

Distance Is Safety® A Group CBS Company

RSA-157

For Cooper Substation VFI Transformer







WHAT STANDS BETWEEN YOU AND ARC-FLASH DANGER?



2616 Sirius Road Denton, TX 76208 (877) 4-SAFETY www.cbsarcsafe.com *Rev. 9/19/2014*

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 transformer switch is free from any obstruction that may interfere with the proper installation of the RSA.



- 2. Prior to installation of the RSA, operate the actuator to match the interrupter switch handle's current position.
 - a. If the handle is CLOSED, the actuator must be fully extended(below top)
 - b. If the handle is OPEN, the actuator must be fully retracted (below bottom)
 - c. If the handle is TRIPPED, the actuator will need to be manually jogged from the OPEN position before installation if the RSA.





- 3. Place the RSA on the face of the interrupter just to the left of the operator handle, resting the twist-lock magnets on the viewing window below the handle.
- 4. Slide the RSA to the right, ensuring the handle adaptor of the RSA fits around the handle, as shown.



5. Ensure that both magnets are seated flush against the interrupter housing, then turn the handles of the two twist-lock magnets 180° clockwise.

The RSA is now ready for remote 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.

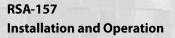
For detailed instructions on the operation of the RSO-I AR please see the RSO-I AR Manual.

- 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 OFF
- 6. If the switch is CLOSED and needs to be OPENED, then push and hold the TRIP button on the RSO-I AR until the switch fully opens.
- 7. If the switch is OPENED and needs to be CLOSED, then push and hold the CLOSE button on the RSO-I AR until the switch fully closes.





Notes





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RSA-157 Installation and Operation

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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).