

Distance Is Safety® A Group CBS Company

RSA-166

Square D Heavy Duty Safety Switch 240/ 600V, 400/600/800/1200A







2616 Sirius Road | Denton, TX 76208 | (877) 4-SAFETY | www.cbsarcsafe.com *Rev.* 4/30/2019

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!

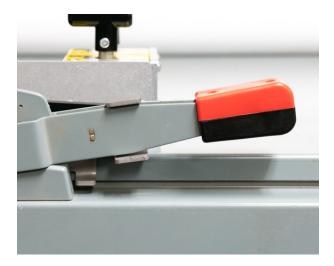
The location of certain items such as mimic bus, stickers, and/or placards may interfere with the proper installation of the RSA. Please remove or reposition these items before installing the RSA.

- 1. Ensure that the switch is free from any obstruction that may interfere with the proper installation of the RSA.
- 2. Align the RSA arm with the current state of the switch handle.
- 3. Position the RSA to the left side of the switch.
- 4. Slide the RSA locating tabs under the switch handle and down over the edge of the switch door panel.





5. Ensure the switch handle is between the operating forks on the RSA, as indicated below.



6. Turn the handles of the three twist-lock magnets 180° clockwise 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.
- 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.
- 6. If the switch is ON and needs to be turned off, then press and hold the TRIP button on the RSO-I AR until the switch is tripped.
- 7. If the switch is OFF and needs to be turned ON then push and hold the CLOSE button on the RSO-I AR until the switch is closed.



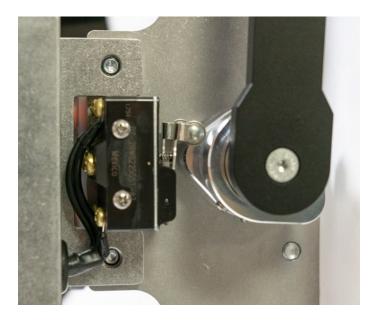


3 Adjustments

3.1 Travel Adjustment

The travel range may be adjusted with the limit switch cams.

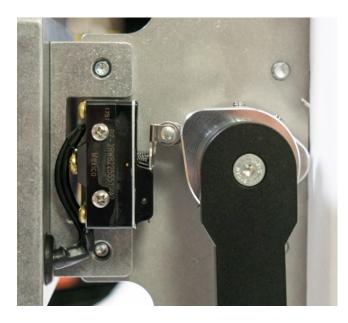
- 1. Loosen the set screws on the inner and outer limit switch cams.
- 2. Place the RSA on the breaker as described in the Installation section.
- 3. To adjust the RSA travel while the breaker is in the ON position, rotate the inner cam clockwise until it engages the inner limit switch with a click.



4. Re-tighten the inner cam set screws.



5. To adjust the RSA travel while the breaker is in the OFF position, rotate the outer cam counter-clockwise until it engages the outer limit switch with a click.



6. Re-tighten the outer cam set screws.



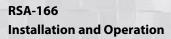
Notes

RSA-166 Installation and Operation



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Notes





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RSA-166 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).