CAUTION: The Cooper Power Systems Kearney HX Cutout is designed to be operated in accordance with normal safety operating procedures. These instructions are not intended to supersede or replace existing safety and operating procedures. The HX cutout should be installed and serviced only by personnel knowledgeable of good safety practices and fully trained on the installation and application of HX cutout fuses. Refer to appropriate ANSI® or other industry standards for guidelines in operating and maintaining this equipment. These standards should be followed in addition to this instruction and instruction for fuse holders.

PRODUCT INFORMATION
Cooper Power Systems Kearney HX Cutouts can be quickly and economically adapted to double current rating or higher interrupting ratings as load and system capacity increases dictate. Simple blade changeout makes 300 A disconnects out of HX design. Fuseholders and blades are only stock items required for this broad versatility.
SAFETY FOR LIFE

Cooper Power Systems products meet or exceed all applicable industry standards relating to product safety. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Cooper Power Systems employees involved in product design, manufacture, marketing, and service.

We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high-voltage lines and equipment and support our “Safety For Life” mission.

SAFETY INFORMATION

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate, and service it.

A competent technician has these qualifications:

■ Is thoroughly familiar with these instructions.
■ Is trained in industry-accepted high- and low-voltage safe operating practices and procedures.
■ Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.
■ Is trained in the care and use of protective equipment such as flash clothing, safety glasses, face shield, hard hat, rubber gloves, hotstick, etc.

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

Safety Instructions

Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual.

DANGER: Hazardous voltage. Contact with high voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high- and low-voltage lines and equipment.

WARNING: Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage.

WARNING: This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply may result in death, severe personal injury and equipment damage.

WARNING: Power distribution equipment must be selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install or maintain this equipment can result in death, severe personal injury, and equipment damage.

Hazard Statement Definitions

This manual may contain four types of hazard statements:

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only.
MOUNTING KEARNEY™ CUTOUT OR DISCONNECT

Step 1
INSPECT PORCELAIN
- Before mounting the cutout, make sure the porcelain is not cracked or chipped.
- Do not install a cutout if any hardware is loose, bent, distorted or out of alignment.

Step 2
MOUNT CUTOUT
- Mount the cutout on a suitable mounting bracket.
- Position the lock washers as shown in Figure 2.

Note: DO NOT mount this cutout in vaults or other enclosed areas. Ionized gases are generated during fault clearing operations and may cause electrical flash in enclosed spaces.

Step 3
POSITION CUTOUT
- Pivot the cutout in a position that will provide ease of operation, maximum electrical clearance and venting clearance before securely tightening the carriage bolt nut.

INSTALLING FUSE HOLDER OR DISCONNECT BLADE

CAUTION: Only qualified personnel should operate and inspect an open cutout. Such personnel must observe company safety procedures and wear protective equipment. Operator should be positioned away from the exhaust path when closing cutout.

Step 1
INSERT SWITCHSTICK HOOK
- Insert the hook of the switchstick into the lifting loop. The fuse holder or blade will hang on the hook in a position to be installed.

Step 2
GUIDE FUSE HOLDER
- Guide the fuse holder lower casting trunnion into the cutout hinge and disengage switchstick. Figure 3.

Step 3
CLOSE FUSE HOLDER
- Place the hook of switchstick under the pull ring and swing the fuse holder to a 45° angle from the closed position.
- Then with head down and to one side of vent exhaust pattern, quickly and with a vigorous thrust on switchstick, push fuse holder to a closed position. Figure 4.
Step 4

REMOVE SWITCHSTICK

- Carefully remove switchstick from fuse holder to avoid pulling fuse holder open.

**CAUTION:** Fuse holder should not be left hanging in the open position, as it may retain water.

CUTOUT OPENING – BREAKING LOADS

**WARNING:** Use proper load breaking devices to open energized cutouts. Injury and damage to cutout is possible if load-breaking devices are not used. When replacing damaged expendable CAPS they should be replaced with like expendable caps.

Type "HX" cutout may be equipped with a permanent outdoor interrupter for breaking loads. Instructions for operating the "HX-CB" loadbreak are shown on KS1.1-01-1, which is supplied with the loadbreak unit.

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Loadbreaking Device

The cutouts may be equipped with "hooks" for use with an approved loadbreak tool or other device designed for opening cutouts under load. Refer to the instructions with the device for their operation.

CUTOUT-ARRESTERS

Kearney cutout-arrester combinations consist of a Cooper distribution arrester and Kearney HX cutout mounted on a common L bracket to be installed as a completed assembly; Unigap Surge Arrester with ground lead disconnect in combination with Type "HX" cutouts. (See Figure 6.)

- During shipping and rough handling the units may get out of adjustment.
- Before mounting or during mounting, the arrester should be in same plane as the cutout with all nuts and bolts tight.

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Fuse Link Breaking

The 100 ampere Type "HX" cutout may be equipped with a linkbreak fuse holder and if so, these instructions apply.

- Fuse links up to 100 ampere rating can be broken.
- Place the hook of switchstick on linkbreak arm.
- Pull sharply downward with a fast rapid motion. See Figure 5.

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INSTALLING FUSE LINKS IN 100 A FUSEHOLDER

Step 1.

REMOVE CAP/INSTALL LINK

- Remove cap and operated link. Replace link with appropriate rating in fuse tube.
- Make sure the contact button is secured on the fuse link and carefully straighten the fuse cable.
Step 2.
REPLACE CAP
■ Slide the straightened fuse link cable end into the fuse holder, replace and tighten the cap.

Step 3.
LOOSEN THUMB SCREW AND DEPRESS FLIPPER
■ Loosen thumb screw and remove old cable. Install fuse cable under thumbscrew washer.
■ Press flipper downward on the lower tube casting. Hold in this position for step 4. See Figure 7.

Step 4.
SECURE FUSE LINK
■ Dress fuse link cable around post on flipper and then around thumbscrew in a clockwise direction.
■ Maintain tension on fuse link cable and with flipper firmly depressed, cross the fuse cable over itself and tighten the thumbscrew. See Figure 8.

Step 5.
CLIP EXCESS CABLE
■ Clip excess fuse cable to within approximately 1/2" of the thumbscrew washer.

INSTALLING FUSE LINKS IN 200 A FUSEHOLDER

CAUTION: Use only the ampere size and types of fuse links specified by your company.

Step 1.
CHECK FUSE LINK
■ Make sure the contact button is secured on the fuse link and carefully straighten the fuse cable.

Step 2.
CLAMP BOLT ASSEMBLY
■ Loosen the clamping bolt to raise the link clamp. Do not try to remove clamping bolt.
**Step 3.**

**REMOVE CAP**
- Remove the cap from fuse holder and slide the straightened fuse link cable into the fuse tube and through the fuse link clamp terminal, replace the cap. See Figure 9.

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**CAUTION:** Do not use a 100 ampere or smaller fuse link in 200 ampere fuse holders. Such application could lead to failure of the cutout to clear fault currents. Replace operated or partially operated expendable caps with new expendable caps.

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**Step 4.**

**SECURE FUSE LINK**
- With link clamp held down over the tube bore, pull the end of the fuse cable tightly and tighten clamping bolt. See Figure 10.

**Step 5.**

**CLIP EXCESS CABLE**
- Clip excess fuse cable to within approximately 1/2" of the box terminal.

**MAINTENANCE**
Refer to appropriate ANSI® or other industry standards for maintenance.