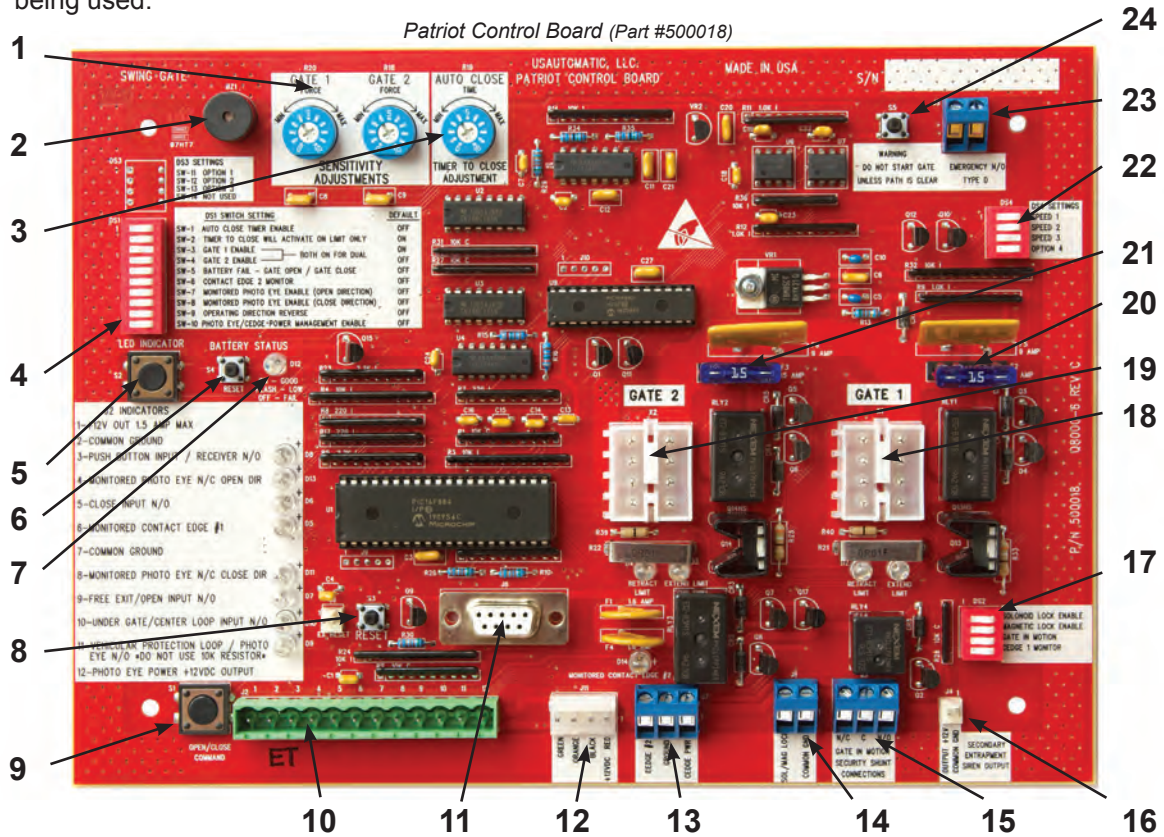


Patriot Control Board Information

The Patriot control board is capable of operating two gates. If your installation is a single gate you can operate the gate on the Gate 1 or Gate 2 connector. Set DS1 dipswitch "ON" for the connector being used.

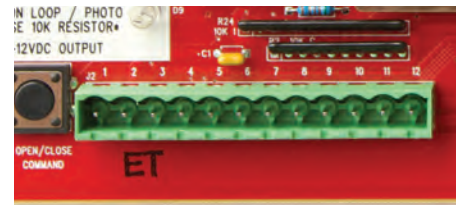


1	Sensitivity Adjustments	13	J7 - Contact Edge #2. Monitored Entrapment and Wireless Edge 12v power
2	Entrapment Siren	14	J1 Solenoid Lock / Mag Lock Output
3	Timer to Close Delay Adjustment	15	J3 Gate N Motion / Security Shunt
4	DS1 Dip Switches	16	J4 Entrapment Siren
5	LED Indicator Button	17	DS2 Function Dip Switches
6	S4 Battery Reset button	18	Gate 1 Plug
7	Battery Status LED	19	Gate 2 Plug
8	S3 System Reset	20	15 Amp Fuse Gate 1
9	S1 Open/Close Button	21	15 Amp Fuse Gate 2
10	J2 Terminal	22	DS4 Dip Switches - Speed Control
11	J8 App Plug	23	Emergency Type D Terminal
12	J11 LCR receiver Plug	24	S5 Type D button

J2 Terminal Description

The accessory connector is a plug which can be removed from the control board for ease of wiring and troubleshooting purposes.

Place finger below connector and pull out to remove.



