Operating Instructions

for

CHANCE®

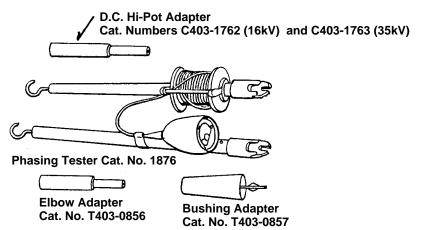
D.C. Hi-Pot Adapter

Catalog Numbers C403-1762 (16kV) and C403-1763 (35kV)

When properly used, this tool offers a simple and effective method of checking a conductor to determine if a fault is present. The adapter converts an AC source voltage to a pulsating DC voltage which is used to charge the conductor being tested to a potential level equal to the peak source voltage.

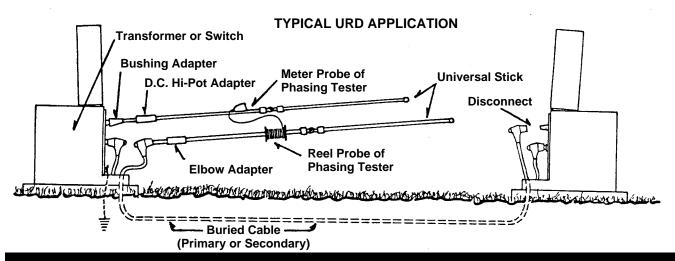
NOTICE

The DC Hi-Pot Adapter must be used only with Chance Phasing Tool, Catalog Number H1876. Use the adapter with the proper voltage rating for your system.



The D.C. Hi-Pot adapter should be installed on the end of the meter probe portion of the Phasing Tool. The meter can then be used to indicate the potential level of the conductor being tested. The end of the Hi-Pot adapter should be mated with

the proper electrical contact — a bushing adapter for URD work or the metal hook previously installed on the meter probe for overhead applications. The reel probe can be mated with an elbow adapter for URD work.



NOTICE

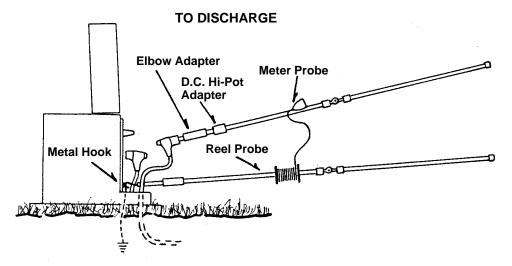
The section of conductor that is to be tested must be isolated at both ends and can not be connected to any transformers.

The D.C. voltage supplied through the Phasing Tool and Hi-Pot adapter will charge a fault-free conductor to a level of potential equal to that of the peak source voltage. A short length of conductor will charge in seconds while a very long cable may require a minute or more. If the conductor being tested contains a fault or a temporary ground has been left on the system, it can not be charged and the meter will indicate a difference in potential between the power source and the tested cable.

If the conductor is sound, the meter needle will deflect as the cable charges but will drop back to near zero when a full charge is reached.

Most conductors will continue to have a small natural discharge even though a fault is not present. The longer a conductor run is, the larger the discharge will be and the larger the meter deflection will be. If any unusually large meter reading is encountered, a thorough investigation

should be conducted before energizing the conductor. One should be especially cautious if only one phase of a threephase system shows this condition.



A WARNING

DISCHARGE CABLE AFTER EACH TEST.
FAILURE TO DO SO CAN RESULT IN INJURY TO PERSONNEL AND EQUIPMENT.

The tested cable should be properly discharged to a ground source after each test. This should be done with the tester to control the discharge current. URD applications will require that the elbow adapter be removed from the reel probe and installed on the D.C. Hi-Pot adapter as shown above. A metal hook may be installed on the reel probe. COMPLETELY DISCONNECT BOTH PROBES OF THE PHASING TOOL FROM ALL CONDUCTORS AND APPARATUS BEFORE CHANGING ANY ADAPTERS OR ATTEMPTING TO DISCHARGE CABLE. Discharge the cable by contacting it with the meter probe and contacting a reliable ground source with the reel probe.

This tool can be very beneficial in the following applications:

- a. Testing a new cable before initial energizing
- b. Testing a cable following repairs and before re-energizing
- c. To determine which span of cable contains the fault

NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.



POWER SYSTEMS, INC.

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