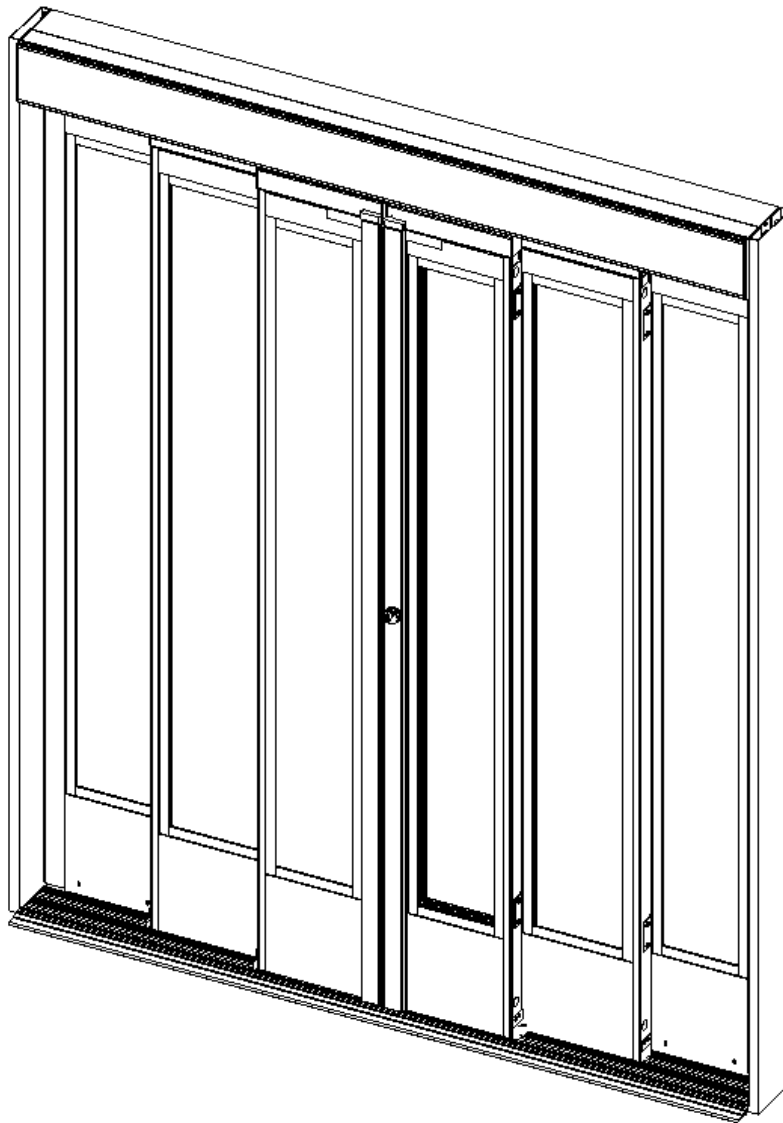


SL500 T67 Door Package

Owners Manual



1014526-US Rev 1.0 – Issue DATE 9-15-2015

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Instructions for safe operation



- Failure to observe the information in this manual may result in personal injury or damage to equipment.
- To reduce the risk of injury of persons - use this operator only with pedestrian doors.
- Do not use the equipment if repair or adjustment is necessary!
- Disconnect the supply when cleaning or other maintenance is to be carried out!
- The operator can be used by children age 8 and above, and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they have been given supervision or instruction by a person responsible for their safety concerning safe operator use and the possible hazards involved. This does not however prevent those persons to use the door where the operator is installed.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not let children climb on or play with the door or the fixed/remote controls.

Congratulations on your new automatic door!

ASSA ABLOY Entrance Systems has developed automatic doors for more than 50 years. State-of-the-art technology and carefully tested materials and components provide you with a superior product. As with all other technical products, your automatic door requires periodic maintenance and service.

It is essential that you know your automatic door (system) and that you recognize the importance of maintaining it in compliance with applicable standards for safety.

Your local ASSA ABLOY Entrance Systems-authorized representative is familiar with these standards, as well as all applicable local codes and ASSA ABLOY Entrance Systems recommendations for power-operated pedestrian doors. Service and adjustments performed by your ASSA ABLOY Entrance Systems-authorized representative, will ensure safe and proper operation of your automatic door unit.

Electronic equipment reception interference

The equipment complies with the European EMC directive (US market FCC Part 15), provided installed according to Installation and Service manual.

