

SERVICE  
MANUAL

PM55

4822 725 50851

**marantz**®

model PM-55

*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.

MARANTZ INTERNATIONAL  
Velddyk 9  
5600 MD Eindhoven  
The Netherlands  
Phone: +31(40) 752290  
Telefax: +31(40) 75 82 99  
Telex: 35000 PHTC NL routing IND NLMFAT

#### PARTS ORDERING

Parts may be ordered or advice can be given at the following addresses:

<b>AUSTRIA</b> MARANTZ Hochrager Kae 137a 1100 Wien	<b>FRANCE</b> MARANTZ FRANCE 4 Rue Bernard Palissy 20000 Antibes France Telex: 611651	<b>GREAT BRITAIN</b> MARANTZ (U.K.) LTD. Kingbridge House Palmyra Gate 51-55B Bath Road Long Hanborough Oxford OX9 0DA Faxon: 0733 660 426	<b>ITALY</b> MARANTZ ITALIANA S.P.A. Via Cressa, 74 20126 Milano Italy	<b>NETHERLANDS</b> MARANTZ Velddyk 9 5600 MD Eindhoven The Netherlands Phone: +31(40) 752290 Telefax: +31(40) 75 82 99 Telex: 35000 PHTC NL routing IND NLMFAT	<b>SWITZERLAND</b> MARANTZ Technischer Service Quartstrasse 9 2180 Dulligen Switzerland
<b>BELGIUM</b> MARANTZ EUROPE B.V. Dix Drieveld P.O. Box 216 Building PC49 3000 MC Mechelen The Netherlands Fax: 31 01 31	<b>GERMANY</b> MARANTZ GERMANY GmbH Hauptstrasse 1 2000 Hamburg Germany	<b>GREECE</b> SPECTRA ELECTRONICS S.A. P.O. Box 2102 Hippokratia Street 188 Athens 1421 Greece Telex: 216 795	<b>SARAWAK</b> AL ALAMAH ELECTRONICS P.O. Box 954 University Street Kuching 9402 Sarawak Tele: 40100	<b>SPAIN</b> MARANTZ DIVISION OF PHILIPS S.A. Marques de Vitoria P.O. Box 30000 Navarra 21114 Spain-Atx	<b>TURKEY</b> DOĞRULU LTD. I.M.C. 4 Blok N/9310 Unvanli Istanbul Tele: 22065
<b>CHILE</b> MARANTZ DIVISION OF PHILIPS S.A. A.V. Santa Maria, 2700 Santiago Tele: 40 238	<b>THE NETHERLANDS</b> MARANTZ EUROPE B.V. Dix Drieveld P.O. Box 216 Building PC49 3000 MC Mechelen The Netherlands Phone: +31(40) 752290 Telefax: +31(40) 75 82 99	<b>JAPAN</b> MARANTZ JAPAN, INC. 35-1, 7-chome, Sagami-cho Sagamihara-shi, Kanagawa Japan	<b>SOUTH AFRICA</b> MARANTZ DIVISION OF PHILIPS S.A. Marques de Vitoria P.O. Box 30000 Navarra 21114 South Africa	<b>MALTA</b> CACHIA & SALLEA Health Street, 680 Valletta Tele: 1422	<b>PORTUGAL</b> MARANTZ Divisão Philips S.A. Serviço Atendimento ao Cliente 2706 Lado A, VELHA Tele: 4396
<b>DENMARK</b> MARANTZ Horsensvej 5 8000 Tårnby	<b>SWEDEN</b> MARANTZ Box 124 171 25 Solna	<b>FINLAND</b> MARANTZ Kortteentie 1 00200 Helsinki 02	<b>SPAIN</b> MARANTZ DIVISION OF PHILIPS S.A. Marques de Vitoria, 26 26100 Atxerri Faxon: 3412 206 186	<b>NORWAY</b> MARANTZ Postboks 7034 Aasen 2007 Drammen	

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 above mentioned 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 12 N/C'S following the procedure mentioned in this service manual "How to establish the parts number for common parts".
- 1) Please correctly write the parts number of 12 N/C'S following the rule.

