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# Full Automatic Swing Door

## OWNER'S MANUAL

A Founding Member of: AAADM

(American Association of Automatic Door Manufacturers)

### WARNING

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
  - NEVER leave a Door operating without all Safety detection systems operational.

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## CHAPTER 1: WARNING LABELS

Please refer to this section in the event a warning label within this manual needs further explanation.

### **WARNING**

Indicates a hazardous situation which has some probability of *severe injury*. It should not be considered for property damage unless personal injury risk is present.

### **CAUTION**

Indicates a hazardous situation which may result in a *minor injury*. Caution should not be used when there is a possibility of serious injury. Caution should not be considered for property damage accidents unless a personal injury risk is present.

**Notice:** Indicates a statement of company policy as the message relates to the personal safety or protection of property. Notice should not be used when there is a hazardous situation or personal risk.

*Note:* Indicates important information that provides further instruction.

## CHAPTER 2: GENERAL SAFETY RECOMMENDATIONS

### **WARNING**

An improperly adjusted door can cause injury and/or equipment damage.

### **WARNING**

Safety devices must be installed correctly and operational.

### **WARNING**

Do Not operate any Swing Door Unit without fully understanding how a Swing Door functions. If you do not fully understand, ask a qualified technician. Failure to do so may result in bodily injury, or property damage and will nullify all warranties.

**Notice:** This manual must be given to and retained by the purchasing facility or end user.

**Notice:** Inspect door operation daily using the Daily Safety Checklist (within this manual and on door).

**Notice:** Have door inspected at least annually by an AAADM certified inspector.

## CHAPTER 3: SCOPE

### SECTION 3.1: To the Customer

The purpose of this manual is to familiarize the Owner with proper operation of the door. It is essential that the Owner recognizes the importance of maintaining a door system in compliance with industry standards for safety.

It is the responsibility of the Owner/Caretaker to inspect operation of the door on a daily basis. Daily inspection must be done to ensure safe door operation for use by pedestrians, including (but not limited to) invitees, customers, or employees.

### SECTION 3.2: Objective

This manual provides a description of operation and maintenance requirements, and instructions for a daily safety inspection.

### **WARNING**

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 technician. These technicians are trained to service automatic door systems in accordance with ANSI/BHMA A156.10 (Full Automatic).

## CHAPTER 4: GETTING STARTED

Automatic full-power swinging door operators can either be supplied as complete packages, or simply as the operator with header and drive arm. They can be mounted as overhead concealed operators for direct drive applications or surface mounted for push and pull applications. Swing door products are designed for single, pair or double egress applications.

In all instances, guide rails may be required to protect the swing area of the door panel. If the door swings against a natural protective barrier such as a wall, then perhaps the guide rails can be eliminated. No matter the configuration or system, automatic Slide Doors:

- ▶ Must include Sensors and Signage for the safety and convenience of the user.
- ▶ Have a Safety Zone to cover the area the door travels.
- ▶ Plan traffic routing so persons will approach the door straight on and not from an angle.
- ▶ Guide Rails on the the Swing side of doors (unless a wall is in the same position).

### SECTION 4.1: Service Availability

Door products are distributed through a nationwide network of authorized suppliers for sales, installation, and service. Immediately contact the Door Manufacturer or the Authorized Door Manufacturer Representative, if service must be performed on an automatic door system.

### SECTION 4.2: Safety Standard Compliance

The automatic door system was designed to comply with the latest operating and safety standards. To ensure continued, safe operation it is important that:

- ▶ The door system is maintained in compliance with industry standards.
- ▶ Proper decals/labels are applied and maintained on doors.
- ▶ All doors should be checked by an AAADM certified inspector at least annually.

The American Association of Automatic Door Manufacturers, has established a program to certify automatic door inspectors. Through this program, inspectors are trained to check door systems for compliance with the appropriate version of an ANSI standard. In the United States, ANSI Standard 156.10 (Used to cover Full Automatic doors) applies.

### SECTION 4.3: Limited Warranty

NABCO Entrances Inc., for its Gyro-Tech product line, provides to its customer a limited warranty on products. The warranty is:

NABCO ENTRANCES INC. will exchange or repair, F.O.B. the plant, any component found defective in workmanship and/or material, subject to NABCO's inspection, for a period of one (1) year after installation or 18 months after manufacture, whichever comes first. Warranty does not include field service labor. The installing contractor/customer will be responsible for installation and field service. This is NABCO ENTRANCES Inc.'s sole warranty.

This warranty does not cover loss or damages resulting from causes beyond the manufacturer's control, misuse, neglect, accidents, windstorms, or other acts of God, or acts of terrorism. Warranty is for normal use and service. The warranty does not apply to equipment that has been repaired or altered so as to adversely affect conditions of operation. Warranty will not obligate NABCO for damages resulting from such alterations, misuse, or acts of God, or acts of terrorism.

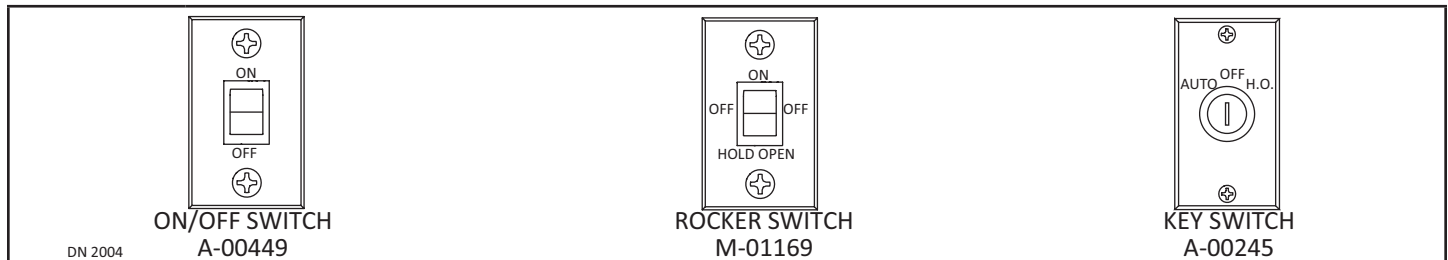
### SECTION 4.4: Information Provided by Door Supplier

*Note: To obtain an AAADM Daily Safety Check video, please go to <http://www.aaadm.com/doorowners.asp>*

The Door Supplier must provide the Owner/Caretaker:

- ▶ Instruction on how to conduct the Daily Safety Check.
- ▶ Location of activation Switches and Push Plates with instruction of their use.
- ▶ Contact number to call for Service.
- ▶ Contact number to call for inquiries about the door system, and/or to report concerns.
- ▶ An AAADM inspection form, or a Work Order signed by an AAADM certified inspector.
- ▶ Affixed to the Door, a completed Annual Compliance Inspection label, at the bottom of the Safety Information label.
- ▶ Warranty information for each Product.

## CHAPTER 5: OPERATION



Rocker Switch and Key Switch	
Switch	Description
ON	When the switch is in ON position, the window is operational.
OFF	When the switch is in the OFF position, the window is not operational. The OFF position does not shut off the main power to the window unit.
HOLD OPEN H.O.	<ul style="list-style-type: none"> <li>▶ Door is held Open as long as the Switch remains in the Hold Open position.</li> <li>▶ Doors should be held Open in this manner. Do Not prop open the doors with any object.</li> </ul>
AUTO	All signals are accepted and the door is ready for operation.

## CHAPTER 6: GENERAL SAFETY

Pay attention to the following safety items and perform checks periodically where noted.

- ▶ Force (Force can be measured with a force gauge):
  - Force to prevent the door from closing should not exceed 30 pounds.
  - If the door is equipped, force to Breakout the door should not exceed 50 pounds.
  - Force to open door in the event of a power failure should not exceed 30 pounds.
- ▶ Breakout Mode (If Equipped):
  - Center pivoted in-swinging doors may be supplied with an emergency breakout stop or switch that will allow the door to open in the directions of emergency egress. For details, please call customer service at: (877) 622-2694.
  - When the door (or door including a sidelite) is pushed into Breakout mode, check that the door will not activate into other direction.
- ▶ Strike Stile:
  - With door open, grasp the Strike Stile of door and attempt to move it vertically and horizontally. There should be very little, if any, looseness in the door pivots, and/or in connections between door and operator.

