REMOTE RACKING SYSTEM SPECIFICALLY DESIGNED FOR:



Because Distance is the Best Arc Flash Protection

BREAKER: Masterpact NW MANUFACTURER: Square D VOLTAGE: 480V CURRENT: 800A, 6000A





MADE IN THE



• LIGHTWEIGHT AND PORTABLE

- EASY-TO-USE HANDHELD CONTROLLER
- STANDARD 50' CABLE (WITH OPTIONAL EXTENSIONS) ASSURES SAFE DISTANCE FROM BREAKER DURING RACKING SEQUENCE
- ERROR RECOVERY & EMERGENCY STOP CAPABILITY
- MOUNTING HARDWARE INSTALLED ON CUBICLE FACE

PARTS & ACCESSORIES

Smart Drive Bracket, Tool Adapter Assembly, Motor Drive Unit, and 50' Communications Cable

All of our products are designed, built to spec, and shipped from our state-of-the-art facility in Tucson, Arizona. Each product is created and tested by our knowledgeable team of designers and engineers to fit each individual breaker, cubicle door, switchgear, or variant. When you choose Safe-T-Rack, you're getting the safest, most reliable product on the market.

OUR TEAM GOES TO WORK EVERY DAY To make sure your team Comes home safe.



REMOTE SOLUTIONS, LLC

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KEY LIME 272 OPERATION MANUAL

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exposure risk to the operator. PARTS LIST Navigation & Selection Buttons 1. Smart Drive Bracket (SDB) 1111 2. Intermediate Tool Adapter Assembly (ITAA) 3. ITAA Assist Tool 4. Tool Adapter Assembly (TAA) 5. Motor Drive Unit (MDU) 6. Two (2) batteries with charger 7. One (1) SR-U Handheld Controller (HHC) 8. 50' communication cable* 9. Polymer Storage Case Power/E-Stop Button 3 Locking Pin 5 **Drive Rings** 2 WARNING 9 This product can expose you to CUBICLE KIT REQUIRED chemicals including Di(2-ethylhexyl), phthalate (DEHP), which is known to the This application requires an installed State of California to cause cubicle kit onto which the SDB is cancer and birth defects or other reproductive harm. For more mounted. For questions or installation information go to requests, contact Remote Solutions LLC. www.p65warnings.ca.gov.

SAFETY FIRST

Always observe safety precautions and use personal

protective equipment (PPE) as required by local site

procedures. This equipment is designed to further minimize

SETUP SEQUENCE

SMART DRIVE BRACKET (SDB) & Intermediate tool adapter assembly (Itaa)

- 1. Confirm that cubicle kit has been installed on breaker and that both breaker and Smart Drive Bracket (SDB) are labeled with KEY LIME color code.
- 2. Fit SDB over support shaft of cubicle kit and matching mounting point. Slide SDB to the right gently, until locking arm springs into place to secure bracket.
- 3. Remove Intermediate Tool Adapter Assembly (ITAA) from storage below SDB and insert it through the SDB into the racking port, aligned with the racking shaft. *Note: ITAA Assist Tool assists operator by connecting to ITAA through drive rings.*

MOTOR DRIVE UNIT (MDU) & Tool Adapter Assembly (TAA)

- 1. Using Quick Change Coupling, insert Tool Adapter Assembly (TAA) into Motor Drive Unit (MDU) and release collar. Assure that TAA is secured before proceeding.
- 2. Attach fully charged battery to MDU.
- 3. Set the locking pin on SDB to an open position and insert MDU & attached TAA into the drive rings on SDB.
- 4. Align and engage the MDU and TAA with ITAA. Once aligned, release locking pin to hold MDU in place. Assure that SDB is secured in place before proceeding.
- 5. Connect SDB communication cable to port in MDU. Note: red line on communication cables indicates correct alignment with port.

HANDHELD CONTROLLER (HHC)

- 1. Connect 50' Communication Cable to second port in MDU.
- 2. Connect other end of 50' Communication Cable to Handheld Controller (HHC)*.
- 3. Move a safe distance away from the breaker.



CUBICLE KIT SHOWING MOUNTING Points for SDB



SDB SUSPENDED FROM MOUNTING Points and locked into place



ITAA ENGAGED WITH RACKING PORT (USE ASSIST TOOL TO ACCESS ITAA IF NEEDED)



MDU WITH ATTACHED TAA (TOP) AND MDU/TAA PROPERLY ENGAGED WITH ITAA, DRIVE RINGS, AND LOCKING PIN - READY FOR SDB AND HHC COMMUNICATION CABLES

*Note: Multiple cables can be used to increase safe distance from breaker. Additional cables sold separately. Contact Remote Solutions LLC for more information.

POWER ON

- 1. Twist the E-Stop switch on HHC to activate the system.
- 2. Several screens will flash as unit powers up. Once HHC has powered up, **verify correct application screen is displayed.**

SYSTEM OPERATION

- Follow the on-screen prompts to complete racking procedure. Navigate selections using perimeter buttons on HHC (backlit in green). "Right" and "Left" will advance through menu. "Up" and "Down" will toggle between options on screen.
- Navigating HHC in this manner, select current location and desired destination of breaker. When selection is highlighted, click center button (backlit in red) to confirm selection. This will initiate the racking process.
- 3. System will perform action as selected, displaying progress on screen.
- 4. Upon successful operation, HHC will display a completed racking screen.

POWER DOWN & STORAGE

- 1. Power down the unit by pressing the E-Stop button. Remove battery from MDU.
- 2. Unplug power cord and HHC communication cord from SDB.
- 3. Stow 50' Communication Cable, HHC, MDU, and batteries in storage case.
- 4. Remove ITAA and TAA and return to storage clips on SDB.
- 5. Remove SDB from cubicle and store in provided polymer case.

CARE & Maintenance

To ensure longevity of the Portable Kit and SDB, 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.

BATTERY REQUIREMENT

Note: System will ask to verify battery level. Check battery level is at 4 bars before attempting to rack. If racking multiple breakers, please verify battery level between each racking attempt.



POWER & E-STOP BUTTON

Remote Solutions reserves the right to change or update product or documentation without prior notice.

ERROR RECOVERY

If a problem occurs, programmed recoveries will happen automatically and the system will attempt to recover the breaker to a known position.

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 on

HHC with an asterisk (*) in front of them. When the HHC has completed recovery operations, HHC will display current expected location of the breaker. Note the expected location and approach the breaker with caution. Determine cause of the failure and remedy the situation prior

to attempting additional remote racking.

NOTE: Attempting to stop or shutting down the system midprocess 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.

EMERGENCY STOP

The red E-Stop button on the HHC serves as both the power and Emergency Stop button. If an E-stop is initiated, the system will shut down. Operator must then manually recover the breaker to a known position. Follow all safety procedures and wear appropriate PPE when recovering a breaker manually.

> 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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