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SERVICE
MANUAL

PM-80

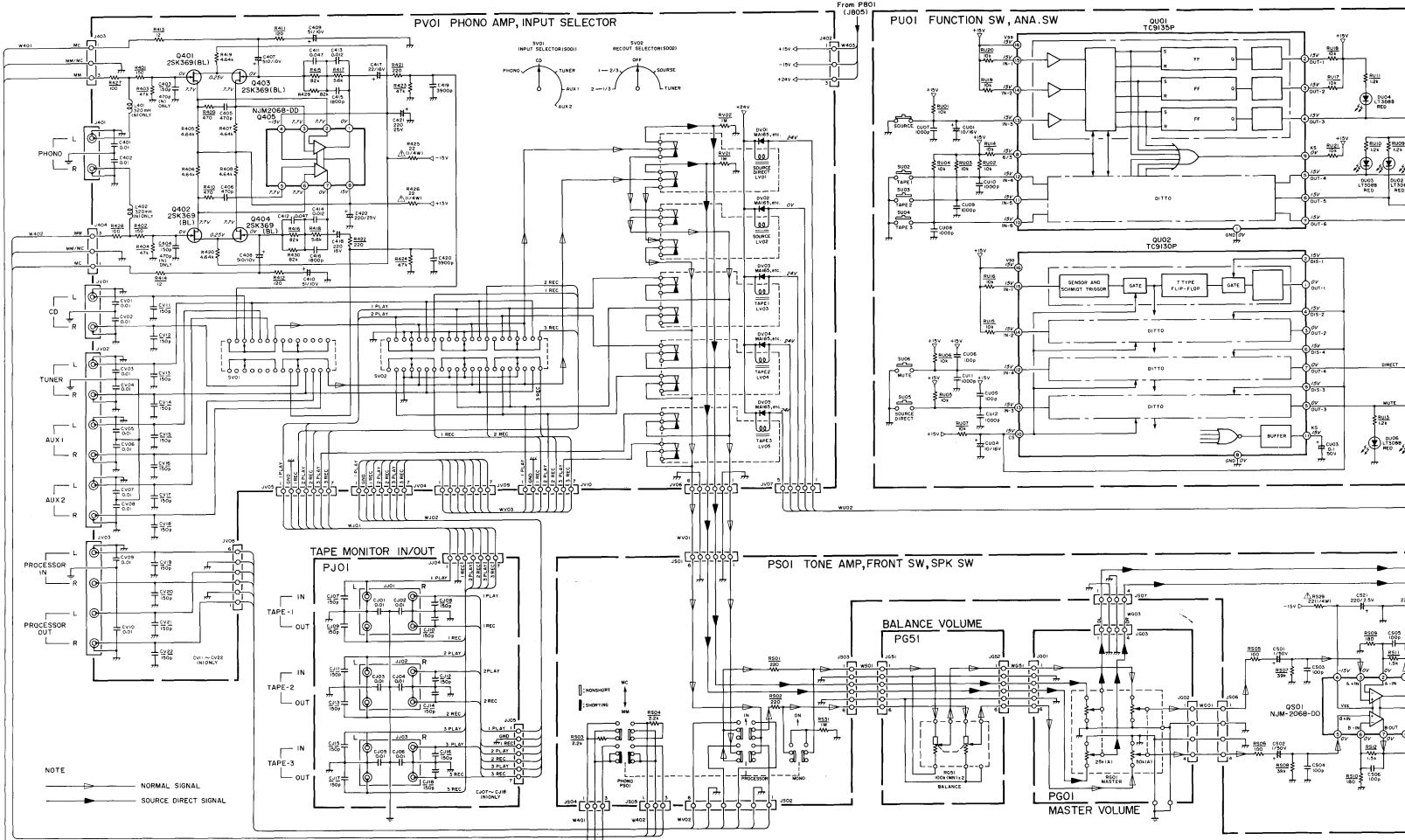
