

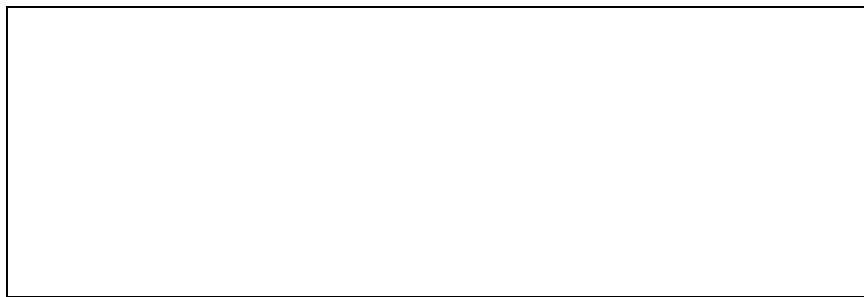
AAADM

American Association of Automatic Door Manufacturers

AUTOMATIC SWINGING DOOR

OWNER'S MANUAL

Distributed by:



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CAUTION

Improperly Adjusted Door can cause injury and 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.

In the following manual, the word:

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

The word **Note** is used to indicate important steps to be followed or important differences in equipment.

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 insure 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 a qualified service technician. These technicians are trained to service your door in accordance with applicable industry safety standards.

Service Availability

Automatic door products are distributed through a nationwide network of authorized automatic door suppliers for sales, installation, and service.

Should you need service on your door system, consult the yellow pages of your telephone directory under "Door-Opening Devices" for your manufacturer's local authorized automatic door supplier or call the manufacturer for a local automatic door supplier.

Compliance with Safety Standards

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.
- Safety devices for all doors should be checked by an AAADM certified inspector at least annually.

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 A156.10.

What You Should Know

Be sure that an automatic door supplier has provided the following for each door:

1. Instruction on how to conduct the *Daily Safety Check*^{*} (by walk-through example).
2. Location of function switches and instruction in their use.
3. Circuit breaker or power disconnect location for each door system.
4. Discussion of problems that could result from door being allowed to operate after a malfunction is observed.
5. Number to call for service or questions about your system if you are uncertain of any condition or situation.

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

6. AAADM compliance certificate or a work order signed by an AAADM certified automatic door inspector.
7. A completed annual compliance inspection sticker, located at the bottom of the daily safety check label affixed to the door.
8. Warranty information for each door.

^{*} NOTE: AAADM Daily Safety Check videos are available.
Contact your automatic door supplier or AAADM.

Daily Safety Check

Perform these safety checks *daily* on each automatic swinging door to insure your customers' safety and your own protection. Perform these tests while traffic is restricted from all detection and sensing zones.

Sensor Activation / Presence Detection Safety

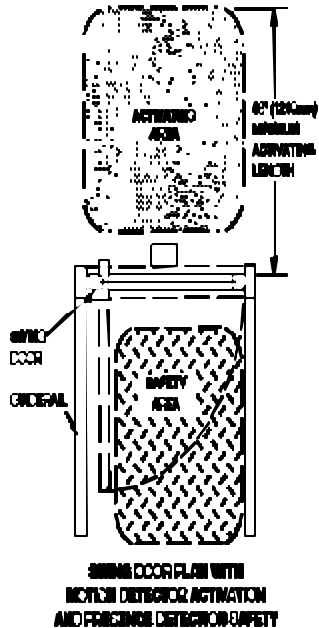


Figure 1

1. Check electronic sensor by walking toward the door opening at a moderate speed. The door should start opening when you are about four feet from the door, should swing open smoothly and stop without impact. Move slowly through the door (6 in. per second). The door should remain open.
2. Step out of the sensor zone. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then noticeably slow down and take at least 1 1/2 seconds for the final 10° closing.
3. Approach the safety side of the door first, then have someone else approach the activating side of the door, as long as you are in the safety area of the door it should not open. (See Figure 1)
4. Crouch motionless in the door opening for at least 4 seconds. The door should not close.

Caution: If safety sensor is not working, door may swing toward you without stopping.

Floor Mat Activation/Floor Mat Safety

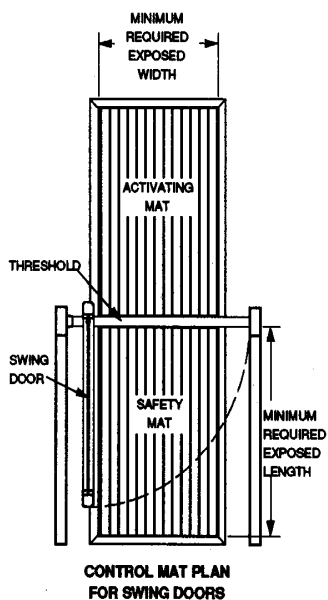


Figure 2

1. Step on the "opening" (activating) mat.
2. It is necessary to have a safety mat covering the entire area the door swings over. Step through the doorway onto the safety mat and remain motionless for 4 seconds. The door should remain open. Repeat at several locations on the mat. (See Figure 2 or 3)
3. Step off the safety mat. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then slow down. The last 10° of closing should be noticeably slower (at least 1 1/2 seconds).
4. With the door closed, step on the safety mat. Have someone step on the opening mat. Door should remain closed as long as someone remains on the safety mat.

