

DSP Arm Controller Control Box **SETTINGS** Overview



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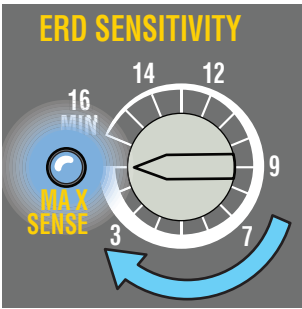
DIP-Switches

MODE B Switches	1	Open Relay Pulsed	OFF	Open Relay ON when gate open
			ON	Open Relay Pulsed when gate open
	2	Secondary Opposite Direction	OFF	Secondary moves same as primary
			ON	Secondary moves opposite of primary
	3	Lock on Close	OFF	Stop at close limit switch (see page 33)
			ON	Stop on overload condition after seeing close limit switch
MODE A Switches	4 & 5	Select Gate Length	5-OFF 4-OFF	Gate < 7 FT
			5-OFF 4-ON	7 FT < Gate < 10 ft
			5-ON 4-OFF	10 FT < Gate < 13 ft
			5-ON 4-ON	Gate > 13 FT
				Short Gate < 7 FT - shorter ramp down
				Long Gate > 10 FT - longer ramp down
MODE A Switches	6	Choose Actuator Type	OFF	MAX Strong arm
			ON	MAX Super arm
	1	Battery Beep Mode	OFF	No beeping when ONLY battery power and gate is in motion.
			ON	Beeping when ONLY battery power and gate is in motion.
	2	Gate in Motion Alert	OFF	No alarm while gate in motion
			ON	Alarm while gate in motion
MODE A Switches	3	Strobe Light Relay Control	ON	Tamper Relay NO/C Triggered while gate in motion for strobe light control.
	4	Quick-Close	OFF	No quick-close
			ON	Quick-close ON
	5	Close Tamper Detect	OFF	No Close Tamper Detect
			ON	Trigger Tamper Relay (alarm for slider only)
	6	Stop Input Polarity	OFF	Stop Input NO-connect to GND to activate
MODE A Switches			ON	Stop Input NC-disconnect from GND to activate
	7	Open Relay Polarity	OFF	Open Relay CLOSED when gate is open
			ON	Open relay OPEN when gate is open
	8	Unused		
	9	UL Closing Photo ON PHOTO CLS NC Anti-tailgate	OFF	UL Closing Photo anti-tailgate OFF
			ON	UL Closing Photo anti-tailgate ON
MODE A Switches	10	Reserved	OFF	MUST be OFF
			ON	DO NOT turn ON

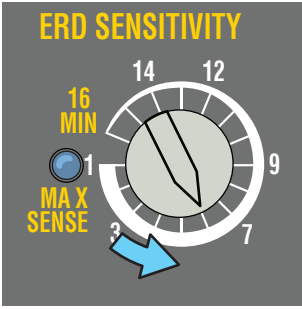
ERD Sensitivity Setting

IMPORTANT: Adjust the ERD to avoid injury as well as to minimize vehicle damage.

- 16 sensitivity setting positions for **EACH** direction.
- **NO** mechanical hard stops for knobs.

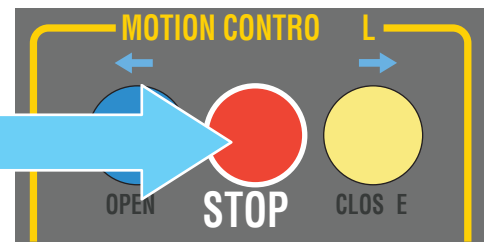


A. Turn knob until blue LED lights up. Maximum sensitivity reached, **Position 1** - Too sensitive for most gates.



B. Turn knob **counter-clockwise** to reduce gate sensitivity while testing ERD until desired results is attained. (LED remains OFF for all but position 1)

