T30. TOSHIBA MODEL 11L-855F

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

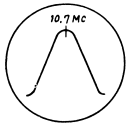


FIG. A

"S" CURVE

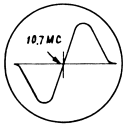
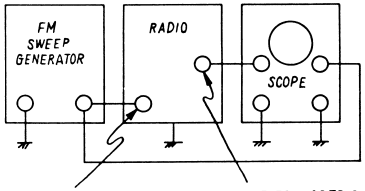


FIG. B

IF SWEEP TEST



TEST POINT TP-1 TEST POINT TP-2 OR TP-3

FIG. C

GENERATOR COUPLING HOOK-UP

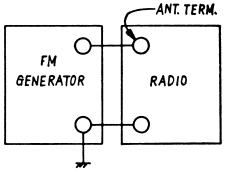
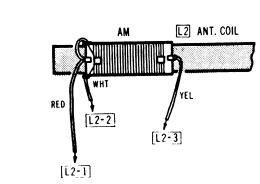
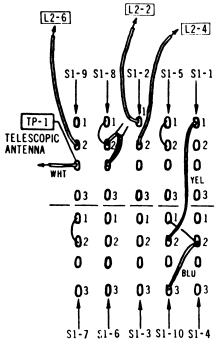
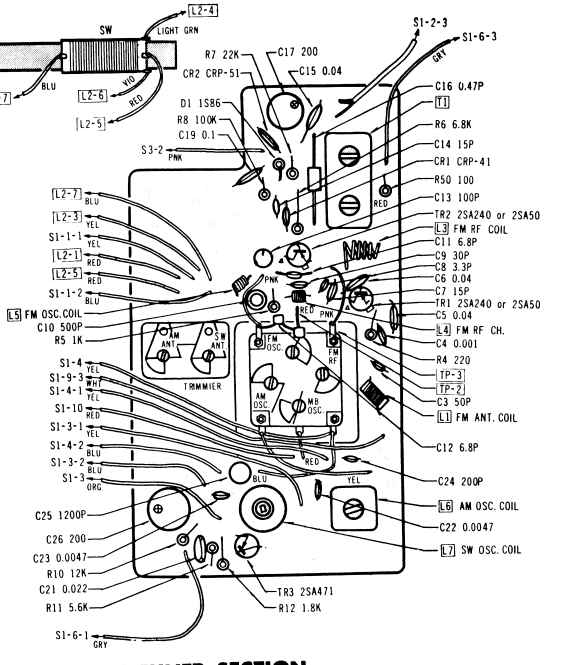