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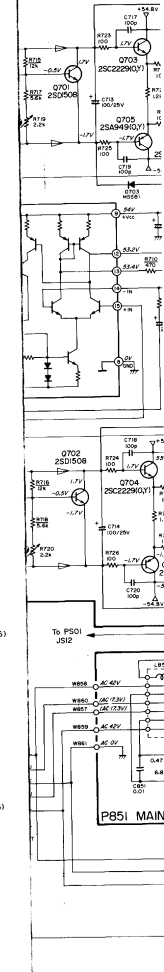
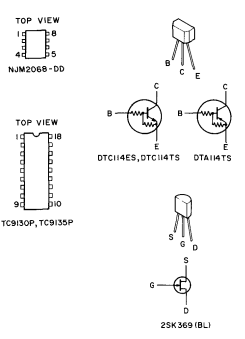
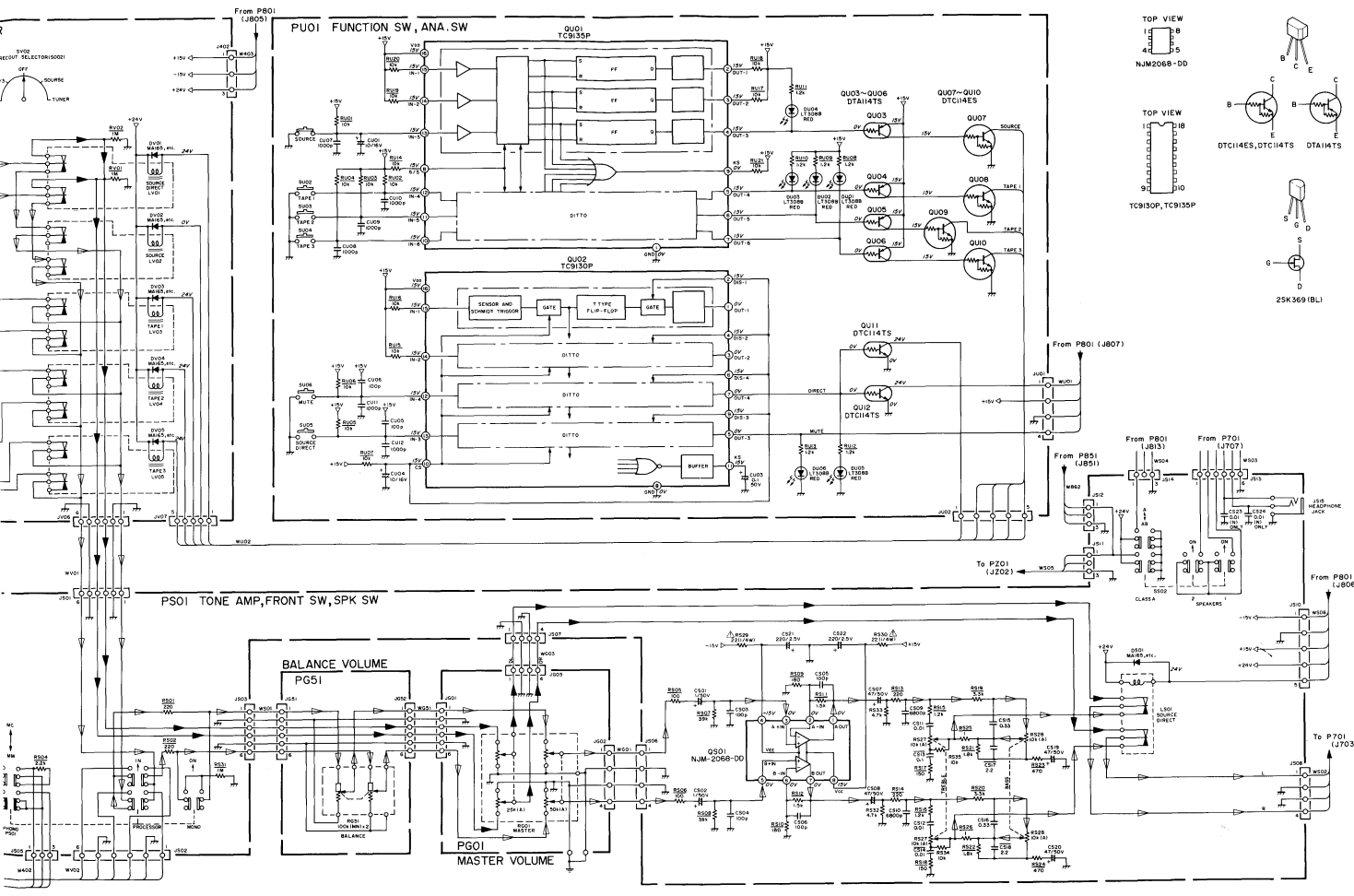
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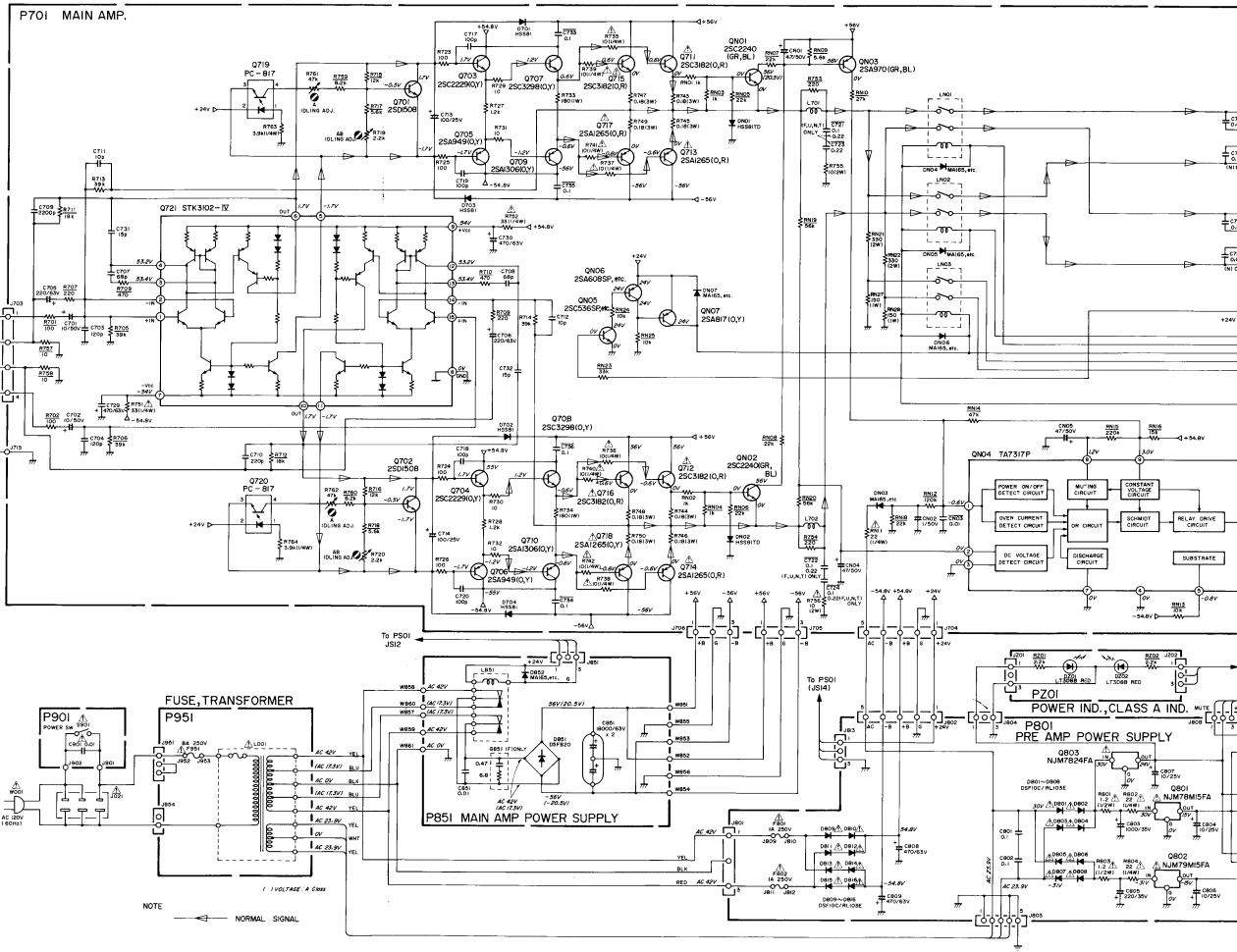
model PM-80

