

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. Jackshaft garage door operators (LiftMaster Model 8500W).

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 JACKSHAFT GARAGE DOOR OPERATOR

- A. Jackshaft Garage Door Operator: LiftMaster 8500W DC Battery Backup Wall Mount Wi-Fi Garage Door Operator. Direct drive operator for garages with very low, cathedral or obstructed ceilings.
 - 1. Motor:
 - a. Voltage: 12V DC.
 - b. Thermal Protection: Automatic.
 - c. Lubrication: Permanent.
 - 2. Drive Mechanism:
 - a. Drive Means: Internal chain and sprocket.
 - b. Reduction Means: Gear 63:1.
 - 3. Logic Type:
 - a. Solid-state microcontroller with built-in surge suppressor.
 - 4. Dimensions:
 - a. Garage Door Operator Dimensions: 7-7/8 inches D x 21-1/2 inches H x 7-1/2 inches W (201 mm D x 546 mm H x 191 mm W).
 - b. Maximum Door Size: 14 feet (4267 mm) tall. Total of 180 square feet (16.7 square meters).
 - c. Headroom Clearance Required: 3 inches (77 mm) from center of torsion bar.
 - 5. Shipping Weight: 38 pounds (17 kg).
 - 6. Adjustments:
 - a. Auto-Force.
 - b. Electronic Limit Settings.
 - 7. Travel Rate:
 - a. 8-3/5 inches (218 mm) per second (approximately).
 - 8. Electrical:
 - a. Voltage: 120V AC, 60 Hz.
 - b. Wattage: 120W.
 - c. Current Rating: 1.5A.
 - d. UL Listed.
 - e. Length of 3-Prong Line Cord: 6 feet (1829 mm).
 - 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: -31 degrees F (-35 degrees C) to 149 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.
 - 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.

- a. 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. MyQ Remote LED Lighting:
 - a. Remote control lighting fixture can be placed anywhere in garage.
 - b. LED Light
 - c. 1500 Lumens
 - d. Can be learned to opener, remote or MyQ
 - e. Adjustable time, solid-state delay (1.5 to 4.5 minutes).
- 13. Materials:
 - a. Chassis: Steel.
 - b. Cover: Plastic.
- 14. Convenience/Safety Features:
 - a. The Protector System safety reversing sensors.
 - b. Battery Backup (battery included)
 - c. Alert-2-Close unattended close operation with select accessories (must not be used with one-piece door).
 - d. Hands-free worklights on.
 - e. Emergency/quick release.
 - f. Ventilation/pet opening.
 - g. Down safety reverse.
 - h. Up safety stop.
 - i. Door open/beam obstructed/lights on.
 - j. Slow start/soft stop.
- 15. Installation Aids:

*Provide Alternate Mounting Kit: LiftMaster Model 480LM for obstructions/low headroom lowers operator by 6 inches (152 mm).
- 16. Warranty:
 - a. Lifetime motor.
 - 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