



DASMA
Door & Access Systems
Manufacturers Association
International

COMMERCIAL & RESIDENTIAL GARAGE DOOR DIVISION

TECHNICAL DATA SHEET

#198

1300 Sumner Avenue
Cleveland, Ohio 44115-2851
Phone: 216-241-7333 • Fax: 216-241-0105
E-mail: dasma@dasma.com

Residential One-Piece Garage Door and Electric Operator Checklist for Home Inspectors and Consumers

Introduction

The garage door systems industry recognizes the critical safety role of home inspectors. This checklist is intended to help home inspectors maximize the value of their service to homeowners and home buyers.

This checklist covers a basic inspection of a residential one-piece garage door, connected to an automatic garage door operator when applicable. For sectional garage doors, see Technical Data Sheet #167.

⚠WARNING

Serious Injury or Death May Occur

- **Keep people clear of the opening while the door is moving.**
- Springs and spring hardware are under high tension. **If a spring is broken, do not operate the door until the spring is replaced. Do not try to remove, repair or adjust springs or any door parts or mounting surfaces, such as wood blocks, steel brackets, cables or other like items.** Because of potential dangers involved, all repairs and adjustments must be performed by a trained door systems technician using proper tools and instructions.
- Safe and proper operation of the door, operator and entrapment protection is dependent on a balanced door, an effectively working operator, and effectively working entrapment protection.

If you answer “No” to any of the checklist questions, or encounter a problematic situation with the door, stop the inspection and urge the homeowner to contact a trained door systems technician for an inspection and repair.

The checklist is separated into Parts A and B. Part A is utilized for the door inspection only. Parts A and B both are utilized if an electric operator is installed.

Items Needed

The inspection can be performed in about 15 minutes. To conduct the inspection, you should have (1) a tape measure, (2) a flashlight, (3) a 1½” high solid object such as a 2x4 piece of wood at least six inches long, and if available, (4) a garage door remote control. Depending on the height of the door, (5) a ladder or step stool may also be helpful.

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

NOTE: The steps in the following checklist should be performed in the order listed.

Part A. One-Piece Garage Door Checklist			
Item	Description	Yes	No
1. Warning Labels	<p>From inside the garage with the door fully closed, check if the following warning labels are present.</p> <p>a. Is a spring warning label attached to the spring or spring bracket?</p> <p>b. Is a general warning label attached to the back of the door?</p> <p>c. Are two warning labels attached to the door in the vicinity of the bottom corner brackets? (NOTE: Some doors have tamper-resistant bottom corner brackets that will not require these warning labels.)</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Spring and Hardware Inspection	<p>From inside the garage with the door fully closed, visually inspect the springs for damage. Visually check the brackets and fasteners. If the door has an operator, check that the methods of connecting the operator to the door and the garage wall are secure. If the door has operator reinforcement, check that the reinforcement is securely attached to the door. Verify the pivot pins do not exhibit excessive wear and that the holes in the linkage arms are not elongated due to excessive wear.</p> <p>Are all hardware parts securely and appropriately attached and damage free?</p>	<input type="checkbox"/>	<input type="checkbox"/>
3. Spring Containment	<p>The counterbalance system usually comprises extension springs attached near the bottom corners of the door. When springs break, containment helps to prevent broken parts from flying dangerously in the garage. Verify that the springs are contained by a secure cable running through the center of the springs. Check this from inside the garage with the door fully closed.</p> <p>Are counterbalance springs and their attachment components restrained by a cable?</p>	<input type="checkbox"/>	<input type="checkbox"/>
4. Door	<p>From inside and outside the garage, with the door fully closed, check the condition of the door.</p> <p>a. Is the door free of any signs of fatigue?</p> <p>b. Is the door free of any signs of cracking?</p> <p>c. Is the door free of any signs of separation of materials?</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. Locking Device	<p>When applicable, is the locking device operational?</p>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

Part A. One-Piece Garage Door Checklist (continued)			
Item	Description	Yes	No
6. Door Operation (Note: If an operator is present, complete this section under Part B, Electric Operator Checklist.)	Without straining yourself, manually lift the door by grasping the door in a safe place where your fingers cannot be pinched or injured. Raise the door to the fully open position, then lower to the halfway open position, then close the door. <ul style="list-style-type: none"> a. Are there handles or suitable gripping points on both the inside and outside of the door? b. Are these handles clear of all pinch points? c. Does the door move freely, without difficulty, and not more quickly than force applied? d. Does the door stay in the fully open position? e. Does the door stay in the partially open position 3-4 feet above the floor? 	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Part B. One-Piece Garage Door Electric Operator Checklist (if operator provided)			
Item	Description	Yes	No
7. Warning Label	From inside the garage with the door fully closed, check if the below warning label is present. Is an Entrapment Warning label attached to the wall nearby the wall-mounted control button?	<input type="checkbox"/>	<input type="checkbox"/>
8. Manual Release Handle	From inside the garage with the door fully closed, check for a manual release handle, i.e., a means of manually detaching the door from the door operator. UL 325 requires that the handle (or gripping surface) be colored red and be easily distinguishable from the rest of the operator system. The handle should be easily accessible and no more than six feet above the garage floor while clearing vehicles. Does the door have an acceptable means of manually detaching the door from the operator?	<input type="checkbox"/>	<input type="checkbox"/>
9. Wall-mounted control button	From inside the garage with the door fully closed, locate the wall-mounted control button. <ul style="list-style-type: none"> a. Are all control buttons mounted in clear view of the door, and safely away from all moving parts of the door? b. Are all control buttons mounted at least five feet above any adjacent walking surfaces to keep them out of the reach of children? 	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
10. Locking Device	Is the manual locking device disabled, or if an electrical locking device is present is it operational?	<input type="checkbox"/>	<input type="checkbox"/>

