

Installation and Operation

CBS ArcSafe®

Distance Is Safety®

A Group CBS Company



RSK-SACE 3

For Emax 2.1-2.6
Type B and Type C



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. 8/29/2025

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

Published and distributed by:
CBS ArcSafe®
2616 Sirius Road
Denton, Texas 76208

A division of:
GroupCBS, Inc.®
P.O. Box 1557
Gainesville, Texas 76241

Copyright CBS ArcSafe® 2025

Printed in the United States of America
Reproduction, adaptation, or translation without prior written permission is prohibited except as is allowed by law.

Table of Contents

Table of Contents..... 1

1.0 Warranty..... 2

2.0 Safety Information..... 2

 2.1 Finger Pinch Points.....5

 2.2 Magnet Strength5

3.0 Specifications..... 4

4.0 Battery Information..... 5

 4.1 Battery Requirements.....5

 4.2 Battery Life.....5

 4.3 Battery Replacement.....5

 4.4 Battery Connection & Disconnection6

 4.5 Static Discharge6

5.0 Installation.....7

 5.1 RSK Installation.....7

6.0 Operation..... 11

 6.1 Controller Overview 11

 6.2 Operation 12

7.0 Care and Storage 13

 7.1 Cleaning Debris from Magnets..... 13

 7.2 Storage..... 13

1 Warranty

CBS ArcSafe® guarantees all products manufactured by CBS ArcSafe® only against defects in materials and/or workmanship for a period of twelve (12) months commencing on the date the product is received by the customer. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CBS ArcSafe® will, at its option and its cost (excluding shipping expenses) repair, replace or refund the purchase price of any product manufactured by CBS ArcSafe® which has a covered defect in materials and/or workmanship. THIS IS CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY. IN NO EVENT WILL CBS ARCSAFE'S® LIABILITY FOR DAMAGES (WHETHER ARISING FROM BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE) EXCEED THE PURCHASE PRICE OF THE PRODUCT CONCERNED NOR WILL CBS ARCSAFE® BE LIABLE FOR PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS) EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty does not cover damage caused by accident, improper care, negligence, normal wear and tear, natural causes, unlicensed repairs, and incompetent supervision. This warranty also does not cover repairs or replacements made by unauthorized individuals except when agreed to in writing. CBS ArcSafe® reserves the right to disallow warranty repairs if the unit has been disassembled or misused, as determined by CBS ArcSafe® in good faith. Please contact us at (877) 472-3389.



2616 Sirius Road

Denton, TX 76208

(940) 382-4411

(877) 472-3389

WWW.CBSArcSafe.com

2 Safety Information

2.1 Finger Pinch Points

Keep fingers clear of the bottom of the actuator during operation.

3 Specifications

Mechanical

Projected Life:	20,000 Operations
-----------------	-------------------

Electrical

Operating Voltage	12 Volts DC
Fuse:	3 Amps
Power Supply	8 AA Alkaline Disposable Batteries. When used properly, a single set of batteries yields hundred of operations
Control Cable	30ft Length (9.1 Meters), 5-Conductor, extra flexible, PUR Installation
Controller	Requires two-handed operation. The “Enable” button must be depressed while depressing the “ON” or “OFF” buttons. A programmable micro-controller manages control inputs, linear actuators, and performs timing functions to protect the actuator in a stalled condition. Intelligent “H-Bridge” motor drivers provide start/stop/braking actuator functions.

4 Battery Information

4.1 Battery Requirements

- Eight (8) AA alkaline cells are required. Carefully observe polarity when installing cells.
- Rechargeable batteries are not recommended.

4.2 Battery Life

- A set of fresh alkaline cells should give hundreds of operations.
- The Chicken Switch® is designed as a portable device. It is not designed to remain with the control unit connected to the actuator for extended periods of time. To do so will deplete a fresh set of batteries in approximately four to five days.

4.3 Battery Replacements

- ALWAYS disconnect the control cable before replacing batteries to avoid possible static damage of the electronics!
- Turn the control station upside down, remove the endplate retaining knob. Remove the endplate and slide the cover out as shown above.

