

Installation Instructions

MCLF – Molded Current Limiting Fuse

The Elastimold Molded Current Limiting Fuses (MCLF) are 6 thru 100 Amp rated fuses on 8.7kV/15kV grounded wye (10kV max design) and 6 thru 100 Amp rated fuses on 15kV/25kV grounded wye (17.2kV max design) voltage systems. The MCLF provides full range fault current protection. MCLF fuses are maintenance free, completely sealed and submersible. Designs are deadfront using molded rubber to insulate, shield and eliminate exposed live parts. Construction is modular with a center replaceable fuse section and interchangeable end fittings for 200/600 Amp elbow connections.

DANGER

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

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products.

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

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

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.

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

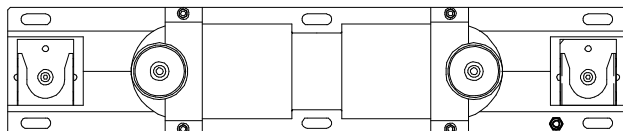
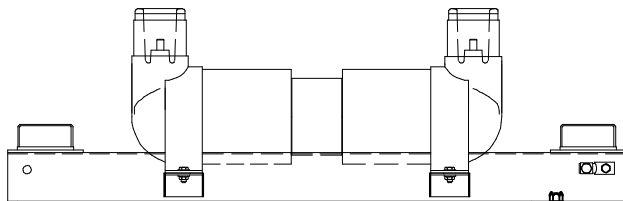
If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

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

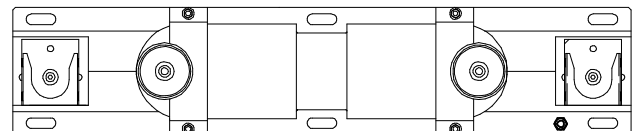
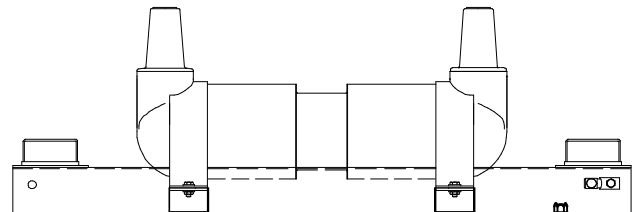
IMPORTANT

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.

