CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-56B

For GE MCCB - Q-Line, Three Pole Gang 125A >
Types THQB, THHQB, THQC, THHQC, THQL, THHQL, THQP, TQ,
TQB,TQC, TQL, TXQB, TXQC, TXQL
Does Not Include DIN Rail Mount & Quick Connect

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

Rev. 9/18/2015

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

1 Installation

1. Ensure that the breaker face is free from any obstruction that may interfere with the proper installation of the RSA.
2. Align the locator on the RSA to the edge of the breaker on OFF side, as shown.
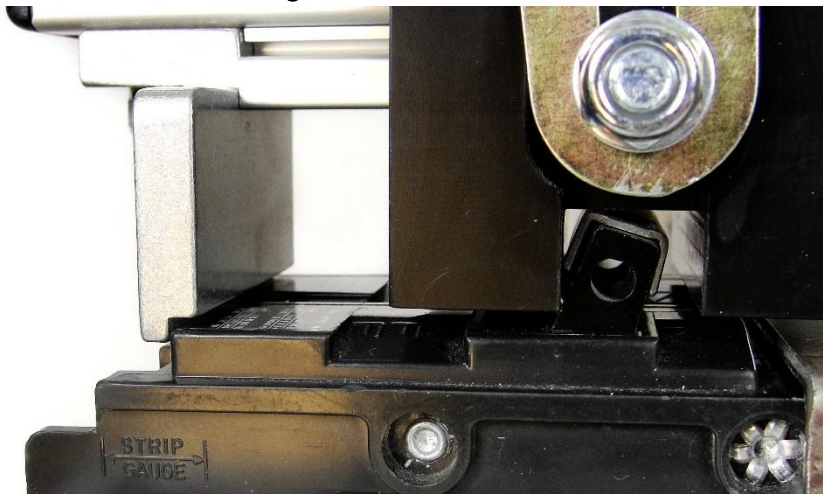
3. Ensure the RSA handle adapter fits properly over the breaker switch.
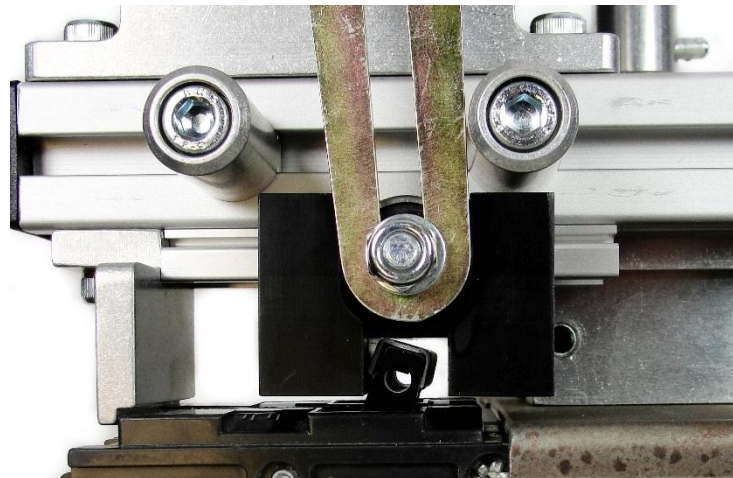
4. Turn the handles of the twit-lock magnets 180° clockwise to lock the RSA in place
5. Place the motor control box so that the cord is out of the way of any moving parts.

