

# CBS ArcSafe®

A Group CBS Company



## Distance *is* Safety®

WHAT STANDS  
BETWEEN YOU  
AND ARC-FLASH  
DANGER?

**WE  
DO.**

### REMOTE RACKING & REMOTE SWITCHING



**CBSArcSafe.com**  
**(877) 4-SAFETY**  
(877) 472-3389

# Highlighted Products

See our remote switching and racking solutions for these common apparatus

## AB Centerline 2100

Allen-Bradley motor control centers

outfitted with the

Secure Connect feature can be remotely racked using our award-winning SecureConnect portable solution. Vintage gear is racked with the Remote Racking System (RRS-2-BE); switching operations are achieved through Remote Switch Kits (RSK-ABL1 or RSK-ABL2).



Technology Partner

A ROCKWELL AUTOMATION PARTNER



Centerline 2100

## Breaker Control Switch

Breaker Control Switch operations are enabled by the Remote Switch Kit (RSK-CS series), which includes actuator, handheld controller, case, and more.



RSK-CS01

## Magnum DS/SB

Eaton/Cutler-Hammer MDS/SB low-voltage circuit breakers can remotely charge/close/trip using the Remote Switch Actuator (RSA-48). The Remote Switching Kit (RSK-MDS30) handles close/trip applications. Racking can be done remotely with the RRS-3-MDS or with built-in video with the RRS-3-MDSR1.



Magnum DS/SB

## Load Break Switches

Many common load break switches can be remotely actuated using one of our popular Remote Switch Actuators, including the RSA-147, RSA-116, and RSA-116A.



Load Break Switches

## DS/DS II

Cutler-Hammer/Westinghouse/Square D DS-line air circuit breakers can be remotely racked using the portable Remote Racking System (RRS-3-DSR1 or RRS-3-DS). Full charge/close/trip operations are covered by the Remote Switch Actuator (RSA-12A). Close/trip operations are provided by the Remote Switching Kit (RSK-DS10).



DS/DS II

## Masterpact NW

Merlin Gerin/Square D Masterpact NW ICCB can be remotely racked in/out while using the Remote Racking System (RRS-3-NW). Full charge/close/trip operations are covered with the Remote Switch Actuator (RSA-120), while the Remote Switching Kit (RSK-NW20) covers only close/trip operations.



Masterpact NW

## Molded Case Circuit Breakers

Many common MCCBs, from 10 A to 3000 A, can be remotely actuated using one of our Remote Switch Actuators, including the RSA-113G, RSA-164K, and RSA-20F.



Molded Case Breakers

## Pringle Switch

Pringle Switches with and without a push-button shunt trip can be remotely actuated using the Remote Switch Actuator (RSA-135 Series).



Pringle Switch

## RRS-1

Our Universal Remote Racking System (RRS-1) offers an industry-leading number of solutions for rotary-style switchgear. This unit is designed for removing or inserting low- and medium-voltage draw-out rotary circuit breakers while the operator remains outside the arc-flash boundary.



RRS-1 Operational Video



# CBS ArcSafe®

## A Group CBS Company

CBS ArcSafe products keep technicians outside of the arc-flash hazard boundary while performing potentially dangerous electrical tasks. With the largest selection of remote switching and racking solutions available, we are the industry leader in electrical remote operations. As a Group CBS Company, CBS ArcSafe provides you access to the industry's largest inventory of low- and medium-voltage switchgear. We have parts, on-site service, comprehensive repair, and "need-it-now" delivery capabilities.



**We take pride in being available and capable of responding anytime, anywhere.**

- Largest selection of remote switching and racking equipment for low- and medium-voltage circuit breakers, motor control centers, and other applications.
- On-site demonstrations, training, and in-depth site evaluations provided by our Product Specialists and Group CBS affiliates.
- Equipment Training: OEM training by CBS ArcSafe is included in the purchase of select equipment. For existing customers, we recommend OEM retraining every three years and/or as staff attrition occurs. **2021 NFPA 70E Article 110.6(3)** states that retraining in safety-related work practices shall be performed at intervals not to exceed three years. In addition to training, you can visit our CBS ArcSafe YouTube channel for demonstration videos for a variety of devices.

