GATE ARMS+
LIGHTED FOR SAFETY
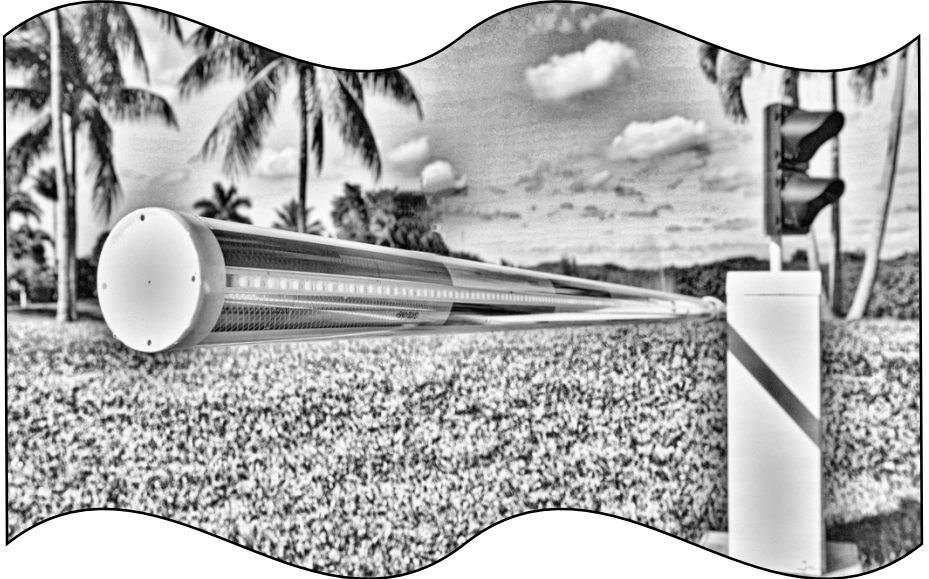
LED BARRIER ARMS & LED CONTROLLER

INSTALLATION MANUAL

IMPORTANT SAFETY INFORMATION

IMPORTANT

Please read all instructions and safety information prior to attempting installation.

Always disconnect 110V and 12V power from gate operator equipment prior to touching any wiring or installing anything. Serious injury could occur if power is not disconnected prior to installation.

BE HIGHLY CAUTIOUS OF OVERHEAD POWER LINES!

Ask for assistance from another person to install gate arms. Removal and replacement of the gate arm pole is much simpler with two people.

Always use appropriate PPE during installation including safety glasses, gloves and hearing protection as needed.

Install as directed. GateArms+ LED Barrier Arms and LED Controllers are intended for use as described herein and by the product literature available for download at www.GateArms.com

Any mis-use, alteration or modification of GateArms+ branded products beyond what is described in the available product literature will void all warranties.

Rev# 200326_R4.4a

i

TABLE OF CONTENTS

UNBOX-GET ORGANIZED

Items included in the parts kit:

- Gate Arm with pre-installed LED Strip
- LED Wiring Harness
- Parts Kit containing:

  (2) 5/16" x 3 ½" Stainless-Steel bolts
  (4) 5/16" Nylon Nuts (2 extra)
  (3) 5/16" Stainless-Steel Washers (1 extra)
  (1) Cable Strain Relief Fixture
  (1) Installation Manual
  (1) Gate LED Controller
  (1) 110V to 12VDC Power Adapter
  (1) Pre-cut Signal Cable (4-wire 22AWG)
  (3) Press-on Headers
  (1) 13# Counter-Weight (ARM15KIT only)

Tools Needed (not included):

- 1/2" Open End Wrench
- 1/2" Wrench or Socket
- 9/16" Wrench or Socket (Counter-Weight)
- 5/8" Drill Bit (Metal Drilling–Dual LED)
- 1/2" Drill Bit (Metal Drilling–Single LED)
- Wire Stripper
- Power Drill
- Small Flat Screwdriver
- Voltmeter (AC & DC)
- Rat-tail file (optional)
- Dielectric Grease
- Zip Ties

www.GateOpenerSafety.com | (800) 878-7829 | Sales@GateOpenerSafety.com

1. **PROGRAM THE LED CONTROLLER**

   The **GATE ARMS+ LED Controller** is a programable device. Change settings using 1 of 3 methods:

   1. Mode Button (Switch between 3 modes by holding button 3 sec.)
   2. USB port & PC Configuration Tool
   3. Jumper wire(s)

   > **1.1.** See Appendix E for specific wiring and programming instructions for the most common makes and models of gate operator.

2. **TURN OFF OPERATOR POWER**

   WARNING: Serious injury could occur if power is not disconnected prior to installation.

3. **REMOVE EXISTING ARM**

   Remove existing gate arm from operator and replace existing bolts and washers with the new stainless-steel parts included in inventory.
   NOTE: Always throw away used nylon nuts.
   *Used nylon nuts should never be reused.*

4. **INSTALL NEW GATE ARMS+ BRACKET**

   If there is not a 3" arm bracket already installed on the operator, install it now. Brackets are available for all common gate operators.

