

# TOSHIBA

STEREO POWER AMPLIFIER

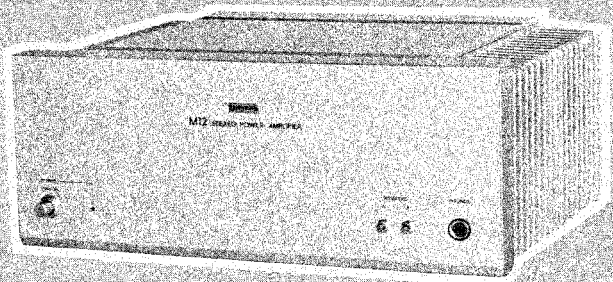
# SC-M12, SC-M12B

For TE, TU, AY

For TA, TC



SC-M12



SC-M12



SC-M12B

## SPECIFICATIONS

<b>Power Output:</b> Continuous Power Output is 30 watts per channel, min. RMS at 8 ohms from 20 to 20,000 Hertz with no more than 0.04% total harmonic distortion (TA, TC)	<b>Frequency Response:</b> 10 to 45 kHz +0.5, -1 dB
<b>Continuous Power Output</b> 20 Hz to 20 kHz both channel driven:	<b>Power Bandwidth (IHF):</b> 10 Hz to 30 kHz (0.1%)
35W x 2 (4 ohm)	<b>Damping Factor:</b> 30
30W x 2 (8 ohm)	<b>S/N (IHF) A Network:</b> 110 dB
1 kHz both channel driven:	<b>General</b>
40W x 2 (4 ohm)	<b>Power Supply:</b> 220V ~ 50 Hz
35W x 2 (8 ohm)	or 240V ~ 50 Hz
<b>Total Harmonic Distortion:</b> 0.05% (TE, TU, AY)	(TE, TU, AY)
0.04% (TA, TC)	120V ~ 60 Hz (TA, TC)
(at rated power, 8 ohm)	<b>Power Consumption:</b> 260W (TE, TU, AY)
	190W, (TA, TC)
	<b>Weight:</b> 5.1 kg
	<b>Dimensions (W x H x D):</b> 257 x 106 x 208 mm

Specifications are subject to change without notice.

