

TROUBLESHOOTING

A check of the battery condition and total current drain of the receiver should be made first. All current measurements are made at quiescence with the receiver turned on, volume control at maximum, tuning gang closed, and with no signal conditions.

The total receiver current drain is 15 to 20 mls. This is measured by inserting a milliammeter in series with the batteries.

If an excessive total current drain is recorded, the individual collector current readings of each transistor should be checked.

NO RECEPTION:

1. Check battery voltage and battery contacts.
2. Check on-off switch.
3. Check all antenna lead connections.
4. Check coil L2.

WEAK AUDIO:

1. Check battery voltage for 4.5 volts.
2. Check battery current.
3. Check transistor collector currents.
4. Check alignment.

INTERMITTENT:

1. Check battery contacts for corrosion.
2. Check solder connections on dip-soldered side of circuit board.

Intermittent audio, motorboating, and poor reception is frequently caused by poor battery contact. The battery terminals should be cleaned to insure positive electrical contact.

ALIGNMENT

SET VOLUME CONTROL AT MAXIMUM.
CONNECT OUTPUT METER OR SCOPE ACROSS VOICE COIL.
INDUCTIVELY COUPLE SIGNAL GENERATOR TO RECEIVER

STEP 1 - 2 & 3 - SET SIG. GEN AT 455 KC, WITH RECEIVER TUNING GANG OPEN

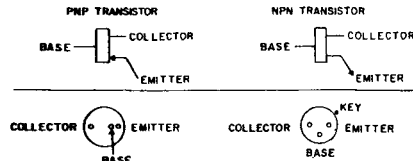
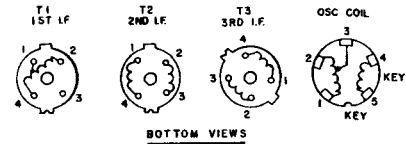
STEP 4 - SET SIG. GEN. AT 1620 KC, WITH RECEIVER TUNING GANG OPEN

STEP 5 - SET SIG. GEN AT 1400 KC, TUNE RECEIVER TO 1400 KC.

STEP 6 - SET SIG GEN AT 580 KC, TUNE RECEIVER TO 580 KC.

NOTES-

- (1) TRANSISTOR R1
2N164A
2N162/1297 60K
2N164A
2N162A
2N162D } 27K, 33K, OR 39K
- (2) AFTER REPLACING TR2, CHECK VOLTAGE ACROSS R6. IF NOT WITHIN RANGE, CHANGE VALUE OF R9 UNTIL VOLTAGE ACROSS R6 IS WITHIN VOLTAGE RANGE
- SHOW R
- (3) REPLACE WITH TRANSISTOR TYPES SHOWN.



TRANSISTOR
BOTTOM VIEWS

MEASURE COLLECTOR CURRENTS WITH A MILLIAMMETER INSERTED IN SERIES WITH THE CIRCUITS MARKED "X"

ALL VOLTAGES ARE POSITIVE WITH RESPECT TO GROUND.

UNLESS OTHERWISE NOTED - CAPACITORS MORE THAN 1=MMF CAPACITORS LESS THAN 1=MMF RESISTORS ARE 1/2 WATT K=1000

