

CBS ArcSafe®

A Group CBS Company



Distance *is* Safety®

WHAT STANDS
BETWEEN YOU
AND ARC-FLASH
DANGER?

WE
DO.

REMOTE RACKING & REMOTE SWITCHING



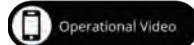
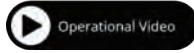
CBSArcSafe.com
(877) 4-SAFETY
(877) 472-3389

Highlighted Products

See our remote switching and racking solutions for these common apparatus

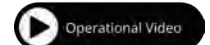
AB Centerline 2100

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).



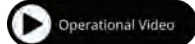
Magnum DS/SB

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.



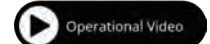
Load Break Switches

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.



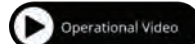
DS/DS II

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).



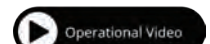
Masterpact NW

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.



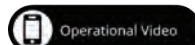
Molded Case

Circuit Breakers Many common MCCB, 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.



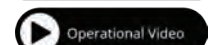
Pringle Switch

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



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.



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 industry's leader in electrical remote operations. As a GroupCBS 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 inventory of new, surplus, and reconditioned low- and medium-voltage power equipment and replacement parts available in North America
- On-site scheduled or emergency field service
- CBS ArcSafe, Inc.'s personnel are available to assist you at all times.

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

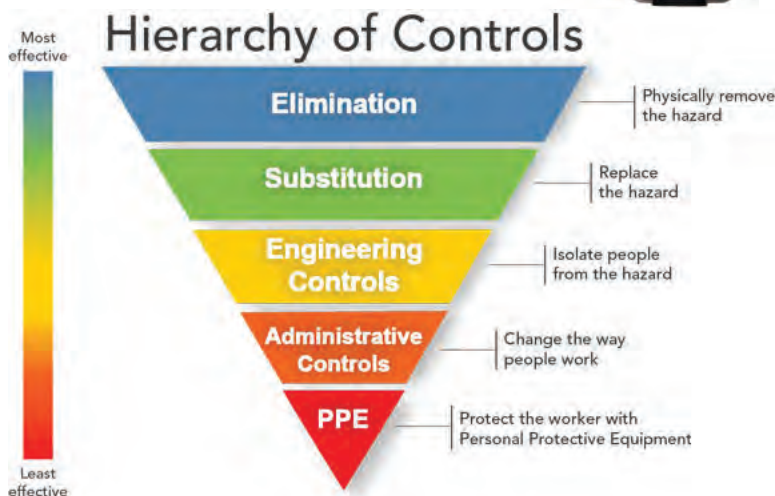
Assistance is also available from other Group CBS companies, which are listed on the back cover. We continue to develop new solutions for our customers on a daily basis. If you do not see what you need in our catalog, give us a call.

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, 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 & efficient operations. Magnets also allow workers to easily move the RSA from one application to another.



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



RSA-113



RSA-116

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

Remote Switch Kits (RSK)



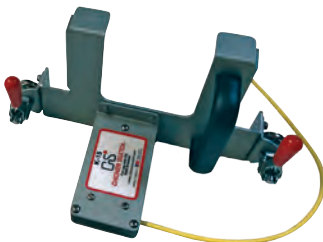
Chicken Switch® Remote Switch Kits (RSK) are portable devices designed to remotely operate circuit breakers, control switches, and motor control centers. RSKs are ideal in environments where weight and portability are a consideration. With no need to purchase a separate power source, the price point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

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

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

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 capable of reaching MCC buckets up to 80" high. Included is a wireless remote control, allowing users to operate the unit from up to 300 feet away

SPECIFICATIONS

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

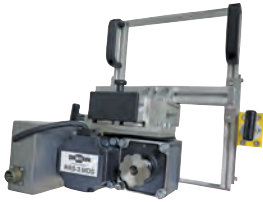
BENEFITS

- 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

1. Operating pushbuttons, such as circuit breaker trip and close buttons
2. Operating levers, such as those equipped on motor control centers
3. Operating charging handles requiring single or multiple cycles
4. Operating rotary switches, such as pistol-grip SBM switches
5. Engaging or disengaging mechanical interlocks, such as circuit breaker interlock foot-pedals



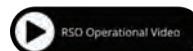
RSO-IAR

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 charging handles requiring single strokes
4. Operating rotary and pistol-grip switches, such as breaker control switches
5. Engaging or disengaging mechanical interlocks, such as circuit breaker interlock foot-pedals



RSO-IV

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 – 972-250-2500

Advanced Electrical & Motor Controls

AEAMC.com
HEADQUARTERS: Irving, TX – Ph: (972) 253-7783
Elgin (Chicago), IL – Ph: 800-289-2757

Arkansas Electrical Outlet

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

CBS ArcSafe

CBSArcSafe.com
Denton, TX – Ph: 940-382-4411
Charleston, WV

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 CENTER:

Gonzales, LA – Ph: 225-673-2278

Circuit Breaker Sales Co.

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

REGIONAL SERVICE CENTERS:

Chicago Service Center
Rockford, IL – Ph: 847-697-8720
Detroit Apparatus Service Center
Livonia, MI – Ph: 734-357-8005
Florida Service Center
Lakeland, FL – Ph: 863-646-5099
Midwest Service Center
Crown Point, IN – Ph: 219-213-2095
St. Louis Service Center
Pinckneyville, IL – Ph: 618-357-6300

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 Training Center

GroupCBS.com/training
Elgin, IL, – Ph: 224-856-5036

Group CBS UK/Europe

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

Powertech Services

ProtectiveRelaySpecialists.com
Swartz Creek, MI – 810-720-2280

Rocky Mountain Breaker Services

Rockymtnbreaker.com
Englewood, CO – 720-981-4580

Solid State Exchange & Repair

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

Vacuum Interrupters

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

Western Electrical Services

WesternElectricalServices.com
HEADQUARTERS: Phoenix, AZ – Ph: 888-395-2021

REGIONAL SERVICE CENTERS:

Reno Service Center
Reno, NV – Ph: 888-395-2021
Salt Lake City Service Center
Salt Lake City, UT – Ph: 888-395-2021
Sumner/Seattle Service Center
Sumner, WA – Ph: 888-395-2021
Vancouver Service Center
Vancouver, WA, – Ph: 888-395-2021



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