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Service Manual

74 SM80/02B/02G

Stereo Power Amplifier

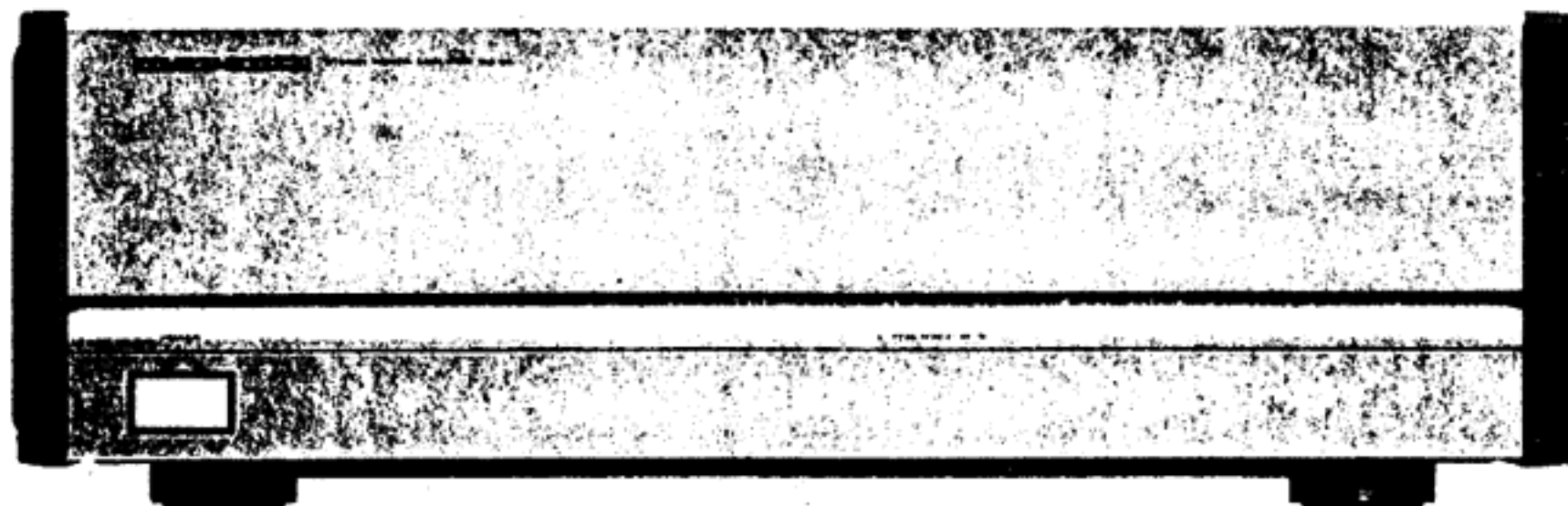


TABLE OF CONTENTS

SECTION	PAGE
1. BLOCK DIAGRAM	1
2. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)	2
3. EXPLODED VIEW AND PARTS LIST	10
4. TEST EQUIPMENT REQUIRED FOR SERVICING	12
5. IDLING CURRENT ADJUSTMENT	12
6. ELECTRICAL PARTS LIST	13

marantz®

model SM-80

First issue: 1990

4822 725 50921

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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
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The Netherlands
Phone: +31/40.758290
Telefax: +31/40.75.82.99
Telex: 35000 PHTC NL routing IND NLMTFAT

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA
HORNYPHON
Vertriebsgesellschaft GmbH
Wienerbergstrasse 1
A 1101 Wien
Austria
Telex: 132.332

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Telex: 124811

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Harmondsworth UB7 OLW
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Telex: 935196

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P.O.Box 5954
University Street
Riyadh 11432
Saudi Arabia
Telex: 401530

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MARANTZ
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Duenstrasse 3
3186 Düringen
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SVD DIVISION MARANTZ
Industrialaan 1
1720 Groot-Bijgaarden
Belgium
Telex: 24466

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4 Rue Bernard Palissy
92600 Asnières
France
Telex: 611651

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P.O.Box 21025
Hippocrates Street 188
Athens 11471
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Telex: 216.795

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MARANTZ
DIVISION OF PHILIPS S.A.
Main Road Martindale
P.O. Box. 58088
Newville 21114
South Africa

TURKEY
DOGRUOL Ltd.
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6 Blok N°6310
Unkapani
Istanbul
Turkey
Telex: 22085

CHILE
MARANTZ
DIVISION OF PHILIPS S.A.
AV. Santa Maria, 0760
Casilla 2687
Santiago
Telex: 240.239

GERMANY
MARANTZ GERMANY GmbH
Alexanderstrasse 1
2000 Hamburg
Germany

JAPAN
MARANTZ JAPAN, Inc.
35-1, 7-chome, Sagamiono
Sagamihara-shi, Kanagawa
Japan

SPAIN
PHONO S.A.
Ignacio Iglesias 10
Badalona (Barcelona)
Spain
Telex: 59355

MALTA
CACHIA & GALEA
Republic Street, 68D
Valetta
Telex: 1682

DENMARK
MARANTZ
DIVISION OF PHILIPS
SERVICE A/S
Prags Boulevard 80
Postbox 1919
DK-2300 København S
Denmark
Telex: 31201

THE NETHERLANDS
Elpro Marantz
Wint Hontlaan 28
3526 KV Utrecht
The Netherlands
Telex: 4748

KUWAIT
AL ALAMIAH ELECTRONICS
Ussama Building
Fahd al Saleem Street
P.O.Box 23781
Safat-Kuwait
Telex: 22694

SWEDEN
MARANTZ
DIVISION OF PHILIPS
Försäljning AB
Tegeluddsvägen 1
S-115 84 Stockholm
Sweden
Telex: 14060

PORTUGAL
MARANTZ
Divisao philips S.A. service
Outurela-carnaxide
2795 LinDA-A-VELHA
Telex: 43906

NORWAY
MARANTZ
DIVISION OF PHILIPS A/S
Sandstuveien 40
0680 Oslo 6
Norway
Telex: 72640

ITALY
MARANTZ ITALIANA S.P.A.
Via Chiese, 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.

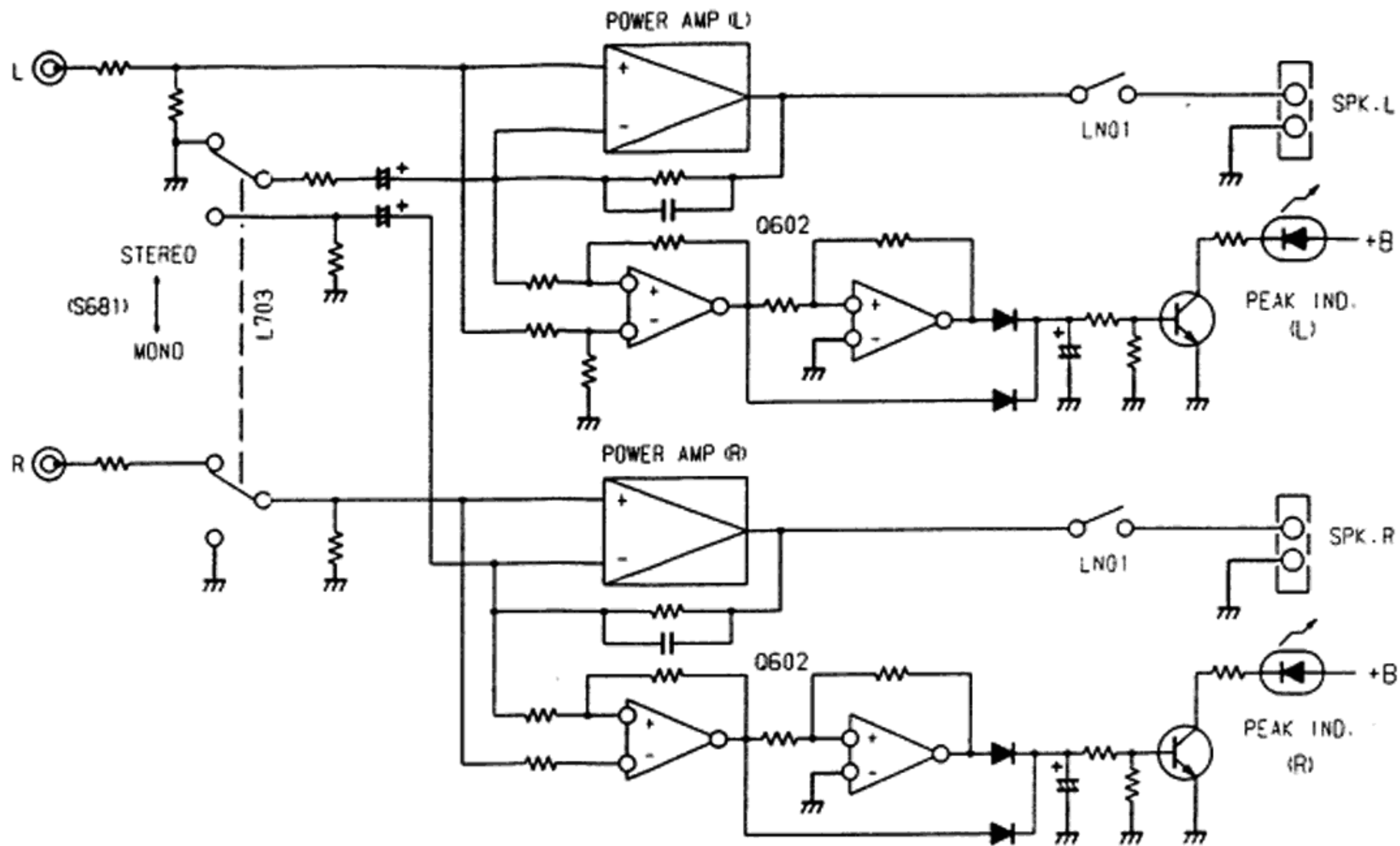
In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

TECHNICAL SPECIFICATIONS (DIN)

