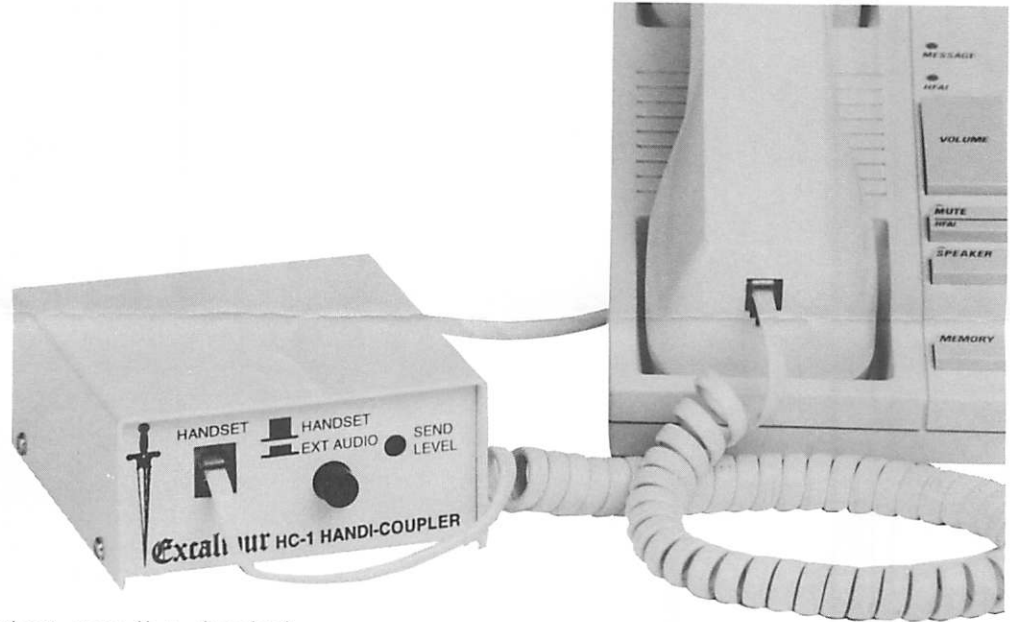




# Excalibur Electronics

## HC-1 HANDI-COUPLER



The HC-1 HANDI-COUPLER gives you the simplest, quickest, most convenient way to connect audio to a telephone. The HC-1 connects in series with the handset of any telephone using modular connectors. Since a connection to the telephone *line* is not required, the HC-1 can be used with almost any telephone, single or multi-line, modern electronic or older key systems. Since it's passive, no power is required.

Press the front panel on-off button on the HC-1 and external audio in and out are connected to your telephone. Release the button and the handset is once again connected, allowing normal use of the telephone. Nothing could be simpler!

External audio is connected via separate in and out jacks on the rear of the HC-1. Both inputs and outputs are TRS jacks wired so that you may plug either balanced (TRS) or unbalanced (TS) connectors into them.

The HC-1 HANDI-COUPLER is ideal for use in many locations around your station: on-air studio, production studio, newsroom, sales office, etc. Outside the station, it works great too. Use it for your news kit, sports remotes, etc. Its low price lets you put an HC-1 everywhere one is needed.



Rear View



Front View

### SPECIFICATIONS

Telephone/Handset connections .....	4 pin modular
External audio connections .....	1/4" TRS phone jacks
Send level .....	+4dBm (adjustable)
Receive level .....	-20 to -10dBm (depends on incoming signal)
Frequency response .....	100 Hz - 5 kHz $\pm$ 3dB (usually, though, limited to less by the phone line)
Distortion .....	< 0.5%
Size .....	1-3/4" H x 3-1/2" W x 4" D

**Excalibur Electronics**  
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## HC-1 HANDI-COUPLER Instructions

### Installation

To install your HC-1 Handi-Coupler, simply unplug the handset cord from your telephone and plug it into the jack labeled "HANDSET" on the front of the HC-1. Now take the short jumper cord (supplied with your HC-1) and plug one end into the jack labeled "TELEPHONE" on the back of the HC-1. The other end of the jumper plugs into the handset jack on your telephone.

External audio is connected to the "SEND" and "RECEIVE" jacks on the back of the HC-1. Both jacks are  $\frac{1}{4}$ " TRS style. To use a balanced source/load (such as a broadcast console), connect the high side lead to the *TIP*, the low side to the *RING*, and the shield to the *SLEEVE* of a TRS connector. To use an unbalanced source/load (such as a portable cassette machine), connect the high side lead to the *TIP* and the shield to the *SLEEVE* of a TS plug. If you use a TRS plug for unbalanced applications, you must short the *RING* and *SLEEVE* together.

### Operation

With the front panel button on the HC-1 in the *OUT*, or "HANDSET" position, the handset is connected and your telephone functions in a normal manner. To connect external audio to your telephone, press the button *IN* to the "EXT AUDIO" position. The handset is now disconnected and the rear panel external audio "SEND" and "RECEIVE" jacks are connected.

There are no adjustments for the receive level -- it is what it is, depending on the receive level of your phone line. Typical levels range from -10 to -20 dBm. The send level is adjustable with a small screwdriver from the front panel of the HC-1. The default factory setting sends -9 dBm to the phone line (the FCC limit) with a +4 dBm input. It may be adjusted as necessary for different telephones or sources.

### Warranty

Two years, parts and labor. This does not cover damage due to lightning, misuse, modification, spilled coffee, or other causes clearly beyond our control. Contact your Excalibur dealer for answers to any questions you may have regarding the warranty.

SCHEMATIC, HC-1 HANDI-COUPLER

