



TOSHIBA TRANSISTOR RADIO SERVICE DATA

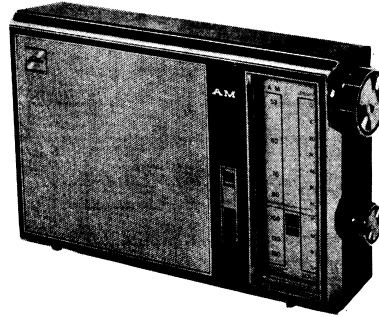
SPECIFICATIONS

FREQUENCY RANGE: AM 530~1600 KC
 INTERMEDIATE FREQUENCY: AM 455 KC
 POWER SOURCE: UM-2 (C)² × 3...4.5V
 POWER OUTPUT: 500 mW (max.)
 SPEAKER: 3" P.M.D. Type
 ANTENNA: Ferrite Core Antenna
 JACKS: Earphone Jack, External power Jack

TRANSISTORS & DIODE:

TR 1	2 SA 472	Mixer
TR 2	2 SA 49	IF Amplifier
TR 3	2 SA 53	IF Amplifier
TR 4	2 SA 472	Oscillator
TR 5	2 SB 54	AF Amplifier
TR 6	2 SB 54	AF Amplifier
TR 7, TR 8, TR 9, TR 10	2SB56 × 4	Power Amplifier
DIODE	1 N 60 × 1	Detector

DIMENSIONS: W...7⁵/₈" H...5" D...1²⁵/₃₂"
 WEIGHT: 2.5 Lbs (With Batteries)
 ACCESSORIES: Carrying Case
 Dynamic Type Earphone
 Earphone Case

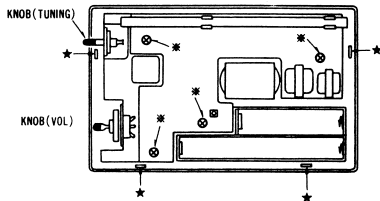


CHASSIS REMOVAL

1. Remove the knobs (TUNE, VOL).
2. Open the back lid by removing four screws marked (★) shown in the diagram.
3. Remove four screws marked (✳) shown in the diagram. Carefully pull the chassis from the cabinet.

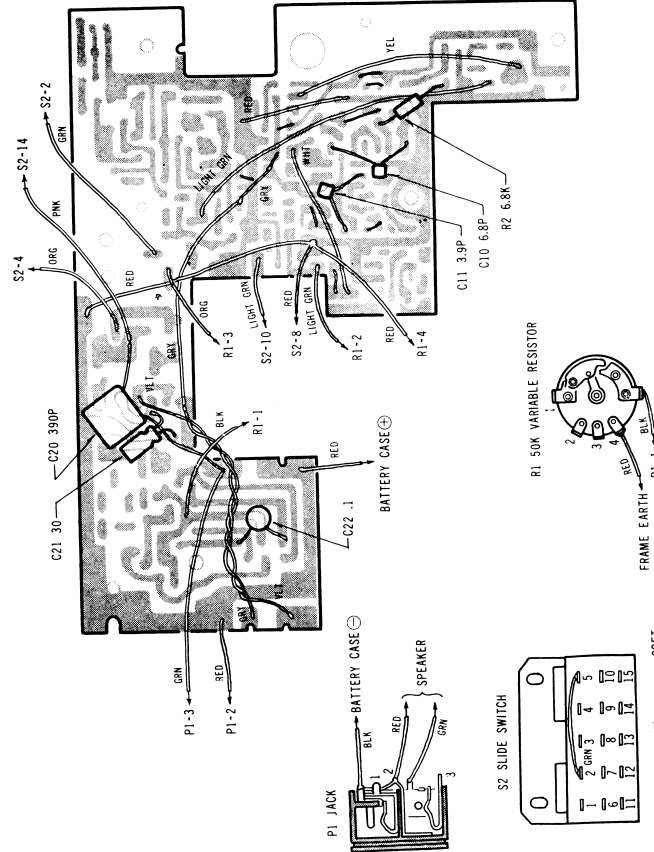
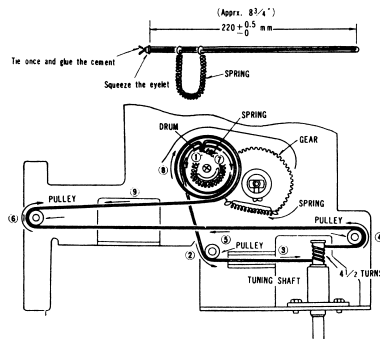
Remarks:

When separating the chassis, do not loosen any screw except the ones painted with white enamel.