TA, TC, TE, TU, AY

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## 1. BLOCK DIAGRAM

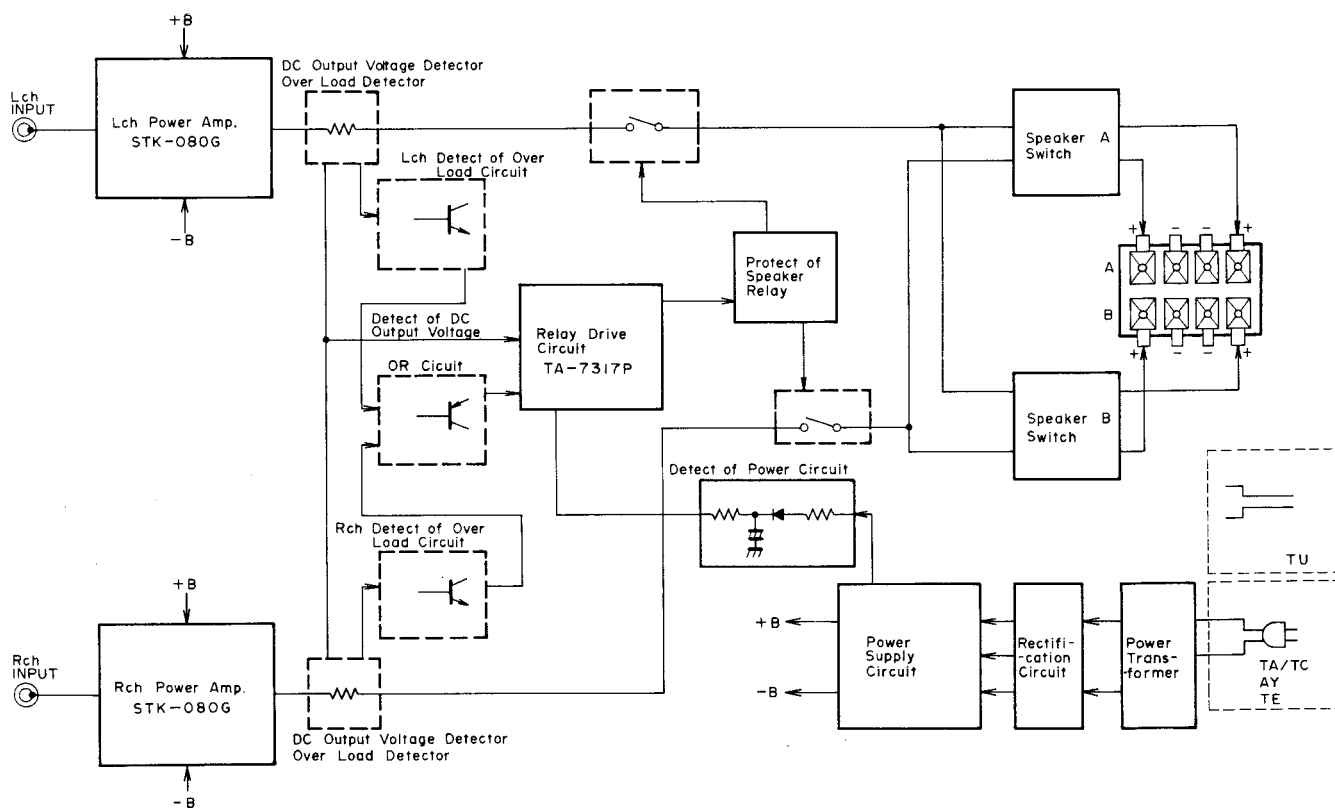


Figure 1.

## 2. OPERATING CONTROLS

(The photographs are ones of SC-M12, European Model)

### FRONT VIEW

#### POWER SWITCH

When this switch is pushed, power is supplied to the set and the power indicator lights up. Push again to turn off power.

#### POWER INDICATOR

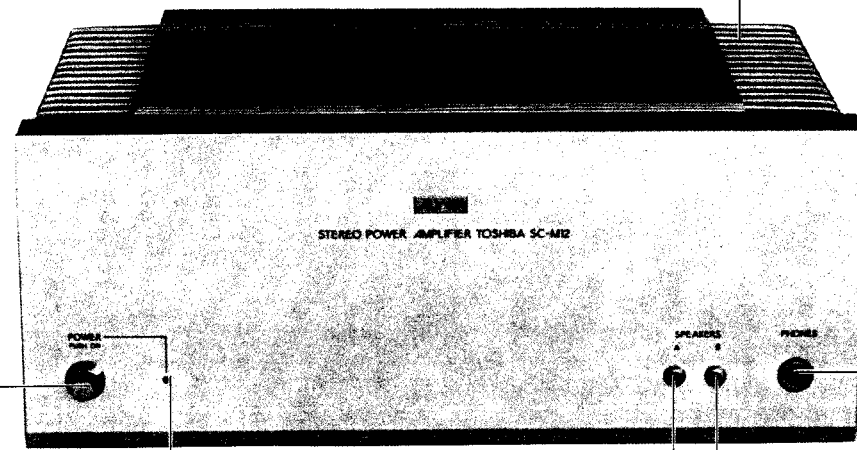
#### SPEAKER PUSH-BUTTON

Two push-buttons correspond to the speaker terminals on the rear panel. Select according to the speaker system arrangement being used.

#### COOLING FINS

These fins effectively dissipate the heat generated by the output power I.C.

