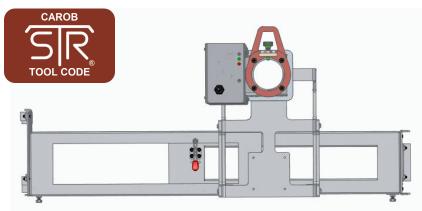
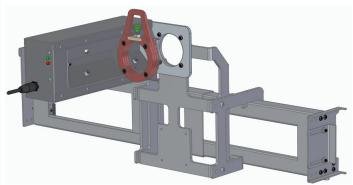


SR-U

SDB-52VB-1321-NM





Cutler Hammer Westinghouse

DHP/DHPVR

15kV

1200-2000-3000A

ur products are built to spec in our 23,000 sq ft., state-of-the-art facility by our team of designers and engineers in Tucson, Arizona. Each product is custom designed to individually fit each breaker, cubical door, switch gear, or variant so you know you're getting the safest, most reliable product on the market. We built the best so your team stays safe.

Because Distance is the Best Arc Flash Protection







Operation Manual

Safety First

Always observe all safety precautions and use all personal protective equipment (PPE) as required by Local Site Procedures. This equipment is designed to minimize exposure risk to the operator. Please use the cables, explained below, to attain a safe distance from the breakers during racking. Always use appropriate PPE. Above all, adhere to site specific regulations and requirements.

Before beginning the racking process, be sure that the breaker is open, verify that a lockout/tag out is in place (LOTO) and allows racking of the breaker.

Parts List

Part/Image	Quantity	Description
	1 each	An adjustable Spanner Bar spans the width of the breaker when the door is open. The SDB hangs from the Spanner Bar once mounted.
	1 each	The Smart Drive Bracket (SDB) uses the Tool Adapter Assembly (TAA) to engage with the breaker and perform the racking in/out functions.
SR SR	1 each	Portable Kit includes: One Motor Drive Unit (MDU), one 50' comm. cable, two 28V batteries, and one SR-U Handheld Controller (HHC)

Overview

Depicted in figs. 1.1 and 1.2, the Smart Drive Bracket (SDB) hangs from a Spanner Bar and aligns mounting rings with the racking shaft. The Spanner Bar includes a toggle clamp (fig. 1.2) that, when the Spanner Bar is secured between the breaker walls, clamps the Spanner Bar securely into place. Once in place, the SDB hangs easily from the Spanner Bar

The Motor Drive Unit (MDU) mounts to the mounting rings, depicted in red, and couples with a Tool Adapter Assembly (TAA) to engage with the racking shaft and perform the racking function.

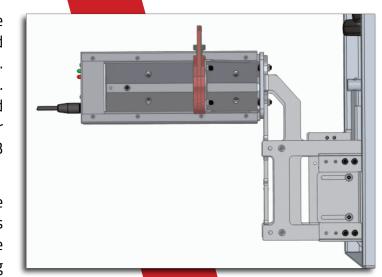


Fig. 1.1

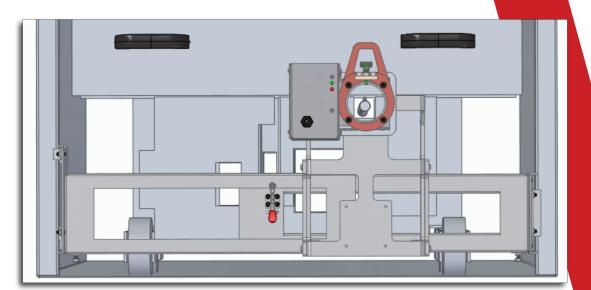


Fig. 1.2

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Tool Adapter Mount

As noted in the Overview, the SDB is equipped with a Tool Adapter Assembly (TAA). The Motor Drive Unit (MDU) is equipped with a quick-connect tool coupling, which uses a collar that slides back and the TAA inserts in to the coupling. When the coupling is released, the TAA is secured in place.

Sequence Process

- 1. Pull back the collar on the MDU.
- 2. Insert the TAA in to the quick-connect tool coupling.
- 3. Release the collar and shake and twist the TAA to ensure its locked in place.