4.4 Battery Connection & Disconnection

4.5 Static Discharge

CAUTION: Static Discharge Potential

- To avoid possible damage to electronic components disconnect the control cable before replacing batteries.

WARNING

To avoid possible damage
to electronic components
disconnect control cable
before replacing batteries.

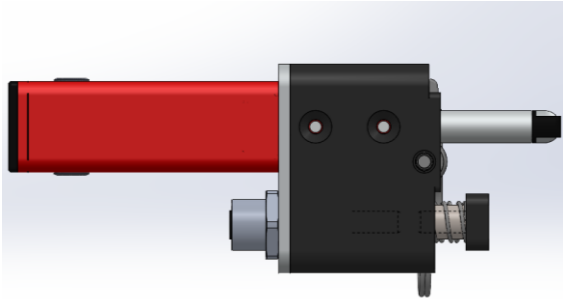
5 Installation

DANGER!

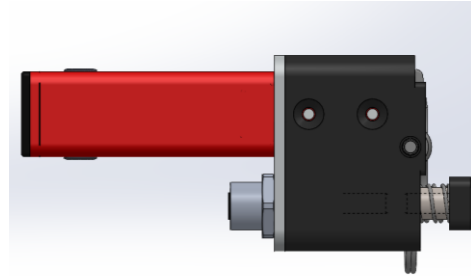
Before servicing any breaker, make sure that it matches the breaker discussed. If the breaker does not match the breaker described above, please call CBS ArcSafe® for more information.

5.1 RSK Installation

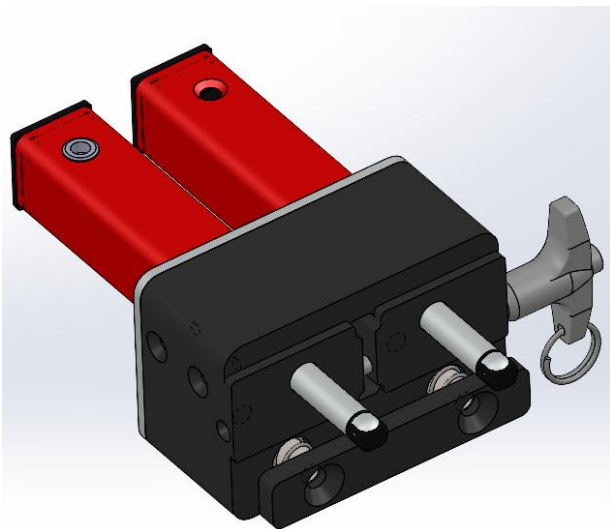
1. Before installing the RSK, verify that the plungers are fully retracted. The device cannot be installed on the breaker unless the plungers are fully retracted.