**MODEL 22 WITH 200 AMP
DEEPWELL BUSHING END FITTINGS**

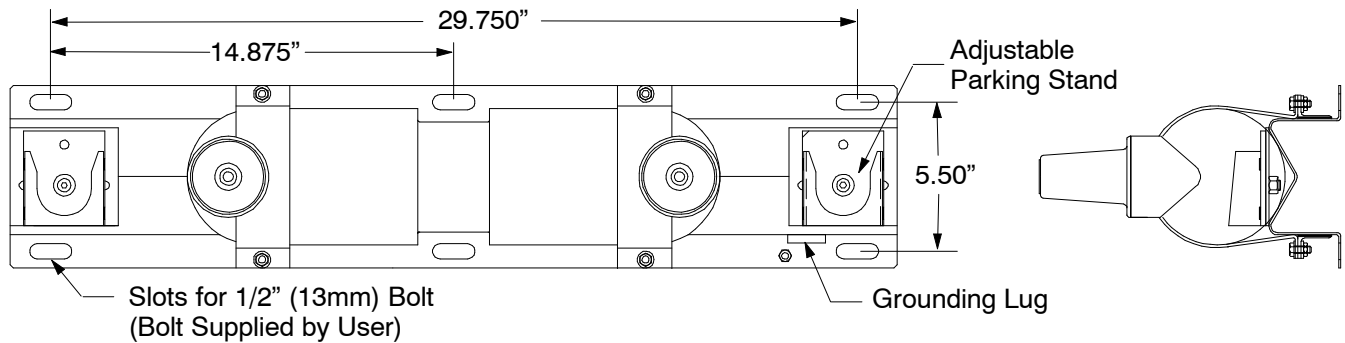


**MODEL 66 WITH 600 AMP
BUSHING END FITTINGS**



Mounting Instructions

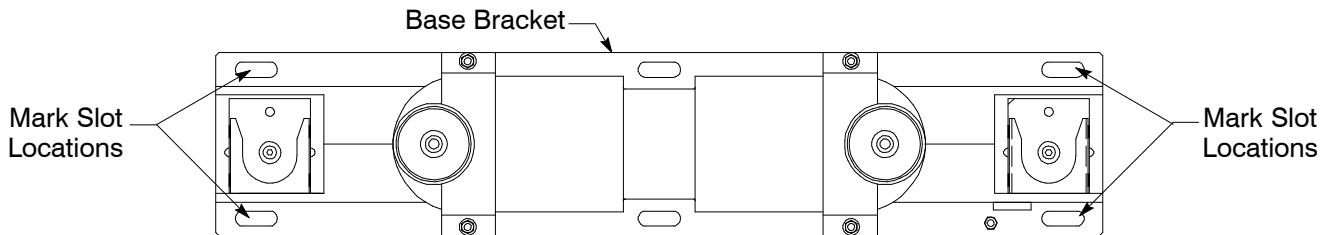
1. Determine the desired location of the molded current limiting fuse assembly and mark all slot locations on the surface where the bracket is to be mounted.



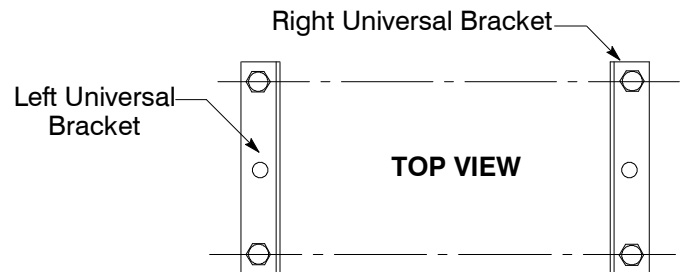
2. Fasten securely to flat surface to insure no movement during operation. Make sure parking stand is in an upright position. For vertical mounting, parking stands can be rotated by loosening the center bolt.
3. A grounding lug is provided on the bracket to ground the conductive jacket of the fuse assembly. It accommodates a No. 2 solid to 1/0 stranded. An optional welded nut on the base bracket may serve as a ground terminal. If the fuse is not mounted with this bracket other means of grounding the fuse shield is required.

Universal Mount (Optional)

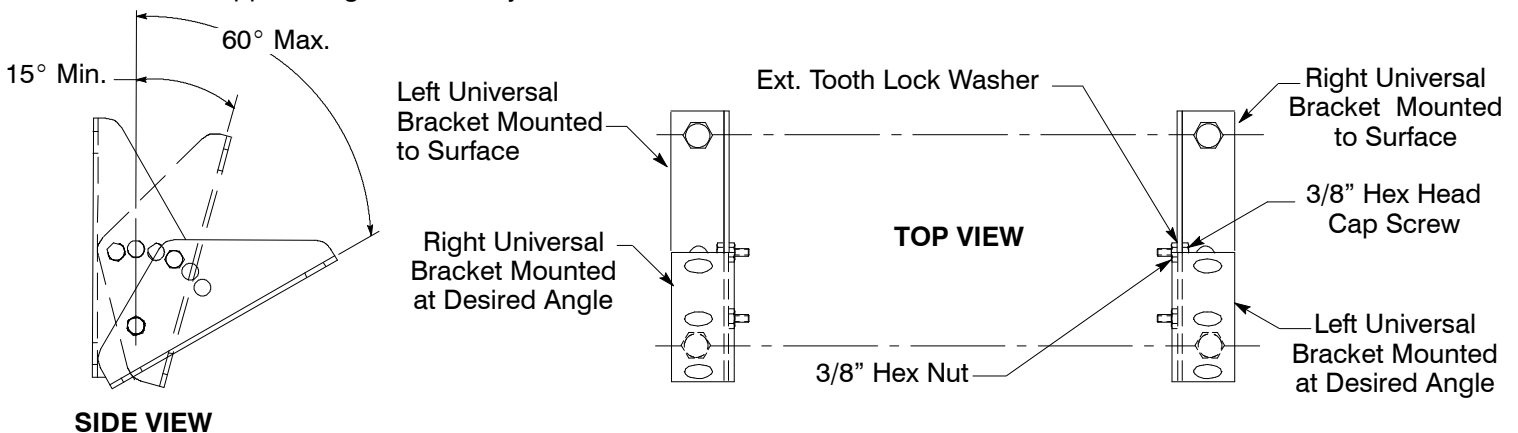
1. Determine the desired location of the molded fuse assembly. Using the base bracket as a template, place it on the surface that the molded fuse is to be mounted and mark slot locations.