## MODEL PM-55 STEREO AMPLIFIER



### 1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM-55 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.

- 1. Tone Amp. .... mounted on P.W. Board PE01
- 2. Master Volume ..... mounted on P.W. Board PG01
- 3. Tape Monitor ..... mounted on P.W. Board PJ01
- 4. Front Switch ..... mounted on P.W. Board PG01
- 5. CD Direct Switch ..... mounted on P.W. Board PG01
- 6. Input Selector, Phone ..... mounted on P.W. Board PV01
- 7. Headphone, Speaker Switch ..... mounted on P.W. Board PW01
- 8. Input Selector, Indicator ..... mounted on P.W. Board PY01
- 9. Function LED Indicator ..... mounted on P.W. Board PY01
- 10. Main Amp ..... mounted on P.W. Board PZ01
- 11. Power Supply ..... mounted on P.W. Board P901
- 12. Power Switch ..... mounted on P.W. Board P901

### 2. ADJUSTMENT PROCEDURE

1. Test Points  
Left channel: J705 (+), J707 (-)  
Right channel: J706 (+), J708 (-)
2. Adjustment Points  
Left channel: RT19 2.2k ohm variable resistor  
Right channel: RT20 2.2k ohm variable resistor
3. Adjustment Procedure
  - (1) Before turning on the set's power, turn variable resistors R719 and R720 in the direction in which the current does not flow (clockwise for R719, counterclockwise for R720).
  - (2) Connect the DC digital voltmeter to the test points with the proper polarities. (Adjust both channels at once.)
  - (3) Set the set's volume to minimum, the speaker terminals to no load, and the input to open.
  - (4) Set the following after turning on the power:  
After 30 seconds: 8 to 9 mV (22 to 25 mA)  
After 1 minute: 9 to 10 mV (25 to 27 mA)  
Be sure to set for 9 to 10 mV (25 to 27 mA) when the circuitry becomes stable.
4. Notes  
When readjusting sets which have been heated up for repairs, etc., conduct a heat run at an idle for about 10 minutes, then set for 9 to 10 mV (25 to 27 mA).

### 3. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-55 Stereo Amplifier.

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 primary power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

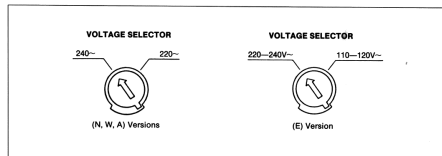
### 4. VOLTAGE CONVERSION

#### • EUROPEAN MODEL ONLY

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

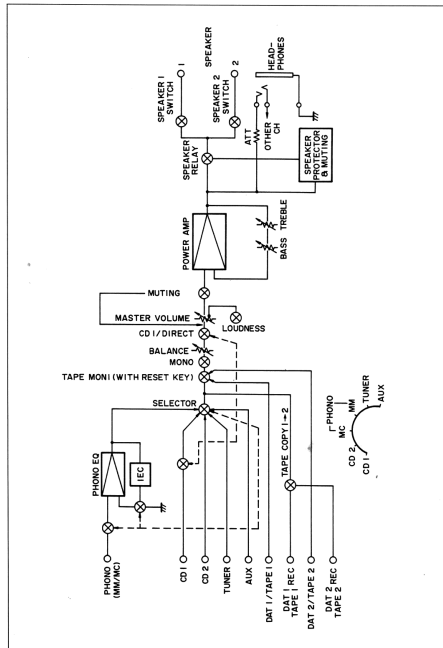
**CAUTION**  
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



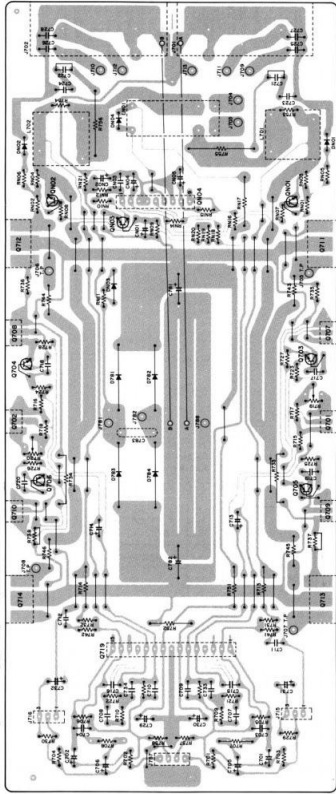
**Note on Safety:** Symbol ⚠. Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

