

M400 Interfacing With The R*I*C*K

WARNING

Before placing a Radius "2-mobile" repeater in service, Part 90 FCC Rules and Regulations must be consulted. The legal limits for frequency use, power output, coded squelch and antenna height must be determined for a given service of operation.

The Radius M400 trunk mounted radios may be used only as the "transmitter" radio and only in the unidirectional repeater configurations of the Radius "2-mobile" repeater. The interconnection to the R*I*C*K is via the VIP connector on the M400 Advanced Control Head. The cable is not available from the factory; one may be assembled in the field from one of the 16-conductor cables, 3080137S01, and a VIP connector, 1580221J01.

- 1) Cut off one of the 16-pin connectors from one of the 16-conductor cables, 3080137S01, included with the R*I*C*K.
- 2) Remove approximately 2" of the outer insulating jacket of the cable at the free end. Be careful not to nick the spiral wrapped shield or any of the conductors inside the cable.
- 3) Locate the RED (no striping) wire. Strip 1/8" of insulation from the end and attach a contact, 3984257L01. Place the contact into the #4 hole of the VIP connector. Push the contact through the gasket until a "click" is heard.
- 4) Locate the ORANGE (no striping) wire. Strip 1/8" of insulation from the end and attach a contact, 3984257L01. Place the contact into the #20 hole of the VIP connector. Push the contact through the gasket until a "click" is heard.
- 5) Locate the stranded, BARE "drain" wire. Twist the individual wires together to form a single lead. Slip a short length of insulated "spaghetti" tubing over the lead. Attach a contact, 3984257L01. Place the contact into the #5 hole of the VIP connector. Push the contact through the gasket until a "click" is heard.
- 6) Since the other leads of the 16-conductor cable are not used, they may be cut off near the outer insulating jacket.
- 7) Bundle the RED, ORANGE and BARE wires together and secure to the VIP connector with a tie wrap.
- 8) Plug the VIP connector into the VIP receptacle on the back of the Radius Advanced Control Head.
- 9) Plug the 16-pin connector into the "J3-TX" jack on the R*I*C*K.
- 10) Continue to the sections of this manual titled "R*I*C*K, Radio and Associated Hardware" and "R*I*C*K Adjustments" for the completion of the setup process.