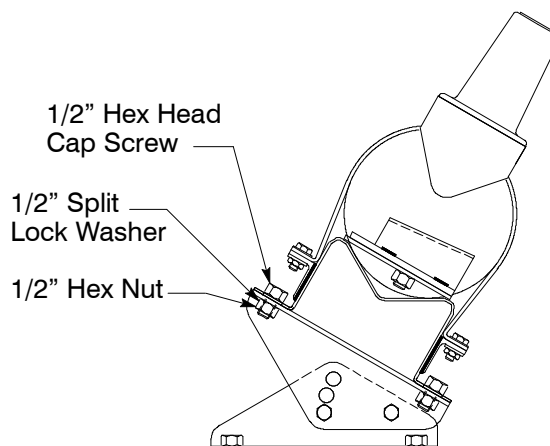
2. Attach the right and left universal brackets to flat surface using suitable fasteners and tighten securely to ensure no movement during operation.



3. Mount the remaining two (2) universal brackets left to right and right to left at desired angle 15°, 30°, 45°, or 60° using the hardware supplied. Tighten securely.



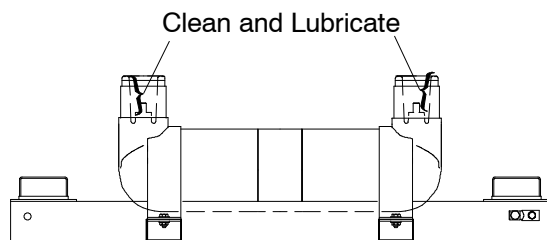
4. Attach the molded fuse assembly to the universal brackets using the hardware supplied. Tighten securely. Be sure parking stand is in upright position.



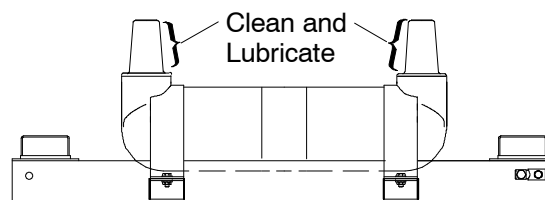
5. The base bracket assembly and the molded fuse's black conductive jacket must be grounded. A grounding lug is provided on the base bracket for this purpose. It accommodates wire sizes of No. 2 solid to 1/0 stranded. An optional welded nut on the base bracket may also serve as a ground terminal.

Operating Instructions

1. Remove all protective caps and clean the operating interfaces. Lubricate each interface with Elastimold approved lubricants. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product or its mating product(s).