5. BLOCK DIAGRAM

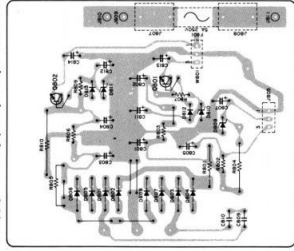


6. PARTS LOCATIONS (Pattern Side)

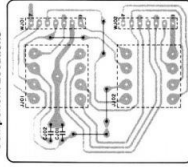
6.1 Main Amp Assembly (P701) Component Locations



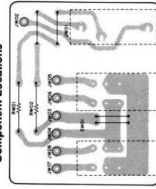
6.3 Power Supply Assembly (P801) Component Locations



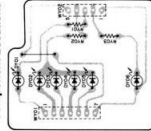
6.4 Tape Monitor Assembly (P101) Component Locations



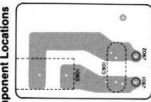
6.5 Headphones, Speaker Switch Assembly (P901) Component Locations



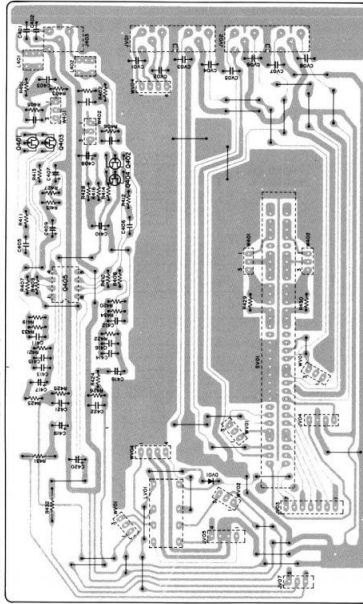
6.7 Input Selector, Indicator Assembly (P701) Component Locations



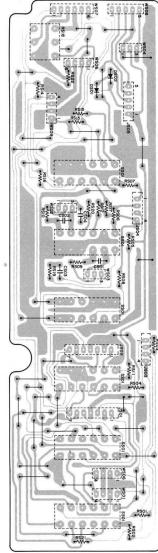
6.6 Power Switch Assembly (P901) Component Locations



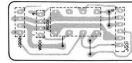
6.2 Input Selector, Phono Assembly (P701) Component Locations



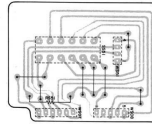
**6.8 Front Switch Assembly (PS01)  
Component Locations**



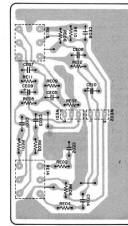
**6.9 Master Volume Supply Assembly (PG01)  
Component Locations**



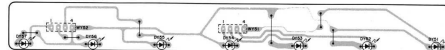
**6.10 CD Direct Switch Assembly (PS51)  
Component Locations**