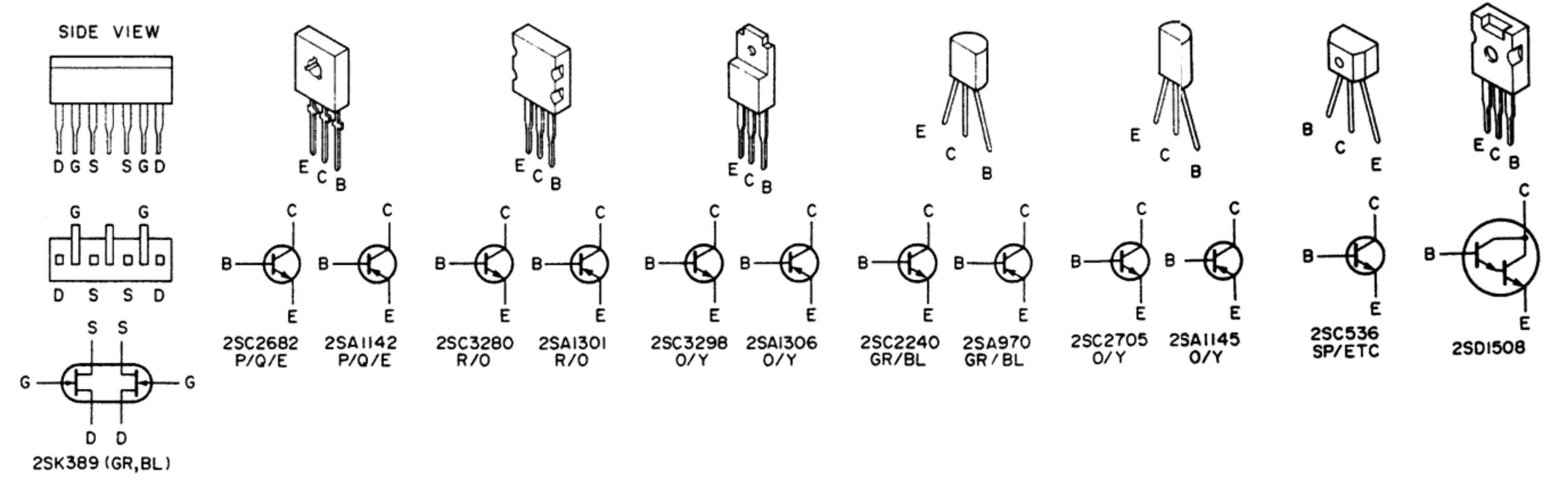
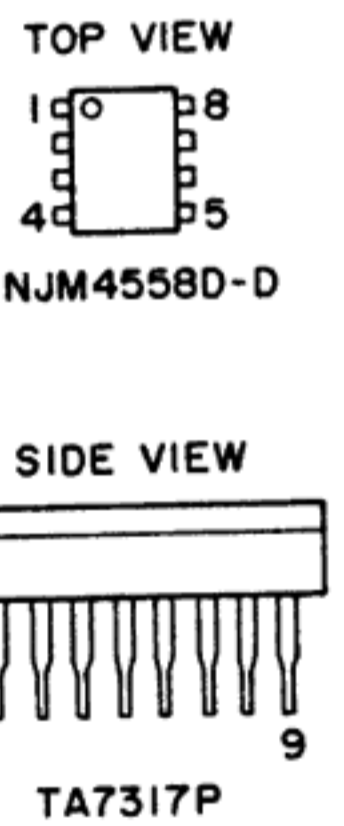
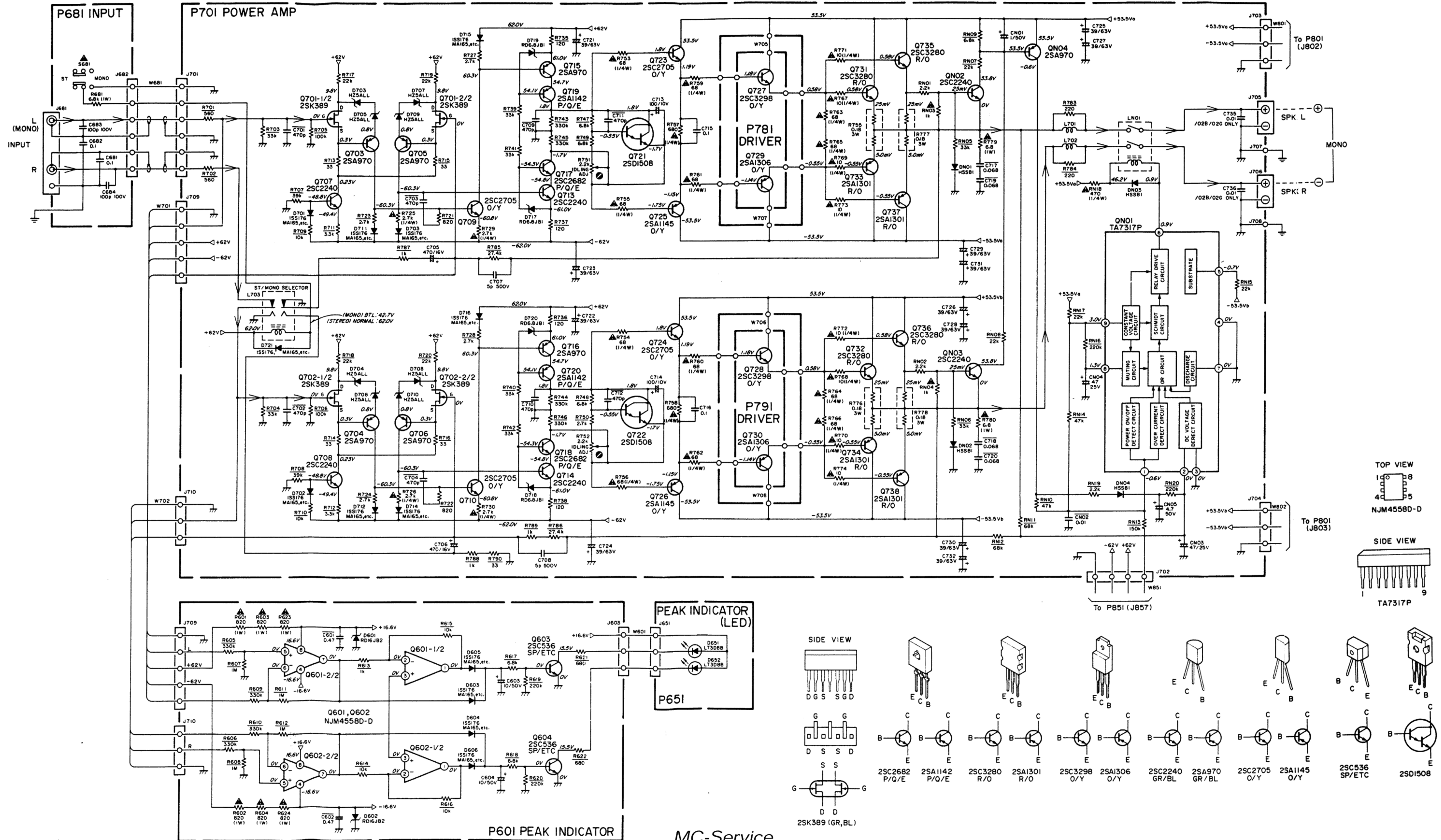
Rated Power Output (20 Hz–20 kHz)	
8 ohms RMS	100 W × 2
4 ohms RMS	150 W × 2
8 ohms (Mono)	300 W × 1
Dynamic Power (stereo)	
8 ohms	130 W × 2
4 ohms	210 W × 2
2 ohms	300 W × 2
THD at Rated Power	
Stereo 8 ohms	0.02%
4 ohms	0.03%
Mono 8 ohms	0.03%
IMD at Rated Power (8 ohms)	0.02%
Damping Factor (1 kHz)	200
Frequency Response (20 Hz–20 kHz)	±0.2 dB
Power Bandwidth at 0.1% THD	10 Hz–40 kHz
Input Sensitivity	1 V
Input Impedance	20k ohms
Channel Crosstalk (10 Hz–10 kHz)	78 dB
S/N Ratio (A-weighted)	121 dB
Power Consumption at max Power	600 W
Dimensions	
Panel Width	420 mm
Panel Height	132 mm
Depth	334 mm
Weight	
Unit alone	13 kg

Specifications subject to change without prior notice.

