

Quick Install Guide for

**MAX 1700FS**

Fail Safe Slide Gate Operator

CONFORMS TO UL STD 325  
UL CLASS - I, II, III, IV

CERTIFIED TO CAN/CSA STD  
C22.2 NO. 247

**SAFETY SENSORS REQUIRED**



**Residential/Commercial  
Brushless DC Slide Gate Operator**

Made in USA



Intertek  
4009963



Version 3

[www.max.us.com](http://www.max.us.com)

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# MAX 1700FS SPECIFICATIONS

**UL 325 Class of Operation** - Class I, II, III, IV

**Gate Type** - Vehicular Slide Gate

**Max Gate Length** - 50 ft

**Max Gate Weight:**

1700 lbs Level Gate; Not recommended for Inclined Gate

**Opening Time** - Selectable speed control (MAX - 12 inch per second)

**Cycles per Hour AC Power** - Continuous

**Battery Back-Up Cycles** (Batteries fully charged) - Approximately 100 cycles

**NOTE:** The number of gate cycles using **ONLY** battery back-up power will vary depending on the weight of the gate, the gate length, the operating condition of the gate, temperature and the amount of charge the batteries have at the beginning of the battery power only operation.

**Input AC Power/Amps** - Switchable: 115VAC / 6 Amp, 1 phase  
or 230VAC / 2 Amp, 1 phase

**Motor:**

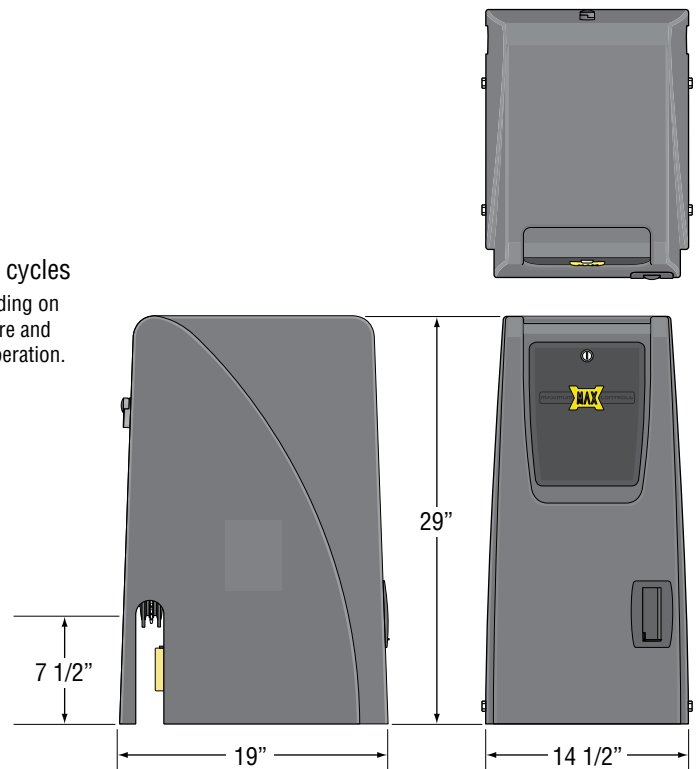
1 HP 24VDC Brushless (6 million cycles)

**Chain Size** - #40

**Operating Temperature:** -4°F to 158°F (-20°C to 70°C)

**Entrapment Protection:**

- UL 325 Type A Inherent (ERD sensor)
- Inputs for **NORMALLY CLOSED (N.C.)**  
UL 325 Type B1 (photo cell)  
and Type B2 (sensing edge)



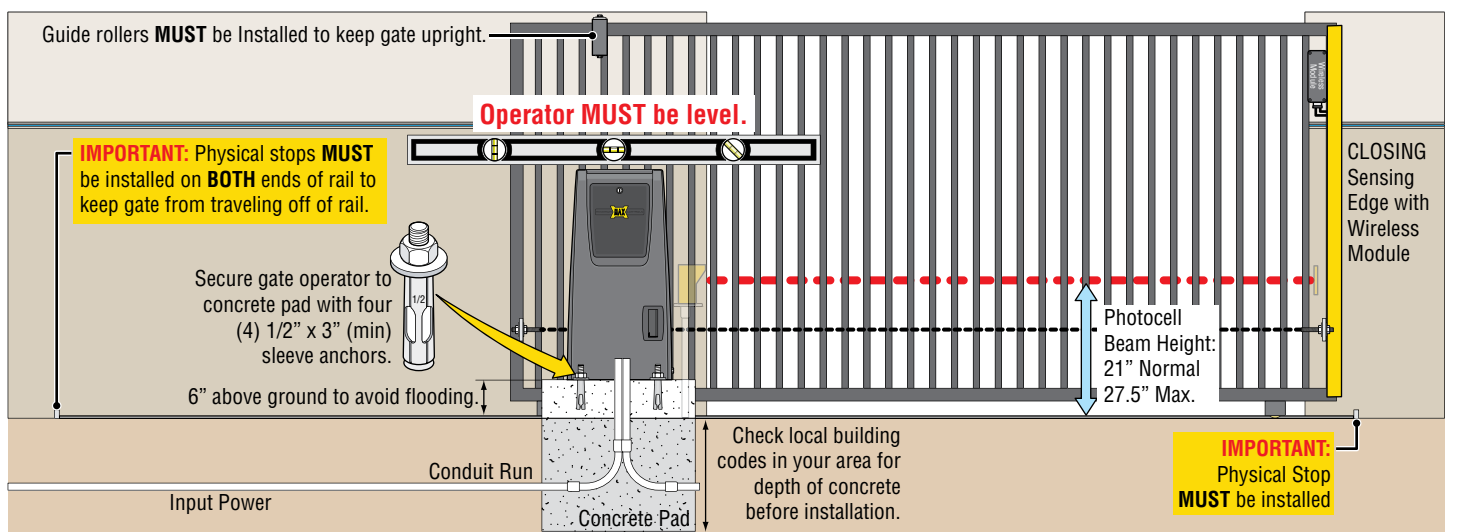
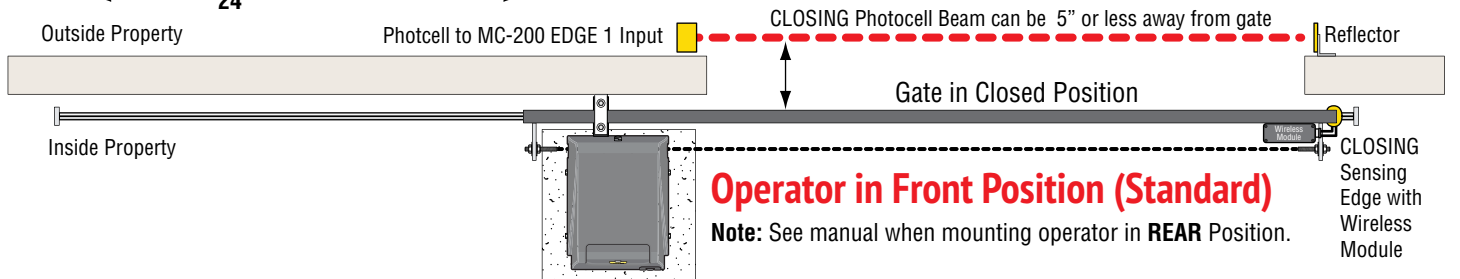
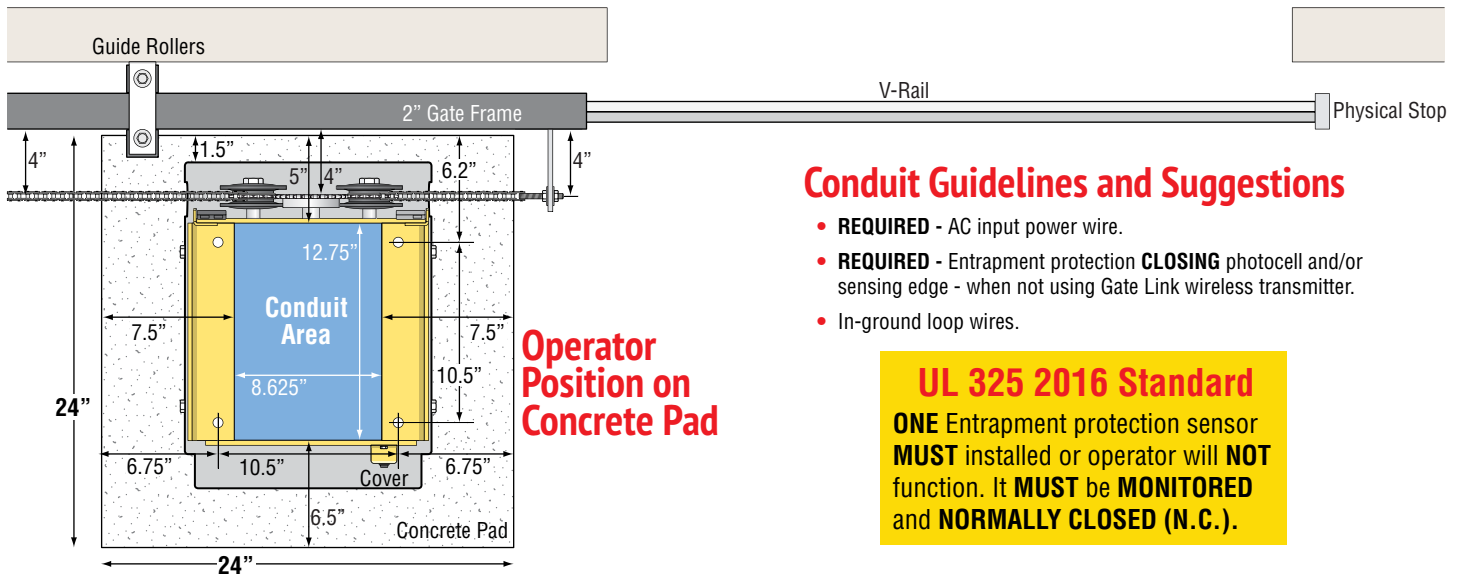
# Quick Install Guide for MAX 1700FS Slider



The MAX 1700FS is a Fail Safe slide gate operator. The gate can be pushed open manually when the **MANUAL RELEASE** switch is turned ON. See page 10 for more information about this feature.

## 1 OPERATOR PLACEMENT (STANDARD)

The gate must be properly installed and work freely in both directions prior to installation of the gate operator.



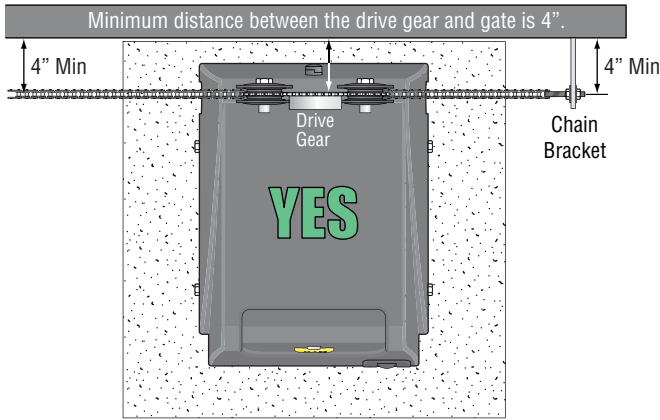
**Concrete Depth Note:** The heavier the gate, the deeper the concrete pad should be. At least **two feet** recommended for heavier gate.

# 2

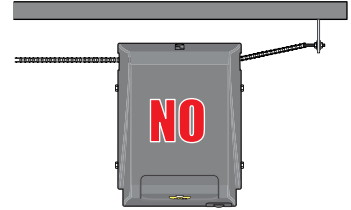
## CONNECT CHAIN TO GATE

### Top View of Operator

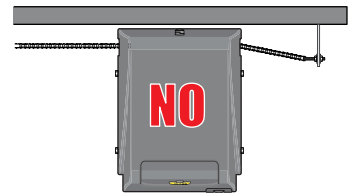
**NOTE:** 25 ft of #40 nickel plated chain included.



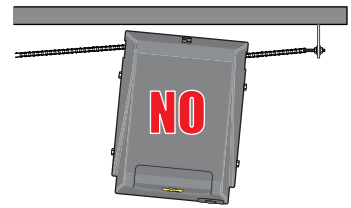
**IMPORTANT:** Physical stops **MUST** be installed on **BOTH** ends of gate rail to keep gate from traveling off of rail.



Operator is too far from gate.  
Chain is NOT parallel to gate.

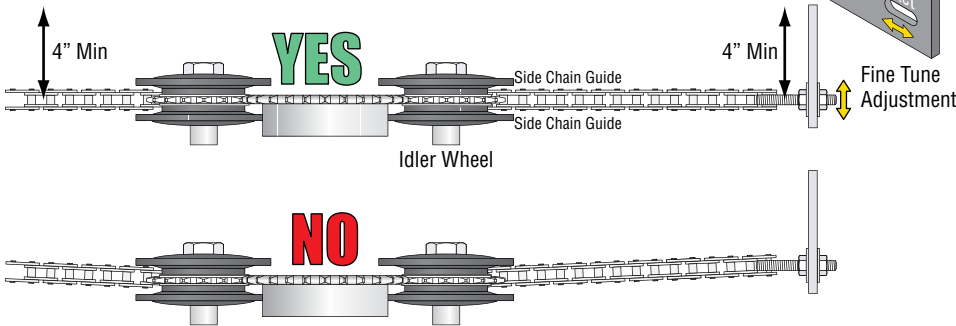


Operator is too close to gate.  
Chain is NOT parallel to gate.

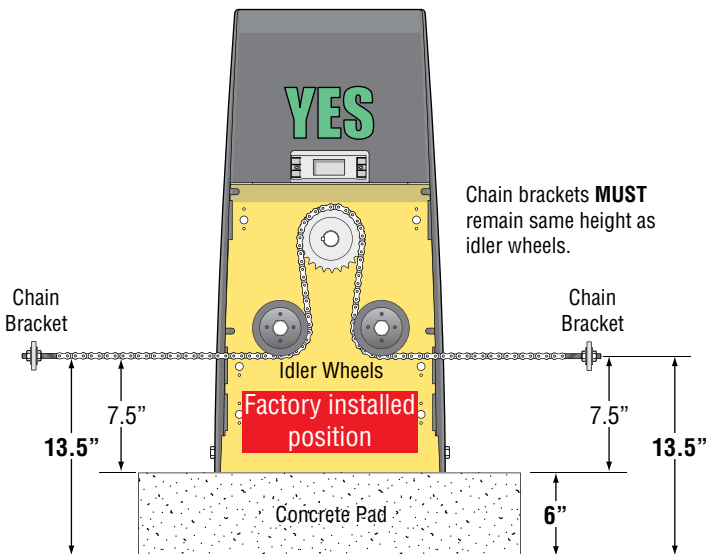


Operator is NOT parallel to gate.  
Chain is NOT parallel to gate.

**IMPORTANT:** Operator and chain **MUST** be parallel to gate or the idler wheels could fail. Use the "Fine Tune" adjustment on the gate bracket connection bolt and make sure the chain runs through the idler wheels **without binding** on the side chain guides.

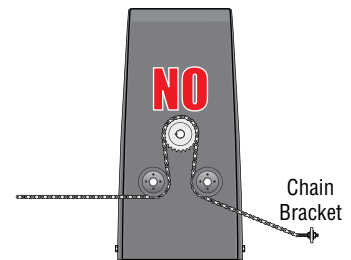


### Back View of Operator

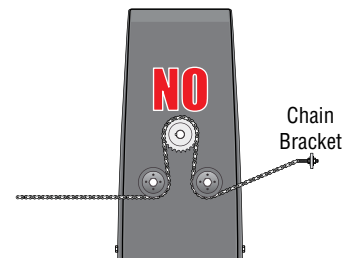


Chain brackets **MUST** remain same height as idler wheels.