## CHAPTER 7: DAILY SAFETY CHECK

- CAUTION** If the Swing Door will not be used for at least (1) month, it is recommended to turn Power OFF to the Unit.
- CAUTION** If a Sensor is not working, the door may swing toward you without stopping.
- CAUTION** As a preventive measure, any components showing signs of wear must be replaced by a qualified, NABCO trained technician, or service provider.

**Attention:** In the event any type of object needs to be removed from the Sensor Detection Zone (vicinity), the Sensor will keep the door open until it “relearns” the zone before resuming normal operation. This may take a minute or two.

The best time to perform a Daily Safety Check is early in the morning while pedestrian traffic is still restricted from Sensor activating zones. The purpose of a Daily Safety Check is to ensure pedestrian safety and Owner protection.

### SECTION 7.5: Swing Door and Floor Area

1. Ensure the Power Breaker is switched ON. Do not switch Power Breaker ON and OFF too quickly.
2. Ensure the Rocker Switch or Key Switch is set to “ON”.

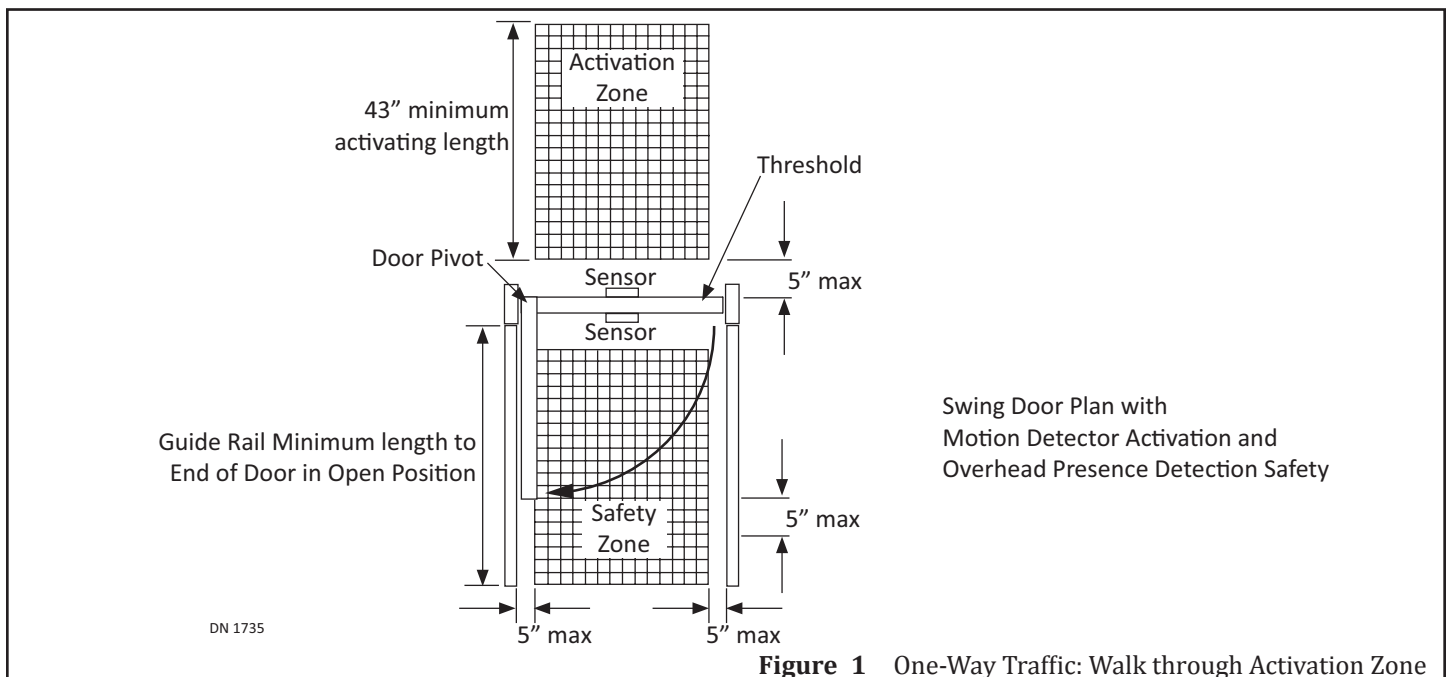
3. If Equipped: Test Emergency Break Out. In Break Out mode, the door must not activate. Call your supplier for details.
4. Inspect the floor area. It should be clean with no loose parts that might cause user to trip or fall. Keep traffic path clear.
5. Inspect door's overall condition. The appropriate signage should be present and hardware should be in good condition.
6. Remove anything that does not belong in the path of the Swing door. 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 or invite people to stop or stand in the door area.
7. Ensure the Header Cover, and all other hardware is properly secured.
8. Check for damaged or missing Weathering.
9. Check for damaged or missing Finger Guards and Guide Rails.
10. Tighten Latch Handles, Push Bars or Cart Bars (if equipped), in the event they become loose.
11. Ensure Flush Bolts and Door Latches operate smoothly.
12. Have the Full Automatic door system inspected at least annually by an AAADM certified inspector.