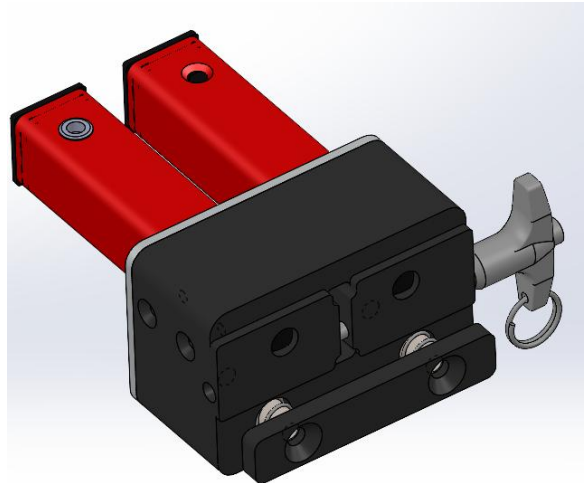
Actuators Extended



Actuators Retracted

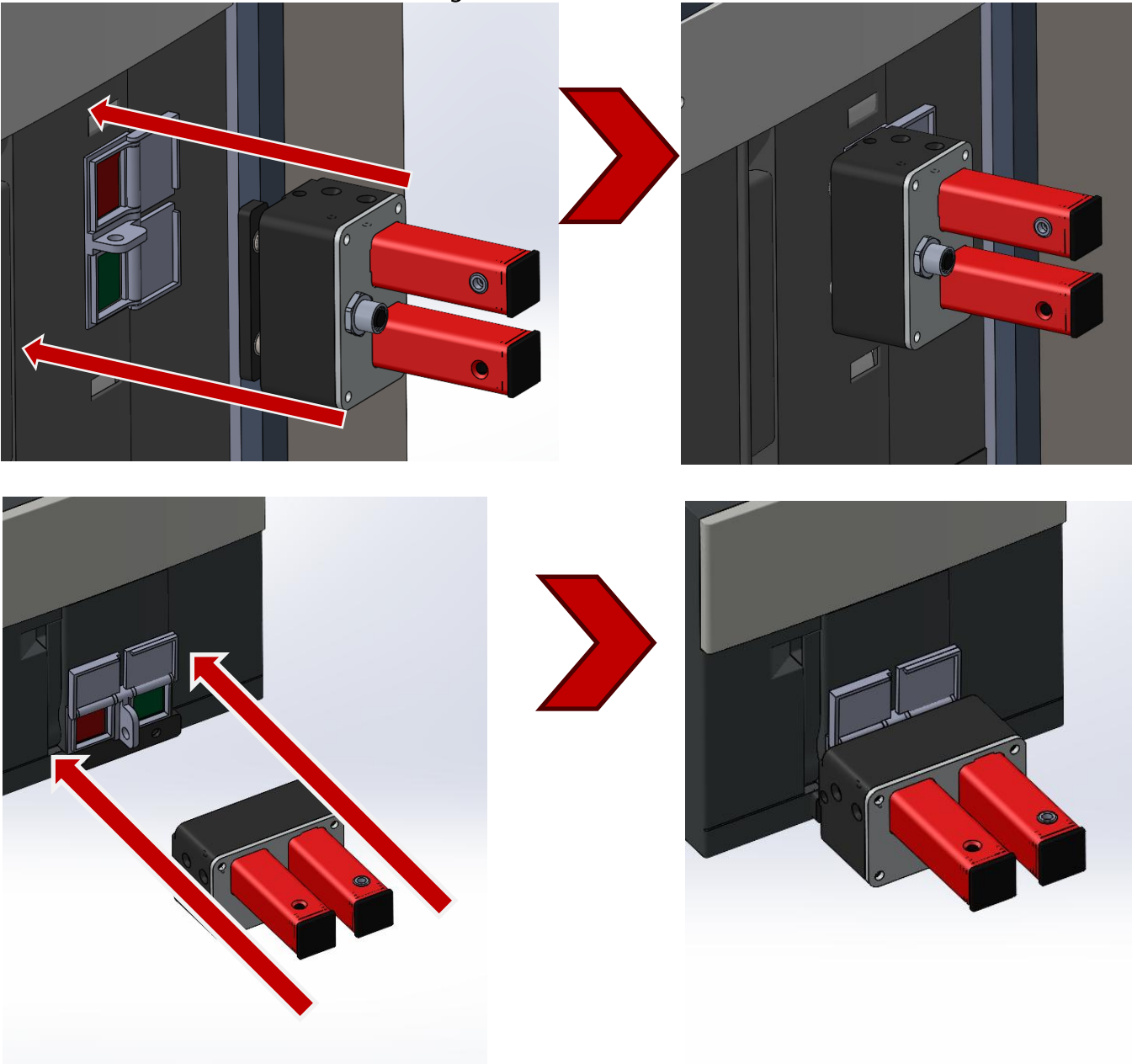


