

Operating Instructions: 200TC-1

CONTENTS: Direct Voltage Test Port Adapter, Tube Lubricant, Operating Instructions.

The 200TC-1 is a direct voltage test port adapter for all loadbreak or deadbreak connectors with a direct access port to a maximum line-to-ground voltage of 21.1kV. It is designed for use with the HD Electric Co. MARK I thru MARK IX Voltmeter/Phaser ONLY.

DANGER

All apparatus must be de-energized during installation or removal of part(s).

Do not touch or move energized products in the work area.

These instructions do not attempt to provide for every possible contingency.

Failure to follow these instructions will result in damage to the product and serious or fatal injury.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

All apparatus must be installed and operated in accordance with individual user, local and national work rules and electrical standards.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

Inspect parts for damage, rating and compatibility with mating parts.

Excess distortion of the assembled product may result in its failure.

FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ABB OFFICE.

Limited Warranty:

1. ABB Installation Products Inc. warrants that its products will be free from defects in materials or workmanship for a period of two (2) years, except for tools which are warranted separately (see warranty accompanying those products). Fisher Pierce™ products and Elastimold™ Reclosers are warranted for three years; and Joslyn™ VBT and VBU capacitor switches are warranted for four years or 40,000 operations whichever occurs first. Upon prompt notification of a warranted defect, ABB Installation Products Inc. will, at its option, repair, replace or refund the defective product.
2. In no event shall ABB Installation Products Inc. be liable for any consequential, indirect, incidental or special damages, whether under contract, warranty, tort, negligence, strict liability or otherwise. ABB Installation Products Inc. will not be liable for providing temporary power, removal, working access, installation, transportation to or from any repair facility, or reimbursement for labor costs, or for any other expenses arising out of the removal or reinstallation of its products. Liability for breach of warranty is limited to the cost of repair, replacement or refund of the warranted product only.
3. Misuse, misapplication or modification of ABB Installation Products Inc. products immediately voids all warranties.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED.

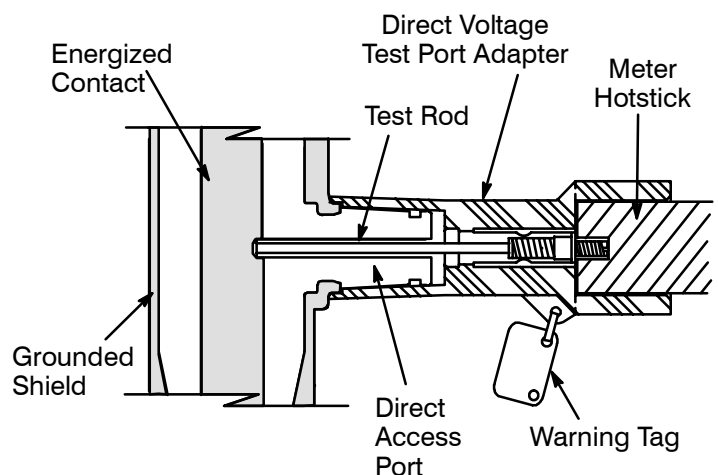
IMPORTANT

1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.

DANGER

The elbow access port provides direct access to the cable conductor. Contact with the uncovered port or insertion of objects other than the insulated cap, fluid injection cap or direct voltage test port adapter can cause serious or fatal injury. Removal of the insulated cap and installation of the fluid injection cap or direct voltage test port adapter must be done with a hotstick tool following instructions packaged with the fluid injection cap and direct voltage test port adapter.

Separable Connector with Direct Access Port



OPERATING INSTRUCTIONS

WARNING: DO NOT USE VOLTMETERS OTHER THAN THE HD Electric Co. MARK I thru MARK IX VOLTMETER/PHASER.

IMPORTANT: Read and understand the separate operating instructions for the HD Electric Co. MARK I thru MARK IX VOLTMETER/PHASER.