Caution: If safety mat is not working, door may swing toward you without stopping.

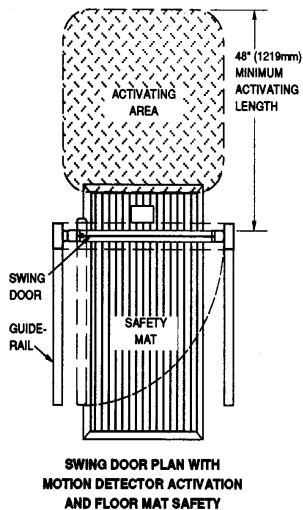


Figure 3

5. Check the mat molding and threshold. It should be complete and secured with all required screws.
6. Crouch motionless in the door opening for at least 4 seconds. The door should not close.
7. **Do not** move heavy objects over floor mats.

General Safety

1. Breakout Stop. Center pivoted in-swinging doors may be supplied with an emergency breakout stop or switch that will allow the door to open to 90° in the opposite direction of normal traffic. Call your supplier for details.

When the door is pushed into the breakout mode, the electrical power to the operator is removed. Check that door will not activate.

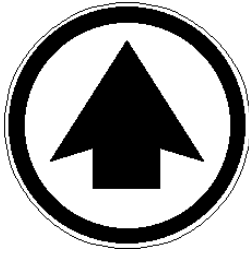


Figure 4

2. Decals. The door should have traffic decals properly displayed as follows:

A. An arrow sign (See Figure 4) shall be visible from the approach side of a swinging door, mounted on the door at a height 58 in., ±5 in. (147 cm, ±13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a green circle surrounding a black arrow on a white background.

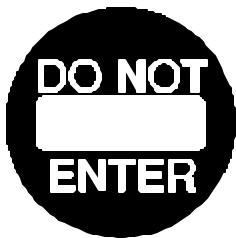


Figure 5

B. An international "DO NOT ENTER" sign (See Figure 5) shall be visible from the side that would swing toward pedestrians attempting to travel in the wrong direction. It should be mounted on the door at a height 58 in., ±5 in. (147 cm, ±13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a red circle with the wording, "Do Not Enter", in white letters in the red circle.



Figure 6

C. Swinging doors serving two-way traffic shall be marked with a decal, visible from both sides of the door, with the words "CAUTION, Automatic Door". (See Figure 6) The words "Automatic Door" must be at least 1/2 in. letters. It should be mounted on the door at a height 58 in., ±5 in. (147 cm, ±13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter and made with black lettering on yellow background.

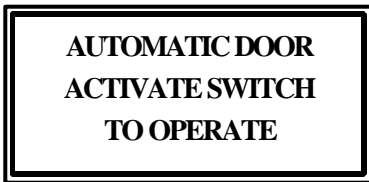


Figure 7

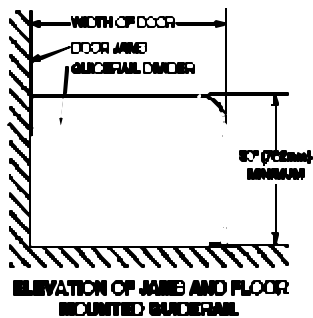


Figure 8

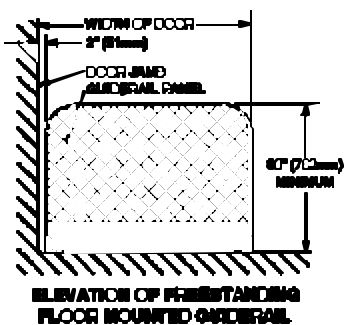


Figure 9

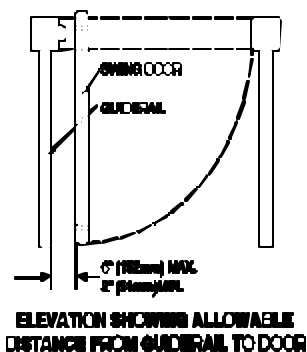


Figure 10

D. An AAADM safety information sticker should be affixed on the door or frame in a protected, visible location. If you need additional decals for your automatic doors, call your automatic door supplier.