**For after-hours or emergency support, contact us 24/7 via our emergency phone number: (877) 472-3389.**

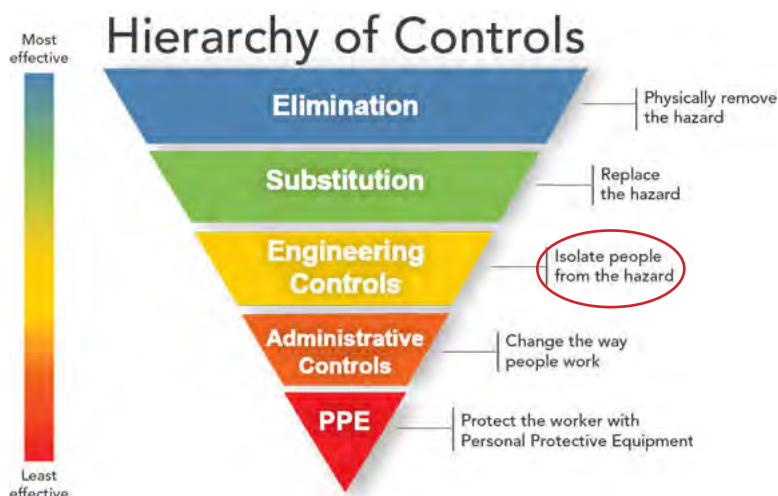
Assistance is also available from other Group CBS companies, which are listed on the back cover. We continue to develop new solutions for our customers on a daily basis. If you do not see what you need in our catalog, give us a call.

### CBS ArcSafe Facilities

**All CBS ArcSafe equipment is manufactured in the United States** at our Denton, TX headquarters and Charleston, WV facility, ensuring the highest quality components and systems. Our capabilities include production at scale and custom solutions to meet specific customer design requirements.

Capabilities include product engineering, SolidWorks/CAD design, CNC milling, 3D printing, programming, and water jet and laser cutting.

### NFPA 70E compliance



# Remote Switch Actuators (RSA)

CBS ArcSafe® Remote Switch Actuators (RSAs) are designed to remotely charge, close, and/or trip various styles and types of electrical equipment. An RSA can be custom built for any electrical device. RSAs are quickly attached by strong magnets, eliminating the need for modifications to your switchgear. This results in safe and efficient operations. Magnets also allow workers to easily move the RSA from one application to another.

## OPTIONAL FEATURES

- Radio remote with up to 300-foot range
- Wireless video camera system with LCD monitor
- Rugged protective case assembly

## BENEFITS

- Lightweight, portable construction
- Mechanical and/or electrical safety protection
- Adjustable to fit unique electrical equipment configurations
- Fast and easy to set up
- Reduces need for a full-body arc-flash suit
- Adds safety and helps comply with NFPA 70E
- No modifications required



**RSA-48**  
Eaton, Cutler-Hammer  
Magnum DS, SB (Door  
Closed, 800-4000 A)



**RSA-113**



**RSA-116**

# Remote Switch Kits (RSK)



Chicken Switch® Remote Switch Kits (RSK) are portable devices designed to remotely operate circuit breakers, control switches, and motor control centers. RSKs are ideal in environments where weight and portability are a consideration. With no need to purchase a separate power source, the price point and packaging are appealing.

- Complete kit includes actuator, handheld controller, batteries, control cable, instruction manual, and carrying case \*RSK only



**RSK-CS01**  
Electroswitch Series  
24, 24P, General  
Electric SB, SBM, SB-1,  
SB-9, SB-10, Westing-  
house Type W, Shalco  
Series 26



**RSK-K15**  
ABB, BBC, ITE K-Line (2000  
A & below, Electrically  
Operated)



**RSK-GEPB1L**  
PowerBreak (with Close  
button on left side of  
charging handle)



\*Wireless control available on most models.

All CBS ArcSafe products are compatible with all switchgear manufacturers, including:

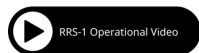
- |                  |                            |                 |                 |
|------------------|----------------------------|-----------------|-----------------|
| ■ ABB            | ■ Eaton                    | ■ McGraw-Edison | ■ Siemens       |
| ■ Allis-Chalmers | ■ Federal Pacific Electric | ■ Merlin Gerin  | ■ Siemens-Allis |
| ■ Alstom         | ■ Federal Pioneer          | ■ Mitsubishi    | ■ Square D      |
| ■ BBC            | ■ General Electric         | ■ Powell        | ■ Toshiba       |
| ■ Cutler-Hammer  | ■ Hyundai                  | ■ Reyrolle      | ■ Westinghouse  |
|                  | ■ ITE                      |                 |                 |

NOTE: All manufacturers' names, trademarks, and part numbers are used for reference purposes only. CBS ArcSafe, Inc. is not an authorized distributor or representative of manufacturers shown. Designated trademarks, brand names and brands appearing herein are the property of their respective owners.



