

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

Installation and Operation

RSA-250

For Merlin Gerin Compact NS

Includes NSF250

15-250A



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. 4/30/2018

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.

1.1 Mounting Base Installation

This RSA includes a permanent mounting bracket that must be installed on the breaker prior to operation with the RSA.

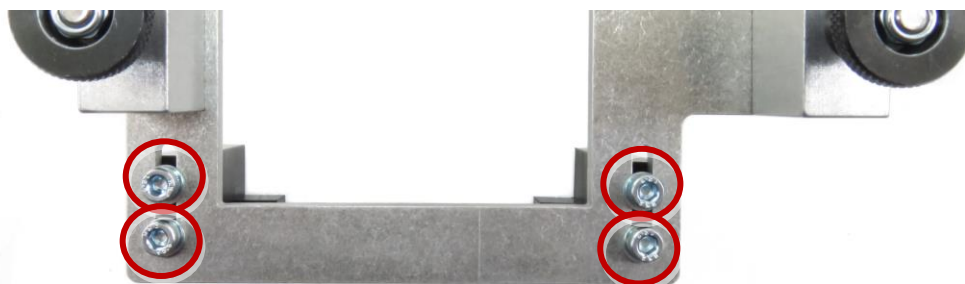
DANGER!

Before installing the mounting bracket, ensure that the breaker is deenergized. Failure to do so may result in an Arc-Flash and serious injury or death.

1. Ensure that the area around the breaker is free from any obstruction that may interfere with the proper installation of the RSA Base Plate.
2. Remove the upper screw from the top of the breaker, indicated below. Hold the faceplate of the breaker while removing this screw to ensure that the operating mechanism does not separate from the breaker contacts.



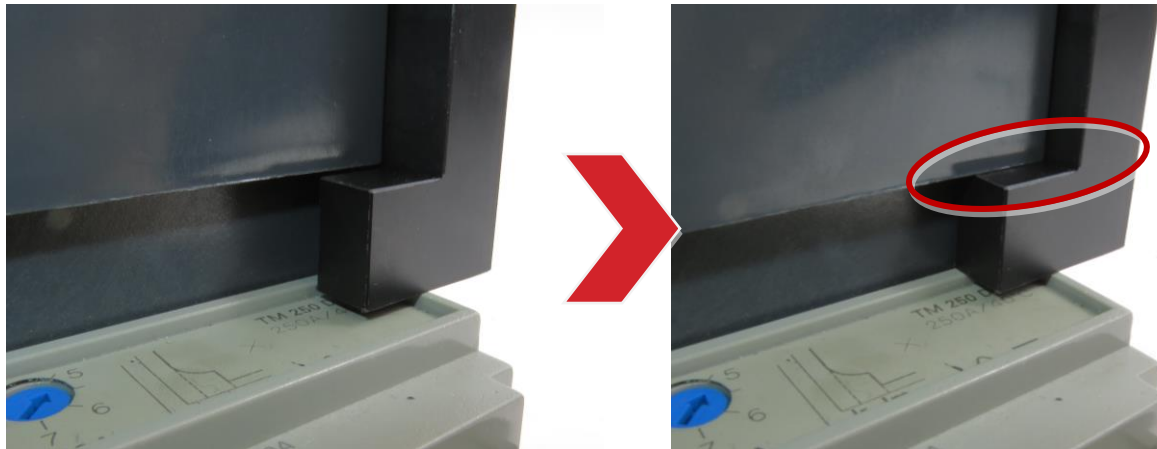
3. Loosen the 4 bolts on the bracket locking feet with a 4mm hex wrench, and then slide them in the slots so they are at the end of the slot travel.



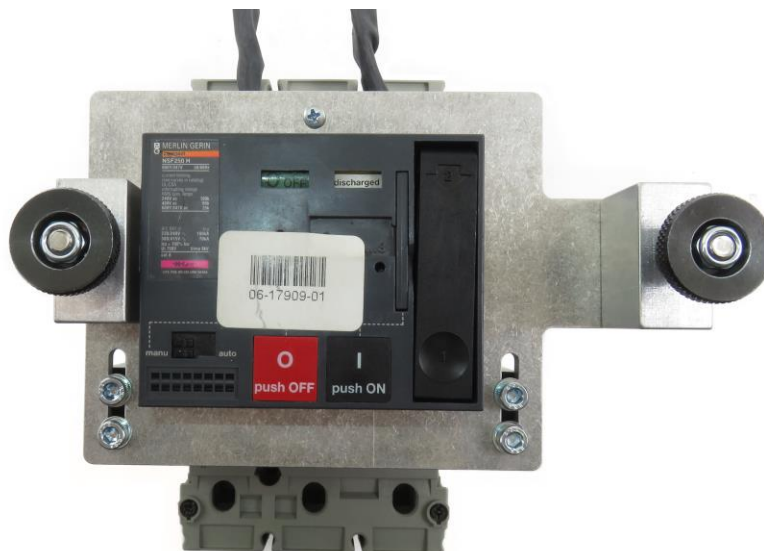
4. While keeping pressure on the breaker faceplate, slide the bracket on over the breaker, and insert the new screw included with the mounting bracket. Tighten the new screw a few turns with a #2 Phillips driver to ensure that the breaker faceplate will not separate. **DO NOT FULLY TIGHTEN AT THIS STAGE.**



