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1.0 Caution

An Improperly Adjusted Door can cause injury and/or equipment damage.

Inspect door operation daily using safety checklist in Owner’s Manual and at door.
- Have door adjusted as described in Owner’s Manual.
- Safety devices should be in place and operational.
- Have door inspected at least annually by an AAADM certified inspector.

2.0 Terminology

In the following manual, the word:

‘Caution’ means that injury or property damage can result from failure to follow instructions.

‘Note’ is used to indicate important steps to be followed or important differences in equipment.

3.0 To Our Customers

The purpose of this manual is to familiarize you with your automatic door system. It is essential that you “know your system” and that you recognize the importance of maintaining your door system in compliance with the industry standards for safety.

It is your responsibility, as owner or caretaker of the equipment, to inspect the operation of your door system on a daily basis to ensure that it is safe for use by your invitees, customers, or employees.

This manual will provide you with a description of the operation and maintenance requirements of your door. It also provides the instructions for the Daily Safety Check.

Should the door fail to operate as prescribed in the Daily Safety Check, or at any other time for any other reason, do not attempt to repair or adjust the door. Call an AAADM Certified service technician. These technicians are trained to service your door in accordance with applicable industry safety standards.
Horton Automatics’ products are manufactured at the plant’s facilities in Corpus Christi, Texas. A worldwide network of authorized independent distributors offers both installation and service. For the Horton Automatics Distributor in your area, call 1-800-531-3111 or consult the Yellow Pages of your local telephone directory under ‘Door Operating Devices’. Visit our website at ‘https://www.hortondoors.com’.

Your door system was designed to the latest operating and safety standards. In order to ensure the continued safe operation of your door, it is important that:

• Your door system be maintained in compliance with the standards of the industry.

• Proper decals and labels be applied and maintained on your doors. If decals are removed or cannot be read, request labels to be replaced when calling for service.

AAADM, the American Association of Automatic Door Manufacturers, has established a program to certify automatic door inspectors. Through this program, the inspectors are trained to check your door systems for compliance with the appropriate version of the American National Standards Institute standard ANSI / BHMA A156.10 or ANSI / BHMA A156.38.

Note: If there are any problems, or if you are unsure about the safe performance of the door, discontinue door operation immediately and secure the door in a safe manner. Call your authorized automatic door professional for repairs.

Automatic Sliding Doors are installed in a variety of combinations.

• Single or BiParting (Including Telescoping Versions of each).

• Sliding Door Swings Out in an Emergency with Fixed Sidelite.

• Sliding Door Swings Out in an Emergency and Fixed Sidelite also swings Out.

• One-Way Traffic or Two-Way Traffic.

• Activated by Floor Mat, Sensors, or Push Switches (Knowing Act).

Automatic Sliding Doors always require a Safety Zone to cover the area in or near the door travel. The Exception: LowEnergy Doors.
7.0 Daily Safety Check

(Please note that all figures and diagrams are for illustration purposes only).

Perform the following safety checks daily on each automatic sliding door to ensure your customers’ safety and your own protection. Perform these tests while traffic is restricted from all detection and sensing zones.

LowEnergy Automatic Sliding Doors must use Knowing Act Activation Only.

1. Check electronic sensor by walking toward the center of the door opening at various angles at a moderate speed. The door should start opening when you are about four feet from the door, should slide open smoothly, and stop without impact. Repeat on other side of opening. Move slowly through the door opening (6 inches per second). The door should remain open. (Refer to Figures 2 and 3 at Left)

Note: If your door is set up for One-Way Traffic, the sensor on the side not intended for approach should be active until the door is within 6 inches of fully closed. The sensor should re-open the closing door if a person is detected a minimum of 24 inches from the door.

2. Step out of the sensor zone. After a brief time delay (at least 1.5 seconds for Full-Power Sliding Doors and 5 seconds min. for LowEnergy Sliding Doors), the door should slide closed smoothly and should fully close without impact. Doors should be adjusted so they do not close faster than 1 foot per second.

3. Observe traffic routing to the door. Plan traffic routing so persons will approach the door straight on and not from an angle.

4. Walk parallel to the door front face and towards the center of the door opening to check that the detection pattern is at least as wide as the door opening. This test should be performed within approximately 12 inches from the door face. Repeat this test in both directions.

5. Check the Threshold Area Safety Zone. Activate the door to the Full-Open position. Stand motionless and crouch in several locations in and around the door path area for at least 10 seconds. The door should not close. (Refer to Figure 3 at Left)
# Floor Mat Actuation

(Not Permitted for LowEnergy Slide Doors)

1. Step on the 'opening' (activating) Mat in several places. Door should slide open smoothly and stop without impact. (Refer to Figure 4)

2. Step through the doorway onto the mat on the other side. Door should remain fully OPEN without interruption. Note: If there is more than one mat on each side, each mat should be tested.

3. Step OFF the mat. After a brief time delay (at least 1.5 seconds, 5 seconds min. for LowEnergy Sliding Doors), the door should close slowly and smoothly without impact. Doors should be adjusted so they do not close faster than 1 foot per second.

4. Check the mat molding and threshold. It should be complete and secured with all screws required.

## General Safety

Pay attention to the following General Safety Items and conduct checks periodically where noted.

