



# SERVICE BULLETIN

Bulletin No. AM-103-PDR

Date 7-22-76

Equipment: All MW-1 Transmitters

SUBJECT: VSWR Protection Circuit; Board A-18

PURPOSE: To help eliminate nuisance VSWR trips.

MATERIALS REQUIRED: (1) 2K ohm,  $\frac{1}{2}$ W, 5% Resistor

Harris Corporation will supply the above part at no charge if so requested.

- PROCEDURE:
- (1) Remove all power from the transmitter.
  - (2) Remove CR3, 1N2071 Diode, from the junction of R6 and the collector of Q6.
  - (3) At the junction of R6 and the collector of Q6 place a 2K ohm,  $\frac{1}{2}$ W, 5% Resistor to ground.
  - (4) Move the VSWR sensitivity control R8 to its most clockwise position. We have determined that no harm will come to the transmitter with the VSWR sensitivity control at its most insensitive position. This setting will give an indication of approximately 600W on the REL/VSWR meter, however, be assured this is not 600W of reflected power, but only a relative measure of reflective power.

By removing CR3, thirty volts is being prevented from reaching the overload counter circuit, which will in turn prevent the transmitter from going into the overload condition and turning off.

Please note that steps two (2) and three (3) were contained in a Field Service Bulletin dated November 15, 1975 (Bulletin Number AM-097-LAP)

This bulletin contains the change in step number four (4).

THIS COMPLETES THE MODIFICATION.