

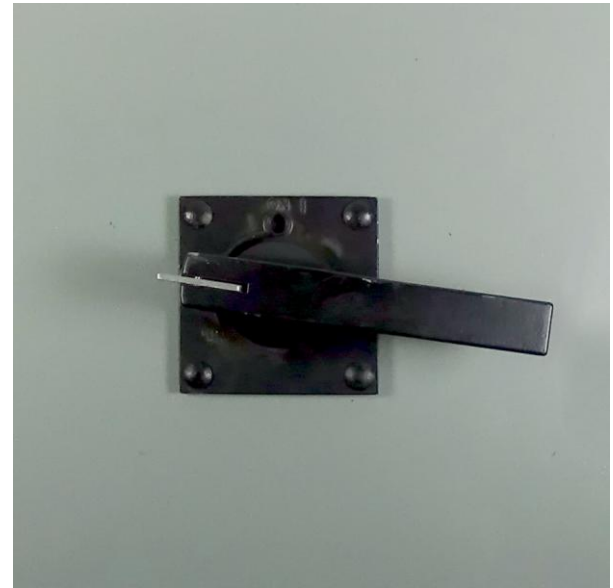
CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-52

For Siemens RHOH Rotary Door Mounted
Operating Handle (For MD, ND, PD, & RD Frame MCCBs
NEMA Type 1, 3, 3R, 12, 4, & 4X Enclosures)



Distance is Safety®

WHAT STANDS
BETWEEN YOU AND
ARC-FLASH DANGER?

**WE
DO.**

2616 Sirius Road | Denton, TX 76208 | (877) 4-SAFETY | www.cbsarcsafe.com

Rev. 9/16/2014

Installation and Operation

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.

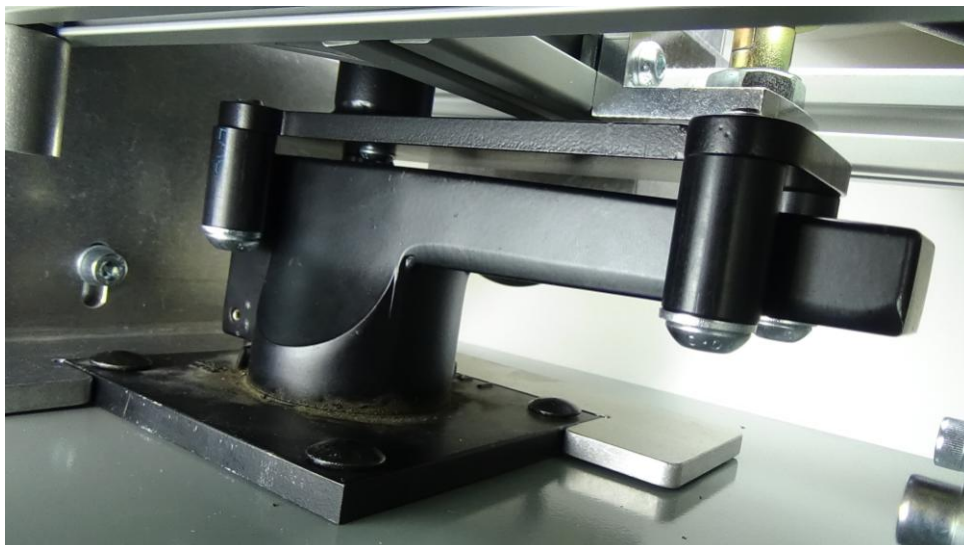
ATTENTION!

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.

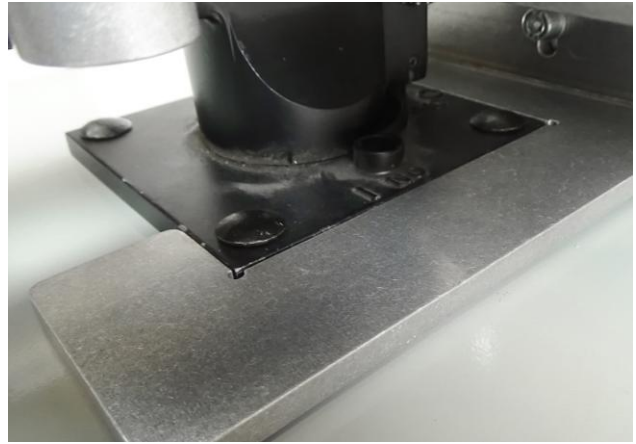
1. Ensure that the breaker is free from any obstruction that may interfere with the proper installation of the RSA.