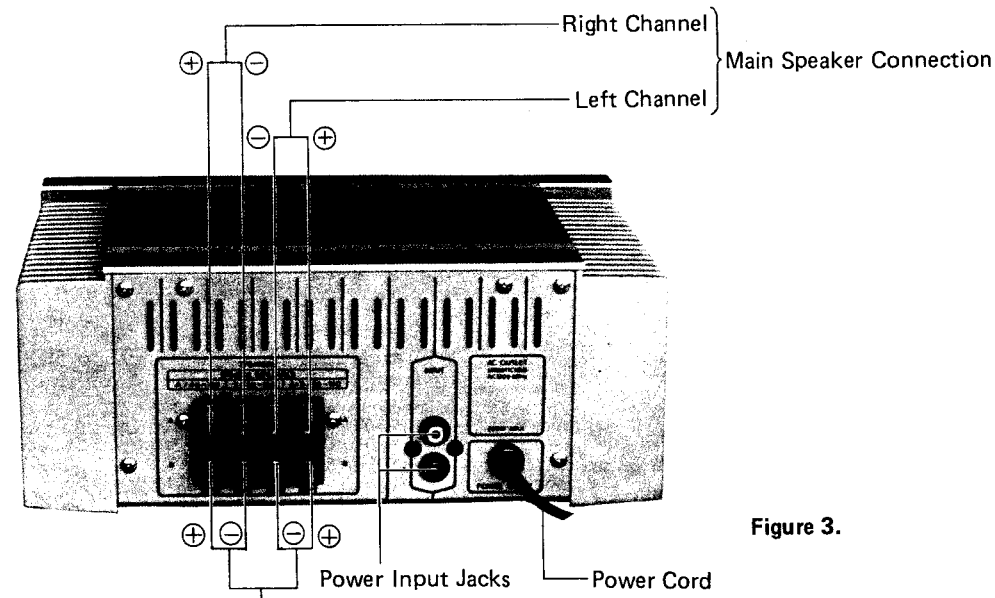
\* These fins become fairly hot after the set has been operated continuously for an extended period of time. Therefore, ample caution must be exercised when carrying or otherwise handling the set.



PHONES JACK

Figure 2.

### REAR VIEW



Sub Speaker Connection

Note: The Rating and CAUTION LEVEL are on the bottom of the set.

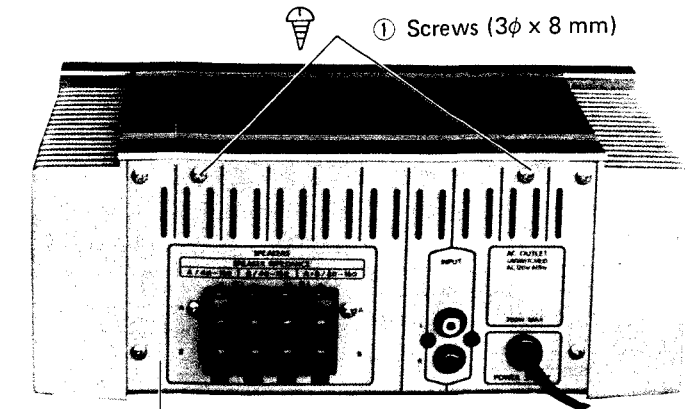
Figure 3.

## 3. DISASSEMBLY INSTRUCTIONS

(The photographs are ones of SC-M12, European Model)

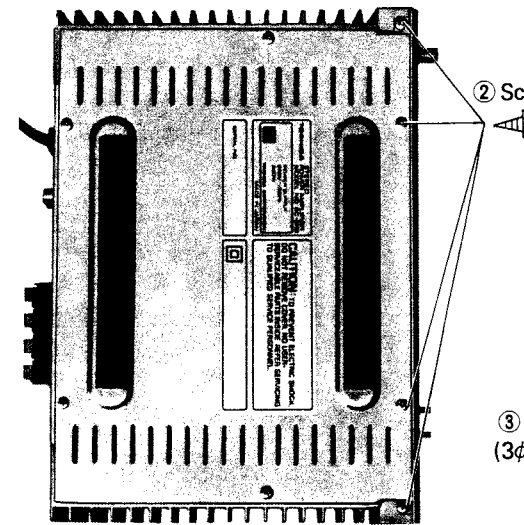
### REMOVAL OF FRONT PANEL

1. Remove the two BID tapping screws ① (3φ x 8 mm) on the jack plate side as shown in Figure 4.
2. Remove the four screws ② (3φ x 8 mm) on the bottom plate side as shown in Figure 5.
3. Remove the front panel, lifting the rear portion of the panel upright.



Jack Plate

Figure 4.



Back

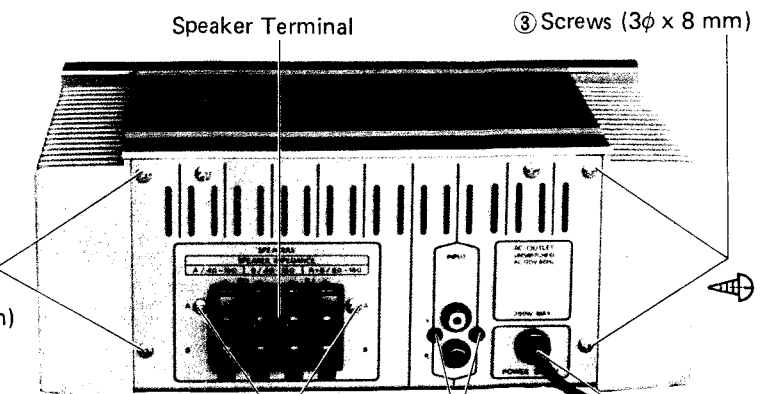
Figure 5.

