

CBS ArcSafe®

Distance Is Safety®

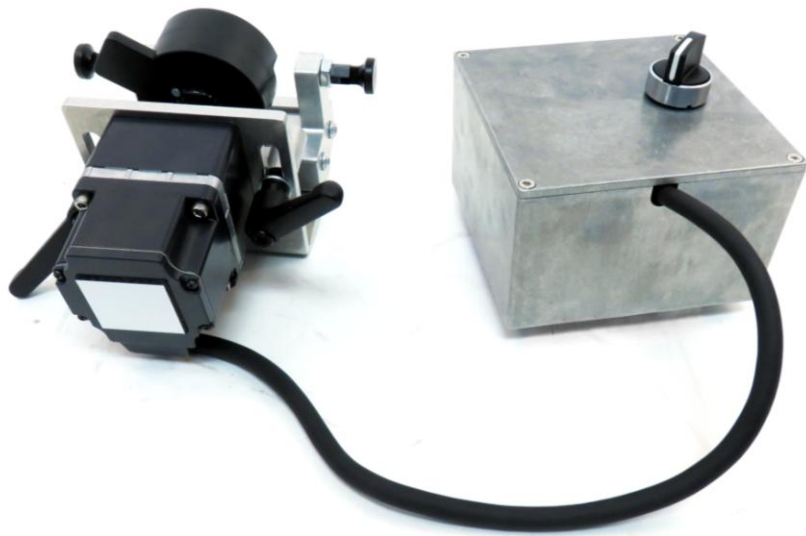
A Group CBS Company

Installation and Operation

RSA-134

For Square D Type QMB Safelex
Panelboard Switch

6.0"; Twin; 30A & 60A; Series 2 or 4 &
7.5"; Twin; 60A & 100A; Series 2 or 4



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. 10/20/2016

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

Published and distributed by:
CBS ArcSafe®
2616 Sirius Road
Denton, Texas 76208

A division of:
GroupCBS, Inc.®
P.O. Box 1557
Gainesville, Texas 76241

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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.

Note that the breaker this RSA is designed to interface with comes in both a Left and Right configuration. Before attempting to operate, be sure that the RSA is set up properly for the configuration of breaker to be operated.

1.1 Motor Setup for Right-Side Breaker

1. First, loosen the black travel stop handles on the back of the RSA, so that the travel stops can be freely moved.
2. If lowered, raise the motor stop on the right-hand side of the RSA to the top of the slot. Hold onto the stop and twist the handle to lock it into place.



3. If raised, lower the motor stop on the left-hand side of the RSA to the bottom of the slot. Hold onto the stop and twist the handle to lock it into place.



4. Turn the black handle operator until the operator touches the right-hand side motor stop.



5. Turn the switch on the motor control box to "Right Position".



1.2 Motor Setup for Left-Side Breaker

1. First, loosen the black travel stop handles on the back of the RSA, so that the travel stops can be freely moved.
2. If raised, lower the motor stop on the right-hand side of the RSA to the bottom of the slot. Hold onto the stop and twist the handle to lock it into place.



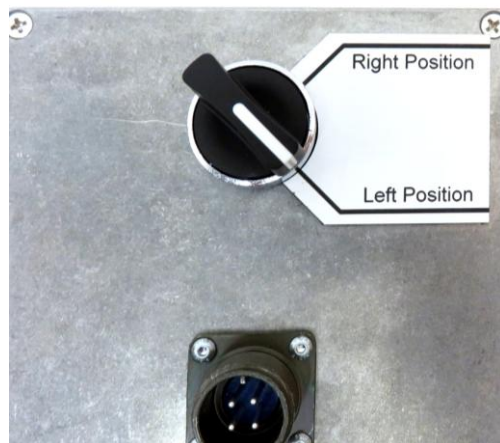
3. If lowered, raise the motor stop on the left-hand side of the RSA to the bottom of the slot. Hold onto the stop and twist the handle to lock it into place.



4. Turn the black switch adapter until the rod its touching the left-hand side motor stop.

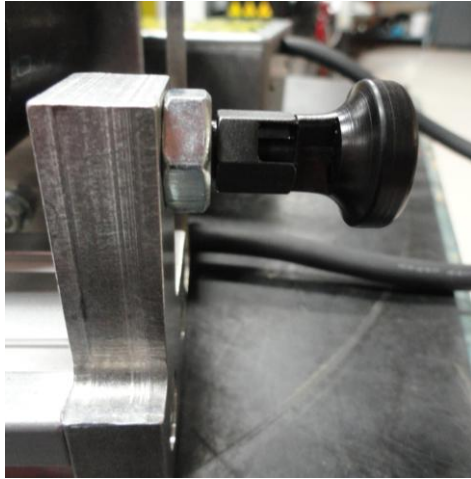


5. Turn the switch on the motor control box to "Right Position".



1.3 Connecting the RSA to the Breaker

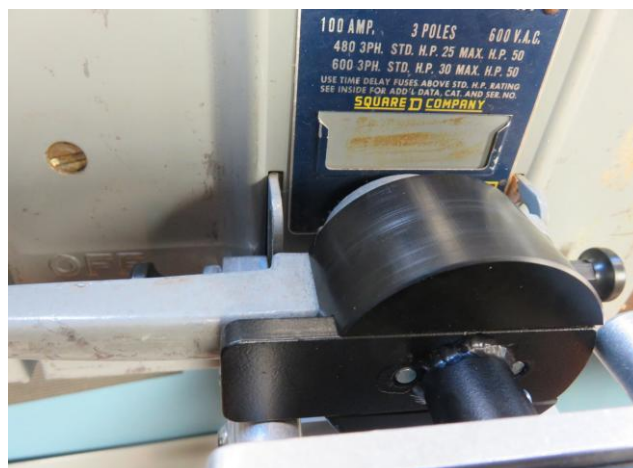
1. Ensure that the RSA is properly set up for Left or Right side breaker configuration, as described in Section 1.1 or 1.2.
2. Disengage each pin on the left and right of the RSA by pulling the black knob out and twisting it to the right.



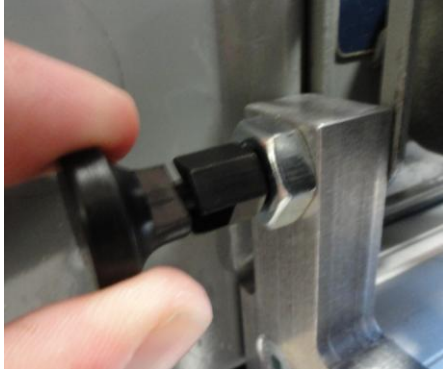
3. Ensure that the breaker is clear from any obstructions, then while holding onto the motor, place the RSA onto the breaker to be operated.



4. Make sure the switch adapter is properly aligned with the handle. If it isn't, turn the adapter until it is properly aligned.



5. After aligning the RSA, twist and press the black knobs on each side of the RSA into the slots to engage the slots on the breaker and 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.





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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).