

FM, RF ALIGNMENT

1.	FM signal generator to ant. directly, Fig. D	87 MC	FM	Tuning Gang fully closed	Across Voice Coil	L 5 FM Osc. Coil	Adjust for maximum
2.	Same	108.5 MC	Same	Tuning Gang fully opened	Same	C 4-b FM Osc. Trimmer	Same
3.	Repeat Step 1 and 2						
4.	Same	88 MC	Same	88 MC	Same	L 3 FM RF Coil	Same
5.	Same	108 MC	Same	108 MC	Same	C 1-a FM RF Trimmer	Same
6.	Repeat Step 4 and 5						

SWEEP RESPONSE CURVE



FIG. A

"S" CURVE

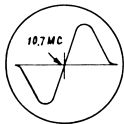


FIG. B

IF SWEEP TEST

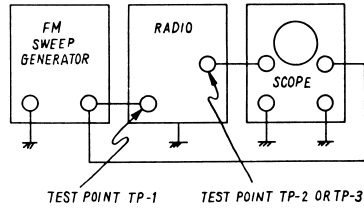


FIG. C

GENERATOR COUPLING HOOK-UP

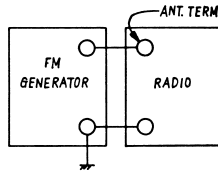
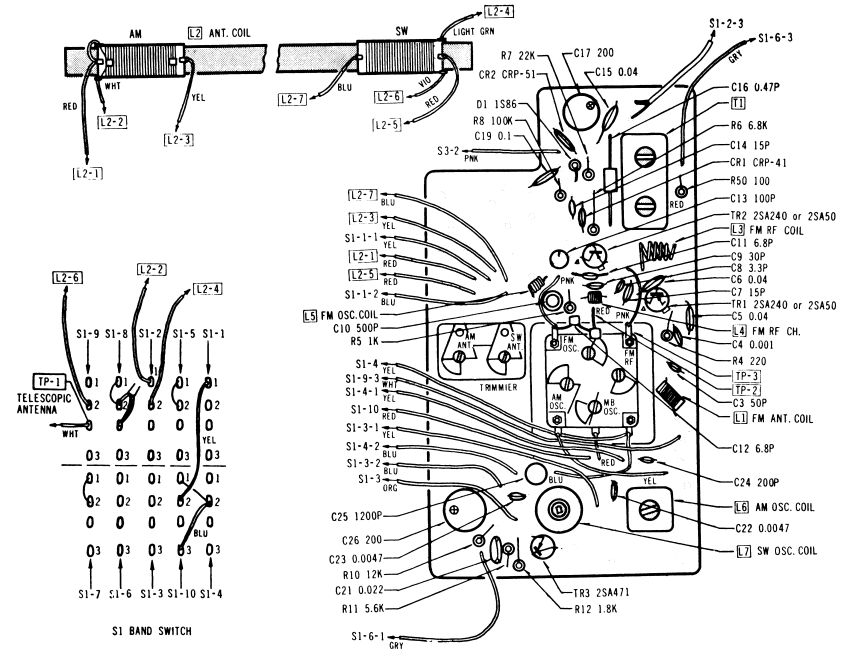
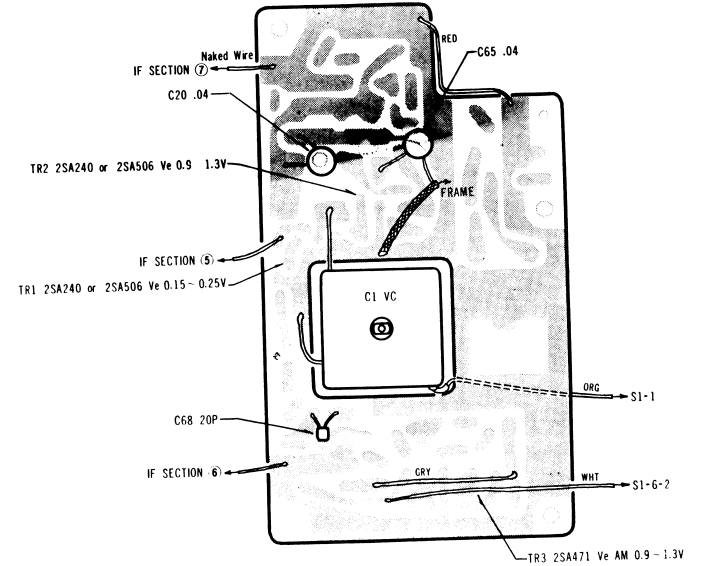


