

CONDITIONS FOR VOLTAGE AND RESISTANCE ANALYSIS

- Voltage readings are d.c. volts, resistance readings are ohms, with values measured from socket pin to B neutral.
 Voltage readings measured for 117 volt a.c. line operation. All measurements made with voltohmyst, or equivalent.
- 3. No signal applied and band switch in BC position, for voltage and resistance measurements.
- 4. Nominal tolerance on component values makes possible a variation of ± 15% in readings.

3 TURNS

TUNING

BAND

5. Resistance measurements taken with set turned "On" and line plug removed from wall socket (do not insert in chassis transfer switch SW-3). K = Kilohms, Meg. = Megohms.

EMERSON RADIO AND PHONOGRAPH CORPORATION

Model 746B, Chassis 120177-B

ALIGNMENT PROCEDURE

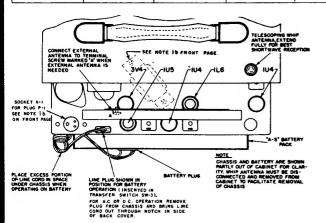
- 1. Volume control should be set at maximum position. The output of the signal generator should be no higher than necessary to obtain an output reading. Attenuate the signal input as alignment proceeds.
- 2. Use isolation transformer if available; otherwise when connecting low side directly to B neutral use a .1 mfd. condenser in series with low side of signal generator.
- 3. Refer to figure 3 for location of alignment trimmers.
- 4. For SW alignment of the receiver, maintain the telescoping antenna closed.

	SIGNAL GENERATOR	Band Switch	Dial		Procedure		
Step	Coupling	Frequency	Position	Setting	Adjust	Procedure	
1	High side thru 0.1 mfd. to grid (Pin No.6) V-2, 1L6. Low side to B neutral (See note 2 above).	455 KC	вс	Tuning Cond Fully open	T-2, T-1 Top and Bottom	Peak for maximum output.	
2	Form loop of several turns and radiate signal into receiver.	1640 KC	ВС	Ħ	C -24 (BC OSC,)	* "	
3	n	1420 KC	ВС	Tune for maximum output	C-4 (BC Ant.) C-13 BC (RF)	. п	
4	n	530KC	ВС	Tuning Cond. Fully Closed	C-22 (BC pad- der L-4 (BC. RF)	* H	
	Rechec	k steps 2 to	4 and retu	une if necessa	ry		
5	High side thru a 200 MMF to ex- ternal antenna terminal, low side to chassis.	6.5 MC.	SW-1	Tuning Cond Fully open	C-25 OSC.	Peak for maximum output	
6	n	5.5 MC	S ₩- 1	Tune for max. output	C-5 (Antenna) C-14,(RF)	* 11	
7	Ħ	22.0MC	SW-2	Tuning Cond Fully open	C-26 OSC.	* "	
8	п	21.5 MC	S ₩- 2	Tune for max. output	C-6 (Antenna) C-15,(RF)	Rock dial each side of 21.5 MC. while adjusting C-6 and then C-15 for maximum response	

^{*} Note underside chassis cover must be secured in place when performing steps 2 to 8, otherwise tuner tracking will shift.

RESISTANCE READINGS FOR CHASSIS 120177-B

SYMBOL	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	P1N 7
V-1	1 U4	25 ~	4 K	4 K	2 MEG.	N.C.	3 MEG.	40 ~
V-2	1L6	14 ~	4 K	4 K	210 K	50 K	3.5 MEG.	25 ~
V-3	1U4	40 ~	5 K	5 K	N.C.	40 ^	3 MEG.	55 ~
V-4	1U5	0~	900 K	4.2 MEG.	900 K	4 K	10 MEG.	14 ~
V-5	3 V4	55 ~	4 K	4 K	0	65 ~	2.2 MEG.	75 ~
v- 6	Selinium Rectifier							



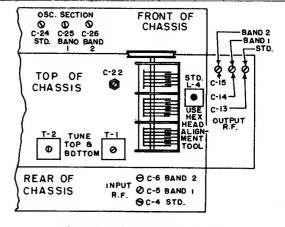


Figure 2. Tube and Battery Location Diagram

Figure 3. Alignment Point Drawing