**6.11 Tone Amp Assembly (PE01)  
Component Locations**

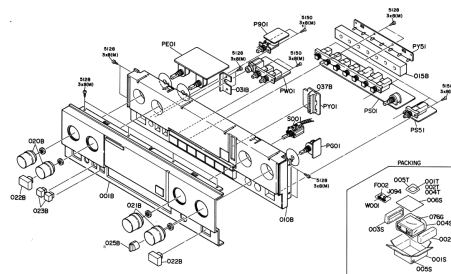


**6.12 Function LED Indicator Assembly (PY51) Component Locations**

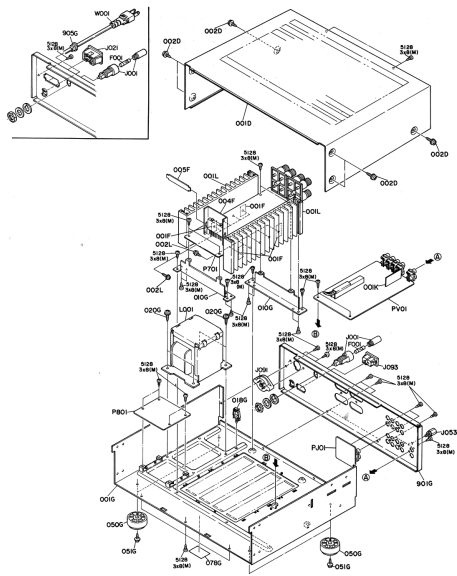




7. EXPLODED VIEW AND PARTS LIST



REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
001B	4822 436 51264	Front Panel Assembly	001T	4822 736 13907	PACKING
010B	4822 426 51265	Front Panel Assembly, Chassis	005T	4822 600 70363	User Manual Polyethylene Bag
015B	4822 409 48263	Misc.	0795	4822 530 20609	Stems, AC Cord (E)
020B	4822 412 20684	Knob, Tone Control			
021B	4822 412 20683	Knob, Volume/Selector			
022B	4822 412 20685	Button, Power/Driver			
023B	4822 410 24636	Button, Speaker			
029B	4822 412 20157	Knob, Balance	Δ F002	4822 253 30027	Fuse T3.15A 250V (E)
031B	4822 356 91366	Resistor, Headphones	Δ J094	4822 265 10092	Jack, AC Adapter (E)
037B	4822 386 20311	Reflector, LED	Δ W001	4822 221 21123	A.C. Power Cord (N,W)
8001	4822 273 10168	Rotary Switch, Selector		4822 221 10418	A.C. Power Cord (A)



REF. DESIG.	PART NO.	DESCRIPTION
001D	4822 426 60548	Lid, Top Cover
002D	4822 501 11008	B.T. Screw 84 x 8
001F	4822 466 02249	Insulator (Q711-Q714)
004F	4822 235 40867	Mounting (Q719)
005F	4822 492 53973	Spring
018G	4822 401 11192	Clamp, Wire
020G	4822 501 11008	B.T. Screw 84 x 8
050G	4822 462 10312	Lag
051G	4822 501 11008	B.T. Screw 84 x 8
078G	4822 600 70229	Label, Caution
901G	4822 426 60551	Rear Panel [A, W]
	4822 426 60547	Rear Panel [E]
905G	4822 532 51104	Bushing, AC Power Cord [E]
001K	4822 454 12142	Shield
002L	4822 502 12512	B.T. Screw 83 x 12
Δ F001	4822 253 30191	Fuse T1.6A 250V
Δ J001	4822 256 30233	Jack, Fuse Holder
Δ J021	4822 267 40863	Jack, AC Outlet [E]
J053	4822 290 40297	Terminal, GND
Δ J091	4822 272 10236	Voltage Selector [N, A, W]
	4822 272 10227	Voltage Selector [E]
Δ J093	4822 285 20222	Plug, AC Inlet [N, A, W]
Δ L001	4822 130 61184	Power Transformer [E]
Δ W001	4822 321 10427	A.C. Power Cord [E]

8. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

**RESISTOR**  
 (1) 220Ω...140. Carbon film fixed resistor, 15%, 1/4W  
 (2) 220Ω...160. Carbon film fixed resistor, 15%, 1/4W

Examples  
 Resistance value  
 0.10 201 100 141 102 102M 104  
 0.51 .05 181 .180 2.7M 272 680M 684  
 10 20 1000 101 10M 102 10M 105  
 6.80 .068 3901 .391 22M 223 4.7M 475

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

**CERAMIC CAP**  
 (1) 221. Ceramic condenser  
 Disc type  
 Temp. coeff. P930 ~ N1000, 50V

Examples  
 Tolerance (Capacity deviation)  
 ±0.5% 0  
 ±1% 1  
 ±5% 5

\* Tolerance of COMMON PARTS handled here are as follows:  
 ±0.5% 0  
 ±1% 1  
 ±5% 5