1. BLOCK DIAGRAM

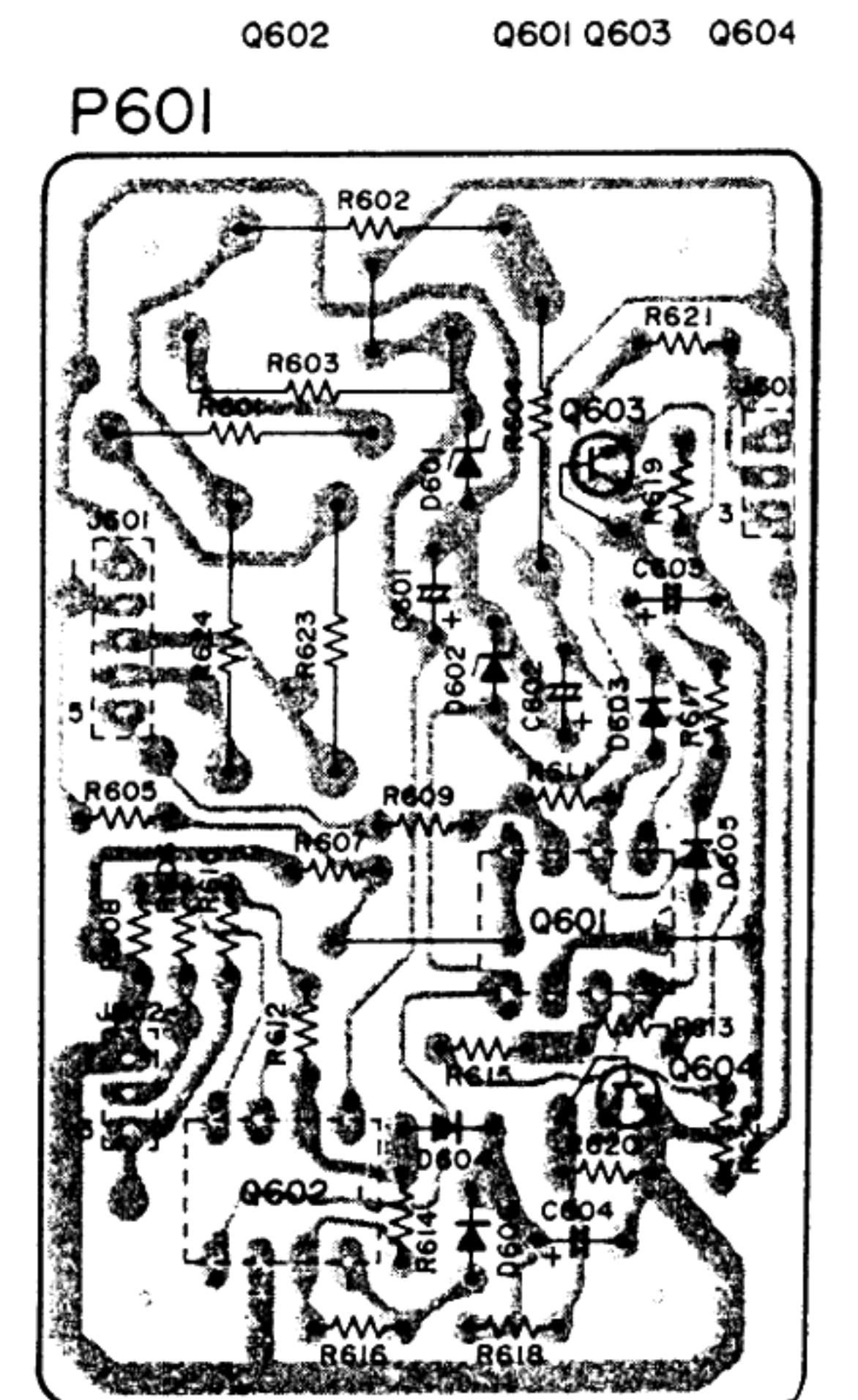
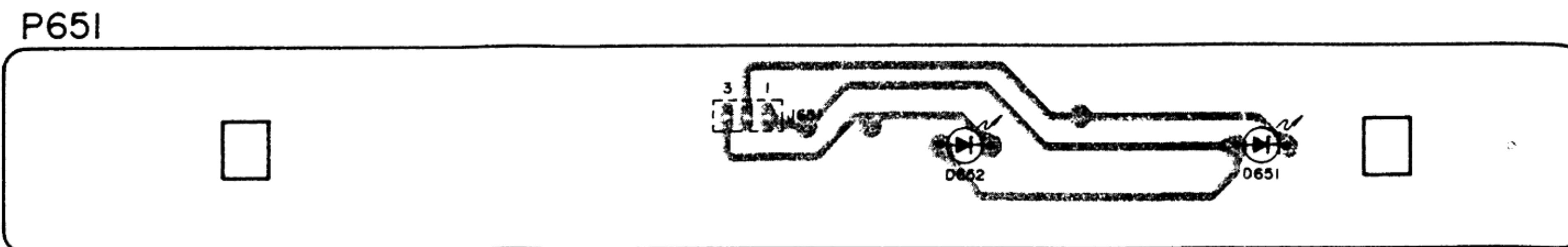
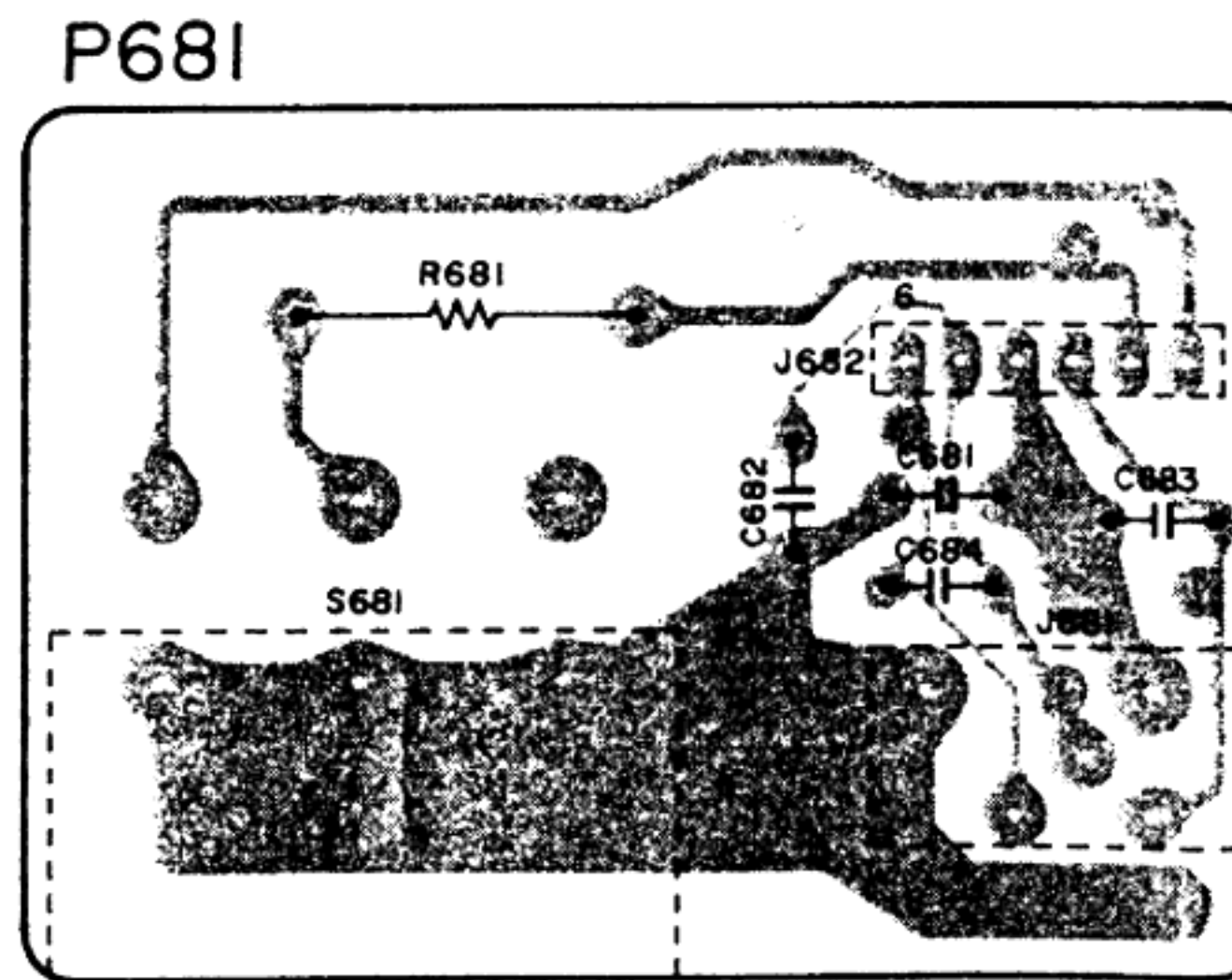
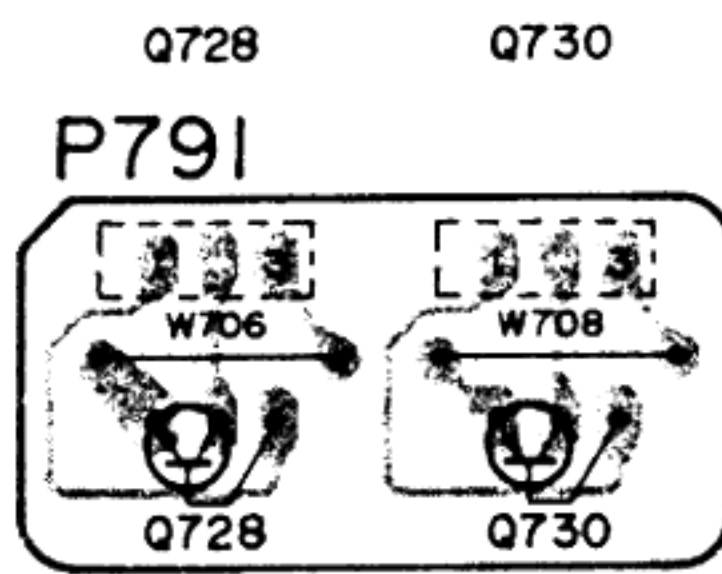
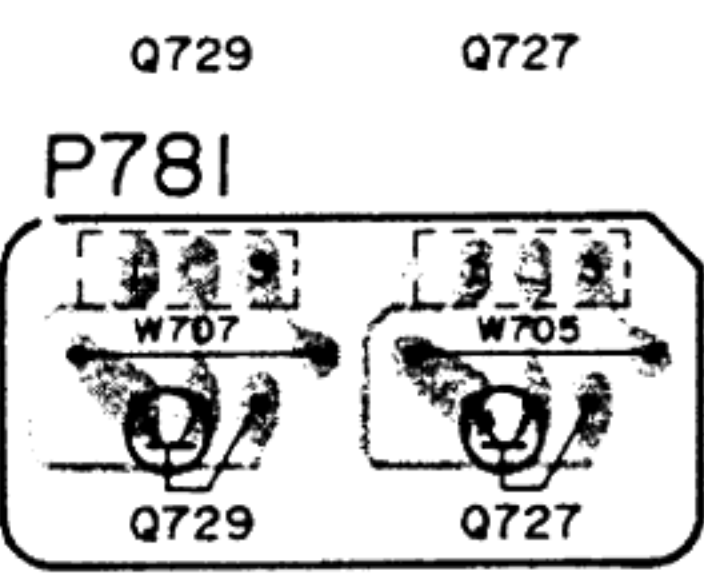
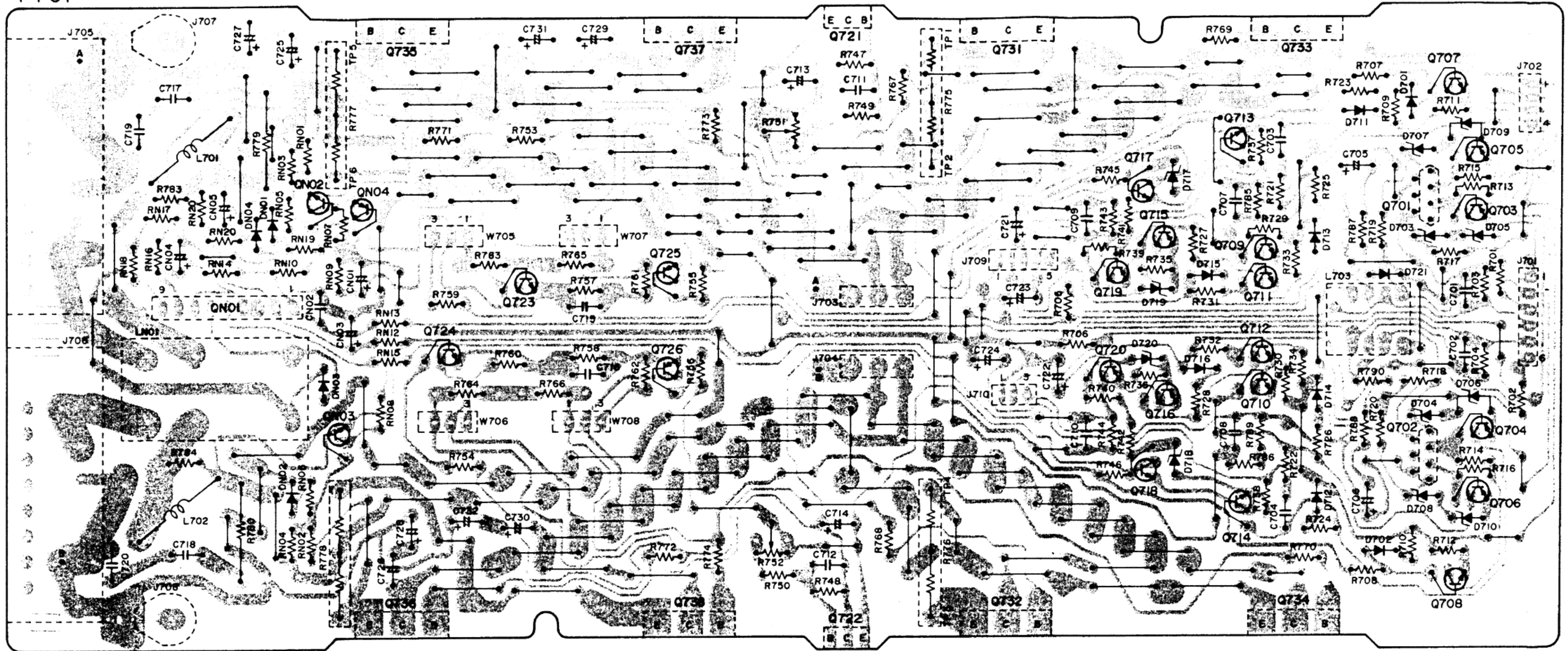


2. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)

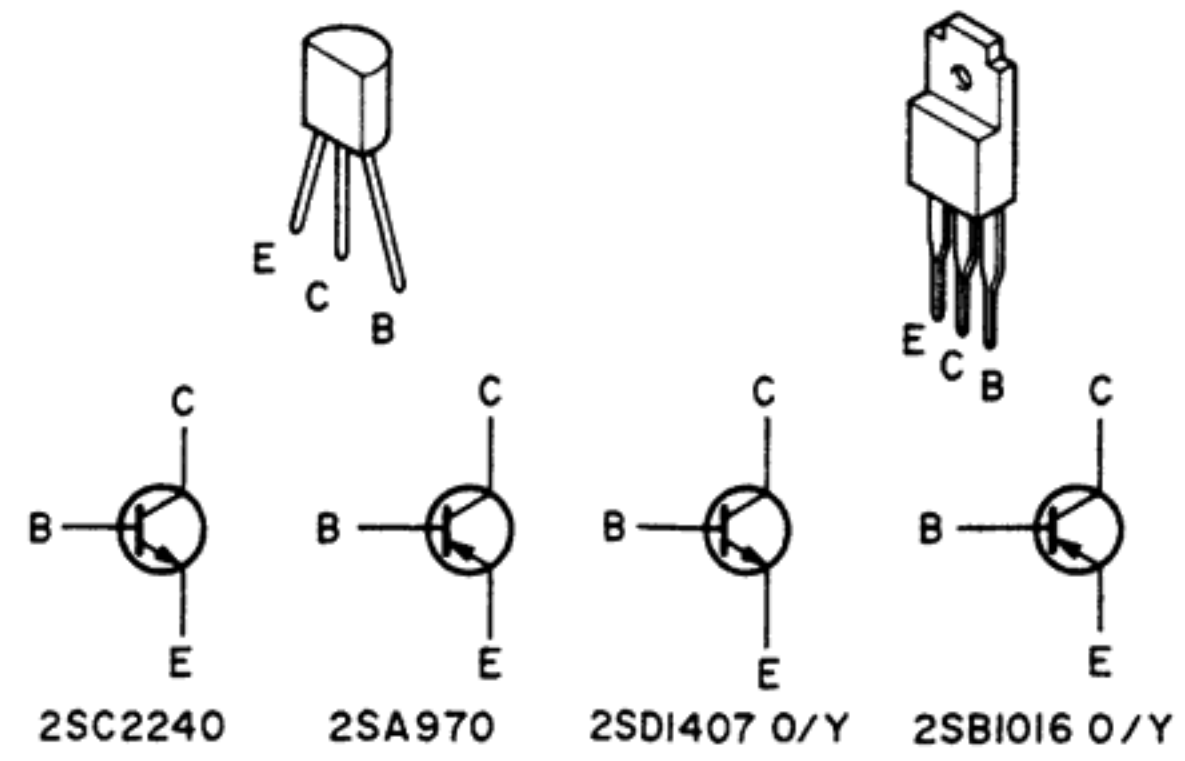
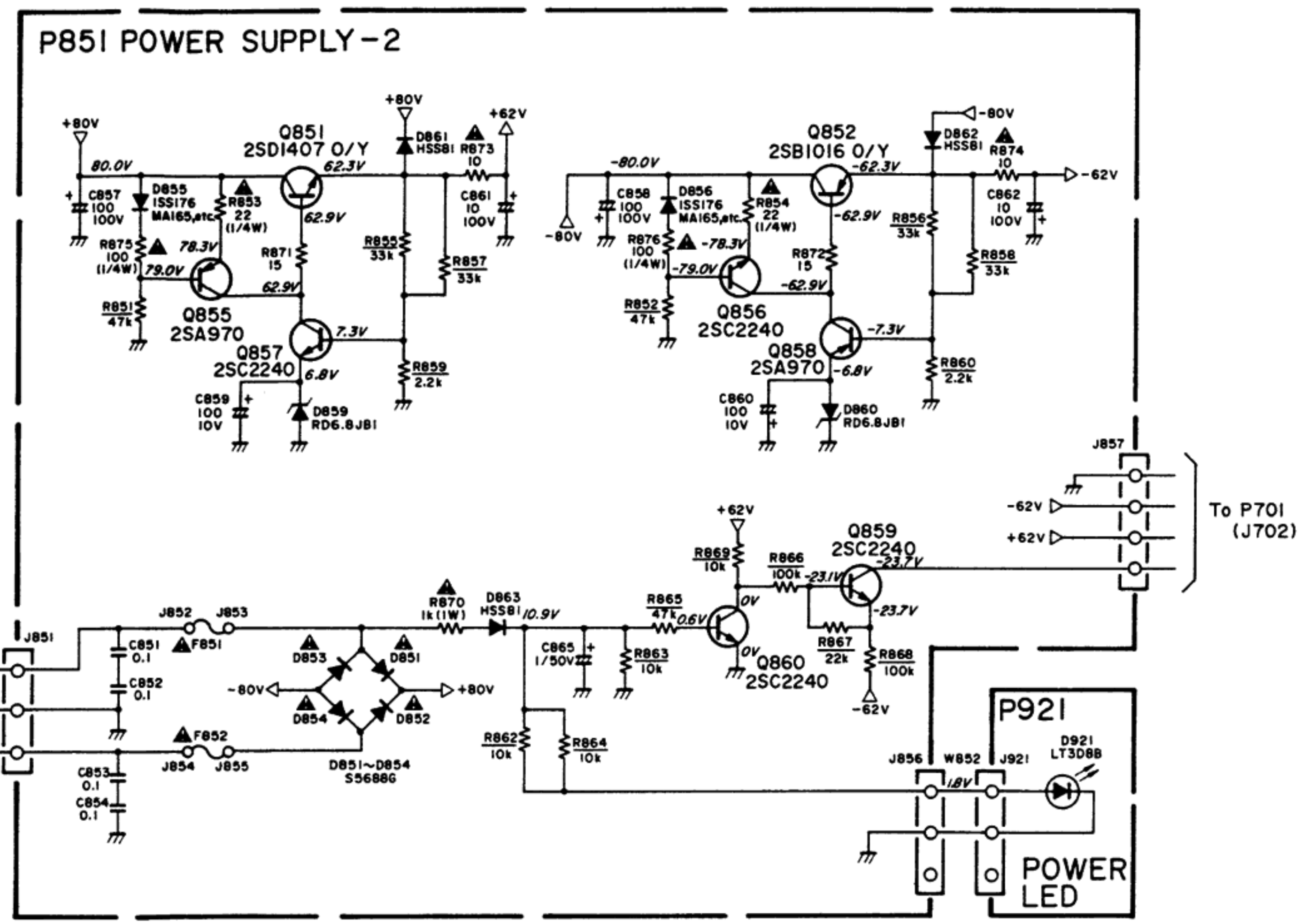
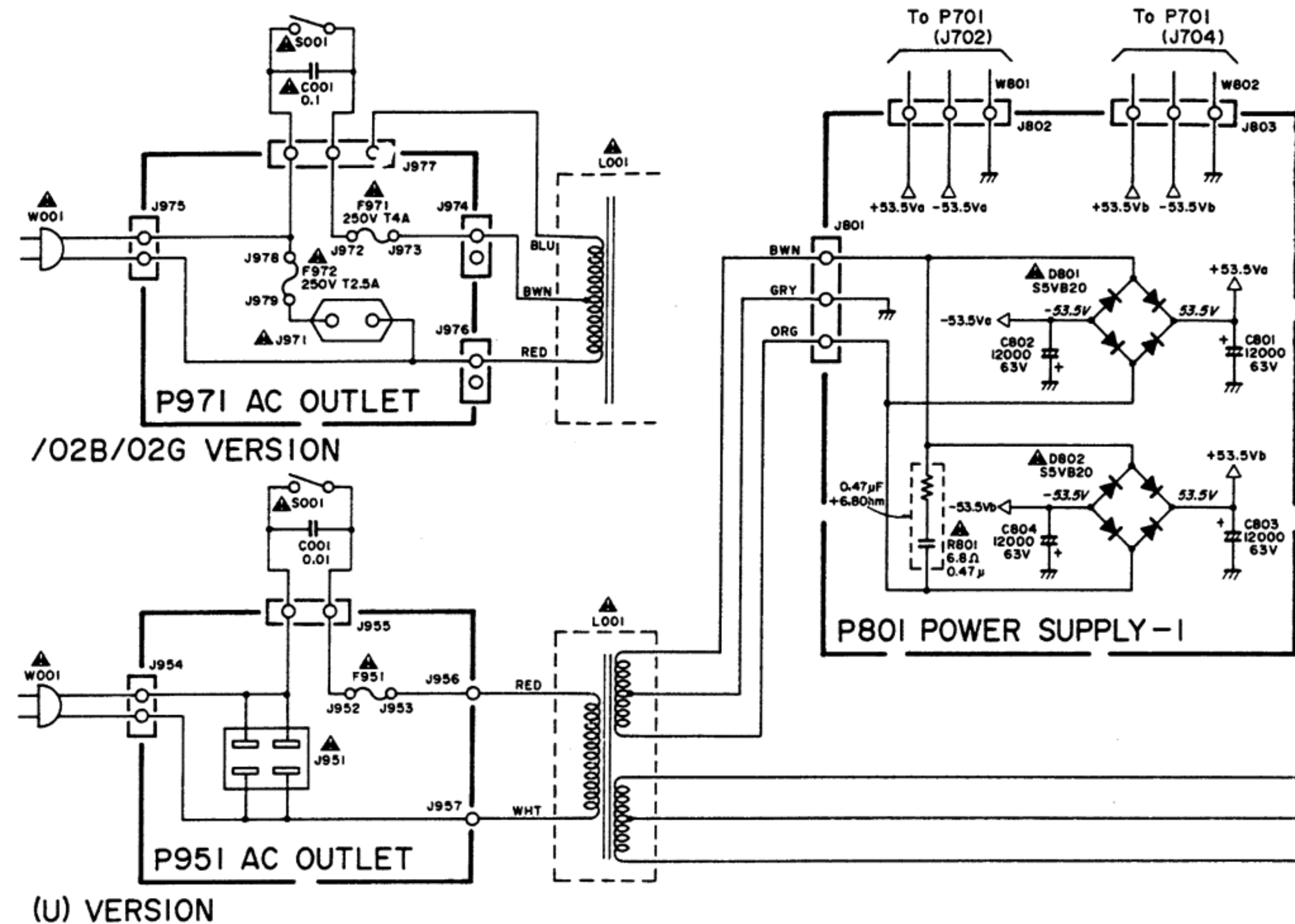


