

Quick Operating Guide

WARNING

Only qualified persons who are knowledgeable in the installation, operation, and maintenance of overhead and underground electric distribution equipment, along with all associated hazards, may install, operate, and maintain the equipment covered by this publication. A qualified person is someone who is trained and competent in:

- The skills and techniques necessary to distinguish exposed live parts from nonlive parts of electrical equipment
- The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed
- The proper use of special precautionary techniques, personal protective equipment, insulated and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment

These instructions are intended **ONLY** for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.




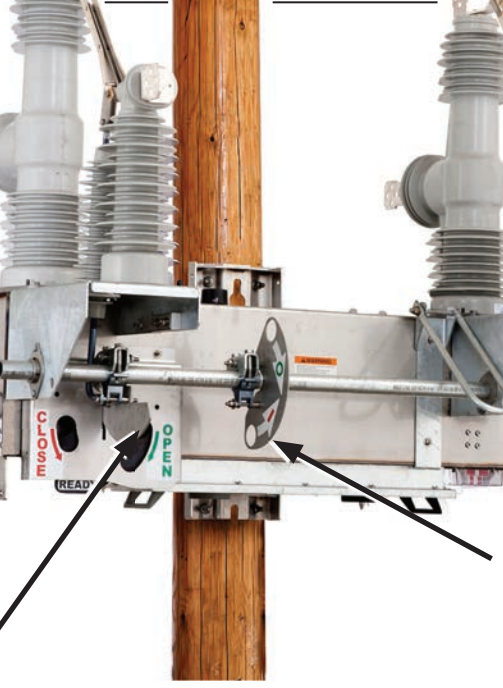

 <p>HOT LINE TAG</p> <p>GROUND TRIP BLOCK</p>	<p>HOT LINE TAG lever To manually apply a hot line tag: Pull down on the HOT LINE TAG tag lever. To clear a manually applied hot line tag: Push up on the HOT LINE TAG lever. To clear an electronically applied hot line tag when a hot line tag has been applied manually: Push up on the HOT LINE TAG lever. Then, pull down and push up on the HOT LINE TAG lever once, without delay. To clear an electronically applied hot line tag when a hot line tag has not been applied manually: Pull down and push up on the HOT LINE TAG lever twice, without delay.</p>	
<p>GROUND TRIP BLOCK lever (if furnished) To manually apply ground trip block: Pull down on the GROUND TRIP BLOCK lever. When in the applied position, the selected elements will be blocked or change as indicated in the setup. See S&C Instruction Sheet 766-530. To remove a manually applied GROUND TRIP BLOCK: Push up on the GROUND TRIP BLOCK lever. Placing the GROUND TRIP BLOCK lever in the Up position will not enable any elements that have not been enabled in the active protection profile.</p>		<p>DISCONNECT OPERATING lever See pages 6 and 7.</p>
 <p>OPEN/CLOSE/READY lever To open interrupters: Pull down on the right lever. In the Down position, closing is blocked. To close interrupters: Power must be available from batteries (if furnished) or an energized distribution line. Remove hot line tags, if applicable. Push up on the right lever. Then, pull down once on the left lever for the First Closing Profile, or quickly pull down twice on the left lever for the Second Closing Profile.</p>		

Figure 1. Pole-mounted 38-kV IntelliRupter PulseCloser Fault Interrupter with a manual disconnect.

