

## Smart Touch Controller (STC) LED Polarity Test

**ISSUE:** LED indicators for inputs and outputs may not illuminate (all other board functions are not impacted).

**OPERATOR MODEL(S):** All hydraulic operators and control board spare parts orders.

**ISSUE DATE:** 12/11/2019

**IMPACTED PRODUCT DATES:** Parts & operator shipments from 8/29/2019 through 12/05/2019.

**SITUATION:** LEDs on some Smart Touch Controller (STC) boards will not illuminate making it difficult to determine if inputs/outputs are active. Affected boards are subject to replacement.

**ACTION:** The customer may use one of three following options to test LEDs:

### OPTION #1: TESTING A NON-POWERED STC BOARD

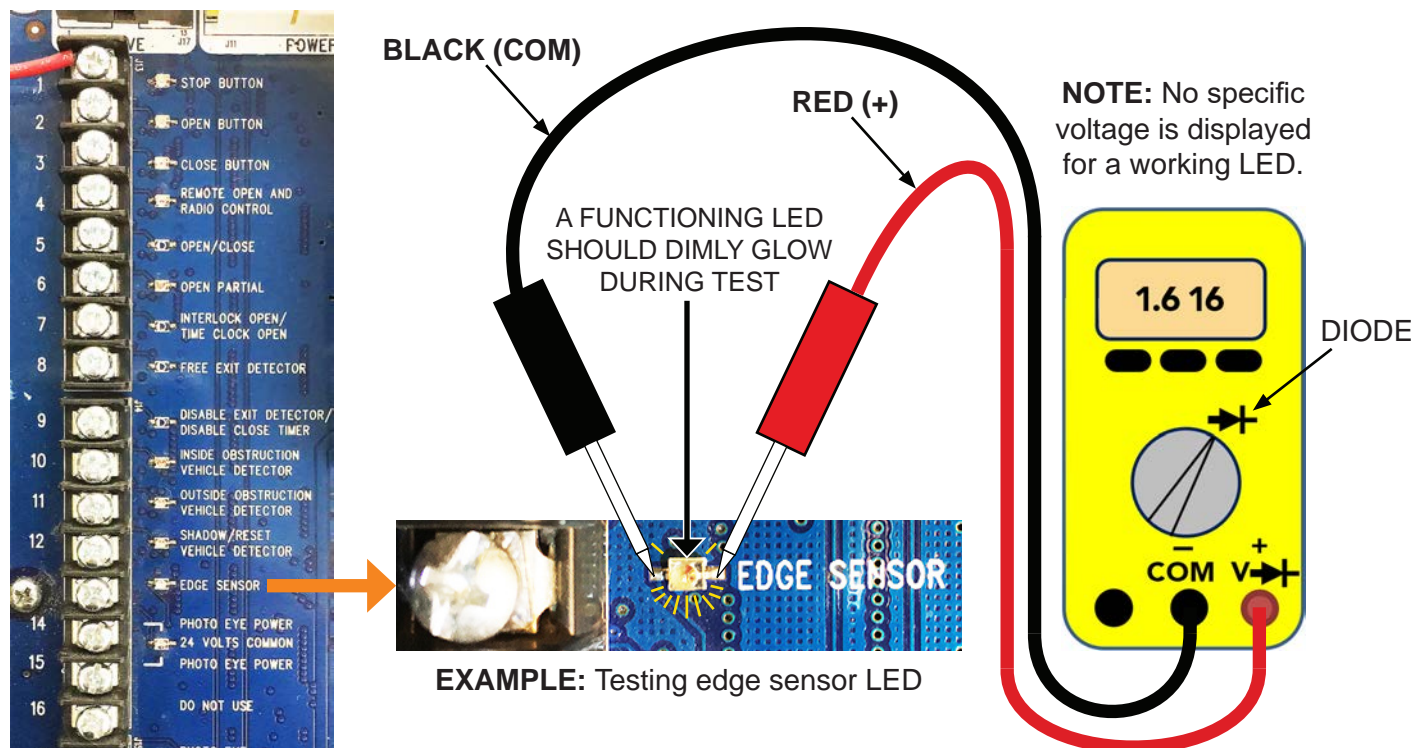


FIGURE 1: Testing STC Input LEDs with Multimeter.

For a board that is not installed or powered, verify LED function by using the DIODE function of a multimeter:

1. Connect negative probe lead (black) to cathode on left side of LED (near the contact block). Connect positive probe lead (red) to anode on right side of LED. A functioning LED will dimly glow during this test.
2. If any of these LED's remain off during test notify Nice HySecurity and a replacement board will be provided.

