

Installation and Operation

CBS ArcSafe®

RSA-180

(For Masterpact NT)



Distance Is Safety®

CBS ArcSafe®

A Group CBS Company

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1.0 Installation

DANGER!

**Ensure that the switchgear to be remotely operated matches the switchgear discussed on the cover page. If the switchgear does not match, please contact CBS ArcSafe® for more information regarding remote switching applications for your particular model.*

Step 1: Ensure there are no obstructions in the area surrounding the outer escutcheon prior to installing the RSA-180.

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.



Step 2: Place the RSA-180 over the outer edge of the escutcheon and ensure that the device sits flush against the panel. Engage the two twist-lock magnets by turning the handles of each 180° clockwise. NOTE: The location of these magnets is adjustable for users to relocate them should they interfere with any non-removable object.



Step 3: Next, verify that the two solenoid plungers are properly aligned with the CLOSE and TRIP buttons as shown on the figure to the right. If they are not, adjust the location of the solenoids until they are properly aligned. The recommended distance from the plunger to the pushbutton is 1/8”.



Step 4: Next, pull the charging arm out away from the breaker and place the black composite handle adapter over it. Press the adapter onto the charging arm until it fits firmly and completely over the charging arm as shown to the right.



Step 5: Connect the charging linkage to the handle adapter by inserting the rod-end into the clevis and aligning the hole (Manual rotation of the motor arm may be necessary). Next, insert the clip through the rod-end and clevis and press the fitted end of the clip over the clevis to secure the linkage in place.

The RSA-180 is now properly installed and ready for operation.



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 arm is in the “up” position firmly against the hard stop.
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 CLOSE/TRIP solenoid pigtail.

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 operating 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 settings 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 charging arm the prescribed number of times to charge the breaker.

DANGER!


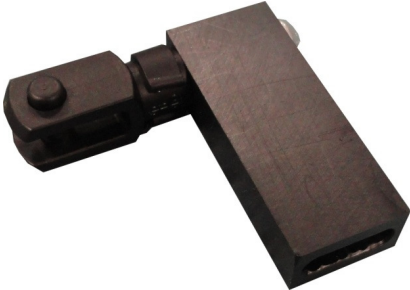
There are 2 hard stops that prevent the charging handle linkage from over rotating. These are not meant to make the applicable settings obsolete; they are in place to stop the motion of the motor for small amounts of over-travel and may be adjusted to achieve optimum results on the gear being operated. Please ensure the rotation of the motor is fully operating the handle in both the “UP” and “DOWN” directions, adjust the hard stops as necessary to achieve this result.

6. Once the breaker has been successfully charged, it may now be close. Press and hold the “CLOSE” button to close the breaker.
7. Once the breaker has been close, it may now be tripped. Press the “TRIP” button located on the RSO-III faceplate to open the breaker.

ATTENTION!

For any questions pertaining to the operation of the RSO-III, or more detailed RSO-III instructions, please see the manual that was included with the RSO-III.

3.0 Components

RSA-180 Component List		
Item	Description	CBS ArcSafe®
		Part Image
1	RSA-180 Assembly	
2	Charging Handle Adapter	



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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).*