



A Member of

AAADM

American Association of Automatic Door Manufacturers

AUTOMATIC SLIDING DOOR

OWNER'S MANUAL

Distributed by:



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CAUTION

- Failure to follow instructions can result in an improperly adjusted door and can, consequently, cause injury and damage to equipment and property.
- Inspect door operation daily using the “Daily Safety Check” of this Owner’s Manual and at door. Safety devices should be in place and operational.
- Should the door fail to operate as prescribed in the “Daily Safety Check” of this Owner’s Manual or if a potentially hazardous situation is suspected, the door should be taken out of automatic service until a professional inspection is made and the problem is corrected.
DO NOT ATTEMPT TO REPAIR OR ADJUST THE DOOR YOURSELF.
- Have door and all safety devices inspected at least annually by an ***AAADM*** * certified inspector.

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 as outlined in the ANSI A156.10 - 1999 American National Standard for Power Operated Pedestrian Doors. Your local Horton Automatics service representative will be familiar with the aforementioned standards, as well as all applicable local codes and Horton Automatics recommendations for power operated pedestrian doors. Maintenance and adjustments performed by this service representative/technician will ensure safe and proper operation of the automatic door unit.

Service Availability

Horton Automatics’ products are manufactured at the plant’s facilities in Corpus Christi, Texas and Telford, England. 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.” In Europe, call the plant in Telford, England at 011-44-1952-670169.

Compliance with Safety Standards

Your door system was designed to the latest operating and safety standards. In addition to the above recommendations and to ensure the continued safe operation of your door, it is important that proper decals and labels be applied and maintained on your doors (see page 6 of this owners manual for specific decal instruction). If decals are removed or cannot be read, request labels to be replaced when calling for service.

NOTE:** ***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 the door systems for compliance with the appropriate version of the American National Standards Institute standard A156.10.

What You Should Know

Your local Horton Automatics distributor should provide you with the following for each door after installation:

1. Instructions on how to conduct the “Daily Safety Check” by walk-through example

NOTE: **AAADM** Daily Safety Check videos are available.
Contact your local distributor or **AAADM**.

2. Location of function switches and instruction in their use.
3. Location of power disconnect.
4. Discussion of problems that could result from door being allowed to operate after a malfunction is observed.

NOTE: If there are any problems, **discontinue door operation immediately** and secure in a safe manner. Call your local distributor for repair.

5. **AAADM** compliance certificate signed by an **AAADM** certified automatic door inspector.

6. This *M-Fold* Owners Manual with the following items filled in:

_____ Phone number to call regarding problems or request for service

_____ Date equipment shipped from Horton plant

_____ Date equipment placed in service

_____ Horton Automatics’ invoice number for Warranty reference and repairs

_____ Equipment type (door series) & Accessories _____

Daily Safety Check

It is the responsibility of the owner or caretaker of the equipment to perform the following safety checks each day and after any loss of electrical power (perform these tests while traffic is restricted from all detection and sensing zones):



Figure 1

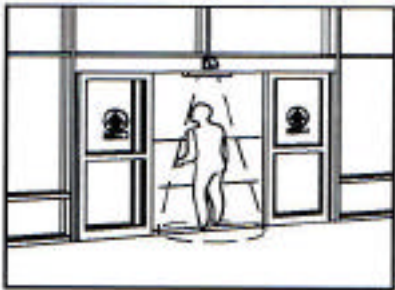


Figure 2

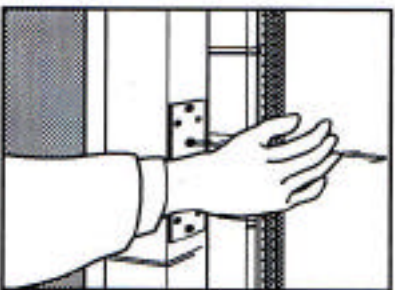


Figure 3

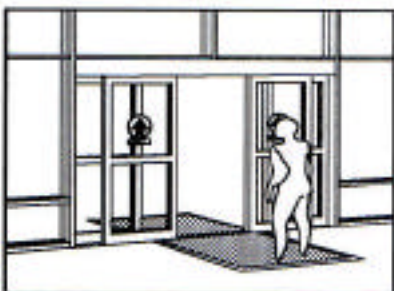


Figure 4

Motion Detector Actuation

1. Check electronic sensor by walking toward the door at a moderate speed. When about 5' (1524mm) from the opening, it should smoothly start sliding open and then stop without impact. Repeat on the other side of the opening. Move slowly through the door at 6" (152mm) per sec. The door should remain open (See Figure 1).

NOTE: If your door is set up for one-way traffic, the detector on the side not intended for use should be active until the door is within 6 inches of fully closed. The sensor should re-open the closing door if an object is detected a minimum of 24 inches from the door.