# RRS-1

## Remote Racking System For Rotary Circuit Breakers



By permitting the automatic racking of the circuit breaker from a remote location, the CBS ArcSafe® remote racking system replaces the manual racking operation and removes the operating personnel from manual contact with the circuit breaker. The unique design of the CBS ArcSafe remote racking system, with its specially manufactured drive shafts and tooling, enables the system to operate with all types of circuit breakers produced by the major switchgear manufacturers. The CBS ArcSafe remote racking system can operate with draw-out types of air, SF6, oil, and vacuum circuit breakers that have either a horizontal or vertical racking operation.

### BENEFITS

- Remote operation places operator outside the arc-flash protection boundary
- Compatible with low- and medium-voltage circuit breakers produced by all major switchgear manufacturers
- Use with horizontal and vertical types of air, SF6, oil, and vacuum circuit breakers
- Height and angle of the drive is easily adjusted
- Quick-release drive shafts and couplings simplify setup
- Redundant over-racking protection provided
- Seamless transfer of AC/DC power
- Hand-truck design provides easy mobility

### SPECIFICATIONS

**WEIGHT** . . . 200 lbs

**BATTERY LIFE** . . . > 50 Operations\*

**SYSTEM VOLTAGE** . . . 24V DC

**INPUT VOLTAGE** . . . 120±10% VAC, 47-63 Hz†

**MAXIMUM AC CURRENT** . . . 12.2 A

**DRIVE MOTOR POWER** . . . 250 W

**DRIVE ASSEMBLY SPEED** . . . 80 RPM

**CHARGE TIME** . . . Approx. 6 hours

**DIMENSIONS** . . . 74" H x 26" W x 38.1" D

**OPERATING DISTANCE** . . . 35 feet‡

\*Number of operations is dependent on the nature of the operation

†May be custom ordered to match different local power standards

‡Standard configuration, contact CBS ArcSafe® for other options

US PATENT NO. 8,151,452B2

## Optional Equipment

## Remote Racking Systems

For Extraction-Style and Rotary-Type Circuit Breakers

### CCM Radio Remote

The Current Control Module (CCM) radio remote option allows users to operate the RRS and monitor the racking status wirelessly from up to 300 feet away. Ideal for users with extended distance requirements or those who wish to monitor the status of the racking operation remotely.



### Wireless/Wired Video System

The wireless/wired video system allows users to monitor the remote racking operation from up to 300 feet away using an RRS-mounted camera and stand-alone monitor. Ideal for users who will be visually separated from the RRS during the remote operation.



### Power Slide

The power slide system utilizes a motor to raise and lower the drive assembly instead of the standard handle. Ideal for applications requiring users to quickly and easily switch between racking heights for different breakers.



### LED Light

The LED light accessory adds a forward-facing, high-intensity light source with pan and tilt capability to the front of the RRS. Ideal for personnel setting up the RRS or installing RRS tooling in low-light environments.



### High Lift

The high lift option is required to remotely rack any equipment with a racking mechanism more than 66 inches off the ground. Ideal for users who wish to rack breakers with extremely high racking mechanisms that would otherwise cause issues during manual operation.



### Low-Speed/Jog

The low-speed/jog option consists of a high-torque/low-speed gearbox, as well as manual jog control for the RRS operation. Ideal for applications requiring added torque output and/or more precise control.



# RRS-2

## Remote Racking System For Extraction-Style Circuit Breakers



The CBS ArcSafe RRS-2 is a portable and highly configurable remote racking system built to rack all circuit breakers with non-rotary racking mechanisms while keeping the operator outside of the arc-flash boundary. The operator is able to manipulate the breaker-specific tooling, available for numerous makes and models of switchgear, via either a wired or wireless pendant station from up to 300 feet away. Prior to ordering, CBS ArcSafe recommends an on-site evaluation be performed by a company representative in order to ensure the proper equipment may be provided for each customer based on their particular switchgear and specific requests.