Actuators Extended

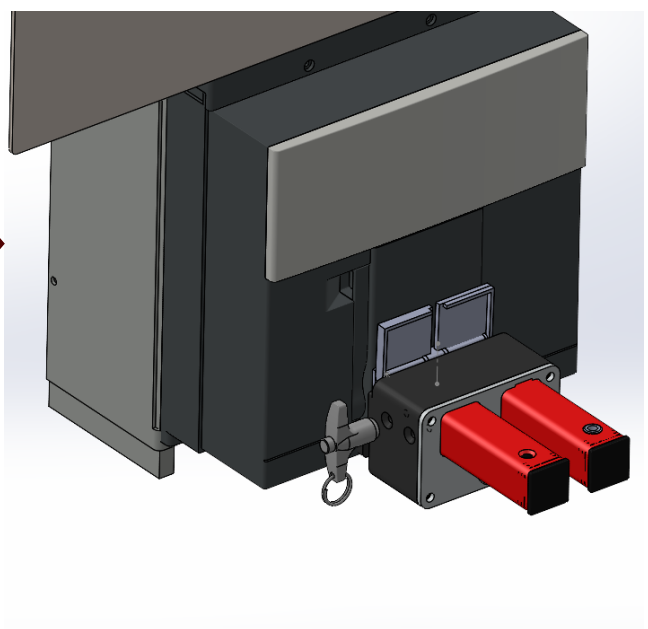
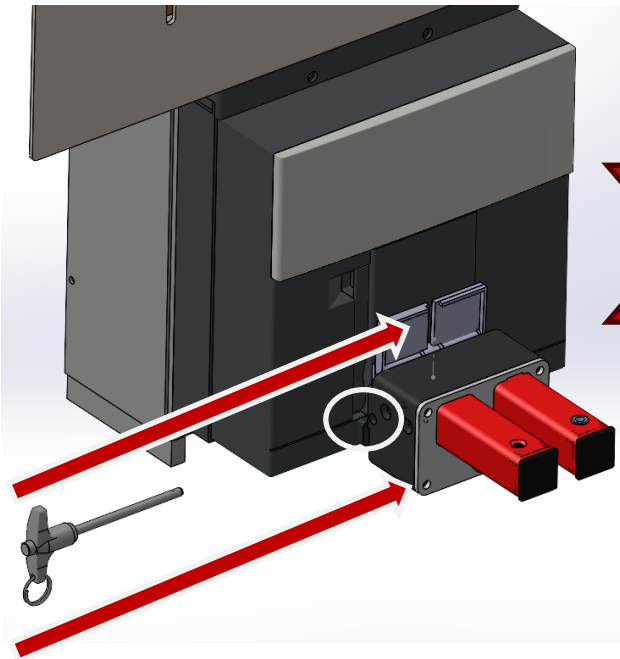
