

# Installation and Operation

# CBS ArcSafe<sup>®</sup>

## RSA-124

(For Terasaki S400)





# 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.

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# 1 - Installation

## Danger!

Before operating any electrical equipment, make sure that it matches the equipment discussed. If it does not match the equipment described, 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-124. Please remove or reposition these items before installing the RSA-124.

1. Ensure that the breaker is free from any obstruction that may interfere with the proper installation of the RSA-124
2. Make sure that the RSA-124 grip matches the position of the breaker. If the breaker is OFF then move the grip toward the motor. If the breaker is ON the move the grip away from the motor
3. Place the RSA-124 on the face of the breaker and ensure that the locator bracket is flush around the breaker switch.
4. Secure the RSA-124 to the breaker by turning the handles of both magnets 180 degrees clockwise.

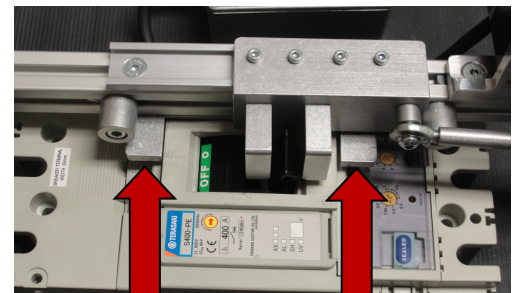
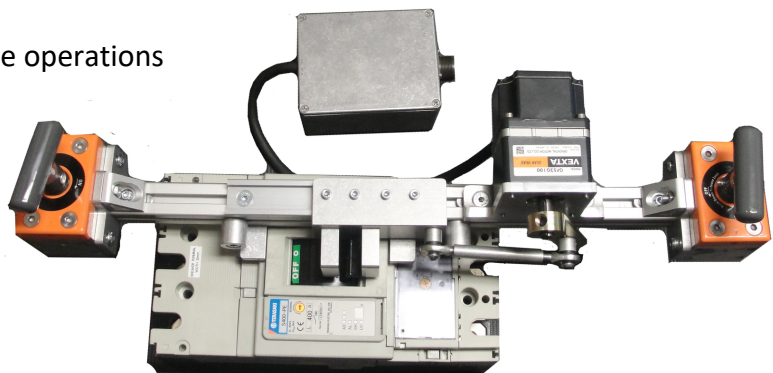


FIGURE 1 - LOCATOR BRACKET SHOWN

The RSA-124 is now ready for remote operations



## 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-124 is properly installed. For detailed instructions see Installation section.
2. Plug the RSO-I AR into the motor control box of the RSA-124.
3. Exit the arc flash boundary.
4. Power the RSO-I AR on.
5. Press and hold CLOSE until the breaker closes.
6. Press and hold TRIP until the breaker trips.



FIGURE 4 - RSO-I AR FACEPLATE



FIGURE 3 - RSO-I AR

# Adjustments

## Danger!

All adjustments should be done a spare or de-energized breaker.

If the breaker does not fully open or close during operation then the hard stops located on the outside of the grip will need to be adjusted.

1. Loosen the bolt holding the hard stop in place.
2. Slide the hard stop outward in  $\frac{1}{2}$  inch increments.
3. Retighten the bolt for the hard stop.
4. Test and repeat if needed.

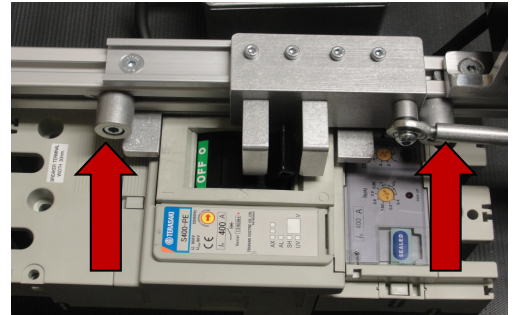


FIGURE 5 - HARD STOPS



*Distance Is Safety*<sup>®</sup>

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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).*