

QuickStart

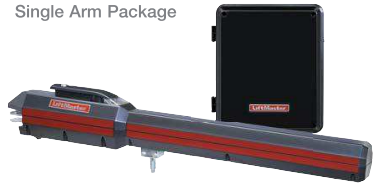
for single gate application

Model LA500

LA500DC
Primary 24 VDC Actuator Arm for
single swing gate applications

LA500DCS
Secondary 24 VDC Actuator Arm for
dual swing gate applications

LA500PKGU
Single Arm Package



LiftMaster

2016 UL 325 Gate Operators require use of LiftMaster external monitored entrapment protection devices.

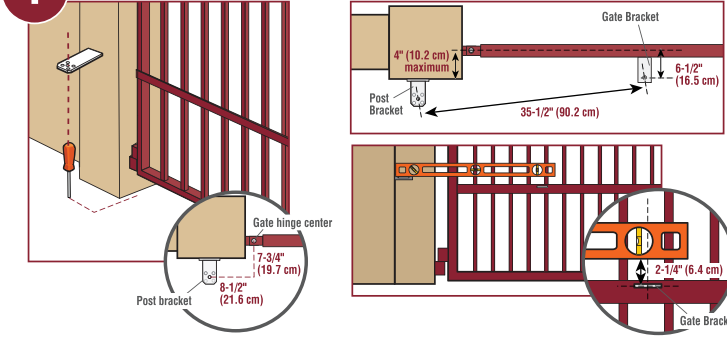


This QuickStart is intended to highlight a single gate application. Each application is unique and it is the responsibility of the purchaser, installer and end user to ensure that the total gate system is installed and operated properly. Refer to the installation manual for complete information regarding installation, testing, and programming.

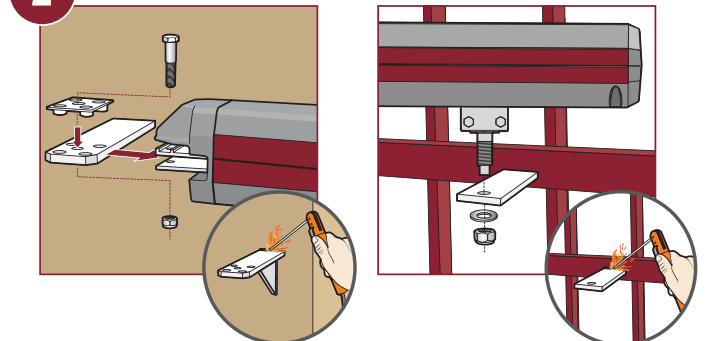
845 Larch Avenue
Elmhurst, Illinois 60126-1196
LiftMaster.com

INSTALLATION

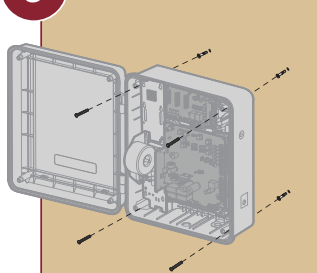
1 Position the brackets



2 Attach the brackets and operator



3 Install the Control Box

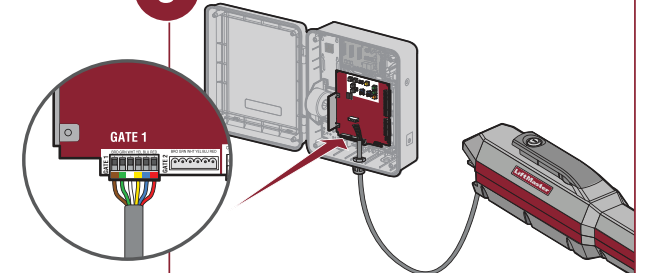


4 Earth Ground Rod

Install the earth ground rod within 3 feet (9 m) of the control box. The ground wire must be a single, whole piece of wire.