1. **Signage.** Automatic Sliding Doors should have decals properly displayed. There should be decals that include the statements: 'AUTOMATIC DOOR' (in letters 1/2 in, high, minimum) and 'IN EMERGENCY - PUSH TO OPEN'. An adjacent sidelite or wall should have a 'STAND CLEAR' or similar decal in the slide path of the door. (See Figures 5, 6, 7, 8, 9, 10 and 11 for examples of some decals that may be used.) An AAADM safety information label should be affixed to the door frame in a visible, protected location.

2. **Closing Speed.** The closing time of the door must not be less than the minimum time as shown in the following table. This closing time is taken from full open to a point six inches from fully closed.

   **Example:** If a single slide door with a nominal opening of 36 inches closes in 2.3 seconds, it is too fast and must be slowed down. If it closes in 3.0 seconds, it is in compliance.

3. The Force to prevent the door from closing should not exceed 30 lbs. For LowEnergy Doors, the force to prevent the door from opening or closing should not exceed 15 pounds. This can be measured with a Force Gauge.
4. **Activating Switch.** *(Knowing Act)* Doors and LowEnergy Doors equipped with a manual operated switches shall when activated, hold the door open for five seconds minimum after release of activating switch.  

Doors equipped with a manual activating switch shall have a Decal that reads: ‘AUTOMATIC DOOR. ACTIVATE SWITCH OR PUSH TO OPERATE’. The decal should be visible from both sides of the door or the side with the ‘Knowing Act’ switch if there is only one. *(Refer to Figure 8)*

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**Chart 1: Closing Speed and Door Closing Time as a Function of Door Opening Width**

For LowEnergy Sliding Doors:
1. Maximum Closing Speed is 6” per second.
2. Maximum Opening Speed is 12” per second.

<table>
<thead>
<tr>
<th>Nominal Door Opening</th>
<th>Minimum Closing Time to Within 6 Inches of Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot;</td>
<td>2 Sec</td>
</tr>
<tr>
<td>60&quot;</td>
<td>2.5 Sec</td>
</tr>
<tr>
<td>36&quot;</td>
<td>3 Sec</td>
</tr>
<tr>
<td>42&quot;</td>
<td>3.5 Sec</td>
</tr>
<tr>
<td>48&quot;</td>
<td>4 Sec</td>
</tr>
</tbody>
</table>

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**Figure 9: Decal Type and Placement**

- **Front Elevation- BiPart Sliding Door**

- **Figure 10: C1634 Caution Decal**
  - Place on Sidelites at Location Shown Above

- **Figure 11: C1682 Emergency Egress Decal**
  - For Doors with ‘Knowing Act’ Switch. Place on Switch Side of Sliding Panel.

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**STAND CLEAR AUTOMATIC SLIDING DOOR**

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**IN EMERGENCY PUSH TO OPEN**
5. **Emergency Breakout.** Test by manually pushing door panel at lock area in direction of emergency exit. Release door. The door should either stop operation or spring to closed position. Make sure door panel or panels are properly re-latched.  *(Refer to Figure 12)*

If the door is equipped with breakaway sidelites, door operation should stop when sidelites are broken-out. *(Refer to Figure 13)*

6. **Housekeeping.** Be sure floor guides are kept clean and free of any debris which could prevent proper door slide. Check the door area for tripping or slipping hazards. Check all door panels for damage. Make sure that all hardware and overhead covers are properly secured. There should be no bulletin boards, literature racks, merchandize displays, or other attractions that would interfere with the use of the door or invite people to stop or stand in the door area.

7. **Traffic Patterns.** Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly towards the center of the door opening.

**IF YOU HAVE A PROBLEM, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL AN AUTOMATIC DOOR SUPPLIER TO MAKE PROMPT REPAIRS.**

### 9.0 Limited Warranty

Horton Automatics (Seller) warrants to the Buyer all products they manufacture to be free from defects in material and workmanship, under normal use and service, for twelve months from the date product is placed in operation. The Seller's obligation under this warranty is limited to the repair or replacement at the factory, of any parts which shall be returned to the Seller with transportation charges prepaid and which after examination, prove to be defective. Said warranty shall not apply to such products which shall have been installed, altered, or subjected to misuse, negligence or accident. The aforesaid warranty is made expressly in lieu of other warranties expressed or implied and in lieu of any other obligations or liabilities on the part of the Seller and the Seller neither assumes nor authorizes any person to assume for it any other liability or obligations in connection with the sale of such products to the Buyer.
9.0 Limited Warranty cont.

LIMITED WARRANTY

There is no warranty of merchantability or fitness for any particular purpose, nor is there any warranty, expressed or implied, except as specifically stated in the previous paragraph. Seller shall not be liable for special or consequential damage, nor for claims of any third party against the buyer. Generally, the installing distributor provides a one-year warranty covering the labor and transportation charges for defective parts replacement. If this is the customer’s wish, it should be specified.

**Figure 14: 2-Way Traffic Motion and Safety Zones**

ISOMETRIC FRONT VIEW

2-WAY TRAFFIC Activation / Presence Zone

C7775 Safety Beam

48” (1219)

24” (610)

Presence Detection

43” Min. (1092)

5” Max. (127)

30” (762)

8” (203)

Door Opening Width

2-Way Traffic Motion and Safety Zones

The following general information is provided as a recommendation for safe operation.

Please note that a BiParting Unit is shown. Single Slides have similar layouts.

**Note:** Zone dimensions taken from face of sliding panel each side. Dimensions given in U.S. Inches followed by Millimeters in parenthesis.