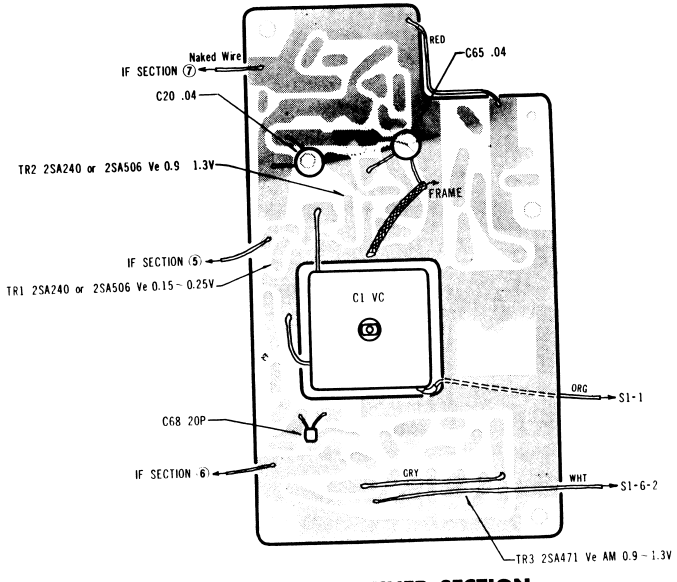
FIG. D





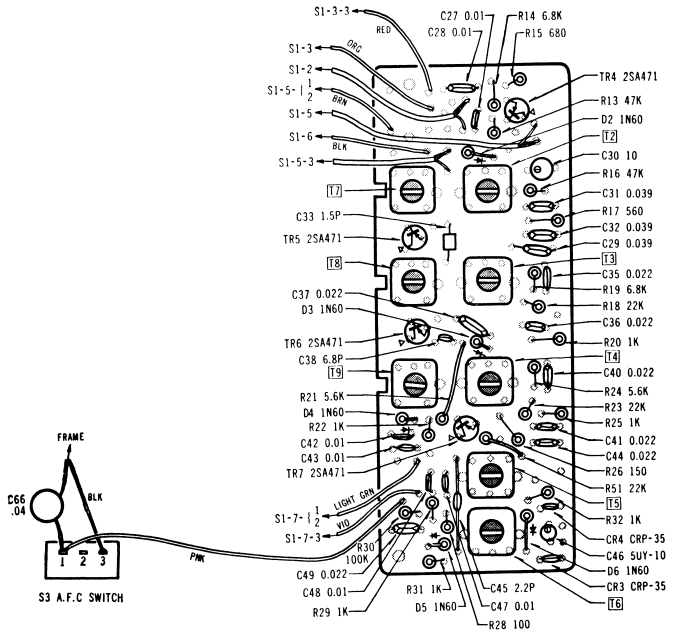


TOP VIEW OF TUNER SECTION

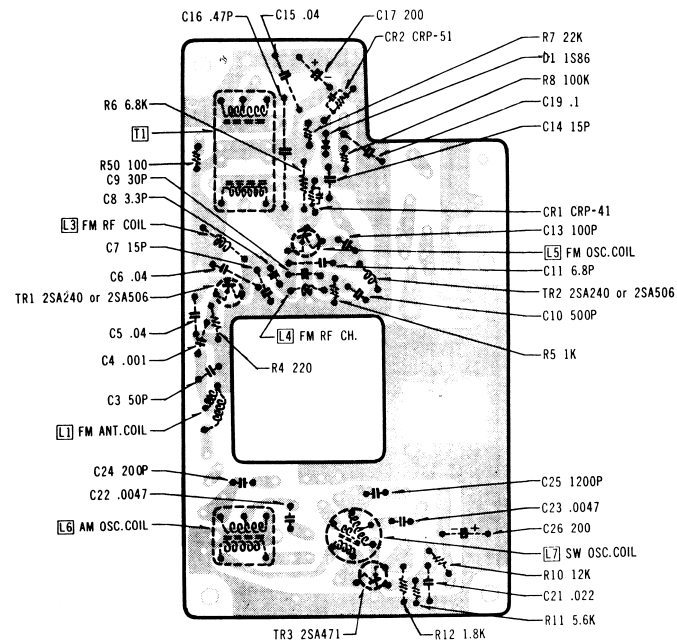


BOTTOM VIEW OF TUNER SECTION

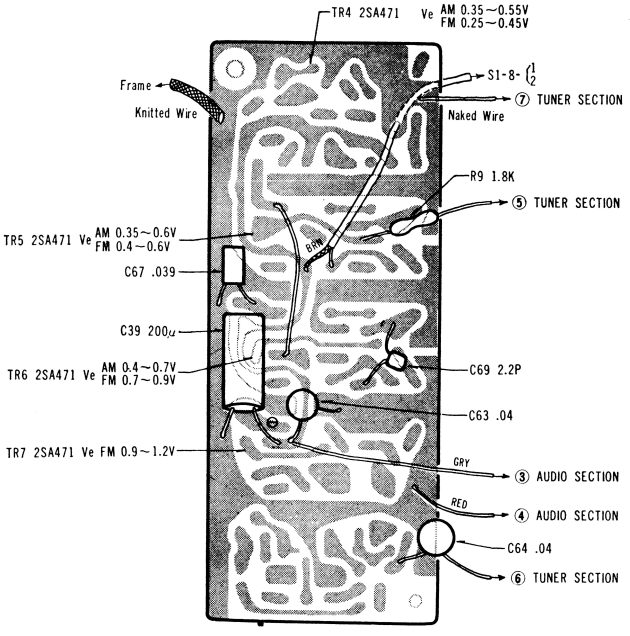
T30. TOSHIBA MODEL 11L-855F



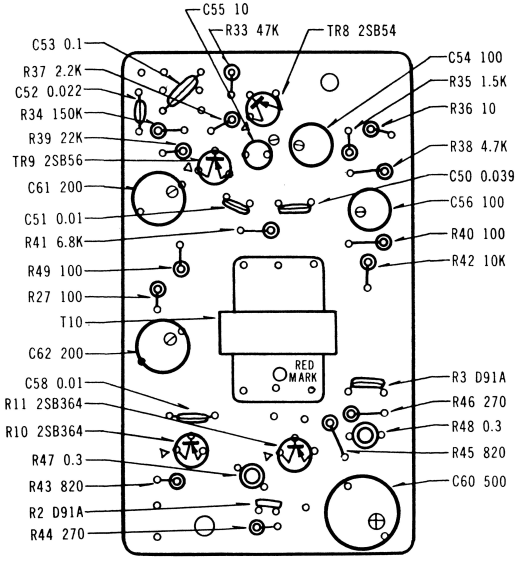
TOP VIEW OF IF SECTION



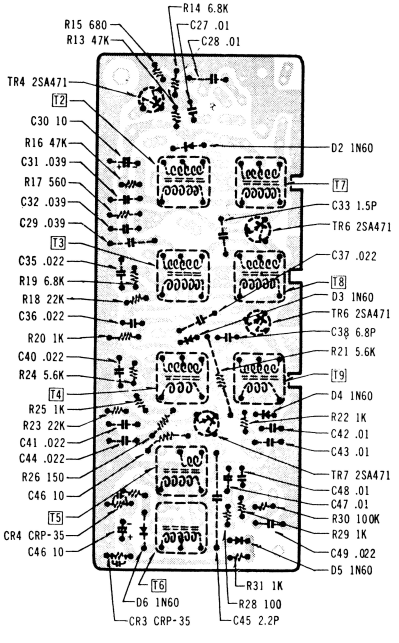
BOTTOM VIEW OF TUNER SECTION



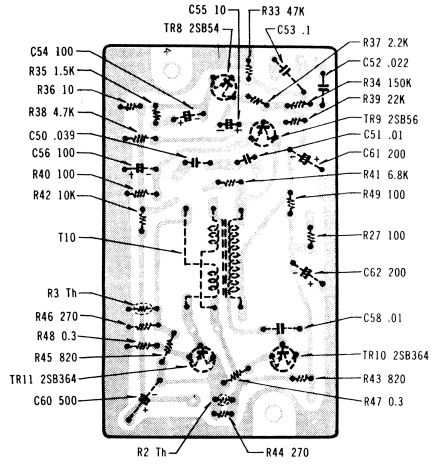
BOTTOM VIEW OF IF SECTION

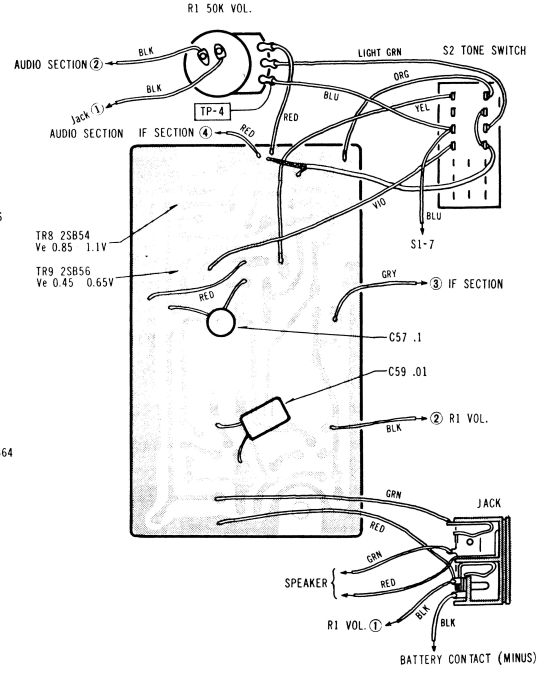


TOP VIEW OF AUDIO SECTION



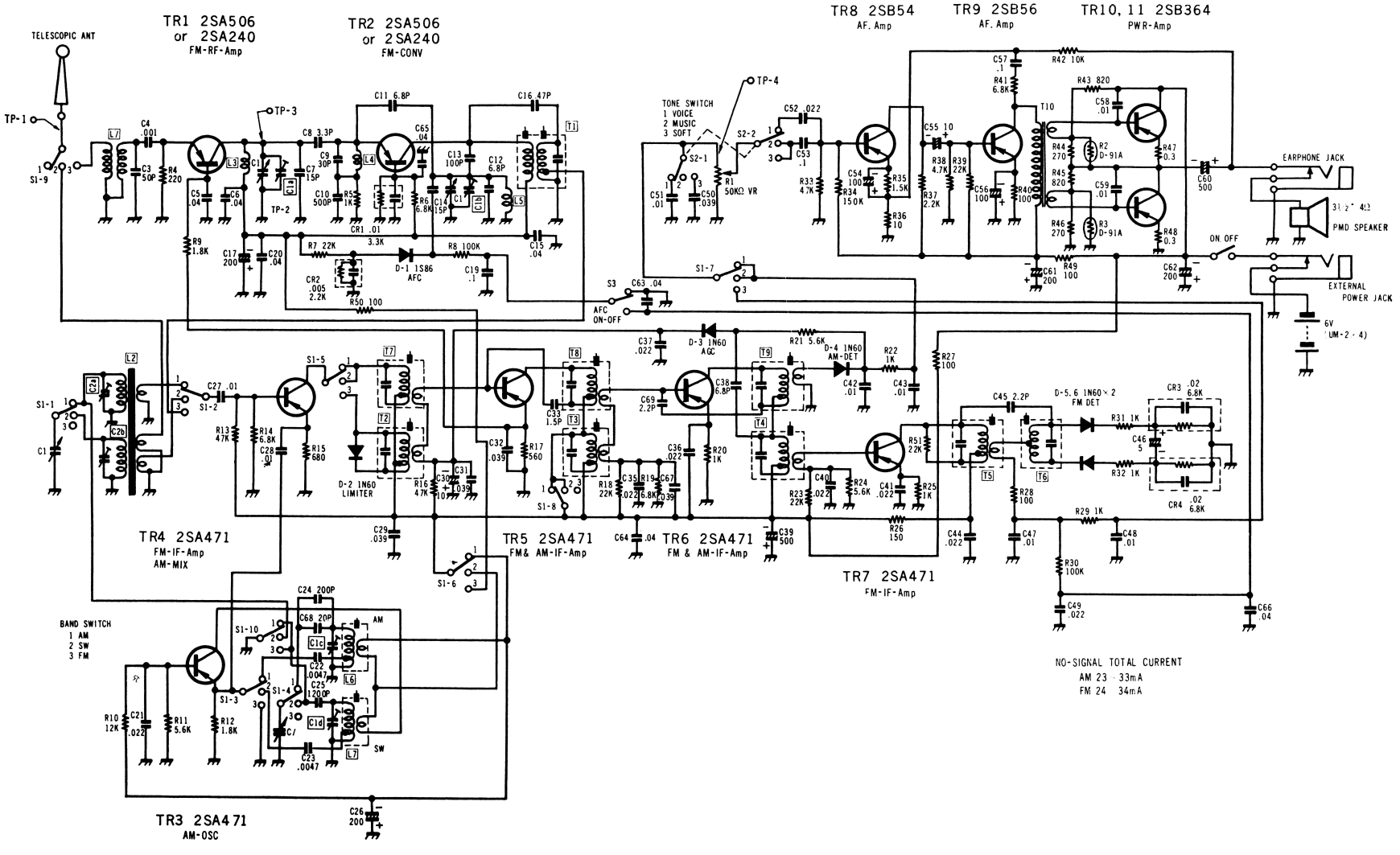
BOTTOM VIEW OF IF SECTION





BOTTOM VIEW OF AUDIO SECTION

TOSHIBA MODEL 11L-855F



TOSHIBA TRANSISTOR RADIO