Check national and local codes for proper depth

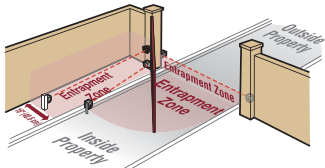
5 Connect the Operator Arm to the Control Box



WIRING AND ADJUSTMENTS

1 Install Monitored Entrapment Protection Device

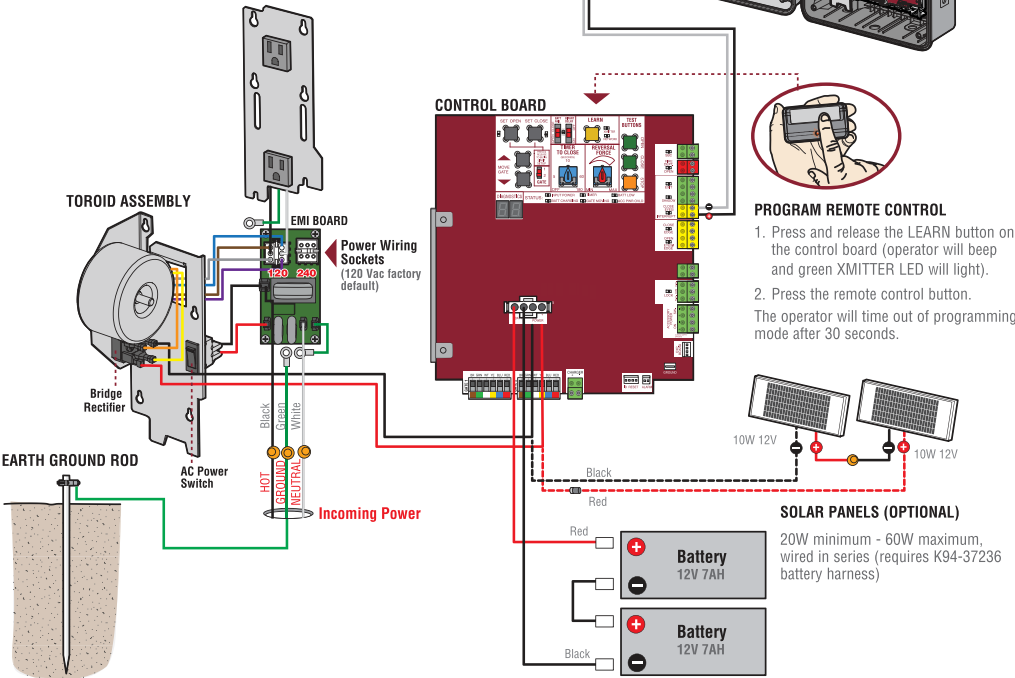
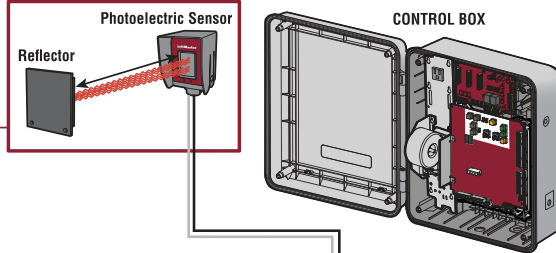
This operator contains an inherent (internal) entrapment protection system and **REQUIRES** the addition of a LiftMaster external monitored entrapment protection system (non-contact photoelectric sensor or contact edge sensor) for EACH entrapment zone prior to gate movement. System includes six monitored entrapment protection inputs to cover all entrapment zones. Refer to the manual for complete information.



If the distance between the open gate and the wall is less than 16" (40.6 cm) entrapment protection for this area is required. Entrapment protection is required for the area between the gate and the curb.

2 Connect Power Wiring and Earth Ground Rod

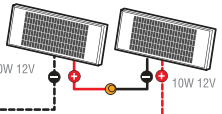
Turn off the AC power from the main power source circuit breaker. Connect the earth ground rod, incoming power, and batteries (see images below). The operator can be wired for 120 or 240 Vac by choosing the desired power wiring socket on the EMI board. Refer to your manual for complete wiring information.



