

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-10

For Westinghouse/Cutler Hammer Ampguard
Legacy Style Handle Operator



Installation and Operation

Distance is Safety®

WHAT STANDS
BETWEEN YOU AND
ARC-FLASH DANGER?

**WE
DO.**

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Rev. 4/10/2018

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.

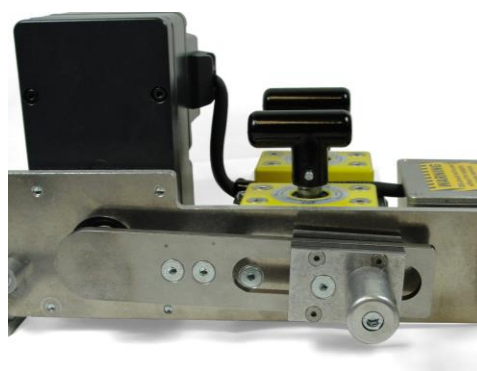
ATTENTION!

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



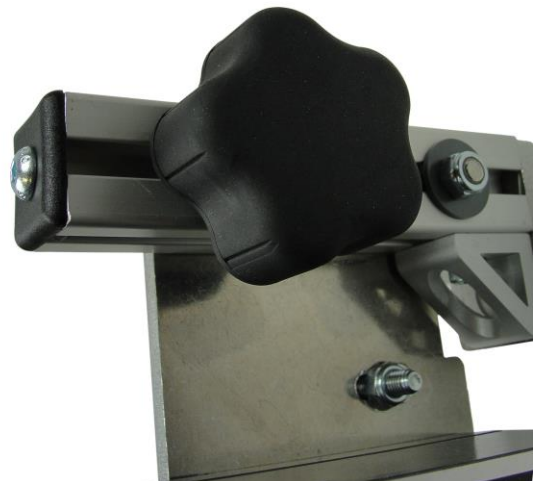
2. Prior to installation of the RSA, manually rotate the motor arm to the correct position corresponding to the breaker handle's current position.
 - a. If the breaker is ON, rotate the motor arm of the RSA to its upward position (below left)
 - b. If the breaker is OFF, rotate the motor arm of the RSA to its downward position (below right)



3. Place the RSA on the face of the breaker just to the right of the breaker arm.
4. Slide the RSA to the left, ensuring the handle adaptor fits inside the breaker handle, as shown below.



5. Ensure that the breaker locator is flush with the top of the breaker handle, as shown (below left). If the locator is not flush, it may be adjusted by loosening the black knob (below right) and sliding the locator in or out.



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 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 set according to the placard on the RSA. If not specified, leave AR turned OFF.
6. If the breaker is ON and needs to be turned OFF, then push and hold the TRIP button on the RSO-I AR until the breaker trips.
7. If the breaker is OFF and needs to be turned ON, then push and hold the CLOSE button on the RSO-I AR until the breaker is closed.



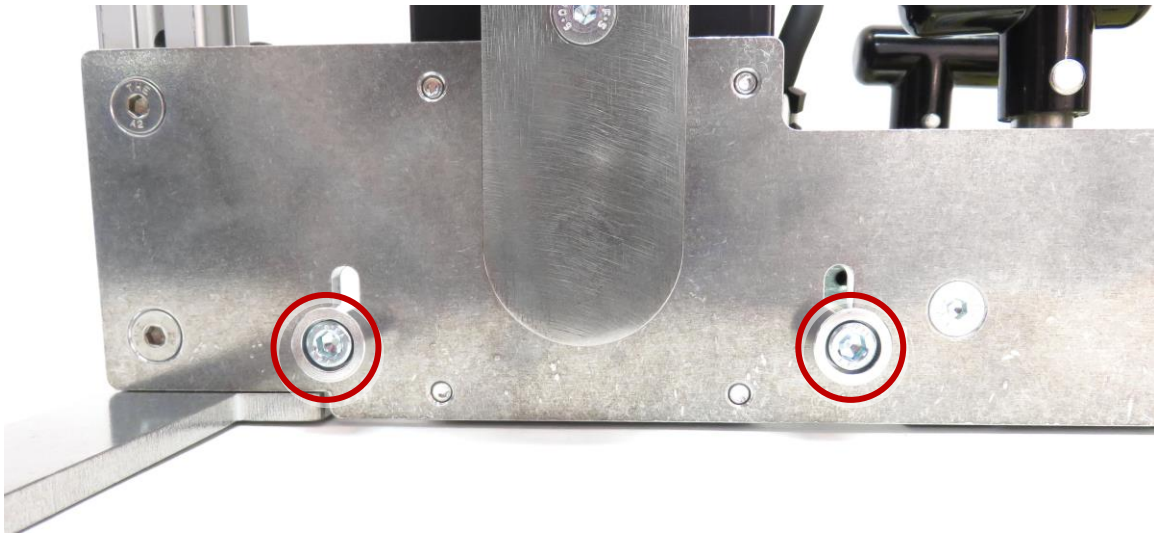
3 Adjustments

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.