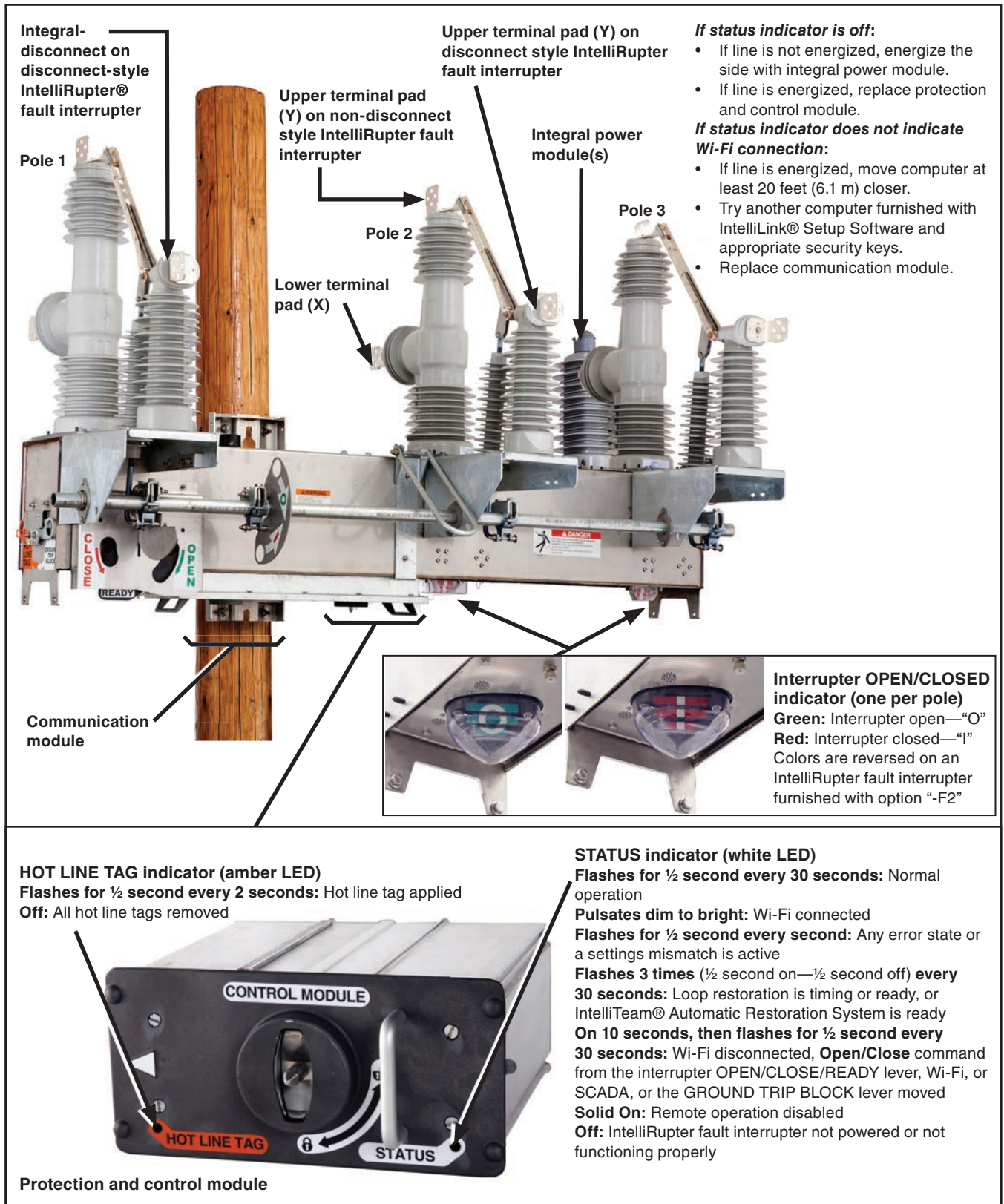
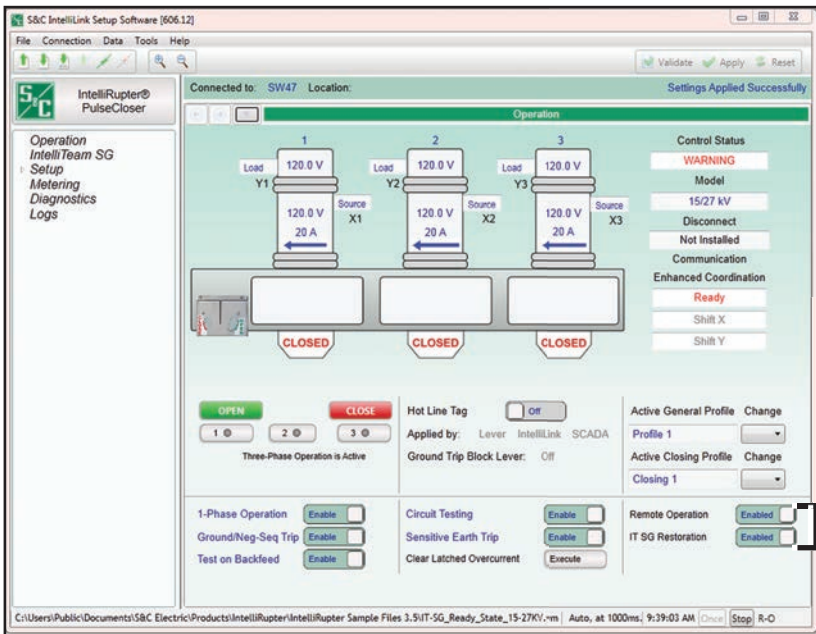


Figure 2. Pole-mounted 38-kV IntelliRupter PulseCloser Fault Interrupter with a manual disconnect.