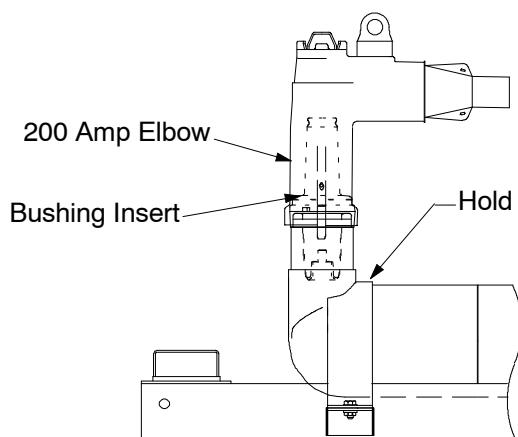


**MODEL 22 WITH 200 AMP
DEEPWELL BUSHING END FITTINGS**

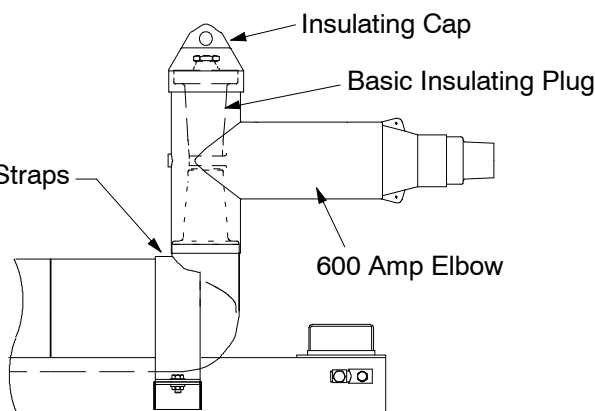


**MODEL 66 WITH 600 AMP
BUSHING END FITTINGS**

2. Install desired Elastimold products to molded fuse. Follow operating instructions supplied with these products.



**MODEL 22 WITH 200 AMP
DEEPWELL BUSHING END FITTING**

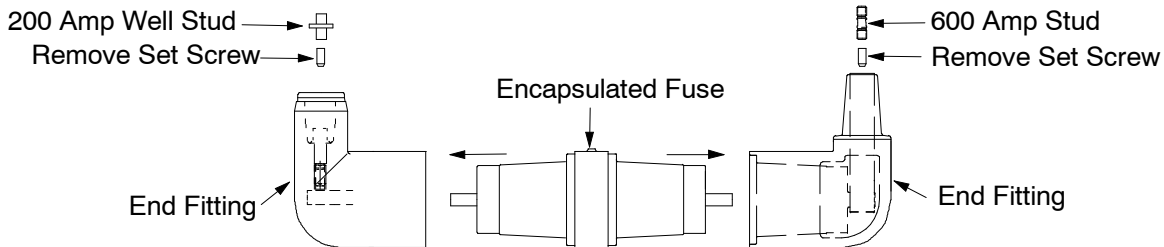


**MODEL 66 WITH 600 AMP
BUSHING END FITTINGS**

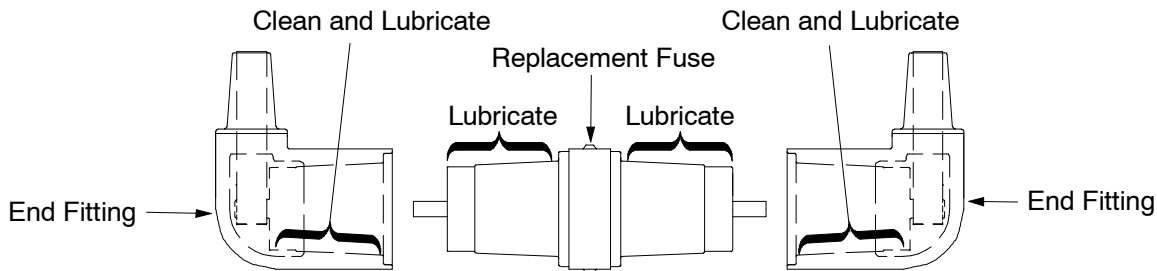
3. Long cable length must be supported to prevent excess forces on the fuse.

Fuse Replacement

1. Ensure the system is de-energized. Disconnect and remove the cable connectors from each end fitting.
2. Remove molded current limiting fuse assembly from the bracket by removing the hold down straps.
3. Remove well studs with a 9/16" socket wrench and the 600 amp stud well with a 1/2" open end wrench from end fitting. **DO NOT DISCARD.**
4. Using the supplied socket hex tool, unthread and **completely** remove the set screw from each end fitting. **DO NOT DISCARD.** Separate the end fittings from the encapsulated fuse with a pulling/twisting motion (a strap wrench may provide assistance in extreme cases).