Front

② Screws (3φ x 8 mm)

③ Screws (3φ x 8 mm)

④ Screws (3φ x 8 mm)



Speaker Terminal

③ Screws (3φ x 8 mm)

④ Screws (3φ x 8 mm)

⑤ Rivet (3φ x 4.5 mm)

Cord Bush

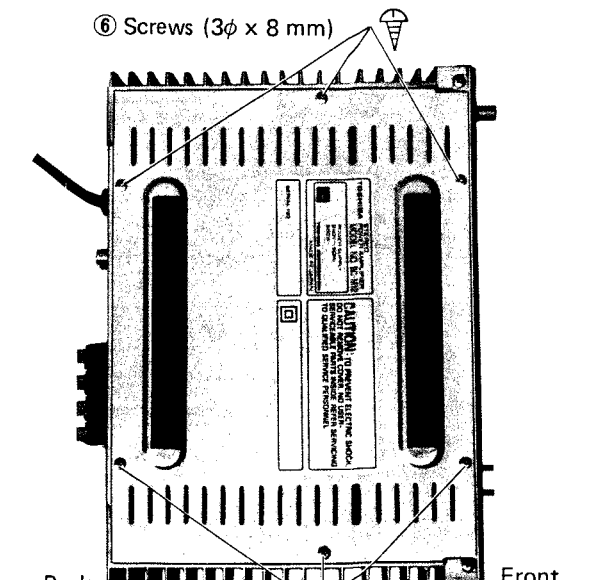
Figure 6.

### REMOVAL OF JACK PLATE

1. Remove the four BID tapping screws ③ (3φ x 8 mm) on the jack plate as shown in Figure 5.
2. Remove the two BID tapping screws ④ (3φ x 8 mm) holding the speaker terminals as shown in Figure 5.
3. Remove the two plastic rivets ⑤ (3φ x 4.5 mm) holding the 2 pin jack as shown in Figure 6.
4. It is capable of replacing the jack plate to remove the cord bush as shown in Figure 6.

### REMOVAL OF BOTTOM PLATE

1. Remove the six BID tapping screws ⑥ (3φ x 8 mm) on the bottom plate and the bottom plate can be removed from the main chassis as shown in Figure 7.



Back

Front

⑥ Screws (3φ x 8 mm)

Figure 7.



