% 103Z—5%

CERAMIC CAP
 (1) DK16—350 High dielectric constant ceramic condenser

Examples
 Capacity value
 100J...101 1000J...102 10000J...103
 470J...471 2200J...222

ELECTROLYTIC CAP (E) & FILM CAP (F)
 (1) EA—15 Electrolytic condenser

Examples
 Capacity value
 01J...104 4.7J...475 100J...107
 0.33J...334 10J...108 220J...223

Examples
 Working voltage
 6.3V...008 20V...028
 10V...010 25V...028 50V...050

(2) DF15—350 Plastic film condenser

Examples
 Capacity value
 0.001J...101 0.1J...104
 0.001J...102 0.04J...104
 0.01J...103 1J...108
 0.01J...103

8. ELECTRICAL PARTS LIST

(*) for Europe
 (E) for Europe
 (F) for America
 (J) for Japan
 (K) for PC

REF. DESIGN.	PART NO.	DESCRIPTION
F701	YK1704310 ZZ1820810 ZZ3201410	PDF MAIN AMP CIRCUIT BOARD P.W. Board Main Amp P.W. Board Assembly (N, A) P.W. Board Assembly (E, J)
CN01	OA4740010	PDF-CAPACITORS
CN02	OA4740010	Elect 4.7uF 50V
CN03	OA4740010	Elect 6.8uF 50V
CN04	OA4701010	Elect 4.7uF 10V
CN05	OA4701010	Elect 47uF 10V
CN06	OA4703010	Elect 470uF 35V
CN07	OA4703010	Elect 470uF 35V
CN08	OA2370010	Elect 330uF 35V
CN09	OA2370010	Elect 330uF 35V
CN10	OA2270100	Elect 220uF 16V
CN11	OA2270100	Elect 220uF 16V
CN12	DK1810300	Ceramic 6.01uF +80% -20%
CN13	DK1810300	Ceramic 0.01uF +80% -20%
CN14	EA4700010	Elect 4.7uF 25V
CN15	EA4700010	Elect 47uF 35V
C701	OF18272010	Film 270uF 25%
C702	OF18272010	Film 270uF 25%
C703	OA1060010	Elect 10uF 50V
C704	OA1060010	Elect 10uF 50V
C705	OA22700610	Elect 220uF 6.3V
C706	OA22700610	Elect 220uF 6.3V
C707	DF1810210	Film 1000uF 25%
C708	DF1810210	Film 1000uF 25%
C709	DF5221090	Film 220uF 75%
C710	DF5221090	Film 220uF 75%
C711	DF3110020	Film 10uF 25%
C712	DF3110020	Film 10uF 25%
C713	OA47700310	Elect 470uF 63V
C714	OA47700310	Elect 470uF 63V
C715	OA10701010	Elect 100uF 16V
C716	OA10701010	Elect 100uF 16V
C717	DF1110030	Ceramic 10uF 35uF
C718	DF1110030	Ceramic 10uF 35uF
C719	DR1810310	Ceramic 0.01uF +80% -20%
C720	DR1810310	Ceramic 0.01uF +80% -20%
C721	DR1810310	Ceramic 0.01uF +80% -20%
C722	DR1810310	Ceramic 0.01uF +80% -20%
C723	DR1810310	Ceramic 0.01uF +80% -20%
C724	DF9810100	Film 100uF 25%
C725	DF9810100	Film 100uF 25%
C726	OA10810010	Elect 8uF 100V
C727	OA10810010	Elect 1uF 100V
C728	OF1810010	Film 10uF 25%
RN01	G00622140	PDF RESISTORS (All Resistors are 25% and 1/8W)
RN02	G00622140	25K
RN03	G00622140	25K
RN04	G00622140	25K
RN05	NH0001140	2212, Fusible (N, A)
RN06	NH0001140	2212, Fusible (E, J)
RN07	NH0001140	1.2J, Fusible
RN08	NH0001140	1.2J, Fusible
RN09	NF0210140	100 25% Fuse
RN10	NF0210140	100 25% Fuse
RN11	G00610010	100 25% 1/8W