Note: To disable automatic load restoration through the IntelliTeam® SG Automatic Restoration System (if furnished), select the **IT SG Operation – Disabled** option.

To disable the **Loop Restoration** feature (if furnished), select the **Loop Restoration – Disabled** option.

Figure 3. IntelliLink Setup Software Setup screen.

IntelliLink Setup Software: Operation Screen

Match the location of the interrupter OPEN/CLOSE/READY lever on the IntelliRupter fault interrupter to the **Open/Close/Ready** lever on this screen.

- Poles are labeled left to right, configured as A, B, and C.
- X and Y terminal designations are configurable and affect directionality. The default configuration is: Upper terminal pads (Y1, Y2, and Y3) are labeled Y, and Lower terminal pads (X1, X2, and X3) are labeled X.
- Voltage is shown for the three poles at each terminal pad. Phase-to-ground voltage (1-grd, 2-grd, and 3-grd), or phase-to-phase voltage (1-2, 2-3, and 3-1) can be selected.
- Interrupter **Open/Close** indicators match the indicators on IntelliRupter fault interrupter, in this case they are open.
- When IntelliRupter fault interrupter has tripped open, the state of each pole is shown, for example: **TESTING-SEF**, **LOCKOUT-VOLTS** (lockout on voltage trip) or **LOCKOUT-FREQ** (lockout on frequency trip). For **LOCKOUT-OC** (lockout on overcurrent trip), a lightning bolt indicates the faulted phase(s) on the side the fault occurred. The current on each pole at the time of tripping is also shown.
- When an IntelliRupter fault interrupter is closed, load current and current direction are shown for each pole.
- “Control Status” shows the status of the protection

and control module (in this case **ALARM**). It may also display: **OKAY**, **WARNING**, **ERROR**, **MAINT MODE**, or **SETTINGS MISMATCH**.

- “Disconnect” shows the position of the visual disconnect: **Open**, **Closed**, or **Not Installed**.
- **Loop Restoration** or **Communication Enhanced Coordination** status is displayed when either feature is furnished and enabled.
- **OPEN** and **CLOSE** buttons trip and close the interrupters. A single phase can be operated if **Single Phase Operation** mode is active.
- **Single Phase Operation**, **Ground Trip Block**, and **Test on Backfeed** features can be enabled or disabled.
- **Hot Line Tag** feature can be enabled or disabled, and the application method is indicated.
- **Circuit Testing** and **Sensitive Earth Trip** features can be enabled or disabled.
- **Clear Latched Overcurrent** function can be executed.
- **Active General Profile** and **Active Closing Profile** modes can be selected.
- **Remote Operation** mode can be enabled or disabled.
- **IT SG Restoration** mode can be enabled or disabled.
- **Connected to:** and **Location:**—At the top of the screen, show the name and address of the IntelliRupter fault interrupter connected through IntelliLink or IntelliLink Remote software.

