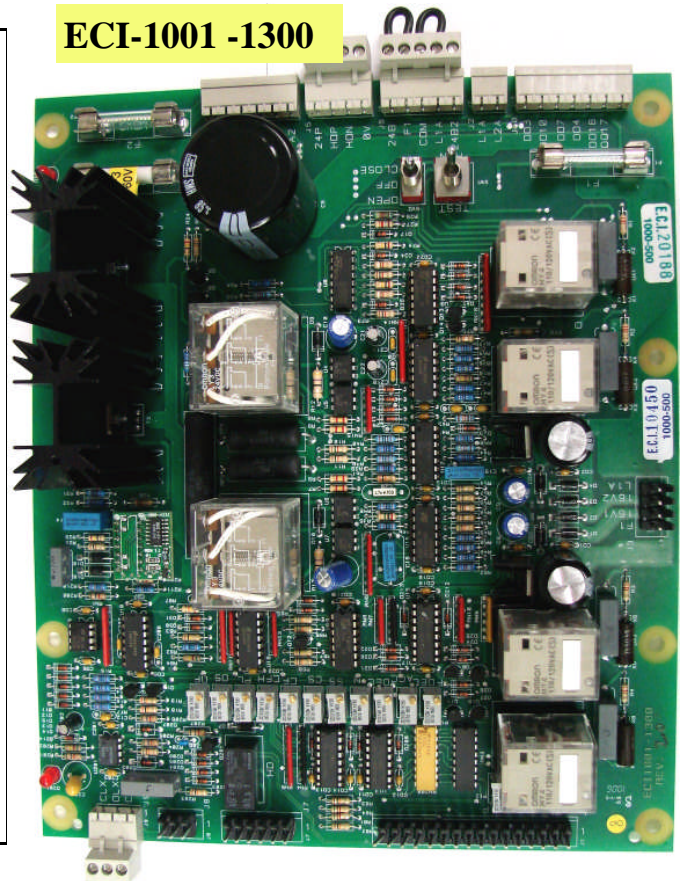## HOW TO REPLACE ECI-1001-1300 WITH ECI-1000-1400

1. Switch the power to the door operator off and wait two minutes for the capacitors to discharge.
2. Unplug all the connectors from the existing board starting with **J2 (L1A, L2A).**
3. Remove the old board by unscrewing the four nuts on each side of the board.
4. Install the new board, which is a direct replacement of the old one.
5. Plug in all the connectors except **J10** and **J2**.
6. Connect the ground to **J10** connector **pin # 7.**
7. Switch **SW-1** to **TEST**, **SW-2** and **SW-3** to **OFF**.
8. Plug in **J2**, power line connector and apply power to the board.
9. Use **SW-3** and **SW-2** switches to test the new board according to the "Electrical Adjustment Procedure."
10. In order to maintain the same direction of the motor, swap **A1** and **A2** motor wires on **J4** connector.

