

STR-2800L

AEP Model
UK Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements: 110, 120, 220 or 240 V ac adjustable,
50/60 Hz

Power Consumption: 250 W (UK model)
170 W (AEP model)

Dimensions: Approx. 485 (w) x 145 (h) x 375 (d) mm
19¹/₁₆ (w) x 5³/₄ (h) x 14¹/₁₆ (d)
inches
including projecting parts and controls

Weight: Approx. 9.5 kg, 20 lb 15 oz (net)
Approx. 11 kg, 24 lb 4 oz (with shipping
carton)

FM SECTION

Tuning Range: 87.5 – 108 MHz

Antenna: 300 Ω balanced
75 Ω unbalanced

Sensitivity: at S/N 50 dB quieting
4 μ V (MONO)
45 μ V (STEREO)
at S/N 46 dB quieting
4.5 μ V (MONO) (40 kHz deviation)
50 μ V (STEREO) (40 kHz deviation)
Usable sensitivity
1.9 μ V, IHF
1.7 μ V, S/N = 26 dB
(40 kHz deviation)

Harmonic Distortion: at 100 Hz 0.2% (MONO)
0.5% (STEREO)
at 1 kHz 0.2% (MONO)
0.3% (STEREO)
at 10 kHz 0.2% (MONO)
0.8% (STEREO)

**Alternate Channel
Selectivity:**

60 dB (400 kHz)
40 dB (300 kHz, S/N = 26 dB, 40 kHz
deviation)

IM Distortion: 0.2% (MONO)
0.5% (STEREO)

Separation: 35 dB (100 Hz)
40 dB (1 kHz)
35 dB (10 kHz)

RF Intermodulation: 55 dB

Muting Threshold: Approx. 5 μ V

Image Rejection: 45 dB

IF Rejection: 90 dB

Spurious Rejection: 75 dB

AM Suppression: 54 dB

Capture Ratio: 1.5 dB

S/N Ratio: 70 dB (MONO)
68 dB (STEREO)

Frequency Response: 40 – 12,500 Hz \pm 1 dB
30 – 15,000 Hz \pm 3 dB

AM SECTION

Tuning Range: MW 530 – 1,605 kHz
LW 150 – 350 kHz

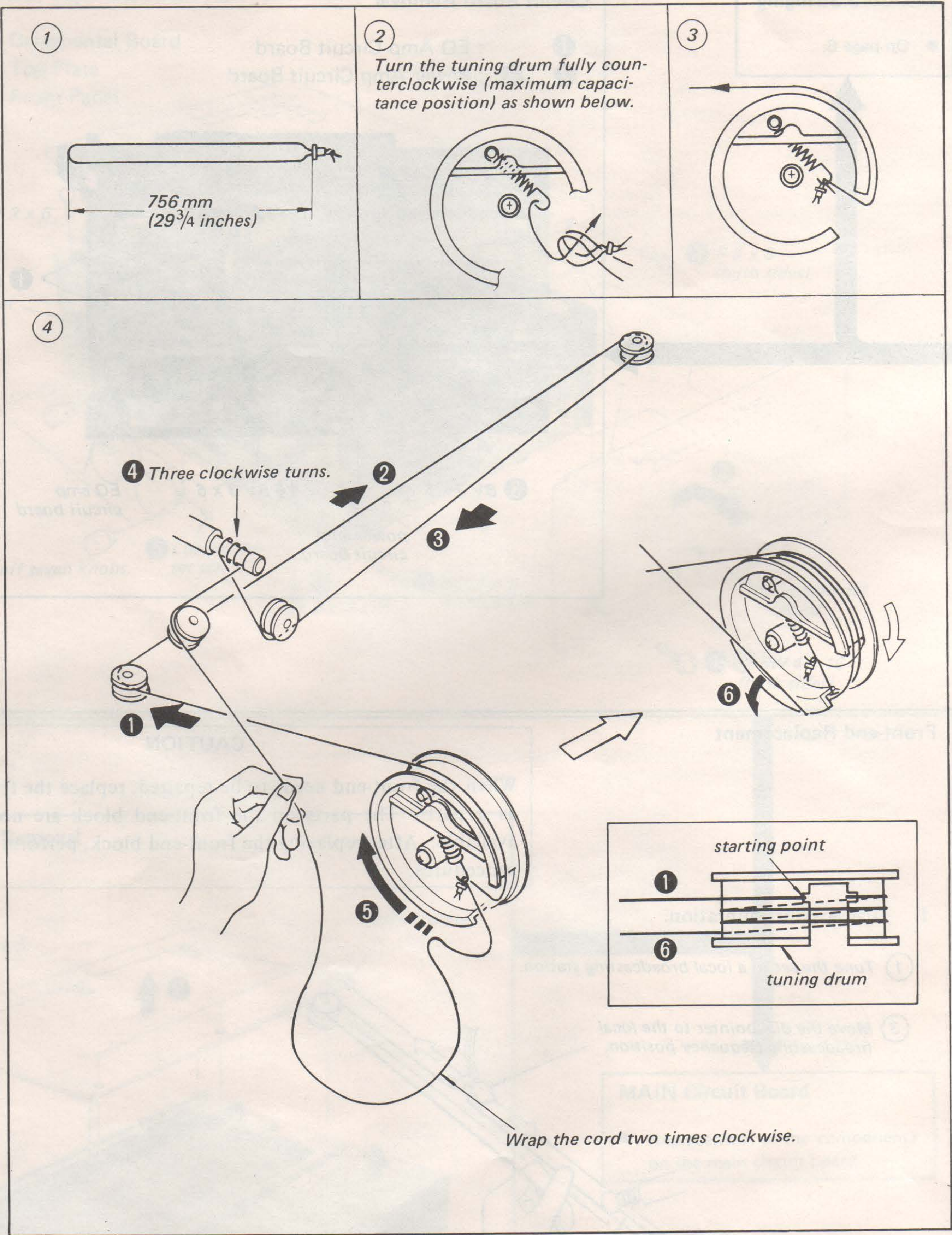
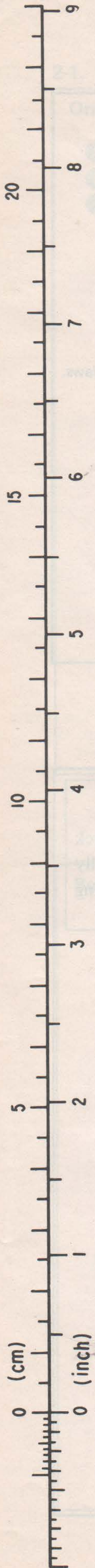
– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY
SERVICE MANUAL