2
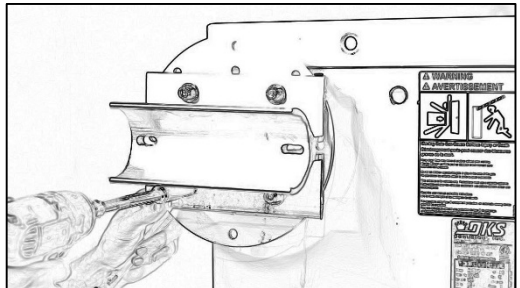
5. **INSTALL NEW GATE ARM**

Mount gate arm to bracket, using (1) washer and (1) nylon nut per bolt. Black nylon nuts are UV-protected. Do not over-tighten nuts. They should be snug, but they are easy to strip. Stop tightening once bolt exits nut.
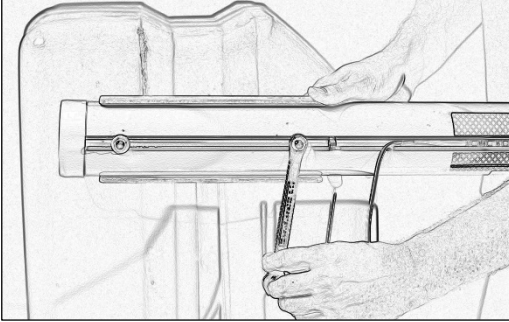
IMPORTANT: arm must not wiggle at all inside the bracket, or it may crack due to unequal stress loads. THIS WILL VOID THE WARRANTY.

If arm wiggles, replace the pivot pin or operator bracket with a new 3" bracket.

5.1. **INSTALL COUNTERWEIGHT (ARM15 ONLY)**

If installing an ARM15, insert counterweight into end of arm near bracket.

6. **DRILL HOLE FOR CABLE RELIEF FITTING**

- Put arm in UP position for easier access.

- Drill hole in gate arm operator chassis (Single LED – 1/2", Dual LED – 5/8").
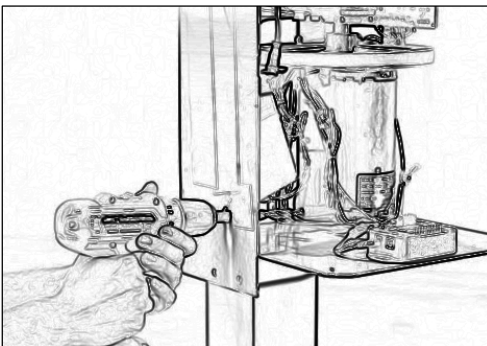
- Position the hole so that the wire will be as hidden and as short as possible. Try to be directly behind the new gate arm's connector.

- Deburr hole with drill bit or metal rattail file.

7. INSTALL CABLE RELIEF FITTING
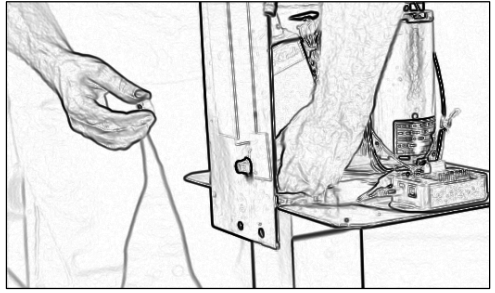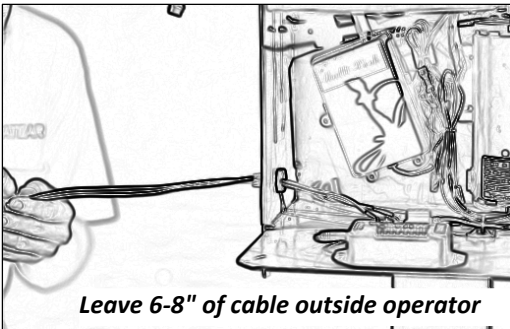
Remove outer (tension) nut from cable relief fitting, then insert fitting into the new hole. Tighten the Back Nut onto the fitting inside the operator housing. This nut holds the fitting to the operator wall.

8. PULL HARNESS CABLE(S) INTO OPERATOR

Slide raw wire end of LED wiring harness through the cable relief Tension Nut, entering through the narrowest side. If Dual LED, slide both cables through the same fitting. Leave 6-8" of cable outside of the operator. It is essential that the cable always has some slack in it, regardless of arm position.

Leave 6-8" of cable outside operator

9. PLUG HARNESS INTO ARM

Plug harness wire into gate arm's LED connector. **There is a notch** inside to enforce correct orientation. Match the two sides up.

Align notch for correct orientation

Tighten Cable Relief Fitting's Tension Nut so cable(s) cannot move.
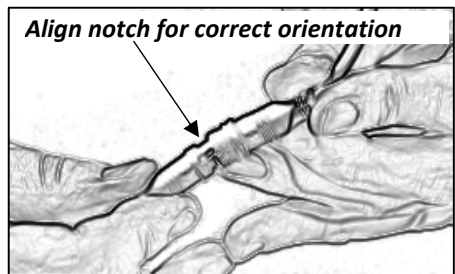
NOTES:

1. Connector cap is **cut** on both sides to ensure it does not grab too tightly. This is by design so it will detach if gate arm is hit by a car.
2. There is dielectric grease inside the connector. Add more grease to female side in the future if connector is unplugged.

4

10. INSTALL POWER ADAPTER AND CONTROLLER INSIDE CABINET

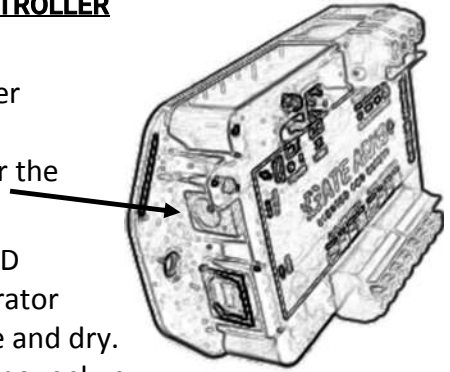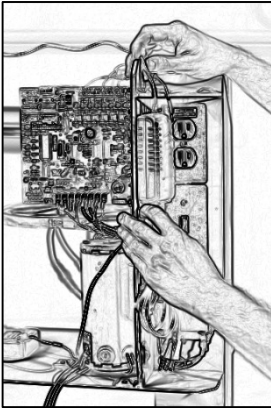Plug DC power plug from 12V power supply into the power port on LED Controller, located on the side near the USB port.

Place the 12V power supply and LED Controller inside the gate arm operator chassis where they will remain safe and dry.

Route power supply power cord to an available receptacle on the operator's 120 VAC outlets.

NOTES:

1. **Do not plug 110v plug into outlet yet!**

2. **IMPORTANT:** The Controller can only accept power voltage of 12 VDC. Higher voltage may irreversibly damage the LED Controller. **THIS WILL VOID WARRANTY.**

11. CONNECT HARNESS CABLE(S) TO CONTROLLER

Route Harness Cable through inside of gate operator chassis until end is located near where LED Controller will be positioned.

Connect Harness Cable's wires to the press-on header(s). Match wire colors to labels on LED Controller cover.

Push press-on header(s) vertically onto the LED Controller pins with screw heads facing outwards.
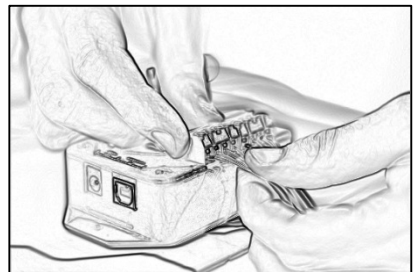
WARNING: Do not connect more than one LED strip per header.

NOTE: Ensure all cables will always avoid the pulley and any moving parts or sharp edges.

5

12. <u>CONNECT SIGNAL CABLE TO LED CONTROLLER</u>

The Installation Kit includes a 4-wire Signal Cable for connecting to the signal wire posts on gate operator's control board.

Remove upper-right 4-pin press-on wire header from LED Controller.

Connect one end of the Signal Cable's wires to the press-on header. Note pin definitions on LED Controller cover.

- Black = Ground
- Green = Open
- Red = Close
- Yellow = Aux (Auxiliary Open)

Plug press-on header into LED Controller with screw heads facing OUT.
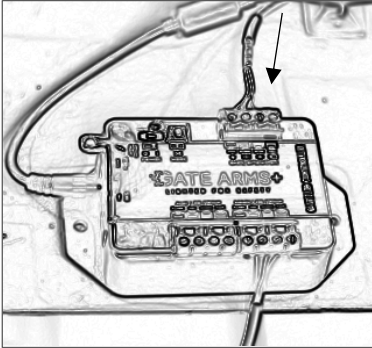
Route the Signal Cable from the LED Controller to the gate operator control board.

13. <u>CONNECT SIGNAL CABLE TO OPERATOR</u>

Connect the Signal Cable to the gate operator control board. Follow wiring guide. See Appendix E.

⚠️ **IMPORTANT – OVER VOLTAGE WILL VOID WARRANTY**

MAX VOLTAGE: The GATE ARMS+ LED Controller can accept any signal voltage from 2.5-30 VDC. Higher voltage may cause irreversible damage to the Controller.

D/C SIGNALS ONLY: The LED Controller can only accept D/C or dry-contact signals. A/C signals will irreversibly damage the Controller.

NOTE: We offer an optional **A/C Signal Converter board** that allows the use of A/C signals with this LED Controller.

---

14. **CONFIRM WIRING**

Take a moment to reconfirm all connections on each of the cables.

- Check both sides of the power cable.
- Check the operator's signal wire posts where the Signal Cable is connected. Ensure you are tied into the right circuits for open and close. Ensure Common (Ground) is well-connected.
- Check the LED strip(s) to ensure the wire colors correspond correctly to the colors printed on the LED Controller.

15. **REVIEW WIRE MANAGEMENT**

Use zip ties to secure all wiring inside the lift-arm operator housing so the pulley and belt will never touch any wires.

16. **TURN LED CONTROLLER POWER-SWITCH TO ON**

Turn LED Controller switch on. The amber LED by the switch should immediately light up. LED strip should turn on (red) after 1 second.

17. **TURN ON OPERATOR POWER**

FIRST, turn on the 110v switch and then plug the 12V Power Supply into the 110VAC outlet located inside the operator.

NOTE: Adapter can accept 100-240VAC.

18. **TEST-OPEN HEAVY GATE**

Open the heavy gate

- If Aux is connected to interlock, LEDs will Flash Amber while heavy gate is opening,

19. **TEST -OPEN BARRIER ARM—ARM GOES UP GREEN**

Raise the gate arm by triggering Open

- The Red LED lights should flash red when the arm begins to go up.
- Lights turn solid Green when arm is fully open.

20. **TEST-CLOSE BARRIER ARM—ARM GOES DOWN RED**

Lower the gate arm by triggering close

- The Green lights should flash Red immediately when the arm begins to descend.
- Lights should turn solid Red when arm is closed.

