

# CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

Installation and Operation

## RSA-126

For Federal Pacific DST-II

Close/Trip



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](http://www.cbsarcsafe.com)

Rev. 5/20/2016

## 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® 2013

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 device to be operated is free from obstructions that may interfere with proper installation of the RSA



2. Mount the RSA on the breaker face, ensuring the operator adapter on the RSA seats fully over the breaker operating knob.
3. Ensure both the locators on the RSA are flush to top and bottom of the operator escutcheon. See the Adjustments section for adjusting the RSA to fit, if necessary.



4. Turn the twist-lock magnet 180° 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. See the Installation section 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. Press and hold CLOSE to close the breaker.
7. Press and hold TRIP to open the breaker.



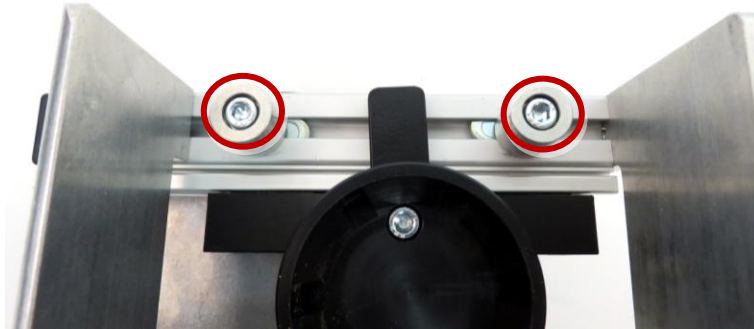
## 3 Adjustments

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

The RSA-34B 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 lock bolts on the travel stops.



3. To set the RSA to stop for the CLOSE operation, slide the travel stop out of the way, then Close the breaker, and set the left travel stop (when looking at the RSA while installed) so that it contacts the actuator at the point of max rotation for the Close direction. Re-tighten the lock bolt after adjustment.



4. To set the RSA to stop for the TRIP operation, slide the travel stop out of the way, then Trip the breaker, and set the right travel stop (when looking at the RSA while installed) so that it contacts the actuator at the point of max rotation for the trip direction. Re-tighten the lock bolt after adjustment.



### 3.2 Magnet Adjustment

The depth of the magnets on the RSA can be adjusted in order to avoid interference from items mounted to the switch door.

1. Loosen the two bolts on the magnet plate, as shown below.

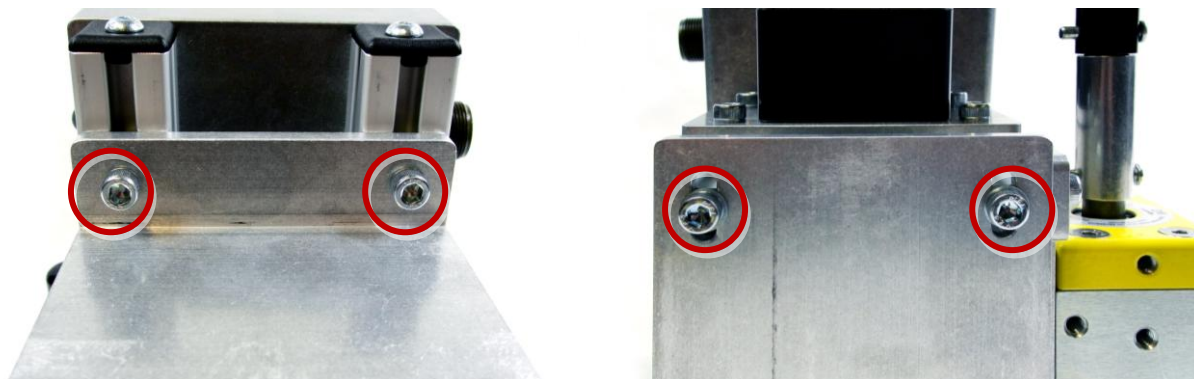


2. Slide the magnet left or right as necessary to position it so it adequately avoids any obstructions.
3. Re-tighten the bolts.

### 3.3 Locator Adjustment

The depth of the locators on the RSA can be adjusted slightly to accommodate some obstructions on the switch panel.

1. Loosen the two bolts on each locator plate.



2. Slide the top locator in or out to achieve proper depth and positioning.
3. Slide the bottom locator along the extrusion piece as required to properly align the locator with the bottom of the breaker escutcheon.
4. Install the RSA as described in the Installation section to ensure that the parts align as desired. Ensure that the actuator on the RSA seats properly on the panel, and that the magnets are seated flush against their mounting surfaces. If they are not, Remove the RSA and repeat the adjustment steps.
5. Remove the RSA, and re-tighten the bolts loosened in Step 1.





*Distance Is Safety*®

A Group CBS Company

RSA-126  
Installation and Operation

2616 Sirius Road  
Denton, TX 76208  
Tel: 877-4-SAFETY  
Fax: 940-382-9435  
Website: [www.CBSArcSafe.com](http://www.CBSArcSafe.com)  
Email: [info@CBSArcSafe.com](mailto: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).