ACCESS PORT OPERATION

Installation or removal of the Direct Voltage Test Port Adapter can be performed while the elbow is energized. NOTE: THE ACCESS PORT MUST BE COVERED BY THE INSULATED CAP DURING LOADMAKE OR LOADBREAK OPERATIONS. DO NOT PERFORM THESE OPERATIONS WHILE THE DIRECT VOLTAGE TEST PORT ADAPTER IS IN USE.

DANGER: The Direct Voltage Test Port Adapter is not a shielded device. This direct voltage test port adapter must be considered to be live front. Direct contact can cause serious or fatal injury. If fluid has been injected into the elbow there may be considerable pressure which will release when the fluid injection cap, insulated cap, or the direct voltage test port adapter is removed. Always wear approved eye protection when installing or removing these caps.

VOLTAGE TEST ON DIRECT ACCESS PORT PRODUCTS

The ELASTIMOLD access elbow connector is equipped with a conductor access port that can be used to establish whether or not the circuit is energized.

1. Remove the access port insulated cap or fluid injection cap with a hotstick tool by rotating the cap while exerting a pull force.
2. Clean and lubricate the test rod and inside interface of the direct voltage test port adapter (200TC-1).
3. Remove brass probe at end of HD voltmeter hotstick and attach the threaded stud to the direct voltage test port adapter.
4. Using HD voltmeter hotstick tool, insert test rod of direct voltage test port adapter into elbow access port ensuring the direct voltage test port adapter is fully seated (See Figure 1).

CAUTION: The probe of the direct voltage test port adapter must make direct contact with the conductor to obtain voltage indication. If adapter is not fully seated, NO INDICATION WILL BE OBTAINED.

5. After voltage detection has been made, remove direct voltage test port adapter by exerting a pull force with HD hotstick tool. Direct voltage test port adapter must be removed from access port immediately after testing is completed.

DANGER: DO NOT allow direct voltage test port adapter to remain on access port. Direct contact with the access port or direct voltage test port adapter can cause serious or fatal injury.

6. Clean and lubricate the inside of the insulated cap and rod. Install cap using a hotstick tool.

CAUTION: The access port provides direct access to the cable conductor and must not remain uncovered. When not covered with an insulated cap the port must be considered live front.

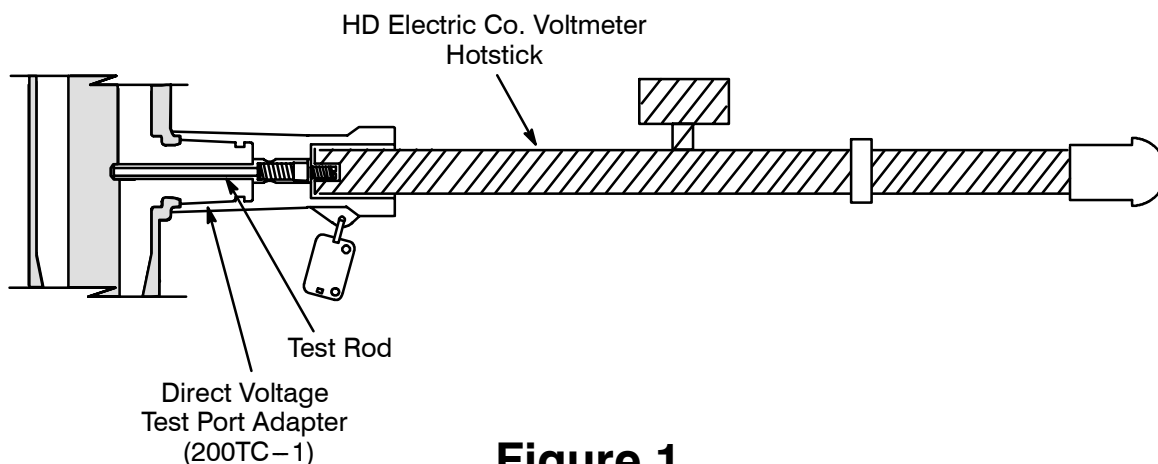


Figure 1

FULLY SEATED DIRECT VOLTAGE TEST PORT ADAPTER