

# CBS ArcSafe®

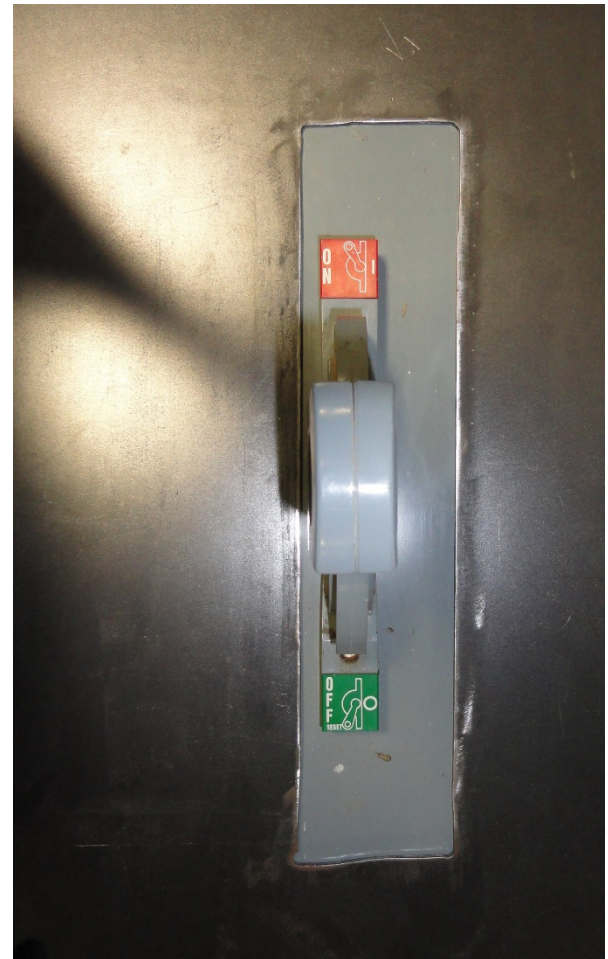
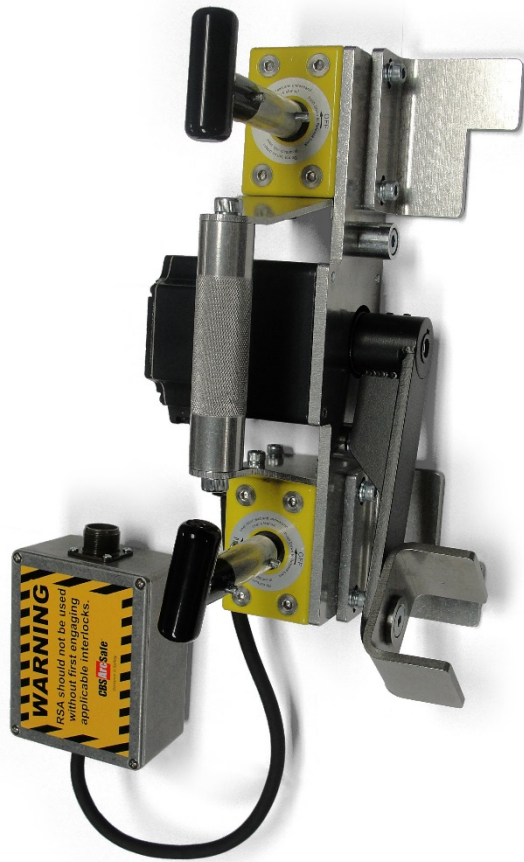
Distance Is Safety®

A Group CBS Company

# Installation and Operation

## RSA-41B

Allen Bradley Centerline 2100 MCC  
Main, Plastic Handle (Black Or Gray)



**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. 1/22/2019

## 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 electrical equipment, please ensure that it matches the equipment discussed. If the equipment does not match that described and shown on the cover of this document then please contact CBS ArcSafe® for more information.

## **ATTENTION!**

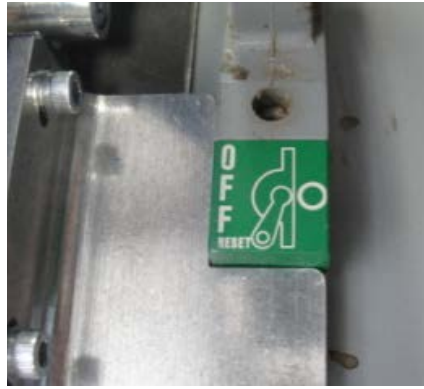
The location of certain items such as mimic bus, stickers, and/or placards may interfere with the proper installation of the RSA. Please remove or reposition these items before installing the RSA.

1. Ensure that the area around the handle operator is free from any obstruction that may interfere with the proper installation of the RSA which may include Kirk locks, panel latches, or other hardware.
2. Position the motor arm of the RSA-41B to match the breaker handle before installation.
  - a. If the handle operator is in the ON or CLOSED position, manually rotate the motor arm upwards until it hits the upper stop.
  - b. If the handle operator is in the OFF or OPEN position, then manually rotate the motor arm downward until it hits the lower stop.

## **ATTENTION!**

The RSA-41B may be installed and operated from either side of the handle operator. In the event that the area to the left of the handle operator is free from obstruction this will be the side from which the handle operator will be operated. If the area to the left of the handle is not free from obstructions then the RSA-41B will be operated from the right side of the handle operator.

3. Place the RSA-41B on the face of the cabinet and position the stainless steel handle adapter around the handle as shown in the image below (left).
4. Ensure that the upper and lower locators wrap around the base of the handle operator, as shown below (right).



5. Secure the RSA-41B by turning the handle magnets 180 degrees.
6. The RSA-41B is ready for remote operations.

41B to the panel by turning the handle of the two twist-degrees clockwise.

ready for remote



## 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 OFF.
6. If the handle operator is ON and needs to be turned OFF then push and hold the TRIP button on the RSO-I until the handle operator is OFF.
7. If the handle operator is OFF and needs to be turned ON then push and hold the CLOSE button on the RSO-I until the handle operator is ON.







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RSA-41B  
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).