2-2. DIAL CORD STRINGING



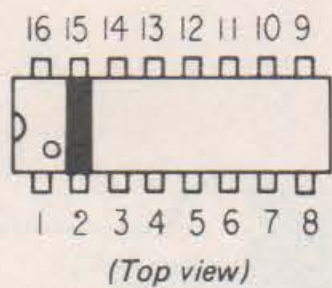
SECTION 4
DIAGRAMS

4-3. MOUNTING DIAGRAM

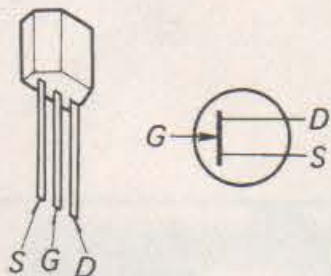
Replacement Semiconductors

For replacement, use semiconductors except in ().

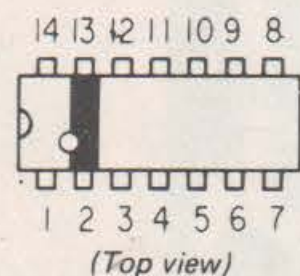
IC201: HA1137W



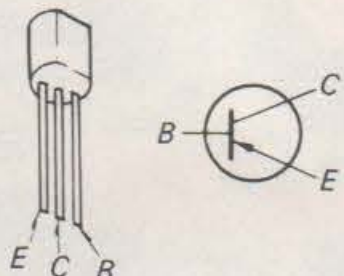
Q603, 653: 2SK23A-534 (2SK23A)



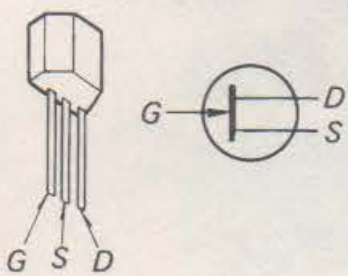
IC202: HA1156



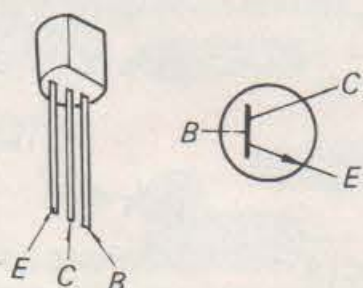
Q703, 753: 2SA896
Q706, 756: 2SA684 (2SA777)