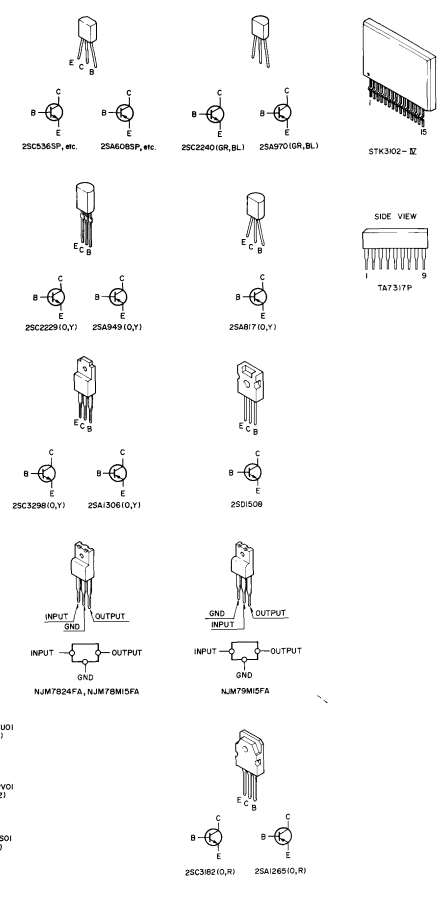
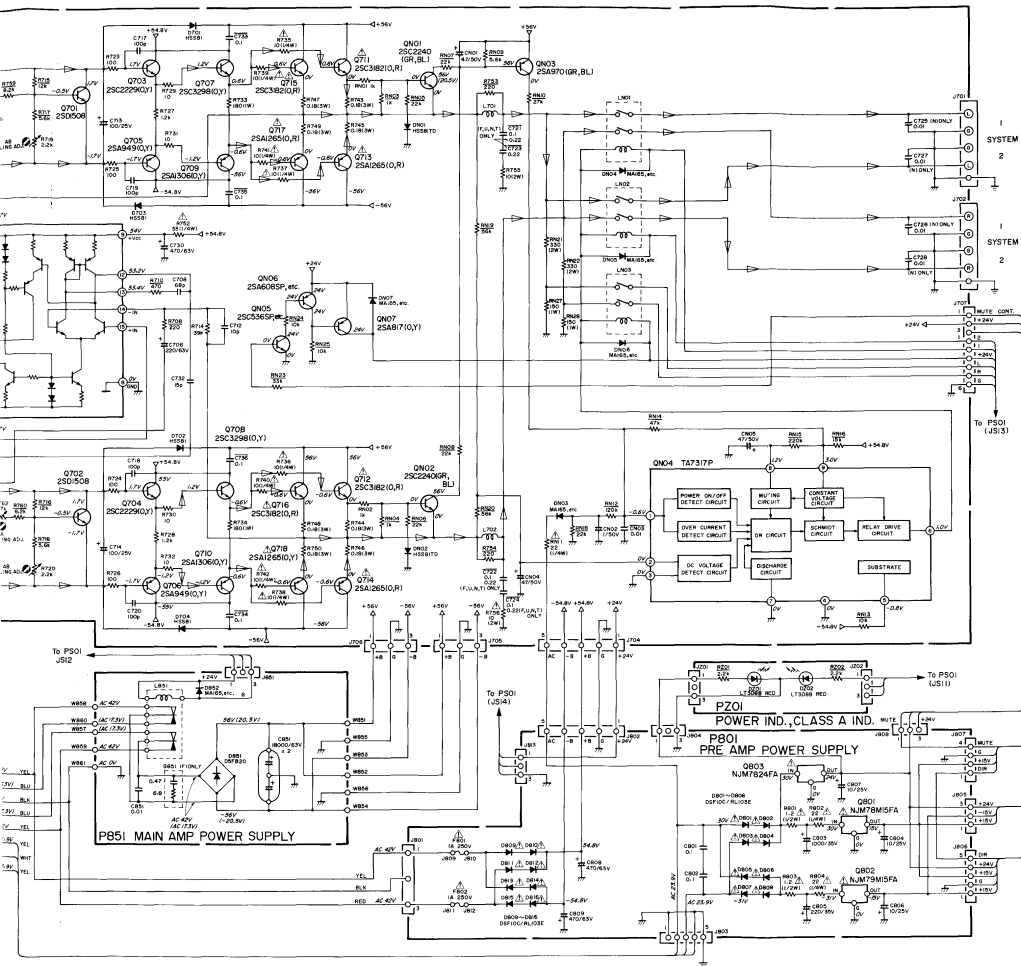
Integrated Amplifier

