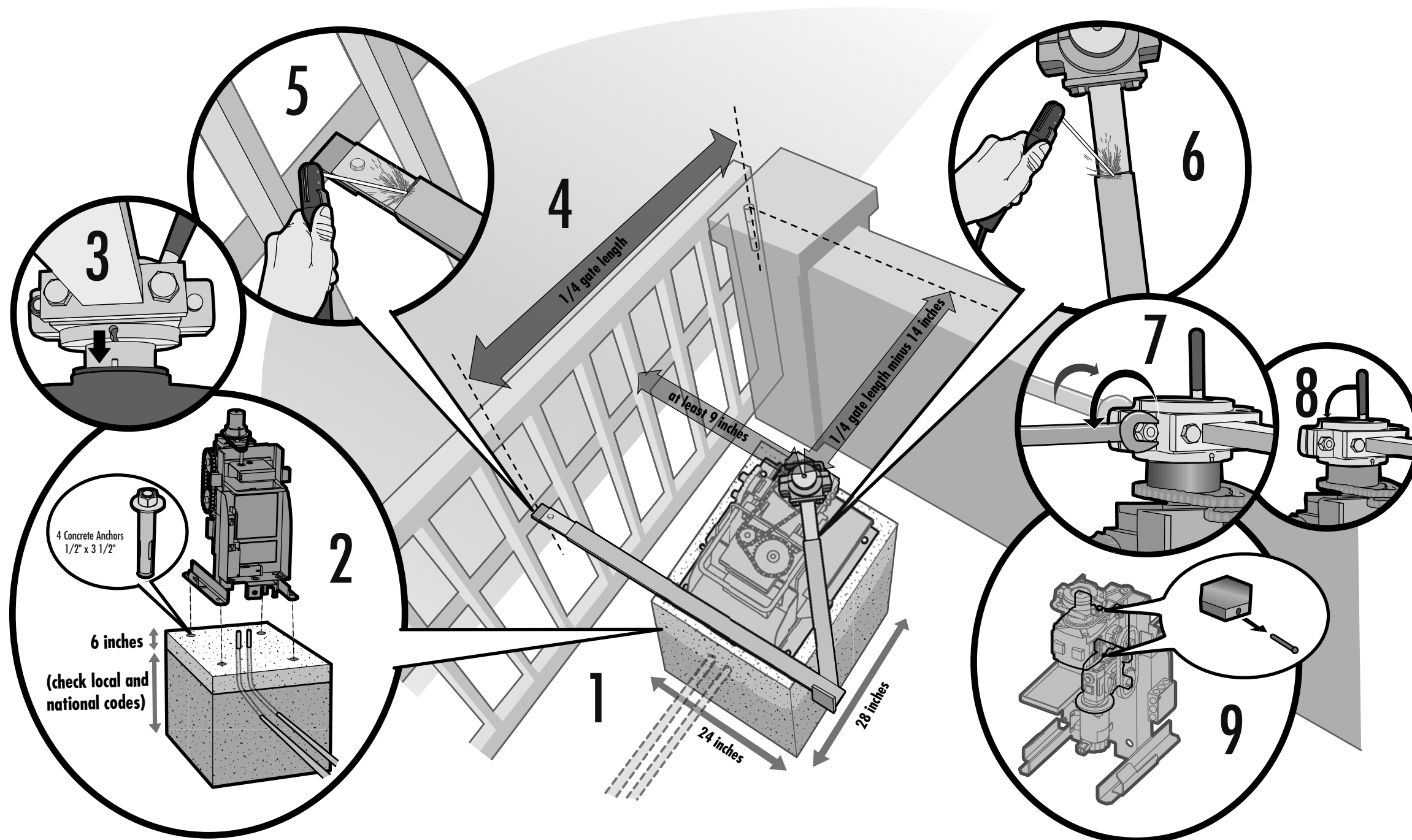


QuickStart for single gate applications

This QuickStart is intended to highlight a single right-hand 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.