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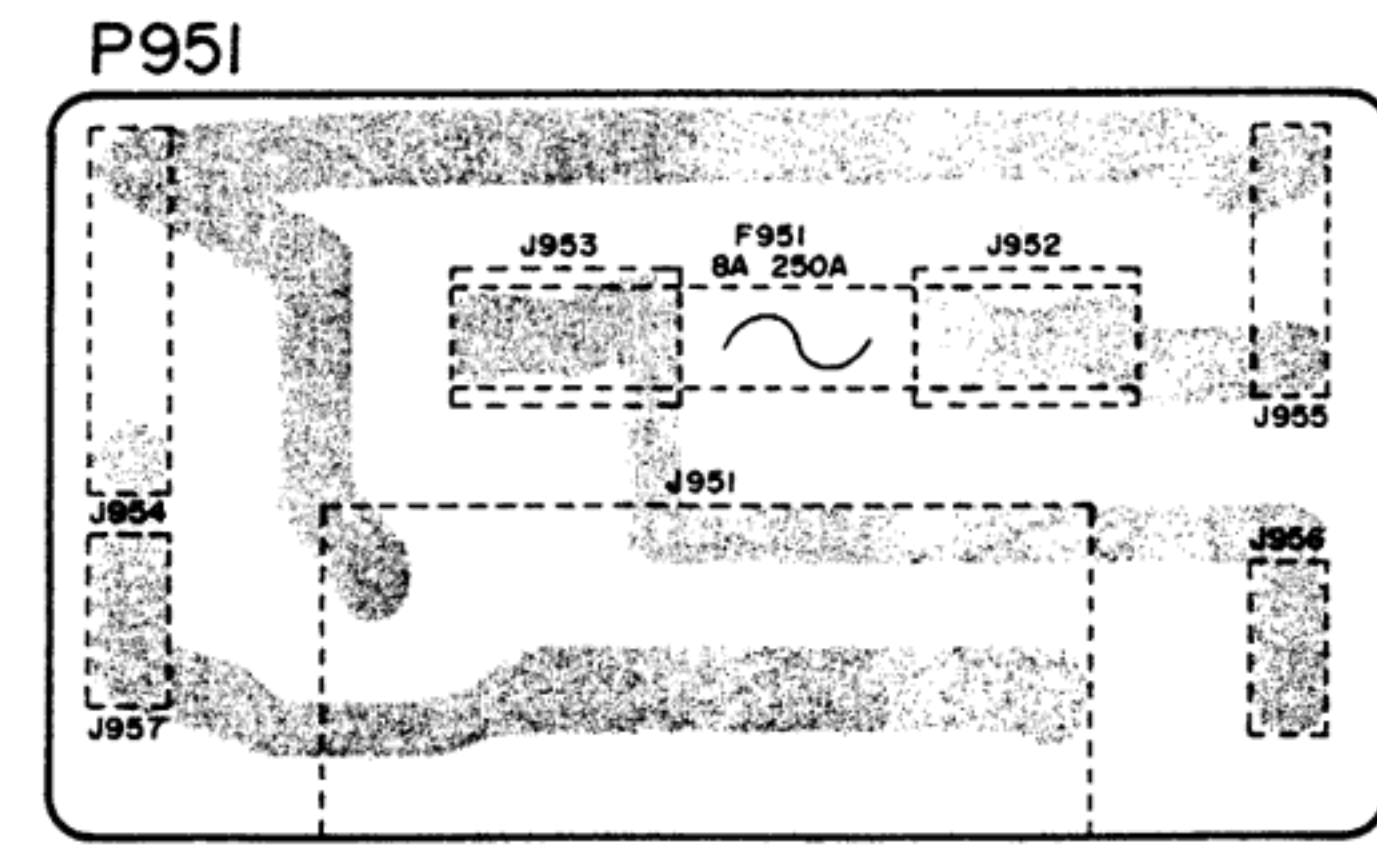
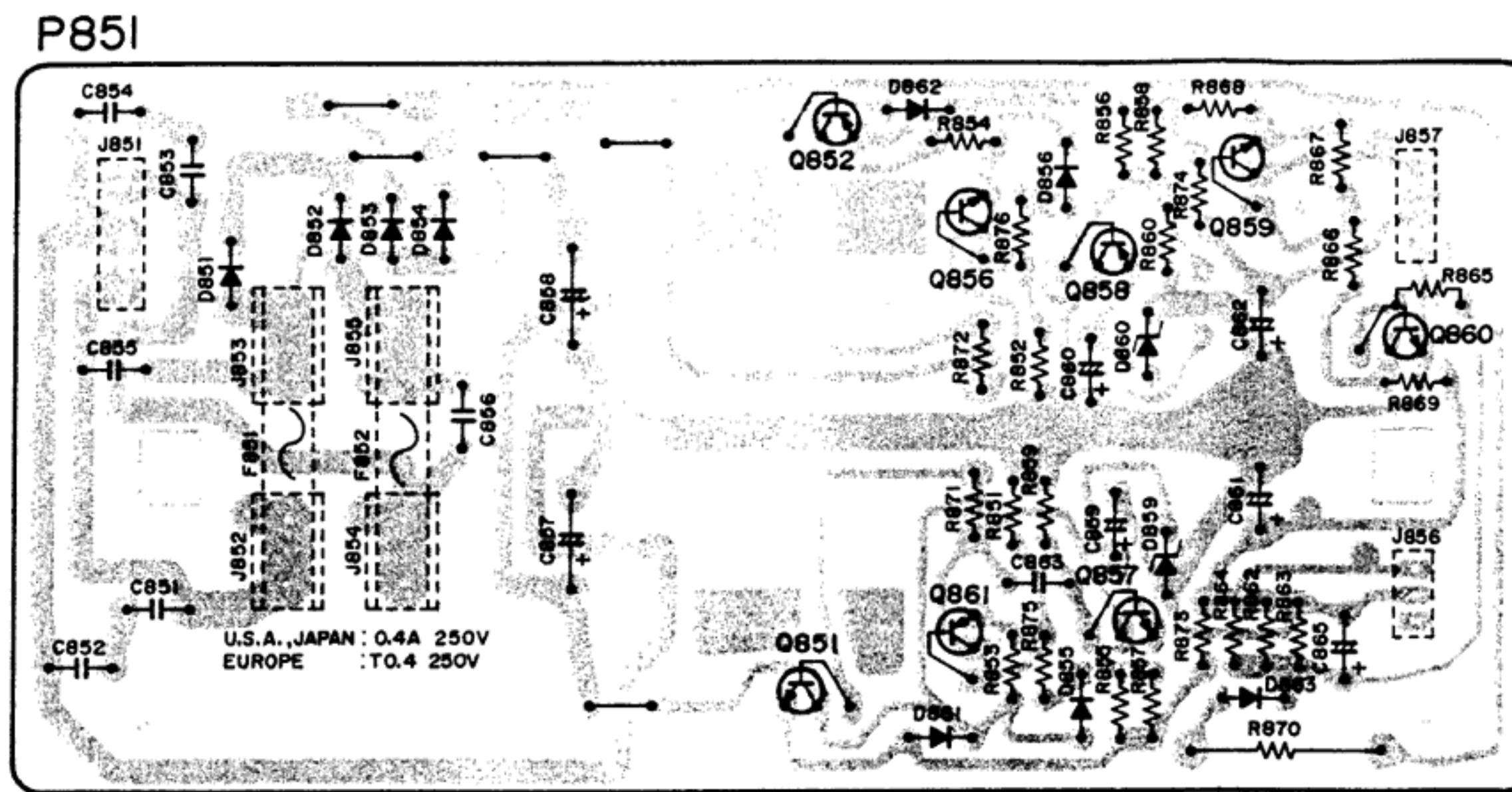
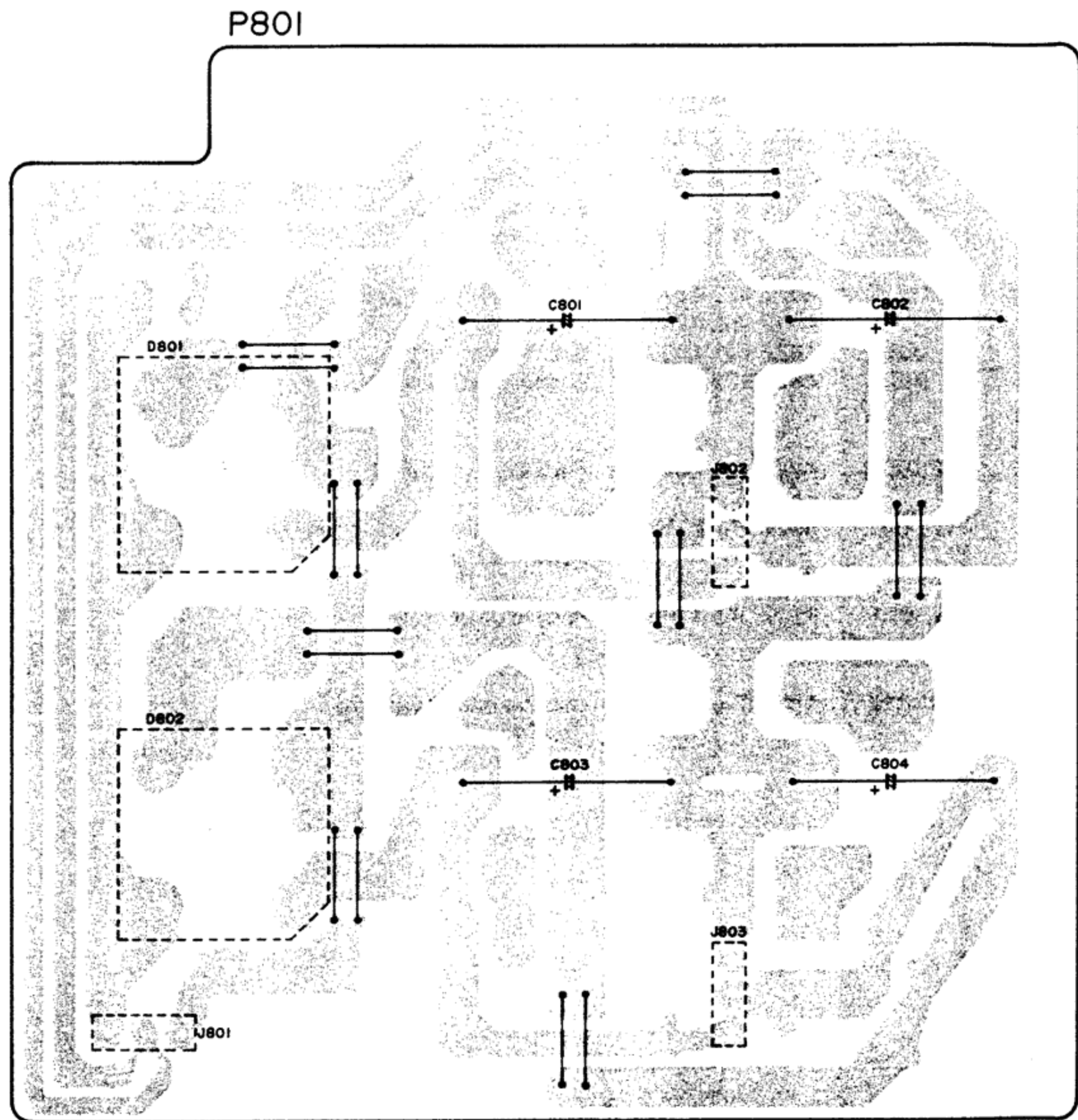
P701



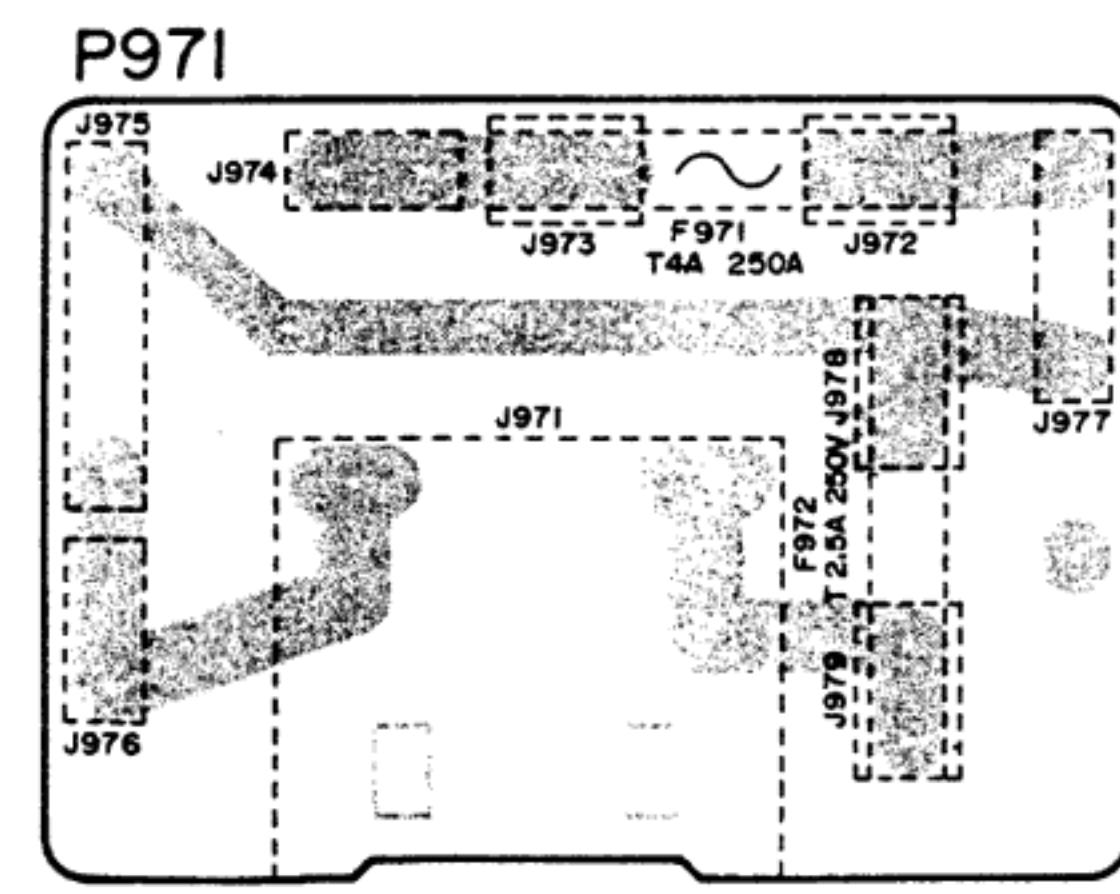
MC-Service



MC-Service



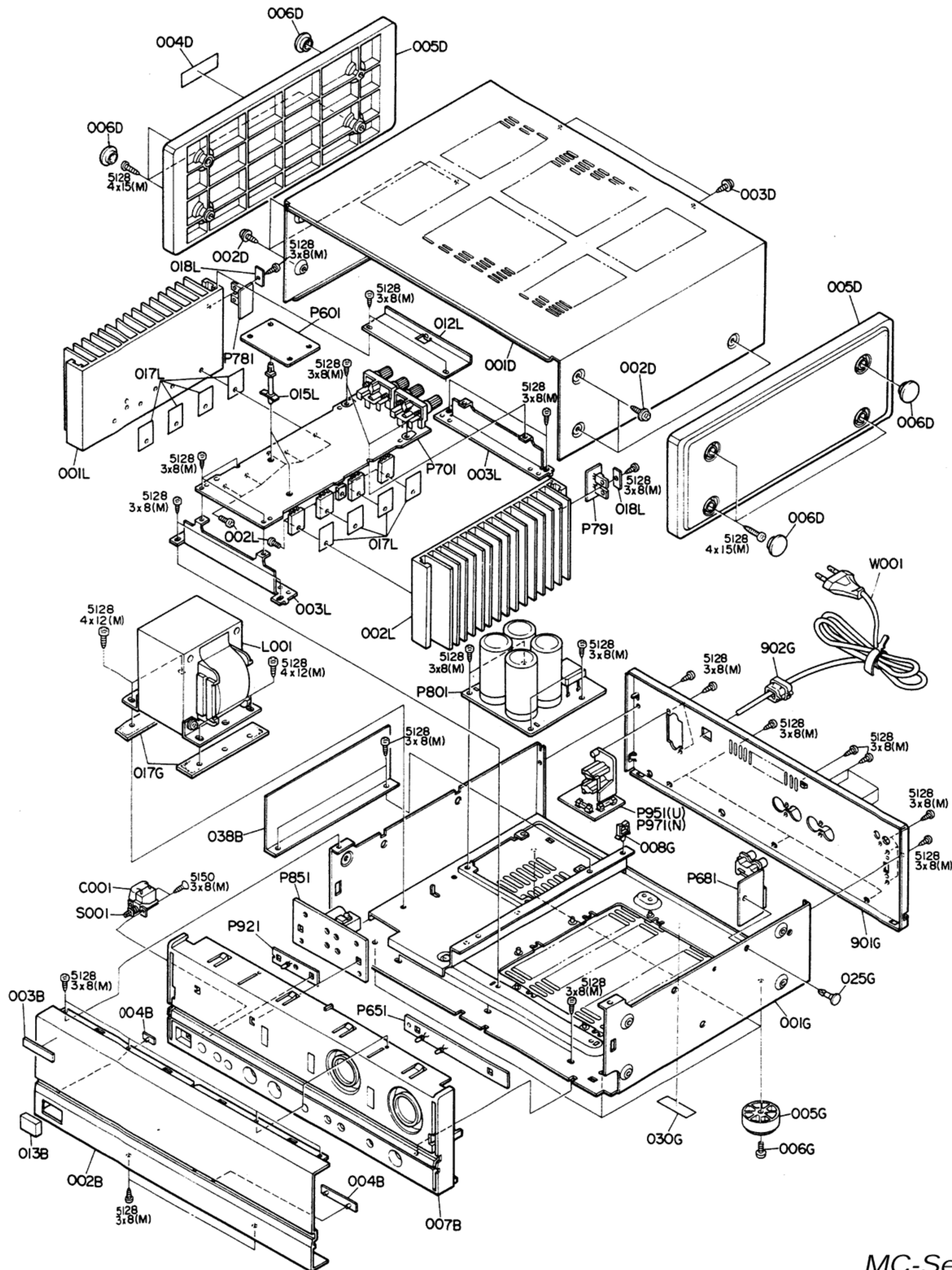
(U) VERSION



(N) VERSION

MC-Service

3. EXPLODED VIEW AND PARTS LIST



MC-Service

REF. DESIG.	PART NO.	DESCRIPTION
002B	4822 447 50127	Front Panel (BLK) /02B
	4822 447 50132	Front Panel (GLD) /02G
	4822	Front Panel (BLK) [U]
003B	4822 454 11825	Badge, MARANTZ (BLK) /02B
	4822 459 10855	Badge, MARANTZ (GLD) /02G
	4822 454 40107	Badge, PHILIPS [U]
004B	4822 381 11208	Lens
007B	4822 464 90695	Chassis, Front (BLK) [U], /02B
	4822 447 50126	Chassis, Front (GLD) /02G
013B	4822 410 60194	Button, Power (BLK) [U], /02B
	4822 410 60358	Button, Power (GLD) /02G
002D	4822 501 11008	B.T. Screw (W/W) B4 x 8 [U]
003D	4822 502 12511	B.T. Screw (W/W) B3 x 8
005D		Side Panel /02G
006D	4822 444 60607	Cap, Side /02G
005G	4822 462 41477	Leg, Gold /02B/02G
	4822 462 41402	Leg, Silver [U]
006G	4822 501 11008	B.T. Screw (W/W) B4 x 8
902G	4822 532 60948	Bushing, AC Cord
▲ C001	4822 121 43732	Film Cap. 0.01μF 250V
▲ L001	4822 146 21586	Power Transformer /02B/02G Power Transformer [U]
▲ S001	4822 276 12647	Push Switch, Power
001T	4822 736 20991	User Manual /02B/02G User Manual [U]

4. 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 aignment
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

5. IDLING CURRENT ADJUSTMENT

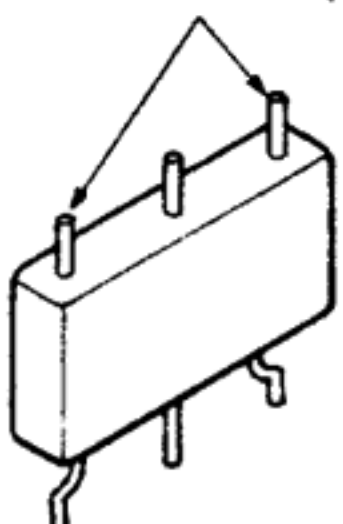
- (1) Before switching the power ON, rotate the semi-fixed resistors R751 (Lch), R752 (Rch) on the PC board P701 to the center positions.
- (2) Connect a digital voltmeter, set for the DC voltage input, to the pertinent test points (the marked ones of R775/R777: Lch, R776/778: Rch) on the PC board P701.
- (3) After the completion of the above setup, switch the power ON and adjust the semi-fixed resistors R751 (Lch) and R752 (Rch) on the PC board P701 according to the reading of the digital voltmeter. The setting values are 12 mV (33 mA) of the both channels.

Please refer to the table and figure below.

Power ON

Elapsed time after power ON	Idling current setting value
30 sec. ~ 1 min.	5 mV
1 min. ~ 2 min.	6 mV
2 min. ~ 5 min.	7 mV
5 min. ~ 12 min.	10 mV
12 min. ~	13 mV

Measurement point



R751/R752

6. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR

R***: (1) GD05 --- 140, Carbon film fixed resistor, $\pm 5\%$, 1/4W

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

① — Resistance value

Examples

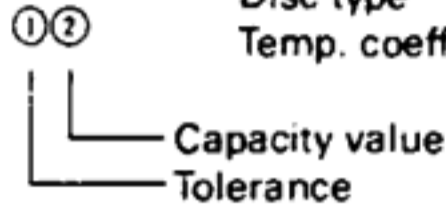
① Resistance value

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

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

C***: CERAMIC CAP.

(1) DD1 --- 370, Ceramic condenser
Disc type
Temp. coeff. P350 ~ N1000, 50V



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:

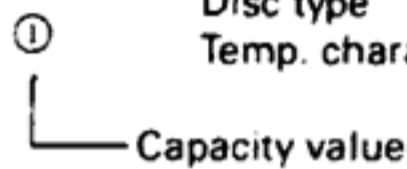
0.5pF ~ 5pF... $\pm 0.25\text{pF}$
6pF ~ 10pF... $\pm 0.5\text{pF}$
12pF ~ 560pF... $\pm 5\%$

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 --- 300, High dielectric constant ceramic condenser
Disc type
Temp. chara. 2B4, 50V



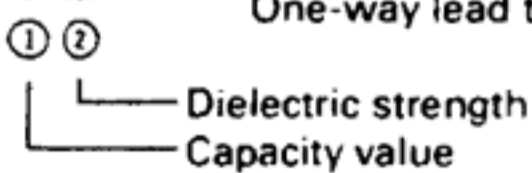
Example

② Capacity value

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

C***: ELECTROLY CAP. (---), FILM CAP. (---)

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



Examples

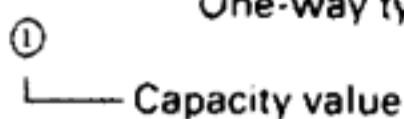
① Capacity value

0.1 μF ...104	4.7 μF ...475	100 μF ...107
0.33 μF ...334	10 μF ...106	330 μF ...337
1 μF ...105	22 μF ...226	1100 μF ...108
		2200 μF ...228

② Working voltage

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

(2) DF15 --- 350, Plastic film condenser
One-way type, Mylar $\pm 5\%$ 50V



Examples

① Capacity value

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

REF. DESIG.	PART NO.	DESCRIPTION
		P601-PEAK INDICATOR CIRCUIT BOARD
		P601-CAPACITORS
C603	4822 124 22571	Elect 10 μF 50V
C604	4822 124 22571	Elect 10 μF 50V
		P601-RESISTORS
▲ R601		820 Ω $\pm 5\%$ 1W
?	5322 116 55263	
▲ R604		820 Ω $\pm 5\%$ 1W
▲ R623	5322 116 55263	
▲ R624	5322 116 55263	820 Ω $\pm 5\%$ 1W
		P601-SEMICONDUCTORS
D601	4822 130 80498	Zener RD16JB2/MTZJ16C
D602	4822 130 80498	Zener RD16JB2/MTZJ16C
D603		
?	4822 130 33305	Diode 1SS176, etc.
D606		
Q601	4822 209 83631	IC NJM4558DD
Q602	4822 209 83631	IC NJM4558DD
Q603	4822 130 42298	Transistor 2SC536SP, etc.
Q604	4822 130 42298	Transistor 2SC536SP, etc.
		P651-PEAK INDICATOR (LED) CIRCUIT BOARD
D651	4822 130 80326	L.E.D. LT3D8B RED 30
D652	4822 130 80326	L.E.D. LT3D8B RED 30
		P681-INPUT CIRCUIT BOARD
C681	4822 122 40617	Ceramic Cap. 0.1 μF +80% -20%
C682	4822 122 40617	Ceramic Cap. 0.1 μF +80% -20%
C683	4822 121 42712	Film Cap. 100pF $\pm 5\%$
C684	4822 121 42712	Film Cap. 100pF $\pm 5\%$
R681	4822 053 10682	Resistor 6.8K Ω $\pm 5\%$ 1W
J681	4822 266 30282	Terminal, 2P RCA
S681	4822 277 21465	Slide Switch, MONO/STEREO
		P701-POWER AMP CIRCUIT BOARD
		P701-CAPACITORS
CN01	4822 124 41543	Elect 1 μF 50V
CN03	4822 124 22698	Elect 47 μF 25V
CN04	4822 124 22698	Elect 47 μF 25V
CN05	4822 124 22274	Elect 4.7 μF 50V
C701		
?	4822 121 42327	Film 470pF $\pm 5\%$
C704		
C705	4822 124 23522	Elect 470 μF 16V
C706	4822 124 23522	Elect 470 μF 16V
C707	4822 123 30093	Mica 5pF $\pm 0.5\text{pF}$
C708	4822 123 30093	Mica 5pF $\pm 0.5\text{pF}$
C709		
?	4822 121 42327	Film 470pF $\pm 5\%$
C712		