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
		PE01 TONE VOLUME CIRCUIT BOARD			PE01 BALANCE VOLUME CIRCUIT BOARD
PE01	YK178H8820	P.W. Board, Tone Volume	PGS1	YK178H3840	P.W. Board, Balance Volume
		P.W. Board Assembly			P.W. Board Assembly
		PE01 CAPACITORS	RG51	RM01040890	Variable Resistor 100K(1MN)
CE03	DF6271090	Film 270pF 55%			PE01 TAP MONITOR CIRCUIT BOARD
CE04	DF6271090	Film 270pF 55%			
CE05	DF5960520	Mica 96pF 55%			
CE06	DF5960520	Mica 96pF 55%			
CE07	DA22700610	Elect 220pF 6.3V	FJ01	YK178H1420	P.W. Board, Tap Monitor
CE08	DA22700610	Elect 220pF 6.3V			P.W. Board Assembly
CE09	DF59330520	Mica 38pF 55%			
CE10	DF59330520	Mica 38pF 55%			
CE11	DF18153010	Film 0.015uF 55%	CJ01	J	Ceramic Cap. 0.01uF +50% -20%
CE12	DF18153010	Film 0.015uF 55%	CJ02	DK18103310	Ceramic Cap. 0.01uF +50% -20%
CE13	DA10406010	Elect 0.1uF 50V			
CE14	DA10406010	Elect 0.1uF 50V			
CE15	DF18330210	Film 0.033uF 55%	JJ01	VT02040890	Terminal, 4P, RCA
CE16	DF18330210	Film 0.033uF 55%	JJ02	VT02040890	Terminal, 4P, RCA
CE17	DA447405010	Elect 0.47uF 50V	JJ03	YJ0002460	Jack, 3P
CE18	DA447405010	Elect 0.47uF 50V	JJ04	YJ0002460	Jack, 3P
CE19	DA44701010	Elect 47uF 10V			PE01 VOLUME/PUSH SWITCH CIRCUIT BOARD
CE20	DA44701010	Elect 47uF 10V			
CE21	DA22601610	Elect 22uF 16V	FS01	YK178H3810	P.W. Board, Volume/Push Switch
CE22	DA22601610	Elect 22uF 16V			P.W. Board Assembly
CE23	DF1533010	Film 3300pF 55%			
CE24	DF1533010	Film 3300pF 55%	C501	DF15102010	Ceramic Cap. 1000pF 50V
CE25	DA10701610	Elect 100pF 16V	C502	DF15102010	Ceramic Cap. 1000pF 50V
CE26	DA10701610	Elect 100pF 16V	RS02	GA05123010	Resistor 1.2K(1/2) 5% 1W
CE27	DA10701610	Elect 100pF 16V	RS10	RM05031255	Variable Resistor 50K(1/2)
CE28	DA10701610	Elect 100pF 16V			
CE29	DF15222250	Film 2200pF 55%	SS01	SP04030360	Push Switch
CE32	DF15222250	Film 2200pF 55%	SS02	SP04030360	Push Switch
		PE01 RESISTORS	SS03	SP04010220	Push Switch
RE37	RM01030310	10K(1/2), Variable	WS01	VJ06140280	Jumper Lead, 6P
RE38	RM01030310	10K(1/2), Variable	WS02	VJ07380280	Jumper Lead, 7P
RE39	NFG0470140	47(1) 5% 1/4W, Fuse	WS03	VJ07380280	Jumper Lead, 7P
RE40	NFG0470140	47(1) 5% 1/4W, Fuse	WS04	VJ04180280	Jumper Lead, 4P
		PE01 SEMICONDUCTORS	WS05	VJ04180280	Jumper Lead, 4P
DE01	HF20269180	F.E.T. 2SK369(BL)	WS06	VJ04120280	Jumper Lead, 4P
DE02	HF20269180	F.E.T. 2SK369	WS07	VJ04120280	Jumper Lead, 4P
DE03	HF20269180	F.E.T. 2SK369	WS08	YB00370050	Connective Cord, 3P
DE04	HF20269180	F.E.T. 2SK369	WS10	YB00370070	Connective Cord, 3P
DE05	HC10000990	IC N/A(504)1DD	WS11	YB00280360	Connective Cord, 4P
		PE01 MISCELLANEOUS			
JE01	YF00003440	Plug, 4P			
WE01	YB00280360	Connective Cord, 4P	FJ01	YK178H3440	P.W. Board, AVIS
WE02	YU03360200	Jumper Lead, 3P			P.W. Board Assembly
WE06	YU03360200	Jumper Lead, 3P			
		PE01 TONE DEFEAT SWITCH CIRCUIT BOARD			PE01 CAPACITORS
PE01	YK178H8880	P.W. Board, Tone Defeat Switch	CJ05	DA10601610	Elect 10uF 16V
		P.W. Board Assembly	CJ06	DA10601610	Elect 10uF 16V
SE01	SP2001420	Push Switch, Tone Defeat	CJ07	DA10601610	Elect 10uF 16V
			CJ08	DA10601610	Elect 10uF 16V
					PE01 SEMICONDUCTORS
			DJ01	HD20020000	Diode 1S113, etc.
			DJ02	HD20020000	Diode 1S113, etc.
			DJ03	HD20020000	Diode 1S113, etc.
			DJ04	HD20020000	Diode 1S113, etc.
			DJ05	HD20020000	Diode 1S113, etc.
			QJ01	HC10020090	IC N/A(203)D
			QJ02	HC712301AG	IC 74LS123P

REF. DESIG.	PART NO.	DESCRIPTION
JU01	YP07001810	PW01-MISCELLANEOUS
JU02	YP07001820	Plug, 1P
		Plug, 2P
PV01	YK178H1410	PW01-PHONE INPUT SELECTOR
	ZZ178H1410	P.W. Board, Phone Input Selector
		P.W. Board Assembly
		PW01-CAPACITORS
C401	DF58101510	Film 100pF 5%
C402	DF58101510	Film 100pF 5%
C403	DF58681510	Film 680pF 5%
C404	DF58681510	Film 680pF 5%
C406	OA10800610	Elect 1000pF 6.3V
C406	OA10800610	Elect 1000pF 6.3V
C407	OF19473010	Film 0.047uF 5%
C408	OF19473010	Film 0.047uF 5%
C409	OF15103010	Film 0.01uF 5%
C410	OF15103010	Film 0.01uF 5%
C411	OF15330010	Film 330pF 5%
C412	OF15330010	Film 330pF 5%
C413	OA10505010	Elect 1uF 50V
C414	OA10505010	Elect 1uF 50V
C415	OF15330010	Film 330pF 5%
C416	OF15330010	Film 330pF 5%
C417	OA44701510	Elect 47uF 15V
C418	OA44701510	Elect 47uF 15V
C419	DK18103310	Ceramic 0.01uF +80% -20%
C420	DK18103310	Ceramic 0.01uF +80% -20%
CV01	DK18103310	Ceramic 0.01uF +80% -20%
J		
CV08	DK18103310	Ceramic 0.01uF +80% -20%
		PW01-RESISTORS
R429	NF02070140	470 1% 1/4W Fuse
R430	NF02070140	470 1% 1/4W Fuse
		PW01-SEMICONDUCTORS
DV01	HC20001000	Diode 18155, etc.
DV02	HC20001000	Diode 18155, etc.
O401	HF20389180	F.E.T. 2SK3891BL
O404	HC10028090	IC NJM2041DD
		PW01-MISCELLANEOUS
J401	YP06003330	Plug, 3P
J402	YP06003330	Plug, 3P
J403	YT00020610	Terminal, 2P, RCA
JV01	YT00020280	Terminal, 2P, RCA
JV02	YT00020280	Terminal, 2P, RCA
JV03	YJ06002390	Jack, 6P
JV04	YJ06002450	Jack, 3P
JV05	YJ06002440	Jack, 4P
JV06	YJ06002450	Jack, 6P
LV01	LY20040230	Relay, CD Direct
LV02	LY20040230	Relay, Phone Direct
SV01	SS04600200	Slide Switch
WV01	YU06140280	Jumper Lead, 6P
WV02	YU06120280	Jumper Lead, 6P

