SECTION 10: 636 CONTROL BOARD FEATURES

10.1 EMERGENCY BYPASS CONNECTOR

17 USING THE EMERGENCY BYPASS CONNECTOR

The emergency bypass connector is used to open the gate(s) even if the control box open/close gate button is locked. Instructions for use are as follows:

1. Unplug the motor harness from the Master (or Slave) Connector and momentarily insert into the Emergency Bypass Connector to open the gate.

> **NOTE:** Using the emergency bypass connector only applies motor power to the actuator(s) to open the gate(s), with no limit function, closing function, or other setting options.

2. Make sure to unplug the connector from the emergency bypass before the gate fully opens and binds.
3. In the event the motor is not disconnected quickly enough, the blue 15 amp fuse (see IMAGE 17-1) will protect the circuit board from damage and should be replaced when the original problem is fixed.

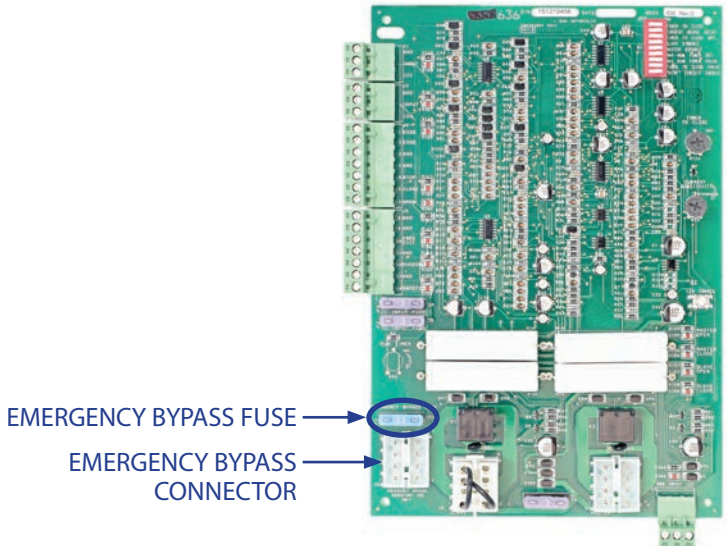


IMAGE 17-1: EMERGENCY BYPASS CONNECTOR AND FUSE LOCATIONS

10.2 636 CONTROL BOARD CONTROLS, SWITCHES, & FUSES

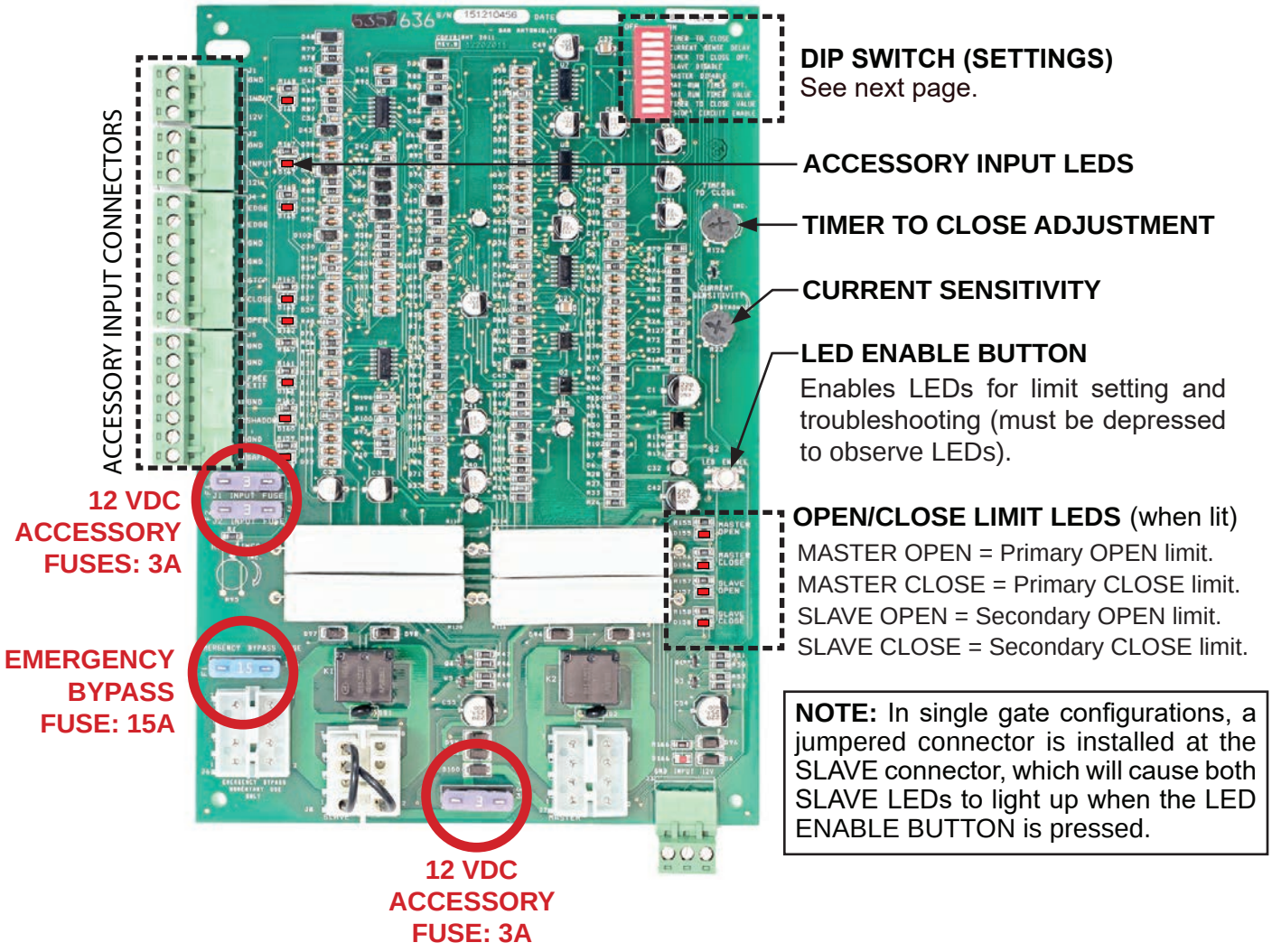


FIGURE 10-1: 636 CONTROL BOARD CONTROLS, SWITCHES, & FUSES

TIMER TO CLOSE ADJUSTMENT

Rotate clockwise to increase time before gate closes, and counter-clockwise to decrease time before gate closes. If program switch #3 is on, the gate must activate the open limit switch in order for the timer to close to operate.

CURRENT SENSITIVITY

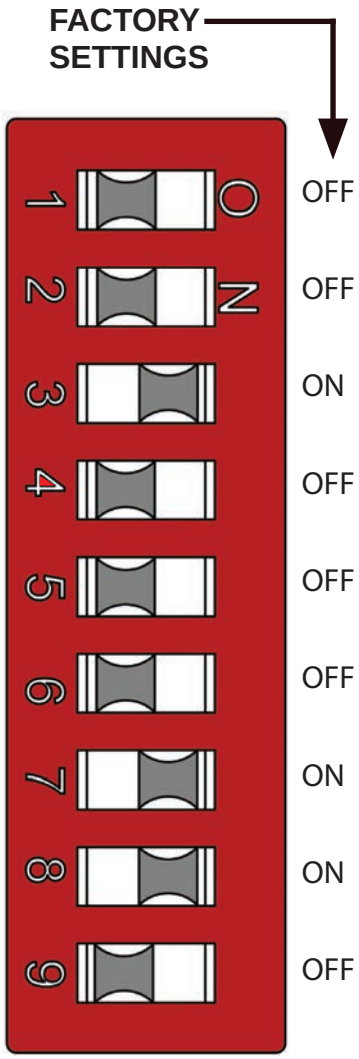
Rotate clockwise to decrease sensitivity (more force) and counter-clockwise to increase sensitivity (less force).

