CBS ArcSafe®

RSA-57C

(For Square D K Frame)

Installation and Operation

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 consists of various application specific remote 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 consists of various application specific remote operating devices. These products allow service personnel to 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 operator's user interface and the power supply for the device. When paired with an applicable CBS ArcSafe® device, this portable standalone system allows service personnel to 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.

1 – Installation

Attention
The location of certain items such as mimic bus, stickers, and/or placards may interfere with the proper installation of the RSA-57C. Please remove or reposition these items before installing the RSA-57C.

1. Ensure that the breaker is free from any obstructions that might interfere with the proper installation of the RSA-57C.

2. Place the RSA-57C over the face of the breaker so that the fork on the motor arm surrounds the breaker switch.

3. Ensure that the switch locator is seated flush against the switch housing.

4. Secure the RSA-57C to the breaker by turning the magnet handle 180º clockwise
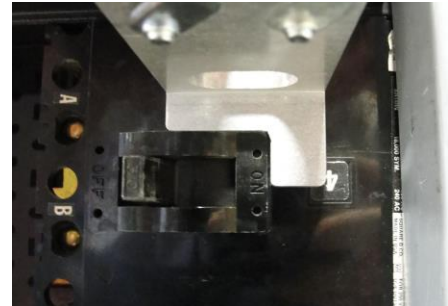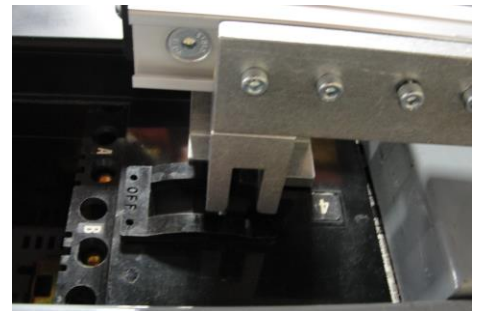
SHOWN WITH RSA REMOVED FOR CLARITY
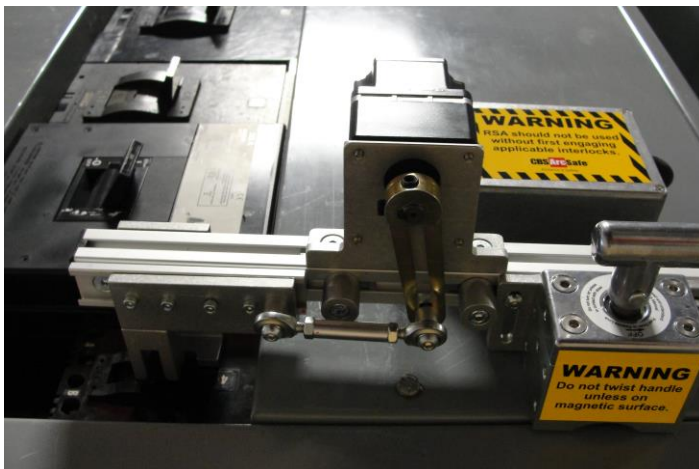
2 – Operation

<table>
<tr><td>Attention</td></tr>
<tr><td>Please ensure that all cables are clear of moving parts. Failure to do so may result in damage to cables and/or actuator.</td></tr>
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<table>
<tr><td>Attention</td></tr>
<tr><td>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.</td></tr>
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1. Ensure that the RSA-57C is properly installed on the breaker. See previous section for detailed instructions.
2. Plug the cable from the RSO-1 AR to the motor control box of the RSA-57C.
3. Exit the arc flash area
4. Ensure that the Auto-Retract (AR) function is off.
5. Turn the power switch of the RSO-1 AR to the ON position.
6. Press CLOSE to Close the breaker
7. Press TRIP to Trip the breaker.

3 - Adjustments

Depth Adjustment

1. Place the RSA-57C on the face of the breaker with the fork on the motor arm positioned over the breaker switch.
2. Secure the RSA-57C to the breaker by turning the magnet handle 180º clockwise
3. Loosen the two bolts on the magnet bracket.
4. Slide the RSA-57C up or down to reach the proper depth so that the locator is properly seated against the housing.
5. Retighten the magnet bolts

Lateral Adjustment

If any adjustments are made here then the travel of the RSA-57C will have to be adjusted as well.

1. Place the RSA-57C on the face of the breaker with the fork on the motor arm positioned over the breaker switch.
2. Secure the RSA-57C to the breaker by turning the magnet handle 180º clockwise
3. Loosen the two bolt on the switch locator.
4. Slide the locator to the left or right until the locator is properly seated on the housing.
5. Retighten the locator bolts.

Travel Adjustment

The travel length for the motor arm may be adjusted avoid damage to the breaker.

1. Place the RSA-57C on the face of the breaker with the fork on the motor arm positioned over the breaker switch.
2. Secure the RSA-57C to the breaker by turning the magnet handle 180º clockwise
3. Loosen the bolts on the two motor stops.
4. With the breaker in the ON position slide one of the motor stops toward the arm and tighten the bolt.
5. Switch the breaker to the OFF position slide the remaining stop to the arm, and tighten the bolt.

Notes

Distance Is Safety®

CBSArcSafe®

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