INSTALLATION

- 1 Install the concrete pad and conduit.
- 2 Attach the operator to the concrete pad.
- 3 Position the operator arm onto the output shaft so that the pin slides into the slot.
- 4 Position the gate bracket on the gate (1/4 the length of the gate from the gate hinge center). Ensure the arm is level.
- 5 Weld the gate bracket and long arm section in this position.
- 6 Weld the short arm section.
- 7 Secure the operator arm to the output shaft.
- 8 Tighten the handle.
- 9 Remove the pin from the vent plug on both the top and bottom gear boxes.

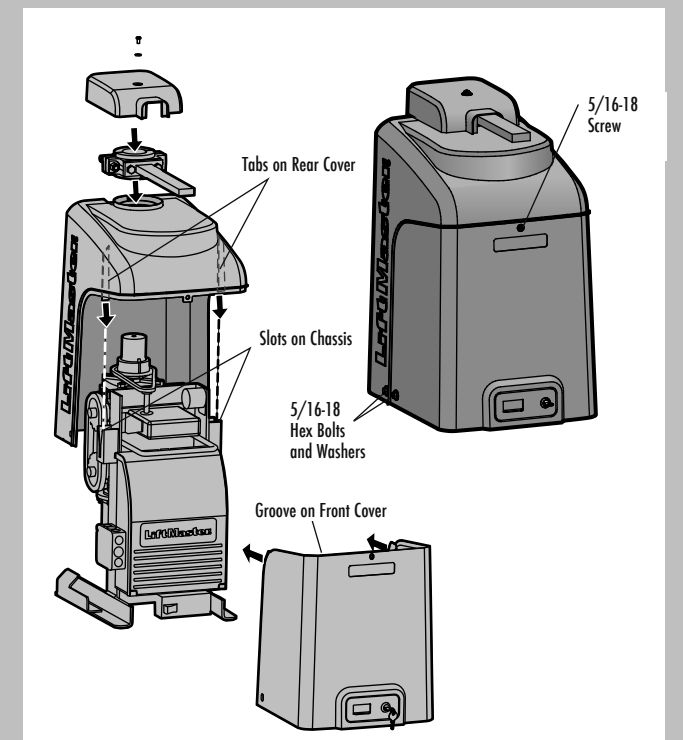


MODEL CSW24V™ & CSW24VH™

LiftMaster
ELITE SERIES™

INSTALL THE COVER

- 1 Remove the operator arm from the output shaft by releasing the handle.
- 2 Align the tabs on the rear cover with the slots on the chassis and place the cover over the operator.
- 3 Secure both sides of the rear cover to the chassis with two 5/16-18 hex bolts and washers.
- 4 Reattach the operator arm to the output shaft (making sure the pin fits into the slot) and secure by pushing the handle down.
- 5 Place the operator arm cover over the operator arm and secure.
- 6 Align the front cover with the back cover, making sure the grooves line up.
- 7 Secure the front cover to the chassis with two 5/16-18 hex bolts and washers.
- 8 Secure the front cover to the rear cover using the 5/16-18 screw.



