

SECTION 08 71 13.10

AUTOMATIC DOOR OPERATORS - RESIDENTIAL



Display hidden notes to specifier by using "Tools"/"Options"/"Display"/"Hidden Text".

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Residential Automatic Garage Door Operators.
  - 1. Belt drive garage door operators (LiftMaster Models 8550W).

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: For installation and requirements for blocking and nailers.
- B. Section 16050 - Basic Electrical Materials and Methods: For installation and requirements for electrical connections.

1.3 REFERENCES

- A. Underwriters Laboratories (UL) - UL Listed products.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
  - 4. Cleaning methods.
- C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Schedule delivery of garage door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.

1.6 WARRANTY

- A. Manufacturer's Warranty. Provide manufacturer's standard warranty for each product. Refer to specific warranty information under each model in Part 2 of this section.

PART 2 PRODUCTS

## 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: LiftMaster; 300 Windsor Drive; Oak Brook, IL 60523. Toll-Free: 800.282.6225. Email: specs@LiftMaster.com Web: LiftMaster.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

## 2.2 BELT DRIVE GARAGE DOOR OPERATORS

- A. Belt Drive Garage Door Operator: LiftMaster 8550W DC Battery Backup Belt Drive Wi-Fi Garage Door Operator.
  - 1. Motor:
    - a. 800 Newtons.
    - b. 12V DC motor.
    - c. RPM: 53.
    - d. Thermal Protection: Automatic.
    - e. Lubrication: Permanent.
  - 2. Drive Mechanism:
    - a. Drive Means: Full reinforced drive belt.
    - b. Reduction Means: Gear 63:1.
    - c. Door Linkage: Adjustable door arm.
  - 3. Logic Type:
    - a. Solid-state microcontroller with built-in surge suppressor.
  - 4. Dimensions:
    - a. Installed Length: 125 inches (3175 mm), for 7-foot (2133 mm) door opening.
    - b. Maximum Door Opening: 7 feet 6 inches (2210 mm), opening up to 10 feet (3048 mm) with optional rail.
    - c. Headroom Clearance Required: 2 inches (51 mm).
  - 5. Shipping Weight:
    - a. Head: 18.1 pounds (6.8 kg).
    - b. Rail (Belt): 17 pounds (7.7 kg).
    - c. Battery Backup: 4 pounds (1.81 kg).
  - 6. Adjustments:
    - a. Auto-Force.
    - b. Electronic Limit Settings.
  - 7. Travel Rate:
    - a. 9 inches (229 mm) per second (up direction).
    - b. 6-1/2 inches (165 mm) per second (down direction).
  - 8. Electrical:
    - a. Voltage: 120V AC, 60 Hz.
    - b. Wattage: 524W (including lights).
    - c. Current Rating: 2.7A.
    - d. UL Listed.
    - e. Length of 3-Prong Line Cord: 6 feet (1829 mm).
    - f. Standby Power: 1W (approximately) (at down limit worklights off).
    - g. Enhanced CFL (Compact Fluorescent) compatible, max 26 watts.
  - 9. Security+ 2.0 Radio Controls:
    - a. LiftMaster 893MAX 3-Button Remote Control.
    - b. Coding System: Smart receiver code button and indicator light.
    - c. Operating Range: 200 feet (61 m) (approximately).
    - d. Operating Temperature: -40 degrees F (-40 degrees C) to 150 degrees F (65 degrees C).
    - e. Remote Control Radio Frequency: 310, 315 and 390 MHz tri-band.

- f. Radio Receiver Frequency: Frequency agile on 310, 315 and 390 MHz.
- g. Security+ 2.0 anti-burglary coding.
- 10. MyQ Powered Radio:
  - a. 902 to 928 MHz.
  - b. 50-channel FHSS (Frequency Hopping Spread Spectrum).
  - c. Provides two-way communication from garage door operator and MyQ Accessories.
  - d. Enables remote closing of garage door with key MyQ Accessories.
  - e. Enables monitoring and control of garage door operators and lighting controls via Wi-Fi-enabled smartphone, table or computer (sold separately).
- 11. Security+ 2.0 Encrypted Controls:
  - a. LiftMaster 880LMW Smart Control Panel.
  - b. LCD Screen: Time, temperature, Wi-Fi setup and status display.
  - c. Maintenance Alert System.
  - d. Timer-to-Close.
  - e. Light Controls: Turns operator lights on/off.
  - f. Program remote controls, keypads, Wi-Fi garage door openers and MyQ Accessories.
  - g. Lock Mode: Locks out outside remote controls.
  - h. Motion Detecting: Hands-free operator lights on.
- 12. Lighting:
  - a. Number of Bulbs: 2.
  - b. Maximum Wattage: 100 x 2.
  - c. Adjustable time, solid-state delay (1.5 to 4.5 minutes).
  - d. Enhanced CFL (Compact Fluorescent) compatible.
  - e. In Battery Backup Mode: Disabled.
- 13. Materials:
  - a. Chassis: Steel.
  - b. Chassis Cover: Steel.
  - c. Rail: Solid steel T.
  - d. Trolley: Steel.
- 14. Convenience/Safety Features:
  - a. The Protector System safety reversing sensors.
  - b. Alert-2-Close unattended close operation with select accessories (must not be used with one-piece door).
  - c. Hands-free operator lights on.
  - d. Emergency/quick release.
  - e. Automatic trolley reconnect.
  - f. Ventilation/pet opening.
  - g. Down safety reverse.
  - h. Up safety stop.
  - i. Door open/beam obstructed/lights on.
  - j. Maintenance Alert System.
  - k. Integrated Battery Backup.
  - l. PosiLock secure lock system.
  - m. Slow start/soft stop.
  - n. Automatic Garage Door Lock Capable: LiftMaster 841LM will automatically engage / disengage the lock as the opener is activated.
- 15. Warranty:
  - a. Lifetime motor and belt.
  - b. 5-year parts.
  - c. 1-year battery (LiftMaster Model 485LM).

## PART 3 EXECUTION

### 3.1 EXAMINATION AND PREPARATION

- A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
- B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

### 3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained.

### 3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch up, repair or replace damaged products before Substantial Completion.

END OF SECTION