

SECTION 08730

AUTOMATIC DOOR OPERATORS

RESIDENTIAL GARAGE DOOR OPENER
LIFTMASTER ELITE SERIES MODEL 3595



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Trolley-type door operators for standard lift sectional doors.

1.2 RELATED SECTIONS

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

1.3 REFERENCES

- A. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.
- B. UL325 – Safety Standard for Door, Drapery, Gate, Louver, and Window Operators/Systems

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.

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 door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.

- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 WARRANTY

- A. Manufacturer's lifetime motor warranty. Five year warranty on all other parts.
- B. Manufacturer is an ISO9001/2000 Certified Company.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc.; 845 Larch Avenue, Elmhurst, IL 60126-1196. ASD. Tel: (800) 282-6225. Fax: (630) 516-8412. Email: www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TROLLEY OPERATED GARAGE DOOR OPERATOR

- A. Residential 3/4 HP Chain Drive Operator: For carriage house or custom-designed solid-wood doors, with anti-burglary Security+ rolling code radio receiver, door travel rate speed (2-speed option, dual sprocket) of approximately 7" per second 8-tooth, and 5.8" per second 6-tooth; Operating Temperature: -40 degrees to 150 degrees F. Installed Length of 125'. Max. Door Opening – 7'6".
- B. Model 3595; Chamberlain Elite Series, Elmhurst, IL.
 - 1. Electric Operator: Model 3595 heavy-duty chain drive assembly, complete with AC electric motor, factory-prewired motor controls, solid state microcontroller with built-in surge suppressor, UL and CSA listed self-monitoring infrared sensing device integral to operator system and accessories required for proper operation.
 - a. Adjustments: Force – Internal Up and Down; Limit: Internal/Electronic.
 - b. Electric Motor: 3/4 HP, 1,625 RPM, 120 VAC, 60 Hz, 540 Watts, with automatic motor thermal protection. Reduction Means: Gear 16:1. Permanent lubrication. Motor starter shall be of solid-state circuitry and enclosed in a NEMA 1 enclosure. Line Cord: 6' with a 3-prong plug. UL Listed. Variable Speed soft start/soft stop. Door Linkage: Adjustable Door Arm. Logic Type: Solid-State Microcontroller with built-in Surge Suppressor.
 - c. Radio Receiver: LiftMaster 315MHz on-board, single-channel Smart Receiver with Code Button and Indicator Light. Equipped to accept Security+ Rolling Code Technology Model 373P Premium 3-Button Remote Control transmitter. Operating Range: approx. 150'. HOMELINK in-vehicle universal remote control compatible.
 - 2. Self-Monitoring Safety Operation Application (Protector System): Operator shall include automatic safety reverse (on close) / automatic door stop (on open) and CPS self-monitoring infrared safety devices. Power Failure/Quick Release Handle and Ventilation/Pet Opening functions are standard equipment. Equipped with Automatic Trolley Reconnect. Includes two 100 Watt light bulbs with adjustable length of light delay (solid state control). UL Listed Product.

3. Materials: Steel with chassis support bracket, solid-steel i-beam rail, and steel trolley.
4. Security: PosiLock anti-intruder lock system when door is closed
5. Optional Accessories:
 - a. Wireless Keyless Entry with Security+ (model 377LM).
 - b. Garage Door Open/Close Monitor (model 915LM).
 - c. Wireless Control Panel (model 378LM).
 - d. Laser Garage Parking Assist (model 975LM).
 - e. Mini 3-Button Remote Control with Security+ (model 370LM).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the Methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

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

END OF SECTION