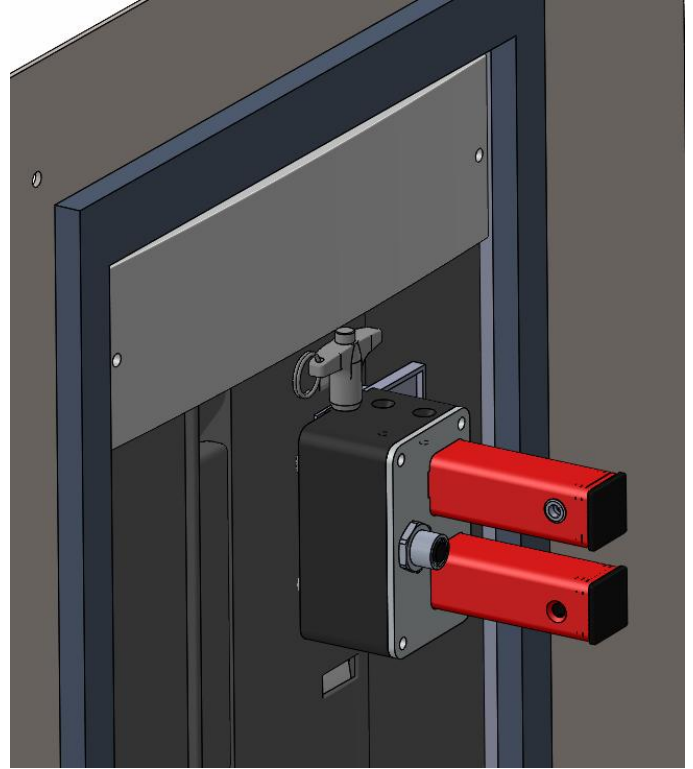
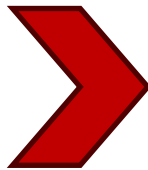
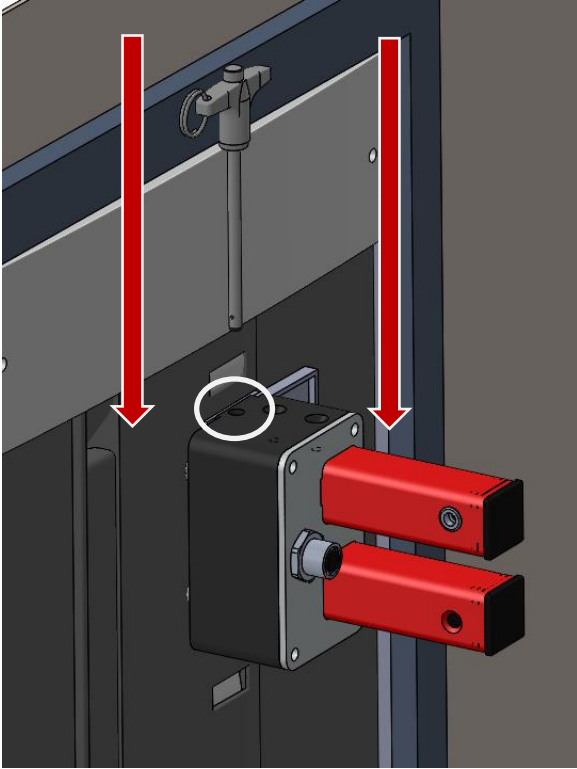


Actuators Retracted

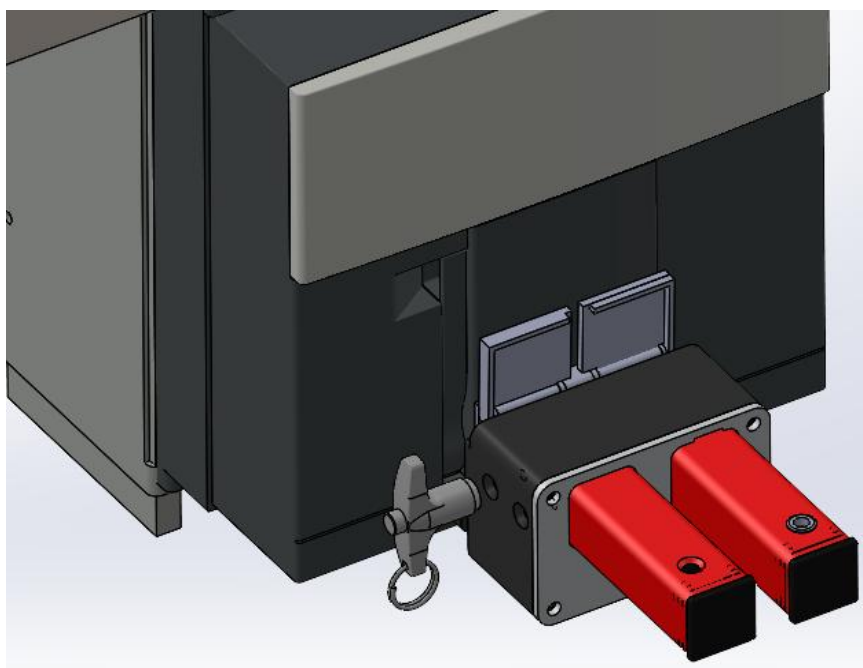
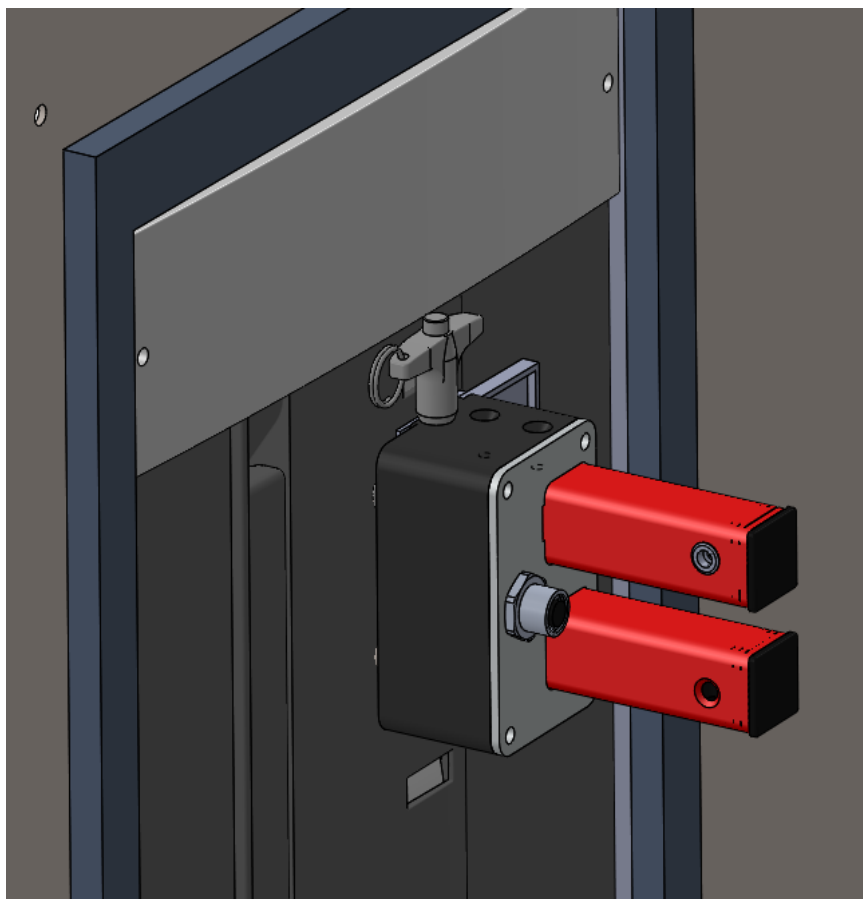
2. If the attached locking pin is installed within the RSK, remove it before proceeding with the installation. Press the blue locking button at the top, and pull the locking pin out.
3. Place the RSK over the breaker face, ensuring that the slot on the underside of the device aligns with the center of the breaker button guard.



