

MODEL 50

ALAMO ELECTRONIC CORP.

Model 50

SERVICE DATA

PART NO.
 R1 20,000 ohm $\frac{1}{2}$ watt
 R2 820
 R3 2 meg
 R4 45 meg
 R5 5 meg
 R6 .5 meg

R7
 R8 150 ohm 1 watt
 R9 .5 meg optional
 R10 40 ohm
 R11 1500 ohm 1 watt

C1 .0008 mica
 C2 2 gang condenser

C3-C6) .02 paper condenser

C13)
 C4 50 UUF mica
 C8) .005 paper condenser
 C10)
 C11 10MFD 25 volt
 C12 .03 paper condenser
 C14,C15 .05 paper condenser
 C16-C17 40 MFD-150 volt

1. Loop Antenna
 2. 1st I.F.
 3. 2nd I.F.
 4. Output Transformers
 5. 4" P.M. Speaker
 6. Pilot light #51

Lack of sensitivity and poor tone quality may be due to any one or a combination of causes such as weak or defective tubes or speaker, open or grounded bias resistor, bypass condenser, etc. Never attempt to realign set until all other possible sources of trouble have been thoroughly investigated and definitely proved not to be the cause.

NOTE: IT IS ABSOLUTELY NECESSARY THAT AN ACCURATELY CALIBRATED OSCILLATOR WITH SOME TYPE OF OUTPUT MEASURING DEVICE BE USED WHEN ALIGNING THE RECEIVER AND THAT THE PROCEDURE BE CAREFULLY FOLLOWED. OTHERWISE THE RECEIVER WILL BE INSENSITIVE AND THE DIAL CALIBRATION WILL BE INCORRECT. THE TRIMMERS WILL BE REFERRED TO BY THEIR FUNCTION AS INDICATED ON THE PARTS DIAGRAM.

GENERAL DATA. The alignment of this receiver requires the use of a test oscillator that will cover the frequencies of 455, 1400, 1600 KCS and an output transformer. For more accuracy a vacuum tube voltmeter should be used. If possible all alignments should be made with the volume control on maximum and the test oscillator output as low as possible.

1. Couple signal generator to loop loosely with one or two turns of wire connected to signal generator output.
2. Connect Output meter to voice coil or better connect vacuum tube voltmeter to B- (AC switch) and tie lug on top of chassis connecting to loop return.
3. Set signal generator to 455 KC and adjust 4 trimmers in top of I.F. cans.
4. Set signal generator to 1600 KC - set tuning condenser to minimum capacity and adjust oscillator trimmer on condenser gang.
5. Set oscillator to 1400 KC tune in signal accurately and adjust R.F. trimmer on condenser gang.

ALL RESISTORS $\frac{1}{2}$ WATT AND ALL CONDENSERS 400 VOLT UNLESS OTHERWISE MARKED