2. SCHEMATIC DIAGRAM AND PARTS LOCATIONS (PATTERN SIDE)









REF. DESIG.	PART NO.	DESCRIPTION
001B		Front Panel Assembly (BLK) [A, E, N, T, W] Front Panel Assembly (GLD) [E, W] Front Panel Assembly (GLD) [N]
024B	4822 413 41542	Knob, Volume (GLD)
	4822 413 41544	Knob, Volume (BLK)
025B	4822 410 60334	Button, Push (GLD)
	4822 410 60343	Button, Push (BLK)
026B	4822 411 10051	Knob, Rec/Tone/Bal. (GLD)
	4822 413 31551	Knob, Rec/Tone/Bal. (BLK)
027B	4822 413 31582	Knob, Selector (GLD)
	4822 413 41545	Knob, Selector (BLK)
007D	4822 444 60607	Cap, Side Panel (GLD) [N]
003F	4822 492 63973	Spring (Q721)
004F		Insulator
005G	4822 462 41189	Leg
909G	4822 532 60948	Bushing, AC Cord [A, N, T, W] Bushing, AC Cord [E]
004L	4822 502 12512	B.T. Screw B3 x 12
F001	4822 253 30027	Fuse 3.15A 250V [E]
F002	4822 253 30243	Fuse 6.3A 250V [E]
J001	4822 256 30233	Jack, Fuse Holder [E]
J021	4822 264 30266	Jack, AC Outlet [E]
J031	4822 290 40297	Terminal, GND
J092	4822 272 10227	Voltage Selector [E]
Δ L001	4822 146 21453	Power Transformer [A, N, T, W]
	4822 146 21454	Power Transformer [E]
S001	4822 273 10188	Rotary Switch, Input
S002	4822 273 10189	Rotary Switch, Recout
001T	4822 736 20417	User Manual

6. IDLING CURRENT ADJUSTMENT

- (1) Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Then, rotate the semi-fixed resistors R719/R761 (L CH) and R720/R762 (R CH) on the PC board P701 fully counterclockwise.
- (2) Connect a digital voltmeter, set for the DC voltage input, to the pertinent test points (the marked ones of P709-P712) on the PC board P701. (Positive: J709/J710, Negative: J711/J712)
- (3) After the completion of the above setup, perform the class-AB idling current adjustment as follows:
Switch the power ON and adjust the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board P701 according to the reading of the digital voltmeter. The setting values are 18 mV (50.0 mA) of the both channels.
- (4) After the completion of the class-AB idling current adjustment, perform the class-A idling current adjustment as follows:
Press the Class-A switch and adjust the semi-fixed resistors R761 (L CH) and R762 (R CH) on the PC board P701 to set 198 mV (500 mA).

Note: For idling current adjustment, be sure to perform first class-AB, then class-A.

Please refer to the table below.

