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Cobra 138XLR Technical Bulletin 1216

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COBRA FIELD BULLETIN

SUBJECT: TR-36/R153 Crystal Drift Correction Modification Cobra 138XLR.

SYMPTOM: After the radio has been on a period of time, high temperatures are generated by TR36 & R153 causing excessive heating of the SSB crystals in the near proximity. This will appear as excessive transmitter or receiver drift on SSB operation.

SOLUTION:

1. Remove R153 56ohm 2W resistor. Replace resistor with a piece of the #22 AWG solid copper wire on P.C. board.
2. With the controls facing you, the component side up, remove TR36 ZSC1419B and relocate by mounting with a mica insulator, insulating shoulder washer, Phillips head screw, and hex nut, on the right side of main chassis (near mike connector).

MOUNTING INSTRUCTIONS:

1. Drill or punch a 1/8 inch diameter hole on the right side of the main chassis, near mike connector, 2½ inches from front edge of chassis and ½ inch from top. Be sure all drilling chips are removed from the radio. Any burrs in component side of hole must be removed by chamfering tool or other means.
2. Apply a small quantity of heat sink paste (Wakefield Thermal Compound) to both sides of the mica insulator and mount horizontally against the chassis. Then mount TR36 against the insulated shoulder washer, screw and nut. Make sure the shoulder on the insulating washer seats in the hole in the transistor heat sink.
3. Cut three pieces of #22 AWG stranded teflon or vinyl covered wire, colored orange, green and violet (or substitute colors

as required) into 6" lengths. Strip insulation 3/8" of each end and tin. Then mount each wire to the emitter-base collector of TR-36 and the opposite ends to the corresponding points on the P.C. board where the TR-36 transistor was previously mounted.

- NOTE:
1. This modification is applicable up to Production number 70029001 units beyond this number already contain this modification.
 2. This modification should be done on all radios in for in-warranty repair.

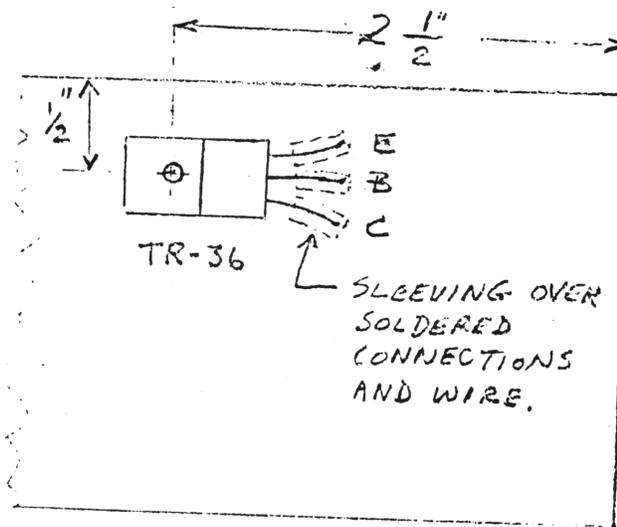


FIG. 1.

DDW/jg
6/21/77