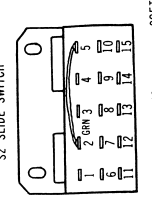


DIAL CORD STRINGING

1. Set the variable capacitor to the minimum capacitance.
2. Set the cord as number in the diagram.



BOTTOM VIEW OF WIRE CONNECTION



ALIGNMENT PROCEDURE

The following equipment is required for alignment :

1. Signal generator with a frequency range of at least from 455 KC to 1670 KC, AM.
2. Vacuum tube volt meter.
3. Oscilloscope with a wide range amplifier of approximately 100 KC.
4. Test Loop, a coil of any size wire, one turn or more.
5. For alignment points, see schematic.

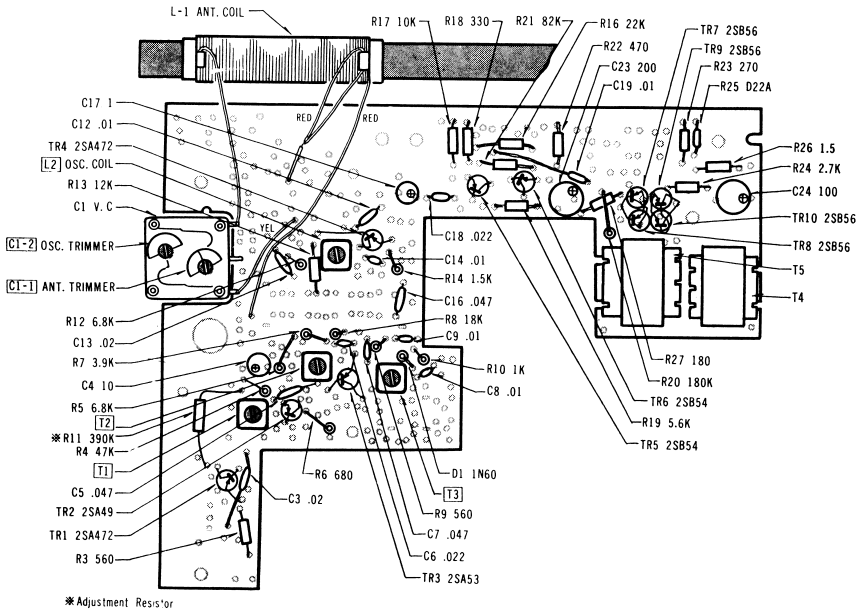
NOTES:

During alignment keep the signal generator outputs at the lowest level that will maintain a useable output from the set.

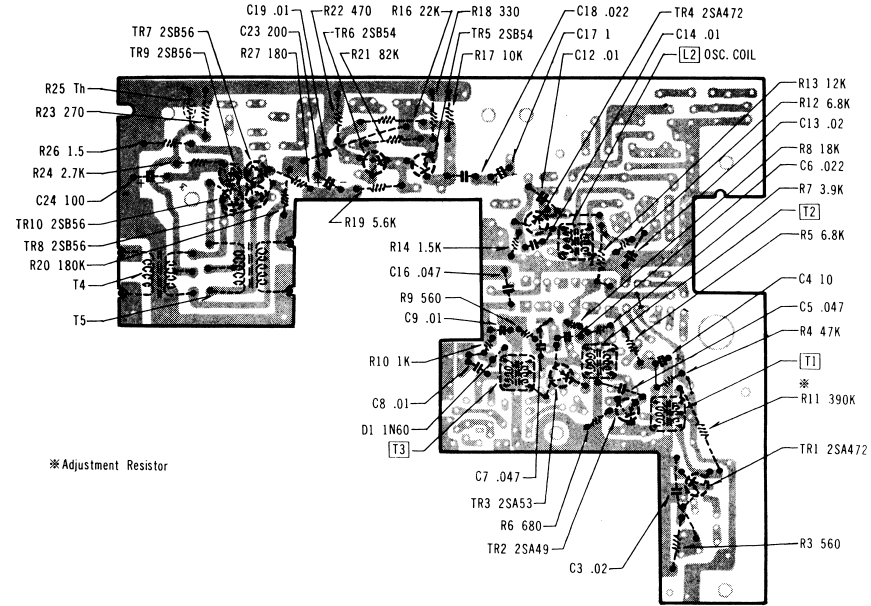
Ground connection of signal generator.....chassis ground

Generator modulation (AM)30%, 400%

Step	Generator connection	Generator frequency	Band setting	Position of tuning gang	Meter or oscilloscope connection	Adjustment	Remarks	
AM ALIGNMENT								
1.	Test Loop	455 KC	AM	Tuning gang fully closed	Across voice coil	T 1, T 2, T 3	Adjust for maximum	
2.	Same	520 KC	Same	Same	Same	L 2	Same	
3.	Same	1670 KC	Same	Tuning gang fully open	Same	C 1-2	Same	
4.	Repeat Step 2 and 3							
5.	Same	600 KC	Same	600 KC	Same	L 1	Same	
6.	Same	1400 KC	Same	1400 KC	Same	C 1-1	Same	
7.	Repeat Step 5 and 6							



