

CBS ArcSafe®

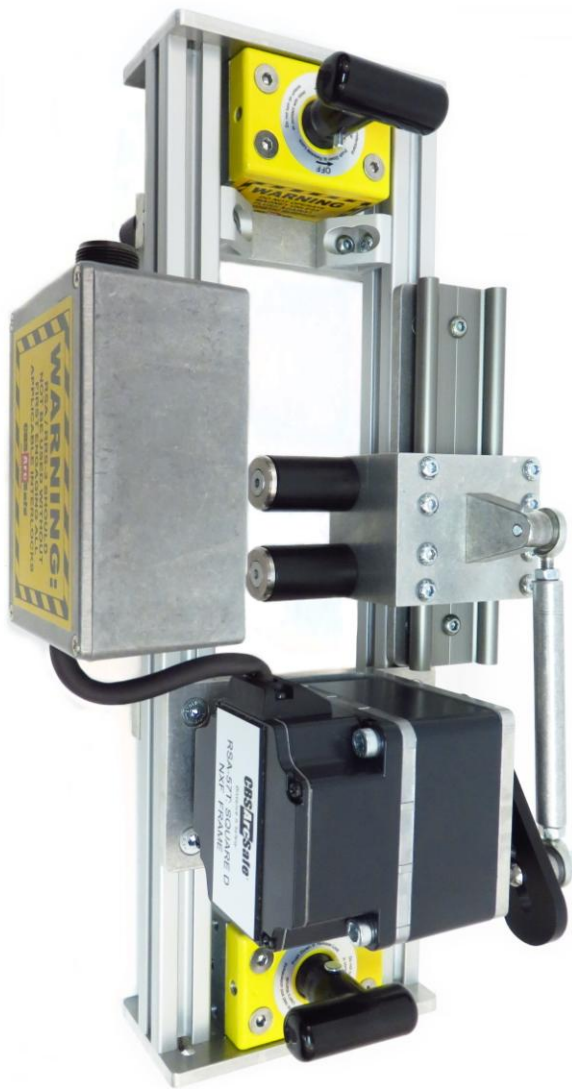
Distance Is Safety®

A Group CBS Company

Installation and Operation

RSA-57T

For Square D MCCB - N Frame
600-1200A, Flush Mounted, With Or Without Factory
Lockout, Includes NE, NX Frames



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. 8/18/2016

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.

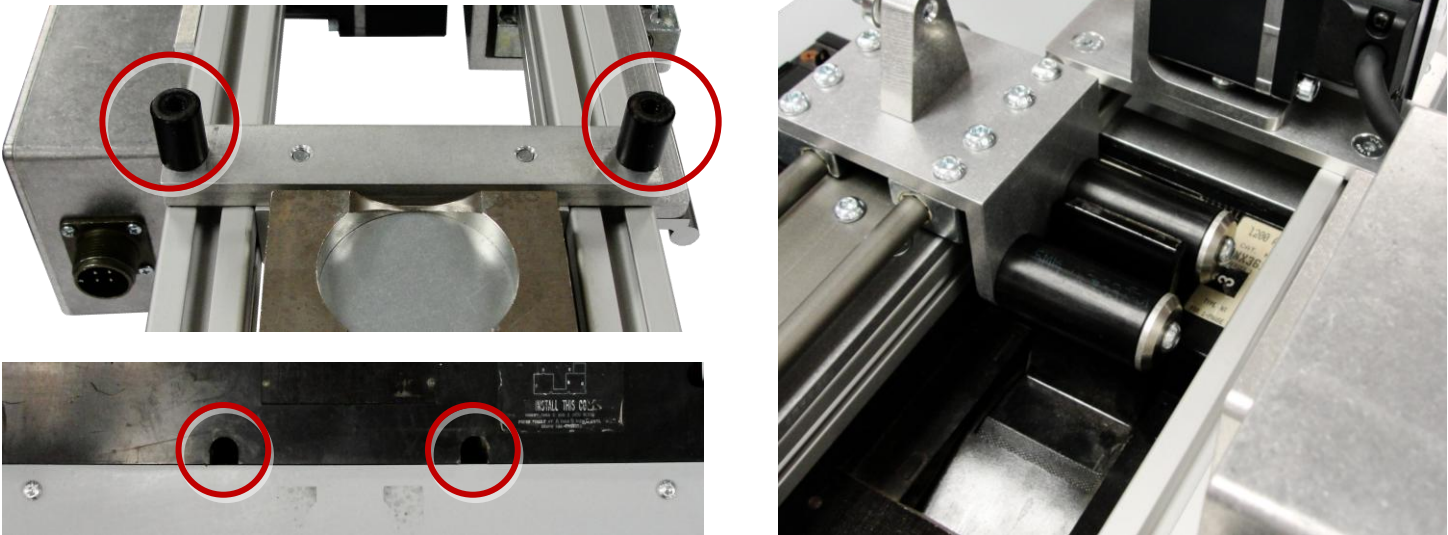
1. Ensure that the Switch to be operated is free from obstructions that may interfere with proper installation of the RSA



