

QuickStart

for single gate/door application

Model HCTDCU

HCTDCU
Motor Unit

HCT08
8 Foot Rail

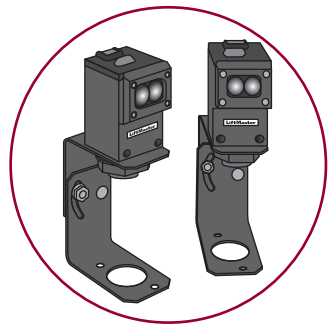
HCT10
10 Foot Rail

HCT12
12 Foot Rail



LiftMaster
ELITE SERIES

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



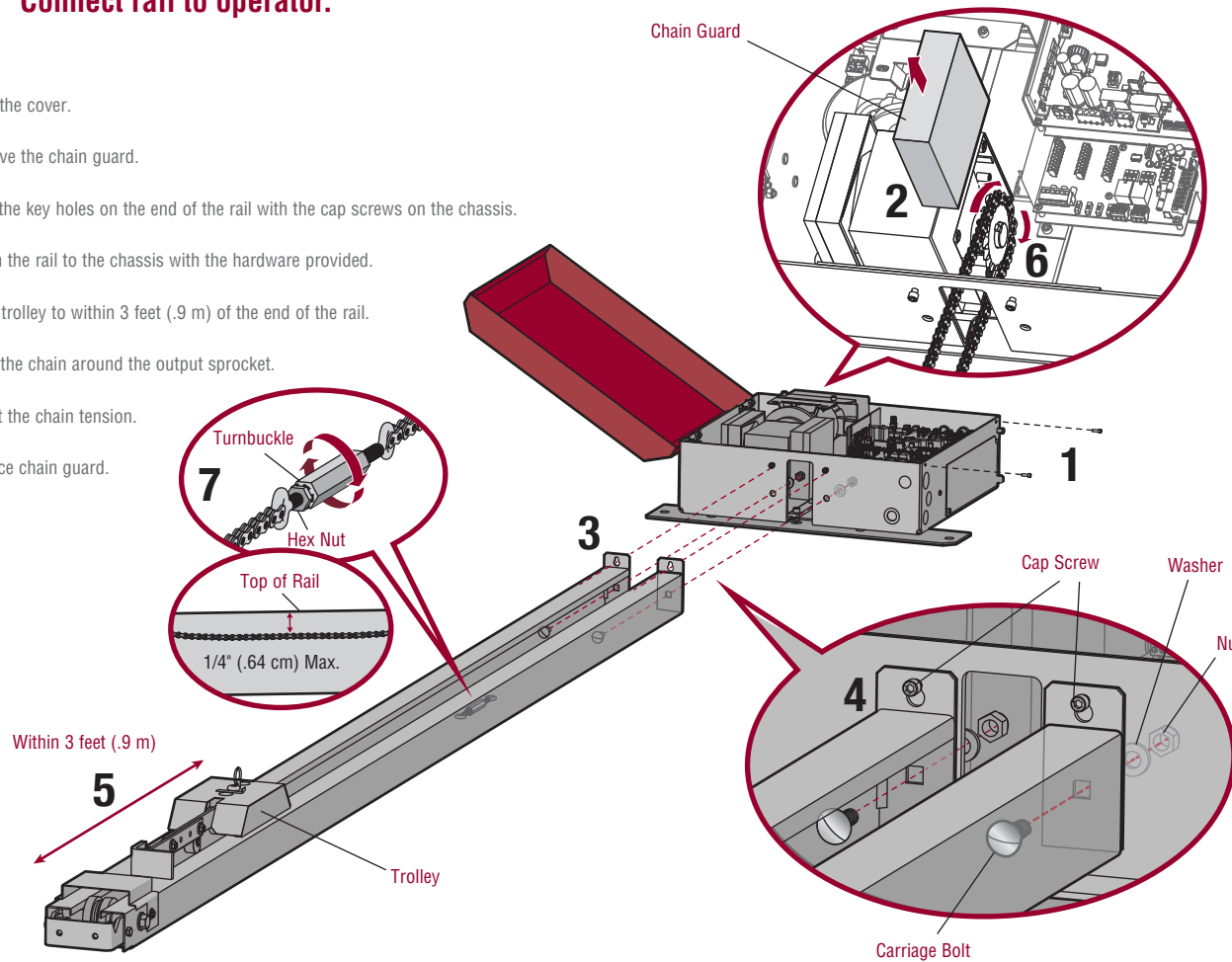
This QuickStart is intended to highlight a single gate/door application. Each application is unique and it is the responsibility of the purchaser, installer and end user to ensure that the total gate/door system is installed and operated properly. Refer to the installation manual for complete information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