**NOTE:** The chain should sag no more than one (1) inch per 10 feet of travel. **Do not over tighten the chain.**



DO NOT mount chain bracket too low on gate.



DO NOT mount chain bracket too high on gate.

### Operator in Front Position (Standard)

**Note:** See manual when Connecting chain with operator mounted in **REAR** Position.

# 3 AC INPUT POWER

Choose either 115V or 230V setting on input AC power selector switch.

Wire desired input AC power wire to power terminal. A additional single gang box is provided to install power outlets if desired. GFCI outlet type is recommended.

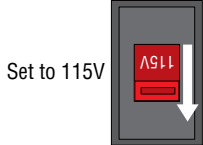
**CAUTION:** Make sure circuit breaker is OFF from incoming AC input wire BEFORE wiring!

## Input AC Power Options

**CAUTION:** If input AC power selector switch is set for 115V but input power is actually 230 V, 7 Amp Fuse will blow.

Single Phase 115VAC Only

**115VAC**



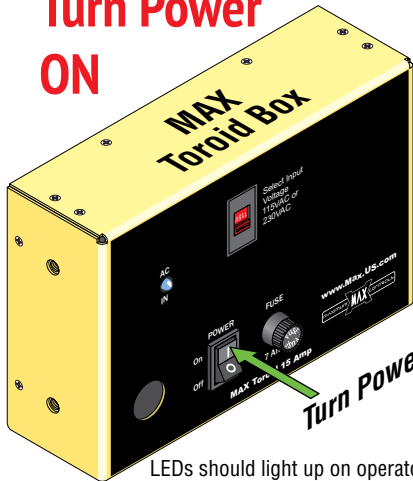
115 OR 230VAC Power Wire

Single Phase 230VAC Only

**230VAC**

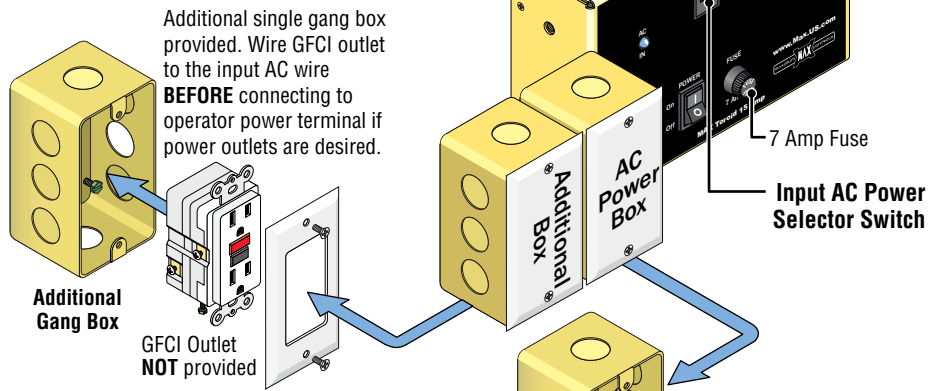


**Turn Power ON**

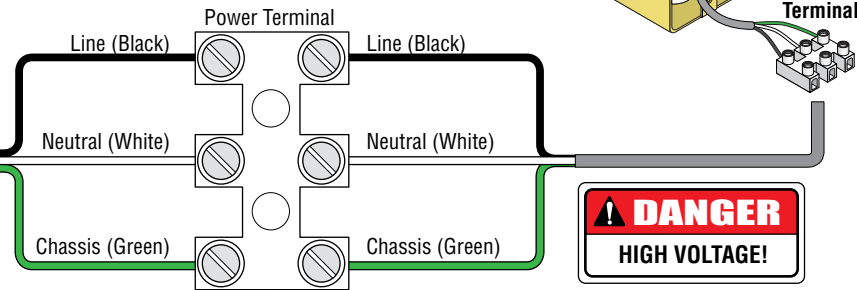


LEDs should light up on operator. Battery power automatically turns ON.

**DO NOT CYCLE OPERATOR!**



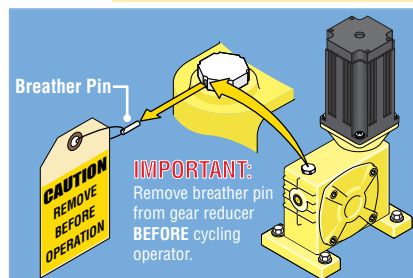
**IMPORTANT:** Make sure there are NO exposed bare wires at the power terminal connection.



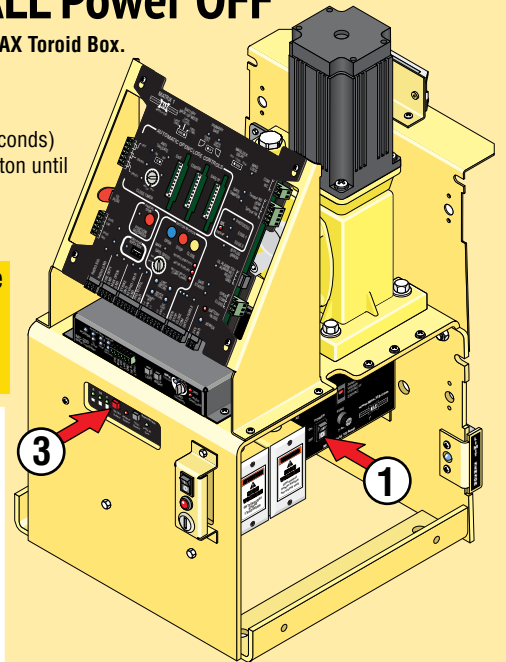
## Turn ALL Power OFF

- 1 Turn OFF POWER Switch on MAX Toroid Box. Battery power will remain ON.
- 2 WAIT for 15 seconds.
- 3 Press and HOLD (approx. 5 seconds) the RED ON/OFF BATTERY button until MAX BC-7 LEDs turn ON, then release button. LEDs will turn OFF. (Up to 30 sec.)

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



**IMPORTANT:** Remove breather pin from gear reducer BEFORE cycling operator.



# 4 GROUND OPERATOR

## Operator MUST be Properly GROUNDED

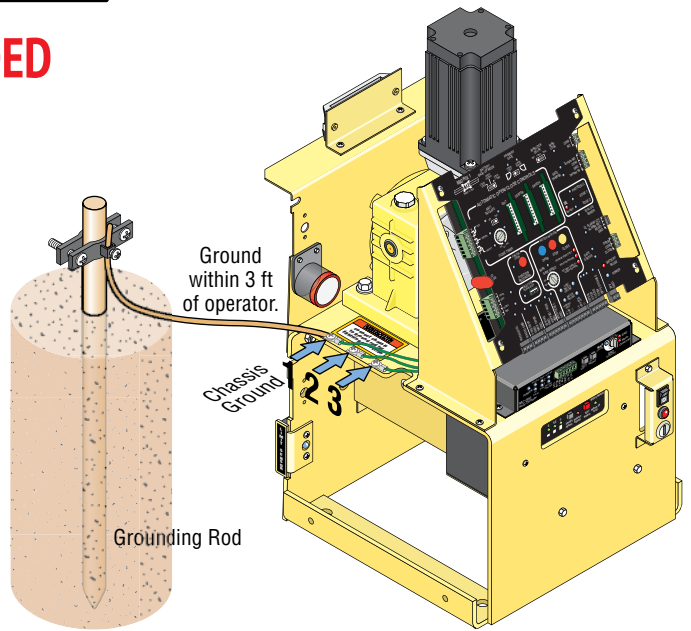
**IMPORTANT:** Operator MUST be grounded in lightning prone areas or warranty will be **VOIDED!**

**WARNING**

**connect chassis to ground rod for lightning protection**

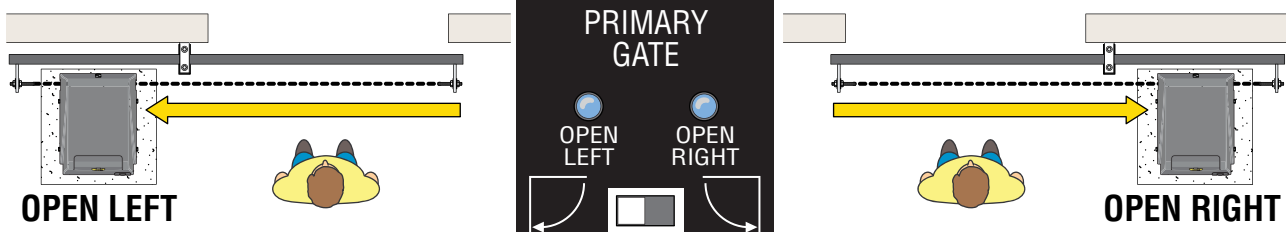
Proper grounding of this gate operator is a requirement for **LIGHTNING PROTECTION** in lightning prone areas. To be effective, ground connections should be made with a **minimum 12 AWG, 600 volt** insulated wire to a ground point within **3 feet** of the gate operator. The ground point must be at an **electrical panel**, a **metallic cold water pipe** that runs in the earth, or a **grounding rod**.

**NOTE:** Consult city codes for AC line wiring. Beware of existing underground services.

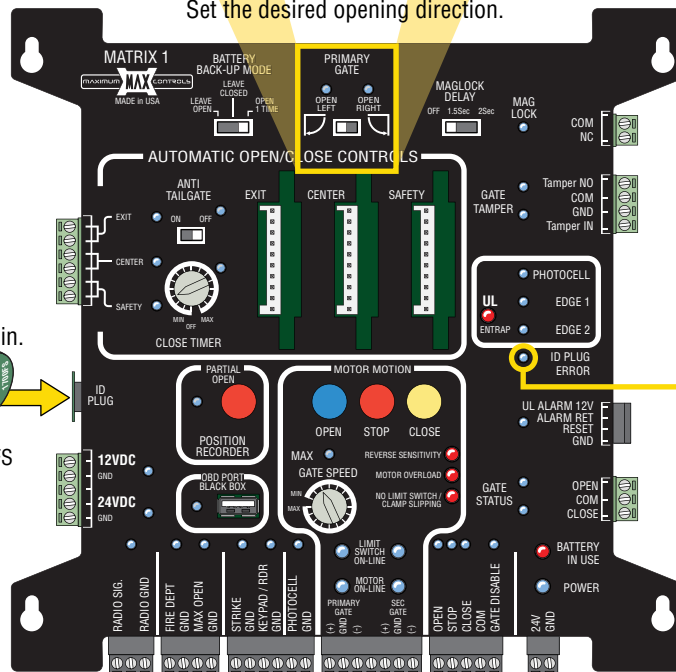


Any of the **THREE** Chassis Grounds can be used. They are located next to the gear reducer. **DO NOT** remove any existing green ground wires.

# 5 SET OPENING DIRECTION AND ID PLUG



Set the desired opening direction.



**Dual Gate Operators NOTE:** Secondary operator will **automatically** be set to the opposite opening direction as the primary gate operator.

**ID Plug Error:** If ID plug is **NOT** plugged in, board will constantly beep and operator will **NOT** function.

**NOTE:** See manual for more information about Matrix 1 settings.



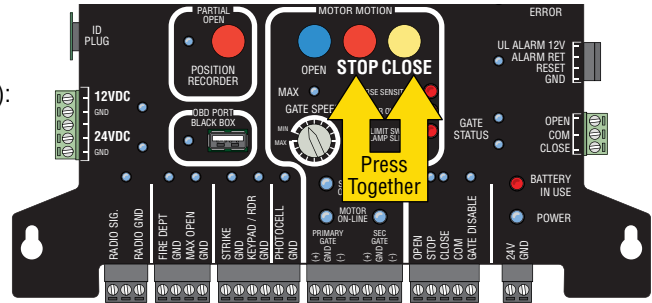
Gate operator **OPEN** and **CLOSE** buttons are disabled until virtual limits have been programmed.

If **OPEN** or **CLOSE** buttons are pressed and programming has not been done, Operator will beep and nothing will happen.

## 1. Erase Current Virtual Limits

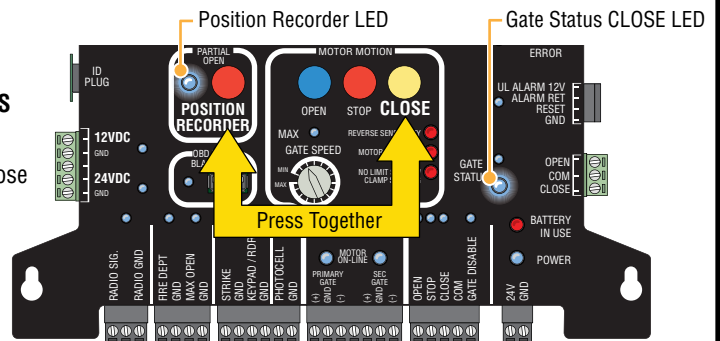
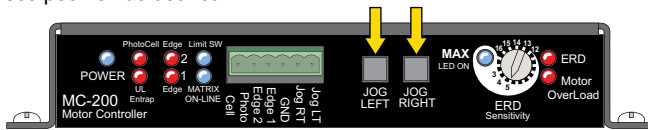
**PRECAUTION** to ensure removal of previous limit settings (**NO** factory setting):

- Press and hold the **STOP** button while simultaneously pressing the **CLOSE** button.
- Hold **BOTH** buttons down until a beep is heard (approx. 5 sec).
- Release buttons. Both virtual **OPEN** and **CLOSE** limits have been erased.



## 2. Program Virtual CLOSE Limit

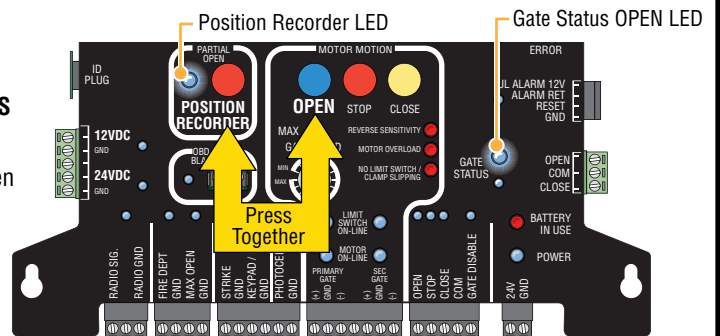
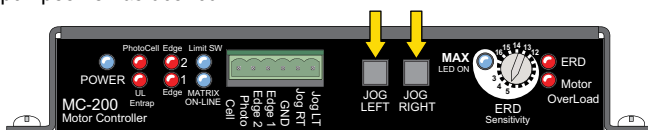
- Press and hold the **POSITION RECORDER** button while simultaneously pressing the **CLOSE** button.
- Hold **BOTH** buttons down until **POSITION RECORDER LED** and **GATE STATUS CLOSE LED** start flashing and beeping begins.
- While beeping, press **CLOSE** button again to move the gate to the general close position. Use the jog switches on the MC-200 to adjust gate to the final gate close position as desired.



- After the final close position is chosen, press the **POSITION RECORDER** button again to record the current gate position as the virtual **CLOSE** limit. The **POSITION RECORDER LED** will turn **OFF**, the **GATE STATUS CLOSE LED** will turn **ON** and stay on and the beeping will stop. Virtual **CLOSE** limit is programmed.