### SECTION 7.6: Sensor Check for Activating Side of Swing Door

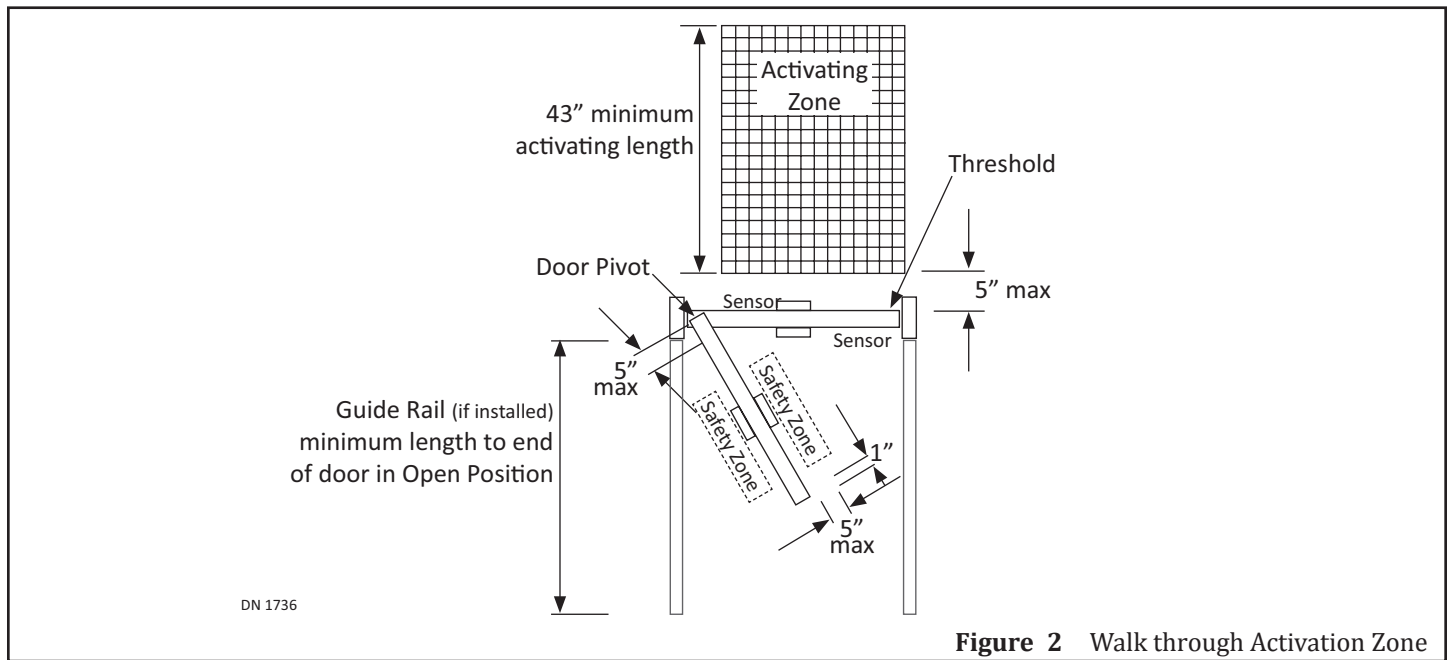
1. Walk toward the Swing Door at a normal pace. At about (4) feet away the Swing Door should start to open:
  1. The opening time of a Swing Door to 80 degrees shall not be less than 1.5 seconds.
  2. Door must remain fully open for a minimum of (1.5 seconds) after loss of detection.
  3. Closing time to Latch Check shall be a minimum of (2 seconds).
  4. Latch Check shall occur no less than 10 degrees, and the door shall close from that point no less than 1.5 seconds.
2. Stand motionless on the Threshold for at least (4) seconds. The door should not contact the pedestrian.
3. Stop in the Swing path and pause (10) seconds. The door should not contact the pedestrian.
4. Walk out of the Activating Zone.
  - a. After a brief time delay (at least 1-1/2 seconds), the door should fully close smoothly, without impact.
  - b. If two-way traffic, move toward swing side of door. Door should open well before the swing path is reached.
  - c. If the Swing door closes (1) foot per second or faster, adjustments must be made.