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

INSTALLATION

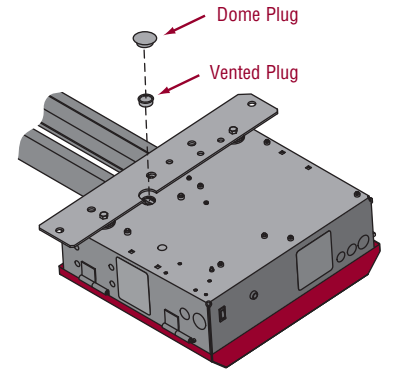
1 Connect rail to operator.

- 1 Open the cover.
- 2 Remove the chain guard.
- 3 Align the key holes on the end of the rail with the cap screws on the chassis.
- 4 Attach the rail to the chassis with the hardware provided.
- 5 Move trolley to within 3 feet (.9 m) of the end of the rail.
- 6 Wrap the chain around the output sprocket.
- 7 Adjust the chain tension.
- 8 Replace chain guard.



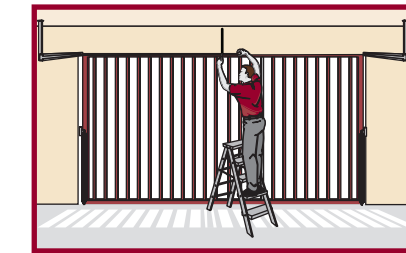
2 Install vented plug.

- 1 Remove the dome plug from the operator chassis.
- 2 Remove the solid plug in the gear reducer and replace it with the vented plug (provided in bag with manual).
- 3 Tighten the vented plug with a socket or Allen wrench.
- 4 Re-insert the dome plug.



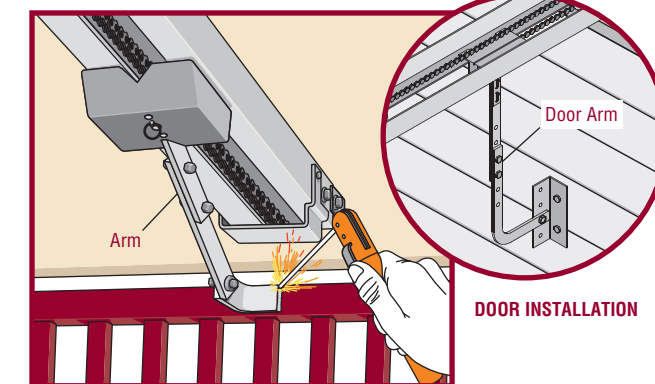
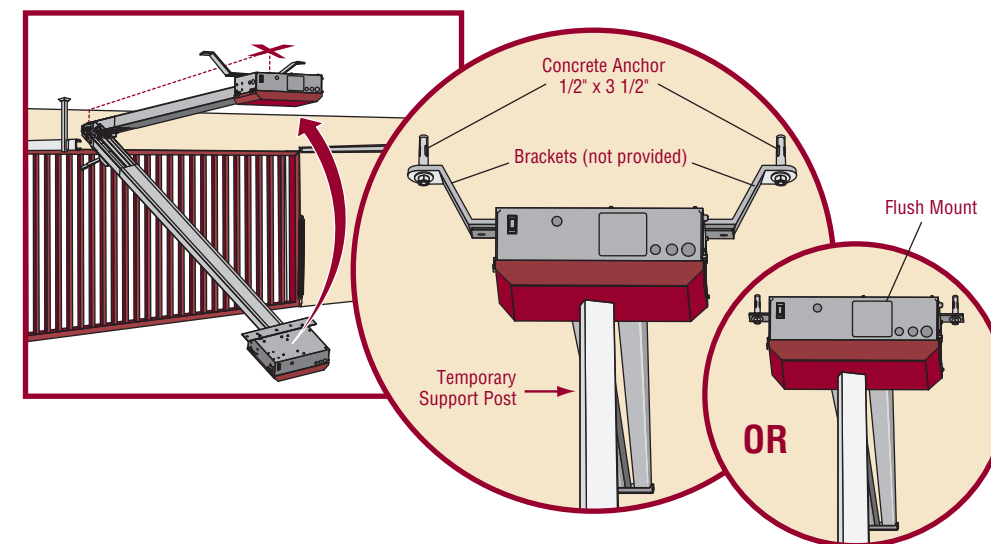
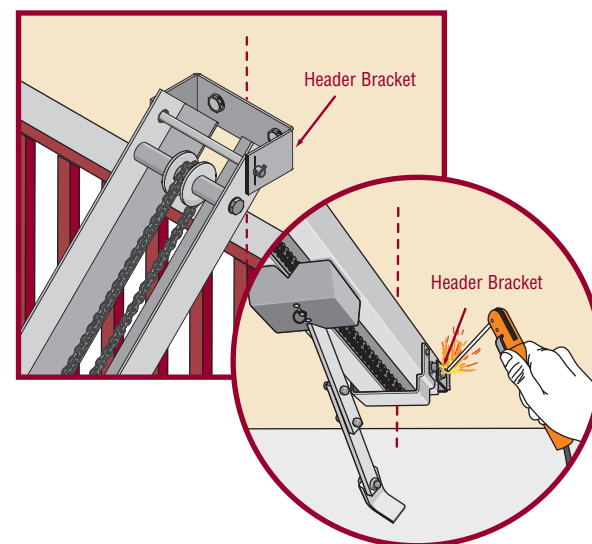
3 Determine location for operator.

- 1 With the gate/door closed, mark the center.
- 2 Open the gate/door and mark the center point on the ceiling.



4 Mount the operator.

- 1 Center the header bracket in the opening and bolt or weld the header bracket to the wall.
- 2 Lift the operator and align with center mark on ceiling. Bolt the operator to the ceiling.
- 3 Bolt or weld arm to gate/door.

