

§ 1211.14

door sensor system and associated components shall withstand a total of 9 cycles of mechanical operation without failure with the force applied as follows:

(i) At the center at points one, three, and five feet from the floor,

(ii) Within 1 foot of the end of the door, at points one, three, and five feet from the floor,

(iii) Within 1 foot of the other end of the door at points one, three, and five feet from the floor.

(3) The cycles are not required to be consecutive. Continuous operation of the motor without cooling is not required.

(b) *Adjustment of door weight.* (1) With the door at the point and at the weight determined by the tests of paragraphs (a)(2) and (b)(2) of this section to be the most severe, the door sensor and associated components shall withstand 50 cycles of operation without failure.

(2) At the point determined by the test in paragraphs (a)(1) and (a)(2) of this section to be the most severe, weight is to be added to the door in 5.0 pound (2.26 Kg) increments and the test repeated until a total of 15.0 pounds (66.72 N) has been added to the door. Before performing each test cycle, the door is to be cycled 2 times to update the profile. Similarly, starting from normal weight plus 15.0 pounds, the test is to be repeated by subtracting weight in 5.0 pound increments until a total of 15.0 pounds has been subtracted from the door.

[65 FR 70659, Nov. 27, 2000]

§ 1211.14 Instruction manual.

(a) *General.* (1) A residential garage door operator shall be provided with an instruction manual. The instruction manual shall give complete instructions for the installation, operation, and user maintenance of the operator.

(2) Instructions that clearly detail installation and adjustment procedures required to effect proper operation of the safety means provided shall be provided with each door operator.

(3) A residential garage door or door operator shall be provided with complete and specific instructions for the correct adjustment of the control mechanism and the need for periodic checking and, if needed, adjustment of

16 CFR Ch. II (1–1–04 Edition)

the control mechanism so as to maintain satisfactory operation of the door.

(4) The instruction manual shall include the important instructions specified in paragraphs (b)(1) and (2) of this section. All required text shall be legible and contrast with the background. Upper case letters of required text shall be no less than $\frac{5}{64}$ inch (2.0 mm) high and lower case letters shall be no less than $\frac{1}{16}$ inch (1.6 mm) high. Heading such as “Important Installation Instructions,” “Important Safety Instructions,” “Save These Instructions” and the words “Warning—To reduce the risk of severe injury or death to persons:” shall be in letters no less than $\frac{3}{16}$ inch (4.8 mm) high.

(5) The instructions listed in paragraphs 1211.13(b)(1) and (2) shall be in the exact words specified or shall be in equally definitive terminology to those specified. No substitutes shall be used for the word “Warning.” The items may be numbered. The first and last items specified in paragraph (b)(2) of this section shall be first and last respectively. Other important and precautionary items considered appropriate by the manufacturer may be inserted.

(6) The instructions listed in paragraph (b)(1) of this section shall be located immediately prior to the installation instructions. The instructions listed in paragraph (b)(2) of this section shall be located immediately prior to user operation and maintenance instructions. In each case, the instructions shall be separate in format from other detailed instructions related to installation, operation and maintenance of the operator. All instructions, except installation instructions, shall be a permanent part of the manual(s).

(b) *Specific required instructions.* (1) The Installation Instructions shall include the following instructions:

Important Installation Instructions

Warning—To reduce the risk of severe injury or death:

1. Read and follow all Installation Instructions.

2. Install only a properly balanced garage door. An improperly balanced door could cause severe injury. Have a qualified service person make repairs to cables, spring assemblies and other hardware before installing opener.

3. Remove all ropes and remove or make inoperative all locks connected to the garage door before installing opener.

4. Where possible, install door opener 7 feet or more above the floor. For products requiring an emergency release, mount the emergency release 6 feet above the floor.

5. Do not connect opener to source of power until instructed to do so.

6. Locate control button: (a) within sight of door, (b) at a minimum height of 5 feet so small children cannot reach it, and (c) away from all moving parts of the door.

7. Install Entrapment Warning Label next to the control button in a prominent location. Install the Emergency Release Marking. Attach the marking on or next to the emergency release.

8. After installing opener, the door must reverse when it contacts a 1½ inch high object (or a 2 by 4 board laid flat) on the floor.

(2) The User Instructions shall include the following instructions:

Important Safety Instructions

Warning—To reduce the risk of severe injury or death:

1. Read and Follow all Instructions.
2. Never let children operate, or play with door controls. Keep the remote control away from children.
3. Always keep the moving door in sight and away from people and objects until it is completely closed. No One Should Cross the Path of the Moving Door.
4. Test door opener monthly. The garage door MUST reverse on contact with a 1½ inch object (or a 2 by 4 board laid flat) on the floor. After adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.
5. For products requiring an emergency release, if possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may allow the door to fall rapidly, causing injury or death.
6. Keep Garage Doors Properly Balanced. See owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other hardware.
7. Save These Instructions.

[57 FR 60455, Dec. 21, 1992. Redesignated and amended at 65 FR 70659, Nov. 27, 2000]

§ 1211.15 Field-installed labels.

(a) A residential garage door operator shall be provided with labels for field installation and constructed as specified in paragraphs (c) through (i) of this section. The labels shall be acceptable for permanent installation. The

instruction manual shall specify where the labels are to be located.

(b) If labels secured by adhesive are used, the instruction shall specify that an additional mechanical means shall be used to secure the labels to surfaces to which the adhesive will not adhere.

(c) A residential garage door operator shall be provided with a cautionary label intended for permanent installation to identify the possible risk of entrapment. The instruction manual shall direct that the label be affixed near the wall-mounted control button.

(d) The label required in accordance with paragraph (c) of this section shall be in a vertical layout with three panels:

- (1) A signal word panel,
- (2) A pictorial panel, and
- (3) A message panel, with adjacent panels delineated from each other by a horizontal black line. The entire label shall be surrounded by a black border and shall measure at least 5 inches (127 mm) wide by 6¼ inches (159 mm) long overall.

(e) The signal word panel as specified in paragraph (d) of this section shall contain the word "WARNING," in uppercase letters, preceded by a safety alert symbol consisting of an orange exclamation mark on a black solid equilateral triangle background with the point of the triangle oriented upward. The word "WARNING" and the safety alert symbol shall be centered on one line and shall be in black letters at least 7/16 inch (11.1 mm) high on an orange background.

(f) The pictorial panel as specified in paragraph (d) of this section shall be positioned between the signal word panel and the message panel. The pictorial shall be black on a white background and shall clearly depict a child running toward or under a garage door. A red prohibition symbol (slash, oriented from the upper left to the lower right, through a circle) shall be superimposed over, and totally surround, the pictorial. The pictorial shall have an overall diameter of 1-7/8 inch (47.6 mm) minimum.

(g) The message panel as specified in paragraph (d) of this section shall include the following text or an equivalent wording: