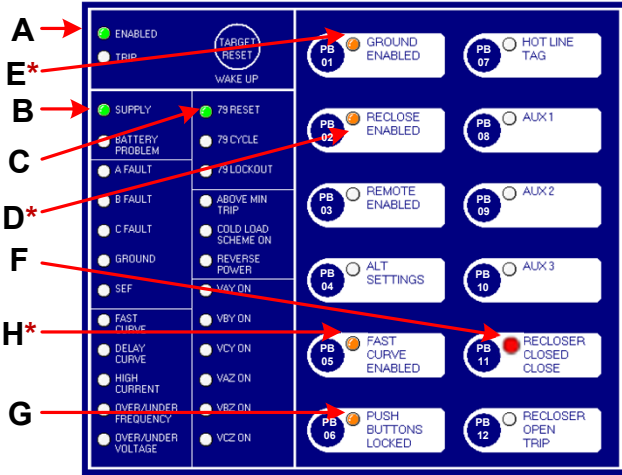


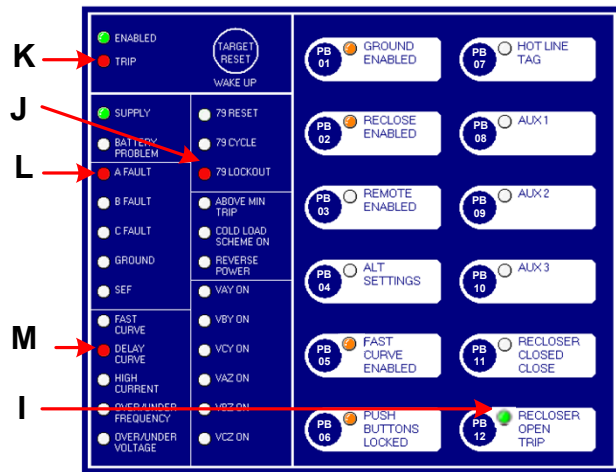
RECLOSER TRAINING CARD with 651R CONTROL

INDICATING LIGHTS



NORMAL OPERATING LIGHTS

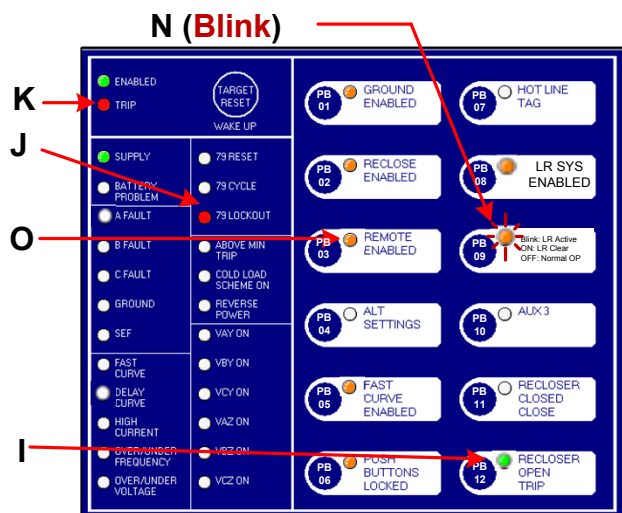
- A. RECLOSER ENABLED LED ON
- B. 120 VAC SUPPLY TO RECLOSER LED ON
- C. 79 RESET LIGHT ON
- * D. RECLOSE ENABLED LED ON ALLOWS RECLOSER TO AUTO-CLOSE AFTER TRIP
- * E. GROUND ENABLED LED ON ENABLES/DISABLES GROUND TRIPPING (SEE SETUP LABEL ON DOOR FOR NORMAL ON/OFF LED CONDITION)
- F. RED LED ON = RECLOSER CLOSED
- G. PUSH BUTTONS LOCKED LED ON (DISABLES ALL BUTTONS EXCEPT PB12-TRIP).
- * H. FAST CURVE ENABLED LED ON ENABLES/DISABLES FAST TRIPPING TO SAVE/BLOW FUSES (SEE SETUP LABEL ON DOOR FOR NORMAL ON/OFF LED CONDITION)
- * ON/OFF VARIES WITH SCHEME – SEE SETUP LABEL ON DOOR



LIGHTS ON AFTER LOCKOUT DUE TO A FAULT

- I. GREEN LED INDICATES SWITCHES ARE OPEN
- J. LED INDICATES RECLOSER IS IN THE LOCKOUT STATE
- K. LED INDICATES RECLOSER HAS TRIPPED
- L. SEVERAL LED'S TO IDENTIFY LOCATION OF FAULT
- M. SEVERAL LED'S TO IDENTIFY TYPE OF TRIP

AUX 1,2,3 LIGHTS AND BUTTONS MAY BE USED FOR SPECIAL APPLICATIONS
(REFER TO SETUP LABEL AND/OR SPECIAL TRAINING PROVIDED)



LIGHTS AFTER LAAR TRIP

- I. GREEN LED INDICATES SWITCHES ARE OPEN
- J. LED INDICATES RECLOSER IS IN THE LOCKOUT STATE
- K. LED INDICATES RECLOSER HAS TRIPPED
- N. AMBER LED WILL BLINK FOR LAAR TRIP

