

Installation and Operation

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-123A

For Square D Type QMBW

Includes QMB221TW, 222TW, 223TW, 321TW, 322TW, 323TW, 261TW, 262TW, 263TW, 361TW, 362TW, 363TW; QMJ361T, 362T, 363T, 364T (4.5", 6", 7.5" Twin Switch)



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. 11/11/2016

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

Copyright CBS ArcSafe® 2016

Printed in the United States of America
Reproduction, adaptation, or translation without prior written permission is prohibited except as is allowed by law.

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. Ensure that the Motor Control Box switch is set properly according to the orientation of the switch to be operated.
 - a. For a left-positioned switch (counter-clockwise operation from OFF to ON), it should be set to "Left Position".



- b. For a right-positioned switch (clockwise operation from OFF to ON), it should be set to "Right Position".

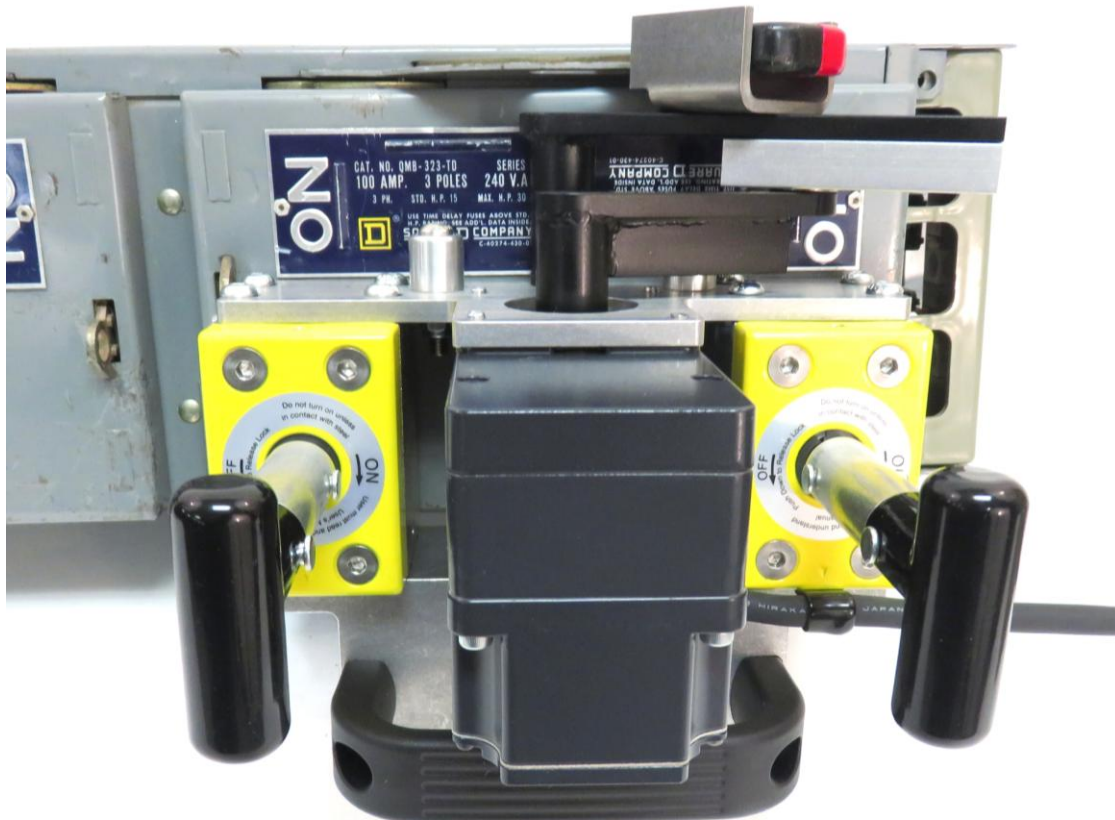


3. Prior to installation of the RSA, jog the motor arm by hand or with the RSO to the correct position corresponding to the switch's current position. This will allow the motor arm to slide over the switch with ease during operation. Move the arm the full amount of travel until it rests against the adjustable travel stop preventing further rotation.
4. Next, install the RSA by first sliding the stainless steel handle grip over the switch's handle as shown in the middle image below while at the same time seating the device against the panel. Ensure that both the ON-side (below right) and OFF-side (below left) locators are properly positioned around the switch body to prevent movement during operation as shown.



5. Place the motor control box onto the panel in a location that will not interfere with operation.
6. To attach the RSA, ensure that both magnets are seated flush against the switch panel, then turn the handles of the two twist-lock magnets 180° clockwise.

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 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.
6. If the switch is ON and needs to be turned OFF then push and hold the TRIP button until the switch opens fully.
7. If the switch is OFF and needs to be turned ON then push and hold the CLOSE button until the switch is closed fully.



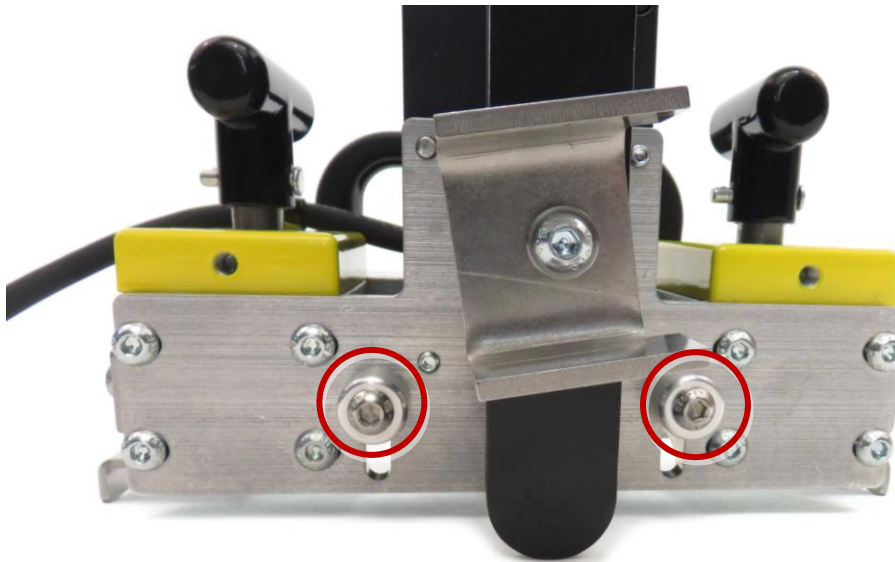
3 Adjustments

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

This RSA has travel stops on it to prevent over-travel and damage of the handle operator during operation.

1. Install the RSA as directed in the Installation section.
2. Loosen the two bolts on the travel stops.



3. To set the RSA to stop the handle at the ON position, tap the CLOSE button on the RSO to carefully jog the RSA until the Handle Operator has reached the ON position (Note: the side to adjust will change depending on which orientation the RSA is set to). Slide the stop so it sits flush against the handle, and re-tighten the bolt.



4. To set the RSA to stop the switch at the OFF position, tap the RSO TRIP button to carefully jog the RSA until the Handle Operator is at the OFF position (Note: the side to adjust will change depending on which orientation the RSA is set to). Slide the stop so it sits flush against the handle, and re-tighten the bolt.





Distance Is Safety®

A Group CBS Company

RSA-123A
Installation and Operation

2616 Sirius Road
Denton, TX 76208
Tel: 877-4-SAFETY
Fax: 940-382-9435
Website: www.CBSArcSafe.com
Email: info@CBSArcSafe.com

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).