SC-M12  
SC-M12B

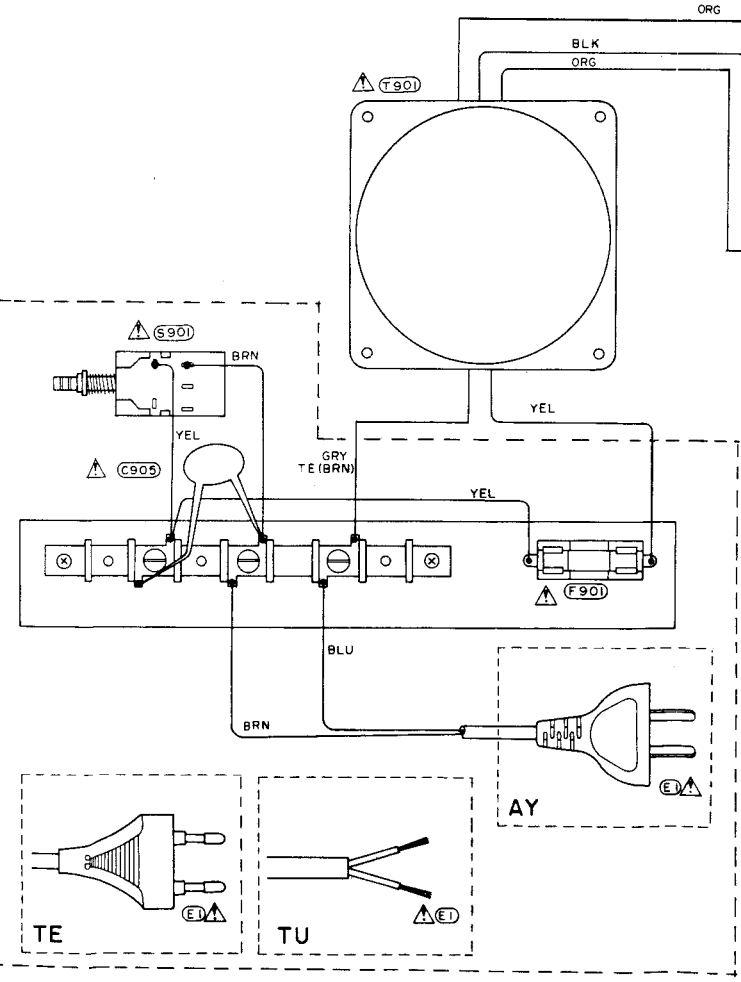
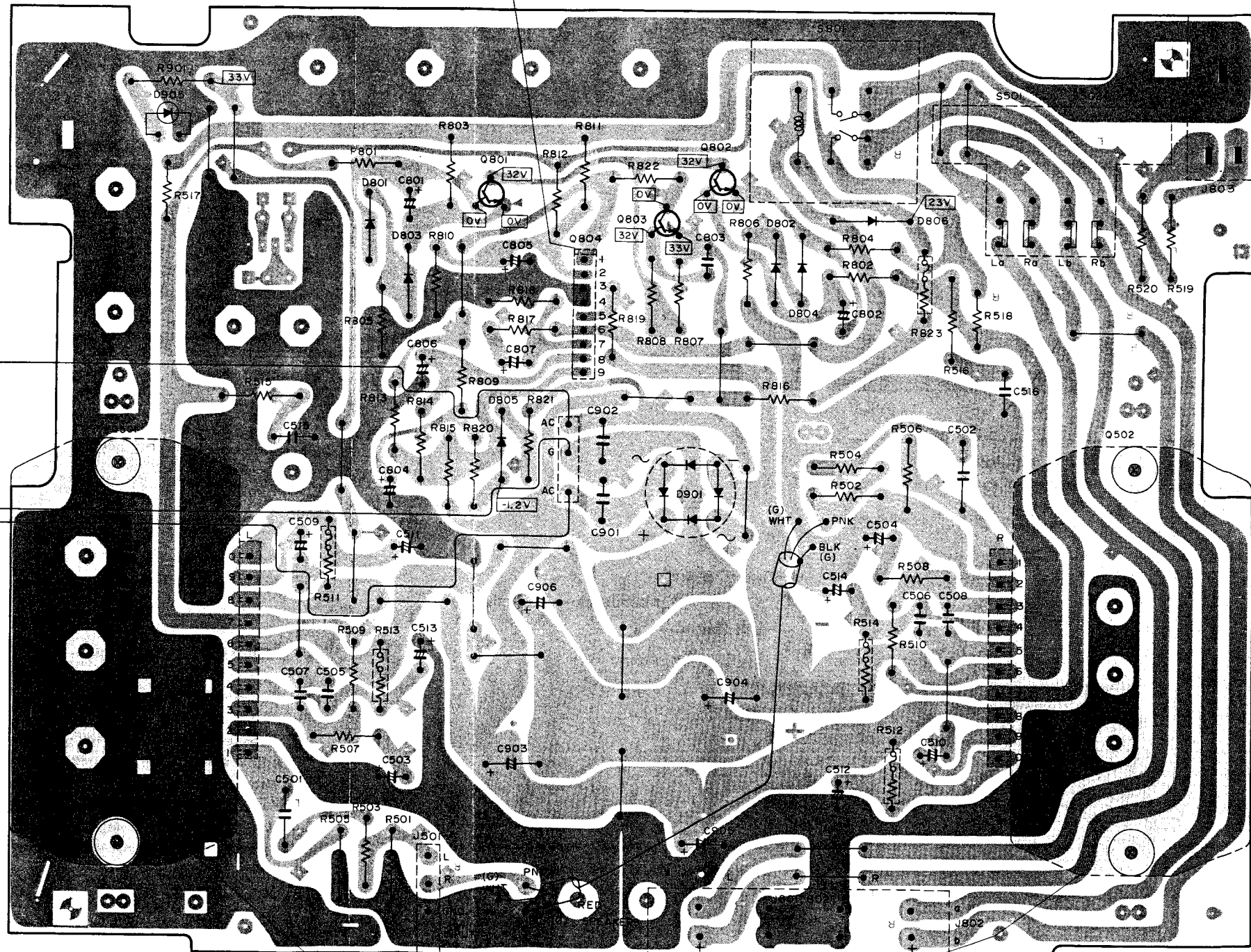
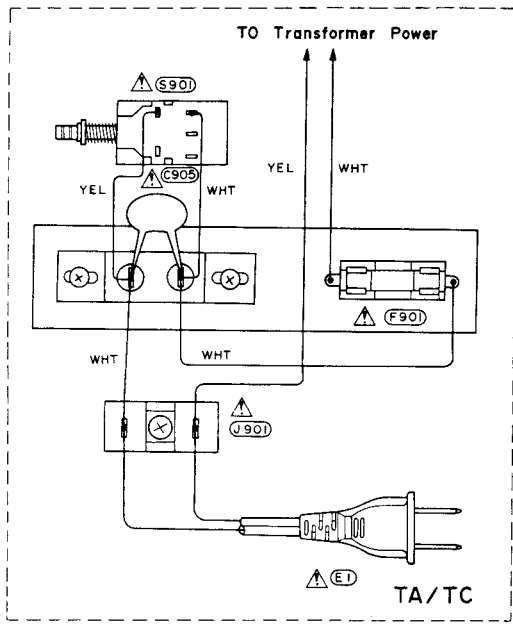
SC-M12  
SC-M12B