FIG. D

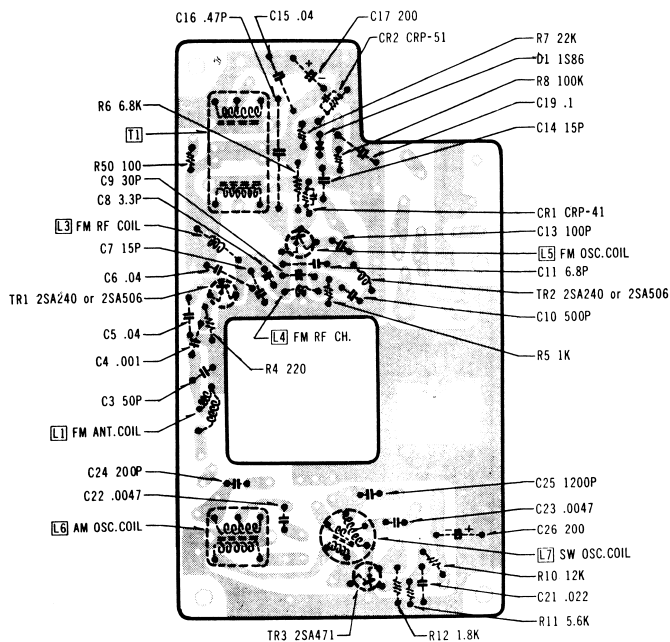
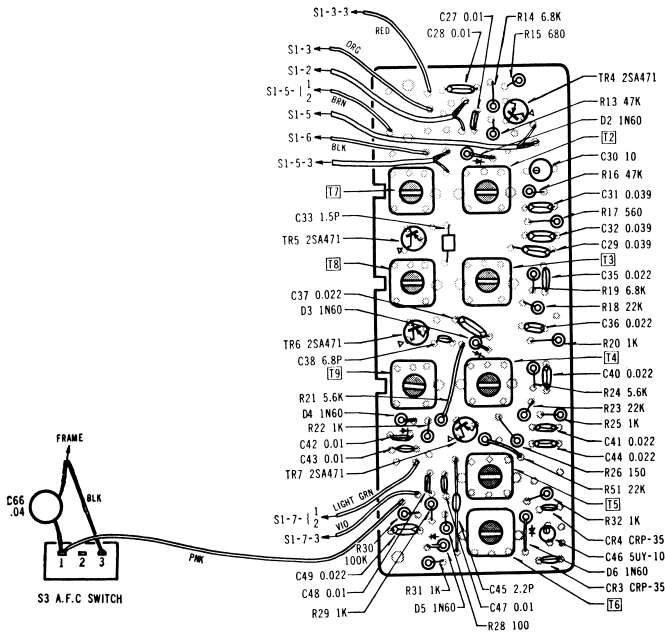