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

Part B. One-Piece Garage Door Electric Operator Checklist (if operator provided) (continued)			
Item	Description	Yes	No
11. Door Operation – Manual	<p>From inside the garage with the door fully closed, pull the manual release to disconnect the door from the operator. (CAUTION: Whenever disengaging an operator, the door may unexpectedly begin to open.) Without straining yourself, manually lift the door by grasping the door in a safe place where your fingers cannot be pinched or injured. Raise the door to the fully open position, then lower to the halfway open position, then close the door and reconnect the door to the operator.</p> <p>a. Are there handles or suitable gripping points on both the inside and outside of the door?</p> <p>b. Are these handles clear of all pinch points?</p> <p>c. Does the door move freely, without difficulty, and not more quickly than force applied?</p> <p>d. Does the door stay in the fully open position?</p> <p>e. Does the door stay in the partially open position 3-4 feet above the floor?</p>	<input type="checkbox"/>	<input type="checkbox"/>
12. Door Operation – Operator	<p>From inside the garage with the door fully closed, locate the wall-mounted control button and open the door and close the door.</p> <p>a. Does the garage door operator have at least one working control button?</p> <p>b. Does the door fully open and stop above the opening?</p> <p>c. Does the door fully close and rest on the floor with no gap?</p>	<input type="checkbox"/>	<input type="checkbox"/>
13. Electrical Receptacle Outlet	<p>Is a self-grounding or GFCI electrical receptacle outlet within cord length of the operator?</p> <p>(NOTE: If the answer is “No”, recommend that an electrician install a receptacle outlet near the operator. Use of extension cord is not permitted.)</p>	<input type="checkbox"/>	<input type="checkbox"/>
14. Photoelectric Sensors Location	<p><i>(Federal law states that residential garage door operators manufactured after 1992 must be equipped with inherent force sensing – see Item 16 – and secondary protection such as photoelectric sensors or some other safety-reverse feature that meets UL 325 standards.)</i></p> <p>Photoelectric sensors will typically be found near the floor, mounted to the left and right sides at the bottom of the door opening. Measure the vertical distance between the photo-sensor beam and the floor. (NOTE: If no photoelectric sensors are present, refer to the garage door operator instruction manual for entrapment protection information. The operator should be replaced if entrapment protection features are not present.)</p> <p>a. If present, is the beam no higher than six inches above the floor?</p> <p>b. If not present, can it be verified by the door operator manufacturer that an alternate means of secondary entrapment protection is used?</p>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

COMMERCIAL & RESIDENTIAL GARAGE DOOR DIVISION
TECHNICAL DATA SHEET
#198

Part B. One-Piece Garage Door Electric Operator Checklist (if operator provided) (continued)			
Item	Description	Yes	No
15. Photoelectric Sensors Reversal Test	<p>With the door fully open, while standing inside the garage but safely away from the path of the door, use a remote control or a wall-mounted control button to close the door. As the door is closing, wave an object in the path of the photoelectric sensor beam.</p> <p>Does the door reverse and return to the fully open position?</p>	<input type="checkbox"/>	<input type="checkbox"/>
16. Contact Reversal Test	<p>(NOTE: The door may need servicing, based on findings in Door Checklist item 2, 3 or 4, or Electric Operator Checklist item # 8, 9, 11, 13, or 14, before this test is conducted.)</p> <p>Begin with the door fully open. Under the center of the door, place a 1½" high solid object, such as a 2x4 piece of wood, flat on the floor, in the path of the door. Standing inside the garage, but safely away from the path of the door, use a remote control or a wall-mounted control button to close the door.</p> <p>When the door contacts a 2'x 4' laid flat, does the door reverse direction and return to the fully open position?</p>	<input type="checkbox"/>	<input type="checkbox"/>
17. Battery Backup Test	<p>If applicable, test the battery backup feature of the operator. With the door in a closed position, unplug the operator from the electrical receptacle and use the wall-mounted control button or remote control to operate the door both up and down.</p> <p>Does the door system function without being connected to the electrical receptacle?</p>	<input type="checkbox"/>	<input type="checkbox"/>
18. Unattended Operation Check	<p>Unattended operation, such as using a smartphone to close the door, is not permitted for one-piece garage doors per UL 325. Check for the presence of external devices that connect to the local Wi-Fi and interface with the operator. Verify that a "timer to close" is not in operation.</p> <p>Is the installation free of all unattended operation devices and features?</p>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.