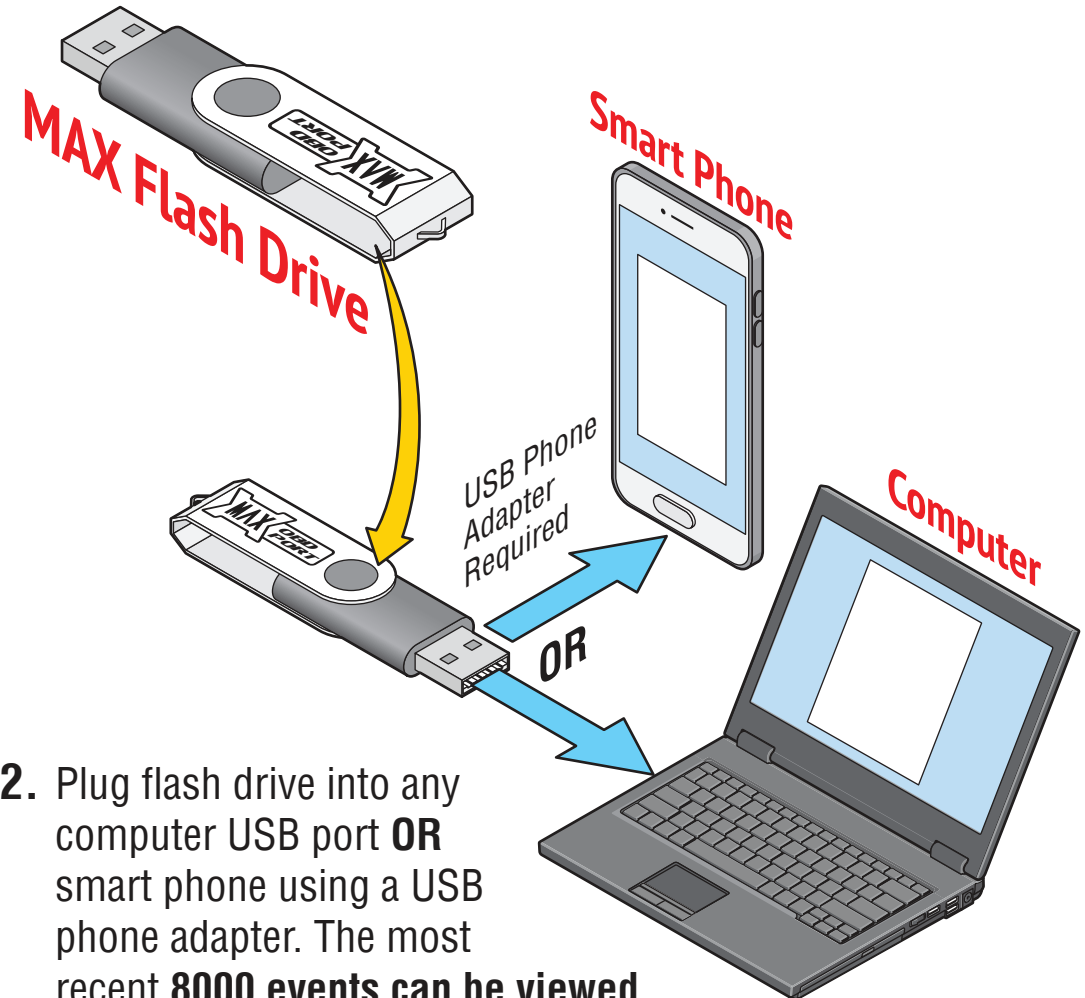
If alarm sounds while adjusting ERD, press **STOP** BUTTON to shut-off alarm.



NOTE: Cycle the gate 3 or 4 times to make sure that the ERD sensor does not **falsely trigger**.

ODB Port Black Box

1. Plug MAX USB flash drive into **ODB port** on circuit board. OBD LED will flash while file is downloading. Remove flash drive after LED stops flashing (up to 5 minutes to download).



2. Plug flash drive into any computer USB port **OR** smart phone using a USB phone adapter. The most recent **8000 events** can be viewed. No special software required.

Anti-Tailgate

Turned OFF - Close timer will close the gate at its selected time.

Turned ON - (In-ground loops required) Gate will close after all the in-ground loops have been cleared no matter how long the close timer is set for. When an in-ground **safety** loop gets activated during the close cycle, gate will **PAUSE** and **NOT** reopen. When loop is cleared, gate will continue to close preventing **UNAUTHORIZED** entry.