TOP VIEW OF TUNER SECTION

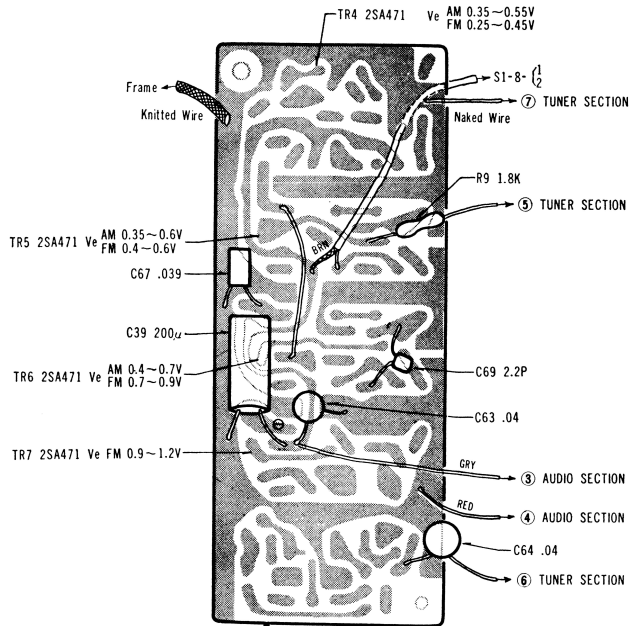


BOTTOM VIEW OF TUNER SECTION

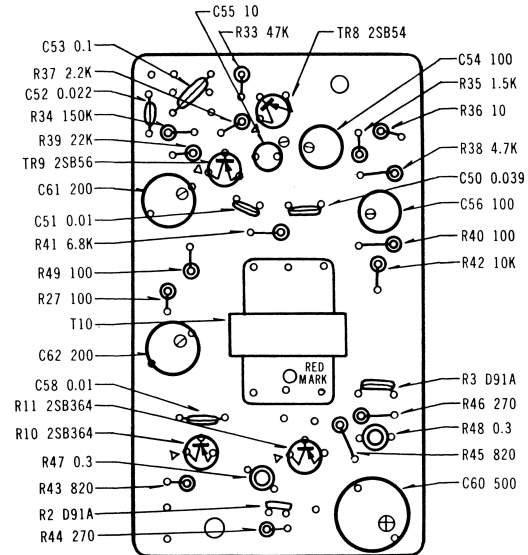
T30. TOSHIBA MODEL 11L-855F



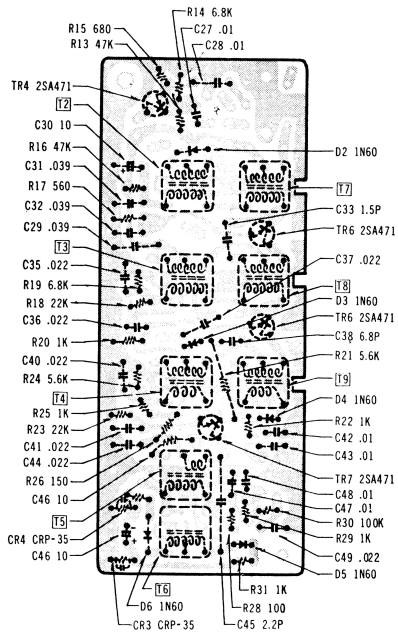
BOTTOM VIEW OF TUNER SECTION



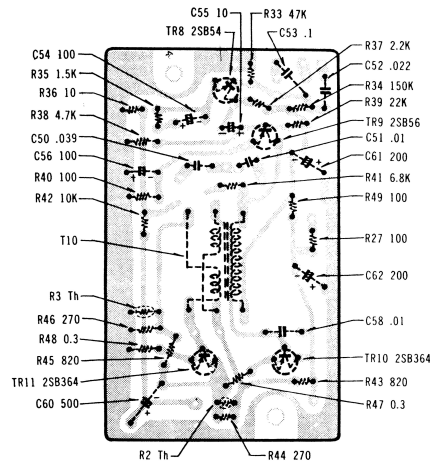
BOTTOM VIEW OF IF SECTION