The equipment may generate and use radio frequency energy and if not installed and used properly, it may cause interference to radio, television reception or other radio frequency type systems.

If other equipment does not fully comply with immunity requirements interference may occur. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Relocate the receiver with respect to the equipment.
- Move the receiver away from the equipment.
- Plug the receiver into a different outlet so that equipment and receiver are on different branch circuits.
- Check that protective earth (PE) is connected.

If necessary, the user should consult the dealer or an experienced electronic technician for additional suggestions.

ASSA ABLOY Entrance Systems products are equipped with electronics and may also be equipped with batteries containing materials which are hazardous to the environment.

Disconnect power before removing electronics and battery and make sure it is disposed of properly according to local regulations (how and where) as was done with the packaging material.

Product liability

According to regulations, the following are the responsibility of the owner or caretaker of the equipment

- that the equipment operates correctly, so that it gives sufficient protection in regard to safety and health
- that the equipment is operated and regularly maintained, inspected and serviced by someone with documented competence in the equipment and in applicable regulations
- that a Log Book is kept of inspection, maintenance and service records including the provider
- that inspection covers the emergency opening function (when applicable)
- that the closing force is appropriate for the door size on fire-approved door systems (when applicable)

Warranty

ASSA ABLOY Entrance Systems warrants its products to be free from defects in material and workmanship under intended use and service for a warranty time of 12 months, beginning at time of delivery. This warranty extends only to the original buyer of the equipment.

ASSA ABLOY Entrance Systems warrants that the software will operate substantially in accordance with its functional descriptions and that it has been recorded on non-defective media.

The ASSA ABLOY Entrance Systems warranty does not apply to

- That the software will be error-free or operate without interruption
- General wear and tear on the system
- Fuse, disposable batteries and glass damage
- System deviations caused by installer other than ASSA ABLOY Entrance Systems
- System that has been altered or damaged by vandalism or misuse
- System that has been additionally equipped with non-ASSA ABLOY Entrance Systems original branded parts and/or spare parts
- Unrequired visits due to poor client communication (door working when our technician arrives, reset, power discontinuation)
- Adjustments (closing and opening speed and also detection field radars) due to customer re-quests (excludes operational adjustments thought to create a hazard)
- Water damage
- Adverse weather conditions
- Any damage caused, directly or indirectly, by a circumstance beyond the control of the applicable company within ASSA ABLOY Entrance Systems, such as industrial dispute, fire, natural disaster, war, extensive military mobilization, insurrection, requisition, seizure, embargo, restrictions in the use of power and defects or delays in deliveries by sub-contractors caused by any such circumstances

Please note:

- Non-compliance with manufacturers care and maintenance recommendations may void the warranty.
- ASSA ABLOY Entrance Systems -authorized resellers shall extend this warranty to end-users only, but have no authority to extend a greater or different warranty on behalf of ASSA ABLOY Entrance Systems.
- A service agreement with ASSA ABLOY Entrance Systems will help secure the availability of a fully operational system and will give priority at call-out, thus minimizing the time that the equipment is unusable.

Service

Regular inspections by a trained and qualified person, and the frequency of service occasions, should at minimum be made according to national regulations or industry standard, in the absence of a national regulation. This is especially important when the installation concerns a fire-approved door or a door with an emergency-opening function. To extend the life of your investment and ensure safe and reliable operation of the door, we recommend a minimum of 2 visits per year or more, depending on usage and operating conditions. Environmental aspects shall also be considered.

As your entrances are part of your business flow, there's every reason to keep them working well. ASSA ABLOY Entrance Systems offers you a maintenance and modernization expertise to rely on. Our Maintenance Programs and Modernization Services for entrance automation is backed by an extensive expertise for all types of pedestrian- and industrial door and docking systems, independent of brand. At your disposal is a team of dedicated expert technicians, proven through decades of maintenance, service and satisfied customers.



Intended use

The Besam SL500 T67 is designed for an overhead-concealed installation between two vertical jambs or surface applied. The header holds the drive and control units and supports the sliding doors, Sidelites and transom above the operator, if required.

A Besam SL500 operator ensures all-around safety. It can be combined with the full range of ASSA ABLOY Entrance Systems safety units, such as presence and motion sensors.

It is easy to install for both new construction and retrofit application and can be adapted to a wide range of overhead concealed or surface applied installations.

