MIKE GAIN CONTROL & 10-TURN "FINE-TUNING" CLARIFIER
FOR REALISTIC TRC-458

PARTS REQUIRED:

1 ea. 20K 10-turn pot (available from Secret CB)
   (Bunker-Ramo 4201B or equivalent)
1 ea. 10-turn dial scale (Clarodial type 411)
18" 3-conductor shielded microphone cable (Belden 8735 or
    equivalent)
½ doz. Ty-raps

1. Remove housing, knobs, and faceplate from radio.

2. Locate the "TRC-458" logo on the left center of faceplate
   (See diagram) and, using a center punch, make an indentation
   in the approximate center of the logo.

3. Carefully drill a 1/8" hole in the face plate at this loca-
   tion.

4. Temporarily reinstall the faceplate on the chassis and mark
   the hole location on the chassis using the faceplate as a
   guide. Centerpunch the chassis and drill a 3/8" hole making
   sure it lines up with the hole in the faceplate.

5. Remove and desolder the clarifier control and set it aside.
   This pot will be used later for the mike gain control.

6. Install the 10-turn clarifier in the chassis making sure that
   as much of the threaded end of the control as possible extends
   out of the front panel (this will permit installation of the
   dial scale later). Solder the three clarifier leads as
   shown in the connecting diagram.

7. Locate VR6 (right rear of circuit board) and carefully de-
   solder and remove it from the board.

8. Install the old clarifier control in the 3/8" hole in the
   chassis front panel and solder the 3-conductor cable to the
   terminals on the pot. (Do not connect the shield at this
   time.)

9. Secure the cable to the wiring harness with ty-raps (see
    diagram) and solder the 3-conductor to the circuit board at
    the points previously occupied by VR6. Connect the shield
    to chassis ground using a jumper wire. (see connecting diag.)
10. Carefully enlarge the 1/8" hole in the face plate to 3/8" and reinstall the faceplate on the chassis.

11. Reinstall the housing and knobs using the old clarifier control knob on the mike gain control.

12. Rotate the 10-turn clarifier fully counter clockwise and install the dial scale knob making sure the scale is set to zero (0).

NOTE: The mike gain control allows variable audio gain (like the Cobra "Dynamike") and the 10-turn clarifier permits very fine tuning for super DXing.