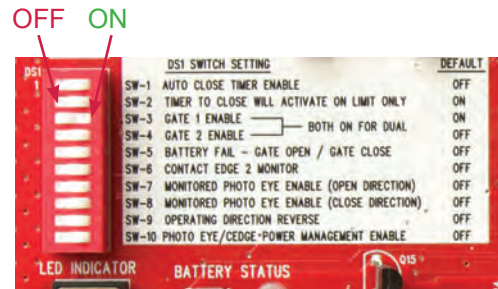
J2 Terminal

Terminal	
1	+12 vdc Output <i>(Maximum current output 1.5 amp - 1500 milliamps)</i>
2	Common Ground Input
3	Push Button Input <i>(normally open contacts)</i> <i>(Push button, radio control, keypad, etc.)</i>
4	PhotoEye Open Direction N/C Input <i>DS1 Switch 7 must be on. No 10K resistor.</i>
5	Close Input <i>(normally open contacts)</i>
6	Contact Edge #1 N/O connection monitored entrapment <i>DS2 switch 4 must be ON when monitored edge is connected</i>
7	Common Ground Input
8	PhotoEye Closed Direction N/C Input <i>DS1 Switch 8 must be on. No 10K resistor.</i>
9	Free Exit / Open Input <i>(normally open contacts)</i> <i>Loop input or any hold open input such as a 7-day timer, telephone access unit, or maintain contact switch (normally open contacts). These devices open the gate and will prevent the gate from closing if the contact is maintained. Once the contacts have been released, the gate can be closed with a closed signal device or the automatic close timer feature. Receiver relay2 pre-wired for latching open.</i>
10	Center Loop or Under Gate Loop Input <i>(normally open contacts)</i>
11	Safety Loop / Photo-eye / Reversing Edge Input used for vehicular protection devices. <i>(normally open contacts) *NO 10K DEVICES</i>
12	Photo Eye Power +12 vdc output 1 amp max current <i>Only present when DS1 switch 10 is ON and gate is moving or DS1 switch 3 and 4 are OFF and DS1 switch 10 is ON used for installation.</i>

DSI Function Dip Switches

ON - Down on right

OFF - Down on left

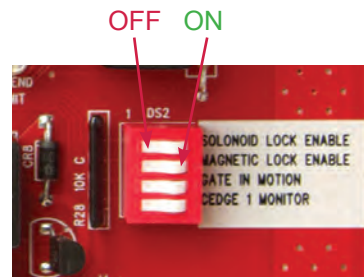


Switch		Setting	Factory Settings are shown in bold type
1	Automatic Close Timer Enable <i>(Not recommended unless safety devices are installed)</i>	ON	Timer to close is activated
		OFF	Timer to close is disabled
2	Timer to Close Function	ON	Timer to close activates only if open limit is activated
		OFF	Timer to close works from any point the gate is stopped
3	Gate 1 Enable	ON	Gate 1 operator enabled to function
		OFF	Gate 1 operator disabled
4	Gate 2 Enable <i>(both gates on for dual)</i>	ON	Gate 2 operator enabled to function
		OFF	Gate 2 operator disabled
5	Battery Fail <i>If battery voltage falls below 10vdc durring a gate cycle the gate will travel to the selected position and shut down.</i>	ON	Gate shuts down in Closed Position
		OFF	Gate shuts down in open position
6	Contact Edge # 2 Monitor <i>Must be On if monitored contact edge is wired to J7 pin3</i>	ON	Monitored contact edge is installed J7 pin 3. Contact Edge must have 8.25K or 10K resistor.
		OFF	No monitored contact edge installed
7	Photo Eye Open Only N/C Monitored Entrapment	ON	Monitor Photo Eye open direction only
		OFF	No monitored Photo Eye open direction installed
8	Photo Eye Closed Only N/C Monitored Entrapment	ON	Monitor Photo Eye closed direction only
		OFF	No monitored Photo Eye closed direction installed
9	Operating Direction Reverse <i>(Must be on for push to open installations to operate correctly)</i>	ON	Push to Open
		OFF	Pull to Open
10	Photo Eye / Contact Edge Power Management Enable <i>*when ON 12 vdc will be present at J2 pin 12 whenever gate is in motion.</i>	ON	Enables PEPM
		OFF	Disables PEPM

DS2 Function Dip Switches

ON - Down on right

OFF - Down on left



DS2 Switches

Switch		Setting	Factory Settings are shown in bold type
1	Solenoid Lock Enable / Gate in Operation Indicator / Gate Leaf Delay	ON	Solenoid lock output energizes half second before gate begins to move and releases 3 seconds after the gate begins to move. For gate in operation indicator to operate DS1 SW 5 must also be ON. (Energizes = +12 vdc output 1.5 amp max/ / Gate leaf delay/gate 2 delays 2 seconds) Gate Leaf Delay
		OFF	Solenoid lock / gate in operation indicator / gate leaf delay is inactive
2	Magnetic Lock Enable	ON	Magnetic lock output energizes on Master Limit and releases half second before gate begins to open. (Energizes = +12 vdc output 1.5 amp max)
		OFF	Magnetic lock output is inactive
3	Gate N Motion / Security Shunt Circuit / Open Gate Indicator	ON	Security shunt circuit relay is active (closed circuit)(wire in parallel) Relay activates half second before gate begins to open and stays activated until 4 seconds after gate reaches a closed limit
		OFF	Security shunt circuit relay is inactive (open circuit)
4	Contact Edge #1 Monitor (must be ON if monitored contact edge is installed at J2 pin 6)	ON	Monitored contact edge is installed J2 pin 6 Contact Edge must have 8.25K or 10K resistor.
		OFF	No monitored contact edge installed