

Owner's Manual

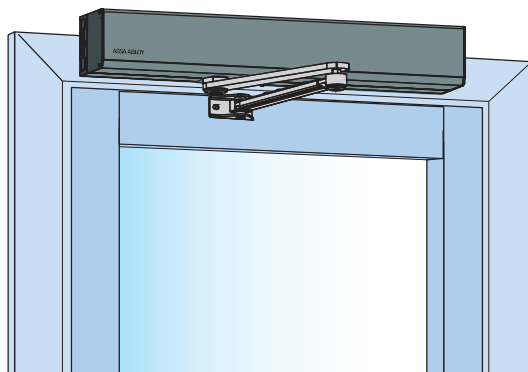
Swing Door Operator

ASSA ABLOY SW200

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions



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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 to persons - use this operator with single or double pedestrian swinging or folding doors only.
- Do not use the equipment if repair or adjustment is necessary.
- Disconnect supply when cleaning or other maintenance is to be carried out.
- The operator can be used by children over 8 years of age if they have been instructed by a person in charge of their safety.
- The operator can be used by children 8 years of age or younger if they are supervised by a person responsible for their safety.
- The operator can be used by persons with impaired physical, sensory or mental capacity if they have been instructed by a person in charge of their safety.
- Cleaning and user maintenance shall not be made by children.
- Do not let anyone climb on or play with the door or the fixed/remote controls.
- The doorset can be operated automatically by sensors or manually by activators. It can also be used manually as a door closer.

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 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.

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 electronics technician for additional suggestions.

Environmental requirements

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 the provided "Service Log Book" and "Site Acceptance Test and Risk Assessment" documents (PRA-0007) are kept available for maintenance and service records
- 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 requests (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

Inspections should be done regularly by a trained and qualified person. The frequency of these inspections should be according to national regulations (or according to industry standard if there are no national regulations). 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 a 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 door is designed to offer continuous use, a high degree of safety and maximum lifetime.

The ASSA ABLOY SW200 is an automatic swing door operator developed to facilitate entrances to buildings and within buildings.

The ASSA ABLOY SW200 is a combination of a Heavy Duty (HD) operator for large heavy doors as well as an low energy electromechanical operator (LE), mainly suitable for almost all types of internal swing doors - but also external doors. This operator will be mainly used in the health care sector.

The ASSA ABLOY SW200 swing door operator can be combined with a full range of sensor products providing swing door safety.

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 escape in emergency situations the doorset is opened manually.

For installation and maintenance see Installation and Service manual 1007718.

Technical specification

Manufacturer:	ASSA ABLOY Entrance Systems
Address:	1900 Airport Road, Monroe, NC 28110, US
Type:	ASSA ABLOY SW200
Mains power supply:	120 V AC +10/-15%, 50/60 Hz
Power consumption:	Max. 300 W
Standards:	The ASSA ABLOY SW200 complies with ANSI/BHMA.

How the ASSA ABLOY SW200 works

The swing door operator ASSA ABLOY SW200 uses a DC motor which is connected to the output shaft by a combination of a bevel gear and spur gears. The arm system that is connected to the output shaft opens the door in a wall mounted application.





There is also an adjustable spring mechanism connected to the output shaft. During opening of the door, the clock spring is tensioned by the rotation of the output shaft. During the closing cycle, the accumulated spring force is acting in the closing direction. The spring force can be adjusted so there is appropriate force to close the door when it is operated manually or in case of a power failure.

To activate the operator you can use a manual activator (elbow switch) or an automatic activator (radar device). It is also possible – where local standards allow – to activate the operator by just pushing the door, if Push & Go is selected.

After the door has been activated it will open and stay open for a specified Hold Open Time (HOT). When the HOT has elapsed the door will close.

The ASSA ABLOY SW200 can be set in three or four different modes, depending on optional programme selector type, see table below.

In fully manual use (or in case of a power failure) the ASSA ABLOY SW200 acts as a normal door closer.

Position	Function
 OFF	The door is closed. The door cannot be opened with inner and outer activation units. The door is locked if an electromechanical locking device has been fitted. The door can be opened with a key switch (if fitted).
 EXIT	Passage from inside only. The door is normally locked if an electromechanical locking device has been fitted. The door can only be opened with the inner activation unit and with a key switch (if fitted).
 AUTO Normal position	The door can be opened with the inner and outer manual and/or automatic activators. The electric strike, if fitted, is open.
 OPEN	The door is held permanently open by the motor.

ASSA ABLOY SW200 Variations











ASSA ABLOY SW200 -SA:	Surface applied application in 5 1/8" Wide x 4 15/16" high header
ASSA ABLOY SW200 -SA-6X6:	Surface applied application in 6" Wide x 6" high header
ASSA ABLOY SW200 -OHC:	OHC application in 6" Wide x 6" high header
ASSA ABLOY SW200 -OS:	OHC Offset Pivot application in 6" Wide x 6" high header
ASSA ABLOY SW200 -Fold:	OHC Fold application in 6" Wide x 6" high header
ASSA ABLOY SW200 -BL:	OHC Bottom Load application in 6" Wide x 6" high header

Regular safety checks

To help you fulfil the national/international requirements and to avoid malfunction and risk for injuries, we have provided the following checklist.



Do not use if repair or adjustment is necessary.