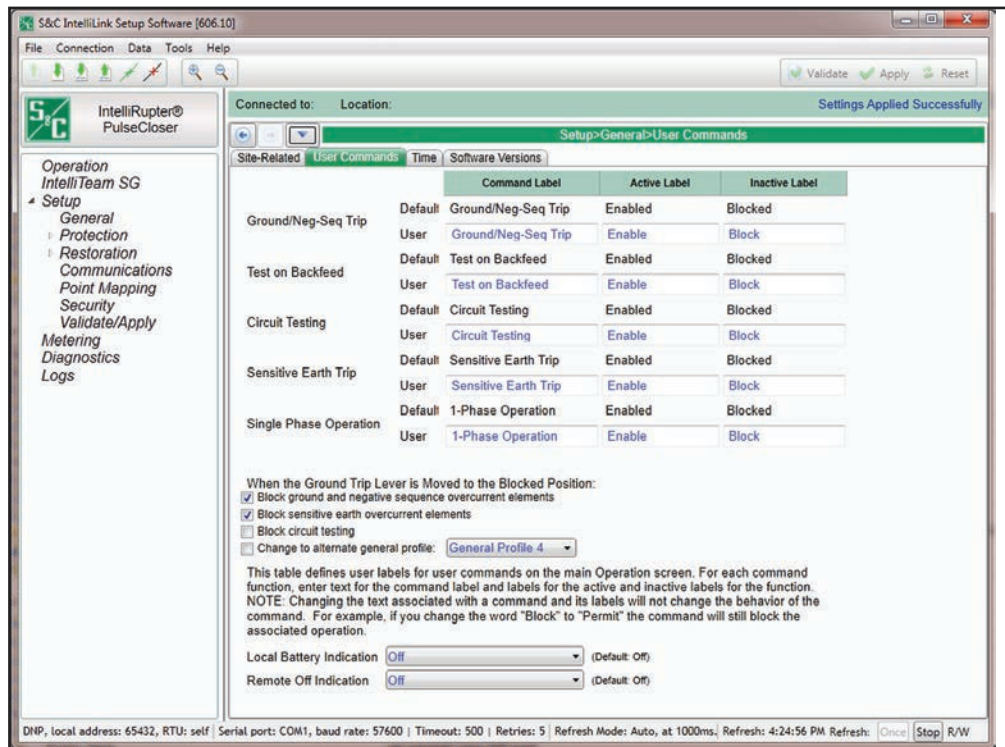


Figure 4. IntelliLink Setup Software *User Commands* screen.

IntelliLink Setup Software: Setup—General—User Commands Screen

- **Enter a Command Label, an Active Label, and an Inactive Label—for every user command.** These will be displayed on the *Operation* screen. Text entered for Active or Inactive Labels does not change their functionality.
- **Ground Trip Blocked functions**—Check to enable desired functionality.
- **Local Battery Indication**—Select the **On** option if a battery is installed, then the STATUS INDICATOR on the control module will flash ½ second every second when the battery is low, bad, or disconnected. If no battery is installed, select the **Off** option.
- **Remote Off Indication**—The STATUS INDICATOR on the control module can be configured to display **solid on** when **Remote Operation** mode is disabled.
- **Connected to: and Location:** At the top of the screen, show the name and address of the IntelliRupter fault interrupter connected through IntelliLink software.

Note: Refer to S&C Instruction Sheet 766-530 for detailed information about IntelliRupter fault interrupter configuration.

Open DISCONNECT OPERATING lever (if furnished)

To open the disconnect:

Place the OPEN/CLOSE/READY lever in the **Lock Open** position. For the best leverage, the lever placement should be at an angle, as shown. Then, pull down on the right side of the DISCONNECT OPERATING lever. Interrupters can now be closed and opened for testing.

Note: For the best opening and closing manual operation, the lever should be placed in the positions as shown. These are different for both the **Open** and **Close** operations, so the operator may have to adjust his positioning to get the best result.

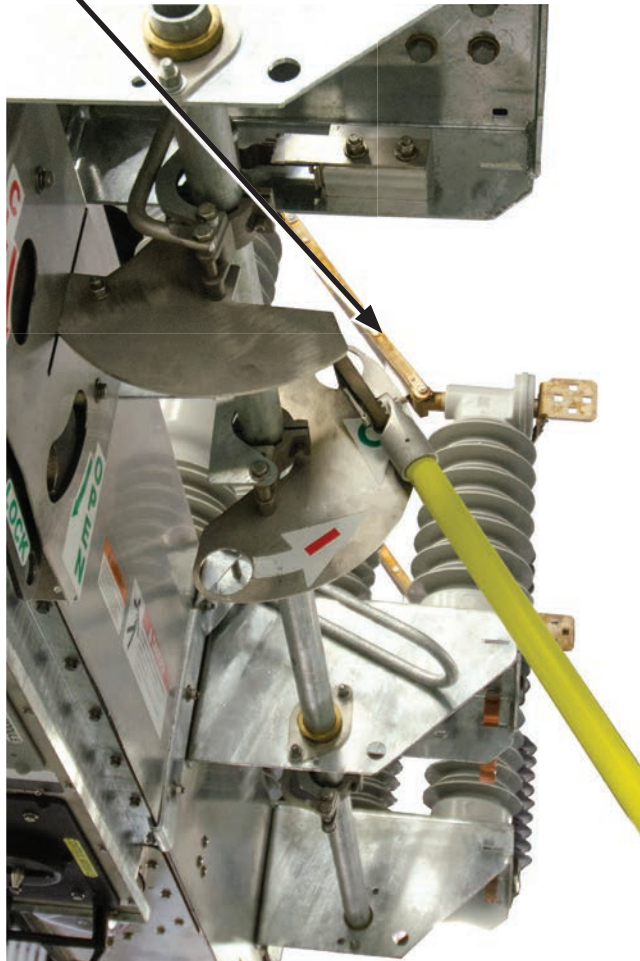
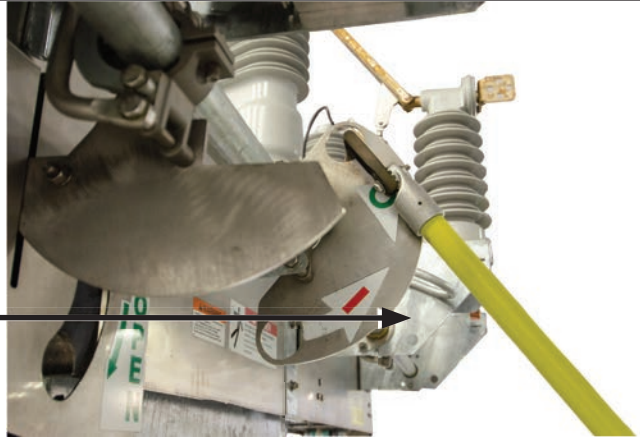


Figure 5. Open Disconnect operation.