21. **FINALIZE**

- Close and secure gate operator case.
- Check the gate operator belt. If it is loose, tighten it.

LED Controller Configuration Tool

GATEARMS+ LED Controller Configuration Tool 3.1

Check for Updates | Firmware Version

Select a Profile

Profile
- Amano-McGANN AGP
- Autogate VPG490 /w Genesis Brd
- Delta Scientific AG812
- Doorking 1601, 1602
- Doorking 9150
- F1 Viking
- FAAC B680H
- GPS 1195, 112
- HySecurity StrongArmPark DC
- HySecurity StrongArm Hydraulic
- Ideal tilt away HYJD-B
- Liftmaster BG770, BG790
- Liftmaster BG770, BG790: COM 1
- Liftmaster BG770, BG790: COM 6
- Liftmaster Elite CSW24
- Liftmaster Elite CSW200UL
- Liftmaster LA500
- Liftmaster Mega Arm, Sprint
- Linear Osco BGU-14-311
- Magnetic MicroDrive, Toll
- Maximum Controls
- PowerMaster Nitro 1.0

Add | Remove | Duplicate | Save

Input Logic

Firmware: Version 3.0 / GAT-190214 / GAT-200102

Signals

- Wired to: Operator Inputs / Limit Switches
- Trigger Priority: Open / Close / Neither
- Default State: Opened / Closed

LED Strip Behavior

- Brightness: 100 percent
- Transition Effect: Enabled / Disabled
- Green Flash: Disabled / Enabled
- Red is white: Disabled / Enabled
- AUX LED Role: Flash Red / No Light / Clone Mode / External Control
- While arm moving: Blend Colors / Flash Red / Flash Blue / Flash Amber
- Blink when Opening: 0 seconds
- Blink when Closing: 0 seconds

Auto Close Timer

- Enabled: Yes / No
- Trigger at: 30 seconds

Aux Signal

- Role: Disabled / Heavy Gate / Dim LED Strips / Toggle Open Close
- Idles On: Voltage / Ground / No Connection
- Clean Release: 40 milliseconds
- Triggers On: Voltage / Ground / No Connection
- Clean Trigger: 20 milliseconds
- Triggers When: Entering / Exiting
- Amber Flashing: Enabled / Disabled

Controller

- Mode Button: Enabled / Disabled
- Flash Rate: 2.0 flash per sec / 2.7 flash per sec
- Detection Threshold: ~ 2.5 VDC / ~ 8.5 VDC

Program Now | Print Instructions

Green Fade Out

- Enabled: Yes / No
- Stay on for: 3 seconds

Open Signal

- Enabled: Yes / No
- Idles On: Voltage / Ground / No Connection
- Clean Release: 40 milliseconds
- Clean Trigger: 20 milliseconds
- Triggers When: Entering / Exiting

Close Signal

- Enabled: Yes / No
- Idles On: Voltage / Ground / No Connection
- Clean Release: 40 milliseconds
- Triggers On
- Clean Trigger: 20 milliseconds
- Triggers When: Entering / Exiting

INSTALLING THE CONFIGURATION TOOL

INSTALL PROGRAM

1. Using a computer Internet browser, visit the website address: http://GateArms+/download

2. Download a version of the LED Controller Configuration Tool appropriate for your computer.

3. Stop any AntiVirus programs that are running.

4. Open (run) downloaded file with Administrative rights to install it.

CONNECT CONTROLLER TO PC

1. Detach power from LED Controller.

2. Use a Type-B (printer) USB cable (not included) to connect the LED Controller to the computer.

3. The PC should immediately recognize that the device was connected, although it will not install any supporting driver software.

4. Use the Configuration Tool to program the LED Controller.

5. Detach the USB Cable from the LED Controller.

6. Test LED Controller on your gate.
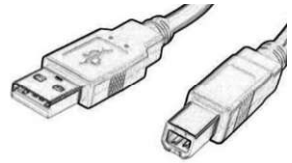
NOTE: If device is NOT RECOGNIZED, you will need to manually connect the driver file to the device using the following steps:

1. Open Device Manager in Windows
    a. Right-click "Computer", then choose "Manage"
    b. Or, click "Start Button", then "Administrative Tools", then "Computer Management", then "Device Manager"
2. Find "LED Driver" with a alert mark on it, probably in "Unknown Devices" group
3. Right-click that item, then choose "Update Driver Software"
4. Click "Browse…"
5. Click "Browse" again if necessary, to search your computer C: drive
6. Open "Program Files (x86)"
    a. WinXP folder = "Program Files"
7. Find folder "GateArms+", then "Configurator", then "Driver". Click the "Driver" folder, then click "OK" button
8. Click the "Next" button and "Close".

LED PROGRAMMING DEFINITIONS

"Idles On": (Voltage / Ground / No Connection):

This defines the input's default state when there is no activity at the gate.

[VOLTAGE] The signal input will idle with voltage on the pin.

[GROUND] The signal input will idle with ground on the pin.

[NO CONNECTION] The signal input will idle on a disconnected circuit

"Triggers On": (Voltage / Ground / No Connect):

This setting asks "What causes a signal to fire?"

[VOLTAGE] The signal input will trigger on voltage higher than the "Signals – detection threshold" voltage in the configuration tool.

[GROUND] The signal input will trigger on ground.

[NO CONNECT] The signal input will trigger when the grounded (or powered) circuit loses continuity and then "floats".

"Triggers When" (Entering / Exiting):

This setting defines whether a signal fires at the beginning of a signal's duration ("Entering") or when signal terminates ("Exiting").

[For Open] this should generally be "Entering" since the LEDs change state immediately when an open signal is received.

[For Close] this should generally be "Exiting" since the signal should fire only after a close (loop) event is no longer being received.

"Signals – Noise Cleaning":

The Controller is extremely sensitive to voltage changes, so it only will consider a voltage change significant if it persists for longer than the noise cleaning milliseconds. Anything less is ignored.

SIGNALS

Wired to: If using a barrier operator, select "Operator Inputs". Swing or slide gate operators select "Limit Switches". Do not use "Motor".

Trigger Priority: Determines whether the Open or Close or most-recent input has priority (in a conflict).

Default State: Sets the color that appears on power-up.

10

LED STRIP BEHAVIOR

Brightness: Sets LED brightness level.

NOTE: If "*Aux-Dim LED Strips*" is on, LEDs dim to this brightness level.

Transition Effect: Enables/disables transition effect between open/close.

Green Flash: Green light flashes instead of being steady when arm is up

Red is White: The red light will be white instead. Used for higher visibility in daylight and usually paired with the high-brightness LED strip

AUX LED Role: Controls role of second LED header (STRIP/AUX DEVICE).

Flash Red Aux LED (the back of the barrier arm) flashes red when the arm is up.

No Light Aux LED is turned off when the arm is up (the old typical behavior)

Clone Mode sets both LED headers to be identical.

External Control sets AUX LED header as a 12VDC power supply (Green has power on fully-open, Red has power on fully-closed, Blue has power on "moving").

While Arm Moving If you choose Flash Red, the arm flashes red while in motion (Default for Mode 3 / Swing Gate mode) (proposed for Mode 2 -- still not confirmed). Blend Colors will transition between green and red in the traditional style (Default for Mode 1 / Standard liftmaster). If configured to Flash Blue, it will flash blue instead of Red while the arm is moving. IF configured to amber, the LED will flash amber while going up -- but it will still flash red while going down.

Blink when Opening: Sets the LEDs to flash red upon opening for the time set (prior to turning solid green).

Blink when Closing: Sets LEDs to flash red upon closing for time set (prior to turning red).

11

GREEN FADE-OUT

Enabled: When enabled, the LEDs will only remain on for the time set ("Stay on for") – maximum 66 seconds, then will turn off (no lights).
Stay on For:

AUTO-CLOSE TIMER:

When the Timer is enabled, it will reset Green to Red after the given time expires. This timer acts as a secondary (back-up) close event.
NOTES:
1. If the gate(s) is kept in a "locked open" position for extended periods, you should disable the timer to maintain Green LED state. In Advanced (GAT only) mode, you can set Green Fade-Out so green turns off after X seconds.
2. In heavy gate + barrier arm scenarios, you often need to disable or extend the Timer's time-out since heavy gates are slow to open.

AUX SIGNAL Role:

Disabled – turns off Aux pin
Heavy Gate – enables interlock mode. LEDs flash amber during heavy-gate opening, and flash red when closing
Dim LED Strips – when pin is grounded, dim LEDs to level set in "Brightness" control
Toggle Open Close – enables click-open, click-close behavior (i.e. Liftmaster MegaArm pin 4).
Amber Flashing Turns on/off flashing effect while heavy-gate opening.

CONTROLLER:

Detection Threshold (8.5V / 2.5V): Trigger is fired when voltage crosses this threshold. Default is 2.5V.

APPENDIX B: PROGRAM THE LED CONTROLLER MANUALLY

You can program most features using the Mode button and 1 or 2 jumper wires. Connect two pins with a jumper wire, and while holding the programming button, turn-on the power switch. Contact our tech support team for assistance with jumper-based programming.

NOTE: Programming with a jumper is easy when no computer is available. If you need to program several controllers at once you should use the PC Configuration Tool. This tool is also better for setting timers precisely.

- **Using MODE Button**
    1. Turn on LED Controller
    2. Hold/Release Mode button for 3 sec. to rotate through 3 scenarios.

    Mode 1: Voltage-Drop with Interlock Option (Liftmaster) *

    Mode 2: DoorKing Standard profile with flashing in motion *

    Mode 3: Dry-contact limits (Swing/Slide Gate profile)

    * new in 2020

- **Remove Special Programming**: Hold Mode button down for 3 seconds (with no jumpers) until fading effect of status LED turns to solid.
- **Single-Action Programming**
    1. Remove all press-on header(s) temporarily
    2. Turn off LED Controller.
    3. Connect jumper wire between 2 pins as described in following table.
    4. While holding "Mode" button down, turn on power switch. Status LED will flash for 2 seconds. Feature is now set.
    5. Turn off Controller. Remove jumper wire, reattach press-on headers. Turn on Controller.
- **Multi-Action Programming**
    Use for setting dimming level or duration of timers.
    1. Follow single-action programming completely.
    2. Turn LED Controller off, then back on again using its power switch.
    3. Either tap or hold-down the Mode button, depending on need.
        a. For setting the dimming level: Press and release "Mode" button quickly. Each tap dims 1 level (16 levels).
        b. For setting time: Hold the "Mode" button for the duration you desire. Time is set when you release the button.
    4. Turn LED Controller off, then back on again using its power switch

