Installation and Operation

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-286G

For Siemens 3VA6

Distance is Safety®

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

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Rev. 1/8/2026

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!

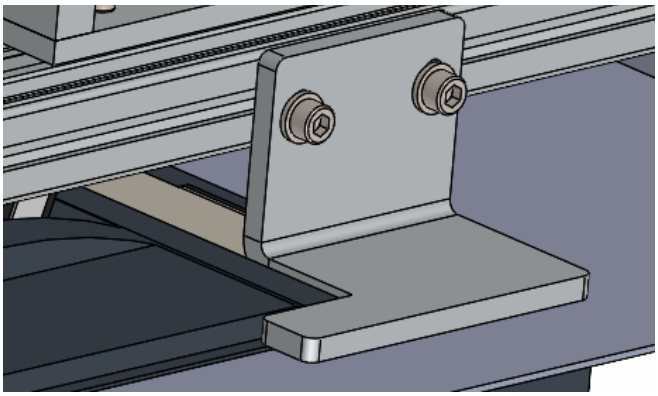
Before servicing any breaker, make sure that it matches the breaker discussed. If the breaker does not match the breaker described above, please call CBS ArcSafe® for more information.

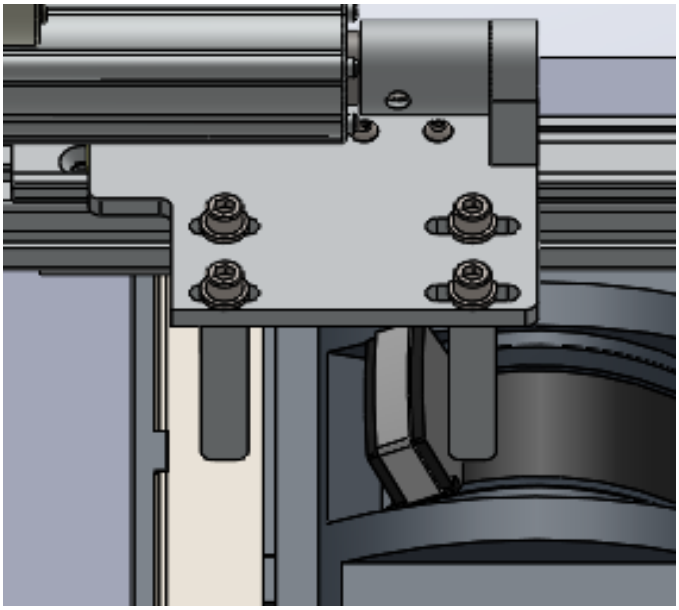
ATTENTION!

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. First inspect the breaker to be remotely operated and ensure that if a lockout device is installed, that it matches the factory type in the picture on the first page. This RSA device will not function properly if any other style of lockout device is present.

2. Align the locator on the RSA to the handle escutcheon, and then lower the RSA over the breaker handle ensuring that it is positioned between the handle actuator. Ensure that the edge of the locators sit on either side of the breaker handle enclosure.

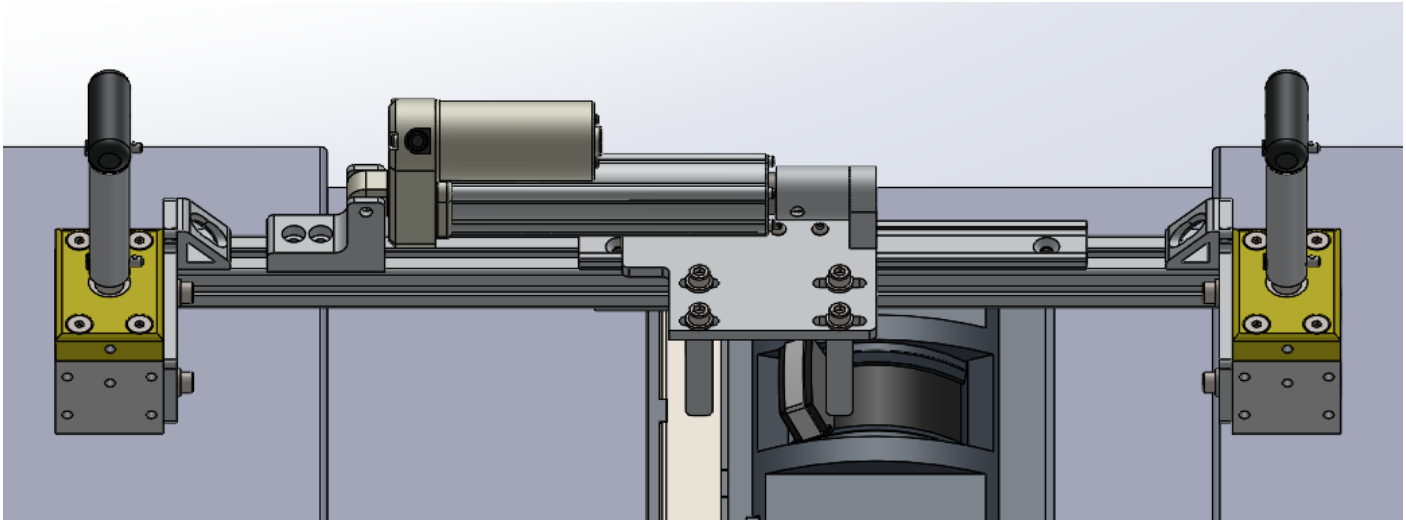




3. Ensure that the magnet configuration matches the required installation of the breaker.

4. Secure the RSA to the breaker by rotating the three twist-lock magnet handles clockwise until the RSA is securely in place.