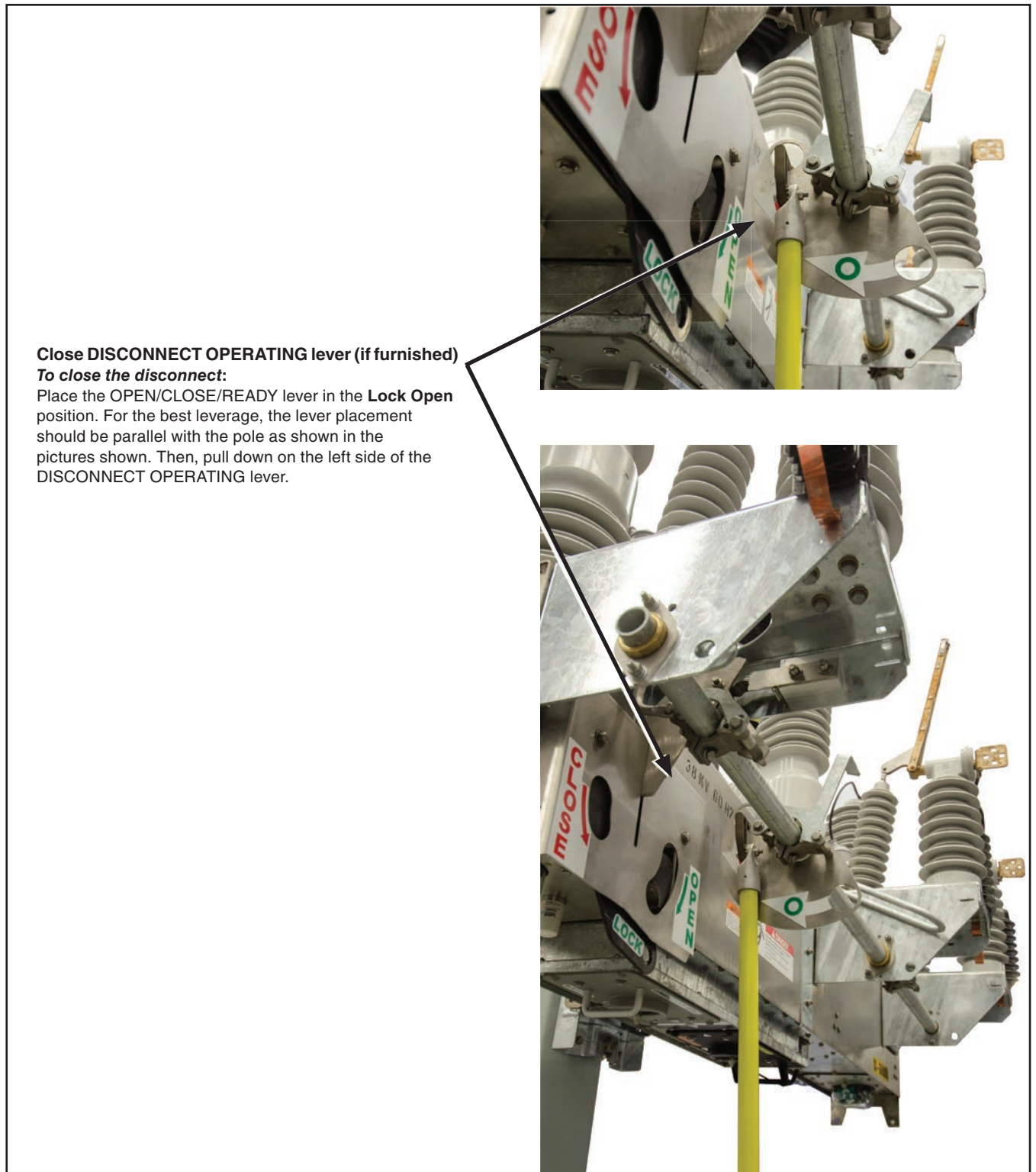


Figure 6. Close Disconnect operation.