## 3. Program Virtual OPEN Limit

- Press and hold the **POSITION RECORDER** button while simultaneously pressing the **OPEN** button.
- Hold **BOTH** buttons down until **POSITION RECORDER LED** and **GATE STATUS OPEN LED** start flashing and beeping begins.
- While beeping, press **OPEN** button again to move the gate to the general open position. Use the jog switches on the MC-200 to adjust gate to the final gate open position as desired.



- After the final open position is chosen, press the **POSITION RECORDER** button again to record the current gate position as the virtual **OPEN** limit. The **POSITION RECORDER LED** will turn **OFF**, the **GATE STATUS OPEN LED** will turn **ON** and stay on and the beeping will stop. Virtual **OPEN** limit is programmed. Push **CLOSE** button and the operator will function normally.

# 7 ENTRAPMENT PROTECTION WIRING

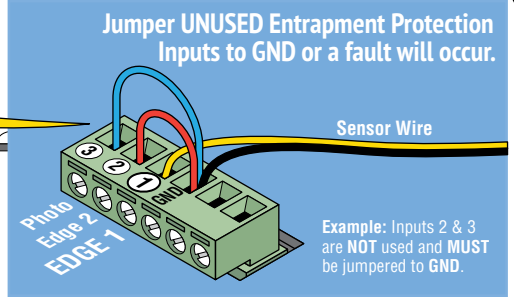
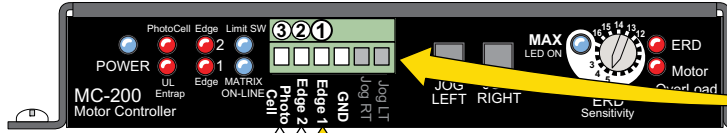


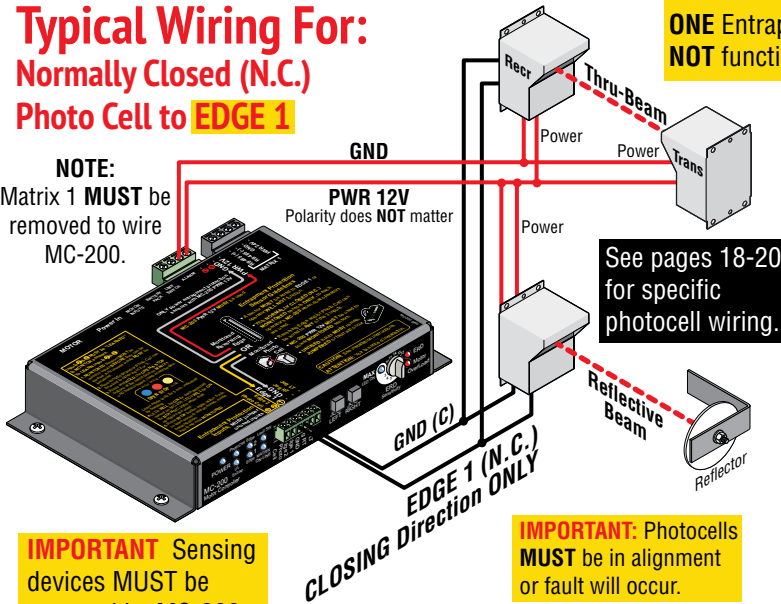
Photo Cell: LEARNED MONITORED OPEN/CLOSE  
 Edge 2: LEARNED MONITORED OPEN/CLOSE  
**EDGE 1: MONITORED CLOSE ONLY**

**NOTE:** See manual for more information about learned monitored inputs.

Example: Inputs 2 & 3 are NOT used and MUST be jumpered to GND.

## Typical Wiring For: Normally Closed (N.C.) Photo Cell to EDGE 1

**NOTE:** Matrix 1 MUST be removed to wire MC-200.



**IMPORTANT:** Sensing devices MUST be powered by MC-200 or they will NOT be MONITORED.

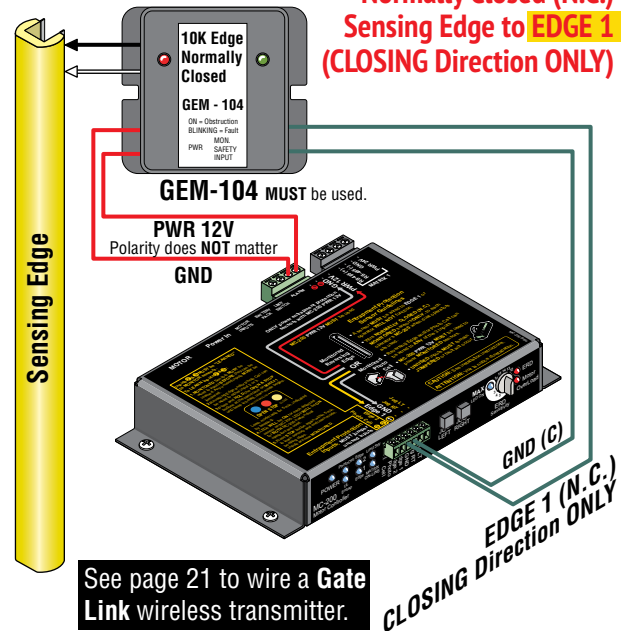
**IMPORTANT:** Photocells MUST be in alignment or fault will occur.

**NOTE:** See manual for more information about photocell and sensing edges installation and wiring.

## UL 325 2016 Standard

**ONE** Entrapment protection sensor **MUST** be installed or operator will **NOT** function. It **MUST** be **MONITORED** and **NORMALLY CLOSED (N.C.)**.

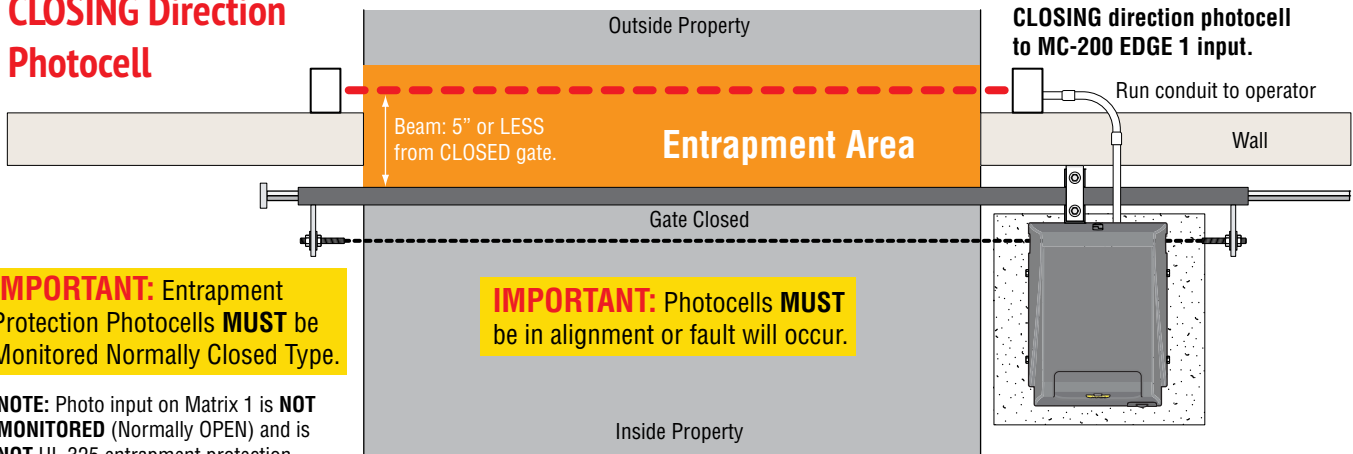
## Typical HARDWiring For: Normally Closed (N.C.) Sensing Edge to EDGE 1 (CLOSING Direction ONLY)



**See page 21 to wire a Gate Link wireless transmitter.**

## Entrapment Protection Device Locations:

### CLOSING Direction Photocell



**IMPORTANT:** Entrapment Protection Photocells **MUST** be Monitored Normally Closed Type.

**IMPORTANT:** Photocells **MUST** be in alignment or fault will occur.

**NOTE:** Photo input on Matrix 1 is **NOT MONITORED** (Normally OPEN) and is **NOT UL 325** entrapment protection.

Continued on next page.





# 8

## ADJUST ERD REVERSE SENSOR

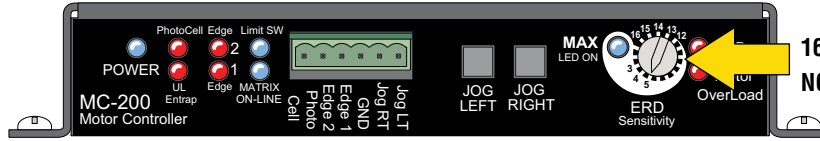
The ERD Sensor - Electronic Reversing Device (Type A) **MUST** be adjusted for the **OPEN and CLOSE gate cycles**.

When the gate encounters an obstruction during the **CLOSE** cycle, it will reverse to the open position and **PAUSE** the gate. An input command (press remote button or exit loop) is needed **BEFORE** the gate will reset and close again.

When the gate encounters an obstruction during the **OPEN** cycle, it will reverse approximately 6 inches and **PAUSE** the gate. An input command (press remote button or exit loop) is needed **BEFORE** the gate will reset and open again.

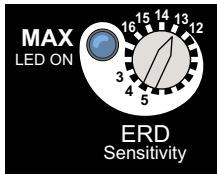
For the **ERD Sensitivity** to function correctly:

- Virtual limit sensors must be programmed **BEFORE** adjusting the ERD Sensitivity.

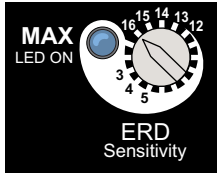


**16 sensitivity setting positions.**  
**NO mechanical hard stop for knob.**

### Typical Settings:



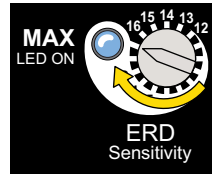
**Position 13:**  
• Typical gate setting.



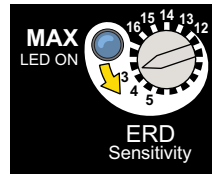
**Position 16:**  
• Heavy gate setting.  
• Long gate setting.  
• Cantilever gate setting.  
• High wind area gate setting.

**IMPORTANT:** When satisfied with ERD adjustment, cycle the gate 3 or 4 times to make sure that the ERD sensor does not **falsely trigger** during normal gate operation. Re-adjust if this happens.

### Adjusting ERD:



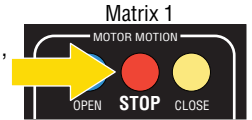
**A.** Turn knob until blue LED lights up. Maximum sensitivity reached, **Position 1** - Too sensitive for most gates.



**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)

**CAUTION:** Position 16 results in gate exerting **MAXIMUM force** before reversing direction.

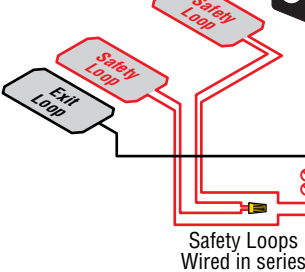
If alarm sounds while adjusting ERD, press **STOP BUTTON** on Matrix 1 to shut-off alarm.



# 9

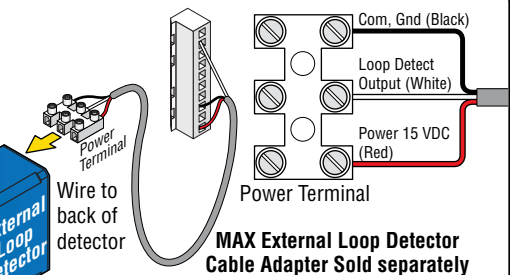
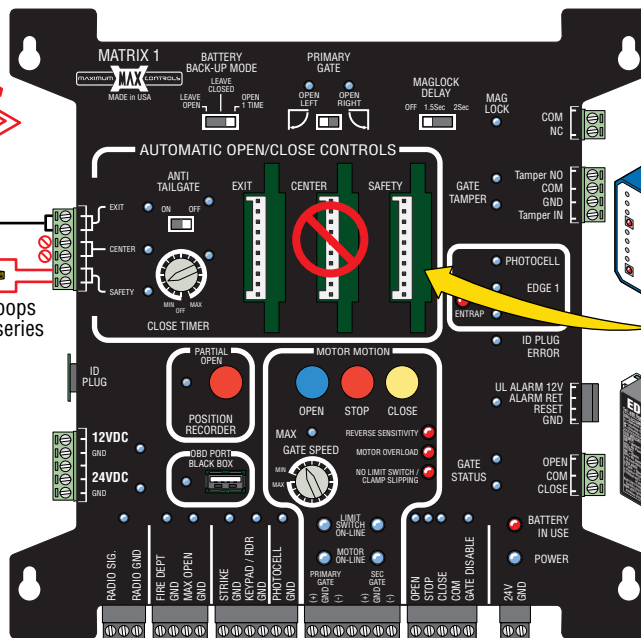
## LOOPS & LOOP DETECTORS

### In-Ground Loops Connections



Safety Loops Wired in series

**NOTE:** See manual for more information about loops and loop detectors.



### External Loop Detectors

**NOTE: DO NOT** select the **PULSED** output option for Loop Detectors.

**NOTE: DO NOT** set Loop Detectors to **HIGH** sensitivity to avoid false trigger.

### Plug-In Loop Detectors

# 10 MATRIX 1 SETTINGS

## Battery Back-Up Mode

**LEAVE OPEN** - After a power failure and battery power is drained, the next open command, gate will remain **OPEN**. Gate will **automatically** close after AC power is restored if timer is ON.

**LEAVE CLOSED** - After a power failure and battery power is drained, gate will remain **CLOSED**. See manual for more information about opening a **CLOSED** gate during a power failure (emergency open device, manual open, etc).

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

## Anti Tailgate

**Set to OFF**

See manual before enabling this feature.

## Close Timer

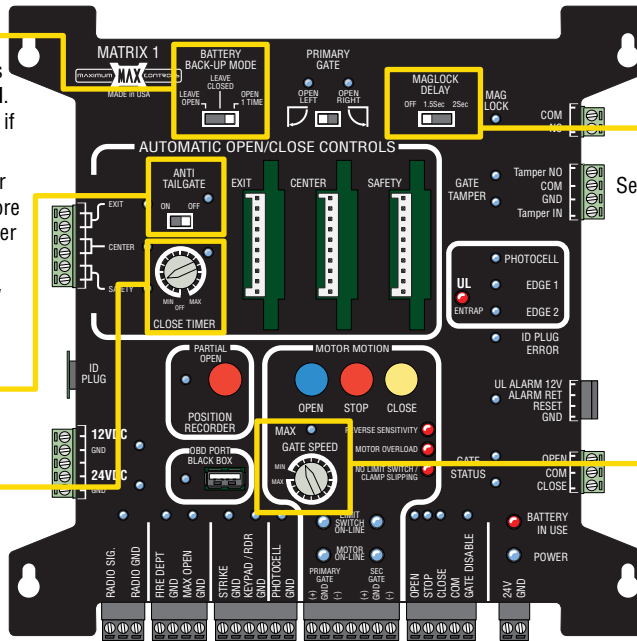
**1st click clockwise** - Knob at **MIN** position: 1/2 sec...

**2nd click clockwise**: 1 sec...

**3rd click**: 4 sec...

**4th click**: 8 sec... etc up to 60 sec. **MAX**.

See manual for more info.