ECI-1001 -1300

HOW TO REPLACE ECI-1000-500 WITH ECI-1000 -1400

ECI-1000 – 500

1. Switch the power to the door operator off and wait two minutes for capacitors to discharge.
2. Unplug all the connectors from the existing board.
3. Disconnect **L1A** and **L2A** of the **J2** connector and connect them to **J2** connector (new board).
4. Reconnect all the wires of the **J2** connector (old board) to the **J10** connector (new board) follow the order: **DO3, DO10, DO7, DO4, DO18, DO17, GND.**
5. Disconnect **OV** yellow wire from **J4** connector, old board and connect it to the **J4** connector (new board). In the same way reconnect **RB1, RB2, A1, A2,** to the **J4** connector.
6. Disconnect the wire from **–VS** (**J4** connector old board) and remove the old board.
   Remove the mounting plate out of the door operator frame. Disconnect the wires from the capacitor together with the wire previously disconnected from the terminal **–VS** and and pull them out. Slide the orange wire supplied with the new board onto the positive terminal of the rectifier and put the mounting plate back into the frame. Connect the other end of the orange wire to terminal **54P** (**J4** connector).
7. Install the new board and connect the Molex lugs **J7, J1,** use **1** to **15** connectors, **16** is not used.
8. Double check your work and follow steps **7** to **9** of :
   "How to replace ECI-1001-1300 with ECI-1000-1400" mentioned above.
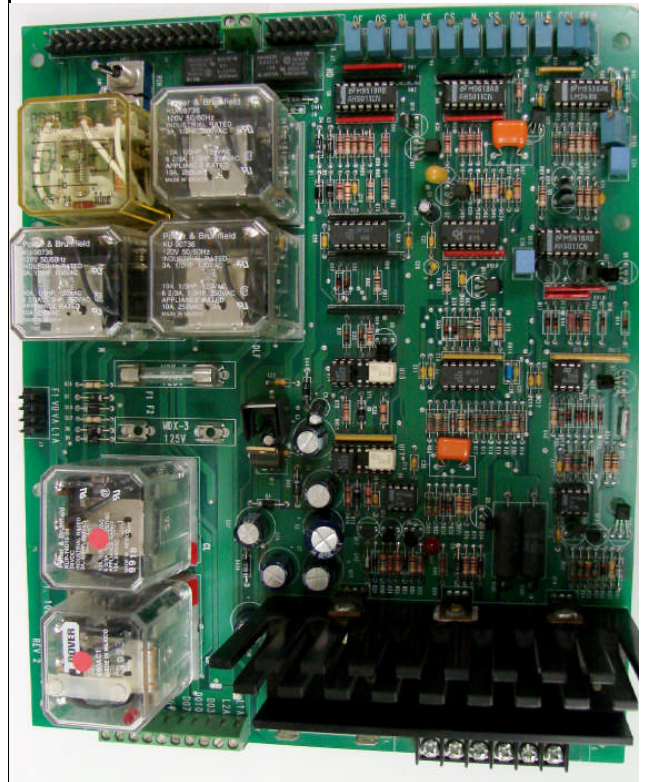
ECI-1000 -1400 BOARD
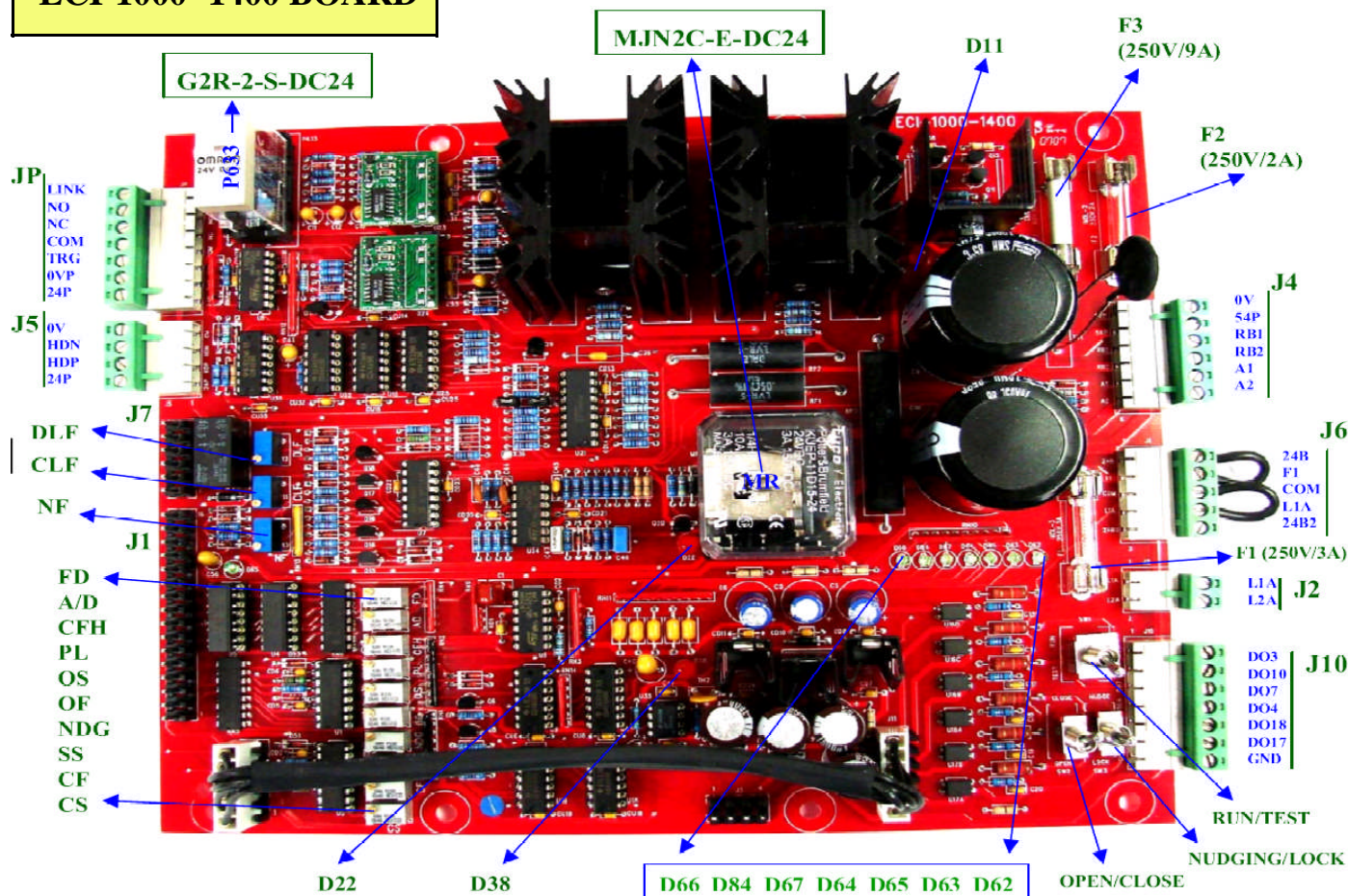
POTENTIOMETER FUNCTIONS

