CBS Arc Safe®

Distance Is Safety®

A Group CBS Company

RSA-65

For Versa Rupter Interrupter Switch
Recessed Mounted





Distance is Safety®

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

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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 switch is free from any obstruction that may interfere with the proper installation of the RSA.



- 2. To adjust the RSA for accommodating unavoidable obstructions such as bolt heads or lock-out mechanisms, see the Adjustments section, and make any applicable adjustments to the RSA before attempting to install.
- 3. Rotate the RSA motor arm so that the handle adapter is aligned with the handle.



4. Position the RSA against the switch handle housing so that the corners are aligned as shown in the images.





- 5. Turn the (4) handles of the twist-lock magnets 180° clockwise to lock the RSA in place.
- 6. The RSA is now ready for remote 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 Section 3 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.
- If the breaker is CLOSED and needs to be opened, press and hold the TRIP button on the RSO-I AR until the breaker is tripped.
- 7. If the breaker is OPEN and needs to be close, press and hold the CLOSE button on the RSO-I AR until the breaker is closed.



DANGER!

In some cases where the switch is mounted in an inverted configuration, pressing the CLOSE button may cause the switch to OPEN, and pressing the TRIP button may cause the switch to CLOSE.

Be sure to verify the orientation of the switch before attempting to remotely operate with the RSA and RSO, and reconfigure the RSA if necessary. Failure to properly configure the RSA could result in damage to the breaker



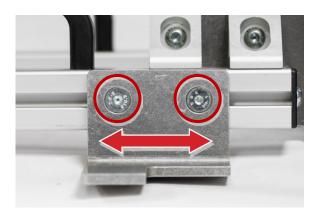
3 Adjustments

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

The handle locators may be adjusted if they are not positioned properly for the switch handle housing. Each locator is held in place by (2) screws and may be adjusted along the extrusion rail.

1. Loosen the (2) screws on the locator to be moved. The locator screws are shown below.





- 2. Slide the locators along the extrusion rail as necessary to position them flush to the upper and lower edges of the switch handle housing.
- 3. Re-tighten the four bolts when finished.

3.2 Travel Adjustment

The travel length for the motor arm may be adjusted to avoid damage to the breaker.

ATTENTION!

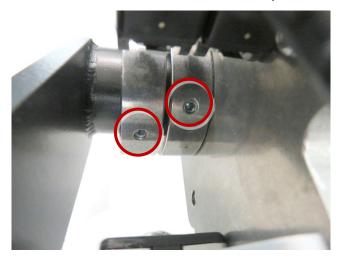
In most cases, the RSA comes set up from the factory so the outer limit switch cam adjusts the CLOSE operation travel limit, and the inner limit switch cam adjusts the OPEN operation travel limit.

However, in some cases where the Load Break Interrupter is mounted in an inverted configuration, the outer limit switch cam may adjust the OPEN operation travel limit, and the inner limit switch cam may adjust the CLOSE operation travel limit.

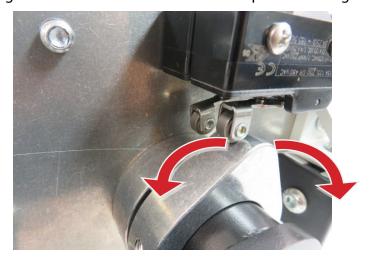
If the travel limits must be adjusted, be sure to verify the correct configuration for the limit switches by jogging the RSA while on a bench or otherwise away from the breaker, and noting which switch engages in each direction.

1. Loosen the setscrews on the back of the two switch cams. Note there are two setscrews per cam.

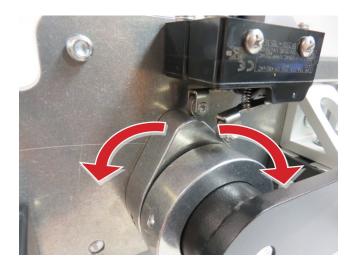




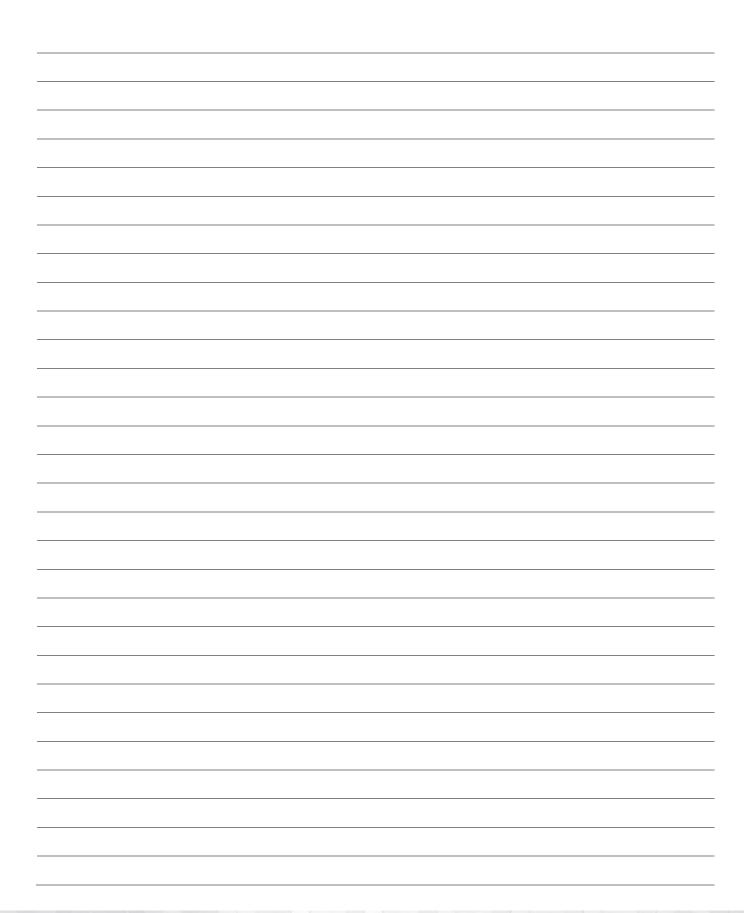
- 2. Install the RSA on the face of the breaker as described in the Installation section.
- 3. With the RSA operator arm in the OFF position, rotate the outer limit switch cam opposite the direction of travel for the arm, until a slight click is heard, and the limit switch is undepressed. Then, rotate the cam back until a slight click is heard and the switch is depressed. Re-tighten the lock-screw.



4. With the RSA operator arm in the ON position, rotate the inner limit switch cam opposite the direction of travel for the arm, until a slight click is heard, and the limit switch is undepressed. Then, rotate the cam back until a slight click is heard and the switch is depressed. Re-tighten the lock-screw.



Notes







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RSA-65
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).