



Subsurface Solutions
 Damage Prevention Experts
 www.SubsurfaceSolutions.com

A-Frame Fault Finder

Quick Start Guide

This guide provides basic procedures for using the RD7100 or RD8100 Locator with the accessory A-Frame Fault Finder. Additional information on utility locating and equipment operation is found in the User Guide and Operation Manual, which are available from www.radiodetection.com.

You should always disconnect both ends of cable prior to fault finding.

Transmitter setup

Connecting the transmitter:

Ensure the transmitter is switched off and the cable sheath is isolated at both ends.

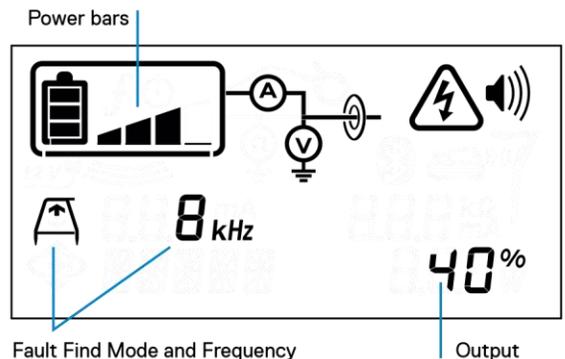
Plug the direct connection lead into the transmitter.

Clip the red connection lead to the cable or cable sheath ensuring that the area around the connection is clean.

Extend the black connection lead as far as possible and at 90° to the probable route of the target cable and clip the connector to the ground stake.



- Turn on transmitter by pushing the  button.
- Set frequency to Fault Find and 8kHz, pushing the  button.
- Set power to 3 bars by pushing  and  buttons.
- Display shows output in percentage.



Locator setup

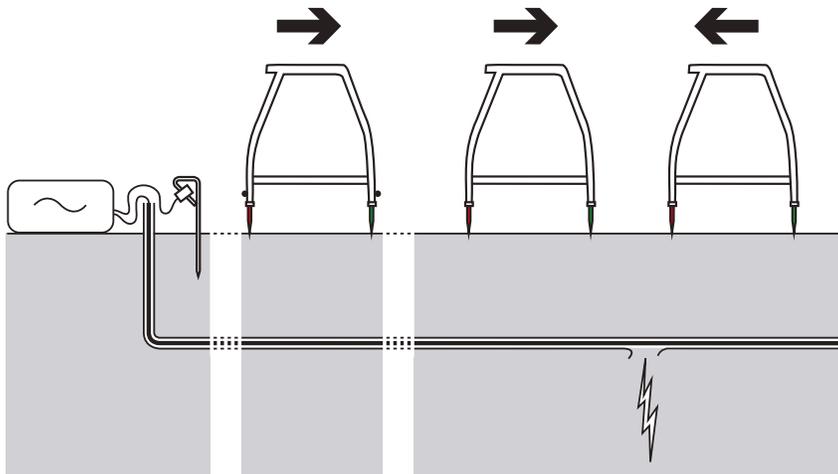
- Turn on the locator by pushing the  button.
- Plug accessory A-frame into locator as shown. Locator will recognize the A-frame and automatically set to 8KFF mode. Make sure that the locator screen faces the **green** A-frame probe as shown.

The locator can be mounted in the A-frame as shown or held separately. However maintain the orientation of screen faces the green.

Starting from the transmitter connection to the faulted line: Walk along the cable route pushing the spikes into the ground with the green spike facing away from the transmitter.

- Take readings approximately every 5 paces.

Where there are no faults, the dB reading will be low and the direction arrow may flicker forward and back.



- As the fault is approached, the Fault Find arrows will lock on to the signal and point forward and the dB readings will increase. When the fault is passed, the arrow will point back toward the fault.
- Pinpoint the fault by taking readings at closer intervals to determine the location at which the arrow direction reverses.
- The dB reading will be higher leading to and from the fault but will drop when the A-frame is directly over the fault.

To locate the cable and determine depth, unplug the A-Frame cable and switch the receiver to the locate mode by pressing the  key and select 8kHz.

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