P1	OS	OPEN SLOW
P2	PL	INITIAL OPEN SPEED
P3	CFH	CLOSE FAST SPEED FOR HEAVY DOOR OPTION
P4	CS	CLOSE SLOW SPEED
P5	SS	SLOW START SPEED IN CLOSING
P6	NDG	NUDGING SPEED
P7	OF	OPEN FAST SPEED
P8	CF	CLOSE FAST SPEED
P9	FD	DECELERATION RAMP DURING REVERSAL FROM CLOSE TO OPEN
P10	A/D	SPEED ACCELERATION AND DECELERATION IN BOTH DIRECTION
P11	CLF	CLOSE FORCE LIMIT
P12	DLF	DOOR LOCKING FORCE
P13	NF	NUDGING FORCE LIMIT

FUNCTIONS OF THE LEDs

D11 - dynamic brake circuit (red) - **OFF** when the braking circuit is active.

D22 - motor relay (red) - **ON** when the motor relay is picked up.

D38 - time out (red) - OFF when the motor current has been lowered to the **NF** (nudging force) level.

D62 - open limit (green) – **OFF**, when the door is fully open.

D63 - open command (green) – **ON**, when the open command is active.

D64 - door locking force command (green) – **ON**, when the **DLF** command is active.

D65 - close command (green) – **ON**, when the close command is active.

D66 - close limit (green) – **OFF**, when the door is fully closed.

D67 - nudging command (green) – **ON**, when the nudging command is active.

D84 - power stage shutdown (green) – **ON**, when the power stage is active.

D85 - run command (green) - **ON** when the closing or opening operation is enabled.