### SPECIFICATIONS

<b>WEIGHT</b> . . . . .	160 lbs
<b>BATTERY LIFE</b> . . . . .	> 50 Operations*
<b>SYSTEM VOLTAGE</b> . . . . .	24V DC
<b>INPUT VOLTAGE</b> . . . . .	120±10% VAC, 47-63 Hz†
<b>MAXIMUM AC CURRENT</b> . . . . .	12.2 A
<b>EXT. ACTUATOR FORCE</b> . . . . .	600 lbs
<b>EXT. ACTUATOR SPEED</b> . . . . .	1.0"/second
<b>CHARGE TIME</b> . . . . .	Approx. 6 hours
<b>DIMENSIONS</b> . . . . .	60" H x 26" W x 36" D
<b>OPERATING DISTANCE</b> . . . . .	35 feet‡



\*Number of operations is dependent on the nature of the operation; †May be custom ordered to match different local power standards; ‡Standard configuration, contact CBS ArcSafe® for other options

# RRS-2 BE

## Remote Racking System For Motor Control Center Buckets Only



The RRS-2 BE is designed specifically for motor control center (MCC) bucket removal applications where users normally would be required to perform the install or remove operation manually — exposing them to the potential hazards of an arc flash and its lethal consequences. Designed to be extremely versatile, the RRS-2 BE is suited for use in all environments — from grueling applications in a power-generation facility to clean rooms at a high-tech manufacturing plant.



### BENEFITS

Setup and operation of the RRS-2 BE are very similar to that of the standard RRS-2, allowing users who are familiar with RRS-2 operation to transition between the two easily with no additional training required. RRS-2 BE benefits include:

- Large linear actuator has been replaced with a compact, adjustable travel linear actuator more suited to the forces required for MCC buckets instead of large breakers
- Steel frame of the RRS-2 has been modified to accept the specialized tooling required for MCC bucket install and remove operations
- Dual channel-enabled operation allows users to carefully control the MCC bucket install and remove operations
- Two-station high-reach vertical adjustment is capable of reaching MCC buckets up to 80" high. The included wireless remote control allows users to operate the unit from up to 300 feet away

### SPECIFICATIONS

<b>WEIGHT</b> . . .	105 lbs
<b>BATTERY LIFE</b> . . .	> 50 Operations*
<b>SYSTEM VOLTAGE</b> . . .	24V DC
<b>INPUT VOLTAGE</b> . . .	120±10% VAC, 47-63 Hz†
<b>CHARGE TIME</b> . . .	Approx. 4 hours
<b>DIMENSIONS</b> . . .	74" H x 25" W x 32" D
<b>OPERATING DISTANCE</b> . . .	300 feet‡

\*Number of operations is dependent on the nature of the operation

†May be custom ordered to match different local power standards

‡Radio remote control standard on RRS-2 BE

# RRS-3 Single-Use Portable Remote Racking Systems

CBS ArcSafe Single-Use Remote Racking Systems (RRS-3) are designed to remotely rack a single style of circuit breaker utilizing a portable, stand-alone device. The RRS-3 units are most commonly assisted by strong magnets, meaning that no modifications are required to the switchgear. This also allows operators to easily move the RRS-3 from one breaker to another.

The RRS-3 system is an inexpensive single-application remote racking system that allows the operator to install and remove a breaker while standing 25 to 75 feet away with a hand-control unit. Each CBS ArcSafe RRS-3 is custom built to your electrical equipment so that it can safely operate your switchgear.

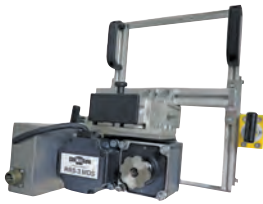
## BENEFITS

- Lightweight, portable construction
- Mechanical and electrical safety protection
- Mechanical clutch over-racking protection
- Adjustable to fit unique equipment configurations
- Fast and easy to set up
- Reduced need for a full-body arc-flash suit
- Adds safety and helps comply with NFPA 70E
- No modifications required

RRS-3 MBII



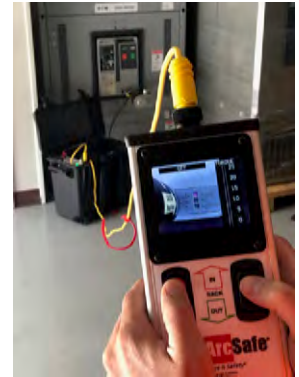
RRS-3 MDS



RRS-3 VB



RRS-3 VCPR



## Remote Switch Operators (RSO)



RSO-IIID-M18

1. Operating pushbuttons, such as circuit breaker trip and close buttons
2. Operating charging handles requiring single or multiple cycles
3. Engaging or disengaging mechanical interlocks, such as circuit breaker interlock foot-pedals

