

Cobra 4 pin HighGear HG M75 CB Radio Power Mic

In searching for a mike for my bitx projects I found the HG M75. It was a coil cord mobile mike with a built in preamp and adjustable gain control. It was available all over the internet for around \$20.00 This was perfect for my purpose. The next problem was the connector pinout. After a lot of searching, I found the following:



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Section IV Operation (Continued)

ALTERNATE MICROPHONES AND INSTALLATION

For best results, the user should select a low-impedance dynamic type microphone or a transistorized microphone. Transistorized type microphones have a low output impedance characteristic. The microphones must be provided with a 4-lead cable. The audio conductor and its shielded lead comprise two of the leads. The third lead is for receive control, the fourth is for transmit control.

The microphone should provide the functions shown in schematic below.

4 WIRE MIC CABLE

Pin Number	Mic Cable Lead
1	Grounding
2	Audio Lead
3	Transmit Control
4	Receive Control

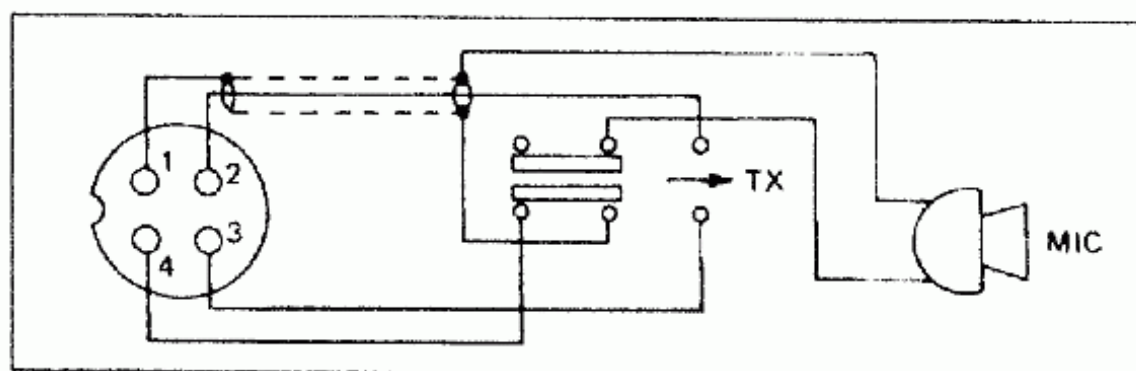


Fig. 1. Cobra 148GTL microphone schematic.

If the microphone to be used is provided with pre-cut leads, they must be revised as follows.

1. Cut leads so that they extend $7/16$ " beyond the plastic insulating jacket of the microphone cable (see Fig. 2.)
2. All leads should be cut to the same length. Strip the ends of each wire $1/8$ " and tin the exposed wire.

Before beginning the actual wiring, read carefully, the circuit and wiring information provided with the microphone you select. Use the minimum head required in soldering the connections. Keep the exposed wire lengths to a minimum to avoid shorting when the microphone plug is reassembled.

Add a jumper between pins 2 and 4. The PTT line hooks to pin 3 and the audio to

pin2. Pin 1 connects to ground.

For a schematic of the mike circuit and a possible modification of it go to: [Mike schematic and modification](#) I haven't modified mine and it seems to work satisfactorily.

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