The door is designed to offer continuous use, a high degree of safety and maximum lifetime. The system is self-adjusting to the effects caused by normal variations in the weather conditions and to minor friction changes caused by e.g. dust and dirt.

For installation and maintenance see Installation and Service manual 1014525.

Daily Safety Checklist



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.

Motion Detector Actuation



1. Check electronic sensors by walking towards door opening at moderate speed (referencing first picture). Door should start opening when you are about 5 foot (1.5 m) from the door, should slide open smoothly and stop without impact. Repeat on other side of opening. Move slowly through the door (6 inches per second [15 cm/s]). The door should remain open.
2. 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 (150 mm) of fully closed. The sensor should re-open the closing door if an object is detected a minimum of 24 inches (0.6 m) from the door.
3. Step out of the sensor zone. After a brief time delay (at least 1.5 seconds), 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 (300 mm/s).
4. Observe traffic routing to door. Plan traffic routing so persons will approach the door straight on and not from an angle.
5. 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 2.5 feet (0.8 m) from the door face.
6. Open the door. Cover each doorway-holding beam, with your hand and stand motionless for several seconds. 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.

General Safety

Decals

The door should have decals properly displayed. A set of **AUTOMATIC DOOR** decals should be applied to both sides of each sliding leaf. They are to be applied with arrows pointing up on a centerline of 58 in $\pm$ 5 in (147 cm $\pm$ 13 cm) to each moving leaf. There should also be decals include the statements: "**AUTOMATIC DOOR**" (in letters 0.5 in high, minimum) and "**IN EMERGENCY – PUSH TO OPEN**" (see figures).

Closing Speed

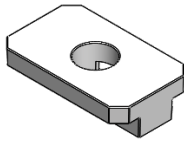
Horizontal doors must be adjusted within the following limits to comply with ANSI A156.10. The closing time of the door must not be less than the minimum time as shown in the following table. This closing time is taken from a point one inch (25 mm) from full open to a point two inches (50 mm) from fully closed. Example: If a 30" 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. 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 30 pounds.

Maximum Closing Speed		- 1 Foot Per Second
Nominal Door Opening		Minimum Closing Speed
Single Slide	Bi-Part	
	48"	2 Seconds
	60"	2.5 Seconds
36"	72"	3 Seconds
42"	84"	3.5 Seconds
48"	96"	4 Seconds

Emergency Breakout

Test by manually pushing door at lock area in direction of emergency exit and release door. The door should stop operation immediately when door is released. Make sure, after test, that door panel or panels are properly related.

Identification



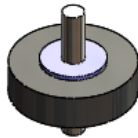
Part # 1013796
White T-Block



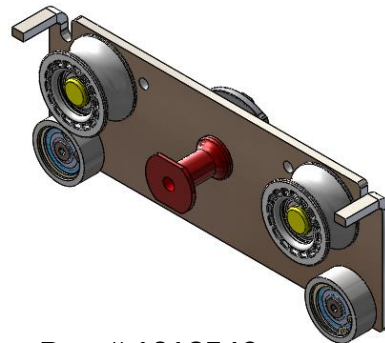
Part # 50-20-135
Track Cap



Part # 1014348
Rubber Cover Kit



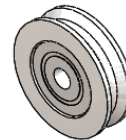
Part # 1013787
Spacer Wheel Assembly



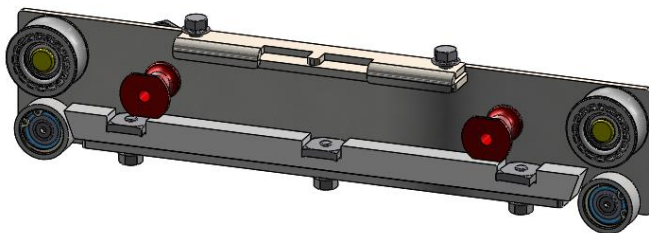
Part # 1012546
Carriage Wheel



Part # 1012969
Coated Cable



Part # 1012970
Coated Cable Pulley



Part # 1013804
Carriage Wheel

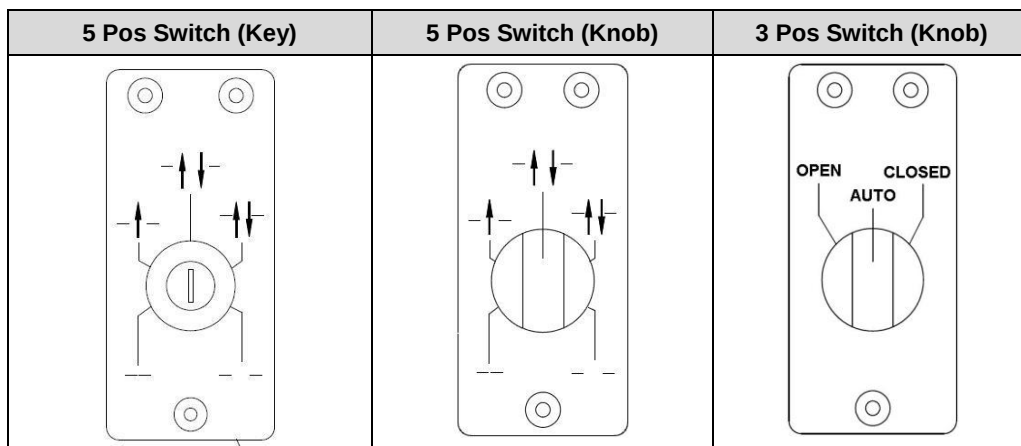


Part # 1701406
Tooth Belt

Program Selectors and Functions

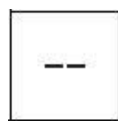
The functions of the door are selected with mechanical or key Program Selectors:

- 5 Position with Key uses 1/2" spacer or can be surface mounted
- 5-Position Mechanical Switch, flush or surface mounted
- 3-Position Mechanical Switch, flush or surface mounted



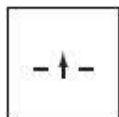
Program

Program Select Functions



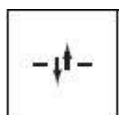
OFF
(Closed)

The inner and outer activation units are disconnected. The door is locked if an electromechanical locking device has been installed. The door can be opened with an emergency push-button/key switch (if installed).



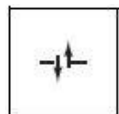
EXIT
(One Way Traffic)

Passage through doorway from one side only. The door is locked if an electro-mechanical locking device has been attached. The door can be opened with an activation to INNER IMPULSE 2 or KEY IMPULSE 6.



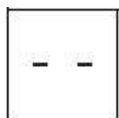
AUTO

Two-way traffic, normal operation of the door. The door can be opened with the inner and outer activation units and with an emergency push-button/key switch (if installed).



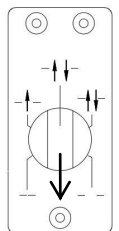
AUTO partial

Two-way traffic. The door can be opened partially with the inner and outer activation units and with an emergency push-button/key switch (if installed).



OPEN

The door is permanently held open.



RESET

Momentarily (5 seconds), set the Program Selector as shown and then place at "AUTO" or "OFF" position. The operator makes a system test of the battery, electro-mechanical lock, watchdog relay and closed position. It also reads FS switch settings, CSW distance and Time Delay. After closing, the operator is reset and ready for normal operation again.

Door Locking Procedures

To Lock

1. Stand clear of all opening detection fields and allow door(s) to close completely.
2. Turn door Program Selector to the OFF position (see Program Selector functions).
3. For interior locking – door(s) can now be secured with lock mechanism.
4. For exterior locking – manually slide doors open, exit, close manually and secure with key.

To Unlock

1. Unlock door(s).
2. Manually slide door(s) open.
3. Turn Program Selector to desired function (see Program Selector functions).

Emergency Function



In the event of an emergency, the sliding doors are also capable of swinging into a breakout position by exerting force at the lock area of the door (see emergency decal).

There is a remote possibility that the sliding doors could be accidentally struck by carts and be put into this emergency mode. The operator's function is normally shut off whenever positioned in this mode and will require resetting of all door leaves to their proper position.

The resetting procedure is to grasp the sliding door at the lock end and slide it open slightly, swing door fully closed, align upper door latch and snap into position.

Repeat procedure on all doors not in the fully closed position. Doors' operation will be turned on automatically after a delay unless Program Selector is in "OFF" position.

Troubleshooting

Problem	Solution
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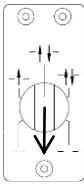
The door does not open

- The motor does not start	Change the setting of the Program Selector.
	If breakout unit PSB is installed, check that the door leaves and sidelites are completely closed.
	Check the main switch.
-The motor starts but stops during opening	Unlock the mechanical locks.
	Clean the floor guide.
	Check for objects jammed under the door.

The door does not close

-The motor does not start	Change the setting of the Program Selector.
	If door has presence photocells, clean the protecting covers.
	If breakout unit PSB is installed, check that the door leaves and sidelites are completely closed.
	Check the main switch.
-The motor starts but stops during closing	Clean the floor guide.
	Check for objects jammed under the door.

The door moves slowly

	Prevent traffic using the door and allow it to do a complete opening and closing cycle with low speed.
	Reset the operator by momentarily (5 seconds) set the Program Selector as shown and then place at "AUTO" or "OFF" position.
If any problems continue, please contact your ASSA ABLOY authorized representative.	



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

Regular Maintenance and Safety Checks

To help keep your doors in good operating order and to avoid malfunction and risk for injuries, periodic maintenance should be performed.

Do not use door if repair or adjustment is necessary.

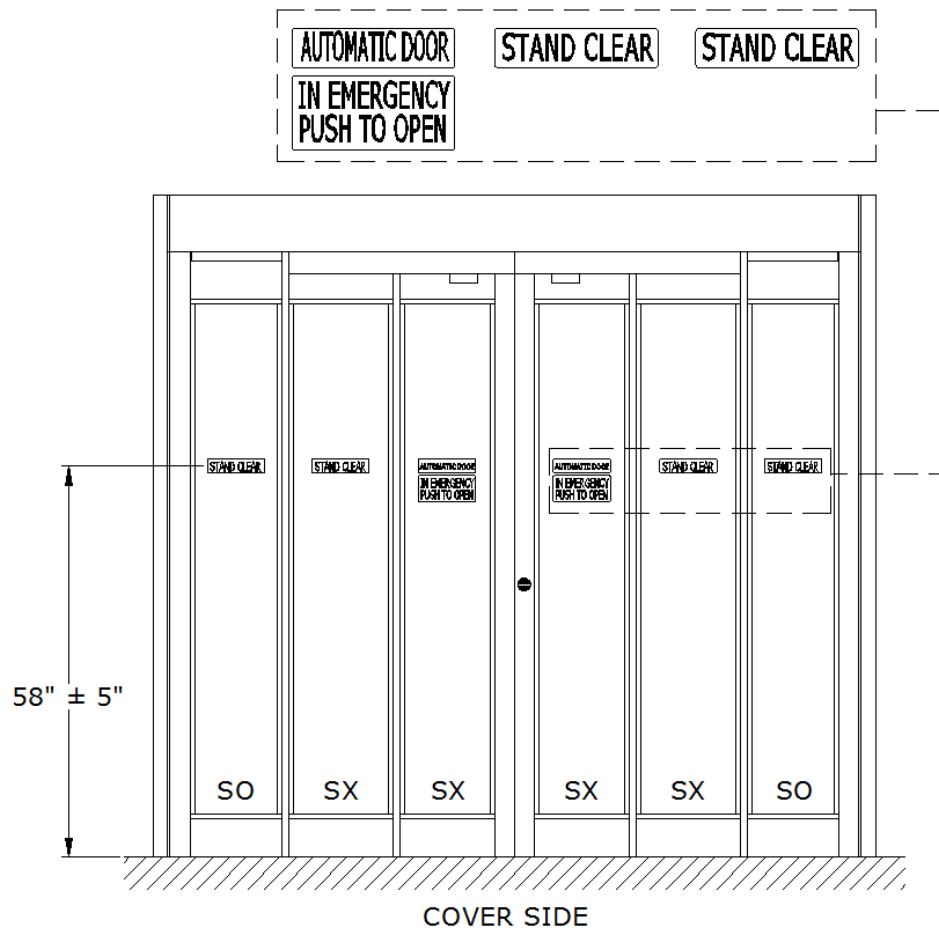
Disconnect power supply when cleaning or other maintenance is being carried out.

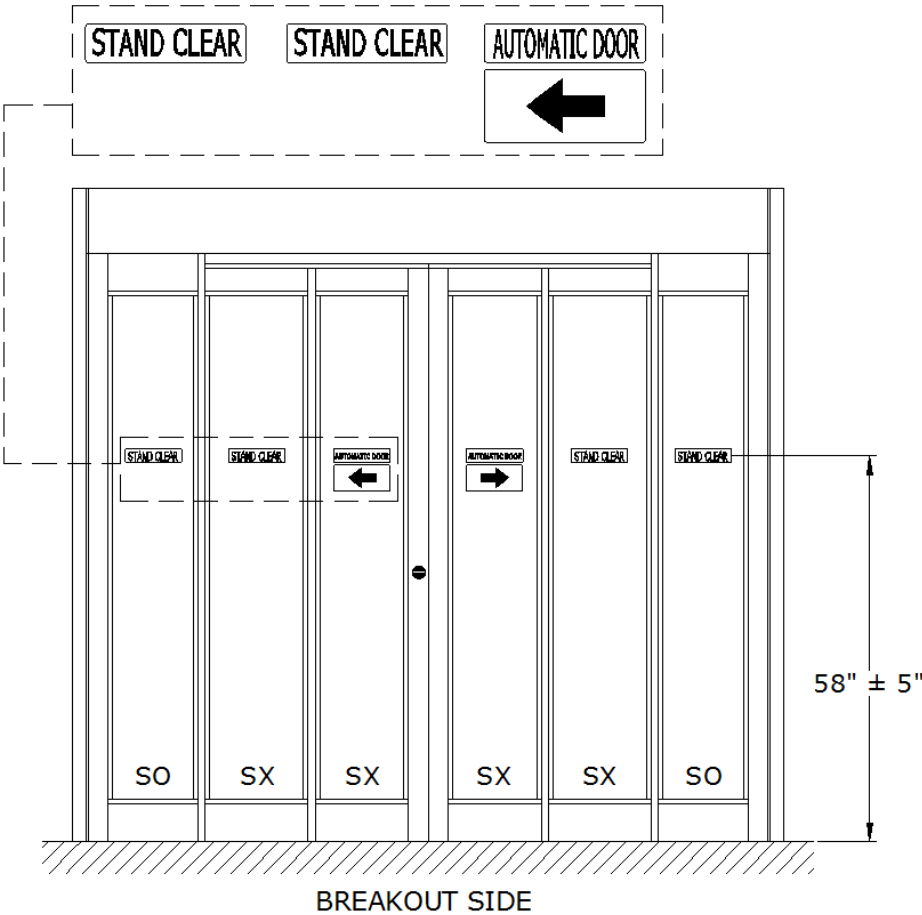
Topic	Action	If Problem Occurs
Visibly Check	Activate your operator and check visually, fastening of: • operator including cover • cables • Program Selector(s) • door and glass (stability)	
Inspect	Also inspect your operator and check visually for: • condition of door seals and weather stripping • condition on glazing rubbers • finger protection • and finally that the complete door runs properly and closes slowly in a smooth way.	 
Check	Set the Program Selector to the OFF position and check that the operator and electromechanical lock (if fitted) work together. Also check that the lock really secures the door.	
Check	*Activate the “manual activation units”, if any, and walk towards the door. Check that the door has opened sufficiently while you pass the entrance/exit. *Activate the “automatic activation units”, if any, and walk towards the door. Check that the door has opened sufficiently while you pass the entrance/exit.	
Check	Check the safety sensors if any. If you are unsure of which type of sensor you have, please contact your ASSA ABLOY representative.	
Escape Doors - Fire Doors - By law, these tests must be performed regularly by trained personnel.	*If the operator is equipped with breakout system, set the Program Selector to Auto mode. Push the door manually in escape direction and make sure that nothing prevents the door from being open. Also, make sure the escape route is free for use. After the test, restore the door(s). *If the operator is equipped with automatic opening system, shut off the power and the door shall open and remain open. Restore power and the door shall close. Let the door close after an impulse and make sure that nothing prevents the door from closing and locking (if demanded).	 
 = Contact your ASSA ABLOY representative. For contact information, see last page.		
 = Respond appropriately.		

Housekeeping

Task	Action	Effect
Floor Guides 	Clean with brush and cloths	To ensure proper door function
Door and Glass 	Clean with clean water or neutral cleaning fluid and sponge	• Do not expose windows, doors or profiles to alkalis. Both aluminum and glass are sensitive to alkalis. • Do not clean with high-pressure water. Operator, Program Selector and sensor may be damaged and water may enter into the profiles. • Do not use detergents or abrasive additives. • Do not scrub with materials like Scotch-brite, as this will cause mechanical damage.
Door area 	Check for hazards	To ensure that they are free from tripping or slipping hazards.
Door Panels 	Check glass	To ensure that they are free from broken or cracked glass. (There should be no bulletin boards, literature racks, merchandise displays or other attractions in the door area that could contact the glass in the door.)

Signage





ASSA ABLOY

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