

# THE PINPOINTER

AN UNSHIELDED SECONDARY CABLE FAULT LOCATOR

QUICKLY PINPOINTS ALL SECONDARY FAULTS  
IN DIRECT BURIED UNSHIELDED CABLES.

**NEW CASE DESIGN!**

ACCURATE EARTH GRADIENT METHOD  
IGNORES GHOST IMAGES.

VARIABLE SENSITIVITY DETECTOR

2500 VDC PULSE

PART NUMBER: HJA-471



***Accurate. Affordable. Fast. Get right to the point!***

*DON'T BEAT AROUND THE BUSH. THE PINPOINTER LOCATES SECONDARY CABLE FAULTS IN DIRECT BURIED UNSHIELDED CABLES TO WITHIN INCHES OF THE FAULT, EVEN UNDER SNOW OR FROZEN GROUND, AT STREET LIGHT CIRCUITS, AT THE METER RISER, ACROSS DRIVEWAYS, SIDEWALKS, OR STREETS.*

*YOU DON'T EVEN HAVE TO KNOW THE EXACT ROUTE OF THE CABLE.  
FOR OVER 45 YEARS, THE PINPOINTER HAS SAVED END USERS TIME AND MONEY.  
NO COSTLY, UNNECESSARY DIGGING. YOU GET RIGHT TO THE POINT.  
HIGH ACCURACY, LOW COST, RELIABLE, AND EASY TO USE.*



**SAFETY | SERVICE | SAVINGS**



INDUSTRY LEADERS IN  
ELECTRICAL TESTING & PRODUCTS  
FOR UTILITIES & COMMUNICATIONS



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# OPERATING THE PINPOINTER

**CAUTION:** ALWAYS USE APPROVED PERSONAL PROTECTION EQUIPMENT WHEN WORKING WITH ENERGIZED CONDUCTORS. ELECTRICAL SHOCK OR INSTRUMENT DAMAGE CAN RESULT IF TRANSMITTER IS CONNECTED TO AN ENERGIZED POWER CABLE. NEVER CONNECT THE PINPOINTER TO A LIVE PRIMARY CABLE. USE QUALIFIED UTILITY PERSONNEL TO DISCONNECT PRIMARY AND SECONDARY CABLES WHEN REQUIRED.

## First, De-energize & Disconnect Service:

1. Whether the cable from the transformer serves one or more residences, pull all meters affected by the faulted cable. Connect the Pinpointer to the first meter affected by the fault.
2. Disconnect the faulted cable from the transformer if the voltage on the cable is 80 volts or more.
3. Disconnect the neutral at the transformer and house meter.
4. Disconnect any temporary service from house.



The Transmitter  
HJA 470-102



Detector Probe & Cable Package  
PN: HJA-101-HDPKG

## Connect the Transmitter-Power Options:

1. **120 VAC POWER:** With Transmitter power switch OFF, connect line cord to 120 VAC at a wall outlet.
2. **2-Wire AC Adapter:** Connect at the meter base using the 120 VAC adapter cord. Always connect white wire to neutral first, black wire is connected to 120VAC hot leg.
3. **12V Battery:** 12V Battery: If AC power is not available, connect Pinpointer using 12V 2-wire cord. This cord allows connection to any 12VDC battery, such as truck or auxiliary battery.

\*An optional built-in rechargeable battery kit is also available.  
\*PN: HJA-470-109. Always observe proper polarity.



2-Wire AC Adapter



12V, 2-wire cord



Optional Rechargeable Battery  
HJA 470-109

## Connect the Detector:

1. Pull the "Balance" control on the back panel to power the Detector. With "Sensitivity" control at minimum, adjust Balance control to move meter needle to center of scale.
2. Push Battery Test button to check battery status.
3. Plug red and black detector probe wires into respective jacks on back detector panel. Clip probe wires to probes. Hang detector around neck.
4. With right hand, insert red probe into ground near meter riser or the ground stake, depending on what you've chosen for



The A-Frame Detector  
PN: HJA-470-210



Detector Probes:  
PN: 470-101-HDPR ~ RED  
PN: 470-101-HDPB ~ BLACK



Detector Cables:  
PN: 470-101-CBBL ~ BLACK  
PN: 470-101-CBRD ~ RED



The Detector: Front  
PN: 470-100



The Detector: Back  
PN: 470-100

## Connect to the Faulted Cable:

1. Connect red Transmitter lead to the faulted cable at meter base.
2. Push the ground probe provided into the ground at right angle to the lay of the faulted cable. The ground probe should be placed as far away from the faulted cable as possible.
3. Connect the black Transmitter lead to the ground probe.
4. After making the above connections, turn ON Transmitter high-voltage output.

## Locating Faults:

1. Operator stands behind probes, so that red probe is toward the Transmitter. When the Transmitter pulses (audible), the detector's needle moves in direction of the fault on buried cable.
2. Close to the meter riser or location of established ground rod, the detector shows every transmitter pulse. Proceed down the route of the buried cable "football chain" fashion, taking readings every 20 to 30 feet.
3. As you move down the cable the meter deflections may decrease. This is the "silent detector" feature which prevents locating phantom faults caused by "noise" from adjacent lines. The needle's movement increases again near the area of the fault. Continue probing.

## ABOUT THE COMPANY

HJ ARNETT INDUSTRIES, L.L.C., IS AN OREGON COMPANY WHICH MANUFACTURES AND DISTRIBUTES PRODUCTS FOR THE ELECTRIC, TELECOMMUNICATION, AND COMMERCIAL/INDUSTRIAL INDUSTRIES.

FOR OVER 45 YEARS, THE COMPANY HAS WORKED CLOSELY WITH ITS CUSTOMERS TO DEVELOP PRACTICAL PRODUCTS GEARED TO SOLVING EVERYDAY PROBLEMS FOR UTILITIES AND INDUSTRY.

THE COMPANY'S LINE OF INSTRUMENTS HAS GROWN OUT OF DIRECT DISCUSSION WITH AND RESPONSE TO LINEMEN AND ENGINEERS. WE WELCOME YOUR INQUIRIES AND COMMENTS.

## CHECK OUT THE COMPLETE LINE OF SERVICE CONDUCTOR TEST INSTRUMENTS

### THE SUPER BEAST-P

20 AMP, PULSING SERVICE CONDUCTOR TESTER

### THE MEGA BEAST

80 AMP, 3-WIRE SERVICE CONDUCTOR TESTER

### THE DC SCOUT

DC GROUND CURRENT FAULT LOCATOR