REMOTE OPEN/CLOSE SYSTEM

SPECIFICALLY DESIGNED FOR:

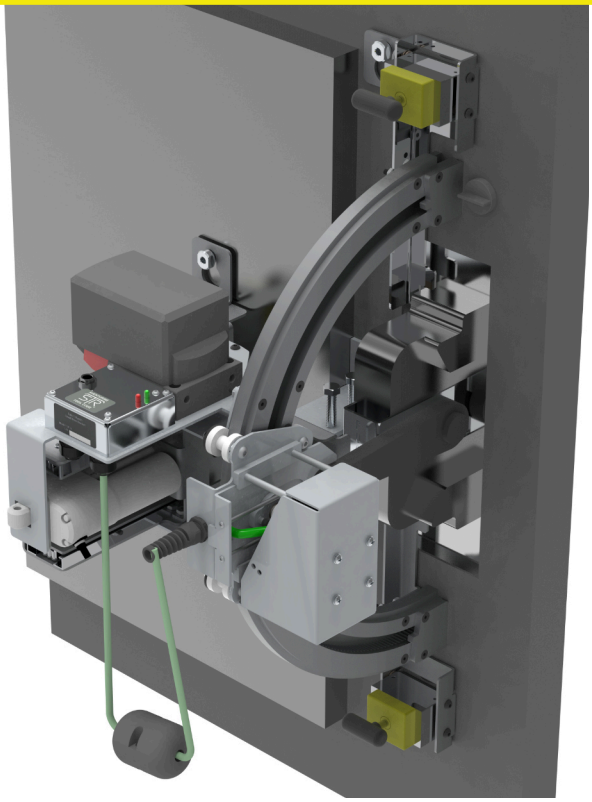
BREAKER: Limitamp MV Contactor
MANUFACTURER: General Electric
VOLTAGE: 2.4kV-7.2kV

SAFE-T-RACK
by Remote Solutions LLC

Because Distance is the Best Arc Flash Protection

AVENTURINE 252

AVENTURINE STR TOOL CODE



- 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
- CUBICLE KIT ASSURES CONSISTENT PLACEMENT WITH EACH USE.

PARTS & ACCESSORIES

Remote Open/Close Device,
2 Batteries and Chargers, Handheld Controller, and Communications Cord

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, cubical 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
2475 N. Jackrabbit Avenue · Tucson, AZ 85745 · (520) 628-4378 ·
FAX (520) 628-4568 · www.Safe-T-Rack.com

MADE IN THE USA

AVENTURINE 252 OPERATION MANUAL

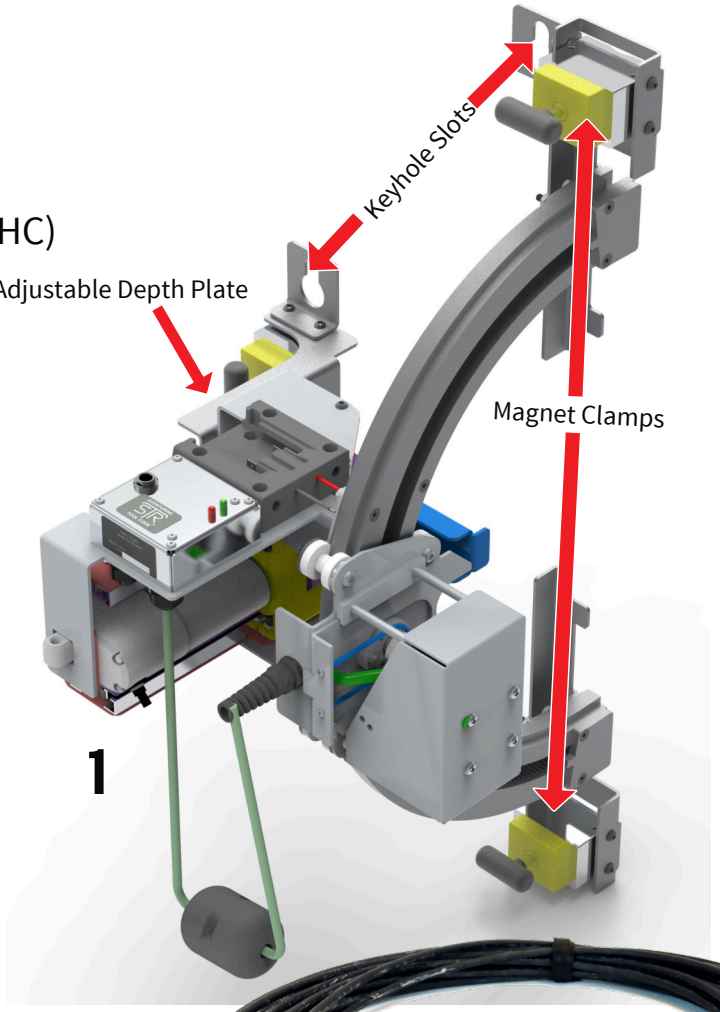
BREAKER: Limitamp MV Contactor
MANUFACTURER: General Electric
VOLTAGE: 2.4kV-7.2kV

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 exposure risk to the operator.