Capacity value  
 0.01 0.05 0.1 0.33 1.0 10 100 1000 101  
 1000 1000 1000 1000 2200 221  
 1000 0.01 0.01 470 5000 501

**CERAMIC CAP**  
 (1) DK16...350. High dielectric constant ceramic condenser  
 Disc type  
 Temp. coeff. 284, 50V

Example  
 Capacity value  
 1000 101 10000 102 100000 103  
 4700 471 22000 222

**ELECTROLYTIC CAP & FILM CAP**  
 (1) 14...10. Electrolytic condenser  
 One-way lead type, Tolerance ±20%

Examples  
 Capacity value  
 0.1μF .104 4.7μF .475 100μF .107  
 0.33μF .334 10μF .106 330μF .337  
 1μF .105 22μF .226 1100μF .108

(2) DF15...350. Plastic film condenser  
 One-way type, Meter ±5%, 50V

Examples  
 Capacity value  
 0.001μF (100000) .102 0.1μF .104  
 0.001μF (100000) .102 0.5μF .504  
 0.01μF .103 1μF .105  
 0.01μF .103

REF. DESIG.	PART NO.	DESCRIPTION
		<b>FEET-TONE AMP CIRCUIT BOARD</b>
		<b>P01-CAPACITORS</b>
C001	4822 121 43136	Film 0.008μF 25%
C002	4822 121 43136	Film 0.008μF 25%
C003	4822 121 42795	Film 0.012μF 25%
C004	4822 121 42795	Film 0.012μF 25%
C007	4822 121 43133	Film 0.0039μF 25%
C008	4822 121 43133	Film 0.0039μF 25%
C009	4822 124 90352	Elect 10μF 16V
C010	4822 124 90352	Elect 10μF 16V
		<b>P01-RESISTORS</b>
RE13	4822 100 20688	50K(Ω), Variable
RE14	4822 100 20688	50K(Ω), Variable
		<b>P01-MISCELLANEOUS</b>
WE01	4822 323 10078	Jumper Lead, 3P
WE02	4822 323 10081	Jumper Lead, 3P
		<b>P01-MASTER VOLUME CIRCUIT BOARD</b>
RG01	4822 100 20685	Variable Resistor 50K(Ω)
J001	4822 265 10063	Jack, 6P
J002	4822 265 30482	Plug, 4P
		<b>P01-TAPE MONITOR CIRCUIT BOARD</b>
CJ01	4822 122 33488	Ceramic Cap. 0.01μF ±80% -20%
CJ02	4822 122 33488	Ceramic Cap. 0.01μF ±80% -20%
JJ01	4822 265 30512	Terminal, 4P
JJ02	4822 265 30512	Terminal, 4P
		<b>P01-FRONT SWITCH CIRCUIT BOARD</b>
C503	4822 121 42227	Film 4700μF 25%
C504	4822 121 42227	Film 4700μF 25%
		<b>P01-SEMICONDUCTORS</b>
D501	4822 130 33305	Diode 1SS133, etc.
D502	4822 130 33305	Diode 1SS133, etc.
		<b>P01-MISCELLANEOUS</b>
J501	4822 265 10064	Jack, 7P
J502	4822 265 10064	Jack, 7P
J503	4822 265 10105	Jack, 4P
J504	4822 265 10105	Jack, 4P
J505	4822 265 10061	Jack, 5P
S501	4822 276 12424	Push Switch

