POLIPAR

HDF SERIES FUSE CUT-OUTS

Installation and Operation Manual

WARNING

The equipment covered by this publication must be installed,operated,and maintained by qualifed persons who are knowledgeable in the installation, operation, and maintenance of primary distribution fusing equipment along with associated hazards. A qualifed person is one who is trained and competent in:

The skills and techniques necessary to distinguish exposed live parts from non-live parts of electrical equipment. The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualifed person will be exposed.

The proper use of the special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment.

These instructions are intended only for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.

Thoroughly and carefully read this instruction sheet before installing or operating your POLIPAR Fuse Cutout.

This instruction sheet should be available for reference wherever fuse cutouts are used. Retain this instruction sheet in a location where you can easily retrieve and refer to it.

Understanding Safety-Alert Messages

There are several types of safety-alert messages which may appear throughout this instruction sheet as well as on labels and tags attached to the Type HDF Fuse Cutout. Familiarize yourself with these types of messages and the importance of the various signal words, as explained below.

DANGER

“DANGER” identifes the most serious and immediate hazards which will likely result in serious personal injury or death if instructions, including recommended precautions, are not followed.

WARNING

“WARNING” identifes hazards or unsafe practices which can result in serious personal injury or death if instructions, including recommended precautions, are not followed.

CAUTION

“CAUTION” identifes hazards or unsafe practices which can result in minor personal injury or product or property damage if instructions, including recommended precautions, are not followed.

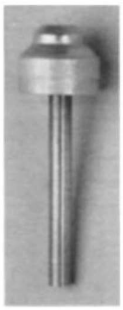
Examine the shipment for external evidence of damage as soon after receipt as possible, preferably before removal from the carrier’s conveyance. Check the bill of lading to make sure that all shipping pallets and/or cartons are present.

If there is visible loss and/or damage:
1. Notify the delivering carrier immediately.
2. Ask for a carrier inspection.
3. Note condition of shipment on all copies of the delivery receipt.
4. File a claim with the carrier.

If concealed damage is discovered:
1. Notify the delivering carrier within 15 days of receipt of shipment.
2. Ask for a carrier inspection.
3. File a claim with the carrier.

Also notify Polipar in all instance of loss and/or damage.

Installation



ARC-SHORTENING ROD
(ON SOME RATINGS)

CURRENT PATH

ONE PIECE HOOD

BIRD-PROOFED
ONE-PIECE
SOLID-PORCELAIN
INSULATOR

BACKUP SPRING
TO MAINTAIN
CONTACT PRESSURE

CONTACTS

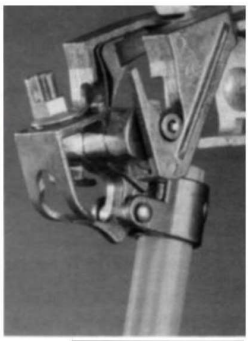
LOADBREAK TOOL

TOP TUBE CASTING
AND PULL RING

HIGH-STRENGTH FIBERGLASS FUSETUBE
COATED WITH ULTRA-VIOLET INHIBITOR

HOT STICK HOLE IN TRUNNION CASTING

LARGE NUT OR
SS NUT WITH
CLAMP TO FASTEN
FUSELINK WITH-
OUT BREAKING
STRANDS.



LOWER TUBE
CASTING

CURRENT PATH

MECHANICAL ASSIST:

FUSEHOLDER IS AVAIL-
ABLE WITH A TORSIONAL
SPRING ON TRUNNION TO
AID DROP OUT OPERATION
IN CORROSIVE ENVIRON-
MENTS.

SPRING ENSURES
PROPER TOGGLE ACTION
OF FUSELINK EJECTOR

CONTACTS
WITH STAINLESS STEEL
BACKUP SPRINGS

CAST
FOR CORROSION RESISTANCE

FUSEHOLDER TOGGLE LATCH
LIMITS TENSION OF FUSELINK

Mounting the Fuse Cut-out

To prevent damage during transport and handling, keep the Type HDF Fuse Cutout in its carton until you are ready to install it. Failure to do so can result in improper operation, arcing, or electric shock.

STEP 1 Attach the fuse cutout to a suitable mounting bracket as illustrated in Figure 1.

NOTE: A mounting bracket, suitable for crossarm, pole, or wall mounting, is furnished only if so specifed on order by adding suffix "-B" or "-C" to catalog number of fuse cutout.