Solar Mode

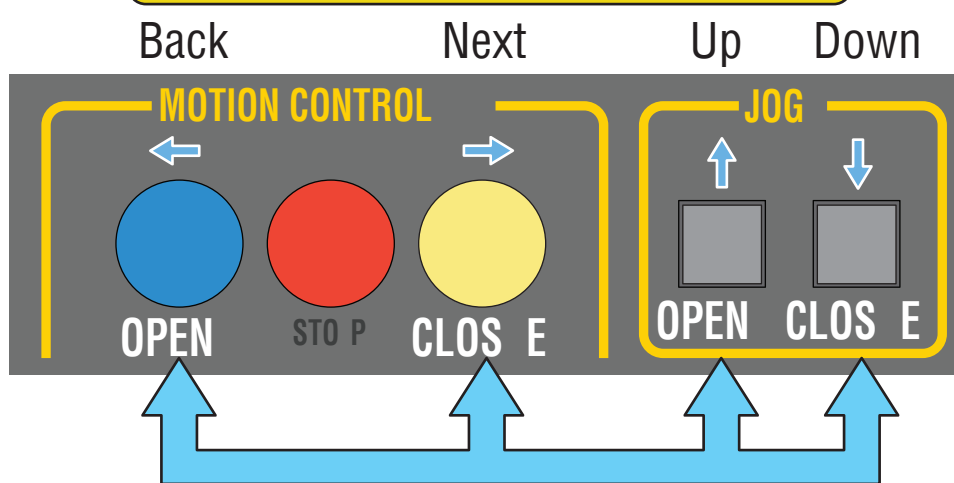
Turned OFF - AC input Power **ONLY**.

Turned ON - Solar panels **installed**. Unit draws min power to extend battery life.