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
W504	4822 323 10083	Jumper Lead, 3P	J403	4822 266 30282	Terminal, 2P
W507	4822 323 10159	Jumper Lead, 6P	JV01	4822 267 20348	Terminal, 4P
W508	4822 323 10159	Jumper Lead, 6P	JV02	4822 266 30284	Terminal, 4P
			JV03	4822 266 10064	Jack, 7P
			JV04	4822 266 30482	Plug, 4P
			JV06	4822 266 10106	Jack, 4P
			JV06	4822 266 40296	Terminal, Earth
			JV06	4822 266 10062	Jack, 3P
			L401	4822 156 11019	Choke Coil 320uH (N)
			L402	4822 156 11019	Choke Coil 320uH (N)
			LV01	4822 280 20186	Relay
			SV01	4822 277 21247	Slide Switch
			WV01	4822 323 10106	Jumper Lead, 3P
			WV02	4822 323 10074	Jumper Lead, 3P
					<b>PW01 HEADPHONE/SPEAKER SW. CIRCUIT BOARD</b>
			RW01	4822 116 60485	Meat Resistor 2700 25% 2W
			RW02	4822 116 60485	Meat Resistor 2700 25% 2W
			JW01	4822 267 30617	Jack, Headphone
			SW01	4822 276 12423	Push Switch, Speaker
					<b>PV01 INPUT SELECTOR IND. CIRCUIT BOARD</b>
			DY01	4822 130 80326	L.E.D. LT3088
			DY05	4822 130 80327	L.E.D. LT3088
			DY06	4822 130 80327	L.E.D. LT3088
			JVY01	4822 323 10122	Jumper Lead, 7P
			WY02	4822 323 10084	Jumper Lead, 6P
					<b>PV01 FUNCTION LED IND. CIRCUIT BOARD</b>
			DY51	4822 130 80326	L.E.D. LT3088
			DY57	4822 130 80326	L.E.D. LT3088
			WY51	4822 323 10111	Jumper Lead, 4P
			WY52	4822 323 10111	Jumper Lead, 4P
					<b>PV01-RESISTORS</b>
					<b>PV01-SEMICONDUCTORS</b>
					<b>DV01</b>

