Installation and Operation

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-82

For Siemens Molded Case Circuit Breaker Handle Operator

25-135-017-536

Distance is Safety®

WHAT STANDS BETWEEN YOU AND ARC-FLASH DANGER? WE DO.

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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

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1 Installation

DANGER!

Before servicing any breaker, make sure that it matches the breaker discussed. If the breaker does not match the breaker described above, please call CBS ArcSafe® for more information.

ATTENTION!

The location of certain items such as mimic bus, stickers, and/or placards may interfere with the proper installation of the RSA. Please remove or reposition these items before installing the RSA.

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.

3. If the breaker is ON and needs to be turned OFF, then the actuator needs to be fully extended

4. If the breaker is OFF and needs to be turned ON, then the actuator needs to be fully retracted.

5. Position the RSA on the breaker, ensuring that the locator on the RSA is flush against the lockout tab on the breaker, as shown.

6. Ensure the breaker switch is seated in the switch actuator on the RSA actuator as shown in the following photo. The metal lip on the right side of the switch will fit between the tabs of the RSA locator block. The switch handle should be positioned between the black switch actuator posts.

7. Ensure the magnets are fully seated against the breaker cabinet and then turn the handles of the twist-lock magnets 180° to lock the RSA in place.

The RSA is now ready for operation.

2 Operation

ATTENTION!

Please ensure that all cables are clear of moving parts. Failure to do so may result in damage to cables and/or actuator.

ATTENTION!

Please ensure that the batteries to the RSO-I AR are fully charged or that the unit is plugged into AC power.

For detailed instructions on the operation of the RSO-I AR please see the RSO-I AR Manual.

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. If not specified, leave AR turned OFF.
6. Press and hold CLOSE to turn the breaker ON.
7. Press and hold TRIP to turn the breaker OFF.

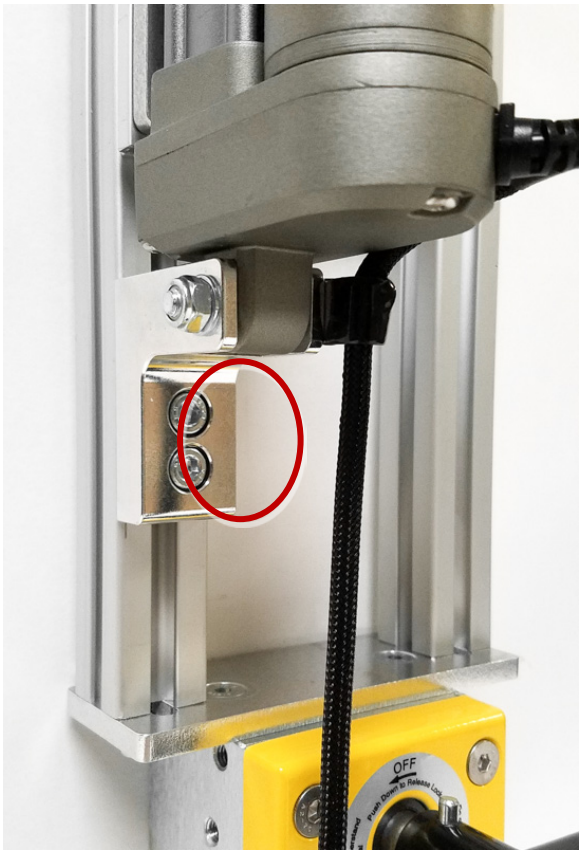
3 Adjustments

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 Travel Adjustment

The travel distance of the RSA can be adjusted slightly to accommodate some differences in breaker layout. To Adjsut the travel:

1. Loosen the two bolts on the actuator block, as shown.



2. Install the RSA according to the instructions in the Installation section of this manual on a de-energized piece of switchgear.

3. Slide the actuator as needed to adjust the travel to the desired range.

4. Re-tighten the loosened bolts.

3.2 Locator Adjustment

The locator of the RSA can be adjusted slightly to accommodate differences in the breaker.

1. Loosen the two bolts on the locator plate, as shown in the following image.

2. Install the RSA according to the instructions in the Installation section of this manual on a de-energized piece of switchgear.

3. Slide the locator as required to align it to the metal lip on the right side of the switch.

4. Re-tighten the loosened bolts.

5. Note that it may be necessary to re-adjust the travel after adjusting the locator.

3.3 Depth Adjustment

The height of the RSA can be adjusted slightly to accommodate the depth of the switch in the panel.

1. Loosen the two bolts on one of the magnet plates, as shown in the following image.

2. Move the magnet plate up or down to adjust for the depth of the switch.
3. Re-tighten the loosened bolts.
4. Repeat steps 1-3 for the other magnet plate.

Notes

Notes

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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).