2. Step out of the sensor zone. After a brief delay (at least 1.5 sec.) the door should slide closed smoothly and should close fully without impact. Doors should be adjusted so they do not close faster than 1 foot per second.
3. Observe traffic routing to door. Plan traffic routing so persons will approach the door straight on and not from an angle.
4. Walk parallel to the door face to check that the detection pattern is at least as wide as the door opening. This test should be performed about 2 1/2 feet from the door face.
5. Open the door. Cover each doorway holding beam with your hand and stand motionless for several seconds. (See Figure 3) The door should remain open. Remove your hand and the door should close after the time delay expires. If other safety devices are being used, stand motionless in the door opening for 10 seconds. The door should not close. (See Figure 2)

Floor Mat Actuation

6. Step on "opening" mat in several places. Door should slide open smoothly and stop without impact. (See Figure 4)

C1630-2
For 2-way traffic place one on each sliding panel.



Figure 5

C7280
Place on entry side of slide panels on doors using pushbutton entry.

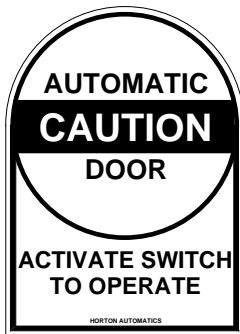


Figure 6

C1631-3
For 1-way traffic place one on the control/egress side of sliding panel.



Figure 7

C1634 Place on sidelites.



Figure 8

C1682 Place on exit/egress side of breakout panels.



Figure 9

- 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.

- Check the mat molding and threshold. It should be complete and secured with all screws required.
- Step off the mat. After a brief time delay (at least 1 1/2 seconds), the door should close slowly and smoothly without impact. Doors should be adjusted so they do not close faster than 1 foot per second.

General Safety

- Decals.** Door should have decals properly displayed. Each leaf should have a decal that includes the statements: "AUTOMATIC DOOR" (in letters 1/2 in. high, minimum) and "IN EMERGENCY-PUSH TO OPEN". (See Figures 5 through 9 for examples of some decals that may be used, See Figure 10 for application locations).
- Closing Speed -** Horizontal doors must be adjusted within the following limits to comply with ANSI A156.10.

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 a point one inch from full open to a point two inches from fully closed. Example: If a 3'-0" door panel closes in 1.7 seconds it is too fast and must be slowed down. If it closes in 3.0 seconds it is in compliance.

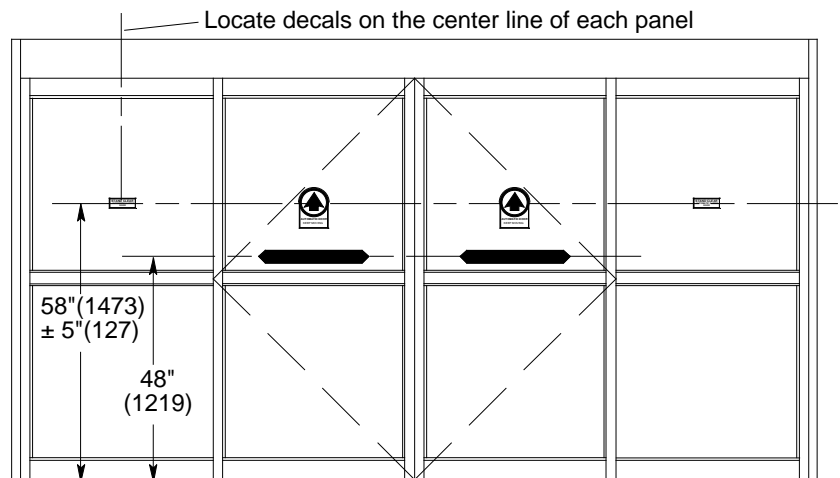


Figure 10

General Safety (cont.)

Maximum Closing Speed - 1 Foot per Second		
Nominal Door Opening		Minimum Closing Time
Single Slide	Bi-Part	3 Seconds
36"	48"	3 Seconds
42"	60"	3 Seconds
48"	72"	3-1/2 Seconds
	84"	4 Seconds
	96"	

Force to prevent the door from closing should not exceed 30 pounds. This should be checked at several points in the closing cycle by stopping the door and attaching a spring scale. The scale reading should not exceed 30 pounds, or if operator is equipped with a reverser, the door should reverse with a force not to exceed 15 pounds.

3. Emergency Breakout. Test by manually pushing door 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.
4. 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 broken or cracked glass. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area where people could be hit by the door.

REGARDLESS OF WHICH ACTIVATING DEVICE IS USED, IF YOU HAVE A PROBLEM YOU CANNOT CORRECT, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL YOUR SERVICE REPRESENTATIVE.

Operation

Regardless of the type of actuation and/or threshold presence sensing device used, the basic test for safe operation remains the same - the door should not close if you stand motionless for 10 seconds in the door opening.

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 repaired by any person not expressly authorized in writing for such purpose by the Seller, 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.

There is no warranty of merchantability or fitness for any particular purpose, nor is there any warranty, expressed or implied, except as specifically stated above. 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.



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