

Fuse Equipment

X-Limiter™ Hinge-Mount for S&C SM®-20 Fuse or X-Limiter™ Padgear-Mount for S&C SME®-20 Fuse Mounting Assembly and Installation Instructions

Service Information
S240-84-3

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CAUTION: The Cooper Power Systems X-Limiter Hinge-Mount fuse is designed to be installed in accordance with normal safe operating procedures. These instructions are not intended to supersede or replace existing safety and operating procedures. **READ ALL THE INSTRUCTIONS BEFORE INSTALLING THE X-LIMITER HINGE-MOUNT FUSE OR X-LIMITER PADGEAR MOUNT FUSE.** The Hinge-Mount fuse or Padgear-Mount fuse should be installed and serviced only by personnel familiar with good safety practice and the handling of high-voltage electrical equipment.

GENERAL

The X-Limiter Hinge-Mount or X-Limiter Padgear-Mount, Full Range current-limiting fuse has been adapted to fit the S&C SM-20 indoor cutout mounting or S&C SME-20 cutout mounting. The use of the existing S&C upper and lower end fittings, allow for complete interchangeability with fuses mounted in S&C SM-20 cutouts or S&C SME-20 cutouts.

RETROFIT INSTALLATION OF X-LIMITER HINGE-MOUNT FUSE OR X-LIMITER PADGEAR-MOUNT FUSE

Initial retrofit installation includes removing the existing fuse and replacing it with the X-Limiter Hinge-Mount current-limiting fuse or X-Limiter Padgear-Mount current-limiting fuse in accordance with the following steps.

Removal of Fuse in the S&C SM-20 Cutout or SME-20 Cutout

1. Open the fuse compartment door(s) and secure with the door holder. If front barriers are provided, remove them at this time.

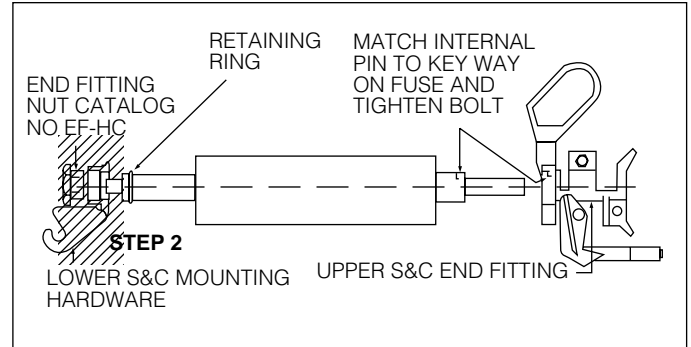


Figure 1. X-Limiter Hinge-Mount fuse for S&C SM-20 mounting.

2. Remove SM-20 expulsion fuse or SMU-20 expulsion fuse, in accordance with the S&C operating procedures.
3. Remove the upper and lower end fittings of the S&C SM-20 expulsion fuse or SMU-20 expulsion fuse. Both end fittings are needed with the X-Limiter Hinge-Mount fuse or X-Limiter Padgear-Mount fuse.

Assembly of X-Limiter Hinge-Mount Current-Limiting Fuse or X-Limiter Padgear-Mount Current-Limiting Fuse

1. Slip the S&C upper end fitting onto the top of the X-Limiter Hinge-Mount fuse or Padgear-Mount fuse and align it so the pin in the fitting slides into the key way on the fuse.
2. Slip the S&C bottom end fitting onto the bottom of the fuse aligning the pin of the fuse with the key way on the fitting.

NOTE: Retaining Ring will need to be moved to location shown in Fig. 2 for SME replacement.

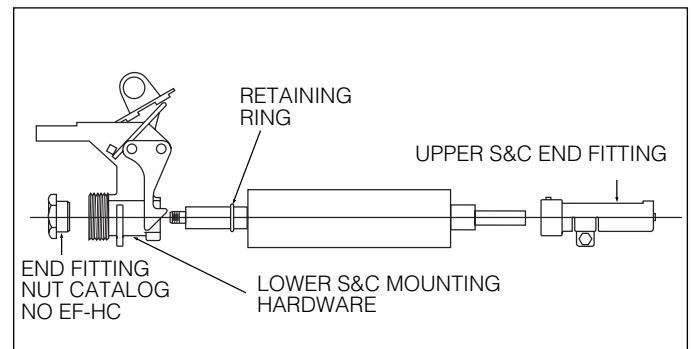



Figure 2. X-Limiter Padgear-Mount fuse for S&C SME-20 mounting.

These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for the user's purpose, please contact your Cooper Power Systems sales engineer.

3. Lay the fuse assembly on a flat surface (as shown on Figure 1 or Figure 2). Make sure that the S&C fittings are touching the smooth part surface. Tighten the top end fitting bolt. Then tighten the end fitting nut (Cat.No. EF-HC) onto the bottom fitting. This should assure a good alignment between the top and bottom end fittings.

 **CAUTION:** If alignment is not correct, loosen top end fitting bolt to re-align. **Turning end fittings with them tightened to fuse will cause internal fuse damage.**

Installation

Install the X-Limiter Hinge-Mount in the S&C SM-20 mounting or X-Limiter Padgear-Mount in the S&C SME-20 in accordance with the S&C operating procedures.

FUSE REPLACEMENT

When the X-Limiter Hinge-Mount or X-Limiter Padgear-Mount fuse clears a fault, the actuary pin causes the fuse to drop open.

Removal of X-Limiter Hinge-Mount Fuse or X-Limiter Padgear-Mount Fuse

For removal and installation of a new X-Limiter Hinge-Mount current-limiting fuse or X-Limiter Padmount current-limiting fuse gear follow the same steps outlined on page 1, "Retrofit Installation of X-Limiter Hinge-Mount Fuse or X-Limiter Padgear-Mount Fuse".

Assembly of X-Limiter Hinge-Mount Current-Limiting Fuse or X-Limiter Padgear-Mount Current-Limiting Fuse

1. On the bottom hinge or padgear assembly, remove the end fitting nut holding the bottom end fitting to the fuse body. Retain this hardware for reassembly.
2. Follow the same assembly procedures as described in "Assembly of X-Limiter Hinge-Mount Current-Limiting Fuse or X-Limiter Padgear-Mount Current-Limiting Fuse".

Installation

For installation follow the same steps outlined above in "Retrofit Installation of X-Limiter Hinge-Mount Fuse or X-Limiter Padgear-Mount Fuse" section.

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