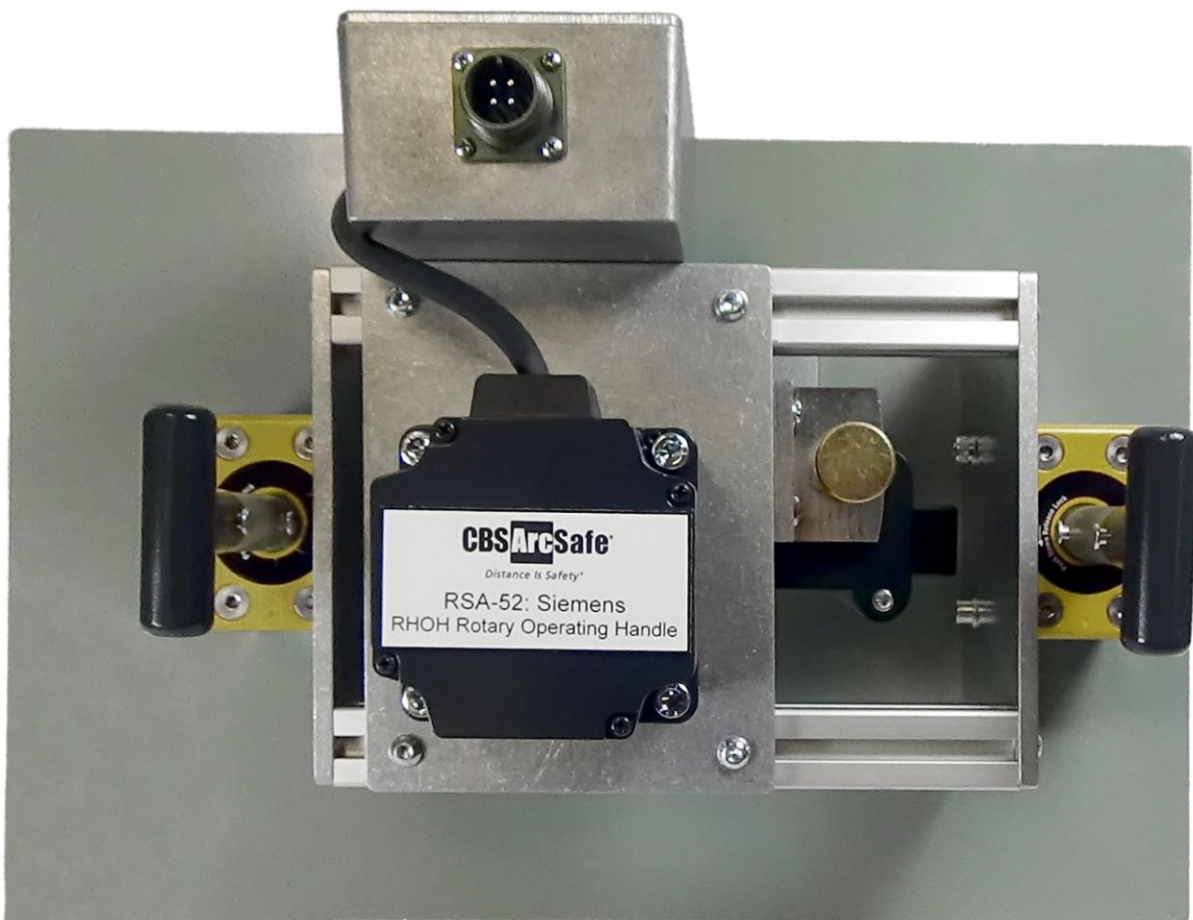
2. Manually rotate the handle adapter to match to position of the breaker handle.
3. Place the RSA on the face of the breaker ensuring that the handle actuator is properly seated around the operating handle, as shown.



4. Ensure the locators on the RSA are properly positioned, and seated flush against the operating handle housing, as shown.