CLOSE AFTER LAAR TRIP

1. CALL QSE (LR REP) FOR ALL-CLEAR OR VERIFY BLINKING LED IS NOW SOLID
 2. PUSH AND HOLD PB06 FOR THREE SECONDS (LED WILL TURN OFF) TO UNLOCK PANEL BUTTONS
 3. AFTER ALL-CLEAR, PUSH CLOSE BUTTON
 4. THE GREEN "OPEN" LED SHOULD TURN OFF
 5. THE RED "CLOSE" LED SHOULD TURN ON
 6. THE AMBER LR LED (PB09) GOES OFF
 7. PUSH AND HOLD (PB06) FOR THREE SECONDS (LED WILL TURN ON) TO LOCK PANEL BUTTONS
- *O. IF REMOTE CLOSE IS ACTIVE PB-03 WILL ENABLE/DISABLE REMOTE CLOSING LOCALLY
- LED ON = REMOTE CLOSE ENABLED**
LED OFF = REMOTE CLOSE DISABLED

PROCEDURES



LED STATUS AFTER LOCKOUT

CLOSING RELAY AFTER LOCKOUT (GREEN "OPEN" LED WILL BE ON)

- 1 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN OFF) TO UNLOCK PANEL BUTTONS
- 2 PUSH AND HOLD TARGET RESET (BESIDE PB01) ONE SECOND TO RESET RECLOSER (ALL LED'S ON RECLOSER WILL TURN ON FOR LAMP TEST)
- 3 PUSH PB11 TO CLOSE RECLOSER (LED WILL BE RED)
- 4 THE GREEN "OPEN" LED SHOULD TURN OFF
- 5 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN ON) TO LOCK PANEL BUTTONS

PLACE HOT LINE TAG

- 1 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN OFF) TO UNLOCK PANEL BUTTONS
- 2 PUSH PB07 (HOT LINE LED WILL TURN ON & RECLOSE ENABLE LED OFF). THIS WILL DISABLE AUTO RECLOSING
- 3 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN ON) TO LOCK PANEL BUTTONS

REMOVE HOT LINE TAG

- 4 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN OFF) TO UNLOCK PANEL BUTTONS
- 5 PUSH PB07 (HOT LINE LED WILL TURN OFF)
- 6 PUSH PB02. THIS WILL ENABLE AUTO RECLOSING (RECLOSER ENABLED LED WILL TURN ON)
- 7 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN ON) TO LOCK PANEL BUTTONS

BYPASS RECLOSER

- 1 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN OFF) TO UNLOCK PANEL BUTTONS
- 2 PUSH PB01. LED WILL TURN OFF AND DISABLE GROUND TRIPPING (AVOID POTENTIAL GROUND TRIP WHILE SETTING BYPASS SWITCHES)
- 3 PROCEED TO CLOSE BYPASS DOORS (LINE, LOAD AND BYPASS DOORS ALL CLOSED)
- 4 PUSH PB12 TO TRIP RECLOSER (LED WILL BE GREEN)
- 5 THE RED "CLOSE" LED SHOULD TURN OFF
- 6 OPEN LINE & LOAD DISCONNECTS TO ISOLATE RECLOSER (LEAVE YELLOW HANDLES UPRIGHT)

RESTORE RECLOSER FROM BYPASS

- 1 VERIFY ALL THREE YELLOW HANDLES ARE UPRIGHT AND VISUAL TARGETS ARE **OPEN**
- 2 CLOSE LINE & LOAD DISCONNECTS (LINE, LOAD AND BYPASS DOORS ALL CLOSED)
- 3 PUSH PB11 TO CLOSE RECLOSER (LED WILL BE RED AND CHECK VISUAL TARGETS ARE **CLOSED**)
- 4 THE GREEN "OPEN" LED SHOULD TURN OFF
- 5 **MAKE SURE GROUND ENABLE LED IS OFF.** IF NOT, PUSH PB01 TO TOGGLE LED OFF (AVOID POTENTIAL GROUND TRIP WHILE OPENING BYPASS SWITCHES)
- 6 OPEN BYPASS SWITCHES TO RESTORE LOAD THRU RECLOSER
- 7 PUSH PB01 TO ENABLE GROUND (LED WILL TURN ON)
- 8 PUSH AND HOLD PB06 FOR **THREE** SECONDS (LED WILL TURN ON) TO LOCK PANEL BUTTONS

VIEW AN EVENT

Event Type	Description
AG, BG, CG	Single phase-to-ground faults. Appends T if TRIP ^p asserted.
ABC	Three-phase faults. Appends T if TRIP ^p asserted.
AB, BC, CA	Phase-to-phase faults. Appends T if TRIP ^p asserted.
ABG, BCG, CAG	Phase-to-phase-to-ground faults. Appends T if TRIP ^p asserted.
TRIP	Assertion of Relay Word bit TRIP ^p (phase involvement is indeterminate, so just TRIP is displayed).
ER	SELOGIC control equation setting ER. Phase involvement is indeterminate.
TRIG	Execution of TRIGGER command.
PULSE	Execution of PULSE command.

^p p = A, B, C, or 3P.

1. PUSH BUTTON UNTIL YOU SEE THIS ON DISPLAY →
2. PUSH BUTTON **ONCE** TO SEE THIS ON DISPLAY →
3. PUSH BUTTON UNTIL YOU SEE THIS ON DISPLAY →
4. PUSH BUTTON AGAIN TO SHOW LATEST EVENT →
5. PUSH TO SCROLL DOWN TO EARLIER EVENTS →
6. UNDERLINE MARK SHOWS EVENT SELECTED →
7. PUSH BUTTON TO VIEW EVENT DETAILS →
8. PUSH TO SCROLL DOWN TO VIEW EVENT TYPE, PHASE CURRENTS, AND OTHER USEFUL INFORMATION →