5. Slide the black locking feet on the breaker mounting plate up to the breaker, until they grab the bottom edge of the lip on the breaker and click into place. Re-tighten the bolts on the bracket until the feet are secure.

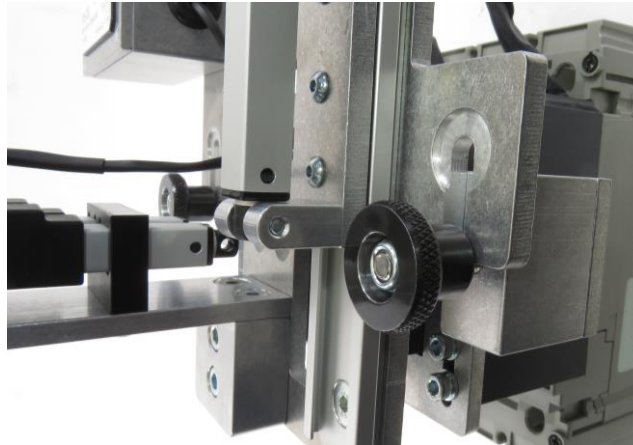


6. Now, fully tighten the replacement breaker faceplate screw with the #2 philips driver until it is secure. The Mounting Base is now ready for RSA installation.

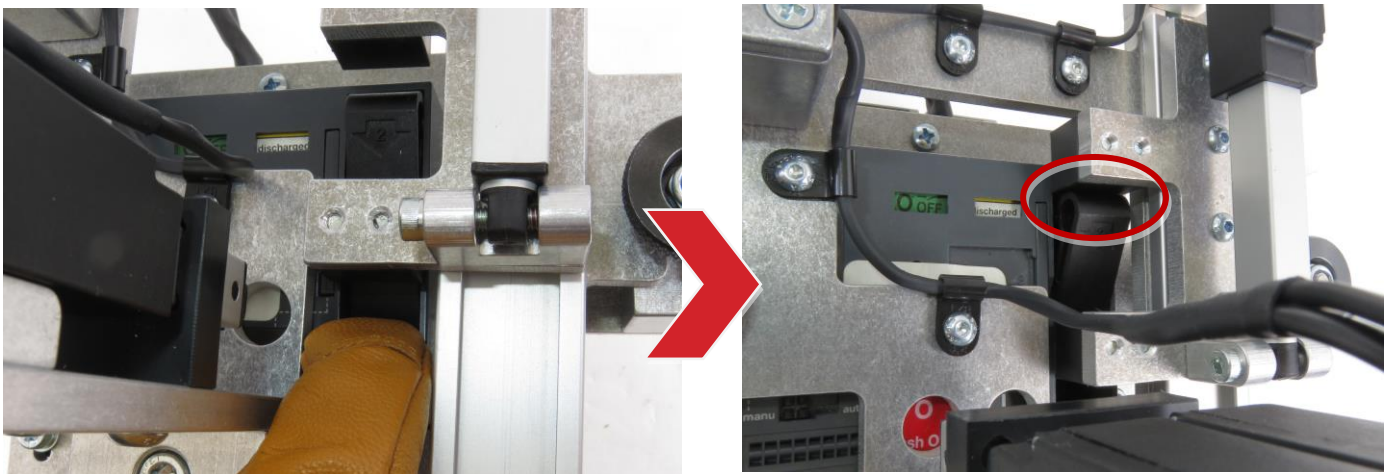


1.2 Operator Installation

1. Ensure that the breaker to be operated has the Mounting Base installed. If the mounting base is not installed, see the Mounting Base installation instructions in Section 1.1.
2. Loosen the knobs on the Mounting Base.
3. Slide the RSA partly over the posts on the Mounting Base.