(W01-69)	Assembly and Wiring
(T01-69)	Adjustment
(X01-00)	Correction

REF. DESIG.	PART NO.	DESCRIPTION
PW01	YK178H3420	PW01-SPEAKER PROTECTOR RELAY
	ZZ182H8420	P.W. Board, Speaker Protector Relay
		P.W. Board Assembly
		PW01-CAPACITORS
CW01	DF18224010	Film 0.22uF 5%
CW02	DF18224010	Film 0.22uF 5%
CW03	DF18224010	Film 0.22uF 5%
CW04	DF18224010	Film 0.22uF 5%
		PW01-RESISTORS
RW01	G060022120	2.2K 5% 1/4W
RW02	G060022120	2.2K 5% 1/4W
RW03	G060100030	10K 5% 1/4W
RW04	G060100030	10K 5% 1/4W
		PW01-SEMICONDUCTORS
DW01	HC00002000	Diode 1S8133, etc.
DW02	HC00002000	Diode 1S8133, etc.
		PW01-MISCELLANEOUS
JW01	YT01840010	Terminal, Speaker
JW02	YT01840020	Terminal, Speaker
JW03	YJ07001100	Jack, 5P
LW01	LL23805120	Choke Coil
LW02	LL23808120	Choke Coil
LW03	L20040280	Relay, Speaker
LW04	L20040280	Relay, Speaker
		PW01-SPEAKER SWITCH/PHONE
		CIRCUIT BOARD
		P.W. Board, Speaker Switch/Phone
		P.W. Board Assembly
PW01	YK178H3430	PW01-SPEAKER SWITCH/PHONE
	ZZ182H8430	P.W. Board, Speaker Switch/Phone
		P.W. Board Assembly
RW01	G060122010	Resistor 1.2K 5% 1/4W
RW02	G060122010	Resistor 1.2K 5% 1/4W
WV01	YU01000280	Jack, Handphone
WV02	YU01000280	Jack, Handphone
WV03	YU0220280	Jack, Switch, Speaker
WV04	YU0220280	Jack, Switch, Speaker
WV05	YU0220280	Jack, Switch, Speaker
WV06	YU0220280	Jack, Switch, Speaker
		PW01-INPUT SELECTOR DISPLAY
		CIRCUIT BOARD
PV01	YK178H2630	P.W. Board, Input Selector Display
	ZZ178H8630	P.W. Board Assembly
DY01	HI1008320	L.E.D. GL9HD4
DY02	HI1008320	L.E.D. GL9HD4
DY03	HI1008300	L.E.D. SLP281F-50U
DY04	HI1008300	L.E.D. SLP281F-50U
JY01	YJ07001090	Jack, 6P
JY02	YJ06002440	Jack, 4P
WY01	YU04400280	Jumper Lead, 4P
WY02	YU06160280	Jumper Lead, 6P

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

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR
 (1) G005 — 140, Carbon film fixed resistor, 25%, 1/4W
 (2) G005 — 160, Carbon film fixed resistor, 25%, 1/8W

⊖ — Resistance value
 Examples
 ⊖ Resistance value
 0.1k .05 100 100 140k 100 100k 104
 0.5k .005 18k 180 2.7k 272 680k 484
 1k .010 100k 100 130k 100 18k 106
 6.8k .068 390k .391 22k 223 4.7Mk 475

(Note) Please distinguish 1/4W from 1/8W by the shape of parts used actually.

CERAMIC CAP.
 (1) D01 — 370, Ceramic condenser
 Die type
 Temp. coeff. P350 — N1000, 50V
 ⊖ Capacity value
 ⊖ Tolerance

Examples
 ⊖ Tolerance (Capacity deviation)
 ±25% 0
 ±10% -1
 ±5% 2
 * Tolerance of COMMON PARTS handled here are as follows:
 0.1μF — 5μF — ±20%
 5μF — 10μF — ±10%
 10μF — 500μF — ±5%
 ⊖ Capacity value
 0.1μF .005 1μF .030 100μF 101
 1μF .010 10μF 100 220μF 221
 15μF .015 470μF 470 500μF 501

CERAMIC CAP.
 (1) DK16 — 300, High dielectric constant ceramic condenser
 Die type
 Temp. chara. 284, 30V
 ⊖ Capacity value

Example
 ⊖ Capacity value
 100μF .101 1000μF .102 10000μF .103
 470μF .471 2200μF .222