PARTS LIST

1. Remote Open/Close (ROC) Device
2. Two (2) batteries with charger
3. One (1) SR-U Handheld Controller (HHC)
4. 50’ communication cable*
5. Polymer Storage Case



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.

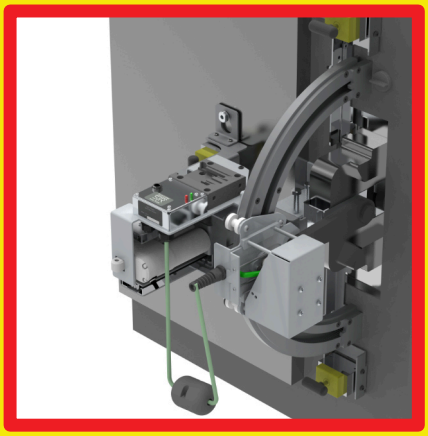
SETUP SEQUENCE

INSTALLING REMOTE OPEN/CLOSE DEVICE (ROC) DEVICE ON BREAKER

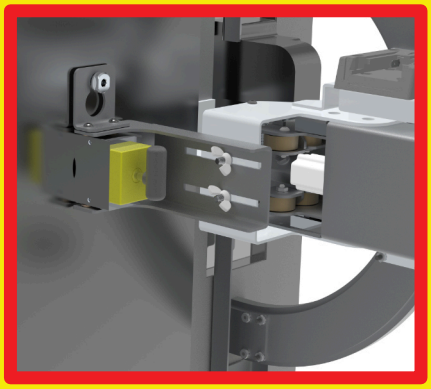
1. Confirm that both cubicle and Remote Open/Close (ROC) device are labeled with AVENTURINE color code.
2. Hang ROC device from cubicle using installed shoulder nuts. Device will suspend securely from keyhole slots.
3. Lock device in place using magnet clamps, rotating handles to the right to lock.
4. If necessary, depth of magnet clamp on left can be adjusted to meet face of cubicle. Loosen wing nuts to slide depth plate on bracket and tighten again once correct depth is reached.
5. Lock magnet clamp on left so that device cannot shift during Open/Close process.
6. Attach fully charged battery to ROC device.

CONNECTING HANDHELD CONTROLLER (HHC)

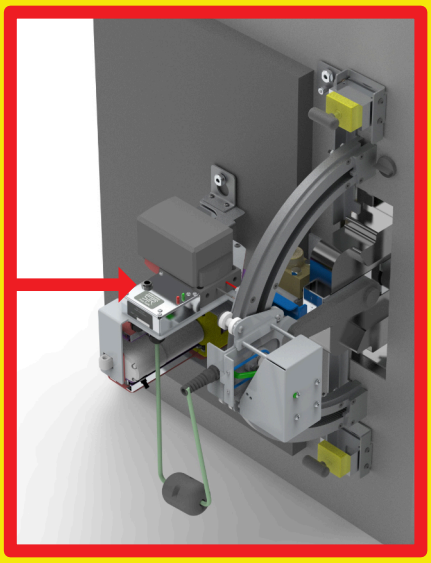
1. Connect 50’ Communication Cable to port in ROC device. Note: red line on communication cord indicates correct alignment of cord and port.
2. Connect other end of 50’ Communication Cable to Handheld Controller (HHC)*.
3. Move a safe distance away from the breaker.



ROC DEVICE SUSPENDED FROM BREAKER USING SHOULDER NUTS AND KEYHOLE SLOTS



WING NUTS ON LEFT MAGNET CLAMP (OPTIONAL STEP 4)



ROC DEVICE WITH FULLY CHARGED BATTERY ATTACHED AND MAGNET CLAMPS LOCKED.

INDICATED WITH ARROW: PORT FOR HHC COMMUNICATIONS CABLE.

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

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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 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

1. Follow the on-screen prompts to complete racking procedure. Navigate selections using perimeter buttons on HHC (backlit in green). “Up” and “Down” will toggle through options on screen. “Right” and “Left” will confirm selections.
2. Note: system will park SDB components during setup process. This may result in some movement of bracket prior to official start of racking process.
3. 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.**
4. System will perform action as selected, displaying progress on screen.
5. 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. Release magnets to 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.

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 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.

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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