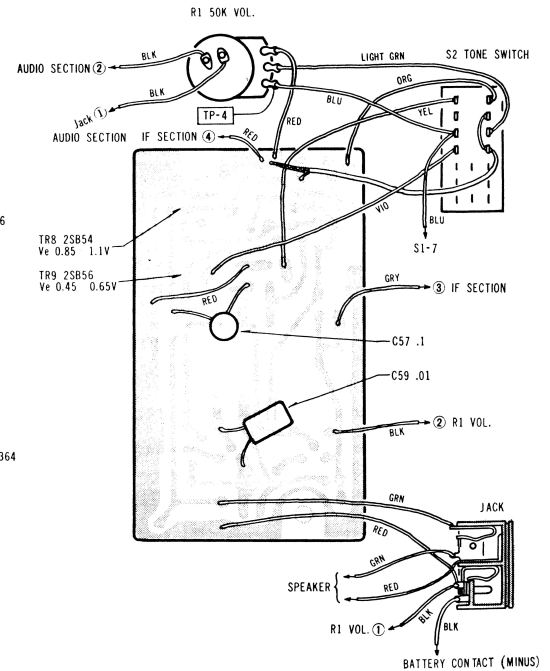
TOP VIEW OF AUDIO SECTION



BOTTOM VIEW OF IF SECTION

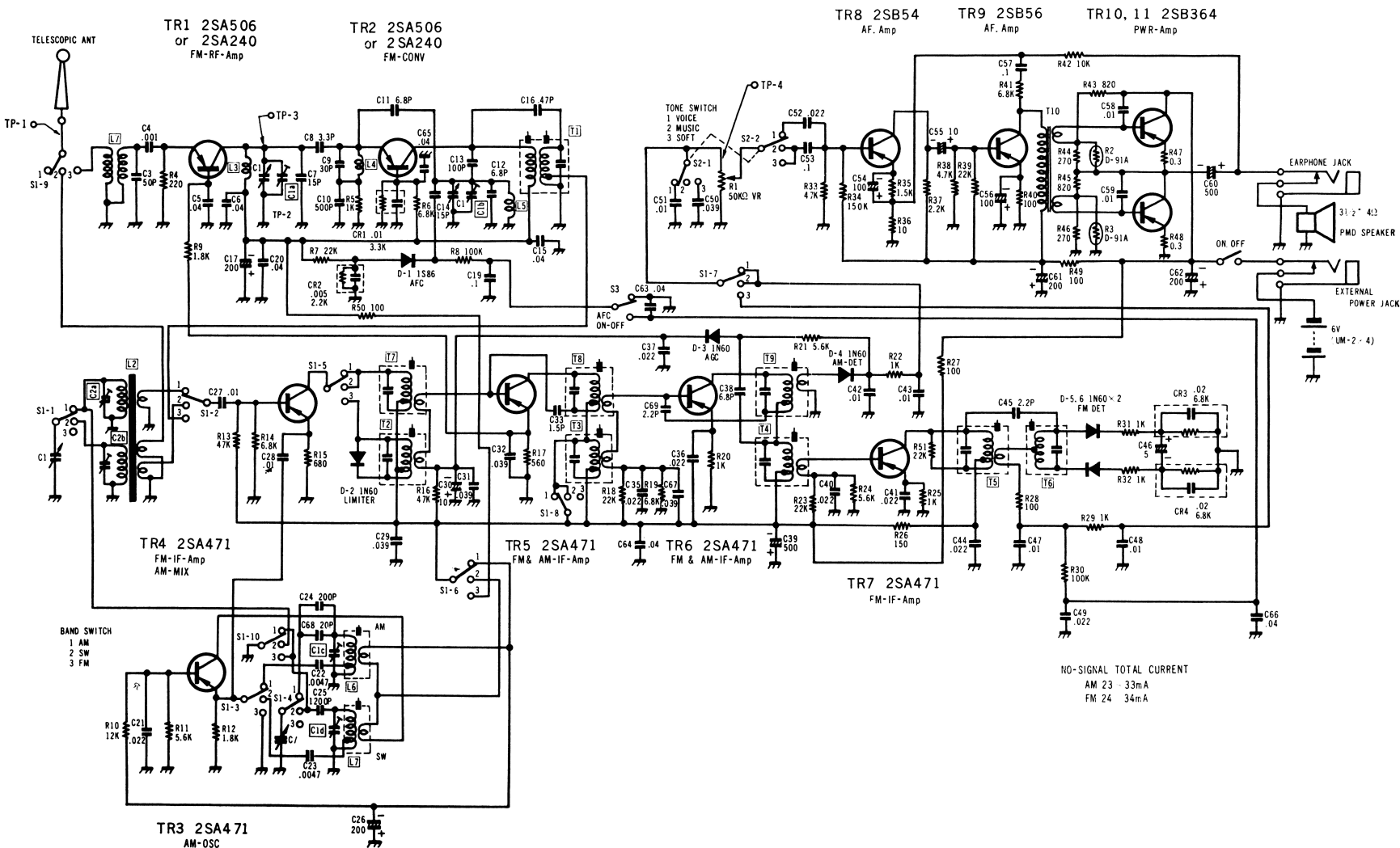


BOTTOM VIEW OF AUDIO SECTION



TOSHIBA MODEL 11L-855F

T30.





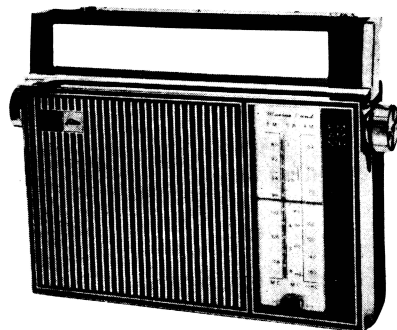
TOSHIBA TRANSISTOR RADIO SERVICE DATA

TOSHIBA MODEL 11L-855F

T30.

