

CBS ArcSafe®

RSA-104 (For CH/Westinghouse DA 50)



Distance is Safety®

CBS Arc Safe™

A Group CBS Company

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1.0 Installation

DANGER!

Ensure that the breaker to be serviced matches the breaker listed. If the breaker to be serviced does not match, please call CBS ArcSafe™ for more information regarding remote switching applications for your particular model of breaker.

1. Prior to installation, inspect the breaker to be remotely operated. Please note the style of the vents located below the breaker's charge/close arm. Two styles of vents are shown here:



Style A



Style B

2. Identify which style of vents are present on the gear to be remotely operated, either style "A" or "B". The RSA-104 comes configured for Style A type vents. However, if Style B type vents are present, the actuator can be adjusted to accommodate these as well.
3. To install the RSA-104 Remote Switch Actuator (RSA), first ensure that the handle adapter attached to the RSA's motor is properly aligned with the breaker's charge/close handle position.
4. Next, insert the two lower locating tabs located on the bottom side of the RSA into the vents as shown. NOTE: For Style B type vents, the tabs will be located to fit one set of vents to the right.



5. Rotate the actuator toward the handle, ensuring that the locating tabs are still secure. Place the handle adapter over the breaker's handle and continue to rotate the actuator onto the breaker as shown.

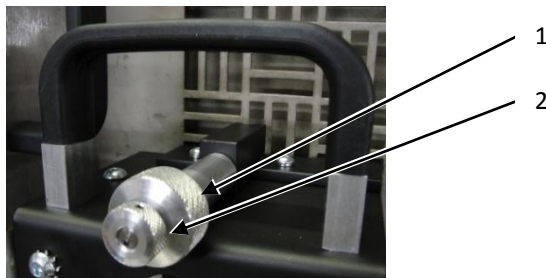


6. Insert the two upper locating tabs into the vents and lock the magnet into place by rotating the handle 180° clockwise.

ATTENTION!

The location of certain items such as mimic bus, stickers, and/or placards may interfere with the installation of the RSA. These items may need to be removed or repositioned for proper RSA installation.

7. Next install the threaded locking hook. Loosen the locking collar and use the locating collar to insert the hook through the vertical vent and rotate 180° so that the hook is facing downward. To tighten, hold the locating collar in place and turn the locking collar clockwise until the hook is secured against the inside of the breaker.



1. Locking Collar
2. Locating Collar

8. Lastly, install the trip solenoid assembly so that the head of the solenoid is positioned roughly in the center the hole as shown. Secure the assembly to the cabinet by rotating the handle of the attached magnet 180° clockwise.



9. The RSA-104 unit is now ready to operate.

2.0 Operation

1. Ensure that the unit is properly installed on the circuit breaker as described in Section 1.0 and that the charge/close arm is in the up position.
2. Install the 3 pin twist style connector from the RSO-III onto the motor control box and install the 4 pin threaded connector onto the trip solenoid assembly.

ATTENTION!

Please ensure that all cables are clear of moving parts. Failure to do so could damage cables and/or actuator.

3. This RSA was tested on a fully maintained and functioning breaker within the CBS ArcSafe facility. During this testing the optimum settings for closing the breaker were found and recorded on a placard located on the RSA. Please refer to these settings when setting the “# Strokes”, “T1”, and “T2”. Once the timing is correctly set, the unit is now fully operational and ready to use.

DANGER!

These settings may or may not apply to your breaker exactly as listed. These settings are only a starting point for remote operations. If during the operation the desired effects are not achieved, these may be adjusted.

4. Power on the RSO-III.

ATTENTION!

Please ensure that either the batteries on the unit are fully charged or the unit is plugged into AC power.



5. Press the “CHARGE/CLOSE” button to actuate the breaker arm downward to close the breaker.

DANGER!

Built onto the RSA-104 there are 2 microswitch stops that prevent the RSA handle adapter from over rotating. However, these are not meant to make the applicable settings obsolete, they are simply in place to stop the motion of the actuator for small amounts of over-travel and may be adjusted to achieve optimum results on the gear being operated.

6. The breaker is now able to be tripped. Press the “TRIP” button located on the RSO-III faceplate to open the breaker.

3.0 Included Items

RSA-104 Parts List		
Item	Description	CBS ArcSafe™
		Part Image
1	RSA-104 Charge/Close Assembly	
2	RSA-104 Trip Solenoid Assembly	



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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).*