## Maglock Delay

**Set to OFF**

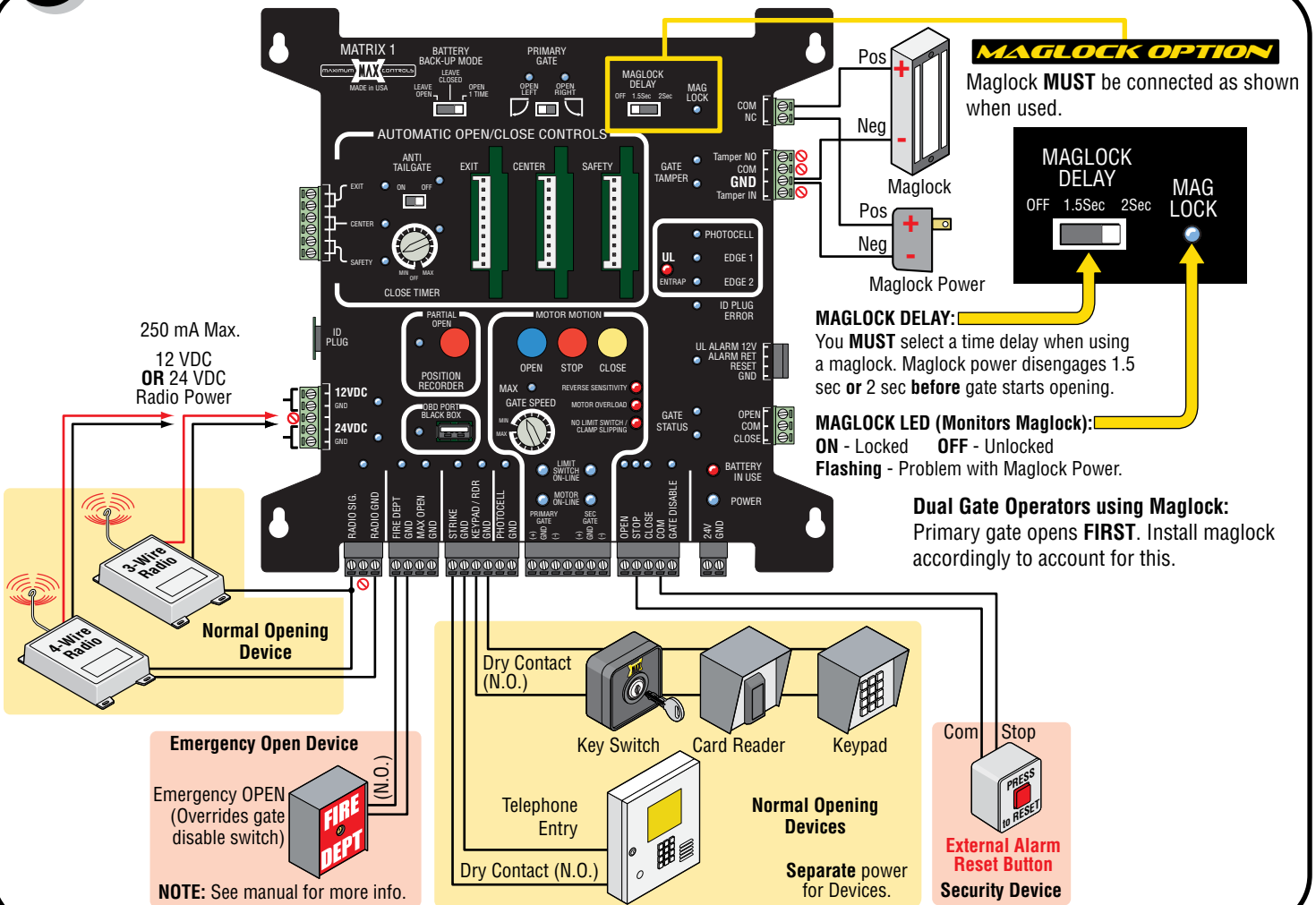
See manual before enabling this feature.

## Gate Speed

**Set to MAX**

See manual for more info.

# 11 WIRING OPENING DEVICE OPTIONS



## MAGLOCK OPTION

Maglock **MUST** be connected as shown when used.

### MAGLOCK DELAY:

You **MUST** select a time delay when using a maglock. Maglock power disengages 1.5 sec or 2 sec **before** gate starts opening.

### MAGLOCK LED (Monitors Maglock):

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

### Dual Gate Operators using Maglock:

Primary gate opens **FIRST**. Install maglock accordingly to account for this.

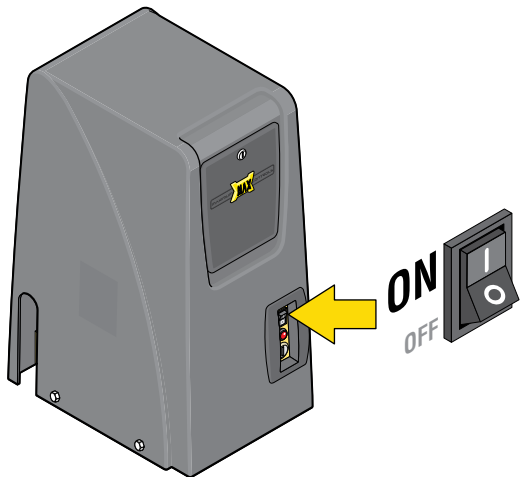
**Emergency Open Device**  
Emergency OPEN (Overrides gate disable switch)  
**NOTE:** See manual for more info.

**Normal Opening Devices**  
Separate power for Devices.

**External Alarm Reset Button Security Device**

## Local Keyed Manual Disconnect

The dynamic braking system is released for **15 minutes** when switch is turned **ON** and gate can be **manually pushed open**. After 15 minutes, the gate operator returns to normal operation. Turn this switch **OFF** after gate has been moved.

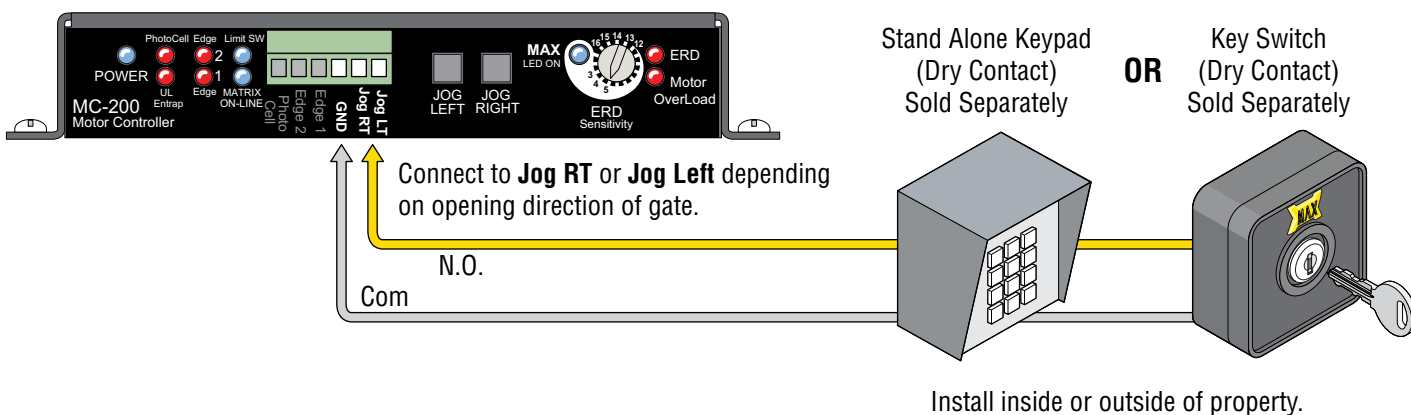


**SAFETY FEATURE:** If switch is **NOT** turned **ON**, the dynamic braking system, in closed position, will fight back if unauthorized manual opening is attempted.

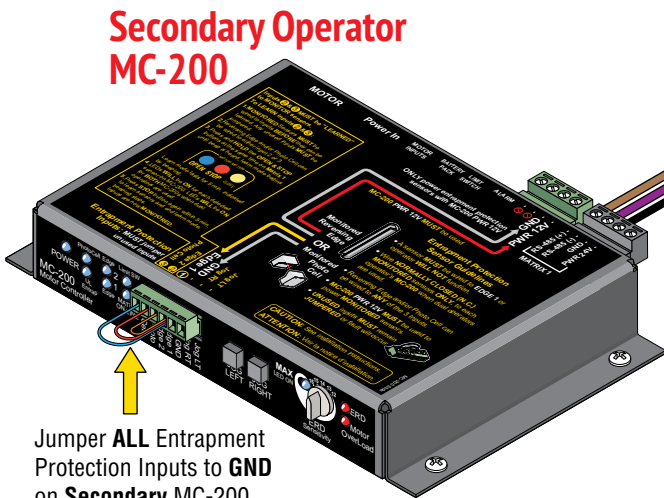
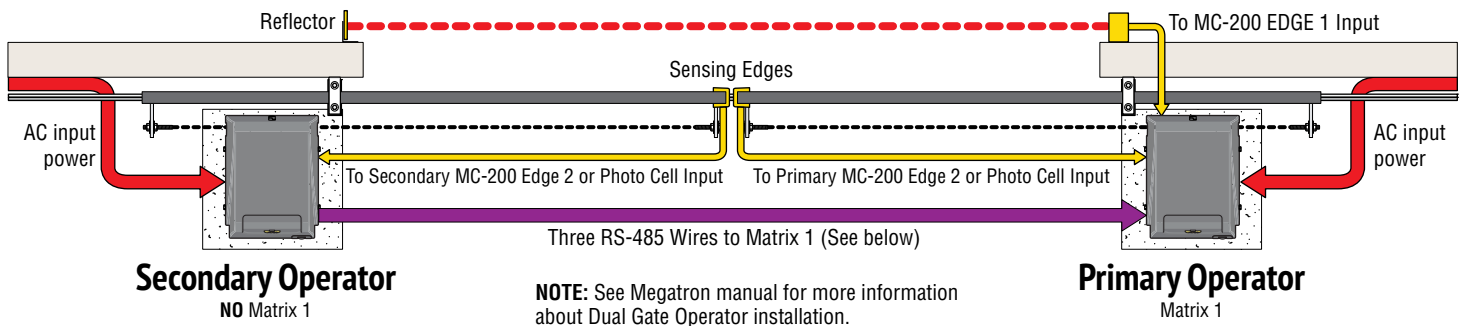
**Note:** If switch is **NOT** turned **OFF** after 15 minutes, gate operator returns to normal operation and will not allow gate to be pushed open again. To re-activate the switch when left **ON** after **15 minutes**, turn switch **OFF** then back **ON** again. Gate can be manually pushed open again.

## “OPTIONAL” Electronic Gate Open

Allows the gate to be electronically opened by the operator. Gate will fully open when activated by key switch or any dry contact command.



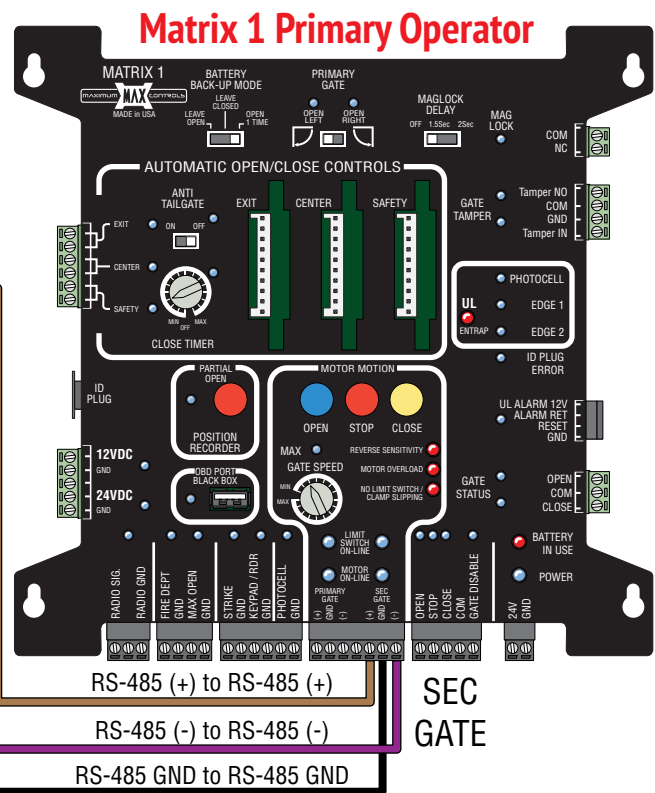
# DUAL GATE OPERATORS WIRING



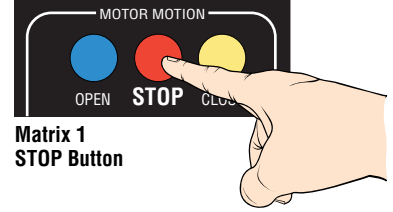
Jumper **ALL** Entrapment Protection Inputs to **GND** on **Secondary MC-200** when **ONLY** using **CLOSE** photocell.

- AC input power to **EACH** gate operator.
- Entrapment protection (**CLOSE** photocell) to **PRIMARY GATE OPERATOR MC-200**.
  - Jumper any **UNUSED** entrapment protection inputs to GND on **BOTH** MC-200s or a fault will occur.
  - See manual if installing more entrapment protection devices than just a **CLOSE** photocell.
- Opening device to the **PRIMARY GATE OPERATOR**.
- Matrix 1 **Open Left - Open Right** set for the **PRIMARY GATE OPERATOR** opening direction. (Secondary operator automatically set to opposite opening direction)
- **OPTIONAL** - In-ground loop wires to the **PRIMARY GATE OPERATOR**.

**NOTE:** The Alarm Shut-Off is located on the **Primary** gate operator **ONLY**. There is **NO** alarm shut-off button on the secondary gate operator.



## Alarm Shut-Off

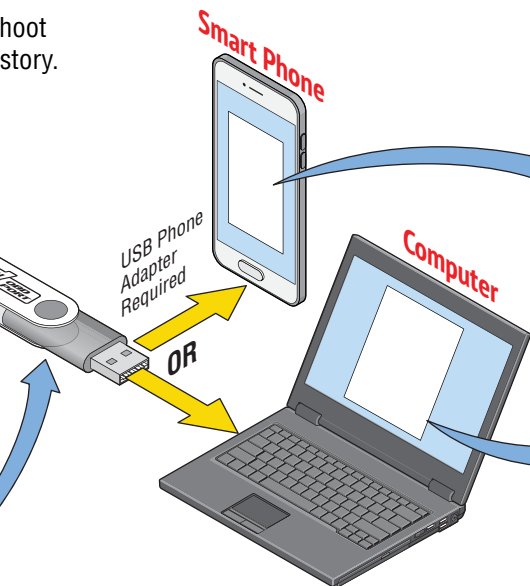
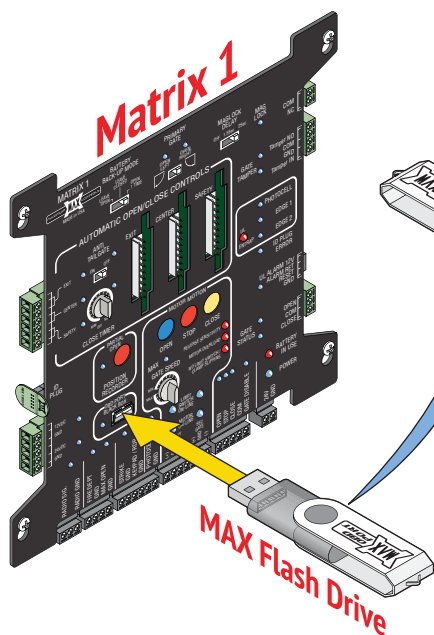


# Troubleshooting

This page and the next 5 pages can help troubleshoot problems that might occur after installation is complete.