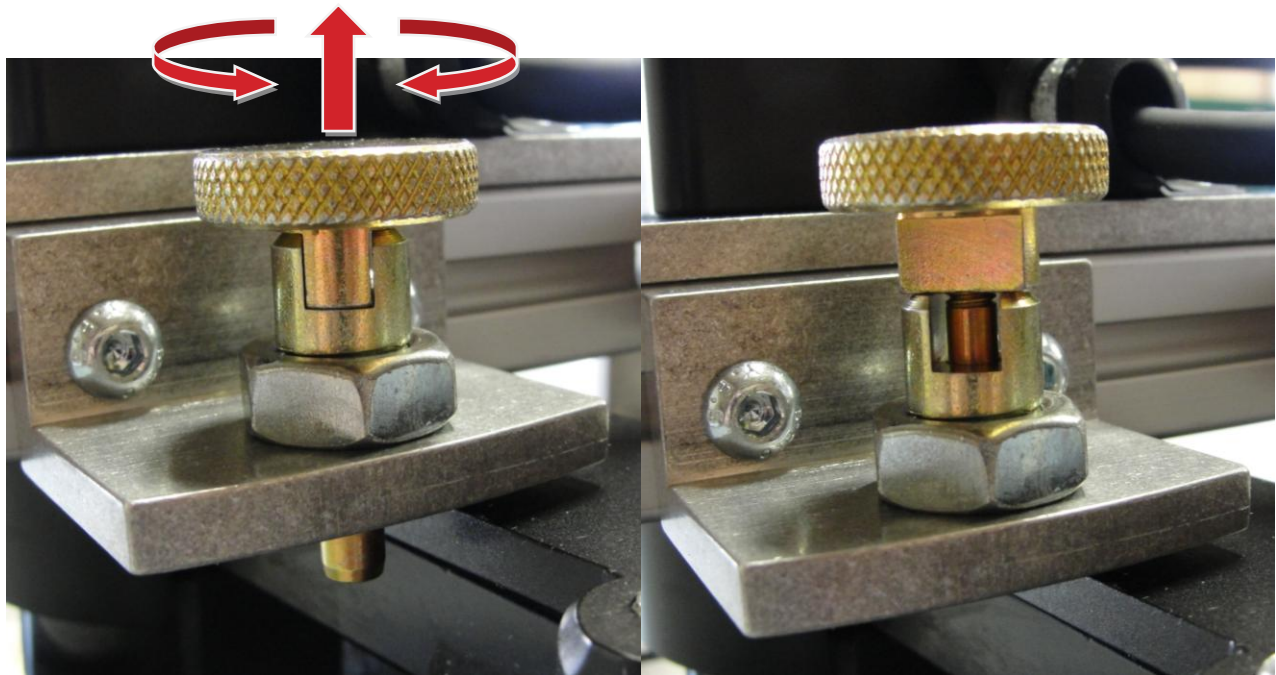
5. To attach the RSA to the breaker turn the handles of the twist-lock magnets 180° clockwise. The RSA is now ready for remote operation



NOTE:

This RSA features a spring-loaded retractable stop for the OFF handle position. If the stop is engaged then the handle will stop at the OFF position. If the stop is disengaged the switch will be allowed to travel to the RESET position. To engage or disengage the retractable stop, pull out on the stop knob and rotate 90 degrees in either direction, as indicated in the images below.

The lower left image shows the stop engaged, the lower right shows the stop disengaged.



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 OFF
6. If the handle is in the ON position and needs to be turned OFF, then
 - a. Engage the OFF position stop as described in the Installation section.
 - b. Press and hold the TRIP button on the RSO-I AR until the operating handle is in the OFF position.
7. If the handle is in the ON position and needs to be RESET, then
 - a. Disengage the OFF position stop as described in the Installation section.
 - b. Press and hold the TRIP button on the RSO-I AR until the operating handle is in the RESET position.
8. If the handle is in the OFF or RESET positions and needs to be turned ON then push and hold the CLOSE button on the RSO-I AR until the operating handle reaches the ON travel stop.



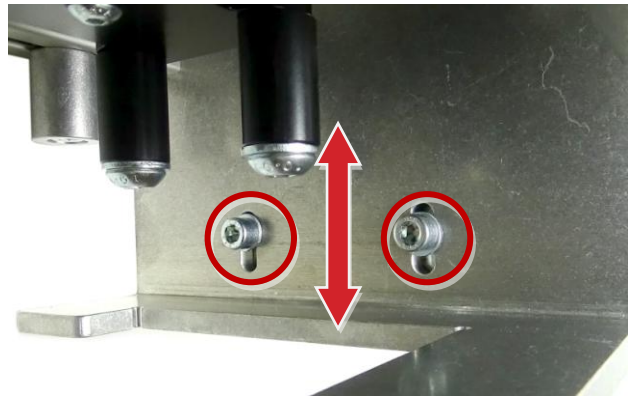
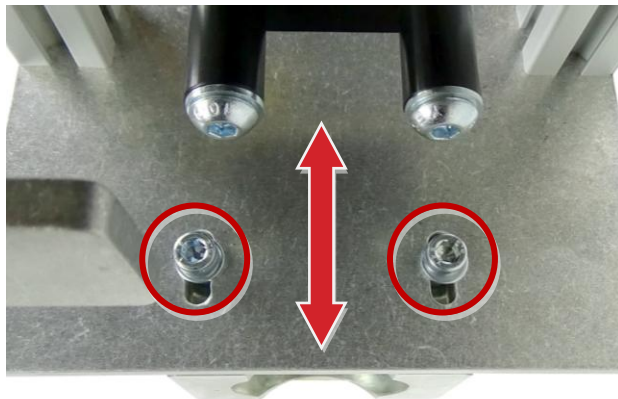
3 Adjustments