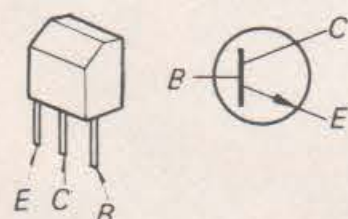
Q101: 2SK42



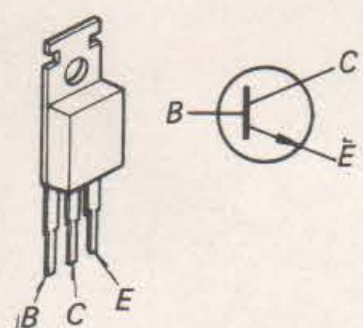
Q704, 754: 2SC1811
Q705, 755: 2SC1475 (2SC1509)



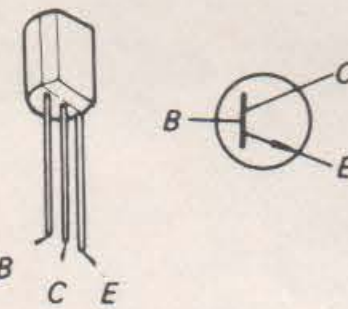
Q102: 2SC535



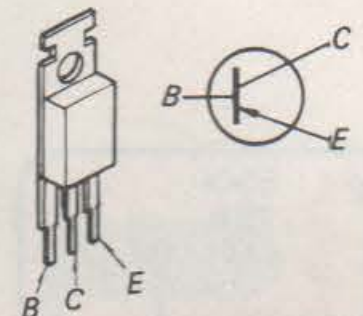
Q707, 757: 2SC1061 (2SD531)
Q801: 2SC1173 (2SD531)



Q103, 404: 2SC710

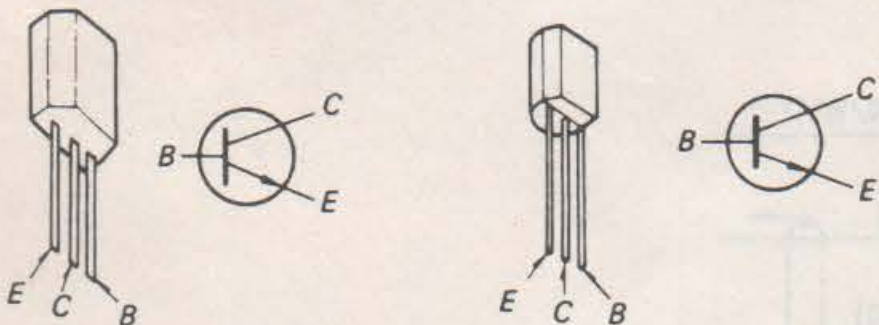


Q708, 758: 2SA671 (2SB521)



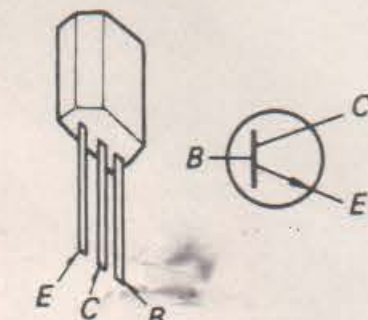
Q201, 202 }
Q405 } : 2SC634A (2SC1364)
Q701, 702 }
Q751, 752 }
Q501, 551 } : 2SC632A (2SC1362)
Q602, 652 }
Q601, 651: 2SC632A (2SC1364)