13

SINGLE-ACTION PROGRAMMING

Feature	Jumper Connections	Feature Description
Enable Clone mode	Aux Red → Close	Enables clone mode (Main & Aux LEDs are identical on both sides)
Enable 8.5V threshold	Red & Green → Close	Increases the voltage threshold to 8.5V. Note that the AC adapter and dry contact will not work on any ports.
Enable Toggle Clicker on Aux	Blue → Aux	When Aux is triggered, the state of the LED will toggle between Red and Green
Disable the Auto-Close Timer	Red → Close	Disables the auto-close timer
Enable Dimming on Command	Red → Aux	When Aux is triggered, both LED strips will dim to the configured brightness level. Default is 1/4th brightness. See below.
Disable Transition Effect	Blue → Close	Disables the animated transition effect
Invert Logic & Select Port	GND → 1 or more signal inputs	Flips "Idles on / Triggers on" around for grounded port. Also selects that port(s) for additional port-specific programming.

MULTI-ACTION PROGRAMMING

Feature	Jumper Connections	Feature Description
Enable Green Fade-Out	Red → Close, Green → Open	When enabled, the green light stays on only for a short time. Default is 5 seconds.
Enable Auto-Close & Configure Timer	Green → Close	When enabled, close will auto-trigger after a configured time. Default is 29 seconds.
Configure the Brightness Level	Red → Open	Both LED strips will dim to the configured brightness level continously. 16 levels of brightness.
Flash on UP Movement (Set time)	Blue → Open, Green → Close	When enabled, the LED will flash red when gate is opening. Default is 3 seconds.
Flash on DOWN Movement (Set time)	Blue → Open, Red → Close	When enabled, the LED will flash red when gate is closing. Default is 3 seconds.
Flash on ALL Movement (Set time)	Blue → Open, Red & Green → Close	When enabled, the LED will flash red when gate is opening or closing. Default is 3 seconds.

14

No gate arm lights on/wiring disconnect

Possible issue: Power Supply Problems

- Check LED Controller. Is it's amber LED on?

- Is the 110V power adapter LED on? Check 110V power wiring at operator power source. Trace wire from LED Controller.

- Check Press-on Headers. Are their wires well-secured? Are they pressed in vertically all the way? Screws facing outwards?

- Ensure the external connector mating the Harness to the LED Strip is fully connected.

- Check the LED strip header. Is it reversed? Screws facing outwards? Match wire colors with the words on the case cover.

Red lights stay on, No green when gate goes up

Possible Issue 1: Open Signal Wire or LED Green wire disconnected
- Check the LED strip header. Is the green wire disconnected?

- Check (green) Open signal wire connection at the Signal Press-on Header.

- Check the Open signal wire connection at the gate operator control board post. Refer to the wiring schematic and confirm correct wiring. Use a multimeter to ensure voltage or continuity is changing as expected when the gate opens.

Possible Issue 2: Controller Mis-programmed
- Ensure controller is programmed correctly for your scenario and gate operator. See wiring schematics in Appendix E.

15

Barrier Arm goes GREEN when heavy gate begins to open, but should stay RED or FLASH AMBER until barrier arm goes up.

Possible Issue: Aux Wire disconnected

- Connect the Controller's Aux signal wire to the Interlock post on the operator board.

  NOTE: You may need to use the Configuration Tool to change the default time-out setting (29 sec).

LEDs go from Green back to Red while vehicle is still in the gate

Possible Issue 1: Controller "Close" set to Entering

- Use the LED Controller's Configuration Tool and set Close to trigger on "Exiting"

Possible Issue 2: LED Controller's timer is set too low for your scenario

- Use the LED Controller's Configuration Tool and set the Timer to Disabled or to a higher value.

LEDs flashing or dimming after a while

Possible Issue: Controller is overloaded

- Only connect 1 LED strip to a LED header. Total LED strip length should not exceed 20' per header.

LEDs stay Green too long

Possible Issue: Close Wire disconnected/Timer to Close

- Connect the Controller's close signal wire to the close output post on the operator board. If no close port is used (timer to close), change the Auto-Close Timer duration to match the gate-close timer.

Still need help? Call our Tech Support line at (786)339-9840
There are many subtle configuration settings that can be tweaked to get your project working. We are eager to help you ensure that EVERY PROJECT IS A SUCCESS!
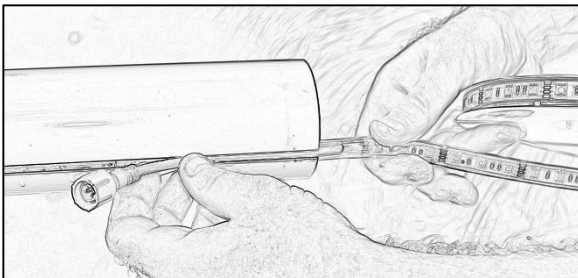
APPENDIX D: REPLACING LED STRIPS

1. Disconnect LED strip wiring connector
2. Remove gate-arm end cap (far end)
3. One person should _gently_ pull on the LED strip from the far end, while another person gently holds the wiring connector and pulls the LED strip towards the far end.