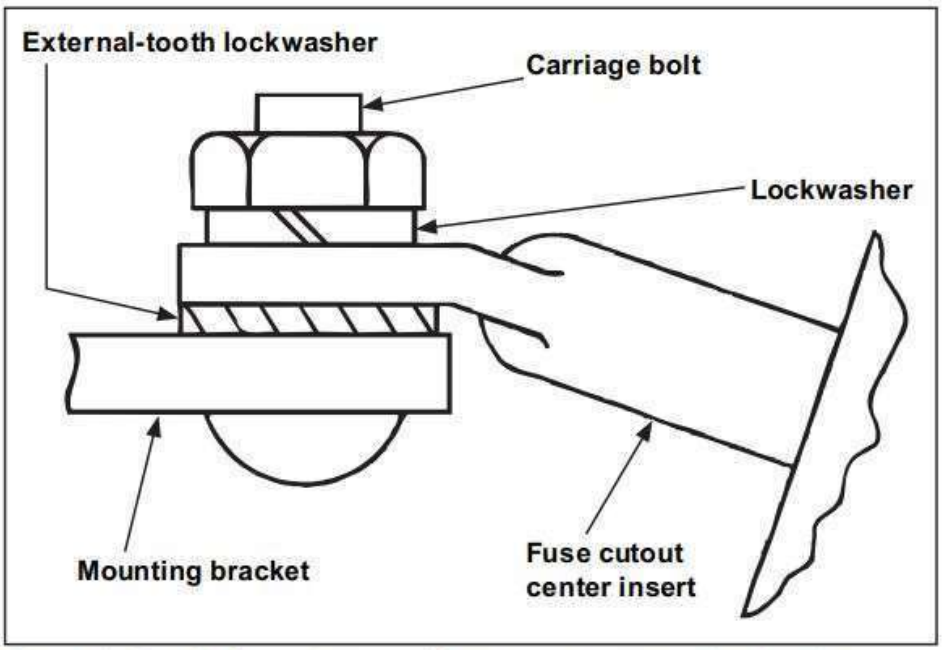


Figure 1. Detail of attachment of fuse cutout to mounting bracket.

STEP 2 Mount the fuse cutout on the mounting bracket, as shown in Figure 1, with the carriage bolt nut snug but loose enough for pivot adjustment. Note the placement of the external-tooth lockwasher between the fuse cutout center insert and the mounting bracket. See Figure 1.

STEP 3 Pivot the fuse cutout to a position that will provide maximum ease of operation and securely tighten the carriage bolt nut.

STEP 4 Make electrical connections. Be sure to wire-brush any aluminum conductors and apply a coating of oxidation inhibitor before inserting such conductors in the fuse cutout connectors. Tighten connector hardware to 20ft. lbs.

Installing the Fuse Link

STEP 1 Hand tighten the contact button on the fuse link and carefully straighten the cable.

STEP 2 Remove the cap from the upper ferrule of the fuse-tube assembly. Slide the fuse link, cable end first, into the top of the fuse-tube assembly and retrieve it at the lower end.

STEP 3 Replace the fuse-tube cap on the fuse-tube upper ferrule and tighten the cap securely using a wrench.Loosenthe cable clamping nut on the trunnion. See Figure 2a.

STEP 4 Rotate the flipper fully about its pivot until it reaches its stop (firm resistance is felt). See Figure 2a.
Hold the flipper in this position, and feed the cable through the flipper channel and around the threaded stud in a clockwise direction as shown in Figure 2b.
Maintain tension on the fuse-link cable and firmly tighten the cable clamping nut, using a wrench. Do not overtighten the cable clamping nut.

STEP 5 Clip excess cable to within ½ inch (13 mm) of the nut.

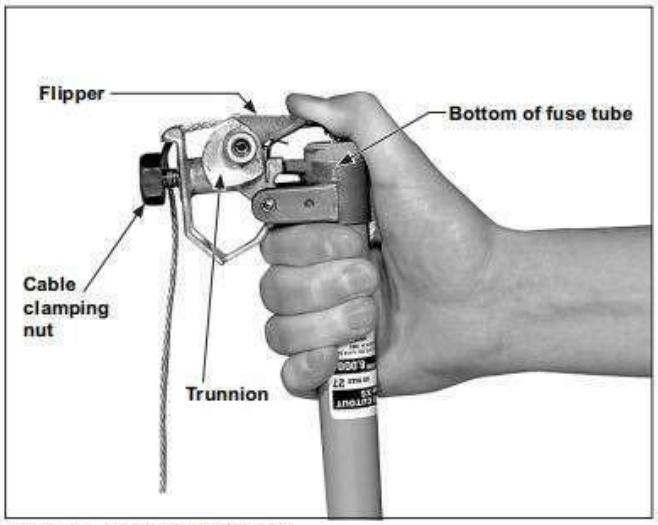


Figure 2a. Flipper fully pivoted.

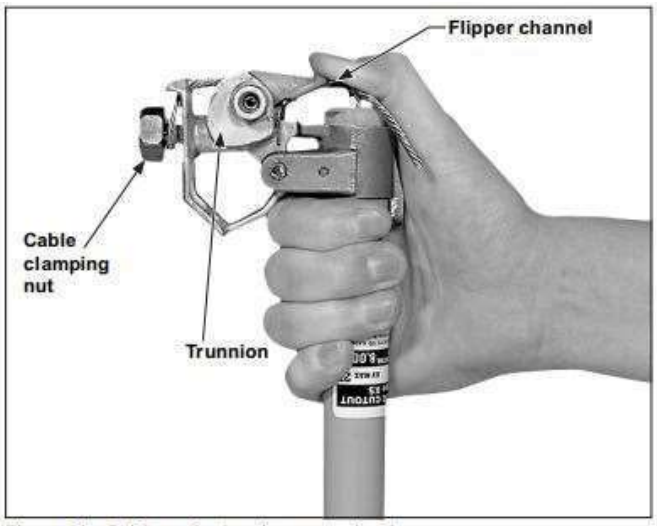


Figure 2b. Cable under tension around nut.