## USB BLACK BOX PORT

Download a simple .txt file to troubleshoot gate operator errors and view event history.



### Event History Text Document Sample

Event type clarification:  
**INFO:** informational message only  
**WARNING:** unusual event but doesn't cause system malfunction  
**ERROR:** abnormal event, could cause system malfunction  
**ENTRAP:** entrapment detection event

Event Report:

Fri 07/11/2014 10:59:41	INFO : Cycle Counter
Fri 07/11/2014 10:59:41	<b>ENTRAP : SEC_MC: First ERD Detected</b>
Fri 07/11/2014 10:59:37	INFO : Radio Input Deactivated
Fri 07/11/2014 10:59:36	INFO : Radio Input Activated
Fri 07/11/2014 10:58:54	INFO : PRI_MC: Fully Open Position Learned
Fri 07/11/2014 10:58:53	INFO : SEC_MC: Fully Open Position Learned
Fri 07/11/2014 10:57:40	INFO : PRI_CIO: Communication Established
Fri 07/11/2014 10:57:38	<b>ENTRAP : PRI_MC: Photo Cell Deactivated</b>
Fri 07/11/2014 10:57:34	<b>ENTRAP : PRI_MC: Photo Cell Activated</b>
Fri 07/11/2014 10:57:21	INFO : Radio Input Deactivated
Fri 07/11/2014 10:57:21	INFO : Radio Input Activated
Fri 07/11/2014 10:56:46	<b>WARNING: PRI_MC: Tamper Reported</b>
Fri 07/11/2014 10:56:36	INFO : SEC_MC: Fully Open Position Unknown
Fri 07/11/2014 10:56:36	INFO : PRI_MC: Fully Open Position Unknown
Fri 07/11/2014 10:56:36	<b>WARNING: PRI_MC: Tamper Reported</b>
Fri 07/11/2014 10:56:33	ENTRAP : PRI_MC: Photo Cell Deactivated
Fri 07/11/2014 10:56:33	ENTRAP : PRI_MC: Photo Cell Activated
Fri 07/11/2014 10:56:33	ENTRAP : PRI_MC: Photo Cell Deactivated
Fri 07/11/2014 10:56:33	ENTRAP : PRI_MC: Photo Cell Activated

1. Plug MAX USB flash drive into **OBD port** of Matrix 1. OBD LED will flash while file is downloading. Remove flash drive after LED stops flashing (up to 5 minutes to download file).
2. Plug flash drive into any computer USB port **OR** smart phone using a USB phone adapter. The most recent **1000 events can be viewed**. No special software required.

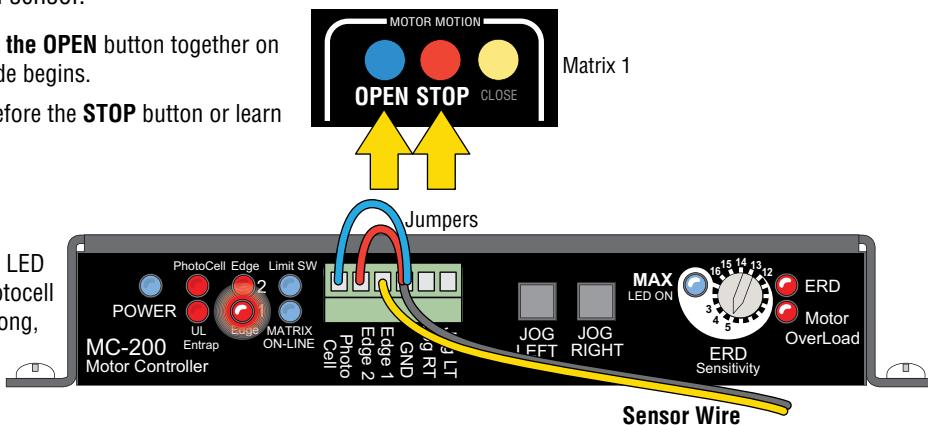
## TEST EDGE 1 ENTRAPMENT SENSOR

Troubleshoot **EDGE 1** entrapment protection sensor.

1. Press and **HOLD** the **STOP** button & then the **OPEN** button together on Matrix 1 until beeping is heard, learn mode begins.

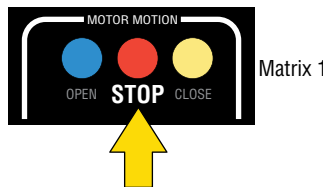
**NOTE: DO NOT** press the **OPEN** button before the **STOP** button or learn mode will **NOT** function.

2. **EDGE 1** LED should be **ON** MC-200 if an entrapment sensor is detected. If **EDGE 1** LED is **NOT** on, wiring to photocell is bad, photocell is out of alignment, photocell is wired wrong, photocell is bad, or sensor is **NOT** normally closed (N.C.), etc.



3. Press **STOP** button again within 5 min. to end learn mode, beeping stops.

**NOTE:** If **STOP** button is not pressed within 5 min. learn mode automatically end after 5 min.



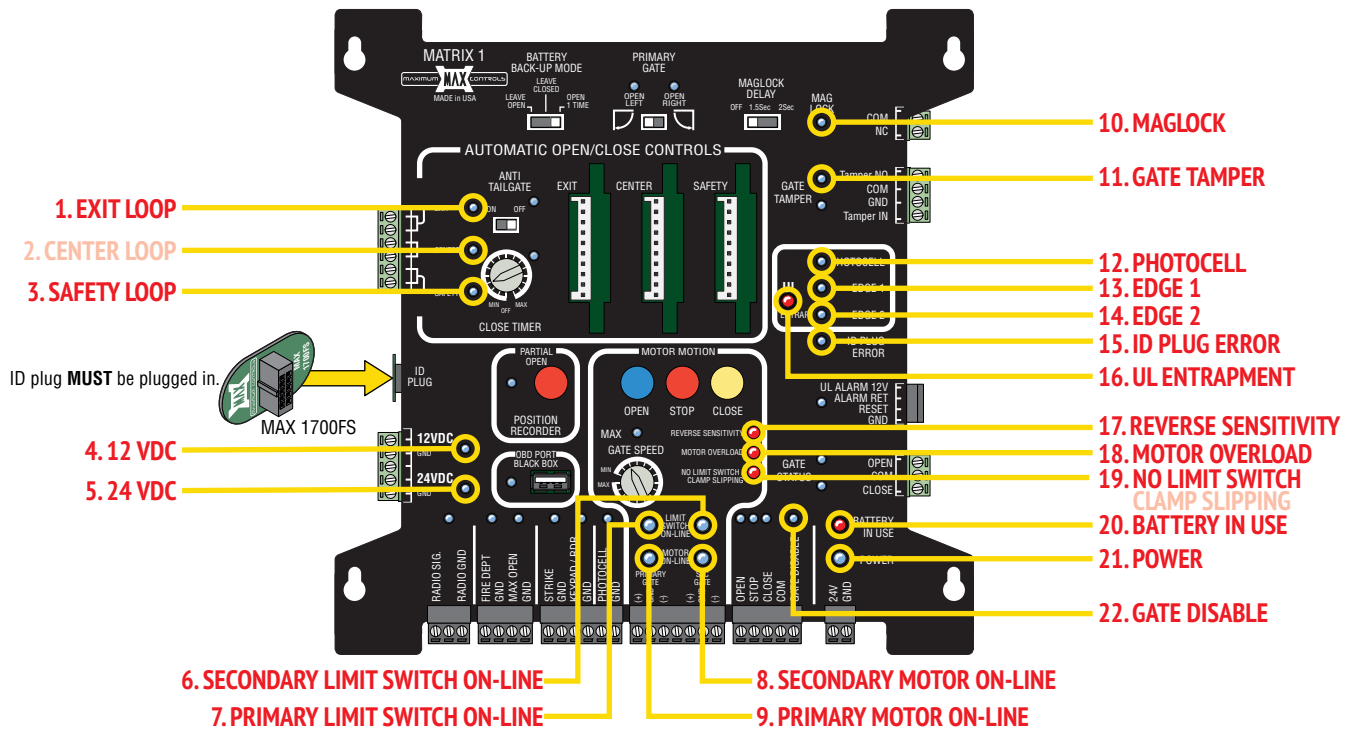


# GATE CYCLING TROUBLESHOOTING

Use this table to help with troubleshooting AND operator LED troubleshooting on the next 4 pages.

Gate Symptom	Solutions (what to check)
Gate beeps but will not open or close for any command given.	<ul style="list-style-type: none"> <li>• Check GATE SHUTOFF switch, it should be OFF. Turn switch ON then OFF again, possible chain drop event and switch needs to be recycled. GATE DISABLE LED should be OFF.</li> </ul>
Gate moves slowly.	<ul style="list-style-type: none"> <li>• Check if OPEN and CLOSE Limits have been learned. Refer to Learn Gate Positions section and learn limits.</li> <li>• Check if GATE SPEED rotary dial is set to MAX position (LED on).</li> <li>• Gate may be too heavy for operator (check manual for maximum gate weight for your model operator).</li> <li>• Check if "BATTERY IN USE" LED is ON. If so, gate is on Battery back up mode and battery is running low.</li> </ul>
Gate beeps when opening and closing.	<ul style="list-style-type: none"> <li>• Operator may be in battery back up mode. check if Mode 1 switch is ON on the back of Matrix 1.</li> <li>• Check if "Gate in Motion" Alarm feature is ON ("Mode 0" switch is on back of Matrix 1 and set to "ON").</li> </ul>
Gate does NOT open.	<ul style="list-style-type: none"> <li>• Check if Power LEDs are ON on both Matrix 1 and MC-200. Check if "MOTOR ON-LINE" LED and "LIMIT SWITCH ON-LINE" LED are both ON on Matrix 1.</li> <li>• Check if PRIMARY GATE "open RIGHT / open LEFT" switch is set properly.</li> <li>• Check if GATE SHUTOFF switch is OFF (GATE DISABLE LED should be OFF)</li> <li>• Check if GATE DISABLE LED is ON. If so, check if GATE DISABLE input is active.</li> <li>• Check if "EDGE 2" LED or "PHOTOCELL" LED is ON or BLINKING on MC-200. If so, check entrapment sensor wiring or missing jumper.</li> <li>• Check if "BATTERY IN USE" LED is ON. IF so, battery may be too low and gate is kept closed (BATTERY BACK-UP MODE switch set to "Leave Closed").</li> </ul>
Gate does NOT close.	<ul style="list-style-type: none"> <li>• Check if Power LEDs are ON on both Matrix 1 and MC-200. Check if "MOTOR ON-LINE" LED and "LIMIT SWITCH ON-LINE" LED are both ON on Matrix 1.</li> <li>• Check if "EDGE 1" LED is ON or BLINKING on MC-200. If so, check entrapment sensor wiring and alignment.</li> <li>• Check if any loops are active, check SAFETY LOOP or EXIT LOOP LED is ON.</li> <li>• Check if any open command inputs are active (check if LED is ON on the matrix 1 for: RADIO, FIRE DEPT, MAX OPEN, STRIKE, KEYPAD/RDR, PHOTOCELL). Check device connected to the input that LED light is turned ON.</li> <li>• Check if PRIMARY GATE "open RIGHT / open LEFT" switch is set properly.</li> <li>• Check if GATE SHUTOFF switch is OFF (GATE DISABLE LED should be OFF)</li> <li>• Check if GATE DISABLE LED is ON. If so, check if GATE DISABLE input is active.</li> <li>• If "EDGE 2" LED or "PHOTOCELL" LED is ON or BLINKING on MC-200. If so, check entrapment sensor wiring or missing jumper.</li> <li>• If "BATTERY IN USE" LED is ON and BATTERY BACK-UP MODE switch = "Leave Open", then battery may be too low and gate is kept OPEN.</li> <li>• If "BATTERY IN USE" LED is ON and BATTERY BACK-UP MODE switch is set to "OPEN 1-TIME", then if AC power is lost, gate will automatically open 1 time.</li> <li>• If "CLOSE TIMER" is OFF, then gate will not close automatically. A close command (i.e radio, close) is required to close gate.</li> <li>• Loop detector is defective (EXIT, or SAFETY).</li> <li>• Loop has a short or open. Measure loop resistance.</li> </ul>
Gate stops prematurely and beeps, moves in opposite direction.	<ul style="list-style-type: none"> <li>• If "ERD" LED is ON, an obstruction (ERD event) is detected. If no apparent obstruction, select a less sensitive ERD setting.</li> <li>• If "EDGE 2" LED is ON, entrapment sensor is triggered or jumper on connector is broken.</li> </ul>
Gate will stop before reaching desired limit setting.	<ul style="list-style-type: none"> <li>• Gate Open and Close Limits have not been learned properly. Relearn limit positions using jog RT and jog LT.</li> <li>• The magnet(s) are not installed in correct limit position on the chain.</li> <li>• Only for OPENING gate (not during closing cycle): Check if PARTIAL OPEN feature is turned ON. Relearn partial open position or turn off PARTIAL OPEN feature.</li> </ul>
Gate stops abruptly while in motion.	<ul style="list-style-type: none"> <li>• If "MATRIX ON-LINE" LED or "LIMIT SWITCH ON-LINE" LED are OFF on MC-200, then check wiring between (MC-200 &amp; Matrix 1) or (MC-200 and Limit switch box).</li> <li>• Check if "PHOTOCELL" LED is ON on MC-200. If so, check entrapment sensor wiring or missing jumper</li> <li>• Motor hall sensor cable may be compromised. Unplug cable from MC-200 "Motor Inputs" and ensure wires are not broken and are crimped properly.</li> </ul>
Gate re-opens while closing.	<ul style="list-style-type: none"> <li>• Check if closing photo cell is misaligned with reflector (check photocell on MC-200 "EDGE 1" input or Matrix 1 "Photocell" input.</li> <li>• Check if SAFETY LOOP is set too sensitive, then gate itself triggers SAFETY loop and reopens gate. Desensitize SAFETY LOOP detector.</li> </ul>