TOP VIEW



BOTTOM VIEW

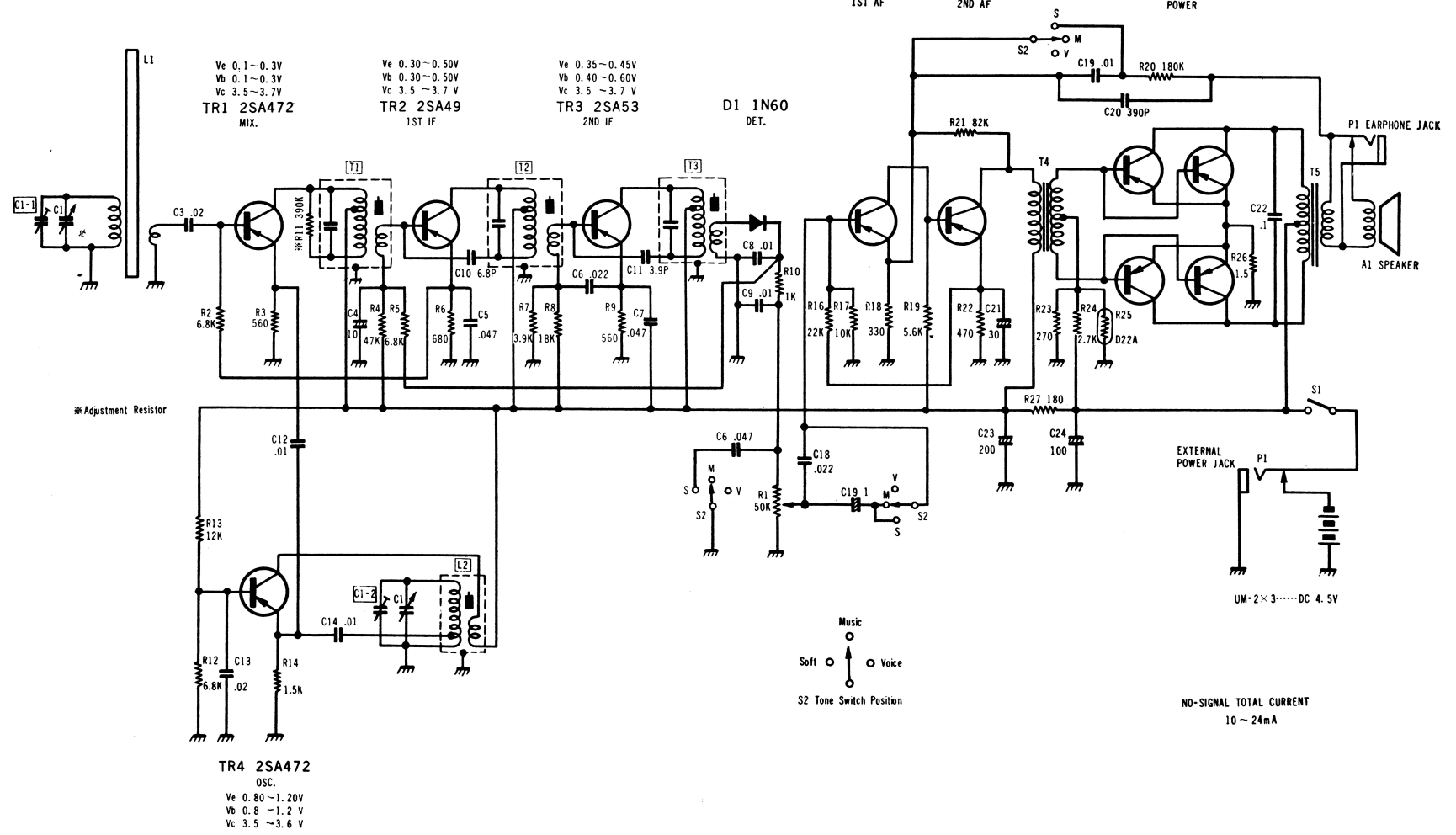
TOSHIBA MODEL 10M-860

T28.

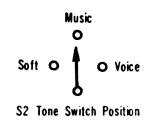
Ve 0.10~0.20V	Ve 0.70~1.00V	Ve 0.001~0.01V
Vb 0.10~0.30V	Vb 0.8~1.1V	Vb 0.1~0.2V
Vc 0.7~1.2V	Vc 3.0~3.4V	Vc 4.4~4.6V
TR5 2SB54	TR6 2SB54	TR7, 8, 9, 10 2SB56×4
1ST AF	2ND AF	POWER

Ve 0.1~0.3V	Ve 0.30~0.50V	Ve 0.35~0.45V
Vb 0.1~0.3V	Vb 0.30~0.50V	Vb 0.40~0.60V
Vc 3.5~3.7V	Vc 3.5~3.7V	Vc 3.5~3.7V
TR1 2SA472	TR2 2SA49	TR3 2SA53
MIX.	1ST IF	2ND IF

D1 1N60
DET.



* Adjustment Resistor



NO-SIGNAL TOTAL CURRENT
10 ~ 24mA

UM-2×3.....DC 4.5V