D201 - 203 }
D401, 402 } : 1S1555 (1T40)
D601, 651 }
D403, 404: 1T22A
D801 - 806: 10E2



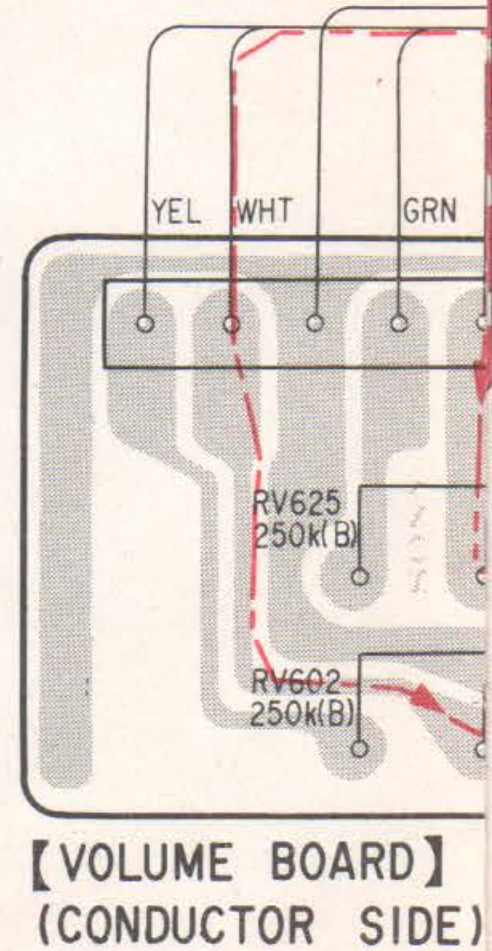
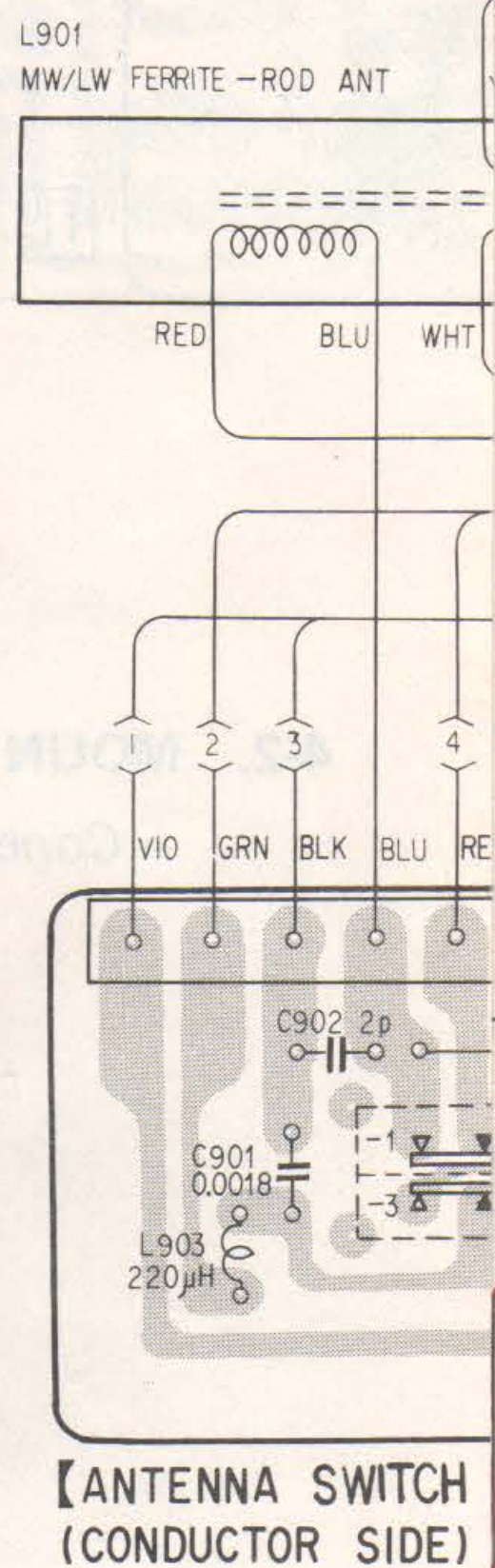
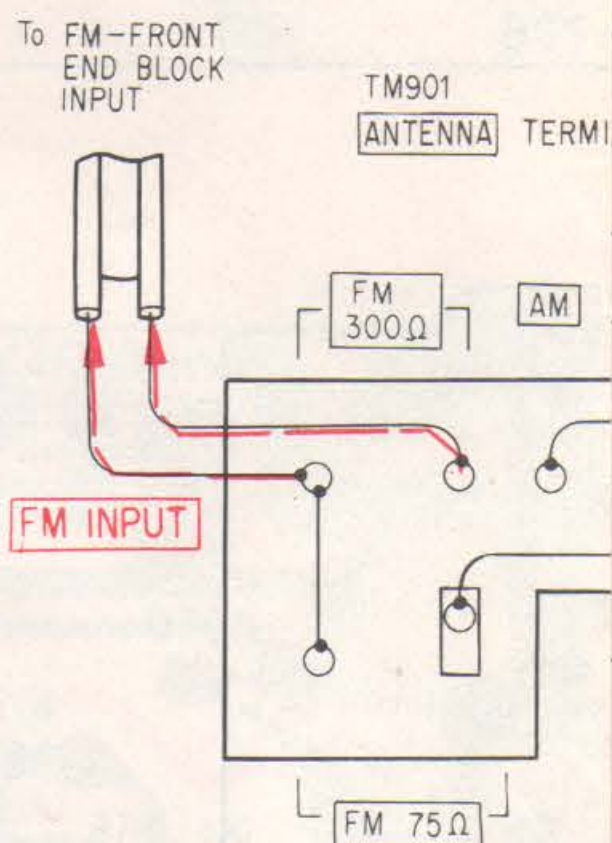
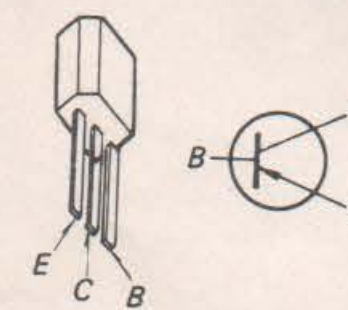
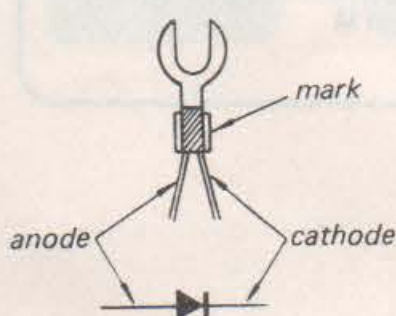
Q301, 351: 2SC634A (2SC632A)
Q401 - 403 } : 2SC403C
Q407 }
Q406: 2SC634A (2SC403C)