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-M18.

For detailed instructions on the operation of the RSO-I AR-M18 please see the RSO-I AR-M18 Manual.

Ensure that the RSA is properly installed. See Section 1 for detailed instructions.

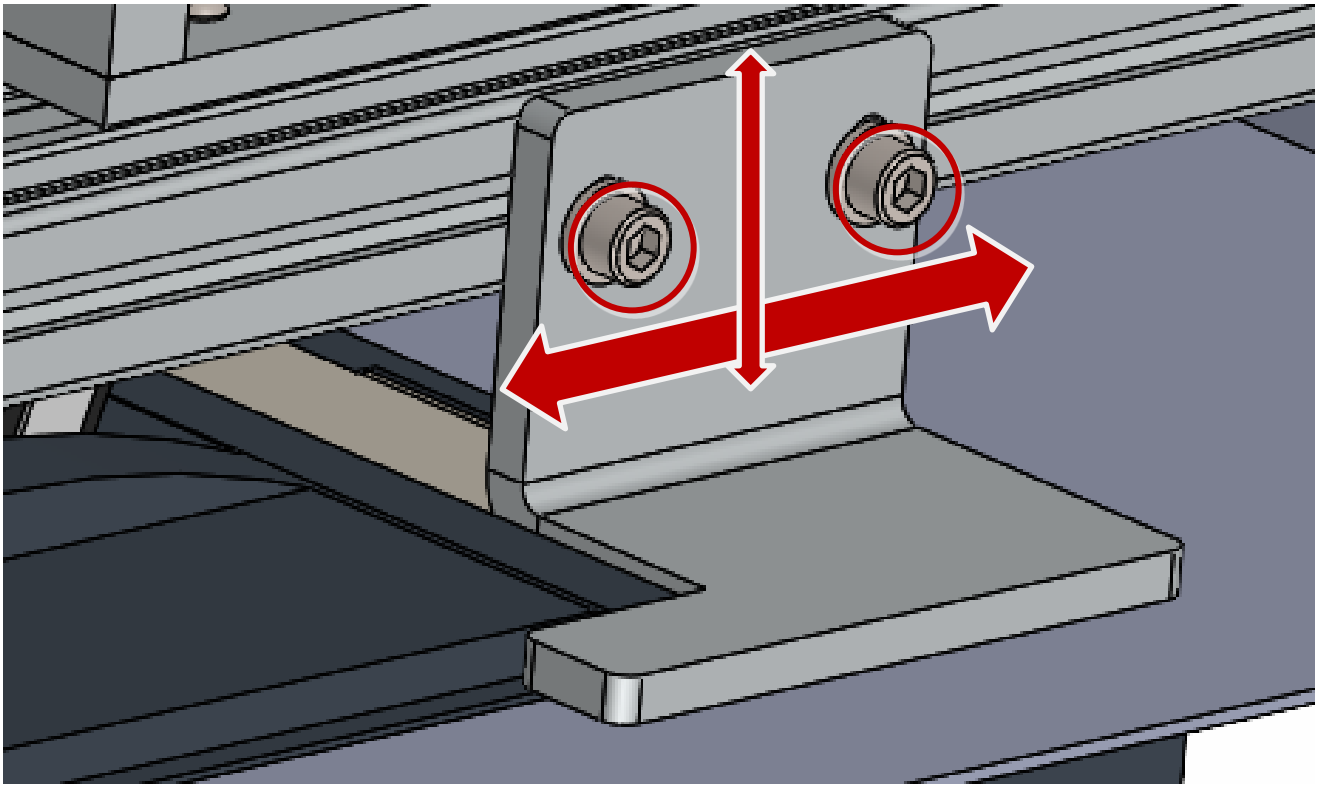
5. Plug the RSO-I AR-M18 into the motor control box.
6. Exit the arc flash boundary.
7. Turn the power switch clockwise on the RSO-I AR-M18 to the ON position.
8. Ensure that the Auto Retract (AR) function is OFF.
9. If the Breaker is OFF and needs to be turned ON, press and hold the CLOSE button on the RSO-I AR-M18 until the Breaker is ON.
10. If the Breaker is ON and needs to be turned OFF, press and hold the TRIP button on the RSO-I AR-M18 until the Breaker is 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 Locator Position