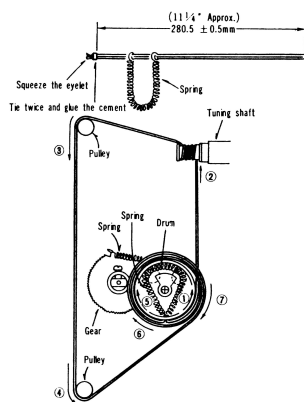
SPECIFICATIONS

FREQUENCY RANGE :	AM 530~1650 KC SW 2~6 MC FM 87.5~108 MC
INTERMEDIATE FREQUENCY :	AM 455 KC FM 10.7 MC
POWER SOURCE :	UM-2A X 4.....6V
POWER OUTPUT :	1000 mW (max.)
SPEAKER :	3½" P.M.D. Type
ANTENNAS :	Telescopic Rod Antenna for SW & FM Ferrite Core Antenna for AM Earphone & External PWR Jack
JACKS :	
TRANSISTORS & DIODES :	
TR 1	2SA506 or 2SA240 FM, RF Amplifier
TR 2	2SA506 or 2SA240 FM Converter
TR 3	2SA 471 AM Oscillator
TR 4	2SA 471 AM MIX, FM, IF Amplifier
TR 5	2SA 471 AM and FM, IF Amplifier
TR 6	2SA 471 AM and FM, IF Amplifier
TR 7	2SA 471 FM, IF Amplifier
TR 8	2SB 54 AF Amplifier
TR 9	2SB 56 AF Amplifier
TR 10	2SB 364 Power Amplifier
TR 11	2SB 364 Power Amplifier
D 1	1S 86 A.F.G.
D 2	1N 60 Limiter
D 3	1N 60 AGC
D 4	1N 60 AM Detector
D 5	1N 60 FM Detector
D 6	1N 60 FM Detector
DIMENSIONS :	W...9¼", H...7½", D...2⅜"
WEIGHT :	3.5 Lbs (With Batteries)
ACCESSORY :	Earphone



DIAL CORD STRINGING

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



CHASSIS REMOVAL

1. Remove the two knobs (Tone Switch and Band Switch)
 2. Remove the four screws marked (*) and separate the back lid shown in the Fig. 1.
 3. Remove the five screws and a stud marked (*) shown in the Fig. 2.
- Carefully pull the chassis from the cabinet.
- Remarks :
When separating the chassis, do not loosen any screw except the ones painted with white enamel.

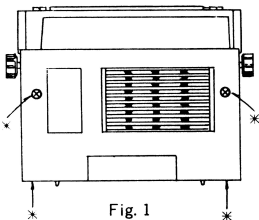


Fig. 1

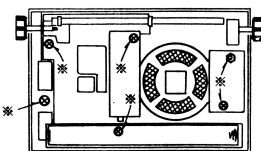


Fig. 2

ALIGNMENT PROCEDURE

The following equipment is required for alignment:

1. Signal generator with a frequency range of at least from 455 KC to 6.5 MC, AM.
2. Signal generator with a frequency range of at least from 10.7 MC to 109 MC, FM.
3. Vacuum tube volt meter.
4. Sweep signal generator with a sweep range of at least 455 KC and center frequency of 10.7 MC marker (Ext. marker may be used.)
5. Oscilloscope with a wide range amplifier of approximately 100 KC.
6. Test loop, a coil of any size wire, one turn or more.
7. For alignment points, see schematic.

NOTES :

During alignment keep the signal generator outputs at the lowest level that will maintain a 100% modulation.
 Ground connection of signal generator 100%
 Generator modulation (FM) (other than IF alignment) 100%
 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 7, T 8, T 9	Adjust for maximum
2.	Same	525 KC	Same	Tuning gang fully closed	Same	L 6 AM Osc. Coil	Same
3.	Same	1660 KC	Same	Tuning Gang fully opened	Same	C 1-c AM Osc. Trimmer	Same
4.	Repeat Step 2 and 3						
5.	Same	600 KC	Same	600 KC	Same	L 2 AM Ant. Coil	Same
6.	Same	1400 KC	Same	1400 KC	Same	C 2-a AM Ant. Trimmer	Same
7.	Repeat Step 5 and 6						

SW 1 ALIGNMENT

1.	Test Loop	1.95 MC	SW 1	Tuning Gang fully closed	Across Voice Coil	L 7 SW Osc. Coil	Adjust for maximum
2.	Same	6.1 MC	Same	Tuning Gang fully opened	Same	C 1-d SW Osc. Trimmer	Same
3.	Repeat step 1 and 2						
4.	Same	2.5 MC	Same	2.5 MC	Same	L 2 SW Ant. Coil	Same
5.	Same	5.5 MC	Same	5.5 MC	Same	C 2-b SW Ant. Trimmer	Same
6.	Repeat step 4 and 5						

FM, RF ALIGNMENT

1.	Sweep generator to test point TP-1 thru .05µF, Fig. C	10.7 MC center freq. sweep with 10.7 MC Marker	FM	Tuning gang fully open	Set scope for external sweep point TP-2, Fig. C	T 1, T 2, T 3, T 4, T 5	Adjust for scope pattern illustrated below with 10.7 MC marker in center, Fig. A
2.	Same	Same	Same	Same	Set scope for external sweep point TP-3 directly	T 6	Adjust for ratio detector "S" curve as illustrated below Fig. B