PROGRAM REMOTE CONTROL

1. Press and release the LEARN button on the control board (operator will beep and green XMITTER LED will light).
2. Press the remote control button.

The operator will time out of programming mode after 30 seconds.



SOLAR PANELS (OPTIONAL)

20W minimum - 60W maximum, wired in series (requires K94-37236 battery harness)

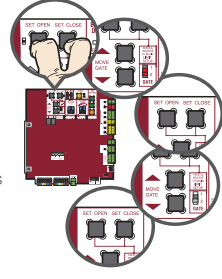


3 Set the Limits and Force

INITIAL LIMITS AND FORCE ADJUSTMENT

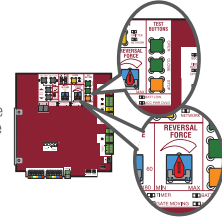
The gate **MUST** be attached to the operator before setting the limits and force. If a mistake is made while programming the limits press the reset button to start over.

1. Set the GATE switch to the 1 position.
2. Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
3. Press and hold the MOVE GATE buttons to move the gate to the open or close limit.
4. Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
5. Press and hold the MOVE GATE button to move the gate to the other limit.
6. Press and release the SET CLOSE or SET OPEN button depending on which limit is being set. The operator will exit limit setting mode.
7. Cycle the gate open and close using the TEST BUTTONS. This automatically sets the force.
8. For dual gates set the Gate switch to the 2 position and repeat steps 2-7.



FINE TUNE THE FORCE

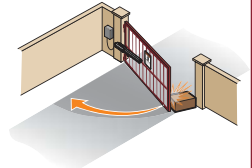
The REVERSAL FORCE DIAL on the control board is used for fine tuning the force in cases where wind or environmental changes may affect the gate travel. Based on the length and weight of the gate it may be necessary to make additional force adjustments. The force setting should be high enough that the gate will not reverse by itself nor cause nuisance interruptions, but low enough to prevent serious injury to a person. The force setting is the same for both the open and close gate directions.



1. Open and close the gate with the test buttons.
2. If the gate stops or reverses before reaching the fully open or closed position, increase the force by turning the force control slightly clockwise.
3. Perform the "Obstruction Test" after every force setting adjustment.

4 Perform the Obstruction Test

1. Open and close the gate with the test buttons, ensuring that the gate is stopping at the proper open and close limit positions.
2. Place a solid object between the open gate and a rigid structure. Ensure that the gate, the solid object, and the rigid structure can withstand the forces generated during this obstruction test.
3. Run the gate in the close direction. The gate should stop and reverse upon contact with the solid object. If the gate does not reverse off the solid object, reduce the force setting by turning the force control slightly counter-clockwise. The gate should have enough force to reach both the open and close limits, but **MUST** reverse after contact with a solid object.
4. Repeat the test for the open direction.



5 Installation Checklist

Check the following before leaving the site:

- Are all the wiring and connections tightly connected?
- Is the AC power on? If the operator is left running on battery only, it will drain the battery and will result in a service call.
- Check the batteries and battery connections. Make sure there are two 12V batteries. Replace batteries if depleted to less than 20V.
- Make sure the antenna is in place when using wireless dual gates or on-board transmitters. Operator will be intermittent at times without it.
- Remove the protective anti-scratch film from the photoelectric sensors. Leaving the film on can result in poor sensitivity as the film decays/yellows/peels.
- Confirm whether the site should be fail safe or secure and set the operator accordingly.

Confirm operation of the following (if applicable):

- Entrapment protection devices
- Loops
- TES relay
- SOS/emergency transponders
- Check operation of ALL legacy receivers using the MAX transmitter
- Timer-to-Close setting
- Quick close setting
- Anti-tailgate setting