1. Loosen the two bolts holding the locator in place, as indicated below.



2. Install the RSA as described in the Installation section.

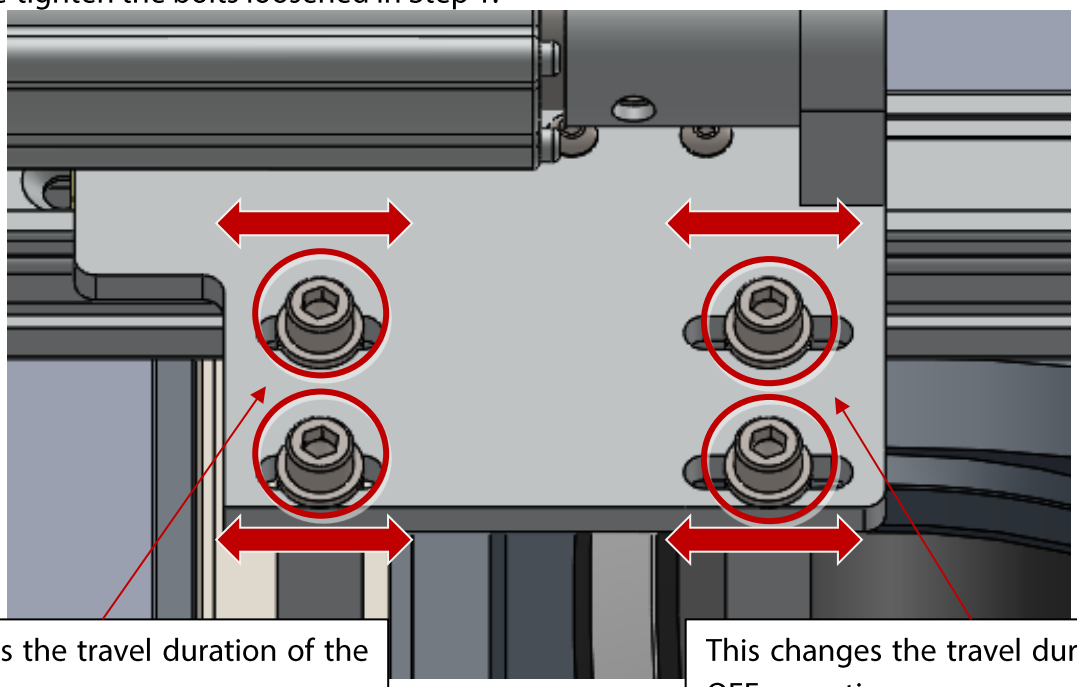
3. Slide the locator up or down the extrusion as required to the RSA sits flush against the switchgear, and the switch sits between the rollers on the RSA.

4. Remove the RSA and tighten the loosened bolts when adjustment is complete. Note that adjusting travel may be necessary after adjusting the locator.

3.2 Operation Distance Adjustment

The distance that the operators travel can be adjuste to accommodate for differences in breakers.

1. Locate and loosen the bolts below.
2. Slide the operator tabs along the slots until their respective operations can be achieved.
3. Re-tighten the bolts loosened in Step 1.

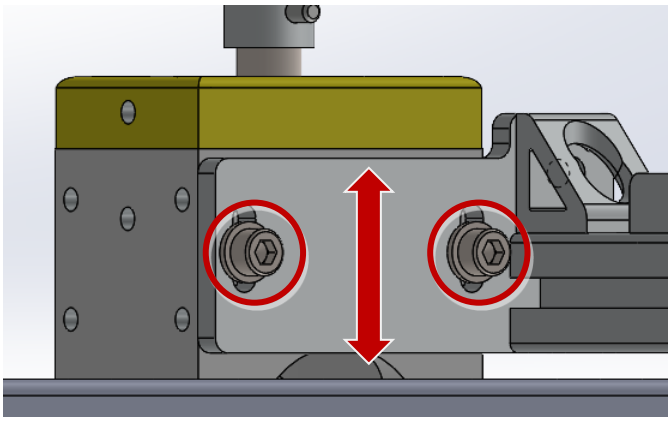


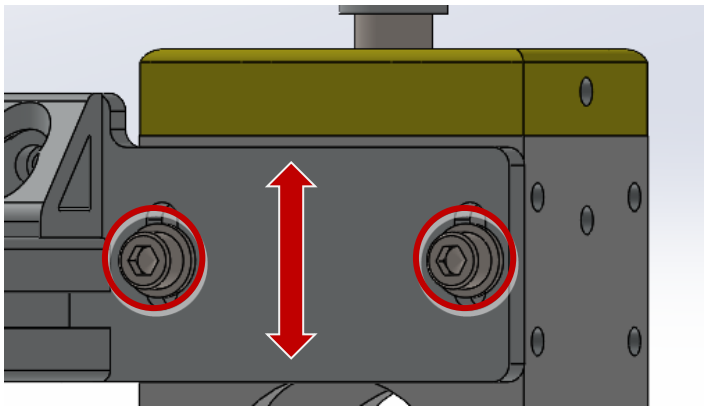
This changes the travel duration of the ON operation.

This changes the travel duration of the OFF operation.

3.3 Depth Adjustment

1. Loosen the bolts holding the magnets in place, as indicated below.





2. Install the RSA as described in the Installation section.
3. Slide the magnets up or down to adjust the distance of the RSA unit from the face of the breaker.
4. Tighten the loosened bolts when adjustment is complete.

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).