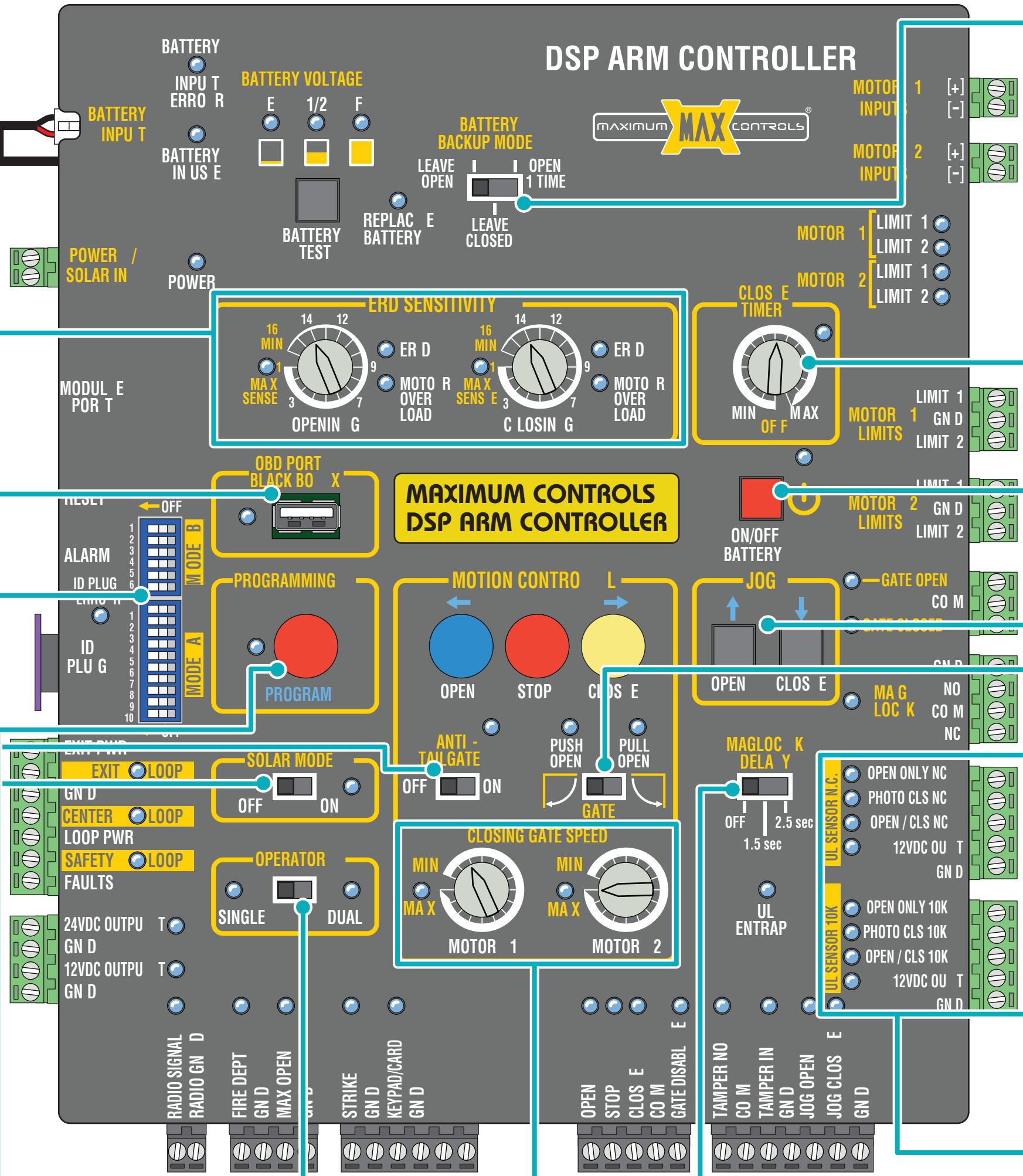
Program Button

Press **PROGRAM** and **STOP** buttons **together** to start programming. Follow instructions on screen using the 4 buttons shown below to program with. Press **ONLY PROGRAM** button again to end programming when finished. **"Date and Time"** **MUST** be programmed in along with other desired features.

PROGRAM INSTRUCTIONS ARE ON SCREEN



Programming Assistant Buttons



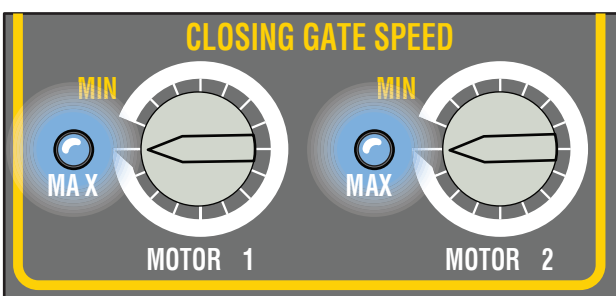
Operator Switch

SINGLE - Single operator installed (Motor 1).

DUAL - Dual operators installed (Motor 1 & Motor 2).

Closing Gate Speed

After gate positions have been **"Learned"**, the gate will cycle at the speed set on **"CLOSING GATE SPEED"** settings.



Typically set to MAX, LEDs ON.

Maglock Delay

Turned OFF - NO Maglock installed.

Set to 1.5 sec or 2.5 sec - You **MUST** select a time delay when using a maglock. Maglock power disengages 1.5 sec or 2.5 sec **before** gate starts opening.

Dual Gate Operators using Maglock: Primary gate opens **FIRST**. Install maglock accordingly to account for this.

MAGLOCK LED (Monitors Maglock):

ON - Locked
OFF - Unlocked
Flashing - Problem with Maglock Power.

UL 325 2018 Standard

Minimum of **ONE** Entrapment protection sensor **MUST** be installed or operator will **NOT** function.
It **MUST** be **MONITORED** and **NORMALLY CLOSED (N.C.)/10K**.
All entrapment zones should be protected by **MONITORED** sensors.

Battery Back-Up Mode

LEAVE OPEN - After a power failure, gate will continue to operate until battery power is drained. At this point, the next open command, gate will remain **OPEN**. Gate will **automatically** close after AC power is restored if close timer is ON.

LEAVE CLOSED - After a power failure, gate will continue to operate until battery power is drained. At this point, gate will remain **CLOSED**.

OPEN 1 TIME - After a power failure, gate **automatically OPENS** and **REMAINS OPEN**. When power is restored, gate will **automatically** close.