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 Magnet Adjustment

The depth of the magnets on the RSA can be adjusted in order to avoid interference from items mounted to the switch door.

1. Loosen the two bolts on each magnet, as shown below.

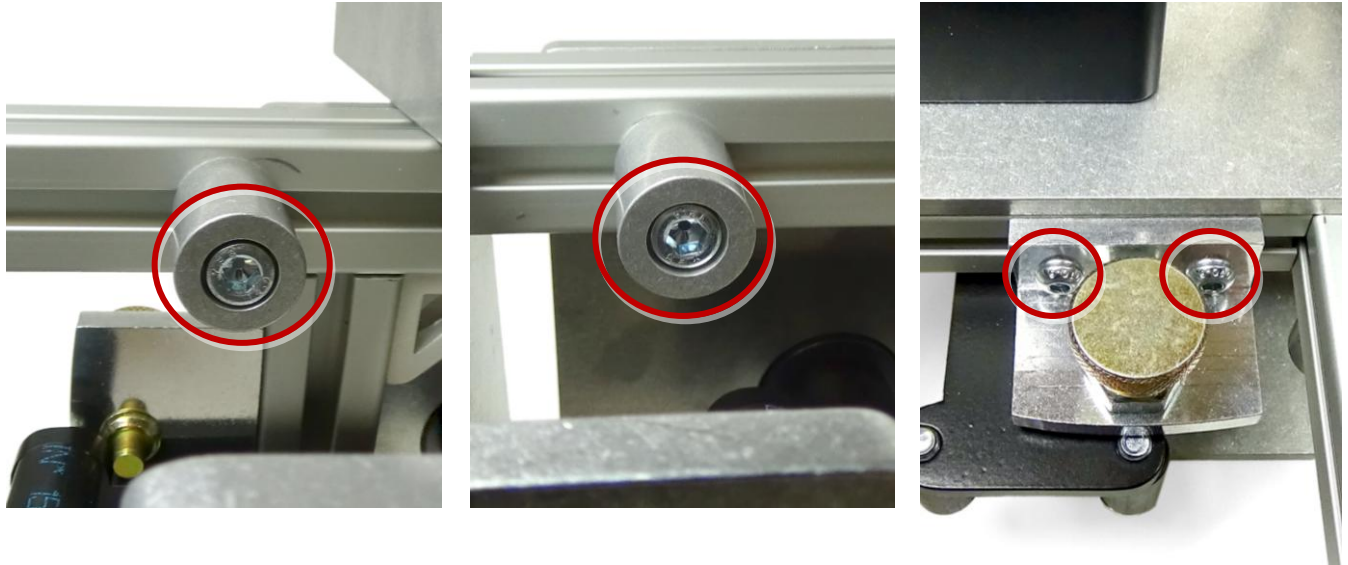


2. Slide the magnet left or right as necessary to position it so it adequately avoids any obstructions.
3. Re-tighten the bolts.

3.2 Travel Adjustment

The travel length for the motor may be adjusted to avoid damage to the operator handle.

1. Install the RSA on the operator handle as described in the Installation section.
2. Loosen the lock screws on the backs of the ON and RESET travel stops (Below Left and Center), and the two screws on the retractable stop plate (Below Right), as shown.



3. Attach the RSA to de-energized gear according to the instructions in the Installation section.
4. With the operator handle and RSA operator arm fully in the ON position, slide the upper travel stop towards the operator arm until it contacts the arm as shown, and tighten the bolt.



5. Engage the retractable OFF stop.
6. Move the operator handle and RSA operator arm fully to the OFF position, then slide the OFF travel stop plate until the stop contacts the arm as shown, and tighten the bolts.



7. Disengage the retractable OFF stop.
8. Move the operator handle and RSA operator arm fully to the RESET position, then slide the RESET travel stop until the it contacts the arm as shown, and tighten the bolts.





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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).