D602: EQB01-12 (EQA01-12)
D807: EQB01-16 (EQA01-16)



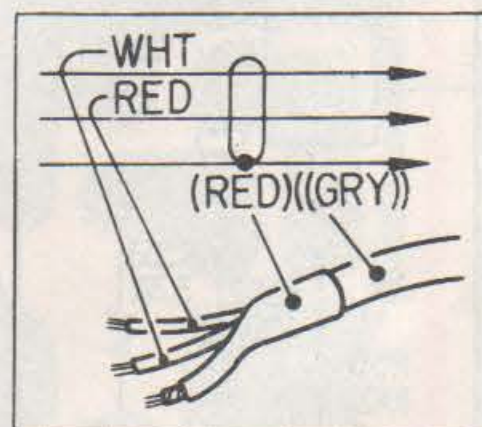
Q502, 552: 2SA705

D701, 751: SV04F



Note:

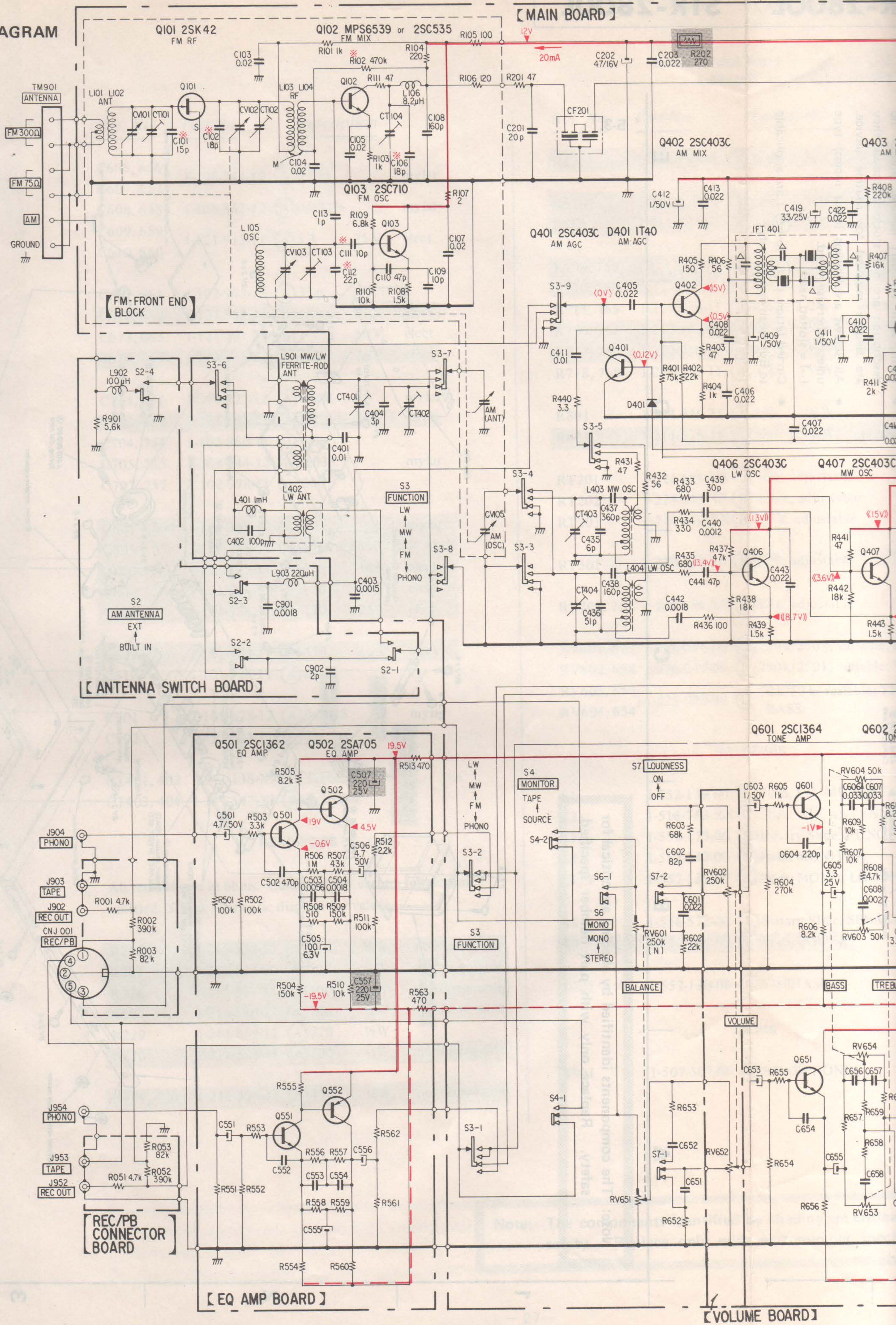
- Color code of sleeving over the end of the jacket.