UPDATED DESIGN

POWERED BY  
**M18 REDLITHIUM**



RSO-IAR-M18

1. Operating pushbuttons, such as circuit breaker trip and close buttons
2. Operating levers, such as those found on motor control center buckets
3. Operating handles requiring single strokes
4. Operating rotary and pistol-grip switches, such as breaker control switches



RSO-IV-M18

1. Works with RRS-3 Single-Use Remote Racking Systems
2. Installing and removing any switchgear utilizing a rotary racking mechanism
3. Installing and removing any switchgear utilizing a non-rotary racking mechanism
4. Engaging or disengaging mechanical or electrical interlocks, such as circuit breaker interlock foot-pedals or buttons
5. NEW - Blue Indicator beacon alerts user when input settings have been reached



LEARN MORE ABOUT OUR  
REMOTE SWITCH OPERATORS  
FROM A LIVE BROADCAST  
ON OUR YOUTUBE CHANNEL





## GROUP CBS AFFILIATES

### Group CBS

GroupCBS.com  
Addison, TX — Ph: 972-250-2500

### Advanced Electrical & Motor Controls

AEAMC.com  
**HEADQUARTERS:** Irving, TX — Ph: 972-253-7783

### Arkansas Electrical Outlet

Aeoglobal.com  
Forrest City, AR — Ph: 870-633-4997

### CBS ArcSafe

CBSArcSafe.com  
Denton, TX — Ph: 940-382-4411  
Charleston, WV — Ph: 304-965-9220

### CBS Nuclear Services

CBSNuclear.com  
Matthews, NC — Ph: 704-882-1875

### Carolina Precision Switchgear

CPSwitchgear.com  
Concord, NC — Ph: 704-596-4242

### Circuit Breaker Analyzer

CBAAnalyzer.com  
Addison, TX — Ph: 972-290-0074

### Circuit Breaker Sales & Repair

CBSalesAndRepair.com  
**HEADQUARTERS:** La Porte, TX — Ph: 281-479-4555

### REGIONAL SERVICE SHOP:

Gonzales, LA — Ph: 225-673-2278

### Circuit Breaker Sales

CircuitBreaker.com  
**HEADQUARTERS:** Gainesville, TX — Ph: 940-665-4444

### REGIONAL SERVICE SHOPS:

Chicago Service Shop  
Crown Point, IN — Ph: 219-213-2095

Denver Service Shop  
Denver, CO — Ph: 720-981-4580

Detroit Service Shop  
Livonia, MI — Ph: 734-357-8005

Lakeland Service Shop  
Lakeland, FL — Ph: 863-646-5099

Houston Service Shop  
La Porte, TX — Ph: 281-479-4555

Phoenix Service Shop  
Phoenix, AZ — Ph: 888-395-2021

Salt Lake Service Shop  
Salt Lake City, UT — Ph: 888-395-2021

Seattle Service Shop  
Seattle, WA — Ph: 888-395-2021

Vancouver Service Shop  
Vancouver, WA — Ph: 888-395-2021

### Circuit Breaker Sales NE

CircuitBreakerSalesNE.com  
**HEADQUARTERS:** Seymour, CT — Ph: 203-888-7500  
Johnstown, PA — Ph: 203-888-7500  
Boston, MA — Ph: 781-438-7770

### Group CBS UK/Europe

GroupCBSEurope.co.uk  
Milton Keynes, Buckinghamshire, — Ph: +44 0 7770 500 577

### Solid State Exchange & Repair

SolidStateRepair.com  
Denton, TX — Ph: 877-TRIP-FIX

### Vacuum Interrupters

VacuumInterruptersInc.com  
Farmers Branch, TX — Ph: 214-442-5877

### CBS Field Services

CBSFieldServices.com  
**HEADQUARTERS:** Phoenix, AZ — Ph: 888-395-2021

### REGIONAL SERVICE CENTERS:

CBS Field Services Detroit  
Detroit, MI — Ph: 810-720-2280

CBS Field Services Lakeland  
Lakeland, FL — Ph: 800-232-5809

CBS Field Services Nashville  
Nashville, TN — Ph: 615-669-4348

CBS Field Services Salt Lake City  
Salt Lake City, UT — Ph: 888-395-2021

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Sumner, WA — Ph: 888-395-2021

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