SERVICE DATA

SPECIFICATIONS

FREGUENCY 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×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
JACKS :	Earphone & External PWR Jack

TRANSISTORS & DIODES :

TR 1	2SA506 or 2SA240	FM, RF Amplifier
TR 2	2SA506 or 2SA240	FM Converter
TR 3	2 SA 471	AM Oscillator
TR 4	2 SA 471	AM MIX, FM, IF Amplifier
TR 5	2 SA 471	AM and FM, IF Amplifier
TR 6	2 SA 471	AM and FM, IF Amplifier
TR 7	2 SA 471	FM, IF Amplifier
TR 8	2 SB 54	AF Amplifier
TR 9	2 SB 56	AF Amplifier
TR 10	2 SB 364	Power Amplifier
TR 11	2 SB 364	Power Amplifier
D 1	1 S 86	A.F.G.
D 2	1 N 60	Limiter
D 3	1 N 60	AGC
D 4	1 N 60	AM Detector
D 5	1 N 60	FM Detector
D 6	1 N 60	FM Detector

DIMENSIONS :	W…9¼″, H…7½″, D…2⅜″
WEIGHT :	3.5 Lbs (With Batteries)
ACCESSORY :	Earphone

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.

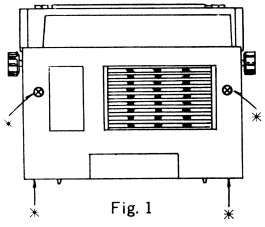


Fig. 1

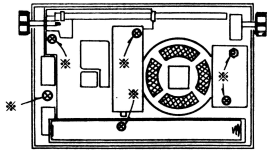
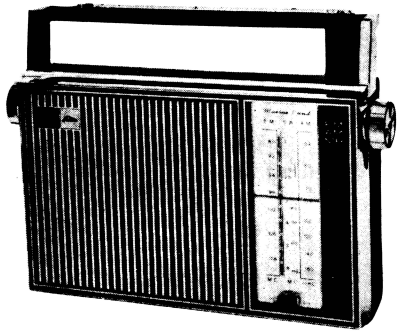
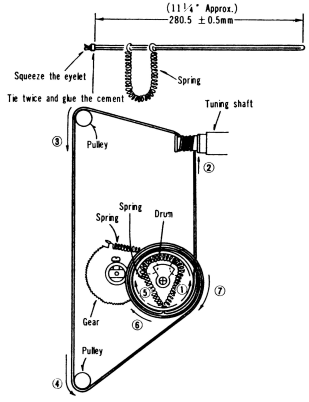


Fig. 2



DIAL CORD STRINGING

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



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 [illegible]

Ground connection of signal generator ……[illegible]

Generator modulation (FM) (other than IF. alignment) ……30%, [illegible]

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 bellow with 10.7MC 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