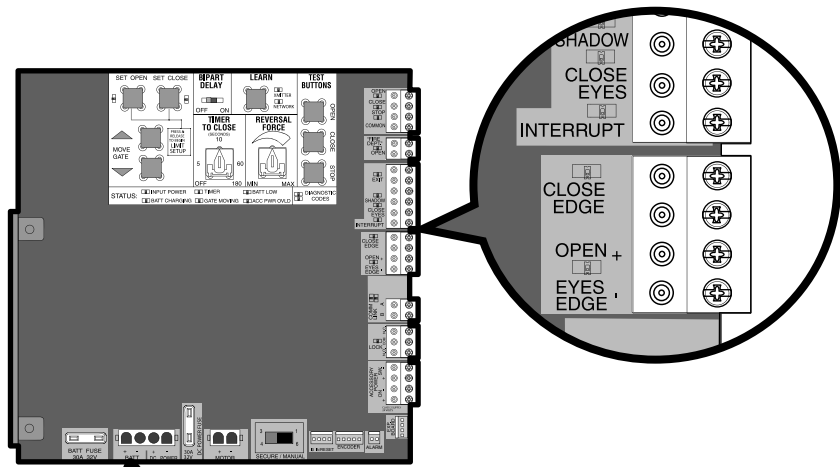
WIRING

⚠ WARNING

- To protect against fire and electrocution:
- DISCONNECT power and battery BEFORE installing or servicing operator.
 - For continued protection against fire:
 - Replace ONLY with fuse of same type and rating.

4 CONNECT BATTERIES

- 1 Connect the battery wires to the J15 plug on the control board.
- 2 Turn ON AC power to the operator.
- 3 Turn ON the AC power switch on the operator.



1 WIRE THE ENTRAPMENT PROTECTION DEVICES

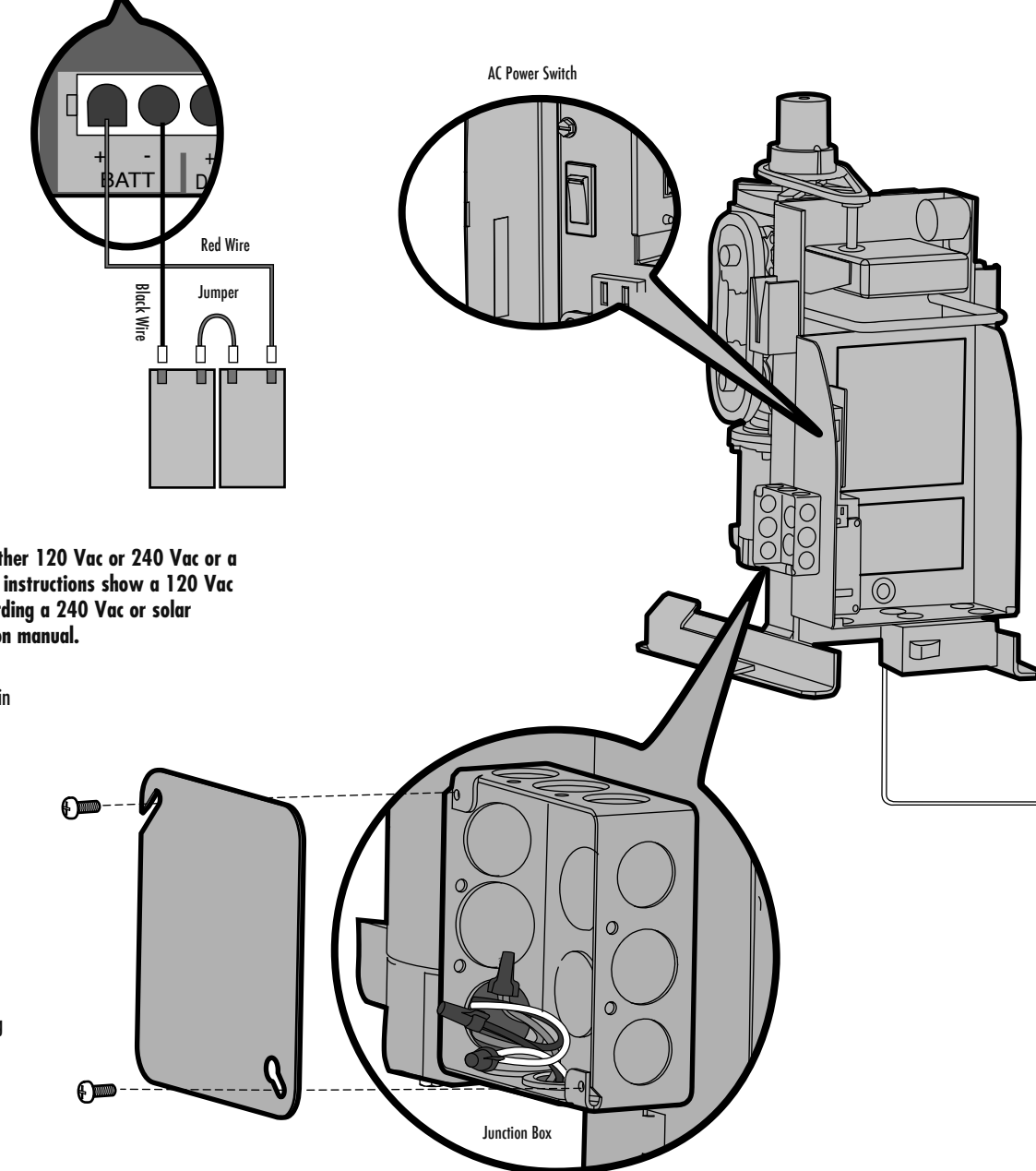
Connect the entrapment protection device to the EYES EDGE terminal on the control board.