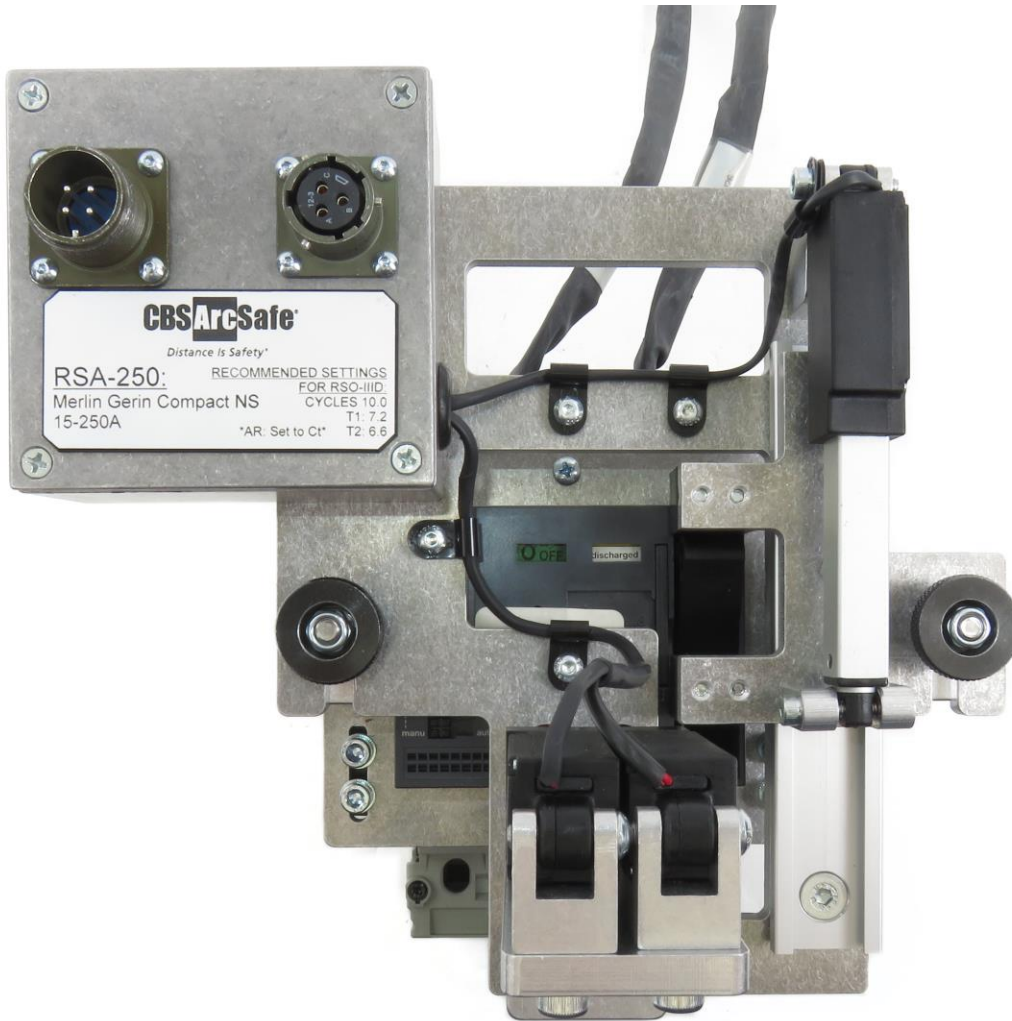
4. With the RSA partly on the posts, push the end of the charging handle down so that the charging handle pops up and contacts the plastic push block on the RSA charging mechanism. Once the arm makes contact and is held in place by the RSA, slide the RSA down fully onto the posts.



5. Ensure the button actuators are positioned properly over the shunt trip button on the front of the switch.



6. Tighten down the locking knobs on the Mounting Base 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-IIID are fully charged or that the unit is plugged into AC power.

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

1. Ensure that the RSA is properly installed. See the Installation Section for detailed instructions.
2. Connect the cables from the RSO-IIID to the RSA.
3. Turn the power switch on the RSO-IIID to the ON position.
4. Program the settings for the RSA into the RSO-IIID, if applicable. These settings will be found on a placard on the RSA. For more information on programming the RSO-IIID please refer to the RSO-IIID Technical Manual.
5. Ensure that the Auto-Retract (AR) function is set according to the instructions on the setting placard on the RSA. For detailed information on the AR function see the RSO-IIID instruction manual
6. Exit the arc flash boundary
7. Once the timers have been properly set press the CHARGE/CLOSE button to actuate the switch arm and charge the switch mechanism.
8. Press the CLOSE button to trip the switch with the shunt trip button.
9. Press the TRIP button to trip the switch with the shunt trip button.





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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).