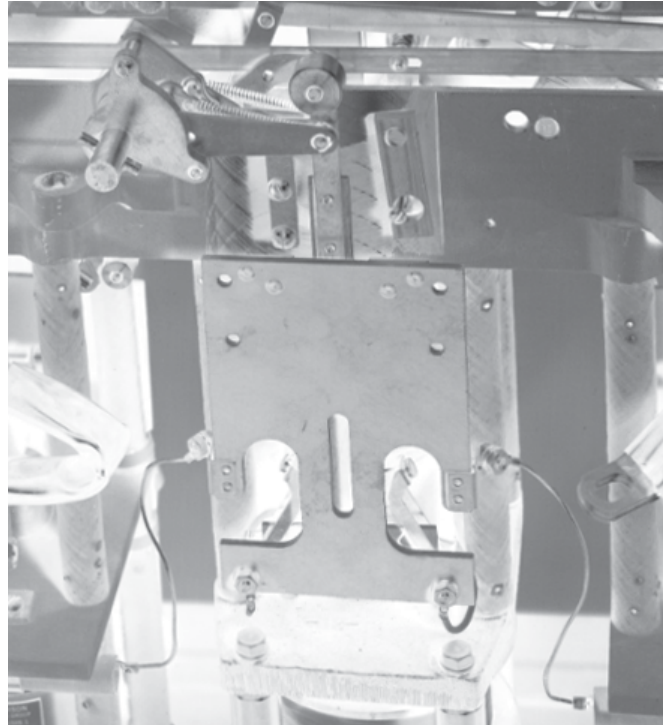


Type R, RE, W, WE reclosers closing solenoid contactor replacement kit KA852R installation instructions



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Safety for life



Eaton meets or exceeds all applicable industry standards relating to product safety in its Cooper Power™ series products. 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 Eaton 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 arc flash clothing, safety glasses, face shield, hard hat, rubber gloves, clampstick, 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.

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.

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

G103.3

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.

G101.0

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 can result in death, severe personal injury and equipment damage.

G102.1

WARNING

Power distribution and transmission equipment must be properly 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 power distribution and transmission equipment can result in death, severe personal injury, and equipment damage.

G122.3

Product information

Introduction

Service Information S280-40-11 Types R, RE, W, WE Closing Solenoid Contactor Kit KA852R Installation Instructions is used for contactor replacement in any of Eaton's Cooper Power™ series Type RE, W, or WE recloser or any Type R recloser after serial number 3733.

Read this manual first

Read and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment.

Additional information

These instructions cannot cover all details or variations in the equipment, procedures, or process described nor provide directions for meeting every possible contingency during installation, operation, or maintenance. For additional information, contact your Eaton representative.

Acceptance and initial inspection

This product is in good condition at the factory and when accepted by the carrier for shipment.

Upon receipt, inspect the carton for signs of damage. Unpack the kit and inspect it thoroughly for damage incurred during shipment. If damage is discovered, file a claim with the carrier immediately.

Handling and storage

Be careful during handling and storage of this kit to minimize the possibility of damage. If the kit is to be stored for any length of time prior to installation, provide a clean, dry storage area.

Quality standards

The Quality System at the Eaton, Distribution Switchgear plant is certified to the following standards:

ISO 9001 standard

CAN/CSA ISO 9001

BE EN ISO 9001

ANSI/ASQC Q9001

Table 1. Replacement Kit KA852R Parts List

Item	Part #	Description	Qty.
1	970901188000M	Retaining Ring Type C .188	3
2	970901250000M	Retaining Ring Type C .250	5
3	R002401	Pin	1
4	RA00430003	Solenoid Contact Assembly	1

DANGER

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

G103.3

WARNING

Hazardous voltage. Always use a hotstick when working with this equipment. Failure to do so could result in contact with high voltage, which will cause death or severe personal injury.

G108.1

Installation

Refer to Figure 1 and the appropriate service manual.

- Service Information S280-30-2 Types R Three-Phase Maintenance Instructions, Serial Number 3733 and above
- Service Information S280-30-3 Types W Three-Phase Maintenance Instructions
- Service Information S280-30-8 Types RX and W (serial number 7334 and above) Three-Phase Maintenance Instructions
- Service Information S280-40-3 Types RE Three-Phase Maintenance Instructions
- Service Information S280-40-4 Types WE Three-Phase Maintenance Instructions
- Service Information S280-40-7 Types RXE and WE Maintenance Instructions

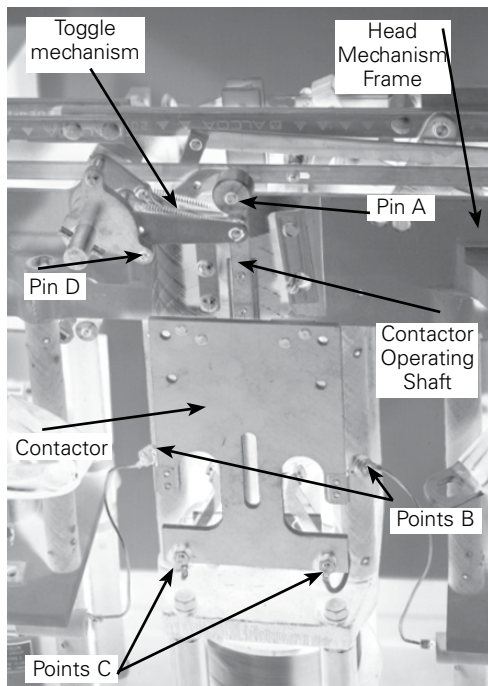


Figure 1. Closing solenoid contactor.

WARNING

Hazardous Voltage. Do not rely on the open position of the yellow operating handle or the contact position indicator; it does not ensure that the line has been de-energized. Always establish a visible disconnect. Failure to follow proper safety practices can result in contact with high voltage, which will cause death or severe personal injury.

G114.1

CAUTION

Equipment damage. Do not attempt to trip a recloser by operating the manual closing tool from CLOSED to OPEN. This will result in damage to the recloser operating mechanism.

T228.0

Refer to Table 1 for part identification.

1. Bypass, trip, and de-energize the recloser. Untank the recloser at the cover bolts.
2. Unhook springs connected to pin **A**.
3. Remove three C-rings from pin **A** to release contactor operating shaft from toggle mechanism.
4. Disconnect leads at points **B**.
5. Disconnect leads at points **C**. Replace washers and nuts to prevent contacts from falling out.
6. Remove three hex-head cap screws that secure the contactor. These are located on the underside of the head mechanism frame.
7. Mount new solenoid contactor assembly, **Item 4**, by reversing procedure outlined in steps 1, 2, and 3. Use **Item 2**: .250 retaining ring, to secure pin **A**. Be sure leads connected at points **B** and **C** clear insulated stringers or any grounded parts by at least 13 mm (0.5 in).
8. Compare toggle mechanism of the recloser to the one pictured in Figure 1. Examine pin **D**.
 - A. If pin **D** is assembled without a spacer, no further work is required (discard **Item 1**). Proceed to step 10.
 - B. If pin **D** is assembled with a spacer, proceed with step 9.
9. Remove C-ring to release pin **D**. Take out the old pin **D**, discard the old spacer, and slip on **Item 3**: new pin **D**. Secure the pin with **Item 1**: .188 retaining ring.
10. Retank and return recloser to service.

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