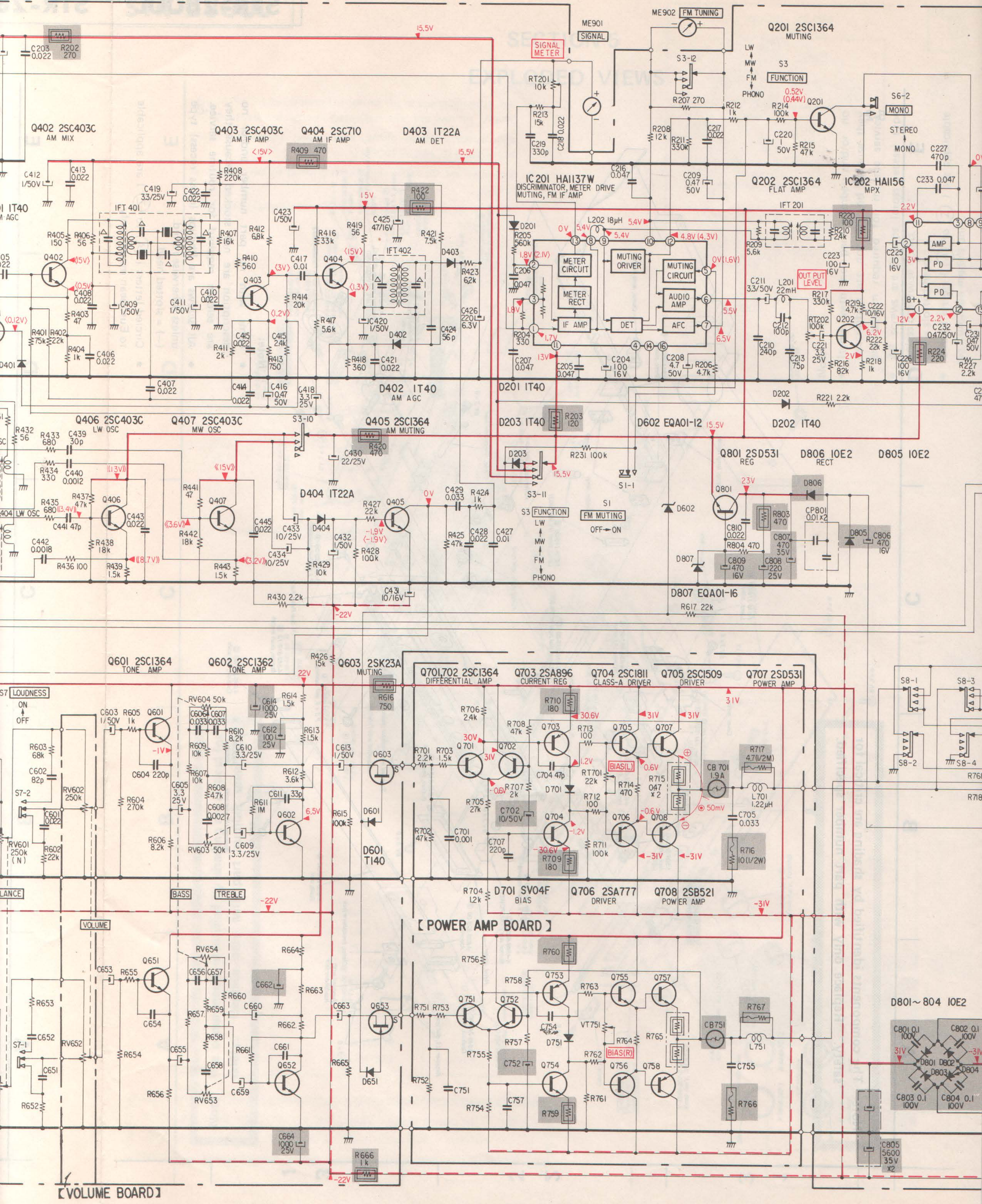


- [Red line] : B+ pattern
- [Blue line] : B- pattern
- [Red dashed line] : signal path { [Red dashed line] : L-CH, [Blue dashed line] : R-CH
- [Red triangle] : nonflammable resistor.
