

RE-CALIBRATION OF THE TRANSCEIVER TUNING DIAL

1. Follow paragraphs 1 and 2 under adjusting the receiver I.F. section.
2. Follow paragraph 3 under adjusting the receiver R.F. section.
3. Adjust receiver tuning knob to 50 Mc.
4. Adjust signal generator to 50 Mc. (Crystal controlled more desirable). Adjust receiver oscillator coil slug (L4) for maximum output on meter. You will notice that there are two peaks on this adjustment. The image frequency is the upper or lower peak. The correct peak is the lower peak. This can be checked by the use of a calibrated wavemeter or signal generator.
5. Adjust signal generator and receiving tuning knob to 53 Mc. Adjust Bandspread trimmer condenser (C4) for maximum gain on output meter.
6. Re-check the 50 Mc calibration. If calibration has slightly shifted re-adjust L4 coil slug and trimmer capacitor C4 until the calibration points of tuning dial are approximately equal. This can be checked by adjusting the signal generator to 50-53 Mc and noting where the signal comes in on the transceiver's dial.
7. It is necessary in making the R.F. adjustments to keep the signal generator output as low as possible.
8. Re-mount the transceiver chassis into cabinet using reverse procedure of removing the chassis from cabinet.
9. Before mounting the top cabinet shell check the dial calibration. If calibration has slightly shifted go over step 6.

NOTE: If no A.C. output meter is available the receiver's "S" meter can be used as an output meter. Set meter slide switch to "S" position and keep the generator signal input as low as possible to obtain $\frac{1}{2}$ meter scale reading.

NOTE: When steps 4 to 6 are made, the RF Peaking variable condenser (C3) is to be rocked at the same time for maximum gain on "S" meter or output meter.

If the 1st I.F. amplifier tube V3-12AU6 or the 2nd I.F. amplifier tube V4-A 6U8A/6E8 has been replaced and the meter pointer is not on zero, with no signal input, re-adjust the meter zero pot located beneath vibrator socket, on back chassis apron for electrical zero. The mechanical meter zero is to be adjusted with transceiver off.

R.F. POWER OUTPUT METER

Switch the unit to transmit position and the meter switch to "PRF". The meter will indicate the relative power feeding into the antenna. The meter is an indication for peaking the transmitter coils.

TO CONNECT THE LAFAYETTE HE-61 V.F.O. WITH THE HE-45B

Insert the V.F.O. cable plug into the 5 prong power jack located in the rear of the transceiver. The V.F.O. R.F. output cable with two pin plug, is plugged into the front V.F.O. socket on the HE-45B. The HI lead (with red dot) to the HI V.F.O. power socket.

SHIPPING INSTRUCTIONS

If the unit must be returned for adjustment or service, attach a tag to the unit bearing your name and complete address. Include, either in a letter or on the tag itself, the reason for returning the unit and a brief description of the difficulties encountered.

Wrap the unit in heavy paper before placing into the carton which should be large enough to permit the use of at least three inches of shredded paper or excelsior between all sides of the unit and the carton. Mark the carton FRAGILE and clearly address it as follows: —

TO:

LAFAYETTE RADIO ELECTRONICS CORP.
111 JERICO TURNPIKE
SYOSSET, L.I., N.Y.

Include your own name and address on the carton and ship by prepaid express. The unit will be returned to you by express collect. Bear in mind that the carrier will disclaim responsibility for damage if, in his opinion, it was caused by improper packing.

T5- POWER TRANS. ————— T1022-1	RCVR. VAR. CONDENSER ————— V235A-5	SELENIUM RECTIFIER ————— SR 883-1
T4- OUTPUT B. MOD. TRANS. ————— T1017-2	C4- RCVR. VAR. TRIMMER COND. ————— TC24-1	SILICON RECTIFIER ————— SR846-3
L3- RCVR. R.F. BANDPASS TRANS. ————— T188-2	T1- I.F. TRANSFORMER ————— I 110-5	CRYSTAL SELECTOR SWITCH ————— RS 849-5
L4- RCVR. OSC. COIL ————— O 189-4	ELECTROLYTIC COND. (CAN) ————— E 237-1	5000 Ω CHORE COIL ————— C 185-12
L1- TRANS. TRIPLER COIL ————— C190A-7	ELECTROLYTIC COND. (STRAP) ————— E 238-1	RCVR. TRANS. RELAY ————— R718-2
L6- TRANS. DOUBLER COIL ————— C 180-11	VOLUME CONTROL & SWITCH ————— V332A-2	P.M. SPEAKER ————— S719-4
L2- TRANS. OUTPUT COIL ————— C195-2	"S" METER ZERO POTENTIOMETER ————— P325-3	TUNING KNOB ————— K4005-11
DIAL SCALE ————— DS 620-1	MICROPHONE ————— M868-1	KNOB ————— K4005-12
1/2 WATT RESISTOR ————— 3029	MOLDED PAPER COND. ————— C 240	LIGHTER PLUG CABLE ————— PC 525-2
1 WATT RESISTOR ————— 3030	TUBULAR CERAMIC COND. ————— 2012-C	TANK COND. ————— C250B-1
5 WATT RESISTOR ————— W 328	L5- T.V. TRAP COIL ————— C191-2	VIBRATOR ————— CD 8400
2 WATT RESISTOR ————— 8109	RF PEAKING VAR. COND. ————— V 253A-1	ANTENNA TRIMMER ————— AT-25-1
"S" METER 1 MA D.C. ————— 3036	RF LIMITER CONTROL ————— V343A-1	
	REPLACEMENT PARTS. HE 45-B	