REF. DESG.	PART NO.	DESCRIPTION	REF. DESG.	PART NO.	DESCRIPTION
		<b>PRI-MAIN AMP CIRCUIT BOARD</b>			
		<b>PRI-CAPACITORS</b>			
CN01	4822 124 22274	Elect 4.7uF 50V	R753	4822 111 91405	220Ω 5% 1/8W
CN02	4822 124 22273	Elect 0.1uF 50V	R754	4822 111 91406	220Ω 5% 1/8W
CN04	4822 124 22275	Elect 47uF 10V	R755	4822 111 90726	10Ω 5% 2W
CN05	4822 124 22276	Elect 47uF 10V	R756	4822 111 90726	10Ω 5% 2W
CT01	4822 124 90386	Elect 15uF 25V (W)			<b>PRI-SEMICONDUCTORS</b>
CT02	4822 124 22971	Elect 10uF 50V (N, E, A)	DN01	4822 130 80637	Diode H581
CT03	4822 124 90386	Elect 15uF 25V (W)	DN02	4822 130 80637	Diode H581
CT03	4822 124 22971	Elect 10uF 50V (N, E, A)	DN03	4822 130 32508	Diode DSF10C, etc.
CT04	4822 121 81038	Film 100uF 5% (W)	DN04	4822 130 33205	Diode 1S8133, etc.
CT04	4822 121 81038	Film 100uF 5% (N, E, A)	A.D781	4822 130 33864	Diode 3000FC
CT04	4822 121 81038	Film 100uF 5% (W)	A.D782	4822 130 33864	Diode 3000FC
CT06	4822 124 90354	Elect 100uF 16V	A.D783	4822 130 33864	Diode 3000FC
CT06	4822 124 90354	Elect 100uF 16V	A.D784	4822 130 33864	Diode 3000FC
CT07	4822 121 42756	Film 1500pF 5% (W)	Q101	4822 130 43233	Transistor 2SC2400GR, BL
CT08	4822 121 42756	Film 1500pF 5% (W)	Q102	4822 130 43233	Transistor 2SC2400GR, BL
CT11	4822 121 43129	Film 15pF 50V	Q103	4822 130 43233	Transistor 2SC2400GR, BL
CT12	4822 121 43129	Film 15pF 50V	Q104	4822 130 43233	Transistor 2SC2400GR, BL
CT13	4822 124 90354	Elect 100uF 16V	Q105	4822 130 42961	Transistor 2SA1306IO, Y
CT14	4822 124 90354	Elect 100uF 16V	Q106	4822 130 42961	Transistor 2SA1306IO, Y
CT15	4822 121 43127	Film 5pF 50V	Q107	4822 130 60526	Transistor 2SC2380, Y
CT16	4822 121 43127	Film 5pF 50V	Q108	4822 130 60526	Transistor 2SC2380, Y
CT17	4822 121 43126	Film 120pF 5% (W)	Q109	4822 130 60524	Transistor 2SA1306IO, Y
CT18	4822 121 43126	Film 120pF 5% (W)	Q110	4822 130 60524	Transistor 2SA1306IO, Y
CT19	4822 121 43126	Film 120pF 5% (W)	A.Q111	4822 130 60116	Transistor 2SC2380R, O
CT20	4822 121 43126	Film 120pF 5% (W)	A.Q112	4822 130 60116	Transistor 2SC2380R, O
CT25	4822 122 32486	Ceramic 0.01uF +80% -20% (N)	A.Q113	4822 130 60109	Transistor 2SA1301P, O
CT26	4822 122 32486	Ceramic 0.01uF +80% -20% (N)	A.Q114	4822 130 60109	Transistor 2SA1301P, O
CT27	4822 122 32486	Ceramic 0.01uF +80% -20% (N)	Q119	4822 209 75085	IC STK3062
CT28	4822 122 32486	Ceramic 0.01uF +80% -20% (N)			<b>PRI-MISCELLANEOUS</b>
CT29	4822 124 22572	Elect 100uF 50V	J701	4822 285 30291	Terminal, Speaker
CT30	4822 124 22572	Elect 100uF 50V	J702	4822 285 30279	Terminal, Speaker
CT31	4822 124 90362	Elect 22uF 50V	J714	4822 285 30462	Plug, 4P
CT32	4822 124 90362	Elect 22uF 50V	J715	4822 285 10062	Jack, 3P
CT33	4822 124 41533	Elect 8200uF 60V	J716	4822 285 10062	Jack, 3P
CT34	4822 122 30043	Ceramic 0.01uF +80% -20%	L701	4822 280 30197	Relay
		<b>PRI-RESISTORS</b>	L701	4822 157 91739	Coil
RN01	4822 111 91257	1KΩ 5% 1/8W	L702	4822 157 91739	Coil
RN02	4822 111 91257	1KΩ 5% 1/8W			<b>PRI-POWER SUPPLY CIRCUIT BOARD</b>
A.RN11	4822 113 90119	22Ω 5% 1/4W, Fuse			<b>PRI-CAPACITORS</b>
RN17	4822 116 90351	1KΩ 5% 1W	CB01	4822 124 41441	Elect 47uF 25V
R713	4822 116 90647	33KΩ 5% 1/4W	CB02	4822 124 41438	Elect 22uF 25V
R714	4822 116 90647	33KΩ 5% 1/4W	CB03	4822 124 41441	Elect 47uF 25V
R719	4822 100 20661	2.2KΩ Trimming	CB04	4822 124 41438	Elect 22uF 25V
R720	4822 100 20661	2.2KΩ Trimming	CB05	4822 124 41436	Elect 10uF 25V
R721	4822 111 91285	100Ω 5% 1/8W	CB07	4822 124 41537	Elect 220uF 6.3V
R724	4822 111 91285	100Ω 5% 1/8W	CB09	4822 122 32486	Ceramic 0.01uF +80% -20%
R725	4822 111 91285	100Ω 5% 1/8W	CB10	4822 122 32486	Ceramic 0.01uF +80% -20%
R726	4822 111 91285	100Ω 5% 1/8W	CB11	4822 124 41535	Elect 100uF 25V
R727	4822 111 91257	1KΩ 5% 1/8W	CB12	4822 124 41535	Elect 100uF 25V
R728	4822 111 91257	1KΩ 5% 1/8W	CB13	4822 124 41534	Elect 10uF 25V
R733	4822 116 60342	180Ω 5% 1W	CB14	4822 124 41534	Elect 10uF 25V
R734	4822 116 60342	180Ω 5% 1W			
R735	4822 111 91424	2.2Ω 5% 1/8W			
R736	4822 111 91424	2.2Ω 5% 1/8W			
R743	4822 116 80153	0.18Ω 50W			
R744	4822 116 80153	0.18Ω 50W			
R745	4822 116 80153	0.18Ω 50W			
R746	4822 116 80153	0.18Ω 50W			
R751	4822 116 52532	1Ω 5% 1/4W			
R752	4822 116 52532	1Ω 5% 1/4W			