### 4. ELECTRICAL PARTS LOCATIONS

**CAUTION:** The  $\Delta$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Q804

1	2	3	4	5	6	7	8	9
-0.1V	0V	0V	0V	-0.8V	1.1V	0V	1V	3V



Q501, 502

1	2	3	4	5	6	7	8	9	10
0.2V	0V	0.2V	-32V	-1.2V	-33V	0V	33V	1.1V	32V

Figure 8

### 4. ELECTRICAL PARTS LOCATIONS

**CAUTION:**

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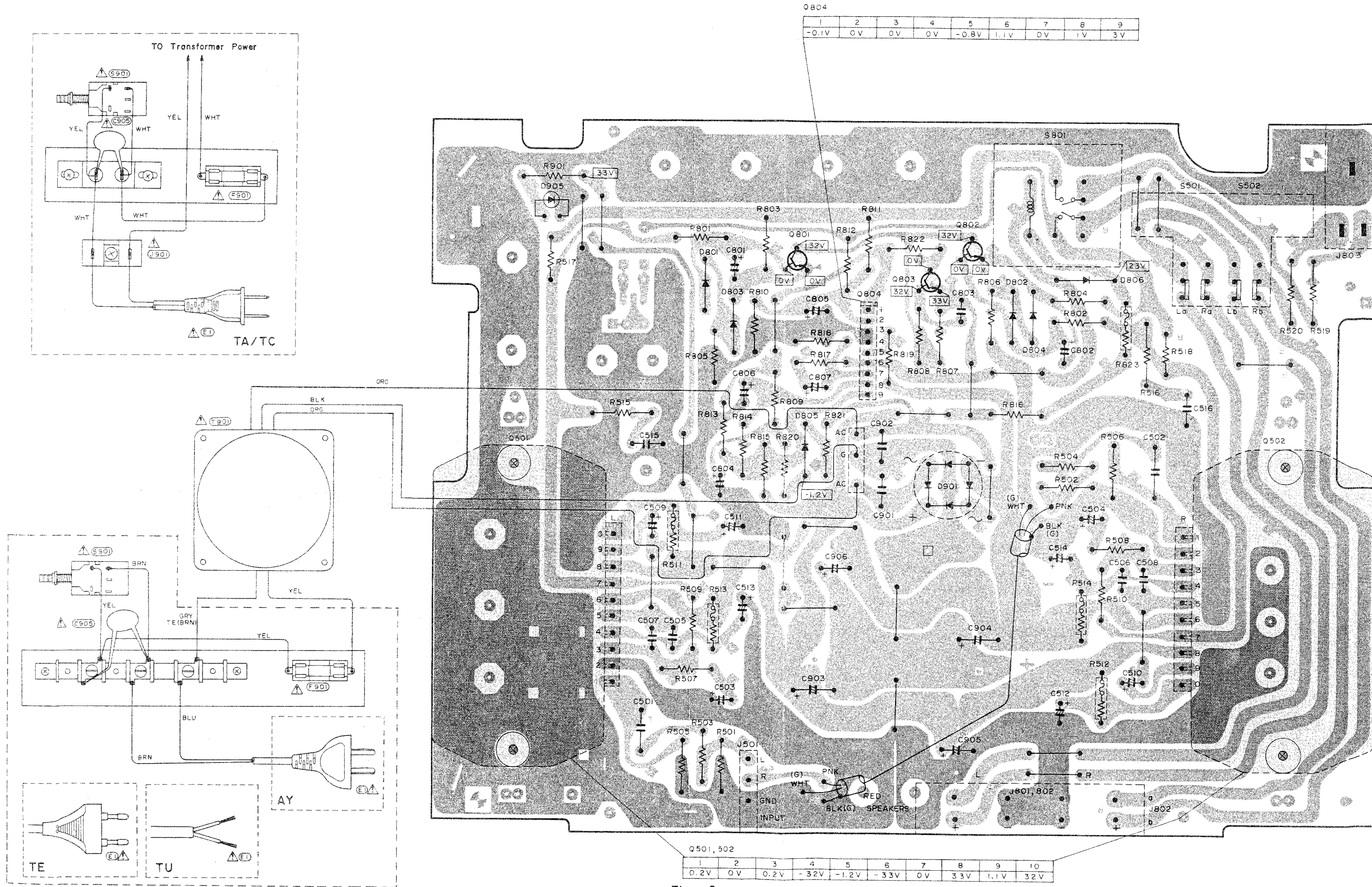
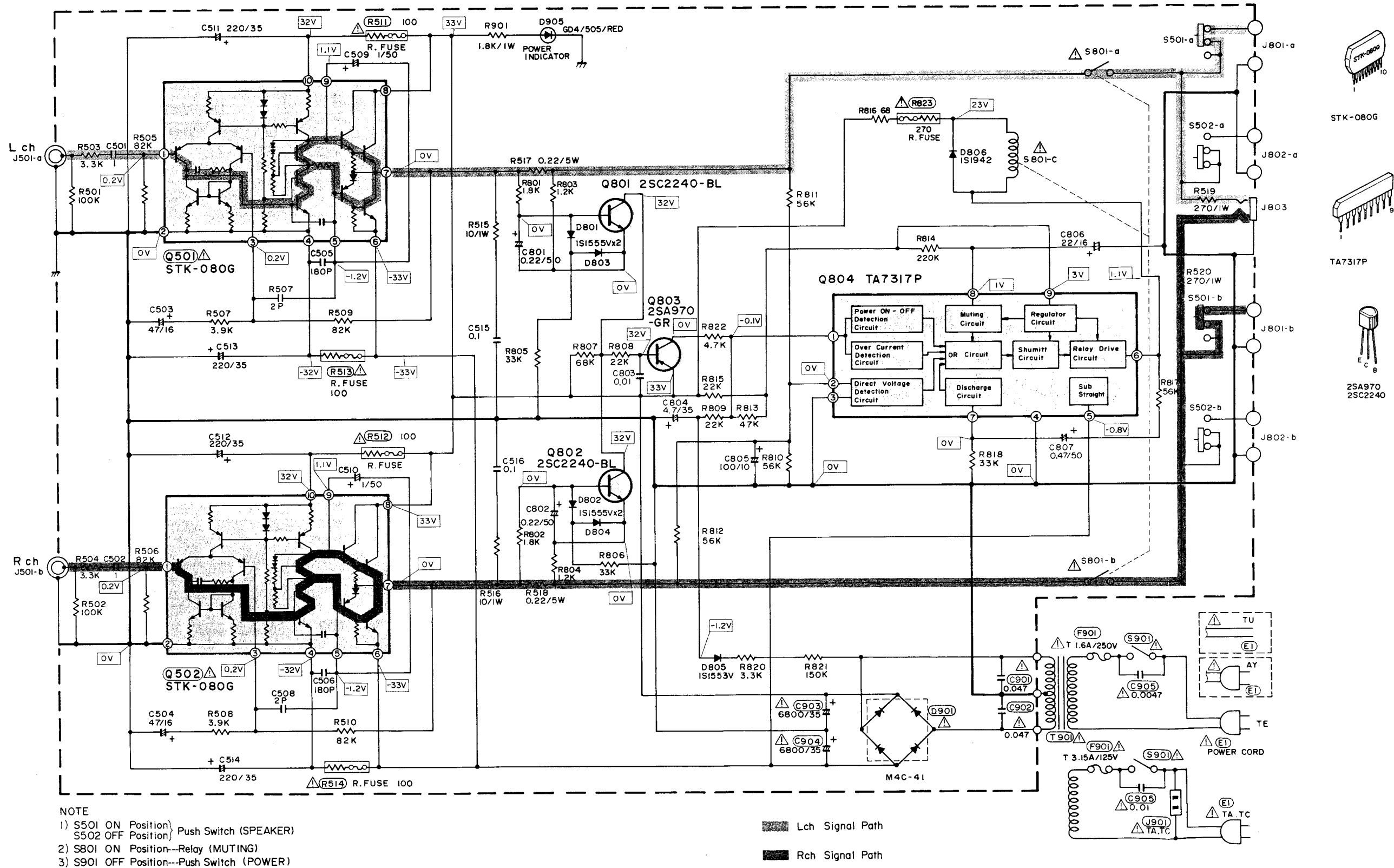


