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# Low Energy Power Swing Doors

## 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.

**Attention:** A situation where material could be damaged or the function impaired.

*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.

**Notice:** An ecologically acceptable disposal of the installation is ensured if the different materials are separated and recycled. No particular measures are required for the protection of the environment. However, the relevant legal prescriptions applicable for the installation site have to be complied with!



## 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 checklist.

### **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 and ANSI Standard 156.19 (Low Energy).

## CHAPTER 4: GETTING STARTED

Automatic low-energy swinging door operators are designed for applications requiring ADA compliance or user convenience. They are available in single, pair or double egress configurations. This type of operator is usually activated with push plates. The unit includes the header, operator and drive arm.

### 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 156.19 (Used to cover Low Energy doors) applies.

### Section 4.3: Limited Warranty

NABCO Entrances Inc., for its Gyro-Tech product line, provides to its purchasing distributor a limited warranty on the equipment supplied by NABCO Entrances Inc. 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:

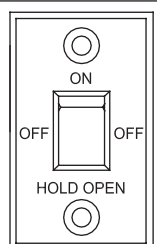
- ▶ Instruction on how to conduct the Daily Safety Check.
- ▶ Location of activation Switches and Push Plates with instruction of their use.
- ▶ Contact number to call for Service.
- ▶ Contact number to call for inquiries about the door system, and/or to report concerns.
- ▶ An AAADM inspection form, 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: 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.
- ▶ If equipped, Breakout Mode:
  - When the door (or door including a sidelite) is pushed into Breakout mode, check that the door will not activate.
- ▶ 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 or in connections between door and operator.

## CHAPTER 6: OPERATION

ON	When the switch is in ON position, all activation signals are accepted and the door is ready for operation.	
OFF	<ul style="list-style-type: none"> <li>▶ When the switch is in the OFF position, activation signals are not accepted by the Controller.</li> <li>▶ The OFF position <b>does not</b> shut power OFF.</li> </ul>	
HOLD OPEN	<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>	

## 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** In order to guarantee reliability of the installation, any components showing signs of wear must be replaced as a preventive measure.
- CAUTION** If a Sensor is not working, the door may swing toward you without stopping.

**Attention:** In the event any type of object needs to be removed from a Sensor Safety Zone (vicinity), the Sensor must “relearn” the zone before resuming normal operation. Relearn may take a minute or two.


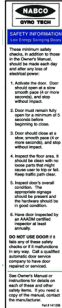
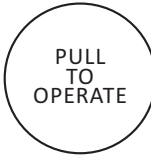
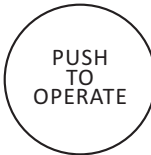

The best time to perform a Daily Safety Check is early in the morning while pedestrian traffic is still restricted from Sensor activating zones. The purpose of a Daily Sensor Check is to ensure pedestrian safety and Owner protection.

1. Ensure the Power Breaker is switched ON. Do not switch Power Breaker ON and OFF too quickly.
2. Ensure the (On/Off/Hold Open) Rocker switch is set to “ON”.
3. Activate the Swing Door.
  1. Door should open at a slow smooth pace (4 or more seconds), and stop without impact.
  2. Door must remain fully open for a minimum of (5 seconds) before beginning to close.
  3. Door should close at a slow, smooth pace (4 or more seconds), and stop without impact.
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. If Equipped: Test Emergency Break Out. In Break Out mode, the door must not activate. Call your supplier for details.
10. Have the Low Energy automatic door system inspected at least annually by an AAADM certified inspector.

## CHAPTER 8: SIGNAGE

Doors shall be equipped with (a) decal(s) visible from either side, instructing the user as to the operation and function of the door. The decal shall be mounted 50 inches, +/- 12 inches, from the floor to the centerline of the decal. The letters shall be 5/8 inch high minimum.

*Note: For additional decals or labels for automatic doors, call your automatic door supplier.*

Decal	Description	
Activate Switch to Operate	<ul style="list-style-type: none"> <li>▶ (2) Activate Switch signs, shall be adhered to both sides of door, with the words “Automatic Caution Door and Activate Switch to Operate” to be clearly visible.</li> <li>▶ The sign shall be a minimum of 6 inches in diameter. Black lettering shall be a minimum 5/8 inch tall on a yellow background. White lettering shall be a minimum 1/2 inch tall on a blue background.</li> </ul>	
AAADM Safety Information Label (Low Energy Swing Doors)	<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>	
Pull to Operate	When Push/Pull is used to initiate the operation of the Door Operator	
Push to Operate		
Easy Open Door Push to Operate	When Power Assist is used to initiate the operation of the Door Operator	
Easy Open Door Pull to Operate		