WARNING: The current sensitivity should be adjusted to prevent injury in the event of someone being entrapped in the gate. This feature should be periodically tested to assure proper operation. Refer to SAFETY PRECAUTIONS in SECTION 3.

ACCESSORY INPUT LEDS

A lit red LED to the right of an accessory input indicates that the accessory is connected and functioning.

10.3 DIP SWITCH SETTINGS



DIP SWITCH SETTINGS

1 - TIMER TO CLOSE - Automatically closes gate
- ON - Close timer enabled
- OFF - Close timer disabled (FACTORY)

2 - CURRENT SENSITIVITY OPTION - Delays current sensing from start up
- ON - 4 second delay
- OFF - 2 second delay (FACTORY)

3 - TIMER TO CLOSE OPTION
- ON - timer to close works only when open limit switch is activated (FACTORY)
- OFF - timer to close works from any open gate position

4 - SLAVE DISABLE
- ON - disables slave side of dual board
- OFF - enables slave side of dual board (FACTORY)

5 - MASTER DISABLE
- ON - disables master side of dual board
- OFF - Enables master side of dual board (FACTORY)

6 - MAXIMUM RUN TIMER OPTION
- ON - stops and reverses gate if run timer times out before closing
- OFF - stops gate if run timer times out before closing (FACTORY)

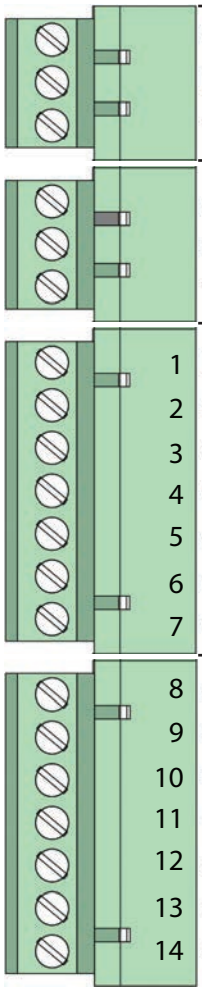
7 - MAXIMUM RUN TIMER VALUE
- ON - 40 seconds (FACTORY)
- OFF -20 seconds

8 - TIMER TO CLOSE VALUE
- ON - 20 to 70 seconds (adjustable) (FACTORY)
- OFF - 10 to 35 seconds (adjustable)

9 - OPEN, STOP, CLOSE CONTROL ENABLE
- ON - allows for open, stop, close unit (optional) to operate gate
- OFF - normal operation (If 9 is on, terminals 4 & 5 must be normally closed for proper operation.) (FACTORY)

10.4 ACCESSORY CONNECTORS

A number of accessory inputs are provided on the 636 control board as shown below:



	GND	GND - Supplied Battery Ground
	INP	J1 INPUT - Step by Step activation
	12V	12V - Supplied battery voltage (protected with 3AMP fuse)
	GND	GND - Supplied Battery Ground
	INP	J2 INPUT - Step by Step activation
	12V	12V - Supplied battery voltage (protected with 3AMP fuse)
1	EDGE	EDGE - Reverse edge input. Stop and reverse gate if closing, resets close timer if gate open.
2	EDGE	EDGE - Reverse edge input. Stop and reverse gate if closing, resets close timer if gate open.
3	GND	GND - Supplied Battery Ground
4	GND	GND - Supplied Battery Ground
5	STOP	STOP - Stop input from a 3 button station
6	CLOSE	CLOSE - Close input from a 3 button station
7	OPEN	OPEN - Open input from a 3 button station
8	GND	GND - Supplied Battery Ground
9	GND	GND - Supplied Battery Ground
10	FREE EXIT	FREE EXIT - Opens gate if closed, stops and reverses gate if closing, resets close timer if gate is open.
11	GND	GND - Supplied Battery Ground
12	SHADOW	SHADOW - Resets close timer when gate is open (also referred to as under gate loop)
13	GND	GND - Supplied Battery Ground
14	SAFETY	SAFETY - Resets close timer if gate is open, stops and reverses if gate is closing. Does not open a closed gate.