REF. DESIG.	PART NO.	DESCRIPTION		
C713	4822 124 23516	Elect	100 μ F	10V
C714	4822 124 23516	Elect	100 μ F	10V
C715	4822 122 40617	Ceramic	0.1 μ F	+80% -20%
C716	4822 122 40617	Ceramic	0.1 μ F	+80% -20%
C721	4822 124 23508	Elect	39 μ F	63V
C732				
P701-RESISTORS				
RN01	4822 050 22202	2.2K Ω	\pm 5%	1/6W
RN02	4822 050 22202	2.2K Ω	\pm 5%	1/6W
▲ RN03	4822 111 91257	1K Ω	\pm 5%	1/6W
▲ RN04	4822 111 91257	1K Ω	\pm 5%	1/6W
▲ RN18	4822 116 82733	470 Ω	\pm 2%	1/4W, Fuse
▲ R725	4822 100 20681	2.7K Ω	\pm 5%	1/4W, Fusible
▲ R726		2.7K Ω	\pm 5%	1/4W, Fusible
▲ R729		2.7K Ω	\pm 5%	1/4W, Fusible
▲ R730		2.7K Ω	\pm 5%	1/4W, Fusible
R751		2.2K Ω , Trimming		
R752	4822 100 20681	2.2K Ω , Trimming		
▲ R753	4822 115 90314	68 Ω	\pm 2%	1/4W, Fuse
R756				
▲ R757	4822 116 82608	680 Ω	\pm 2%	1/4W, Fuse
▲ R758	4822 116 82608	680 Ω	\pm 2%	1/4W, Fuse
▲ R759	4822 115 90314	68 Ω	\pm 2%	1/4W, Fuse
R766				
▲ R767	4822 115 90166	10 Ω	\pm 2%	1/4W, Fuse
R774				
R775	4822 116 82049	0.18 Ω x2		3W
R778				
▲ R779	4822 116 82626	6.8 Ω	\pm 5%	1W
▲ R780	4822 116 82626	6.8 Ω	\pm 5%	1W
P701-SEMICONDUCTORS				
DN01	4822 130 80837	Diode	HSS81DC	
DN04				
D701	4822 130 33305	Diode	1SS176, etc.	
D702	4822 130 33305	Diode	1SS176, etc.	
D703	4822 130 81052	Zener	HZ5ALL	
D710				
D711	4822 130 33305	Diode	1SS176, etc.	
D716				
D717	4822 130 82363	Zener	RD6.8JB1	
D720				
D721	4822 130 33305	Diode	1SS176, etc.	
QN01	4822 209 83312	IC	TA7317P	
QN02	4822 130 43233	Transistor	2SC2240(GR, BL)	
QN03	4822 130 43233	Transistor	2SC2240(GR, BL)	
QN04	4822 130 42951	Transistor	2SA970(GR, BL)	
Q701	4822 130 42843	F.E.T.	2SK389(GR, BL)	
Q702	4822 130 42843	F.E.T.	2SK389(GR, BL)	
Q703	4822 130 42951	Transistor	2SA970(GR, BL)	
Q706				
Q707	4822 130 43233	Transistor	2SC2240(GR, BL)	
Q708	4822 130 43233	Transistor	2SC2240(GR, BL)	
Q709	4822 130 43283	Transistor	2SC2705(O, Y)	
Q710	4822 130 43283	Transistor	2SC2705(O, Y)	
Q713	4822 130 43233	Transistor	2SC2240(GR, BL)	

REF. DESIG.	PART NO.	DESCRIPTION	
Q714	4822 130 43233	Transistor	2SC2240(GR, BL)
Q715	4822 130 42951	Transistor	2SA970(GR, BL)
Q716	4822 130 42951	Transistor	2SA970(GR, BL)
Q717	4822 130 61204	Transistor	2SC2682(P, Q, E)
Q718	4822 130 61204	Transistor	2SC2682(P, Q, E)
Q719	4822 130 42997	Transistor	2SA1142(P, Q, E)
Q720	4822 130 42997	Transistor	2SA1142(P, Q, E)
Q721	4822 130 60526	Transistor	2SD1508
Q722	4822 209 60526	Transistor	2SD1508
Q723	4822 130 43283	Transistor	2SC2705(O, Y)
Q724	4822 130 43283	Transistor	2SC2705(O, Y)
Q725	4822 130 42999	Transistor	2SA1145(O, Y)
Q726	4822 130 42999	Transistor	2SA1145(O, Y)
Q731	4822 130 60116	Transistor	2SC3280(R, O)
Q732	4822 130 60116	Transistor	2SC3280(R, O)
Q733	4822 130 60109	Transistor	2SA1301(R, O)
Q734	4822 130 60109	Transistor	2SA1301(R, O)
Q735	4822 130 60116	Transistor	2SC3280(R, O)
Q736	4822 130 60116	Transistor	2SC3280(R, O)
Q737	4822 130 60109	Transistor	2SA1301(R, O)
Q736	4822 130 60109	Transistor	2SA1301(R, O)
P701-MISCELLANEOUS			
J705	4822 290 81364	Terminal, Speaker [U]	
	4822 290 81374	Terminal, Speaker /O2B/O2G	
J706	4822 290 81363	Terminal, Speaker [U]	
	4822 290 81373	Terminal, Speaker /O2B/O2G	
LN01	4822 280 20201	Relay	
L701	4822 157 51739	Coil, Speaker	
L702	4822 157 51739	Coil, Speaker	
L703	4822 281 50153	Relay	
P781-DRIVER TR(L) CIRCUIT BOARD			
Q727	4822 130 43311	Transistor	2SC3298(O, Y)
Q729	4822 130 43023	Transistor	2SA1306(O, Y)
P791-DRIVER TR(R) CIRCUIT BOARD			
Q728	4822 130 43311	Transistor	2SC3298(O, Y)
Q730	4822 130 43023	Transistor	2SA1306(O, Y)
P801-POWER SUPPLY-1 CIRCUIT BOARD			
P801-CAPACITORS			
C801	4822 124 23507	Elect	12000 μ F 63V
C804			
C805	4822 122 33895	Ceramic	1 μ F +80% -20%
P801-RESISTORS			
▲ R801	4822	6.8 Ω	+0.47 μ F
P801-SEMICONDUCTORS			
▲ D801	4822 130 30984	Diode	S5V $\frac{3}{2}$ O
▲ D802	4822 130 30984	Diode	S5V $\frac{3}{2}$ O

REF. DESIG.	PART NO.	DESCRIPTION
		P851-POWER SUPPLY-2 CIRCUIT BOARD
		P851-CAPACITORS
C851 }	4822 122 40617	Ceramic 0.1 μ F +80% -20%
C854		
C857		Elect 100 μ F 100V
C858		Elect 100 μ F 100V
C859	4822 124 23516	Elect 100 μ F 10V
C860	4822 124 23516	Elect 100 μ F 10V
C861	4822 124	Elect 10 μ F 100V
C862	4822 124	Elect 10 μ F 100V
C865	4822 124 41543	Elect 1 μ F 50V
		P851-RESISTORS
▲ R853		22 Ω \pm 2% 1/4W, Fusible
▲ R854		22 Ω \pm 2% 1/4W, Fusible
▲ R870	4822 116 60331	1K Ω \pm 5% 1W
R871	4822 116 82732	15 Ω \pm 5% 1/6W
R872	4822 116 82732	15 Ω \pm 5% 1/6W
▲ R873	4822 115 90166	10 Ω \pm 2% 1/4W, Fuse
▲ R874	4822 115 90166	10 Ω \pm 2% 1/4W, Fuse
▲ R875		100 Ω \pm 2% 1/4W, Fusible
▲ R876		100 Ω \pm 2% 1/4W, Fusible
		P851-SEMICONDUCTORS
▲ D851 }	4822 130 80839	Diode S5688G
▲ D854		
D855	4822 130 33305	Diode 1SS176, etc.
D856	4822 130 33305	Diode 1SS176, etc.
D859	4822 130 82363	Zener RD6.8JB1
D860	4822 130 82363	Zener RD6.8JB1
D861	4822 130 80837	Diode HSS81TD
D862	4822 130 80837	Diode HSS81TD
D863	4822 130 80837	Diode HSS81TD
Q851	4822 130	Transistor 2SD1407(O, Y)
Q852	4822 130	Transistor 2SB1061(O, Y)
Q855	4822 130 42951	Transistor 2SA970(GR, BL)
Q856	4822 130 43233	Transistor 2SC2240(GR, BL)
Q857	4822 130 43233	Transistor 2SC2240(GR, BL)
Q858	4822 130 42951	Transistor 2SA970(GR, BL)
Q859	4822 130 43233	Transistor 2SC2240(GR, BL)
Q860	4822 130 43233	Transistor 2SC2240(GR, BL)
		P851-MISCELLANEOUS
▲ F851	4822 253 30354	Fuse 400mA 250V /02B/02G
	4822	Fuse 630mA 250V [U]
▲ F852	4822 253 30354	Fuse 400mA 250V /02B/02G
		Fuse 630mA 250V [U]
		P921-POWER LED CIRCUIT BOARD
D921	4822 130 80326	L.E.D. LT3D8B RED 30

REF. DESIG.	PART NQ.	DESCRIPTION
		P951-AC OUTLET CIRCUIT BOARD [U]
▲ F951		Fuse 8A 250V [U]
▲ J951		Jack, AC Outlet [U]
J952	4822 256 30285	Jack, Fuse Clip [U]
J953	4822 256 30285	Jack, Fuse Clip [U]
		P971-AC OUTLET CIRCUIT BOARD /02B/02G
▲ F971	4822 253 30199	Fuse 4A 250V /02B/02G
▲ F972	4822 253 40166	Fuse T2.5A 250V /02B/02G
▲ J971	4822 267 31194	Jack, AC Outlet /02B/02G

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.