- Close Photoelectric Sensor Entrapment Protection: Connect wires from the photoelectric sensors to the Inputs on the CLOSE EYES/INTERRUPT terminal.
- Close Edge Entrapment Protection: Connect wires from the entrapment protection device to the Inputs on the CLOSE EDGE terminal.
- Open Entrapment Protection: Connect wires from the entrapment protection device to the Inputs on the OPEN EYES/EDGE terminal.

3 POWER WIRING

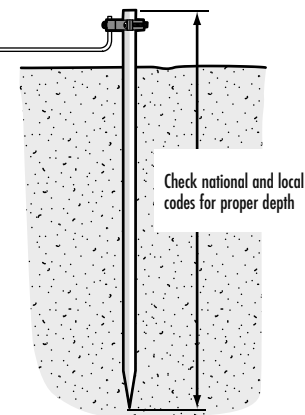
This operator can be wired for either 120 Vac or 240 Vac or a solar panel (not provided). These instructions show a 120 Vac application. For information regarding a 240 Vac or solar application refer to the installation manual.

- 1 Turn off the AC power from the main power source circuit breaker.
- 2 Run the AC power wires to the operator.
- 3 Connect the green wire to the earth ground rod and AC ground using a wire nut. **NOTE:** The earth ground rod can be grounded to the chassis.
- 4 Connect the white wire to NEUTRAL using a wire nut.
- 5 Connect the black wire to HOT using a wire nut.



2 EARTH GROUND ROD

- 1 Install the earth ground rod within 3 feet of the operator.
- 2 Run wire from the earth ground rod to the operator.



INITIAL LIMITS AND FORCE ADJUSTMENT

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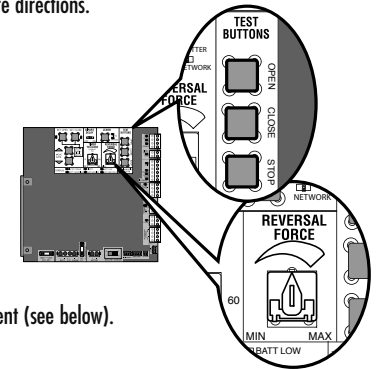
- 1 Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- 2 Press and hold one of the MOVE GATE buttons to move the gate to the open or close limit.
- 3 Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- 4 Press and hold one of the MOVE GATE button to move the gate to the other limit.
- 5 Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- 6 Cycle the gate open and close. This automatically sets the force. When limits are set properly the operator will automatically exit limit setting mode.

FINE TUNE THE FORCE

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The FORCE DIAL on the control board is used for fine tuning the force. 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 (see below).



OBSTRUCTION TEST

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- 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.

PROGRAMMING

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- 1 Press and release the LEARN button (operator will beep and green XMITTER LED will light).
- 2 Press the remote control button for the desired function. The operator will automatically exit learn mode (operator will beep and green XMITTER LED will go out) if programming is successful.