ELECTROLYTIC CAP. (E), FILM CAP. (F)
 (1) E — 10, Electrolytic condenser
 ⊖ One-way lead type, Tolerance 20%
 ⊖ Electrolytic strength
 ⊖ Capacity value

Examples
 ⊖ Capacity value
 0.1μF .104 4.7μF .476 100μF .107
 0.33μF .334 10μF .106 330μF .337
 1μF .106 22μF .226 1100μF .108
 2200μF .208
 ⊖ Working voltage
 6.3V .008 25V .025
 15V .010 25V .028
 16V .016 50V .050

(2) DF15 — 350, Plastic film condenser
 Die-wire type, Mylar, 15%, 50V
 ⊖ Capacity value

Examples
 ⊖ Capacity value
 0.001μF (1000pF) .102 0.1μF .104
 0.01μF .102 0.68μF .684
 0.05μF .103 1μF .106
 0.015μF .103

(Model PM-541)

REF. DESIG.	PART NO.	DESCRIPTION
P701	YK176H3410 Z2176H8110 Z2176H7410	P701-MAIN AMP CIRCUIT BOARD P.W. Board, Main Amp. P.W. Board Assembly [N, A] P.W. Board Assembly [E, G]
CN01	DA47605010	Elect. 4.7μF 50V
CN02	DA47605010	Elect. 4.7μF 50V
CN04	DA22601010	Elect. 22μF 16V
CN05	DA22601010	Elect. 22μF 16V
CN06	DA47703010	Elect. 47μF 35V
CN07	DA47703010	Elect. 47μF 35V
CN08	DA47703010	Elect. 47μF 35V
CN09	DA32701010	Elect. 32μF 35V
CN04	DA32701010	Elect. 32μF 35V
CN05	DA22701010	Elect. 22μF 16V
CN06	DA22701010	Elect. 22μF 16V
CN08	DK18103580	Ceramic 0.01μF [N, A]
CN90	DK18103580	Ceramic 0.01μF [N, A]
C701	DF15272010	Film 2700pF 5%
C702	DF15272010	Film 2700pF 5%
C703	DA10655010	Elect. 10μF 50V
C704	DA10655010	Elect. 10μF 50V
C705	DA22700610	Elect. 22μF 6.3V
C706	DA22700610	Elect. 22μF 6.3V
C707	DF15152010	Film 1500pF 5%
C708	DF15152010	Film 1500pF 5%
C709	DF52221010	Film 220pF 5%
C710	DF52221010	Film 220pF 5%
C711	DF35105020	Mica 10pF 5%
C712	DF35105020	Mica 10pF 5%
C713	DA22710010	Elect. 22μF 100V
C714	DA22710010	Elect. 22μF 100V
C715	DA10701010	Elect. 100μF 16V
C716	DA10701010	Elect. 100μF 16V
C717	DF35101520	Mica 150pF 5%
C718	DF35101520	Mica 150pF 5%
C719	DF31100520	Mica 10pF 5%
C720	DF31100520	Mica 10pF 5%
C751	DF56151000	Film 150pF 5%
C752	DF56151000	Film 150pF 5%
C753	DA10610010	Elect. 10μF 100V
C754	DA10610010	Elect. 10μF 100V
C755	DF15103010	Film 0.01μF 5%
C756	DA33706310	Elect. 330pF 63V
C757	DA33706310	Elect. 330pF 63V
RN01	G006102140	1KΩ
RN02	G006102140	1KΩ
RN03	G006102140	1KΩ
RN04	G006102140	1KΩ
RN27	G006220140	22Ω (E, G)
RN28	NF0220140	22Ω, Fuse 5% (N, A)
RN81	NH0012140	1.2Ω, Fusible
RN82	NH0012140	1.2Ω, Fusible
RN83	G006100120	10Ω 1W
RN84	G006100120	10Ω 1W
RN85	NF02100140	10Ω, Fuse

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION		
		P81-POWER SUPPLY CIRCUIT BOARD			P82-RESISTORS		
P81	YK178H1440 ZZ178H1440	F.W. Board, Power Supply F.W. Board Assembly	RE30	NF02100140	10Ω 25% 1/4W, Fuse		
ΔCB81	EB1200310	Elect. Cap. 1200μF 63V	RE40	NF02100140	10Ω 25% 1/4W, Fuse		
ΔCB82	EB1200310	Elect. Cap. 1200μF 63V			P83-SEMICONDUCTORS		
ΔCB83	EB82804010	Elect. Cap. 820μF 40V	D001	HD00001160	C.R. Diode E-652		
ΔCB84	EB82804010	Elect. Cap. 820μF 40V	D002	HD00001160	C.R. Diode E-652		
		P81-TONE VOLUME(L) CIRCUIT BOARD	O001	HF20389180	F.E.T. 2SK-369(8L)		
PE01	YK178H1090 ZZ178H1090	F.W. Board, Tone Volume(L) F.W. Board Assembly	O002	HF20389180	F.E.T. 2SK-369(8L)		
CE11	OF16153010	Film 0.015μF 5%	O003	HF20389180	F.E.T. 2SK-369(8L)		
CE13	OA10405010	Elect. 0.1μF 50V	O004	HF20389180	F.E.T. 2SK-369(8L)		
CE16	OF16153010	Film 0.015μF 5%	O005	HF20389180	F.E.T. 2SK-369(8L)		
CE17	OA47405010	Elect. 0.47μF 50V	O006	HC10020000	IC NA020410D		
CE18	OA47405010	Elect. 0.47μF 10V			P84-MISCELLANEOUS		
RE41	RK01030630	Variable Resistor 10K(10), Taper	JE02	YJ06002440	Jack, 4P		
RE42	RK01030630	Variable Resistor 10K(10), Bass	JE03	YJ06002440	Plug, 4P		
WE05	YB00202030	Connective Cord, 3P	JE04	YJ06003330	Plug, 4P		
		P82-TONE VOLUME(R) CIRCUIT BOARD	JE05	YJ06003330	Plug, 3P		
PE02	YK178H1030 ZZ178H8070	F.W. Board, Tone Volume(R) F.W. Board Assembly	JE06	YJ06003330	Plug, 3P		
CE12	OF16153010	Film Cap. 0.015μF 5%	WE01	YB00203080	Connective Cord, 2P		
CE14	OA10405010	Elect. Cap. 0.1μF 50V			P81-TONE DEFEAT SWITCH CIRCUIT BOARD		
CE16	OF16153010	Film Cap. 0.015μF 5%	PE51	YK178H1090 ZZ178H8090	F.W. Board, Tone Defeat Switch F.W. Board Assembly		
CE18	OA47405010	Elect. Cap. 0.47μF 50V	SE51	SP02011420	Push Switch, Tone Defeat		
CE30	OA47801010	Elect. Cap. 47μF 10V	WE02	YB00240150	Connective Cord, 4P		
RE37	RK01030630	Variable Resistor 10K(10), Taper	WE04	YB00202030	Connective Cord, 4P		
RE38	RK01030630	Variable Resistor 10K(20), Bass			P81-TAPE MONITOR CIRCUIT BOARD		
WE06	YB00160280	Connective Cord, 3P	PJ01	YK178H1420 ZZ178H1420	F.W. Board, Tape Monitor F.W. Board Assembly		
		P82-TONE UNIT CIRCUIT BOARD	CJ01	DK18103310	Ceramic Cap. 0.01μF +50% -20%		
PE50	YK178H1030 ZZ178H8020	F.W. Board, Tone Unit F.W. Board Assembly			J001	YT02040090	Terminal, 4P, RCA
		P83-CAPACITORS	J002	YT02040090	Terminal, 4P, RCA		
CE01	DF35220020	Mica 22pF 5%	J003	YJ06002440	Jack, 7P		
CE02	DF35220020	Mica 22pF 5%	J004	YJ06002440	Jack, 7P		
CE03	OF15182010	Film 180pF 5%			P81-BUREAC OUTLET CIRCUIT BOARD(P81-74D)		
CE04	OF15182010	Film 180pF 5%	FP01	YK178H1080	F.W. Board, Fuse/AC Outlet		
CE05	DF35660020	Mica 66pF 5%	ΔF001	FS10000000	Fuse 8A 250V (F)		
CE06	DF35660020	Mica 66pF 5%			JF01	YJ06000170	Jack, Fuse Clip (F)
CE07	OA22700610	Elect. 220pF 6.3V	JF02	YJ06000170	Jack, Fuse Clip (F)		
CE08	OA22700610	Elect. 220pF 6.3V	JF03	YJ06003340	Plug, 2P (F)		
CE09	DF35101520	Mica 100pF 5%					
CE10	DF35101520	Mica 100pF 5%					
CE21	OA22801610	Elect. 22μF 16V					
CE22	OA22801610	Elect. 22μF 16V					
CE23	OF1532010	Film 330pF 5%					
CE24	OF1532010	Film 330pF 5%					
CE25	OA22701610	Elect. 220pF 16V					
CE26	OA22701610	Elect. 220pF 16V					
CE27	OA22701610	Elect. 220pF 16V					
CE28	OA22701610	Elect. 220pF 16V					

