

HANDI-Finder®

Version
A031123

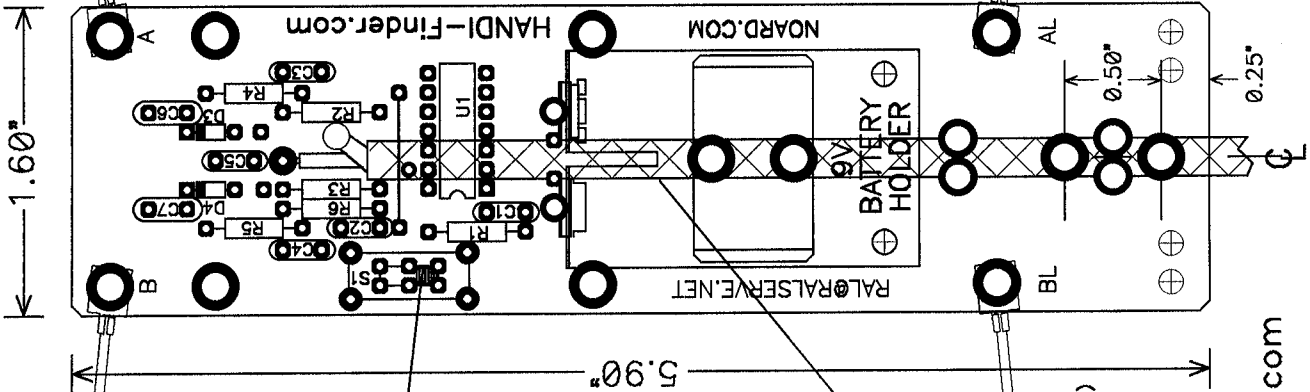
SWITCH FUNCTION
UP=ON=D.F.
CENTER=OFF
DOWN=ON=LISTEN

FRONT VIEW
COMPONENT SIDE
ASSEMBLY OVERLAY

Dwg: HF3L0UT.PCB
Date: 040103

ROUTE COAX DOWN
CENTER OF NON-
COMPONENT SIDE.
TAPE TO HANDLE.

(LEFT ANTENNA ONLY PARTLY
SHOWN IN THIS ILLUSTRATION)



The HANDI-Finder®

The **HANDI-Finder®** is a **HANdheld DIRECTION Finder** which can be used to localize both AM and FM carrier-based sources using a single connection to the antenna input of an FM receiver tuned to a frequency of interest in the range of 45 to 470 MHz.

It has been designed for low power consumption, simplicity, and economy. Because it is both an easy-to-build kit for the beginner and a convenient basis for further experimentation by those with more experience, it makes a great club project! Overall, it is a quick inexpensive way to introduce the principle of direction finding, and provide something ready and compact to keep on hand for locating sources of interference.

Except for adding a handle, fabrication is minimal, because two open-loop antennas are bent into a "U" shape and mounted directly to the board as illustrated.

The coax download is connected to an FM receiver. The unit is switched on (UP) and rotated for a null in the audio tone heard on the receiver. The direction is perpendicular to the plane of the antennas. The 180-degree ambiguity is not a problem in actual use since multiple bearings must be taken anyway. Refer to the extensive discussion in the manual. The switched is moved DOWN to stop the tone for monitor and standby purposes or to the CENTER position to shut off the unit.

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HANDI-Finder®

HANDHELD RADIO DIRECTION FINDER ATTACHMENT
for FM Radios. www.handi-finder.com