REF. DESIG.	PART NO.	DESCRIPTION
<b>PS01-RESISTORS</b>		
A.R801	4822 116 60301	1Ω 5% NW, Fusible
A.R802	4822 116 90196	100Ω 5% NW, Fuse
A.R803	4822 116 90119	22Ω 5% NW, Fuse
A.R804	4822 116 80668	330Ω 5% NW, Metal
A.R805	4822 116 60307	1Ω 5% NW, Fusible
A.R806	4822 116 90119	22Ω 5% NW, Fuse
A.R807	4822 111 91423	1.2KΩ 5% NW
A.R809	4822 111 91423	1.2KΩ 5% NW
A.R810	4822 116 60332	22Ω 5% NW, Fuse
<b>PS01-SEMICONDUCTORS</b>		
A.D801	4822 130 32908	Diode D5F10C, etc.
A.D808	4822 130 80017	Zener MTZJ5.1B
D809	4822 130 80038	Zener MTZJ18C
D810	4822 130 80038	Zener MTZJ18C
D811	4822 130 00038	Zener MTZJ18C
D812	4822 130 33305	Diode 1S8133, etc.
D813	4822 130 33305	Diode 1S8133, etc.
A.Q801	4822 130 60096	Transistor 2SC1620, V1
A.Q802	4822 130 60093	Transistor 2SA1700, V1
<b>PS01-MISCELLANEOUS</b>		
J805	4822 265 10062	Jack, 3P
J806	4822 290 40296	Terminal, Earth
WB01	4822 323 10281	Jumper Lead, 3P
<b>PS01-POWER SWITCH CIRCUIT BOARD</b>		
A.C801	4822 122 33276	Ceramic Cap. 0.01μF 500V 400V
A.S901	4822 276 11898	Push Switch, Power

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

**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.

**9. TECHNICAL SPECIFICATIONS (DIN)**

**Audio Section**

<b>IHF Dynamic Power</b>	
2 Ohms .....	170 W
4 Ohms .....	130 W
8 Ohms .....	90 W
<b>Power Output Per Channel</b>	
DIN 4 Ohms at 1 kHz .....	110 W
RMS 4 Ohms .....	83 W
DIN 8 Ohms at 1 kHz .....	80 W
RMS 8 Ohms .....	65 W
Total Harmonic Distortion at RMS 8 Ohms .....	0.02%
I.M. Distortion .....	0.02%
Damping Factor 8 Ohms (1 kHz) .....	100
<b>MM Cartridge Input</b>	
Frequency Response (IEC RIAA) .....	±0.5 dB
Signal to Noise Ratio (A weighted) .....	88 dB
Input Impedance .....	47 k Ohms
Input Capacitance .....	200 pF
Input Sensitivity .....	2.5 mV
<b>MC Cartridge Input</b>	
Input Sensitivity .....	250 µV
Input Impedance .....	100 Ohms
<b>CD-Tuner-Tape Input</b>	
Input Impedance .....	22 k Ohms
Input Sensitivity .....	150 mV
Frequency Response .....	18 Hz-70 kHz
Signal to Noise Ratio (A weighted) .....	96 dB
<b>Output Voltage &amp; Impedance</b>	
Tape Out [Phono (MM) 5.0 mV 1 kHz Input] .....	300 mV/220 Ohms
Channel Separation [CD Input] .....	>80 dB
<b>General</b>	
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 .....	200 W
<b>Dimensions</b>	
Panel Width .....	420 mm
Panel Height .....	138 mm
Depth .....	366 mm
<b>Weight</b>	
Unit Alone .....	9.2 kg

Specifications and appearance are subject to change for modification without notice.





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