The RSA is now ready for remote operation

2 Operation

1. Ensure that the RSA is properly installed. See Section 3 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 switch is OFF and needs to be ON, press and hold the CLOSE button on the RSO-I AR until the breaker is turned ON.
7. If the breaker is ON and needs to be OFF, press and hold the TRIP button on the RSO-I AR until the breaker is turned OFF.
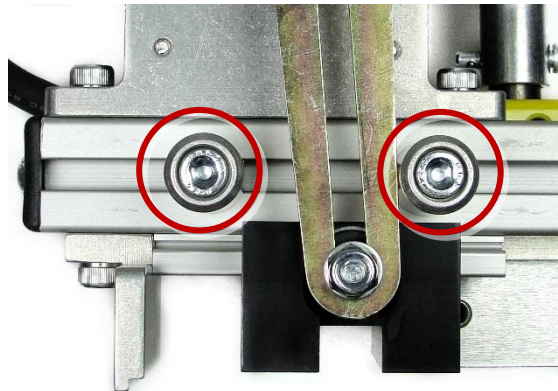
3 Adjustments

The RSA comes adjusted from the factory to fit most common configurations, and should not need to be adjusted in most cases. However, if adjustments do need to be performed, it is recommended that they be done on de-energized and isolated equipment to prevent possible damage or injury.

3.1 Travel Adjustment

The travel length for the motor arm may be adjusted to avoid damage to the switch.
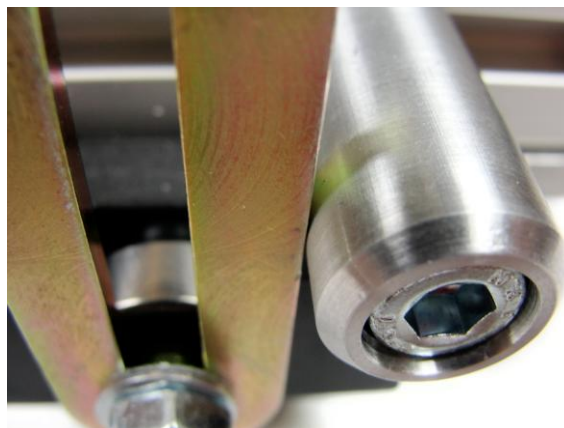
1. Install the RSA on the face of the switch as described in the Installation section.
2. Loosen the lock screws on the two travel stops.

3. With the breaker and RSA in the OFF position, slide the OFF travel stop so it contacts the actuator arm.

4. With the breaker and RSA in the ON position, slide the ON travel stop so it contacts the actuator arm.

3.2 Depth Adjustment

Adjust the depth of this RSA to ensure the locator seats properly on the breaker, and the breaker handle is properly positioned within the actuator on the RSA

1. Loosen the two bolts on the magnet mount.

2. Instll the RSA as described in the Installation section of this manual.
3. Slide the RSA on the magnet mount so that the locator is flush against the breaker, and the breaker handle is properly positioned within the RSA actuator.
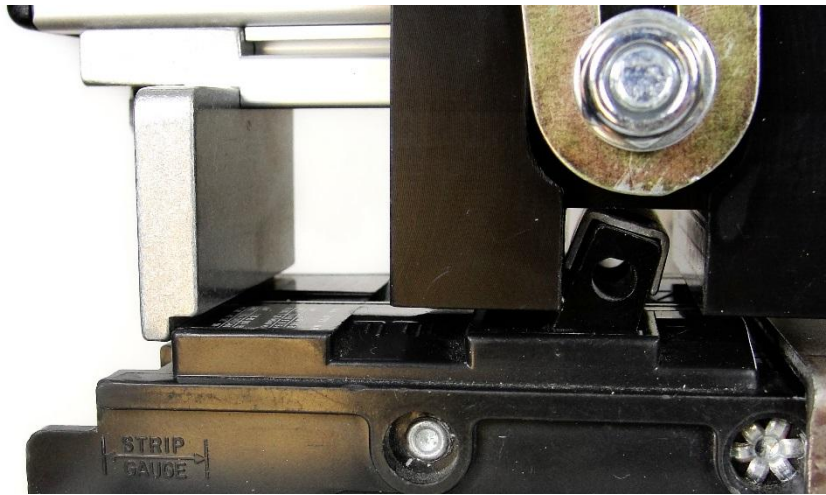
4. Re-tighten the bolts loosened during adjustment.

CBS ArcSafe®

Notes

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RSA-56B
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).