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
		FS01-VOLUME/PUSH SWITCH CIRCUIT BOARD			PV01-SEMICONDUCTORS
FS01	YK178H1010 ZZ178H8010	P.W. Board, Volume/Push Switch P.W. Board Assembly	DU01	HD20011090	Diode 1S1565
CS03	OA10409010	Elect. Cap. 0.1uF 50V	DU02	HD20011090	Diode 1S1565
CS04	OA10409010	Elect. Cap. 0.1uF 50V	DU03	HD20011090	Diode 1S1565
RS07	GA05122010	Resistor 1.2KΩ 25% 1W	DU04	HD20011090	Diode 1S1565
RS11	RM01040940	Variable Resistor 100KΩ(MN)	DU05	HD30001020	Zener MA1023
SS01	SP04030380	Push Switch	DU06	HD30001020	Zener MA1023
SS02	SP04030370	Push Switch	DU07	HD30004020	Zener MA1021
SS03	SP04010520	Push Switch	DU08	HD20002000	Diode 1S3133, etc.
WJ03	YU07402080	Jumper Lead, 7P	DU09	HD20002000	Diode 1S3133, etc.
WJ04	YU07402080	Jumper Lead, 7P	QU01	HC10009090	IC NJM2901
WJ01	YB00201370	Connective Cord, 3P	QU02	HCT12001A0	IC 74LS123P
WJ02	YB00201380	Connective Cord, 3P	QU03	HW10006030	Photo Unit PCB47
WJ03	YB00205080	Connective Cord, 2P	QU04	HT32785DC0	Transistor 2SC2785(HF, FF)
WJ04	YB00205080	Connective Cord, 2P	QU05	HT32785DC0	Transistor 2SC2785(HF, FF)
WJ05	YU04120280	Jumper Lead, 4P			PV01-MISCELLANEOUS
WJ06	YU04020280	Jumper Lead, 4P	JU01	YP07001010	Plug, 11P
WJ08	YU05140280	Jumper Lead, 8P	JU02	YP07001020	Plug, 2P
WJ07	YU04020280	Jumper Lead, 4P			PV01-PHONE INPUT SELECTOR CIRCUIT BOARD
WJ03	YU04090280	Jumper Lead, 4P	PV01	YK178H1410 ZZ178H1410	P.W. Board, Phone Input Selector P.W. Board Assembly
		FS02-MASTER VOLUME CIRCUIT BOARD			PV01-CAPACITORS
FS02	YK178H10A0 ZZ178H0A0	P.W. Board, Master Volume P.W. Board Assembly	C401	DF56101510	Film 100uF 25%
CS01	OF15102010	Film Cap. 1000uF 5%	C402	DF56101510	Film 100uF 25%
CS02	OF15102010	Film Cap. 1000uF 5%	C403	DF56881510	Film 880uF 25%
RS10	RM56031270	Variable Resistor 50KΩ(B)	C404	DF56881510	Film 880uF 25%
JS01	YP06003410	Plug, 2P	C405	DA28000610	Elect 2200uF 6.3V
JS02	YP06003410	Plug, 2P	C406	DA28000610	Elect 2200uF 6.3V
WE02	YU04070280	Jumper Lead, 4P	C407	OF18470010	Film 0.047uF 55%
		PV01-AVSS CIRCUIT BOARD	C408	OF18470010	Film 0.047uF 55%
PV01	YK178H10A0 ZZ178H80A0	P.W. Board, AVSS P.W. Board Assembly	C409	OF15102010	Film 0.01uF 25%
CU03	OA10601810	Elect 10uF 16V	C410	OF15102010	Film 0.01uF 25%
CU04	OA10601810	Elect 10uF 16V	C411	OF15320010	Film 3300uF 55%
CU07	OA10601810	Elect 10uF 16V	C412	OF15320010	Film 3300uF 55%
CU08	OA10601810	Elect 10uF 16V	C413	OA15601810	Elect 10uF 16V
CU09	OA10601810	Elect 10uF 16V	C414	OA15601810	Elect 10uF 16V
CU14	OA10601810	Elect 10uF 16V	C415	OF15320010	Film 3300uF 55%
		PV01-RESISTORS	C416	OF15320010	Film 3300uF 55%
RU21	GA05020110	220Ω 25% 1/4W	C417	DA47701810	Elect 470uF 16V
RU22	RA01030780	10KΩ, Trimming	C418	DA47701810	Elect 470uF 16V
RU23	RA01030780	10KΩ, Trimming	C419	DK18103310	Ceramic 0.01uF +80% -20%
RU24	RA01030780	10KΩ, Trimming	C420	DK18103310	Ceramic 0.01uF +80% -20%
RU25	RA01030780	10KΩ, Trimming			PV01-RESISTORS
RU26	RA01030780	10KΩ, Trimming	RV20	NFG2470140	47Ω 21% 1/4W, Fuse
			RV30	NFG2470140	47Ω 21% 1/4W, Fuse
			D401	HD60001160	PV01-SEMICONDUCTORS
			D402	HD60001160	C.R. Diode E-452
			DV01	HD20022030	Diode DSF10C
			DV02	HD20022030	Diode DSF10C
			O401	J	
			O401	HF20289180	F.E.T. 2SK368(BL)
			O404	J	
			O405	HC10026090	IC NJM2041DD

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
PW01-MISCELLANEOUS			PW01-MISCELLANEOUS		
J401	YF06003330	Plug, 3P	JW01	YF01040260	Terminal, Speaker
J402	YF06003330	Plug, 3P	JW02	YF01040270	Terminal, Speaker
J403	YT02020610	Terminal, 2P, RCA	JW03	YF06001040	Plug, 3P
JV01	YT02020280	Terminal, 2P, RCA	JW04	YF06001940	Plug, 3P
JV02	YT02020280	Terminal, 2P, RCA	JW13	YJ07001100	Jack, 5P
JV03	YJ06002390	Jack, 5P	LW01	LJ31115080	Choke Coil
JV04	YJ06002440	Jack, 4P	LW02	LJ31115080	Choke Coil
JV05	YJ06002440	Jack, 4P	LW03	LY20240190	Relay, Speaker
JV06	YJ06002440	Jack, 4P	LW04	LY20240190	Relay, Speaker
JV07	YJ06002440	Jack, 4P	PW01-SPEAKER SWITCHPHONE		
JV08	YJ06002440	Jack, 4P	CIRCUIT BOARD		
JV10	YJ06002390	Jack, 5P	PW51	YK176H0430	P.W. Board, Speaker Switch/Phone
LV01	LV20240230	Relay, CD Direct	ZZ176H0430	ZZ176H0430	P.W. Board Assembly
LV02	LV20240230	Relay, Phone Direct	RW51	GA06122010	Resistor 1.2KΩ 5% 1W
SV01	SS04060020	Slide Switch	RW52	GA06122010	Resistor 1.2KΩ 5% 1W
SV02	SS04060010	Slide Switch	JW51	YJ01002340	Jack, Headphone
W401	Y800370060	Connective Cord, 3P	SWS1	SP02020840	Push Switch, Speaker
W402	Y800370070	Connective Cord, 3P	WW51	YU02380260	Jumper Lead, 2P
WV01	YU06140260	Jumper Lead, 6P	WW52	YU06402060	Jumper Lead, 5P
WV02	YU06120260	Jumper Lead, 6P	PW01-INPUT SELECTOR DISPLAY		
WV04	YU06102060	Jumper Lead, 6P	CIRCUIT BOARD		
PW01-SPEAKER PROTECTOR RELAY			PY01	YK176H1030	P.W. Board, Input Selector Display
CIRCUIT BOARD			ZZ176H0500	ZZ176H0500	P.W. Board Assembly
PW01	YK176H1050	P.W. Board, Speaker Protector Relay	DY01	HI10028220	L.E.D. GL9HD4
PW01-CAPACITORS			DY02	HI10038000	L.E.D. SLP281F-50U
CM01	OF1524010	Film 0.22μF 5%	J505	YJ06002440	Jack, 4P
CM02	OF1524010	Film 0.22μF 5%	JY01	YJ07001050	Jack, 4P
CM03	OF1524010	Film 0.22μF 5%	JY02	YJ06002440	Jack, 4P
CM04	OF1524010	Film 0.22μF 5%	JY03	YJ06002440	Jack, 4P
PW01-RESISTORS			WY01	YU04400260	Jumper Lead, 4P
RW01	G006022120	2.2Ω 5% 1/8W	WY02	YU06180260	Jumper Lead, 6P
RW02	G006022120	2.2Ω 5% 1/8W			
RW03	GA06100030	10Ω 5% 3W			
RW04	GA06100030	15Ω 5% 3W			
RW05	GA06310300	330Ω 5% 3W			
RW06	GA06310300	330Ω 5% 3W			
PW01-SEMICONDUCTORS					
DW01	HD20020200	Diode DSF10C			
DW02	HD20020200	Diode DSF10C			