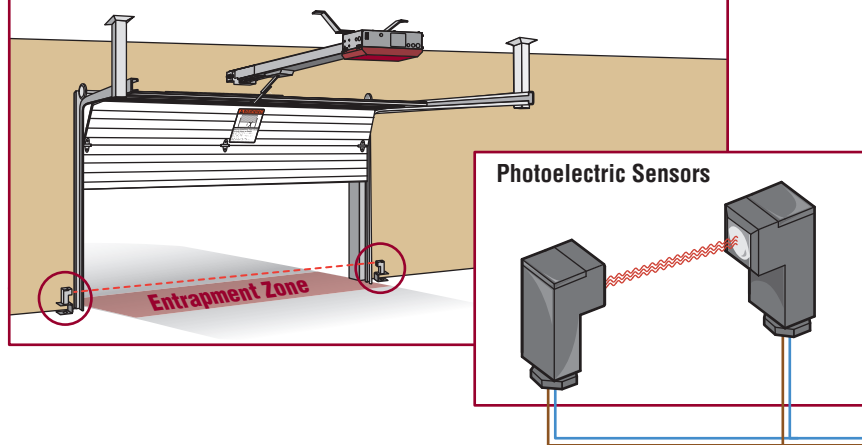


DOOR INSTALLATION

WIRING AND ADJUSTMENTS

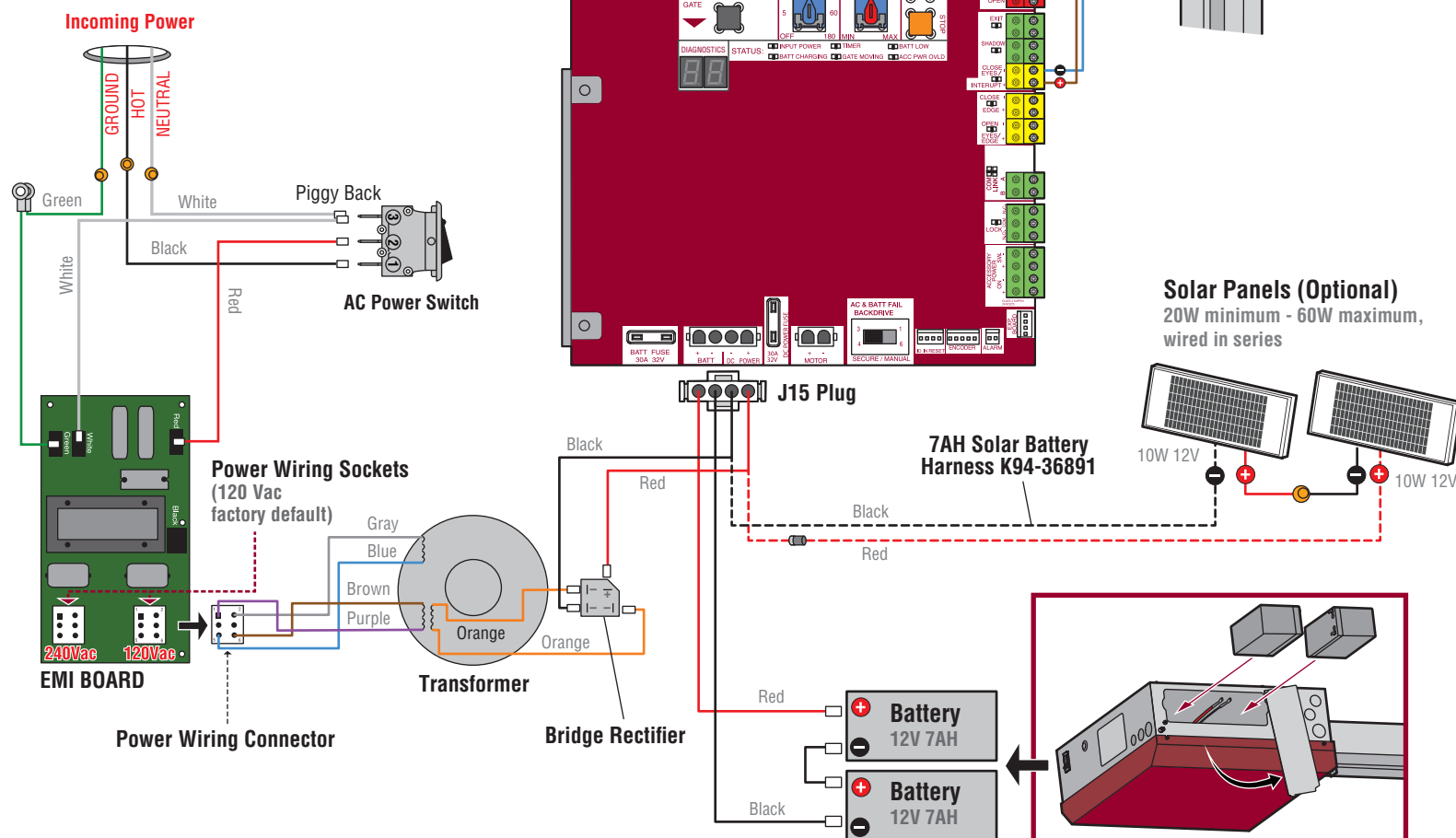
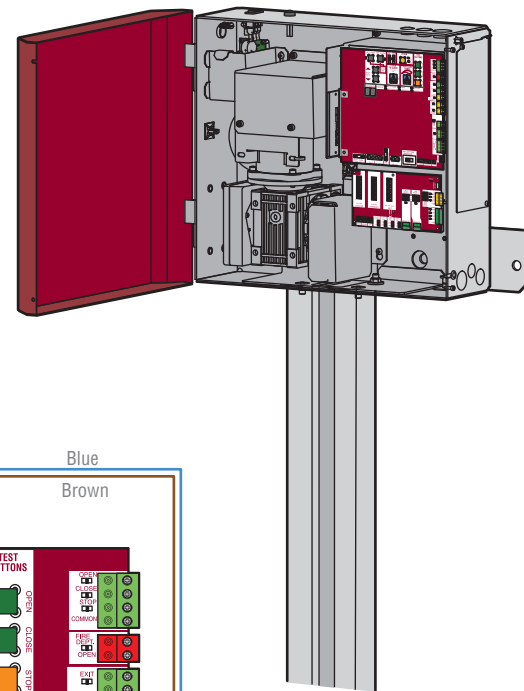
1 Install Monitored Entrapment Protection Device