## OPTION #2: TESTING A POWERED STC BOARD

1. Connect a wire or jumper from the COM terminal on the Power Supply Board to the screw terminal of any inputs, 2 through 12.
2. Each LED should light. If this is the case the board is not impacted by this problem.
3. If LEDs do not light up, notify Nice HySecurity and a replacement board will be provided.

## OPTION #3: ALTERNATIVE TEST FOR A NON-POWERED STC BOARD

1. Apply 24V from a power supply or batteries to the +24V terminal (+) and the COM terminal (-) on the Radio Options section at the bottom of the board (FIGURE 2). This will power the board.
2. Use a jumper wire to jump between the COM terminal and input terminals 2 through 12 (example below shows connection to input 12). If the LED corresponding to the input lights, the board is not impacted by this problem. If an LED remains off during test, notify Nice HySecurity and a replacement board will be provided.

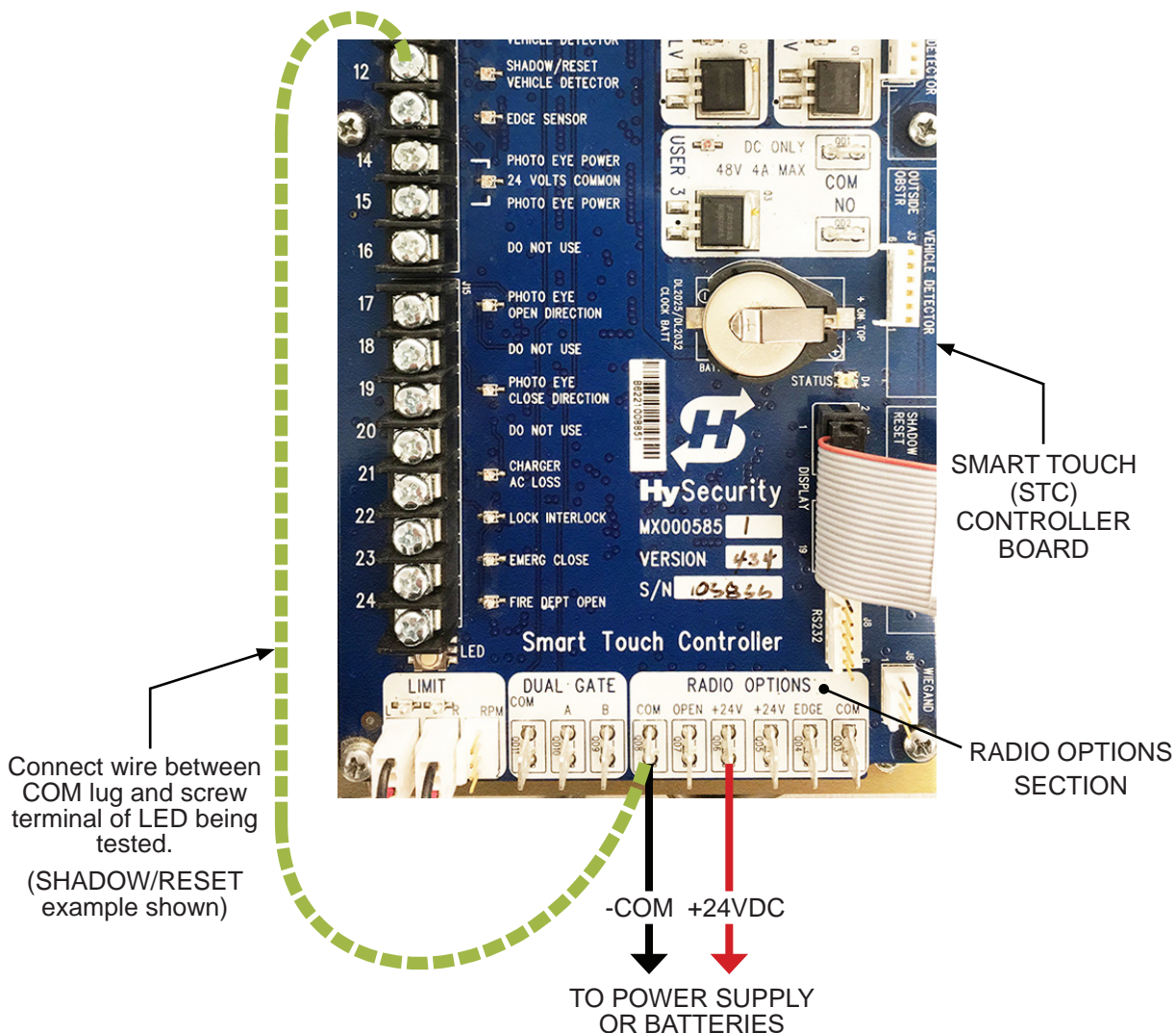


FIGURE 2: Testing STC Input LEDs Using 24VDC Power Source and COM Jumper