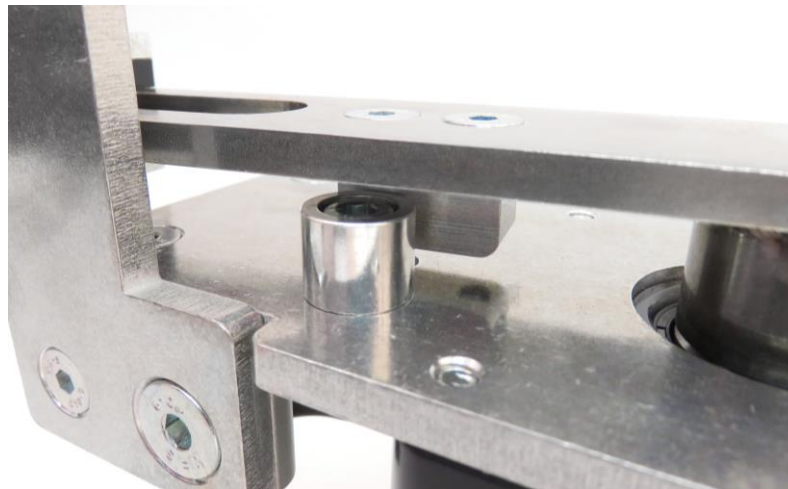
3.1 Travel Adjustment

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

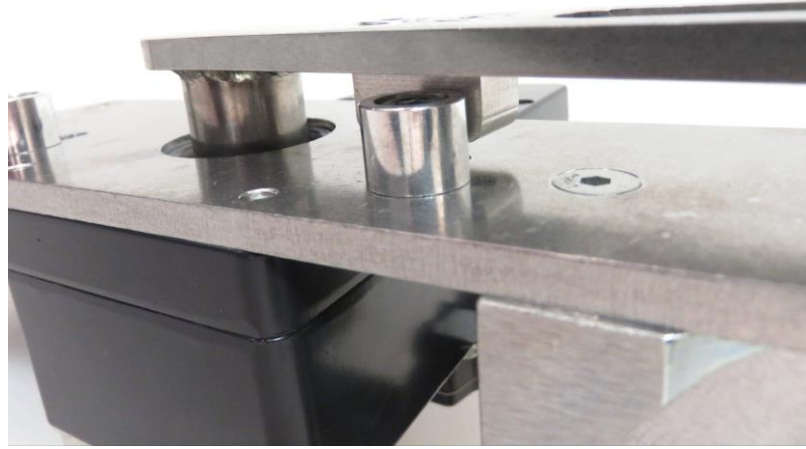
1. Install the RSA as directed in the Installation section.
2. Loosen the two bolts on the travel stops.



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 (shown below off of the breaker for clarity).



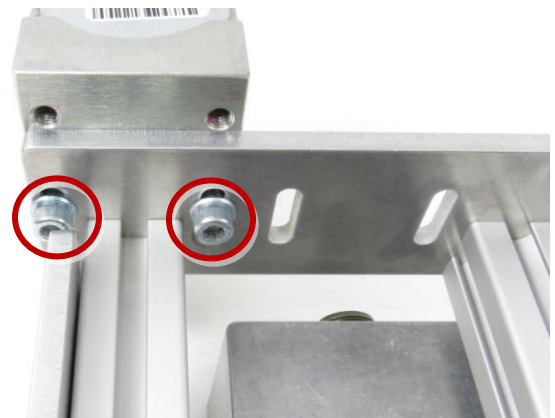
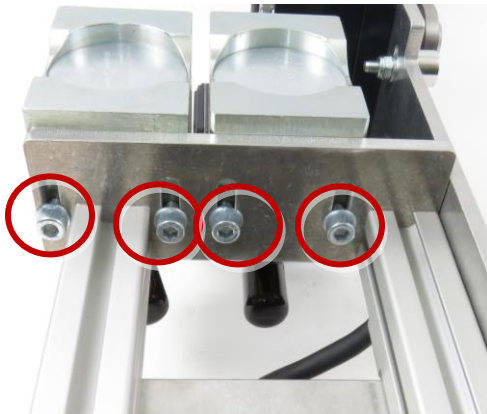
4. To set the RSA to stop the switch at the OFF position, tap the RSO TRIP button to carefully jog the RSA until the Handle Operator is at the OFF position (Note: the side to adjust will change depending on which orientation the RSA is set to). Slide the stop so it sits flush against the handle, and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



3.2 Depth Adjustment

Some variants of this switchgear come with a slightly raised panel around the switch. The depth adjustment on this RSA helps to accommodate for mounting differences between flush mounted switches, and those with raised door panels.

1. Loosen the bolts on the back of each magnet, as indicated below.



2. Install the RSA, as described in the Installation section of this manual.
3. Slide the magnets in or out as necessary during installation until they sit flush with the door panel.
4. Tighten the bolts loosened for adjustment.



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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).