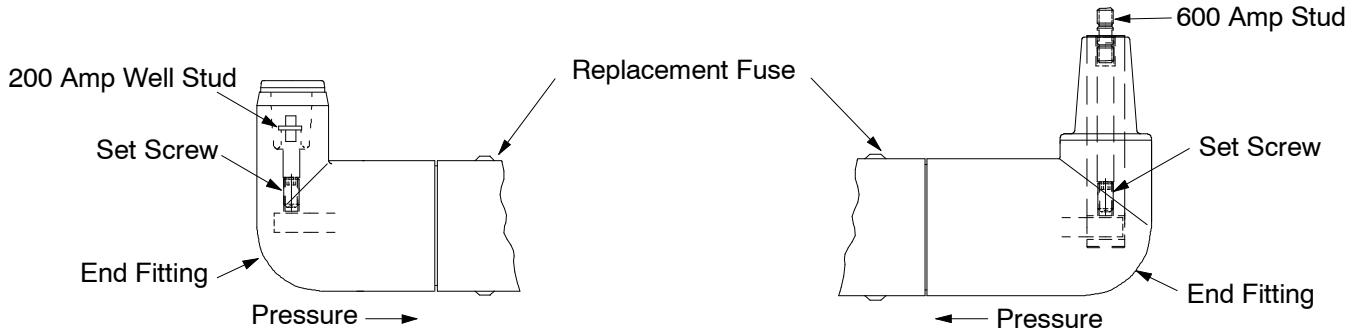
5. Clean and lubricate end fitting interfaces with Elastimold supplied lubricant. Lubricate the replacement fuse interfaces.



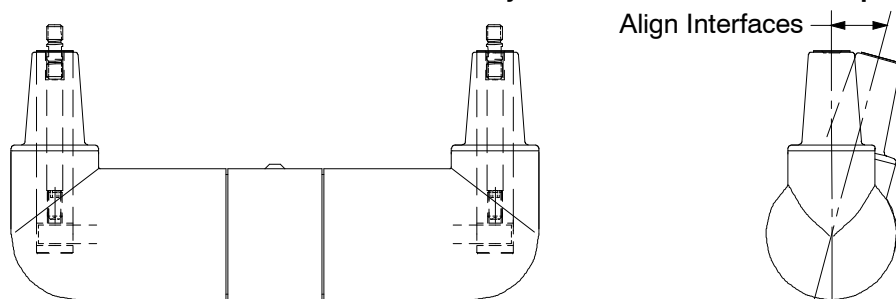
6. Assemble one end fitting onto the fuse until the end fitting is bottomed (as shown). While applying pressure on end fitting to prevent it from backing off the fuse, assemble the set screw and torque using the supplied 3/8" drive socket hex tool with a torque wrench. For both 200 Amp well fitting and the 600 Amp end fitting torque to 15 ft/lbs. Reassemble the 200 amp well stud and torque to 10 ft/lbs. Reassemble the 600 amp stud and torque to 40 ft/lbs. **CAUTION: Proper torque is required for electrical connection and mechanical stability. Insufficient or excess torque can result in failure.**

200 AMP END FITTING

600 AMP END FITTING



7. Assemble remaining end fitting. Prior to torquing set screw, align the interfaces. Once aligned torque the set screw to 15 ft/lbs. For the 200 Amp or 600 Amp end fitting. **DO NOT ATTEMPT TO REALIGN AFTER TORQUING.** Reassemble the 200 amp well stud and torque to 10 ft/lbs. or the 600 amp stud and torque to 40 ft/lbs. **CAUTION: Proper torque is required for electrical connection and mechanical stability. Insufficient or excess torque can result in failure.**



8. Reassemble and secure fuse assembly to bracket. Clean and lubricate connecting interfaces and reassemble mating products.