IK01 001	Assembly and Wiring
IK01 001	Adjustment
IK01 001	Correction

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

9. TECHNICAL SPECIFICATIONS

(Model PM-54II)

AUDIO SECTION

IHF Dynamic Power	
4 OHMS	140 W
8 OHMS	100 W

POWER OUTPUT PER CHANNEL

DIN 4 OHMS	100 W
RMS 4 OHMS (20 Hz - 20 kHz)	70 W
DIN 8 OHMS AT 1 kHz	80 W
RMS 8 OHMS (20 Hz - 20 kHz)	60 W
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	0.02 %
I.M. DISTORTION	
DAMPING FACTOR 8 OHMS (1 kHz)	100

MM CARTRIDGE INPUT

Frequency Response (IEC RIAA)	±0.5 dB
Signal-to-Noise Ratio (IEC A weighted)	86 dB
Input Impedance	47 k ohms
Input Capacitance	200 pF
Input Sensitivity	2.5 mV
Equivalent Input Noise	0.25 µV
Dynamic Range	113 dB

MC CARTRIDGE INPUT

Input Sensitivity	250 µV
Input Impedance	100 ohms

CD-TUNER-TAPE INPUT

Input Impedance	20 k ohms
Input Sensitivity	150 mV
Frequency Response +0, -1 dB	10 Hz - 70 kHz
Signal to Noise Ratio (IEC A weighted)	96 dB

OUTPUT VOLTAGE

Tape Out [PHONO (MM) 7.75 mV]	465 mV
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OUTPUT IMPEDANCE

Tape Out	220 ohms
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GENERAL

Power Requirements N and T versions	220/240 V AC, 50/60 Hz
E version	110/120/220/240 V AC, 50/60 Hz
Power Consumption at Rated Output, both Channels Operating	250 W
Dimensions	
Panel Width	416 mm
Panel Height	116 mm
Depth	334 mm
Weight	
Unit Alone	9.5 kg

(Model PM-64II)

AUDIO SECTION

IHF Dynamic Power
4 OHMS 225 W
8 OHMS 146 W

POWER OUTPUT PER CHANNEL
DIN 4 OHMS 160 W
RMS 4 OHMS (20 Hz - 20 kHz) 105 W
DIN 8 OHMS AT 1 kHz 115 W
RMS 8 OHMS (20 Hz - 20 kHz) 100 W
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS 0.02 %
I.M. DISTORTION 0.02 %
DAMPING FACTOR 8 OHMS (1 kHz) 100

MM CARTRIDGE INPUT
Frequency Response (IEC RIAA) 40.5 dB
Signal-to-Noise Ratio (IEC A weighted) 86 dB
Input Impedance 47 k ohms
Input Capacitance 200 pF
Input Sensitivity 2.5 mV
Equivalent Input Noise 0.25 μ V
Dynamic Range 113 dB