4. Press the button at the top of the locking pin.
5. Insert the locking pin into the hole on the side of the RSK to secure the device against the face of the breaker.



The RSK is now ready for operation.

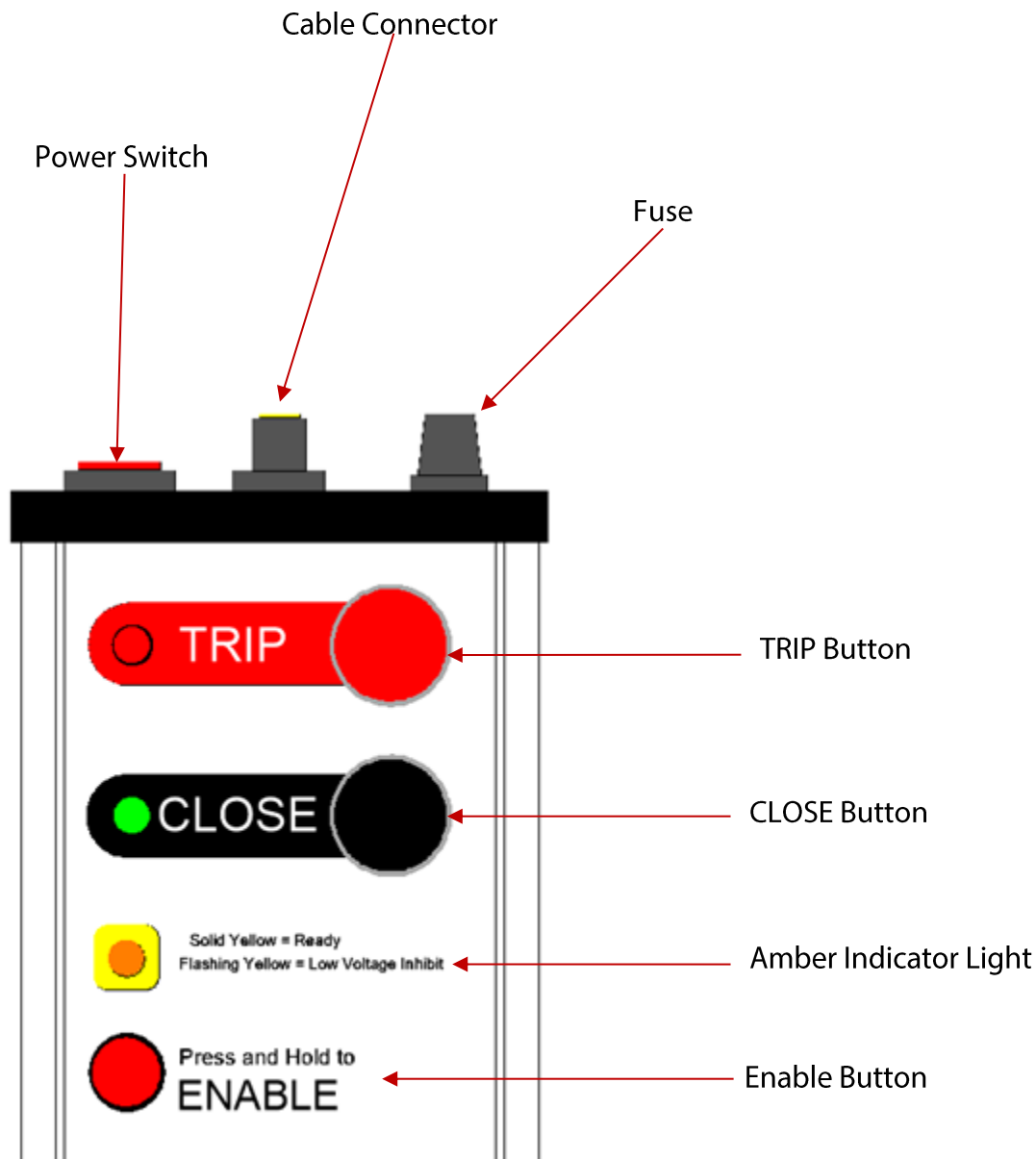


6 Operation

ATTENTION!

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

6.1 Controller Overview



6.2 Operation

6.2.1 Connecting the Control Cable

1. Align the arrow on the cable end with the top of the receptacle.
2. Push in, and engage the threads on the coupling nut and turn clockwise.
3. After one to two turns of the coupling nut, push in on the cable end.
Repeat this until the connector is fully sealed.
4. Use a similar technique of turn-stop-and-pull to disengage the cable ends.

6.2.2 Operation Preparation

1. The breaker must be charged prior to installing the RSK.
2. Connect the control cable to the RSK and to the handheld controller
3. Ensure that the RSK is properly installed on the breaker.
4. Exit the arcflash boundary.
5. Turn the Power Switch on top of the hand-held controller to the ON position. The amber LED should illuminate, indicating that the controller unit is ready.

6.2.3 Operation

1. When ready to operate the RSK, **PRESS and HOLD** the **ENABLE** Button.
2. With the **ENABLE** Button held down, press the **TRIP** button to perform the Trip operation.
3. With the **ENABLE** Button held down, press the **CLOSE** button to perform the Close operation.
4. When the desired operation or sets of operations have been completed, release the **ENABLE** Button in tandem with either the **TRIP** or **CLOSE** Button. This will cause the RSK to retract.

7 Care and Storage

7.1 *Cleaning Debris from Magnets*

Over a period of time, the magnets may attract ferrous debris. Exercise care to avoid setting the actuator where the magnets might attract debris. If this does occur, use a paper towel or nylon bristle brush to clean the face of the magnets. Keeping the magnet faces clean ensures that maximum holding power is maintained.

7.2 *Storage*

Remove all batteries from the control station if the device will not be used for longer than 6 months.

Never store the batteries where the ambient temperature might exceed 110° F.

Avoid getting the unit wet or storing it in a high humidity location.

Notes

This image shows a full page of blank handwriting practice paper. It features 20 evenly spaced horizontal blue lines across the entire page. The lines are thin and light blue, providing a guide for letter height and placement. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Distance Is Safety®

A Group CBS Company

RSK-SACE3
Installation and Operation

2616 Sirius Road
Denton, TX 76208
Tel: 877-4-SAFETY
Fax: 940-382-9435
Website: www.CBSArcSafe.com
Email: info@CBSArcSafe.com

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).