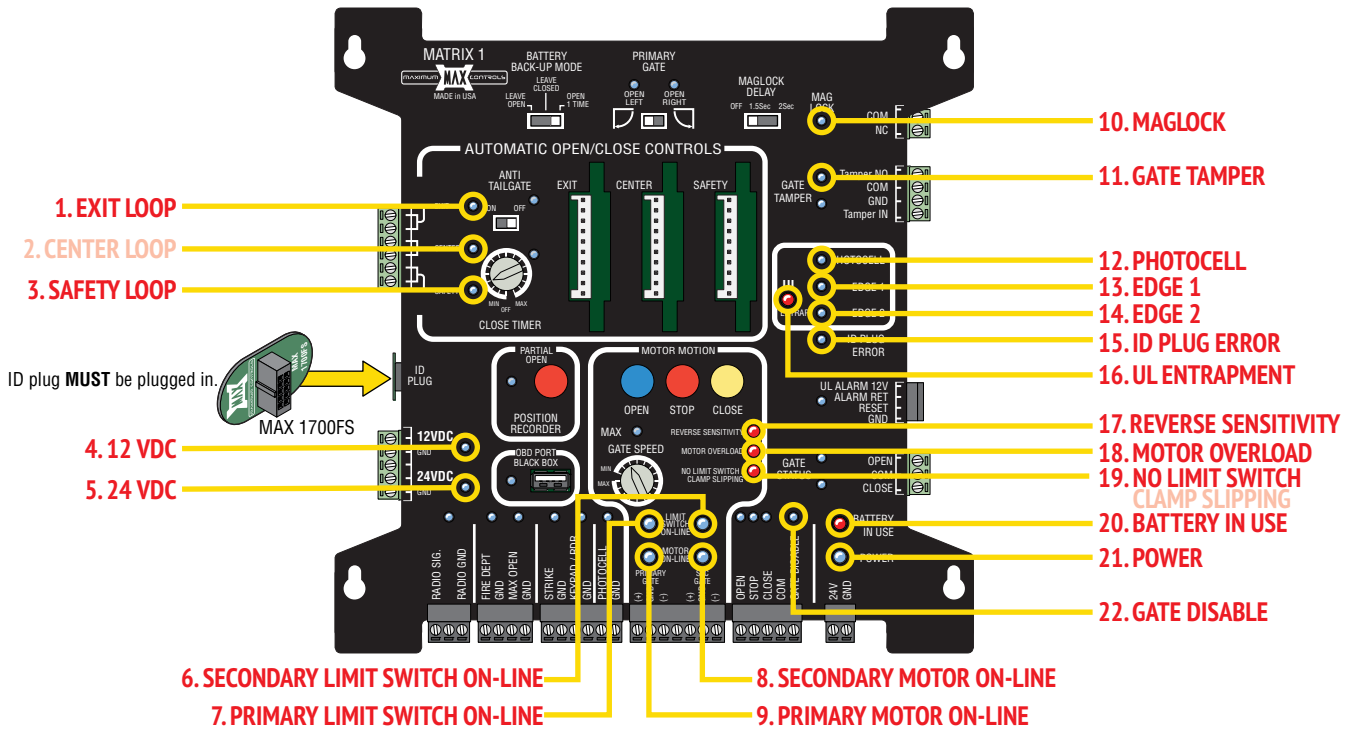
# MATRIX 1 LED TROUBLESHOOTING



Matrix 1 LED Problem Condition	Normal LED	Solution(s) for Problem Condition
"ID PLUG" LED is FLASHING on Matrix 1 and board beeping	OFF <b>15</b>	<ul style="list-style-type: none"> <li>Insert ID PLUG module that is tethered to chassis into "ID PLUG" connector of Matrix 1.</li> </ul>
"POWER" LED is OFF	ON <b>21</b>	<ul style="list-style-type: none"> <li>Check if AC POWER ON/OFF SWITCH is ON.</li> <li>Check 24 V wiring from MC-200 PRIMARY.</li> </ul>
"BATTERY IN USE" LED is ON	OFF <b>20</b>	<ul style="list-style-type: none"> <li>AC power is lost, operator is in battery back-up mode.</li> <li>Check if AC POWER ON/OFF SWITCH is ON.</li> <li>Measure power input DC voltage on Matrix 1 ("24V/GND" - 2-pin black connector), (expected reading 34 VDC if AC on, 25VDC if on battery back-up).</li> </ul>
"BATTERY IN USE" and "POWER" LED are FLASHING	OFF / ON <b>20 / 21</b>	<ul style="list-style-type: none"> <li>Battery not plugged in to BATTERY IN port on battery charger (BC-7 module)</li> </ul>
PRIMARY "MOTOR ON-LINE" LED is OFF	ON <b>9</b>	<ul style="list-style-type: none"> <li>Check wiring between Matrix 1 RS485 (+, -, gnd) and PRIMARY MC-200 RS485 (+, -, gnd) terminals, connect [(+) to (+)], [(-) to (-)] and [GND to GND]</li> </ul>
SECONDARY "MOTOR ON-LINE" LED is OFF	ON <b>8</b>	<ul style="list-style-type: none"> <li>Check wiring between Matrix 1 RS485 (+, -, gnd) and SECONDARY MC-200 RS485 (+, -, gnd) terminals, connect [(+) to (+)], [(-) to (-)] and [GND to GND].</li> </ul>
PRIMARY "LIMIT SWITCH ON-LINE" LED is OFF	ON <b>7</b>	<ul style="list-style-type: none"> <li>Check if limit switch box is plugged into PRIMARY MC-200 "LIMIT SWITCH" input on back and MC-200 is powered ON.</li> </ul>
SECONDARY "LIMIT SWITCH ON-LINE" LED is OFF	ON <b>6</b>	<ul style="list-style-type: none"> <li>Check if limit switch box is plugged into SECONDARY MC-200 "LIMIT SWITCH" input on back and MC-200 is powered ON.</li> </ul>
"UL Entrap" LED is ON	OFF <b>16</b>	<ul style="list-style-type: none"> <li>An entrapment event has occurred, check if an entrapment sensor was triggered (see if EDGE 1, EDGE 2, or PHOTOCELL LED is on).</li> </ul>
"REVERSE SENSITIVITY" LED is FLASHING	OFF <b>17</b>	<ul style="list-style-type: none"> <li>An ERD event may have occurred. Check for gate obstruction.</li> <li>ERD sensitivity is too high for application. Re-adjust ERD setting on MC-200, (see <b>8</b>).</li> </ul>
"EDGE 1" LED is ON	OFF <b>13</b>	<ul style="list-style-type: none"> <li>Sensor on EDGE 1 input (photocell or edge) may have detected an obstruction while closing gate.</li> <li>Photocell on EDGE 1 input is misaligned with reflector.</li> </ul>
"EDGE 1" LED is flashing	OFF <b>13</b>	<ul style="list-style-type: none"> <li>Sensor on EDGE 1 input (photocell or edge) may not be wired properly, (see <b>7</b>).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>
"EDGE 2" LED is ON	OFF <b>14</b>	<ul style="list-style-type: none"> <li>Jumper between EDGE 2 and GND is missing or broken (jumper is required if a sensor is not present). Sensor on EDGE 2 input (photocell or edge) may have detected an obstruction while opening or closing gate.</li> </ul>
"EDGE 2" LED is FLASHING	OFF <b>14</b>	<ul style="list-style-type: none"> <li>Photocell on EDGE 2 input is misaligned with reflector.</li> <li>Sensor on EDGE 2 input (photocell or edge) may not be wired properly, (see <b>7</b>).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor on EDGE 2 is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>

Table continued on next page

# MATRIX 1 LED CONTINUED

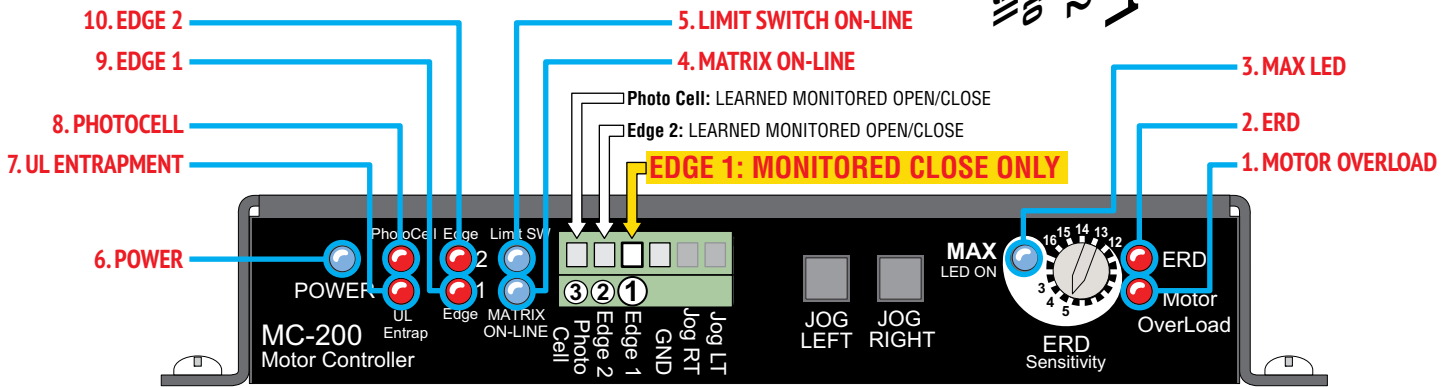
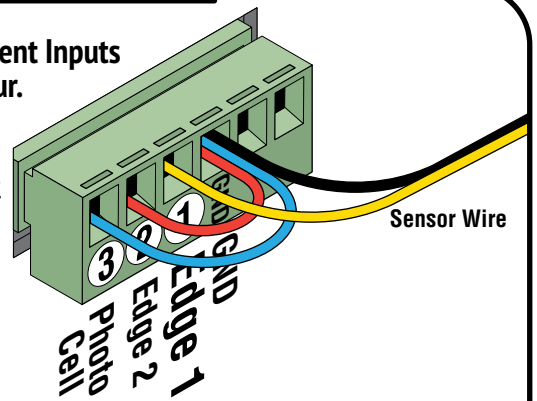


Matrix 1 LED Problem Condition	Normal LED	Solution(s) for Problem Condition
"PHOTOCELL" LED is ON	OFF <b>12</b>	<ul style="list-style-type: none"> <li>Jumper between PHOTOCELL and GND is missing or broken (jumper is required if a sensor is not present).</li> <li>Sensor on PHOTOCELL input (photocell or edge) may have detected an obstruction while opening or closing gate.</li> </ul>
"PHOTOCELL" LED is FLASHING	OFF <b>12</b>	<ul style="list-style-type: none"> <li>Photocell on PHOTOCELL input is misaligned with reflector.</li> <li>Sensor on PHOTOCELL input (photocell or edge) may not be wired properly, (see 7).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor on PHOTOCELL is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>
"MOTOR OVERLOAD" LED is ON	OFF <b>18</b>	<ul style="list-style-type: none"> <li>Check if gate is binding against catch post or bracket in opened or closed position.</li> <li>Check if gate moves manually with low resistance throughout its full range of motion.</li> <li>Check if chain is installed inline with idle wheels in both OPEN and CLOSED positions.</li> </ul>
"NO LIMIT SW / CLAMP SLIPPING" LED is ON	OFF <b>19</b>	<ul style="list-style-type: none"> <li>Gate may be too heavy for operator (check manual for maximum gate capacity).</li> <li>Check if OPEN and CLOSE magnets are still connected on chain.</li> </ul>
"EXIT" LOOP LED is FLASHING or constantly ON	OFF <b>1</b>	<ul style="list-style-type: none"> <li>Loop fault condition: Check if EXIT loop wires are connected into to loop input connector properly.</li> <li>Check if loop detector is inserted properly in Matrix 1 slot.</li> <li>Set unique loop detector frequency for each loop detector used.</li> <li>Loop Detector might be defective. Replace defective loop detector.</li> </ul> <p>NOTE: RENO loop detector LED's flash as default, but function normally (ignore the flashing).</p>
"SAFETY" LOOP LED is FLASHING or constantly ON	OFF <b>3</b>	<ul style="list-style-type: none"> <li>Loop fault condition: check if SAFETY loop wires are connected into to loop input connector properly.</li> <li>Check if SAFETY loops are wired in series.</li> <li>Check if loop detector is inserted properly in Matrix 1 slot.</li> <li>Set unique loop detector frequency for each loop detector used.</li> <li>Loop Detector might be defective. Replace defective loop detector.</li> </ul> <p>NOTE: RENO loop detector LED's flash as default, but function normally (ignore the flashing).</p>
"GATE DISABLE" LED is ON	OFF <b>22</b>	<ul style="list-style-type: none"> <li>Check if "Gate Shut-off" switch is ON, Turn it OFF. If it is OFF, cycle the switch (ON then OFF).</li> <li>Check if the chain is dropped. If so, gate is disabled for safety. Re-install chain and cycle the "Gate Shut-off" switch (ON then OFF) to enable operator.</li> <li>Check if an external device is triggering GATE DISABLE input on Matrix 1. Disconnect devices individually to determine possible false triggering of GATE DISABLE.</li> </ul>
"MAG LOCK" LED is FLASHING	OFF <b>10</b>	<ul style="list-style-type: none"> <li>Maglock power is lost. Check if maglock power transformer is wired properly to Matrix 1 or needs to be replaced.</li> <li>Switch is set to delay but no maglock is connected. Set switch to OFF</li> </ul>
"GATE TAMPER" LED is FLASHING	OFF <b>11</b>	<ul style="list-style-type: none"> <li>Gate was manually moved off of its CLOSED position causing Tamper Relay to trigger for few seconds.</li> </ul>
"12VDC" LED is OFF. "24VDC" LED is OFF	ON <b>4 or 5</b>	<ul style="list-style-type: none"> <li>Check for a short in wiring to connected device. DO NOT power external keypads or telephone entry to this port (only use for radio receiver / photocell).</li> </ul>

# MC-200 LED TROUBLESHOOTING

Jumper UNUSED Entrapment Inputs to GND or a fault will occur.

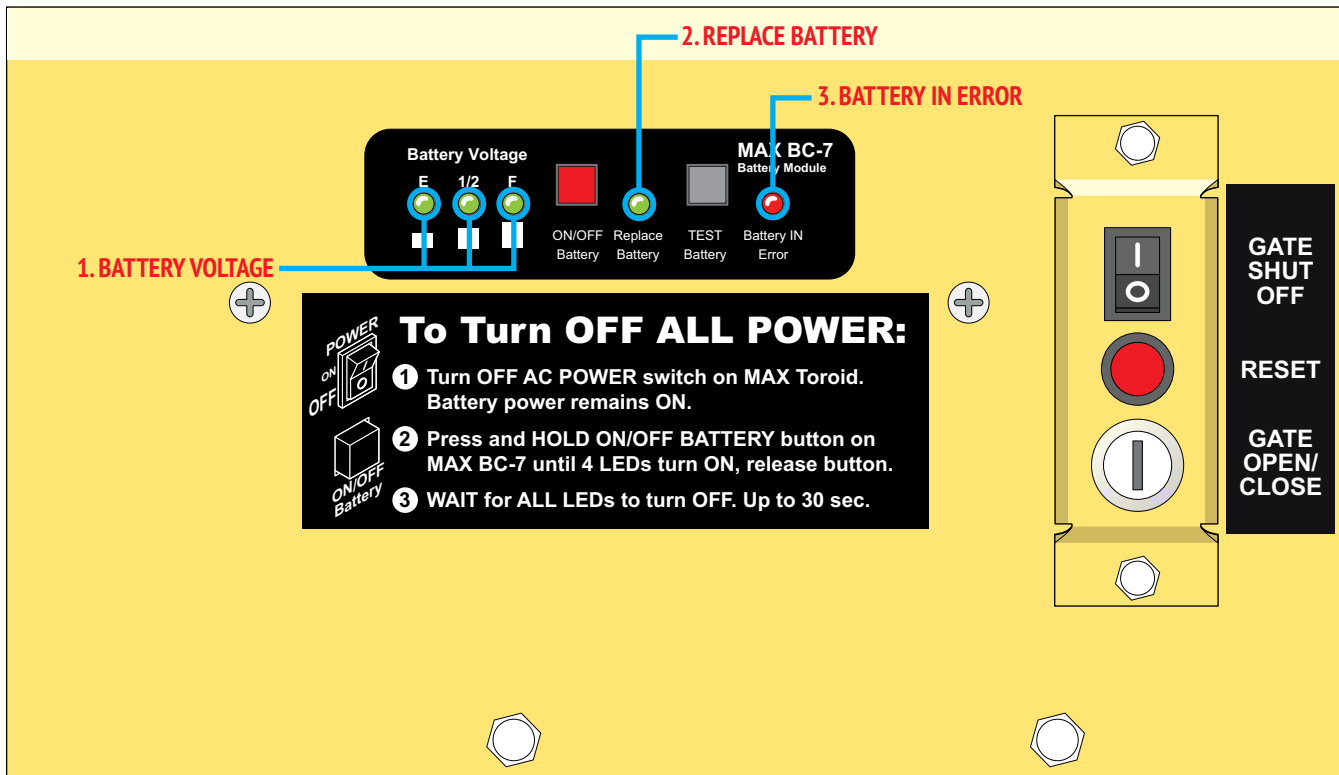
Example: Inputs 2 & 3 are NOT used and MUST be jumpered to GND.



