CBSArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-201

For Square D Enclosed Circuit Breaker

NEMA 12/3R, Series E3

100-600A (Includes LEL, LXL, LXIL, LCL, & LIL housed in LX600AWK)
and 300-1000A (Includes MAL, MHL, & MXL housed in MA1000AWK)

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WHAT STANDS
BETWEEN YOU AND
ARC-FLASH DANGER?

WE DO.

More Products by CBS ArcSafe®

RRS-1 – *Universal Remote Racking System (Rotary)*

The CBS ArcSafe® RRS-1 is a universal remote racking system capable of remotely installing and removing rotary style draw out circuit breakers without requiring any modification to the existing switchgear. Operation of the simple to use RRS-1 is quite intuitive and requires only minimal setup. When used properly, the RRS-1 allows technicians to remain outside of the arc flash boundary during the potentially dangerous racking operation.

RRS-2 – *Universal Remote Racking System (Non-Rotary)*

The CBS ArcSafe® RRS-2 is a universal remote racking system capable of remotely installing and removing non-rotary style draw out circuit breakers without requiring any modification to the existing switchgear. Operation of the simple to use RRS-2 is quite intuitive and requires only minimal setup. When used properly, the RRS-2 allows technicians to remain outside of the arc flash boundary during the potentially hazardous racking operation.

RRS-3 – *Application Specific Remote Racking System (Rotary And Non-Rotary)*

The CBS ArcSafe® RRS-3 product line is made up of various application specific remote breaker racking devices. Each standalone system allows service personnel to remotely install and remove a particular type of circuit breaker safely while stationed safely outside of the arc flash boundary during the potentially dangerous operation. The lightweight and compact design of the RRS-3 systems makes them ideal for hard to access areas where space is at a premium.

RRS-4 – *PLC Based Universal Remote Racking System (Rotary)*

The CBS ArcSafe® RRS-4 universal remote racking system is an updated PLC based version of the best selling RRS-1. The dual mode, source programmable, PLC based control system offers two different operating modes to choose from based on user preference or the application. The RRS-4 is capable of remotely installing and removing rotary style draw out circuit breakers without requiring any modification to the existing switchgear, allowing users to remain outside of the arc flash boundary during the potentially hazardous racking operation.

RSA – *Remote Switch Actuator*

The CBS ArcSafe® Remote Switch Actuator (RSA) product line is made up of various application specific remote operating devices. These products allow service personnel to remotely perform all aspects of an operation for a particular type of electrical equipment from outside the arc flash boundary – reducing or eliminating the possibility of serious injury or death resulting from an arc flash.

RSO – *Remote Switch Operator*

During a remote operation, the CBS ArcSafe® RSO functions as both the power supply and user interface for the device being remotely operated by the user. When paired with an applicable CBS ArcSafe® device, this portable standalone system allows service personnel to remotely perform a racking or switching procedure from outside the arc flash boundary – reducing or eliminating the possibility of injury or death resulting from an arc flash

1 Installation

1. Ensure that the breaker is free from obstructions that may interfere with proper installation of the RSA

2. Position the actuator on the RSA to match the breaker state, prior to installation. See the Operation section on how to operate the RSA.
   a. If the breaker is ON and needs to be turned OFF, then the actuator needs to be fully extended

b. If the breaker is OFF and needs to be turned ON, then the actuator needs to be fully retracted.
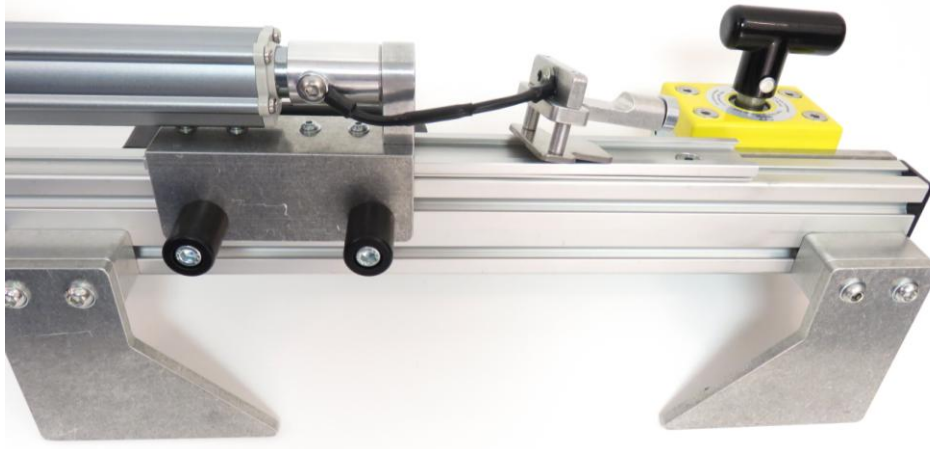
c. If the breaker is in the TRIPPED position or needs to be RESET, then manually jog the RSA actuator to fit over the switch on the breaker.