### SECTION 7.7: Sensor Check for Safety Side of Swing Door

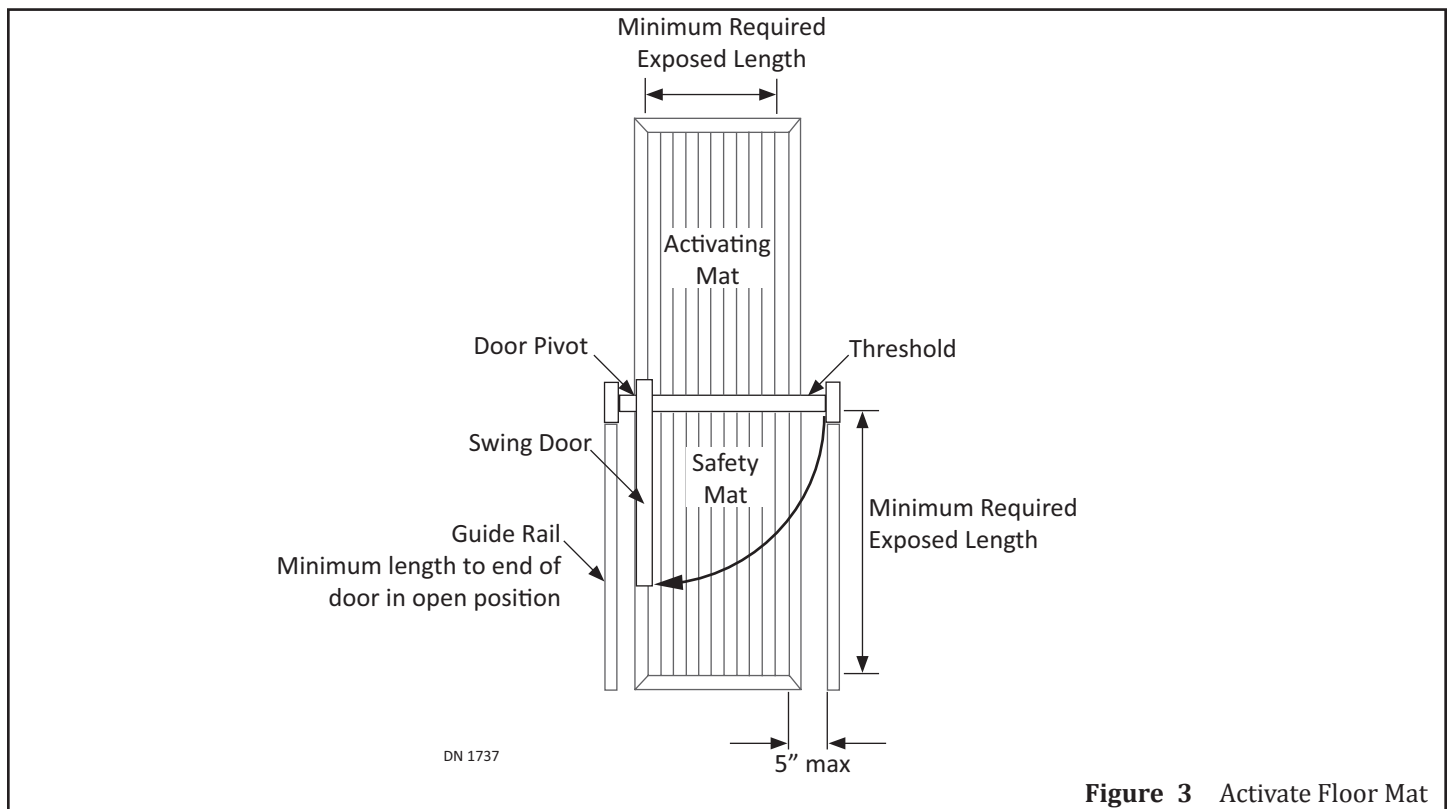
1. Walk toward the Safety side of Swing door. At the same time, have someone else approach the Activating side of the Swing door.
  - a. If the door is equipped with an overhead mounted presence sensor, as long as you are in the Safety area of the door, it should not open. Please see Figure 1.