4. LED strip will slide out of track.
5. Put replacement LED roll in a bucket on the ground, or have a partner hold it.
6. Holding LED strip by the connector, _gently_ insert new LED strip into the track from the far end. One person can push from the end while the other _gently_ pulls the connector.

7. Pull LED strip into track until the wire is nearby the gate arm bracket. Leave at least an inch of space by bracket.
8. Cut the LED strip at the cut lines if necessary. Glue end cap onto LED with silicone glue. Replace the cap on the gate arm end.
9. Reconnect the LED connector to the harness connector.
10. Put a dab of silicone glue near the bracket-end of the LED strip to prevent it from moving.
11. Test to ensure LEDs turn green and red correctly.

www.GateOpenerSafety.com | (800) 878-7829 | Sales@GateOpenerSafety.com

Liftmaster MegaArm Wiring

Connect to J2 port on upper-left of Control Board. Check S1 #7 setting.
Only connect AUX wire to J5 if using Interlock function with a heavy gate or door.

(#7 ON, ARM IS REVERSED)

S1

GATE LED CONTROLLER

GATE ARMS+

PROGRAM THE LED CONTROLLER (Mode 3):

Turn power on.

Hold mode button for 4 sec. and release. Repeat until status LED flashes rapidly.

(#7 OFF – NORMAL)

S1

18
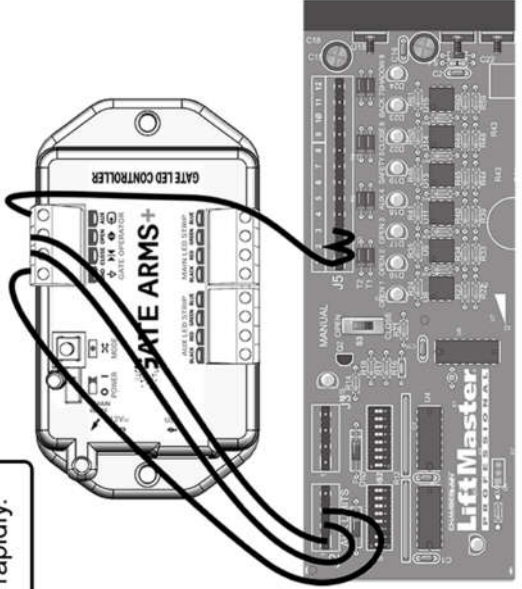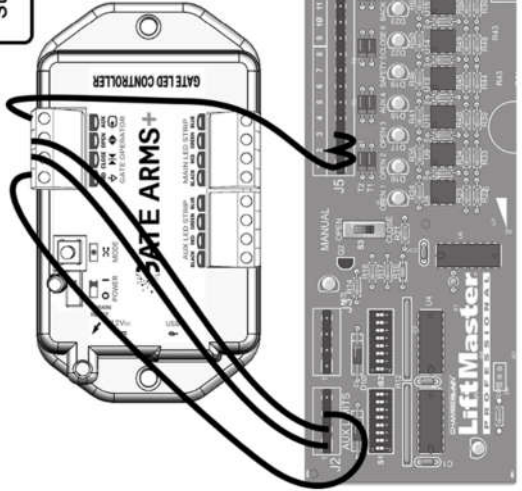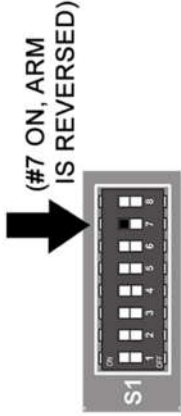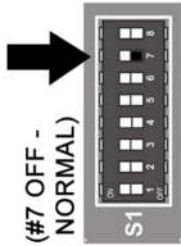
DOORKING 1601 WIRING
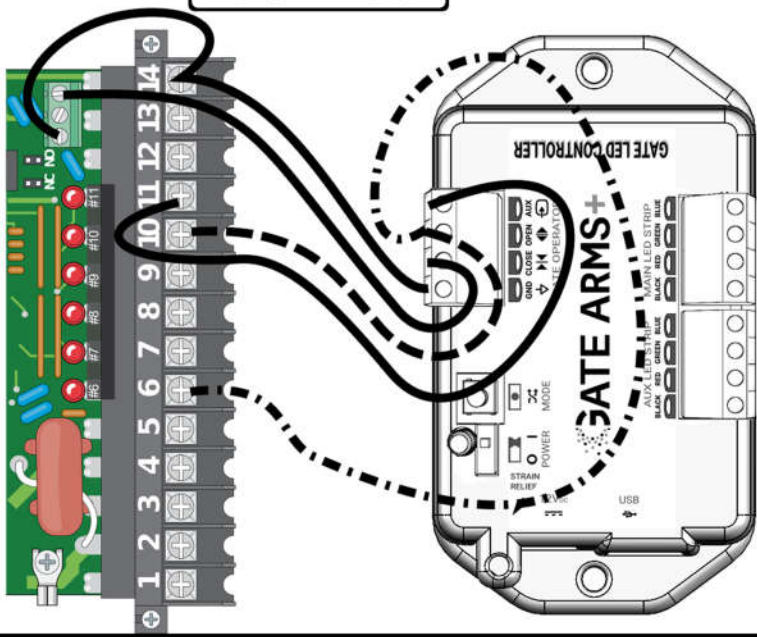
Connect OPEN to active DK open (6 or 10)

Do not connect AUX unless using Interlock.