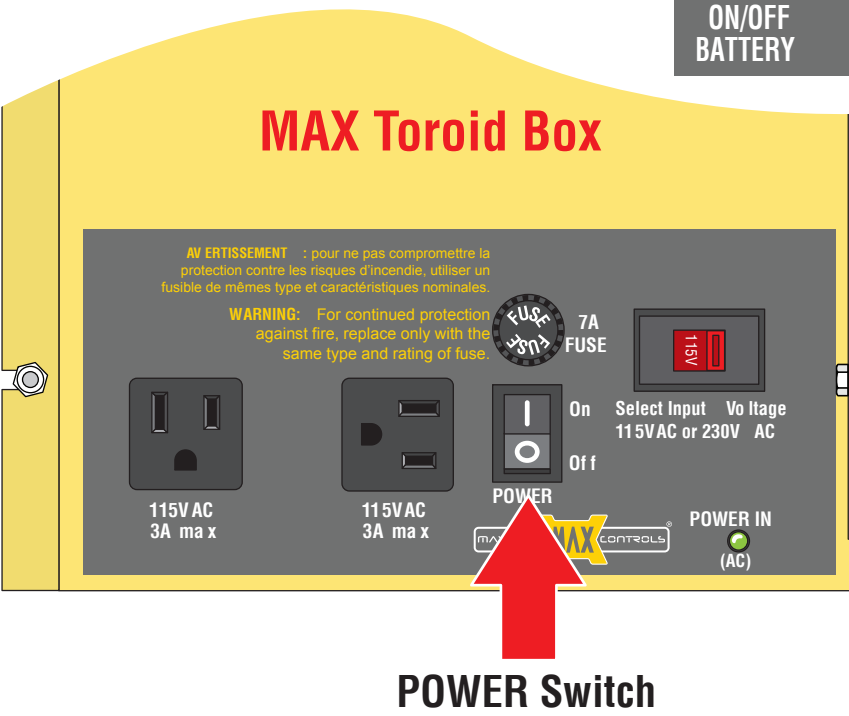
Close Timer

1st click clockwise - Knob at **MIN**: 1/2 sec...
2nd click clockwise: 1 sec...
3rd click: 4 sec...
4th click: 8 sec... etc up to 60 sec. MAX.
LED turns ON for MAX setting ONLY

Turn off ALL Power

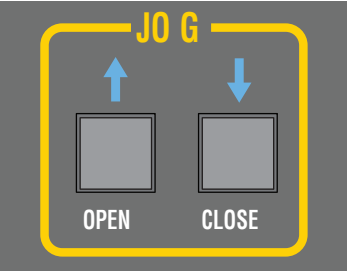
IMPORTANT: This procedure must be followed whenever **ALL** power must be turned OFF on operator.

1. Turn OFF **POWER Switch** on MAX Toroid Box. Battery power will **remain ON**.
2. Press and **HOLD** the **RED ON/OFF BATTERY** button until beep is heard, then release button.

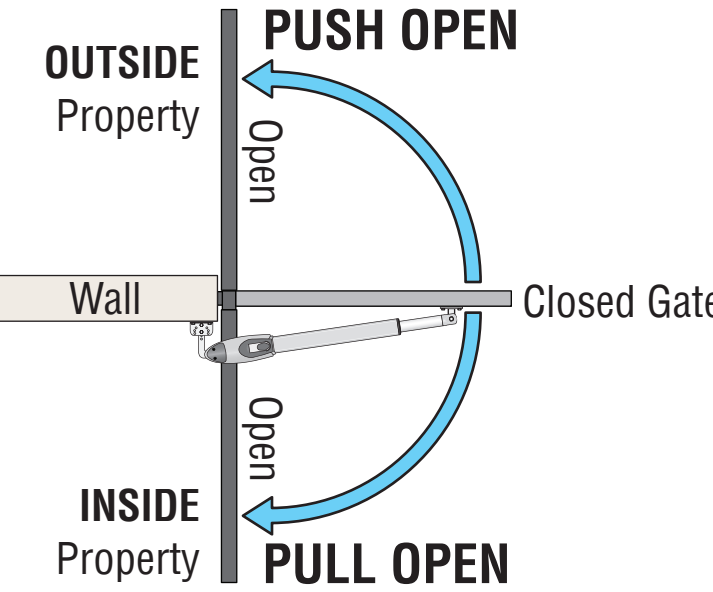


Jog Buttons

Push and **HOLD** to **Open** or **Close** (release button to stop gate). Helps when "Fine tuning" gate limit positions.



Gate Opening Direction



MONITORED UL sensors Input

A sensor wired to the **PHOTO CLS NC** will **"AUTOMATICALLY be MONITORED"** (**Factory default**). All other inputs **MUST** be learned before they will be monitored.

Sensor Learn Mode:

1. Press and **HOLD** the **STOP** button & then the **OPEN** button together until beeping is heard, learn mode begins. **DO NOT** press the **OPEN** button before the **STOP** button or learn mode will **NOT** begin (no beeping).

2. LEDs **WILL** turn **ON** for each detected **"LEARNED"** sensor that has been wired to the inputs. If a sensor's LED is **NOT** on, that sensor has a problem and it **MUST** be corrected before continuing.

Possible problems:

- Photocells are out of alignment
- Photocells are wired wrong - N.C. or N.O. depending on which photocells are used.
- Sensor is bad

When all LEDs are **ON** that should be **ON**, proceed to next step.

3. Press **STOP** button again within 5 min. to learn sensors and end learn mode, beeping stops. **Wired "Learned" Inputs will now be MONITORED.**

NOTE: If **STOP** button is not pressed within 5 min., learn mode terminates. If no **"LEARNED"** sensors are detected then factory default setting is restored (Inputs will **NOT** be Monitored).