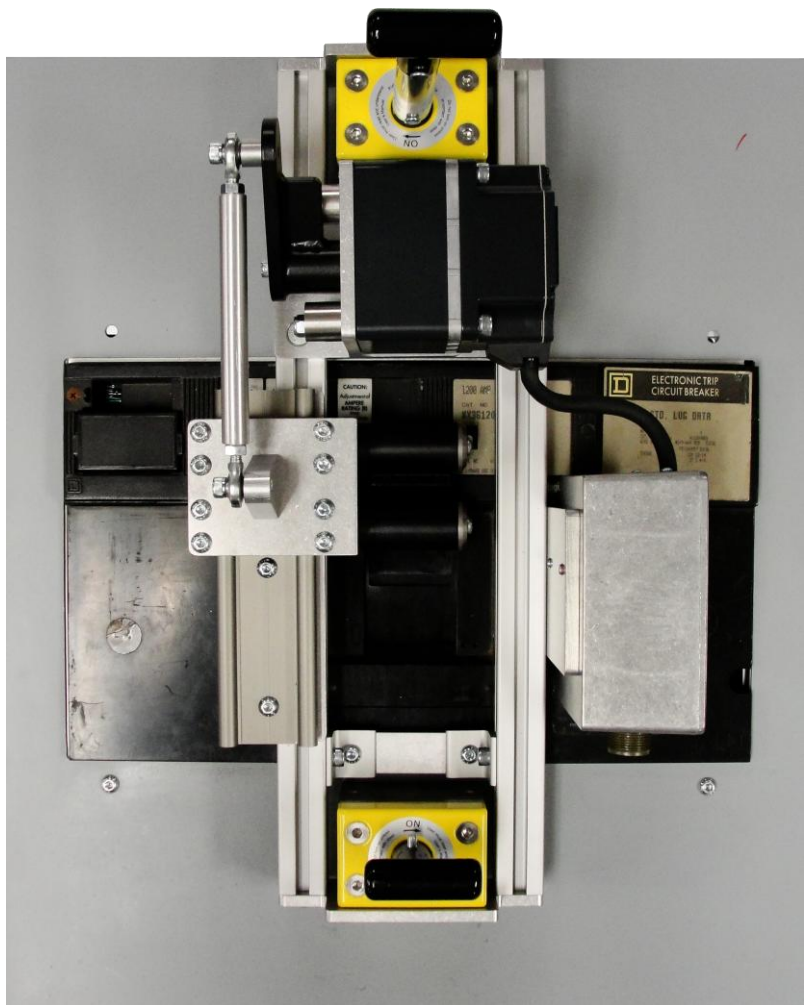
2. If the breaker has a factory installed lock-out/tag-out device in place on the side of the breaker's operating handle (Similar to that shown below), it must be moved to the farthest outward position prior to installation and operation so that it clears the switch and does not interfere with operation of the RSA..



- Place the RSA over the handle on the switch. Match the position of the RSA operator to the position of the breaker switch, if necessary. Ensure that the black locator pegs on the RSA fit into the matching slots on the OFF side of the breaker (below left), and that the switch fits between the rollers on the RSA, as shown below right. Also ensure that the upper locator sits flush over the top of the breaker.



- Ensure the magnets are fully seated against the switch cover 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.



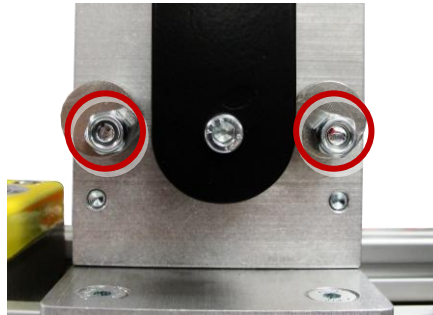
3 Adjustments

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 length for the operator arm may be adjusted to avoid damage to the breaker switch.

1. Loosen the lock screws on the backs of the two switch cams on the RSA.

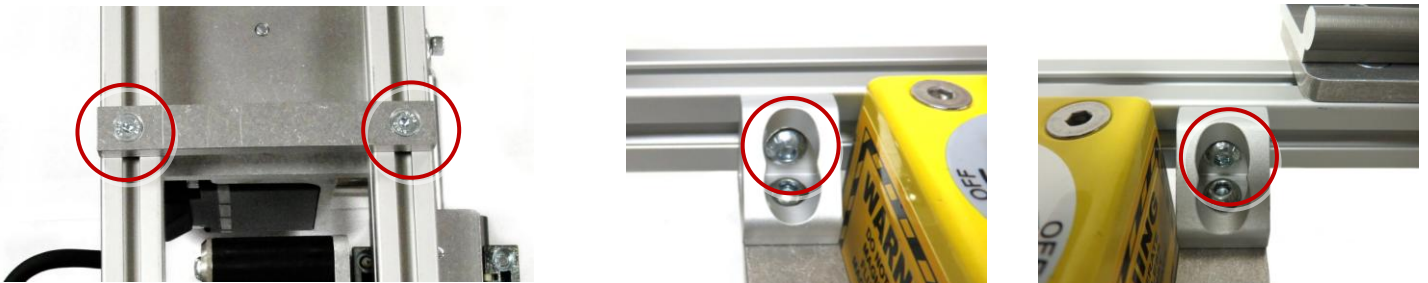


2. Install the RSA as described in the Installation section of this manual.
3. With the RSA actuator and breaker in the ON position, rotate the inner cam until the operator arm is allowed to reach full travel in the ON position. Tighten the bolt after adjustment is finished.
4. With the RSA actuator and breaker in the OFF position, rotate the inner cam until the operator arm is allowed to reach full travel in the OFF position. Tighten the bolt after adjustment is finished.

3.2 Locator Adjustment

The locators on the RSA can be adjusted to accommodate some differences in the mounting of the switch.

1. Loosen the two bolts on the locator to be adjusted, as shown.



2. Attach the RSA as described in the Installation section.
3. Slide the locator to the desired position along the extrusion.
 - a. For the upper locator, ensure that it sits flush against the breaker.
 - b. For the lower locator, ensure that the pegs sit into the appropriate holes on the breaker, as indicated in the Installation instructions.
4. Re-tighten the bolts loosened in Step 1.



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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).