3. Position the RSA on the breaker, ensuring that the locator on the RSA is flush against the switch escutcheon, and the breaker switch is located between the forks on the RSA.
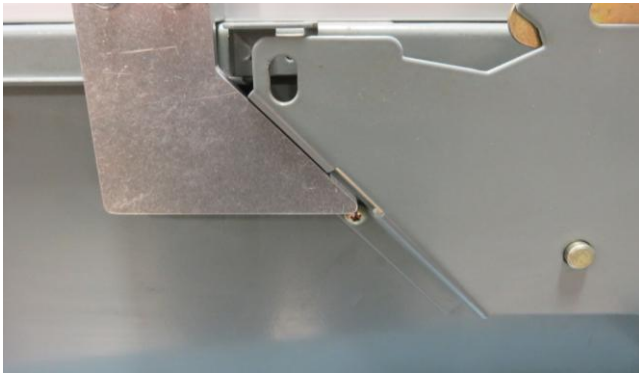
4. Install the magnetic interlock defeat over the switch handle, ensuring that the magnet catches the interlock lever and hold it up, as indicated below.
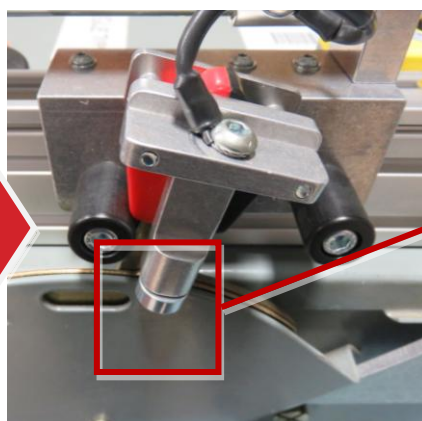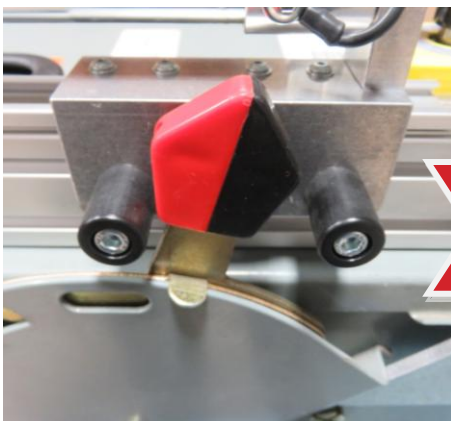
5. Finally, check that the magnets are fully seated against the breaker door and then turn the handles of the twist-lock magnets 180° to lock the RSA in place.

The RSA is now ready for operation.

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2 Operation

1. Ensure that the RSA is properly installed. See the Installation section for detailed instructions.
2. Plug the RSO-I AR into the motor control box.
3. Exit the arc flash boundary
4. Turn the power switch on the RSO-I AR to the ON position.
5. Ensure that the Auto Retract (AR) function is set according to the placard on the RSA. The default setting is OFF, if not specified.
6. Press and hold CLOSE to turn the breaker ON.
7. Press and hold TRIP to turn the breaker OFF.

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3 Adjustments

The RSA comes adjusted from the factory to fit most common configurations, and should not need to be adjusted in most cases. However, if adjustments do need to be performed, it is recommended that they be done on de-energized and isolated equipment to prevent possible damage or injury.

3.1 Locator Adjustment

1. Loosen the two bolts on each locator plate, as indicated below.
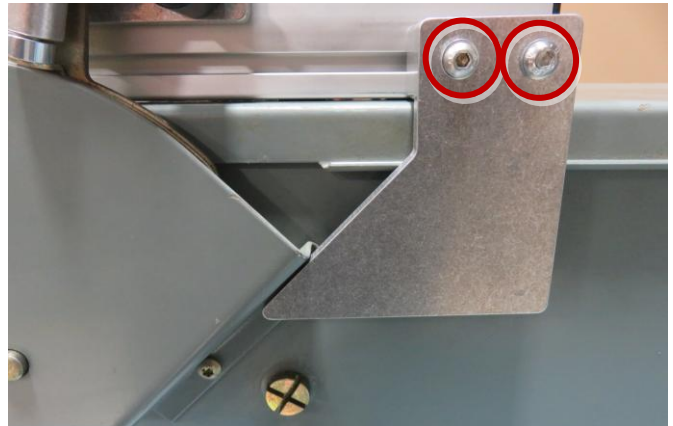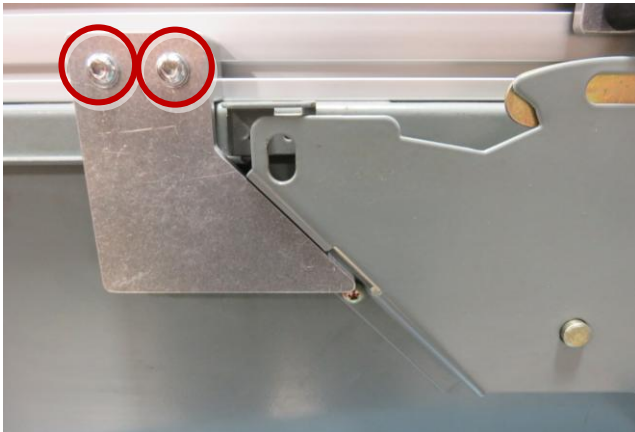
2. Install the RSA as described in the Installation section.
3. During installation, slide the RSA locator along the extrusion as required to ensure the handle of the breaker interfaces properly with the RSA.
4. Re-tighten any loosened bolts after adjustment.

3.2 Travel Adjustment

1. Loosen the two bolts on the back of the actuator on the RSA.

2. Install the RSA, as described in the Installation section, with the breaker turned OFF.
3. Slide the RSA so that the fork on the actuator that is to the ON side of the breaker is touching the breaker handle, with the handle fully depressed in the RESET position..
4. Re-tighten the bolts loosened in Step 1. Note that it may be necessary to re-adjust the locators after this adjustment is complete.

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Notes

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RSA-201
Installation and Operation

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DANGER!

Ensure that personnel using this equipment are adequately trained in the operation of the switchgear they are planning to work with; that they are correctly stationed outside the arc flash boundary; and that they comply with all applicable Federal, State, Local, and In-house safety regulations and procedures. Attention should be given to distance, angle, and personal protective equipment (PPE).