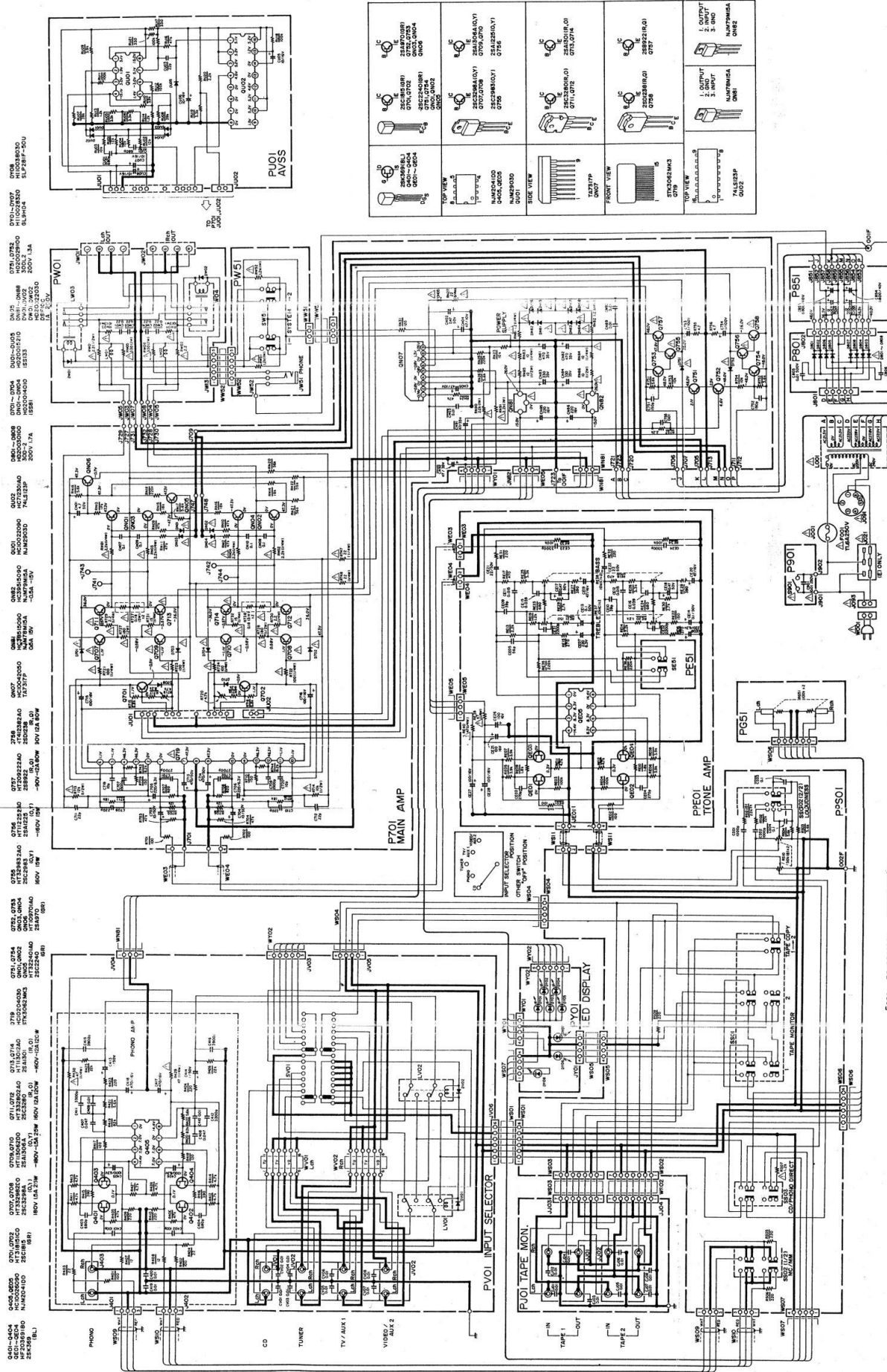
MC CARTRIDGE INPUT
Input Sensitivity 250 μ V
Input Impedance 100 ohms

CD-TUNER-TAPE INPUT
Input Impedance 20 k ohms
Input Sensitivity 150 mV
Frequency Response +0, -1 dB 10 Hz ~ 70 kHz
Signal to Noise Ratio (IEC A weighted) 96 dB

OUTPUT VOLTAGE
Tape Out [PHONO (MM) 7.75 mV] 465 mV

OUTPUT IMPEDANCE
Tape Out 220 ohms

GENERAL
Power Requirements N and T versions 220/240 V AC, 50/60 Hz
E version 110/120/220/240 V AC, 50/60 Hz
Power Consumption at Rated Output, both Channels Operating 380 W
Dimensions
Panel Width 416 mm
Panel Height 146 mm
Depth 354 mm
Weight
Unit Alone 12.5 kg



- FS10200850 FUSE 2A 250V
 F001 TS18507850 POWER TRANSFORMER (N.N. A)
 L001 S905 ROTARY SWITCH (EE)
 S905 ROTARY SWITCH TREBLE :
 R627 RE39 VARIABLE 10KΩ BASS :
 RE39 SP02011420 PUSH SWITCH DEFEAT
 SE51 RM01040890 VARIABLE 100KΩ BALANCE
 RG51 RM05031250 VARIABLE 50KΩ MAIN BALANCE
 SS10 SP04020900 PUSH SWITCH MONITOR
 SS02 SP04020900 PUSH SWITCH LOUDNESS
 SS03 SP04010520 PUSH SWITCH CD DIRECT
 LV01 LY20240230 RELAY PHONO DIRECT
 LV02 LY20240230 RELAY PHONO DIRECT
 LV03 LY20240280 RELAY SPEAKER
 LV04 LY20240280 RELAY SPEAKER
 SW51 SP02020940 PUSH SWITCH SPEAKER
 R719 RA04720750 TRIMMING 4.7KΩ
 SP01011100 PUSH SWITCH POWER

*SERVICE INFORMATION IS FOR USE BY QUALIFIED PERSONNEL ONLY - ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY REPAIR BY ANY MARANTZ SERVICE CENTRE -

Kind of Common Parts

- RESISTOR**
 R*** (1) GD05...140, Carbon film fixed resistor, ±5% 1/4W
 R*** (2) GD05...160, Carbon film fixed resistor, ±5% 1/6W
CAPACITOR
 C*** (1) DD1...370, Ceramic capacitor, disc type (titanium) Temp. coeff. P250 ~ N1000 ±0 / 1000 pF
 C*** (2) DK10...300, High dielectric constant ceramic capacitor, disc type (titanium) Temp. chara. B24 50V

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

Components and wiring are subject to change for modification without notice.

*In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES".