

## ESA500

Fixed sidelite/all glass automatic sliding door  
with ESA II controller

### Owner's Manual

DL-0741-050 05-2022

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dormakaba 

## **Important Installation Instruction**

**ALL INSTALLATIONS SHOULD ONLY BE PERFORMED  
BY TRAINED OR AUTHORIZED PERSONS**

**Warning** - To reduce the risk of injury:

- 1. Carefully Read And Follow All Installation Instructions**
2. This unit should only be installed in a rough opening capable of providing proper structural support. Have a qualified service person make repairs to surrounding electrical cables and/or other surrounding structure to ensure proper anchoring of unit before installation.
3. Always disconnect the power supply before servicing.

**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.

## **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 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**

dormakaba products are distributed through a nationwide network of dormakaba authorized distributors for sales, installation and service.

## **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.

## Electric Sliding Door Installation Instructions

### Instructions to Installer

We are pleased that a dormakaba automatic sliding door has been chosen for this installation. dormakaba carefully designed, tested and built the door of high quality materials as it will provide many years of service.

Now the door must be installed and adjusted properly to ensure its proper operation and safe use.

To install and adjust the door for proper and safe operation, the installer must carefully read this instruction book before proceeding, then follow the instructions exactly.

The door is designed to be installed only by trained and knowledgeable installers. The installation technician should be experienced in the installation of automatic entrances. He should know all local code requirements and be familiar with the requirements of the current ANSI A 156.10 Standards for Power Operated Pedestrian Doors.

After installation, the door must be adjusted to conform with dormakaba recommendations and all code requirements. Be sure to carefully study the requirements in these instructions.

After installation and adjustment, the installers final responsibility is to properly instruct the owner in the safe use of the door. He must also present the owner with the ESA Owner's Manual and carefully explain how to perform the daily safety check test.

Each step of the installation, adjustment and instructions are important for proper and safe use of the door being installed. If there are any questions about any items contained in these instructions, call the local dormakaba USA, Inc. distributor for assistance.

## What You Should Know

Be sure that a dormakaba distributor 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 the door in a safe manner. Call your local authorized dormakaba distributor for repair.

## Daily Safety Check

Perform these 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.



Figure 1

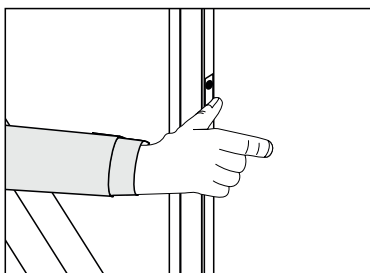


Figure 2

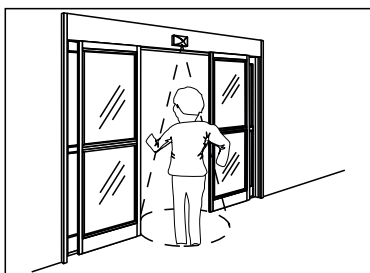


Figure 3

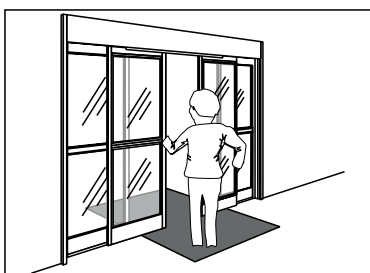


Figure 4

## Motion Detector Actuation

1. Check electronic sensor by walking toward the door opening at a moderate speed. Door should start opening when you enter the motion zone and should slide open smoothly, then stop without impact. Repeat on other side of opening. Move slowly through the door. 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 reopen 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 time delay (at least 1-1/2 seconds) the door should slide closed smoothly and 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 face of the door and 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 (if applicable) with your hand and stand motionless for several seconds. (See Figure 2). The door should remain open. Remove your hand and the door should close after the 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 3)

## Floor Mat Actuation

6. Step on the "opening" mat in several places. Door should slide open smoothly and stop without impact. (See Figure 4).
7. 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.

8. Check the mat molding and threshold. It should be complete and secured with all screws required.
9. 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

### Disconnect the appliance before servicing.

#### Decals

Door should have decals properly displayed. Each leaf should have a decal that includes the statements:

"AUTOMATIC DOOR" with an arrow (See Figure 1) should be visible from each side of Door, OR

If the door is designed for one-way traffic, the door should have an arrow on the egress side and "DO NOT ENTER" on the controlled traffic side of door. (See Figure 2)

Each sidelite should have a decal visible from the sliding leaf side of the door that reads "STAND CLEAR AUTOMATIC SLIDING DOOR" (See Figure3) This decal is not required on fully pocketed door.

#### Closing Speed

Sliding doors must be adjusted to comply with ANSI A156.10 - 2005.

The operator and the ES-A control-board are self-learning and self-monitored. All necessary adjustments in accordance to ANSI A156.10 are made automatically during the initial self-learning cycle of the operator. No manual adjustments are necessary.

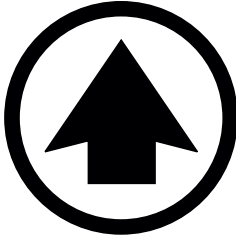


Figure 1

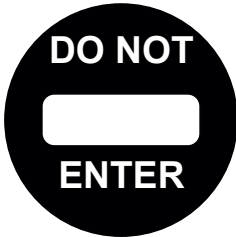


Figure 2

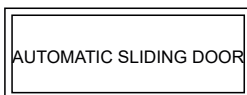
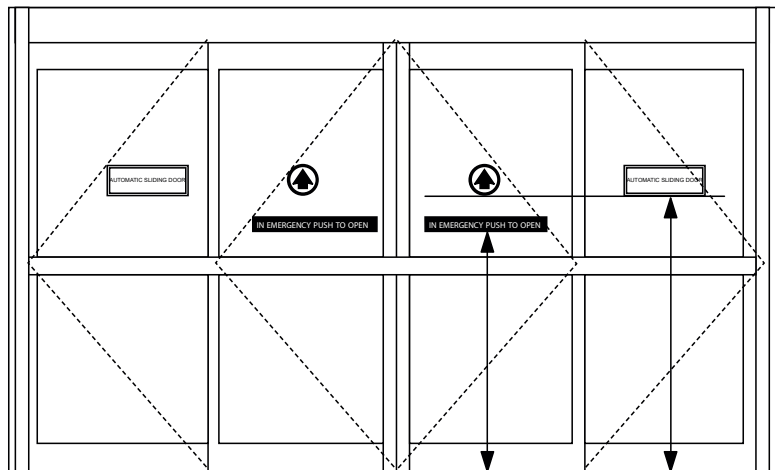


Figure 3



Decal  
Centered on  
the Door at  
36"-60"  
Above Finished  
Floor

Decal  
Centered on  
the Door at  
Approximately  
58" (1473 mm)  
Above Finished  
Floor



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