

MODIFYING THE COBRA 148GTL Using The "D" Kit.

Alignment

With a counter connected to read the transmitter frequency, apply power.

1. Connect a scope to the yellow dot terminal of the epoxy pack. Adjust the tanks on the epoxy pack and the black tank on the input to the mixer for the best and most clean signal. Adjust too, for the same amplitude of signal at each end of the frequencies you have installed crystals for.
2. Select channel 1 and adjust each capacitor of each group frequency crystal. The frequency it should read is stamped in black on the side of the crystal.
3. Do a normal transmitter-receiver alignment using center frequency. If everything has been broad-banded properly, the extreme ends of the frequencies should be about half power points.

MODIFYING THE COBRA 148GTL Using The "D" Kit.

Make up your switch or switches as previously outlined for the "C" kit. The hook-up procedure is the same except: if your frequencies do not exceed 120khz. You can omit those steps marked with an (*). Broad-banding should not be needed modifying the Cobra 142GTL, using the TC-DX kit.

1. Remove covers.
2. Remove Dynamike control and secure it to the mike plug and power switch wires. Note: Leave the control fully cw.
3. Enlarge the hole where the Dynamike control was removed to 3/8".
4. Mount all crystals in the switch PC board on the printed circuit side, leaving them standing about 1/4".
5. Change the white and black leads, for wires of about 10" long each.

MODIFYING THE COBRA 148GTL Using The "D" Kit.

6. Using one of the washers from the group selector switch, cut a hole in the round decal the size of the washer's outside diameter. Place this decal on the front panel.

7. Mount the switch.

8. Mount the epoxy pack on the bottom side of the metal chassis, next to IC-5 (transmitter mixer) with the orange and blue dots forward.

Step Two

1. . Connect the black wire of the switch to the shield on the right side tuning tank. Then solder a wire from this tank to the ground on the PC board near L-14.

2. Connect the white wire to the orange dot on the epoxy pack.

3. Locate the output of L-14 (TP-1). Cut the PC run at the output of L-14.

4. Connect a wire from the output of L-14 to the blue dot terminal on the epoxy pack.

5. Connect a wire from the yellow dot terminal on the epoxy pack to the part of the PC pad across the cut from L-14.

6. On this pad, find the resistor feeding the black tuning tank for the transmitter mixer. Replace it with the .01uf capacitor supplied.

7. Run a wire from the red dot terminal on the epoxy pack to pin 8 of the UHIC-007 mixer (IC-1).

8. Solder the 150pf capacitor supplied across the outside legs of the black transmitter mixer tank, on the three legs side.

*9. At the rear left corner of the epoxy pack find C-160 (1.5 to 5pf capacitor). Parallel it on the PC side of board with the 18pf capacitor supplied.

Modifying the Cobra 21 & 25LTD, AR & AX-44/Uniden PC-66

*10. Just to the rear and left of this point, find C-157. Remove it.

*11. Next to C-157 there is a 330 ohm resistor. Replace it with a 470 ohm resistor.

*12. In the receiver section find L-8 and L-9. There is a 2pf capacitor coupling these two tanks (C-38). Jumper across C-38 on the PC side of the board.

*13. Just to the rear of L-9 you will find a 10k resistor R-40. Stand the leg of it up and solder a 4.7k resistor where it was raised from. Solder the two legs together (putting them in series).

14. Find the green and blue wires coming from the mode switch to the PC board, near L-21 and L-22. There are two jumpers just forward of them (JP-25 and JP-26). Remove these two jumpers and cross wire them.

Alignment is the same as for the Cobra 148GTL.

Modifying the Cobra 142GTL using the "D" kit

Procedure is the same as for the Cobra 148GTL except: we recommend that the switch or switches be mounted between the voice-lock and mode switches. Place them higher or lower but not in-line, both of the switches are to be used.

Modifying the Cobra 21 & 25LTD, AR & AX-44/Uniden PC-66

and other sister units, using the "LTD" kit for High and Low channels.

Step One

1. Before removing the covers, drill a 1/8" spotter hole through both the cover and chassis, 3/4" to the rear and in line with the upper mike bracket mounting hole/right side of unit.

2. Remove covers, mark and drill two more 1/8" holes 13/32" front and rear of the spotter hole on the chassis.