Elapsed time after power ON	Idling current setting value
30 sec. ~ 1 min.	17.5 mV
1 min. ~ 2 min.	19 mV
2 min. ~ 4 min.	19.5 mV
More than 4 min.	18 mV

Elapsed time after Class-A switch ON	Idling current setting value
30 sec. ~ 1 min.	205 mV
1 min. ~ 2 min.	205 mV
2 min. ~ 4 min.	200 mV
More than 4 min.	198 mV

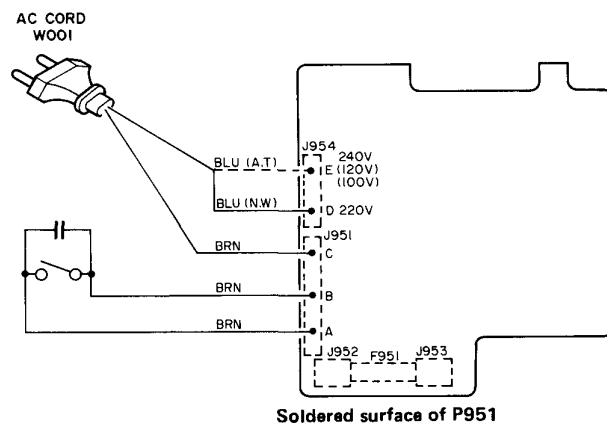
Note on Safety:

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.

7. HOW TO CHANGE THE SUPPLY VOLTAGE (A/N/T/W Versions)

With the PM-80 A and T Versions, the rated supply voltage of 240V can be changed to 220V. In the same way, the 220V rated supply voltage of the PM-80 N and W Versions can be changed to 240V.

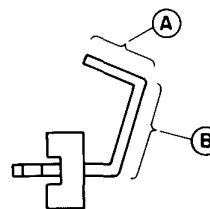
Refer to the following diagram for the voltage change procedure.



After binding solder around the terminal, bundle the brown wire and blue wire together and tighten them with a tightener.

Note on Terminals J951 and J954

Wrapping terminals J951 and J954 on the P951 PC board are critical components for the safety. Please observe the following caution when working these terminals.



Terminal side view

Wrapping shall be performed within range A.
When binding up solder, apply solder within range B.

REF. DESIG.	PART NO.	DESCRIPTION
P801-SEMICONDUCTORS		
△ D801	4822 130 32508	Diode DSF10C/RL103E
△ D802	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D803	4822 130 32508	Diode DSF10C/RL103E
△ D804	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D805	4822 130 32508	Diode DSF10C/RL103E
△ D806	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D807	4822 130 32508	Diode DSF10C/RL103E
△ D808	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D809	4822 130 32508	Diode DSF10C/RL103E
△ D810	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D811	4822 130 32508	Diode DSF10C/RL103E
△ D812	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D813	4822 130 32508	Diode DSF10C/RL103E
△ D814	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ D815	4822 130 32508	Diode DSF10C/RL103E
△ D816	4822 130 32508	Diode DSF10C/RL103E [N, T]
△ Q801	4822 209 82829	IC NJM78M15FA
△ Q802	4822 209 61526	IC NJM79M15FA
△ Q803	4822 209 73873	IC NJM7824FA
P801-MISCELLANEOUS		
△ F801	4822 253 30201	Fuse 1A 250V
△ F802	4822 253 30201	Fuse 1A 250V
P851-MAIN AMP POWER SUPPLY CIRCUIT BOARD		
C851	4822 124 23067	Elect Cap. 18000μF/63V x 2
C852	4822 122 40545	Ceramic Cap. 0.01μF ±10%
D851	4822 130 33132	Diode D5FB20
D852	4822 130 33305	Diode MA165, etc.
L851	4822 280 20403	Relay MC24D2-0
P901-POWER SWITCH CIRCUIT BOARD		
△ C901	4822 122 33276	Ceramic Cap. 0.01μF ±20%
△ S901	4822 276 12647	Push Switch, Power
P951-FUSE/TRANSFORMER CIRCUIT BOARD		
△ F951	4822 253 30027	Fuse 3.15A 250V [A,N,T,W]
△ L001	4822 146 21453 4822 146 21454	Power Transformer [A, N, T, W] Power Transformer [E]

JSE
JSE

.RD
30
30

50V
50V
50V
50V

50V
50V

63V
63V

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.