

PF-50 Cable Identifier Instruction Manual

IMPORTANT SAFETY INFORMATION

Read and understand these instructions prior to use. These operating instructions are not a substitute for proper training in the use of this equipment. High voltage systems present serious hazards, including the risk of death or serious injury due to arcing, thermal burns and electrocution. HD Electric's products are intended solely for use by professionals with knowledge, training and experience in the use of the equipment and its accessories in and around high voltage systems.

All applicable federal, state, company and OSHA work practices must be followed. If you are unfamiliar with the work practices required, DO NOT PROCEED. Call HD Electric Company if you have any questions regarding this equipment.

Important labels are affixed to the products. Read and understand each of them before proceeding.

These tools may require the use of accessory hotsticks, which may or may not be supplied. The minimum hotstick length required for safe use depends upon the particular operation; consult federal, state, company or OSHA specifications for the proper hotstick length for the intended operation.

The users of this device should always be equipped with personal protective equipment including high voltage gloves, flame retardant clothing and eye and face protection. Some applications may require additional protective equipment.

Failure to follow these and other warnings and safety precautions may result in severe injury or death.

NOTICES - This product is designed for use by professionals trained in its use and application in and around high voltage electrical equipment. If you are not trained in the work methods required for safe operation, do not proceed until you obtain the training.

CAUTIONS - This product was tested before leaving the factory but it must be inspected prior to and after each use for proper working condition. If any defect or condition is noted, do not use this product. Remove from service and arrange for repair.

WARNINGS - Rigorous hot stick work precautions and all OSHA and company work practices must be followed. Always wear approved cover-up and safety equipment. Read and understand instructions prior to use. Misuse and abuse of this product can lead to severe injury or death.



HD ELECTRIC COMPANY

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GENERAL DESCRIPTION

The PF-50 is a cable identifier system designed for identifying overhead and underground cables from one end to the other. The system consists of two similar tools; a Transmitter and a Receiver. The Transmitter is connected on one end of the cable to be identified and the Receiver on the other end. Red lights on both units lights indicate that the signal sent by the Transmitter has been received and that both Transmitter and Receiver are connected to the same cable.

These HD Electric tools are designed for use only on cables that have been verified to be both deenergized and discharged. These tools do not have any capability to withstand any externally applied voltage.

These tools are designed to be hand held with or without voltage insulating gloves. These tools include a universal spline connection for use with hotsticks to allow the user to maintain a distance from the equipment or cable terminals being tested, but use with hotsticks does not allow the application of these tools on energized systems.

The alligator clip on the end of the coil cord must always be connected to ground prior to connecting the tool to the cable and should be removed from ground only after cable testing is completed.

Both Transmitter and Receiver are powered by 9V alkaline batteries which can be accessed on the top of each unit.

OPERATING INSTRUCTIONS

WARNING: Before using the tools, test and inspect both the Transmitter and Receiver to insure that they are functioning properly and are in safe, working condition. Note that the transmitter supplies 50VDC at the probe. Before making any cable tests inspect the tool as follows:

- 1) Connect the two ground clips to each other.
- 2) Turn on both the Transmitter and Receiver using the front panel switches. Replace the 9V battery if the green light is not on.
- 3) Touch the Transmitter and Receiver probes to each other. Red lights on both units indicate they are working properly.



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CABLE IDENTIFICATION

Before attempting cable identification using the PF-50, isolate, test and ground the cable to be identified.

- 1) Connect the ground clips on each unit to a known system ground. Turn on both the Transmitter and Receiver. The green lights on both units indicate good batteries.
- 2) Touch the Transmitter to one end of the cable to be identified.
- 3) Touch the Receiver to the opposite end of the cable to be identified. Red lights on both units indicate the Receiver is connected to the same cable as the Transmitter.
- 4) After the cable has been identified, remove both the Transmitter and Receiver from the identified cable, remove their ground clips from the ground connection and turn them off.

SPECIFICATIONS:

Maximum underground cable length: 5,000 ft.

Battery: 9V alkaline

LIMITATION OF WARRANTY AND LIABILITY

NOTICE: READ THIS LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT. IF THE TERMS ARE NOT ACCEPTABLE, RETURN THE PRODUCT AT ONCE, AND THE PURCHASE PRICE WILL BE REFUNDED.

It is impossible to eliminate all risks associated with the use of this product. Risks of serious injury or death, including risks associated with electrocution, arcing and thermal burns, are inherent in work in and around energized electrical systems. Such risks arise from the wide variety of electrical systems and equipment to which this product may be applied, the manner of use or application, weather and environmental conditions or unknown factors, all of which are beyond the control of HD Electric Company. HD Electric Company does not agree to be an insurer of these risks. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS. HD Electric Company warrants that this product is free of defects in material and workmanship, under normal use and service, for a period of one (1) year from the date of shipment. This warranty is void in the event of misuse, alteration, faulty installation, or misapplication of the product. HD ELECTRIC COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO EVENT SHALL HD ELECTRIC COMPANY BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS EQUIPMENT FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP WHICH IS CAPABLE, WHEN PROPERLY APPLIED BY TRAINED PROFESSIONALS, OF PERFORMING IN ACCORDANCE WITH THE PRODUCT DESCRIPTION. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF HD ELECTRIC COMPANY OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING DAMAGES BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF HD ELECTRIC COMPANY OR SELLER, THE REPLACEMENT OF THE PRODUCT. HD Electric Company must have prompt notice of any claim for damage or injury so that an immediate product inspection and investigation of the incident can be made. Buyer and all users shall promptly notify HD Electric Company of any claims, whether based on contract, negligence, strict liability, or other tort or otherwise or be barred from any remedy.



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