- b. If the door is equipped with a door mounted presence sensor, the door may start to open but should reverse, stop, or slow down. Please see Figure 2.



**SECTION 7.8: Mat Activation Check for Activating Side of Swing Door**



1. Ensure Floor Mat is in (1) piece and secured with all screws required.
2. Walk onto the Activating Mat.
3. Continue to walk through the Threshold, onto the Safety Mat.
4. Remain motionless for (4) seconds. The door should not contact the pedestrian.

5. Step off the mat.
  - a. After a brief time delay (at least 1-1/2 seconds), the door should fully close without impact.
  - b. If the Swing door closes (1) foot per second or faster, adjustments must be made.
6. Go back and step onto the Activating Mat in a different place.
7. Repeat steps 2-6 several more times.

**SECTION 7.9: Mat Activation Check for Safety Side of Swing Door**



**CAUTION** If the Safety Mat is not working, the door may swing toward you without stopping.

The purpose of the Safety Mat is to hold the door open, or return the door to the open position when approached by a pedestrian from the other side. Safety Mats can be used for Two-Way Traffic and One-Way Traffic.

1. Ensure Safety Mat is in (1) piece and secured with all screws required.
2. With the Swing Door fully closed, walk onto the Safety Mat. At the same time, have someone else stand on the Activating Mat.
  - a. As long as someone is standing on the Safety Mat, the Swing door should remain Fully Closed.

**CHAPTER 8: SAFETY DECALS**

Doors shall be equipped with signage visible from either side of the door, instructing the user as to the operation and function of the door. The signs shall be mounted 50" +/- 12" (1270 mm +/- 305 mm) from the floor to the center line of the sign. The letters shall be 5/8 inch (16 mm) high minimum.

Decal	Description	
DO NOT Enter (side one) Directional Arrow (side two)	<ul style="list-style-type: none"> <li>▶ Directional Signs used to define Traffic Flow.</li> <li>▶ Adhere to swing door panel.</li> <li>▶ Must be visible from both sides.</li> </ul>	
Caution Automatic Door	<ul style="list-style-type: none"> <li>▶ Adhere to both sides of swing door panel.</li> <li>▶ Must be visible from both sides.</li> </ul>	
AAADM Safety Information Label	<ul style="list-style-type: none"> <li>▶ (1) Safety Information sign shall be adhered to Jamb Tube on Interior Side of Door Panel.</li> <li>▶ The sign shall be a minimum of 9 inches tall. Black lettering shall be a minimum of 10 point type on a white background. White lettering shall be a minimum of 10 point type on a blue background.</li> </ul>	