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 capable of covering all entrapment zones. Refer to the manual for complete information.



2 Connect Power Wiring and Earth Ground Rod

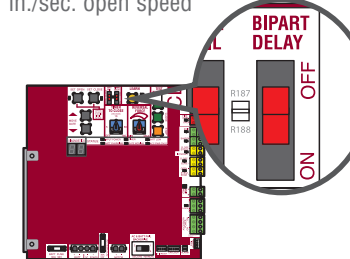
Turn off the AC power from the main power source circuit breaker. Connect the earth ground rod, incoming power, and batteries (see images below). The operator can be wired for 120 or 240 Vac by choosing the desired power wiring socket on the EMI board. Refer to your manual for complete wiring information.



3 Set Open Speed

The HCTDCU provides a high speed open option to help flow in high traffic areas. Select the open speed using the BIPART DELAY switch.

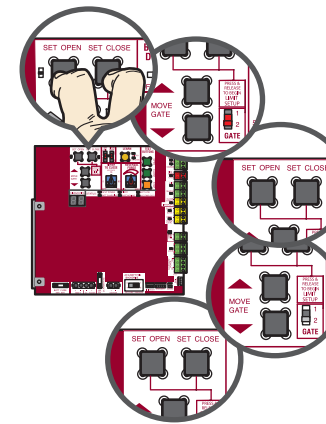
BIPART DELAY OFF (default) = 8 in./sec. open speed
BIPART DELAY ON (fast) = 11 in./sec. open speed



4 Set the Limits and Force

INITIAL LIMITS AND FORCE ADJUSTMENT

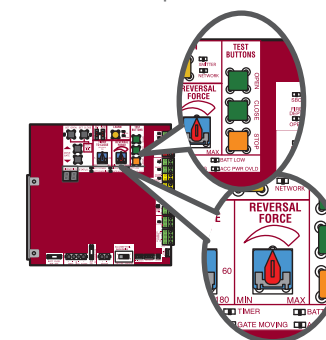
- Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- Press and hold one of the MOVE GATE buttons to move the gate/door to the open or close limit.
- Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- Press and hold one of the MOVE GATE buttons to move the gate/door to the other limit.
- Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- Cycle the gate/door open and close. This automatically sets the force.



FINE TUNE THE FORCE

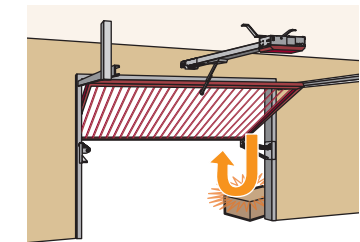
The REVERSAL FORCE DIAL on the control board is used for fine tuning the force in cases where wind or environmental changes may affect the gate/door travel. Based on the length and weight of the gate/door it may be necessary to make additional force adjustments. The force setting should be high enough that the gate/door 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/door directions.

- Open and close the gate/door with the TEST BUTTONS.
- If the gate/door stops or reverses before reaching the fully open or closed position, increase the force by turning the force control slightly clockwise.
- Perform the "Obstruction Test" after every force setting adjustment.



5 Perform the Obstruction Test

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



6 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.
- 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