- Readings are taken under detuned conditions with a VOM (20 kΩ/V).

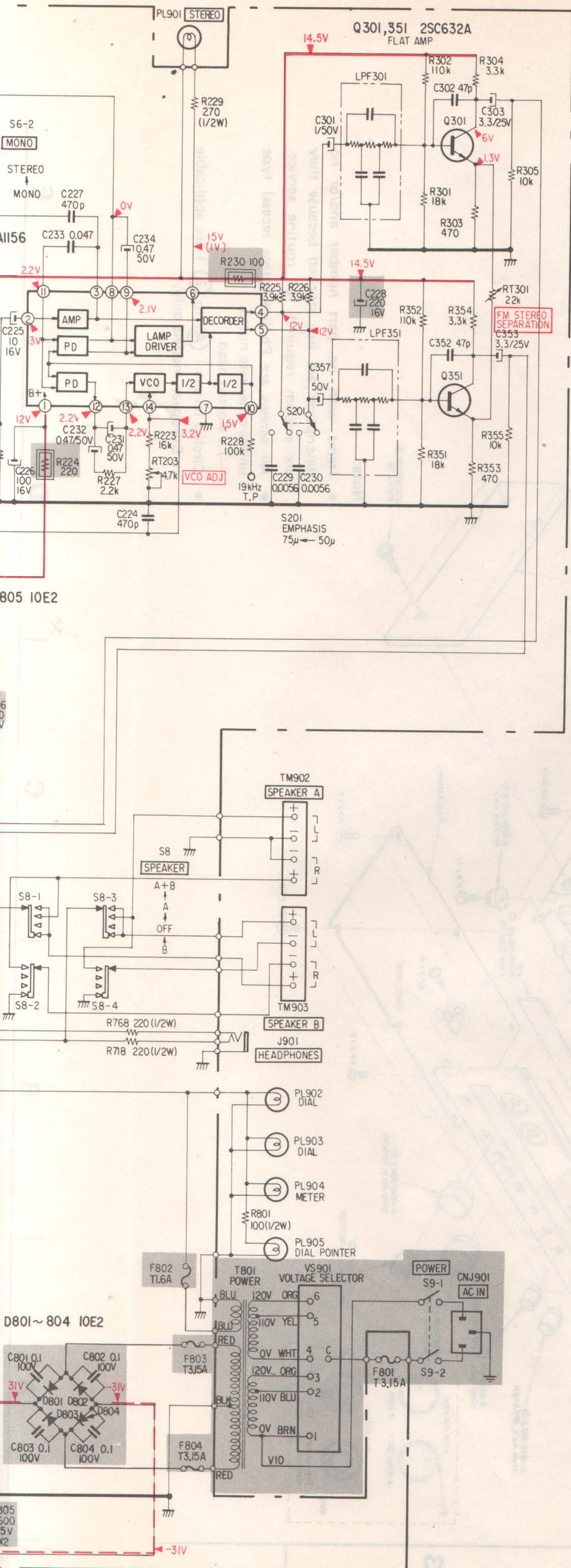
- () : FM MUTING (S1) ... ON <> : MW
- [] : FM STEREO (()) : LW
- < > : AM (MW, LW)