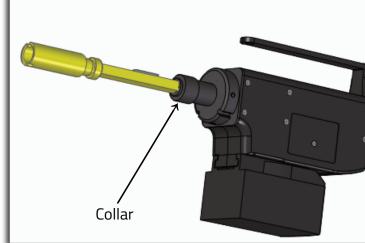


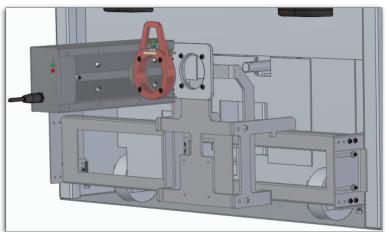
Fig. 1.3

Smart Drive Bracket Mount

The Spanner Bar adjusts to the width of the breaker walls and secures in place with a toggle lock Once the Spanner Bar is in place the Smart Drive Bracket hangs easily off the front. The SDB will be able to move laterally over the Spanner Bar so the Bracket can be adjusted to align with the racking shaft. Center the red rings in front of the racking port and prepare to mount the Motor Drive Unit.

Sequence Process

- 1. Fit the Spanner bar to the walls of the breaker box.
- 2. Secure the Spanner Bar in place with a toggle lock.
- 3. Hang the SDB on the Spanner Bar, aligning the mounting rings in front of the racking port.



Motor Drive Unit Mount

The Portable Kit includes two 28V batteries. Before connecting the battery to the system, make sure the battery is fully charged and is attached to the MDU. If preferred, an AC Power Supply is available, negating the need of a battery.

The MDU intuitively fits into the SDB mounting rings (depicted in red), on top of which is a locking pin (depicted in green, fig. 1.5). Set the locking pin to the open position. Insert the MDU and align the UTAA with the Intermediate Tool Adapter, then lock the MDU into place by releasing the locking pin. When the pin fully engages, the MDU is secure.

Once the MDU is secured to the SDB and fully connected to the Tool Adapter, connect the 50-foot SDB Automation Cable to the Motor Drive Unit.

Sequence Process

- 1. Attach a fully charged battery to the MDU.
- 2. Set the locking pin to the open position.
- 3. Insert the MDU equipped with the TAA through the mounting rings.
- 4. Align and engage the TAA with the racking shaft.
- Release the locking pin, securing the MDU in place.
- 5. Connect the S<mark>DB Automation Cable to the MDU.</mark>

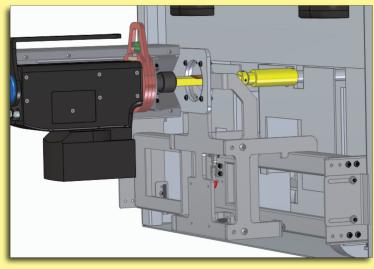


Fig. 1.5

Fig. 1.4



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Handheld Controller

The Handheld Controller connects to the MDU via a 50' Automation Cable. If necessary three cables may be tethered to achieve a safe distance of 150'. Once plugged in and turned on, the Handheld Controller guides the user through the racking in/out procedure.

Sequence Process

- 1. Connect the Handheld Controller with the 50' Comm. Cable.
- 2. Move a safe distance from the breaker.
- 3. Twist the E-Stop switch, depicted here, to activate the HCC.
- 4. Turn on the Handheld Controller and follow the on-screen prompts.

Error Recovery

When racking in/out, if an obstruction or mechanism failure occurs, the system will attempt to recover the breaker to a safe position. Actions will be displayed with an asterisk (*) in front of them. When done, the

position of the breaker will be displayed as determined by the recovery. Note the location and approach with caution. Determine the cause of the failure and remedy the situation prior to attempting additional remote racking.

NOTE: Attempting to stop or shutting down the system mid-process once it has started is not recommended, as this will leave the breaker in an unknown position. The Remote Racking System will only operate from "known" positions: connect or disconnect. The Remote Racking System will not engage when the breaker is at a mid-point.



Care/Maintenance

To ensure longevity from the Portable Kit and the Smart Drive Bracket, store the tools in the provided polymer case in a dry, temperate environment. The tools are weather resistant but should be used with care in rain and snow.

▲ WARNING

This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

For any questions, concerns, information, or missing/replacement parts, contact Remote Solutions below or follow the QR link to our website.



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Because Distance is the Best Arc Flash Protection

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