

DATE

SHEET 1 OF 2

TMC SPECIFICATION NO. S 1134

COMPILED

CHECKED

TITLE: CU-2 DIODE/RESISTOR REPLACEMENT

APPROVED

KIT-283

1. GENERAL DESCRIPTION

This modification kit is intended to provide a complete replacement package for the diode sensors and the resistance element of the R.F. bridge in the directional coupler unit, TMC Model ATS/CU-2.

2. EQUIPMENT SUPPLIED

- a. One (1) each TMC Part No. AX 649.
- b. One (1) each alignment tool TMC Part No. TP-110.

3. EQUIPMENT REQUIRED BUT NOT SUPPLIED

- a. One (1) each R.F. power source variable between 100 watts and 1000 watts at a frequency of 6.0 mcs.
- b. One (1) each 50 or 70 ohm dummy load with power rating suitable for R.F. power source indicated in para. 3a.
- c. One (1) each R.F. VTVM.
- d. One (1) each soldering iron 75-100 watt.
- e. One (1) each long nose pliers.
- f. One (1) each Phillips screwdriver size P-1.

4. PROCEDURE

- a. Refer to figure 5-6 of the ATS-2 instruction manual, IN-2001/214, issue date 1 May 1961.
- b. Orient the directional coupler to correspond with figure 5-6.
- c. Remove top cover of coupler.
- d. Unsolder C-302, L-302, L-304, L-303 and C-305 at their respective connections to A-301.

CAUTION

Do not unsolder the other end of these components.

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- e. Remove the screws (4) securing J-301 and J-302 to the end plates of the coupler.
- f. Remove the end plates of the coupler.
- g. Withdraw A-301 with J-301 and J-302 from the coupler.
- h. Remove J-301 and J-302 from A-301 by holding A-301 firmly and unscrewing J-301 and J-302 by turning them counter-clockwise. Discard A-301.
- i. Attach J-301 and J-302 to the new A-301 using the reverse procedure indicated in step h.
- j. Orient A-301 to correspond with figure 5-6 and reinsert in coupler.
- k. Replace end plates removed in step f.
- l. Secure J-301 and J-302 to the end plates.
- m. Reconnect and resolder C-302, L-302, L-304, L-303 and C305 to their respective connections on A-301.
- n. Replace top cover of the coupler.
- o. This completes the replacement of A-301.
- p. Realign and re-calibrate the ATS-2 system using the procedure outlined on pages 6-0, 6-1, 6-2, and 6-3 of the ATS-2 instruction manual.