4-4. SCHEMATIC DIAGRAM



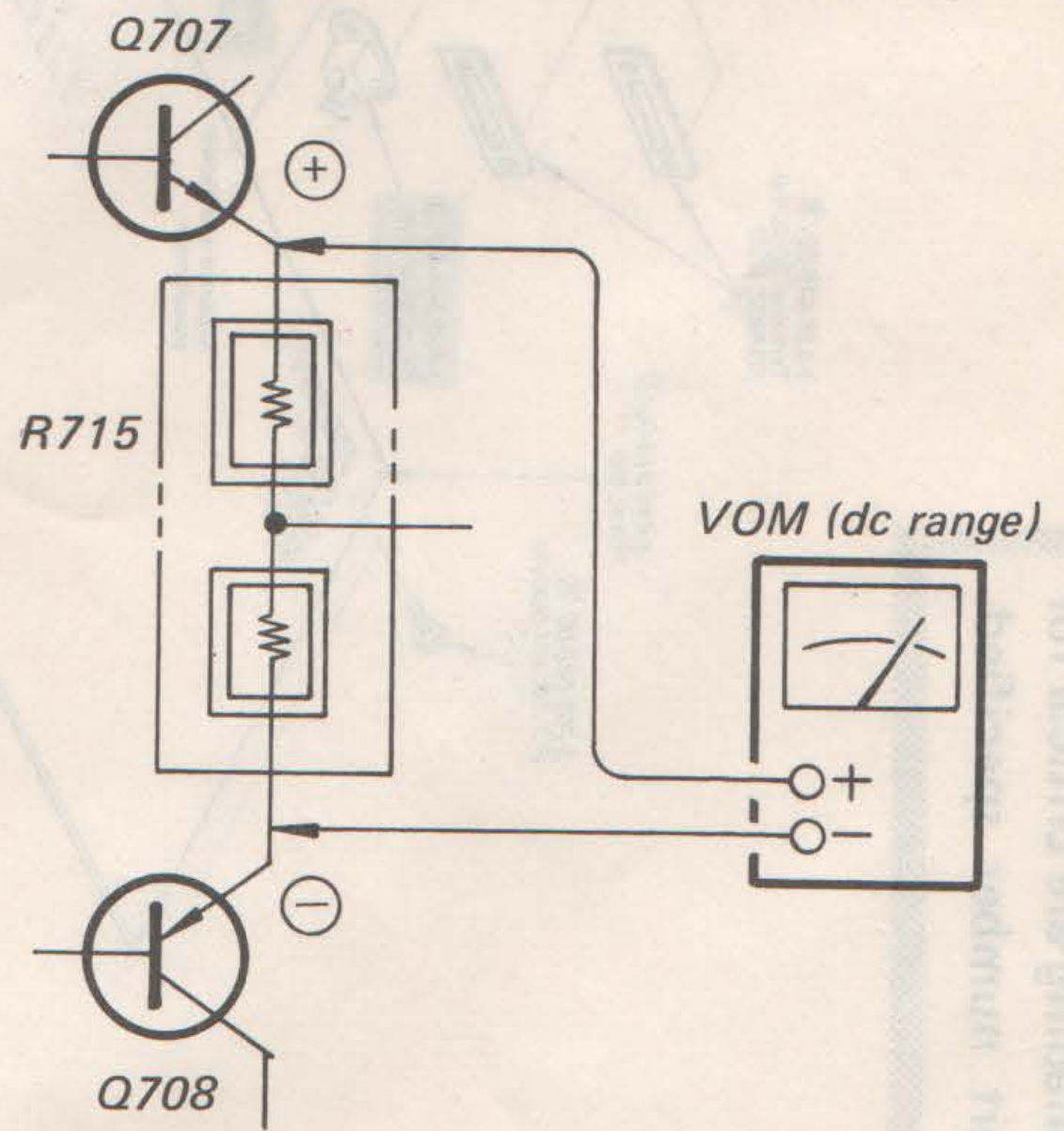


STR-2800L



Note:

- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$. 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000 \Omega$, $\text{M}\Omega = 1000 \text{k}\Omega$
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- : chassis ground.
- : nonflammable resistor.
- : fusible resistor.
- * : selected to yield optimum performance.
- \triangle : internal component.
- : direct connection to points marked on the chassis.
- : panel designation.
- : adjustment for repair.
- Readings are taken under detuned conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- () : FM MUTING (S1) ... ON \ll \gg : MW
- [] : FM STEREO (()) : LW
- < > : AM (MW, LW)
- : B+ bus.
- : B- bus.
- Components for right channel have the same values as for left channel.
- : measured as shown below.



Switch:

Ref. No.	Switch	Position
S1	FM MUTING	OFF
S2	AM ANTENNA	BUILT IN
S3	FUNCTION	PHONO
S4	MONITOR	SOURCE
S6	MONO	STEREO
S7	LOUDNESS	OFF
S8	SPEAKER	B
S9	POWER	OFF
S201	EMPHASIS	50 μ

Note: The components identified by shading are critical for safety. Replace only with part number specified.