PROGRAM THE LED CONTROLLER (Mode 2):

Turn power on.

Hold mode button for 4 sec. and release until status LED flashes once per second.

SOFTWARE CONFIG:

Firmware: Advanced

Wired To: Operator Inputs

Trigger Priority: Neither

Open Idles On: Voltage

Open Triggers On: Ground

Open Triggers When: Entering

Close Idles On: Ground

Close Triggers On: No Connect

Close Triggers When: Entering

IF INTERLOCK AT GATE:

Aux Role: Heavy Gate

Aux Idles On: Ground

Aux Triggers On: No Connect

Aux Triggers When: Entering

Amber Flashing: Enabled

HySecurity StrongArmPark DC Wiring

set operator User Relay 1 to Open Limit (3)
set operator User Relay 2 to Close Limit (1)

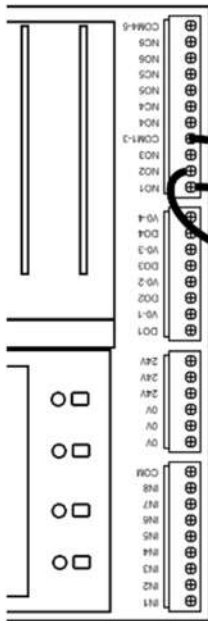*Do not connect AUX unless using Interlock.*

SOFTWARE CONFIG:

Wired to: Limit Switches

Open Idles On: No-Connection

Open Triggers On: Ground

Open Triggers When: Entering

Close Idles On: No-Connection

Close Triggers On: Ground

Close Triggers When: Entering

IF INTERLOCK AT GATE:

Aux Role: Heavy Gate

Aux Idles On: Voltage

Aux Triggers On: Ground

Aux Triggers When: Entering

Amber Flashing: Enabled

PROGRAM THE LED CONTROLLER (Mode 3):

Turn power on.

Hold mode button for 4 sec. and release. Repeat until status LED flashes rapidly.
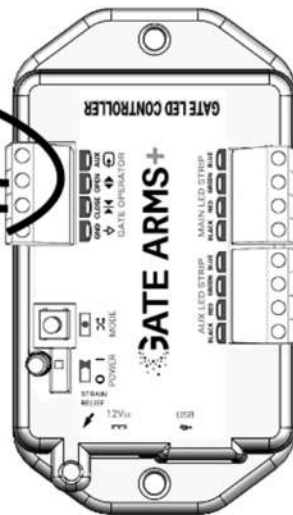

20
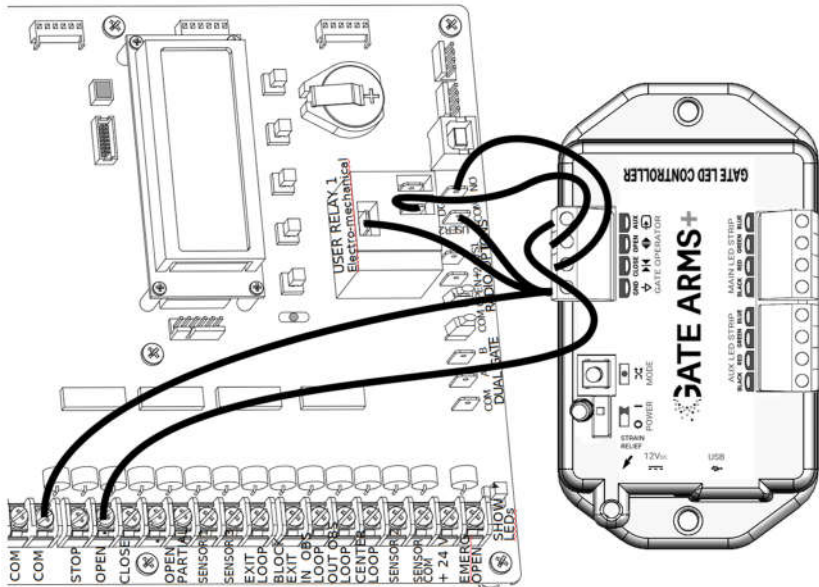
Magnetic-Automation MicroDrive Wiring

Use Operator User Relays NO1 & NO2.

Set operator relay NO1 to Fully-Open
Set operator relay NO2 to Fully-Closed

For MIB30/40 wiring, call us!

SOFTWARE CONFIG:

Firmware: Basic

Open Idles On: No-Connection

Open Triggers On: Ground

Open Triggers When: Entering

Close Idles On: No-Connection

Close Triggers On: Ground

Close Triggers When: Entering

PROGRAM THE LED CONTROLLER (Mode 3):

Turn power on.

Hold mode button for 4 sec. and release. Repeat until status LED flashes rapidly.

GATE LED CONTROLLER

GATE ARMS+

GATE OPERATOR

MAIN LED STRIP

AUX LED STRIP

POWER

MODE

STRAIN RELIEF

12Vᴅᴄ

USB

COM4-6
NO6
SO6
SO5
NO5
NO4
COM1-3
CO3
NO2
NO1

VO-4
DO4
VO-3
DO3
VO-2
DO2
VO-1
DO1

24V
24V
24V
0V
0V

COM
IN8
IN7
IN6
IN5
IN4
IN3
IN2
IN1

(LEFT BLANK INTENTIONALLY)

Licensed Under Patent #10364950
© 2020 Gate Arms+
All Rights Reserved