## ENTRAPMENT INPUTS

MC-200 LED Problem Condition	Normal LED	Solution(s) for Problem Condition
"POWER" LED is OFF	ON 6	<ul style="list-style-type: none"> <li>Check if AC POWER ON/OFF SWITCH (on MAX toroid box) is ON.</li> <li>Check if power cable is plugged into back of MC-200 "Power In" input.</li> </ul>
"MATRIX ON-LINE" LED is OFF	ON 4	<ul style="list-style-type: none"> <li>Check wiring between Matrix 1 RS485 (+, -, gnd) and MC-200 RS485 (+, -, gnd) terminals. Connect [(+) to (+)], [(-) to (-)] and [GND to GND].</li> </ul>
"Limit SW ON-LINE" LED is OFF	ON 5	<ul style="list-style-type: none"> <li>Check if limit switches are plugged into MC-200 "LIMIT SWITCH" input on back.</li> </ul>
"MOTOR OVERLOAD" LED is ON	OFF 1	<ul style="list-style-type: none"> <li>Check if gate is binding against catch post or bracket in opened or closed position.</li> <li>Check if gate moves manually with low resistance throughout its full range of motion.</li> <li>Check if chain is installed inline with idle wheels in both OPEN and CLOSED positions.</li> <li>Gate may be too heavy for operator (check manual for maximum gate weight for your model operator).</li> </ul>
"UL Entrap" LED is ON	OFF 7	<ul style="list-style-type: none"> <li>An entrapment event has occurred, check an entrapment sensor was triggered (see if ERD, EDGE 1, EDGE 2, or PHOTOCELL LED is on).</li> </ul>
"ERD" LED is ON	OFF 2	<ul style="list-style-type: none"> <li>An ERD event may have occurred. Check for gate obstruction.</li> <li>ERD sensitivity is too high for application. Re-adjust ERD setting on MC-200, (see 9).</li> </ul>
"EDGE 1" LED is ON	OFF 9	<ul style="list-style-type: none"> <li>Sensor on EDGE 1 input (photocell or edge) may have detected an obstruction while closing the gate.</li> <li>Photocell on EDGE 1 input is misaligned with reflector.</li> </ul>
"EDGE 1" LED is flashing	OFF 9	<ul style="list-style-type: none"> <li>Sensor on EDGE 1 input (photocell or edge) may not be wired properly, (see 7).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>
"EDGE 2" LED is ON	OFF 10	<ul style="list-style-type: none"> <li>Jumper between EDGE 2 and GND is missing or broken (jumper is required if a sensor is not present).</li> <li>Sensor on EDGE 2 input (photocell or edge) may have detected an obstruction while opening or closing the gate.</li> <li>Photocell on EDGE 2 input is misaligned with reflector.</li> </ul>
"EDGE 2" LED is FLASHING	OFF 10	<ul style="list-style-type: none"> <li>Sensor on EDGE 2 input (photocell or edge) may not be wired properly, (see 7).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor on EDGE 2 is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>
"PhotoCell" LED is ON	OFF 8	<ul style="list-style-type: none"> <li>Jumper between PHOTOCELL and GND is missing or broken (jumper is required if a sensor is not present).</li> <li>Sensor on PHOTOCELL input (photocell or edge) may have detected an obstruction while opening or closing gate.</li> <li>Photocell on PHOTOCELL input is misaligned with reflector.</li> </ul>
"PhotoCell" LED is FLASHING	OFF 8	<ul style="list-style-type: none"> <li>Sensor on PHOTOCELL input (photocell or edge) may not be wired properly, (see 7).</li> <li>Sensor is NOT a N.C. monitored sensor that is UL325 2016 compliant.</li> <li>Sensor on PHOTOCELL is damaged or malfunctioning.</li> <li>Sensor might need to be re-learned.</li> </ul>
"MAX" LED is ON	OFF 3	<ul style="list-style-type: none"> <li>MOST sensitive setting for ERD entrapment detection. Select a less sensitive setting (recommended level 13 thru 16)</li> </ul>

# BC-7 MODULE LED TROUBLESHOOTING



BC-7 LED Problem Condition	Normal LED	Solution(s) for Problem Condition
"BATTERY VOLTAGE (E 1/2 F)" LEDs, only "E" is ON. "BATTERY IN ERROR" LED is ON.	1 OFF 3	<ul style="list-style-type: none"> <li>Battery is very LOW. Check if AC power ON/OFF switch is ON. If so, check AC power.</li> <li>"BATTERY Plug" not plugged in to "BATTERY IN" port on battery module (see below).</li> </ul>
"REPLACE BATTERY" LED is ON.	OFF 2	<ul style="list-style-type: none"> <li>Battery needs to be replaced if BATTERY TEST fails and "REPLACE BATTERY" LED is ON.</li> </ul>

**POWER/SOLAR IN Port:**  
MAX Megatron Toroid box connection.

**POWER IN / Battery Pack Ports:**  
Back of MAX MC-200 motor controller connections.

**Battery IN Error LED:** Lights when there is a battery connection problem. Make sure battery plug #1 is plugged into BATTERY IN port or there is no damaged or loose wires.

**TEST Battery Button:** Press to show amount of battery power available when using battery power ONLY (Battery voltage LEDs will light respectively).

**Replace Battery LED:** Replace battery when lit.

**ON/OFF Battery Button:**  
**IMPORTANT:** Battery power automatically turns ON when MAX Megatron Toroid Box AC POWER Switch is turned ON.

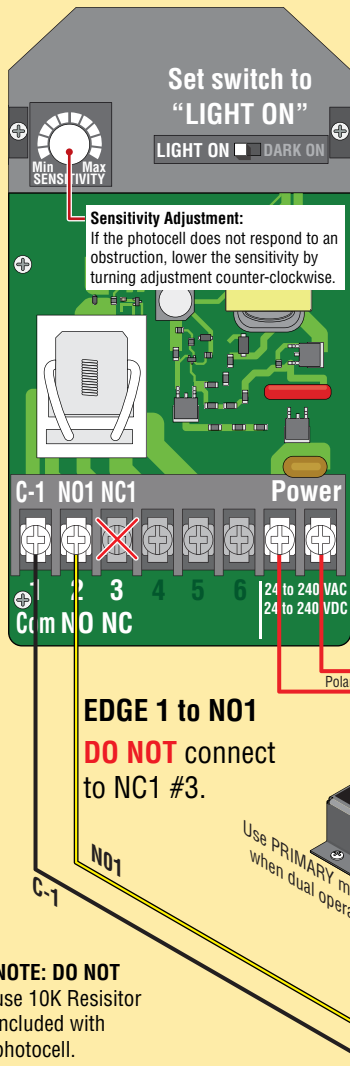
**To turn OFF ALL POWER to operator:**

- Turn OFF AC POWER Switch on MAX Megatron Toroid Box. Battery power remains ON.
- WAIT for 15 seconds.
- Press and HOLD (approx. 5 seconds) the RED ON/OFF BATTERY button until MAX BC-7 LEDs turn ON, then release button. LEDs will turn OFF. (Up to 30 sec.)

**BATTERY Plug:**  
MUST be plugged into "BATTERY IN" port Before use.

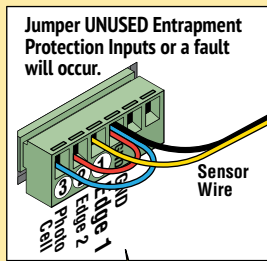


# Commonly used Safety Sensor Wiring

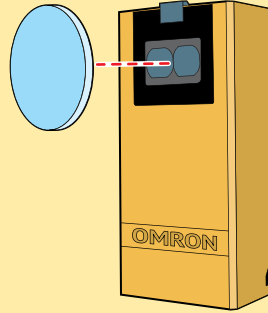


## Installation Steps:

1. Set switch to "LIGHT ON"
2. Wire 12V power to photocell
3. Wire motor controller **EDGE 1** to photocell **NO1**  
Wire motor controller **GND** to photocell **C-1**
4. Align photocell to reflector
5. Adjust sensitivity



## OMRON E3K-R10K4

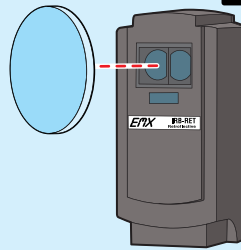


**Photocell (Reflector) CLOSING Direction**

NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device MUST be MONITORED by the gate operator.

**IMPORTANT:** Photocell MUST be in alignment with reflector or fault will occur.

## EMX IRB-RET



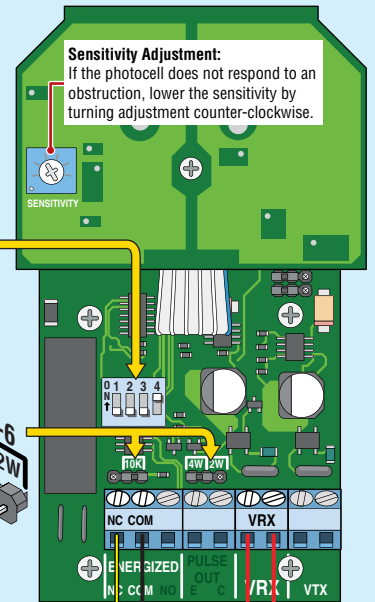
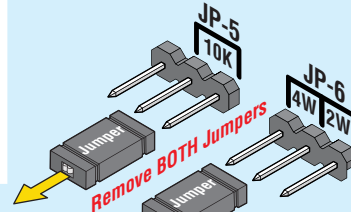
**Photocell (Reflector) CLOSING Direction**

**Sensitivity Adjustment:**  
If the photocell does not respond to an obstruction, lower the sensitivity by turning adjustment counter-clockwise.

### DIP-Switches

- 1 - OFF
- 2 - OFF
- 3 - OFF
- 4 - ON

NOTE: Power must be cycled when switches are changed.

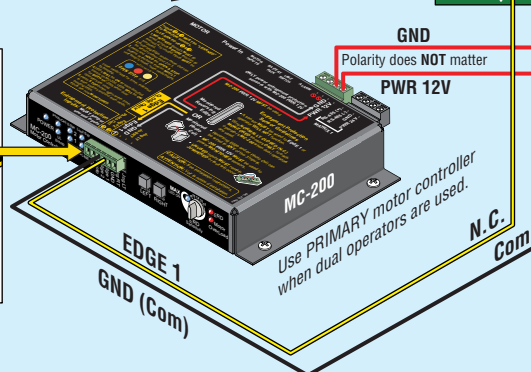
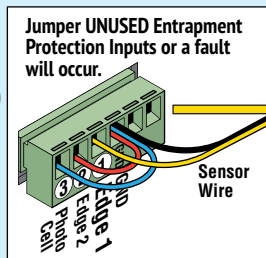


**IMPORTANT:** Photocell MUST be powered by MAX Motor Controller or it will NOT be MONITORED.

NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device MUST be MONITORED by the gate operator.

## Installation Steps:

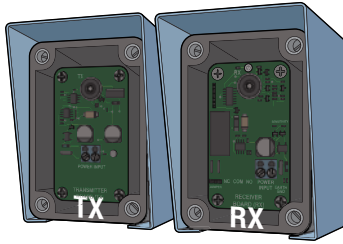
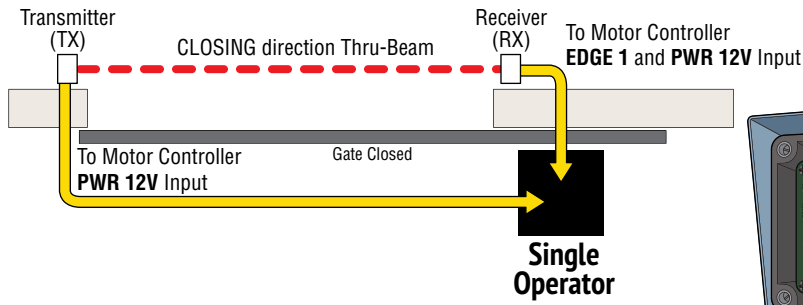
1. Set DIP-switches
2. Remove jumpers JP-5 and JP-6
3. Wire 12V power to photocell (**VRX**)
4. Wire motor controller **EDGE 1** to photocell **NC (Energized)**  
Wire motor controller **GND** to photocell **COM (Energized)**
5. Align photocell to reflector
6. Adjust sensitivity



**Power NOTE:** If photocell does NOT function using VRX power input, connect power to VTX input instead.

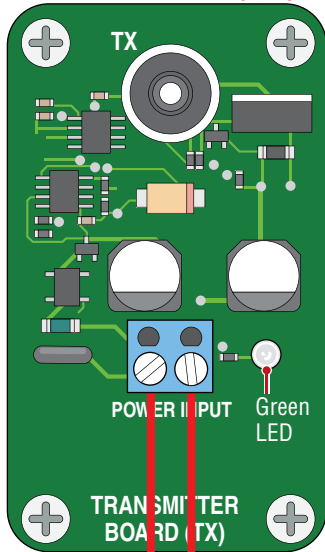


## Photocell (Thru-Beam) CLOSING Direction Single Gate Operator



**IMPORTANT:** Photocells **MUST** be in alignment or fault will occur. Green LED will remain **ON** receiver when in proper alignment.

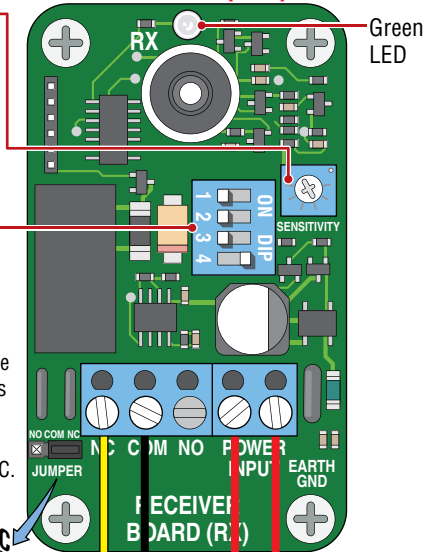
### Transmitter (TX)



### Installation Steps:

1. Set DIP-switches on receiver.
2. Install jumper on receiver.
3. Wire 12V motor controller power to receiver.
4. Wire motor controller **EDGE 1** to receiver photocell **NC**. Wire motor controller **GND** to receiver photocell **COM**.
5. Wire 12V motor controller power to transmitter.
6. Align photocells.
7. Adjust sensitivity on receiver.

### Receiver (RX)

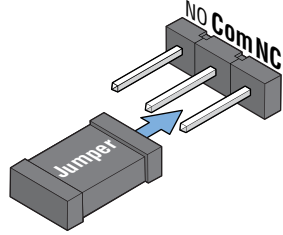


**Sensitivity Adjustment:**  
If the photocell does not respond to an obstruction, lower the sensitivity by turning adjustment counter-clockwise.

### DIP-switches:

1, 2, 3 are **OFF**.  
Switch 4 is **ON**.  
If trouble occurs, try turning switch 4 **OFF**.  
**NOTE:** Power must be cycled when switches are changed.