Figure 8

### 5. SCHEMATIC DIAGRAM

**CAUTION:**

The  $\Delta$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.



NOTE  
 1) S501 ON Position } Push Switch (SPEAKER)  
    S502 OFF Position }  
 2) S801 ON Position--Relay (MUTING)  
 3) S901 OFF Position--Push Switch (POWER)

▨ Lch Signal Path  
 ■ Rch Signal Path

Figure 9.





Symbol No.	Part No.	Description
C513, 514	22487221	EL, 220 mfd, 35V
C515, 516	22373104	MY, 0.1 mfd, 50V, M
C801, 802	22488228	EL, 0.22 mfd, 50V
C803	22371103	MY, 0.01 mfd, 50V, J
C804	22488479	EL, 4.7 mfd, 35V
C805	22483101	EL, 100 mfd, 10V
C806	22485220	EL, 22 mfd, 16V
C807	22488478	EL, 0.47mfd, 50V
△ C901, 902	22342473	CD, 0.047 mfd, 50V, Z
△ C903, 904	22440335	EL, 6800 mfd, 35V
△ C905	22340147	CD, 0.0047 mfd, AC 400V, M (TE, TU, AY)
△ C905	22340140	CD, 0.01 mfd, AC 125V, P (TA, TC)
<b>RESISTORS</b>		
All resistors are 1/4W, ±5%, carbon film unless otherwise noted. K=±10%		
R501, 502	22545104	100k ohm
R503, 504	22545332	3.3k ohm
R505, 506	22545823	82k ohm
R507, 508	22545392	3.9k ohm
R509, 510	22545823	82k ohm
△ R511, 512	22500122	100 ohm, Fusible
△ R513, 514	22500122	100 ohm, Fusible
R515, 516	22570250	10 ohm, 1W
R517, 518	22500186	0.22 ohm, 5W, K
R519, 520	22570267	270 ohm, 1W
R801, 802	22545182	1.8k ohm
R803, 804	22545122	1.2k ohm
R805, 806	22545333	33k ohm
R807	22545683	68k ohm
R808	22545223	22k ohm
R809	22545223	22k ohm
R810	22545563	56k ohm
R811	22545563	56k ohm
R812	22545563	56k ohm
R813	22545473	47k ohm
R814	22545224	220k ohm
R815	22545223	22k ohm
R816	22545680	68 ohm
R817	22545563	56k ohm
R818	22545333	33k ohm
R819	22545223	22k ohm
R820	22545332	3.3k ohm
R821	22545154	150k ohm
R822	22545472	4.7k ohm
△ R823	22500135	270 ohm, Fusible
R901	22570277	1.8kohm, 1W

Symbol No.	Part No.	Description
<b>ACCESSORIES</b>		
	22902460	Owner's Manual (TE, TU, AY)
	22902509	Owner's Manual (TA, TC)