3. Activating Switch. (Knowing Act) Doors equipped with a manual operate switch shall, when activated, hold the door open for five seconds minimum after release of activating switch. Reactivate door and crouch motionless in door opening for 10 seconds. Door should not close.

Doors equipped with a manual activating switch shall have signs as follows: "Automatic Door. Activate Switch to Operate." The sign should be visible from both sides of the door. (See Figure 7)

4. Guide Rails. Check that guide rails or other barriers or separators are present (two per swing door side) and firmly anchored. (See Figures 8, 9, 10)

5. Lock Stile. With door open, grasp lock stile of door and attempt to move vertically and horizontally. There should be no looseness in the door pivots or in connections between door and operator.

6. Housekeeping. Check the door area for tripping or slipping hazards.

Check all door panels for damage. Make sure that all covers are properly secured. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area that would interfere with use of the door.

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

8. Finger Guard. If installed, inspect finger guard to see that it is secure and in good repair. (See Figure 10)

IF YOU HAVE A PROBLEM, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL YOUR AUTOMATIC DOOR SUPPLIER.

Operation

Typical Operating Characteristics

CAUTION: ALL DOOR PERFORMANCE TESTS SHOULD BE PERFORMED BY THE OWNER, MANAGER, OR A TRAINED EMPLOYEE TO MINIMIZE ERRORS.

- Activate the approach side activation device. (Press wall switch, mat, or motion sensor) The door should open.
- Walk through the door opening and stop in the swing arc area of the door. The door should remain in the open position until you are out of the sensing pattern.
(Note: If the door is equipped with a low energy ADA door operator, swing side protection is not required and therefore may not have any swing side protection device.)
- Once the door has closed, walk back toward it and stand in the swing arc area of the door. Activate the approach side of the door. The door should remain closed until you are out of the safety pattern.
- Activate the approach side of the door. The door should open.

This concludes a standard walk test of your swing door product. If any portion of the walk test fails to perform as described, **turn the power off** and call your local servicing dealer.

DO NOT ATTEMPT TO REPAIR THE DOORS YOURSELF, THIS SHOULD BE DONE BY QUALIFIED PERSONNEL ONLY!

Automatic doors designated as “barrier free access” or “trained traffic” may or may not have safety devices and are not required to have them. However, if the doors are barrier free type for the impaired, they must meet special door force and speed requirements.

Your servicing dealer is trained to set up the doors for “barrier free” specifications.

Note: These specific needs do not exclude local fire or building codes.

Automatic swing doors designated as “Trained Traffic” may have special activation systems incorporated.

Owners Responsibilities:

- **Daily inspection of door system performance.**
- **Removal of all debris or objects that could cause malfunction.**
- **Initiate service calls when problems occur.**

WARRANTY KM SYSTEMS AUTOMATIC DOOR OPERATORS

We warrant that KM Systems Automatic Door Operators have been manufactured from high-grade materials with first class workmanship. Subject to the other conditions of this **Warranty**, if any parts of our own manufacture prove defective in material or workmanship within one year after original installation, we shall repair or replace such parts free of cost. If any equipment or parts not of our own manufacture are utilized in connection with this door operator and equipment, we shall assume responsibility and liability for defects only to the extent of such adjustment as the manufacturer there of makes to us. The warranty shall not extend beyond one year from the date of installation regardless of any replacements, which may be made.

Our obligations under this **Warranty** are conditional upon the owner's having (1) given us prompt written notice of alleged defects, and (2) upon our request, returning allegedly defective items to our works in Monroe, North Carolina, freight prepaid, for our inspection.

We shall have no obligation or liability, under this **Warranty** or otherwise, in the event of improper installation of this automatic door equipment unless and until the installation is correct. However, in no case shall we have any obligation or liability beyond one year after original installation or any replacement or repairs that may be made. We reserve the right, without obligation, to inspect all installations or KM Systems door operators and equipment for the protection of both the owner and ourselves.

In no event shall we have any obligations or liability, under this **Warranty** or otherwise, resulting in whole or in part for damage to defects in the door operator or equipment caused by abuse, misuse, malicious mischief, acts of God, casualty, improper handling or the negligence of the owners or others. Nor shall we have any obligations or liability for any loss, cost or expense incurred in the repair or replacement of the door operator or equipment except on express written authority from our office in Monroe, North Carolina.

The owner's sole remedy against us for any alleged defects in the KM Systems door operator or equipment shall be as provided in this **Warranty**. We hereby disclaim all other obligations and liability for damages, including any incidental consequential damages. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This **Warranty** may not be changed, expanded or modified in any way except in writing, signed by our duly authorized representative. KM Systems factory-authorized distributor would provide any Warranty covering field labor.



K M S Y S T E M S , I N C .

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