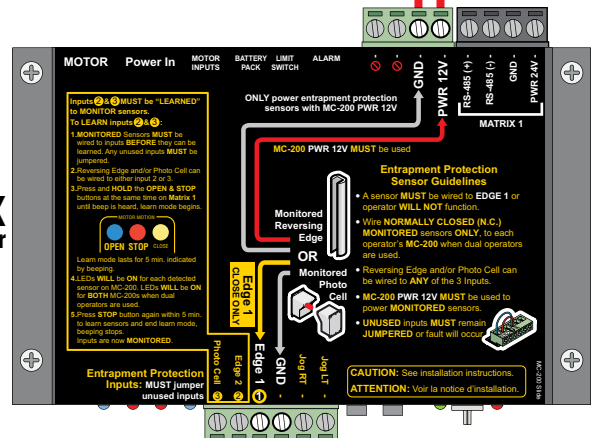
Jumper **MUST** be on Com-NC.



**PWR 12V**  
Polarity does **NOT** matter

**IMPORTANT:** Photocells **MUST** be powered by Motor Controller or they will **NOT** be **MONITORED**.

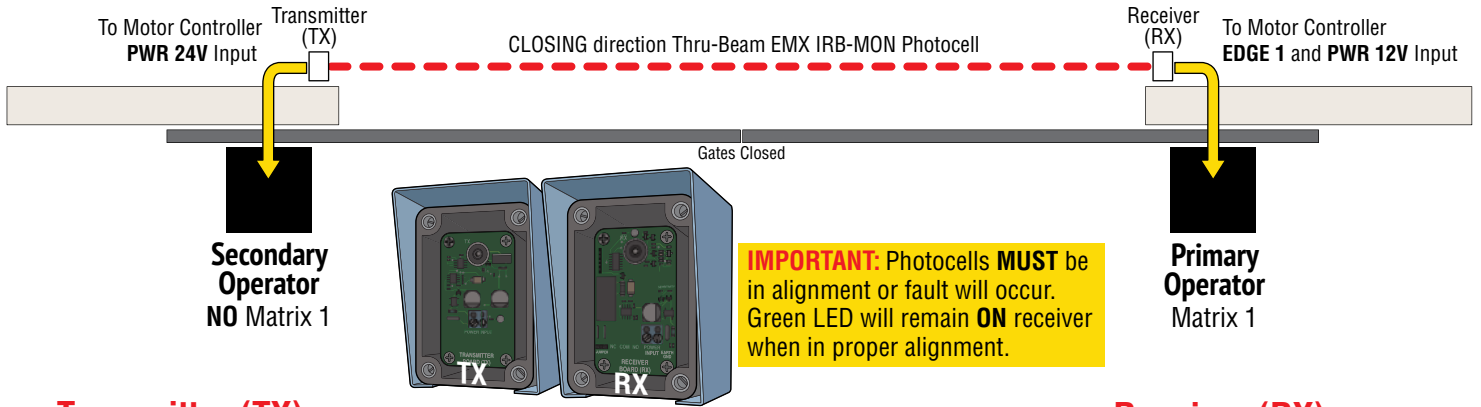
### MAX Motor Controller



Jumper **UNUSED** Entrapment Protection Inputs to **GND** or a fault will occur.

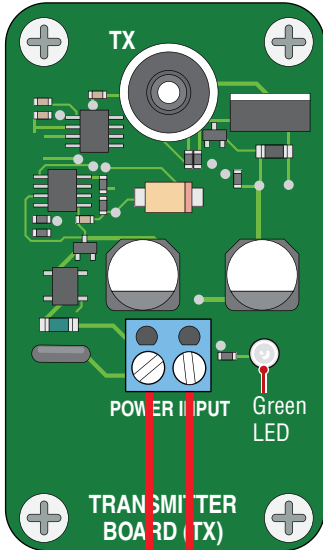
NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.

## Photocell (Thru-Beam) CLOSING Direction Dual Gate Operators



**IMPORTANT:** Photocells **MUST** be in alignment or fault will occur. Green LED will remain **ON** receiver when in proper alignment.

### Transmitter (TX)

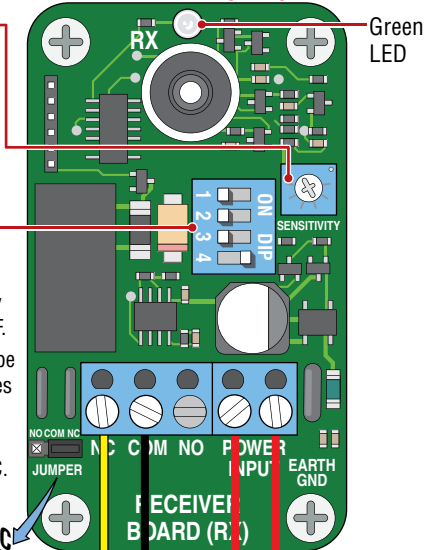


### Installation Steps:

1. Set DIP-switches on receiver.
2. Install jumper on receiver.
3. Wire **12V** Primary motor controller power to **receiver**.
4. Wire Primary motor controller **EDGE 1** to receiver photocell **NC**. Wire Primary motor controller **GND** to receiver photocell **COM**.
5. Wire **24V** Secondary motor controller power to **transmitter**.
6. Align photocells.
7. Adjust sensitivity on receiver.

**IMPORTANT:** Photocells **MUST** be powered by Motor Controllers or they will **NOT** be **MONITORED**.

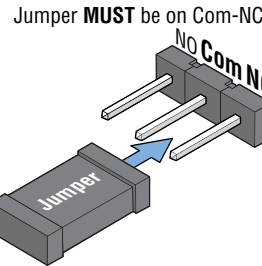
### Receiver (RX)



**Sensitivity Adjustment:** If the IRB-MON does not respond to an obstruction, lower the sensitivity by turning adjustment counter-clockwise.

**DIP-switches:** 1, 2, 3 are **OFF**. Switch 4 is **ON**. If trouble occurs, try turning switch 4 **OFF**.

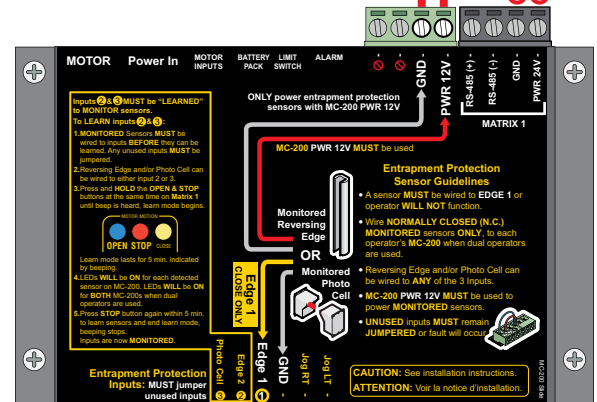
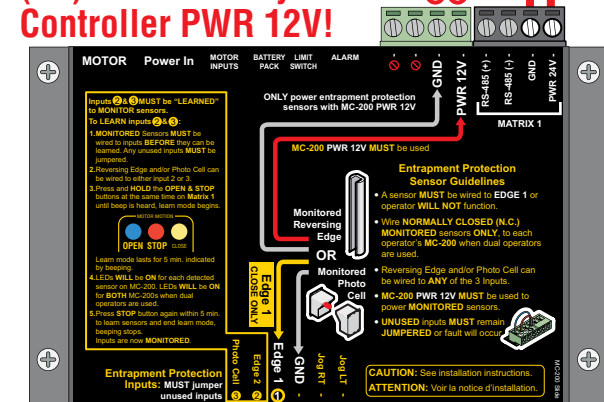
**NOTE:** Power must be cycled when switches are changed.



**DO NOT** wire Transmitter (TX) to Secondary Motor Controller PWR 12V!

**PWR 24V** Polarity does **NOT** matter

**PWR 12V** Polarity does **NOT** matter



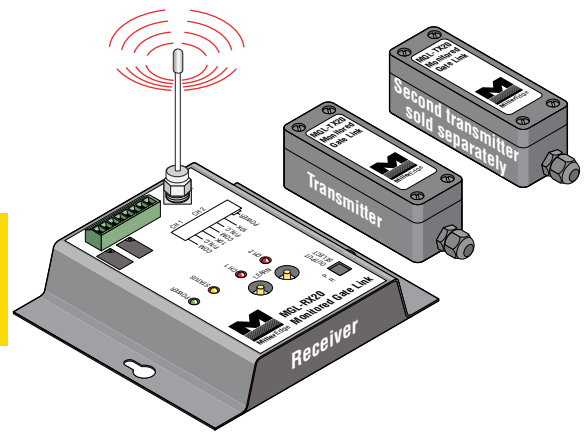
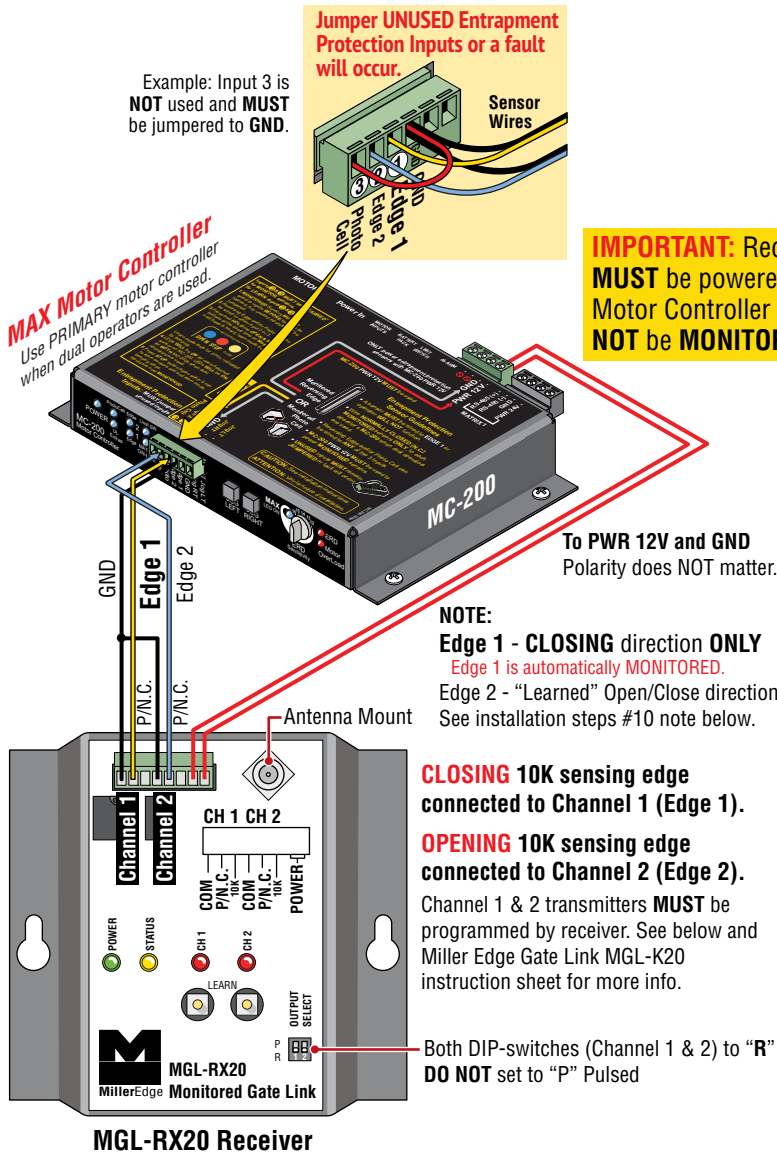
### SECONDARY Motor Controller

Jumper **ALL** Entrapment Protection Inputs to **GND**.

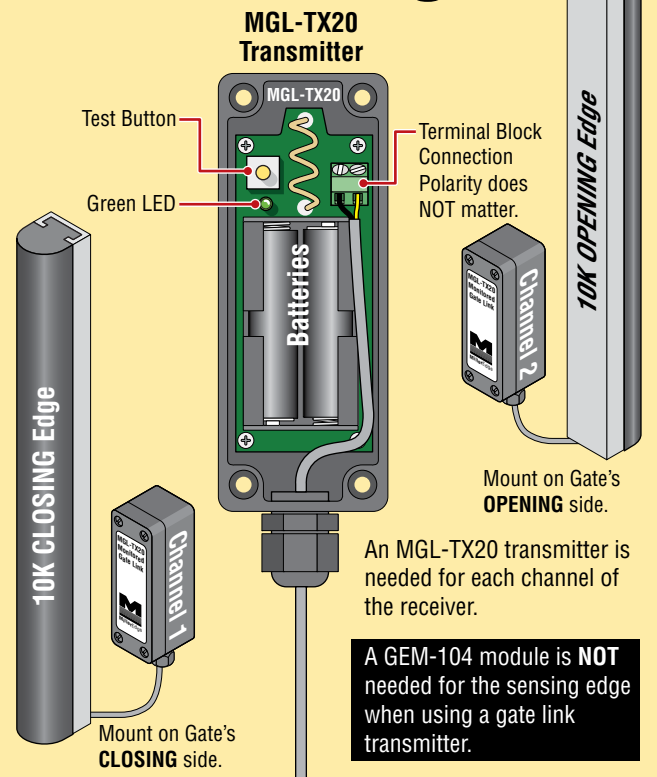
### PRIMARY Motor Controller

Jumper **UNUSED** Entrapment Protection Inputs to **GND** or a fault will occur.

NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.



### Wire 10K Edges



### Installation Steps:

1. Set Both DIP-switches to "R" on receiver
2. Wire 12V power to receiver, polarity does not matter
3. Wire motor controller **EDGE 1** to receiver **CH 1-P/N.C.**  
Wire motor controller **GND** to receiver **CH 1-COM**
4. Wire motor controller **EDGE 2** to receiver **CH 2-P/N.C.**  
Wire motor controller **GND** to receiver **CH 2 - COM**
5. Install antenna on receiver
6. Install batteries in transmitters
7. Wire **Channel 1** Transmitter to **CLOSING** Edge **ONLY**
8. Wire **Channel 2** Transmitter to **OPENING** Edge
9. Program Channel 1 and 2 on MGL-RX20 receiver
10. Program MAX motor controller to "LEARN" Edge 2

**NOTE:** Edge 2 will function without being "Learned" but will NOT be MONITORED by the MAX gate operator.  
See your chosen Max operator manual to program the MAX motor controller to "Learn" Edge 2 if desired.

### Gate Link Receiver/Transmitter Programming:

1. Make sure receiver and transmitters have power.
2. Green power LED stays ON; CH 1 red LED will be blinking on receiver.
3. To enter Learn mode, press the CH 1 Learn button for 1 sec. The red led remains ON and the amber status LED will blink.
4. Activate the transmitting edge, the red and amber LEDs will alternately blink rapidly on receiver. Then the red LED will go out and the amber LED will remain ON.
5. Channel 1 is now programmed. Repeat steps for Channel 2.
6. To start over or erase programming, press and hold both LEARN buttons for 3 seconds. The LEDs will blink rapidly and then go into "fault" mode. Repeat the programming steps above.



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CONFORMS TO UL STD 325  
UL CLASS - I, II, III, IV

CERTIFIED TO CAN/CSA STD  
C22.2 NO. 247

**SAFETY SENSORS REQUIRED**



## **Residential/Commercial Brushless DC Slide Gate Operator**

Made in USA



Intertek  
4009963

Maximum Controls LLC.  
10530 Lawson River Ave  
Fountain Valley, Ca 92708  
Tel: (949) 699-0220