Daily Action		If problem occurs
Activate your operator and check <i>visually</i> , fastening and any damage of <ul style="list-style-type: none">operator ①arm system ②position switch ③hinges ④door and glass ⑤		
Also inspect your operator and check <i>visually</i> for <ul style="list-style-type: none">sharp edges on the door leaf and door frame (if any) ⑥condition of door seals ⑦finger protection ⑧pivot ⑬and finally that the complete door runs properly and closes slowly in a smooth way		 
Set the programme selector in OFF mode and check that the operator and lock work together. Also check that the lock really secures the door ⑨.		
Activate the manual activation units ⑩ if any, and walk towards the door. Check that the door has opened sufficiently while you pass the entrance/exit. Then proceed with the automatic activation units ⑪ in the same way.		
Check the non-monitored safety sensors ⑫ if any, by standing in the swing path and activate the operator. The door must not hit you when opening nor when closing. If you are unsure of which type of sensor you have, please contact your ASSA ABLOY representative.		
Escape doors	By law, these tests must be performed regularly by trained personnel.	Set the programme selector in AUTO mode. Push the door manually in escape direction and make sure that no object or function will prevent the door from opening. Also make sure the escape route is free for use.  
Fire doors		Let the door close after an impulse and make sure that no object will prevent the door from closing and locking (if demanded).  
See page 10 for more information about safety checks.		

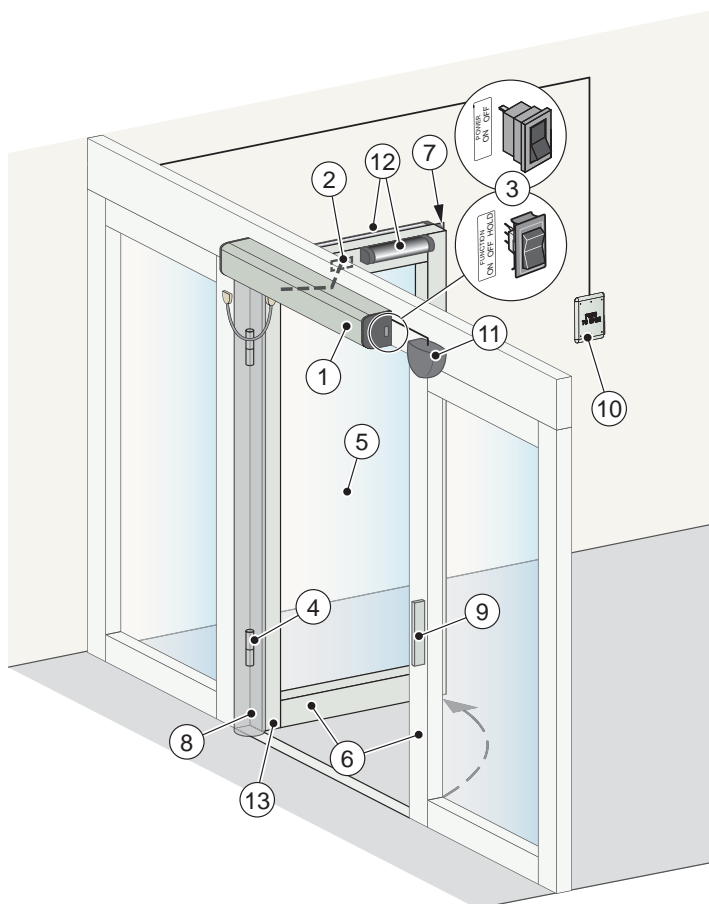


= Contact your ASSA ABLOY representative. For contact information, see last page.



= Take appropriate measures.

FUNCTION AND VISUAL INSPECTION



Surface Applied shown

CLEANING

The best way to remove dust and dirt from the ASSA ABLOY SW200 is to use water and a soft cloth or a sponge. A gentle detergent may be used. To maintain the quality of the surface treatment, the surfaces should be cleaned once/four months period. The cleaning should be documented. To avoid damages to the profiles the brushes/weather stripping must be vacuum-cleaned weekly.

- Do not expose windows, doors or profiles to alkalis. Both aluminium and glass are sensitive to alkalis.
- Do not clean with high pressure water. Operator, programme selector and sensor may be damaged and water may enter the profiles.
- Do not use polishing detergent.
- Do not scrub with materials like Scotch-brite, as this will cause mechanical damage.

DAILY SAFETY CHECK

Perform these safety checks daily on each automatic swinging door to ensure your customers' safety and your own protection.



If safety sensor is not working, door may swing at you without stopping.

Motion Detector Actuation/Presence Detection Safety

- 1 Check electronic sensor by walking toward the door opening. The door should start opening when you are about four feet from the door, and should swing open smoothly and stop without impact. Walk slowly through the door, (about 6 inches per second) the door should remain open.
- 2 Step out of the sensor zone. After a brief time delay (at least 1½ seconds), the door should close to 10 degrees from fully closed, then noticeably slow down and take at least 1½ seconds for the final 10 degree 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.

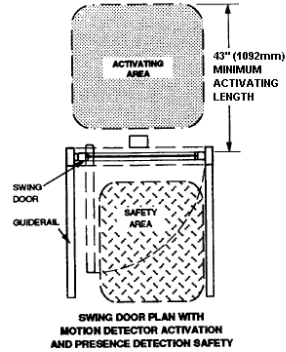


Figure 1

Floor Mat Actuation/Floor Mat Safety

- 1 Step on the opening 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 four seconds. The door should remain open. Repeat at several locations on the mat, see Figure 2.
- 3 Step off the safety mat. After a brief time delay (at least 1½ seconds) the door should close to 10 degrees from fully closed, then slow down. The last 10 degrees of closing should be noticeably slower (at least 1½ 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.

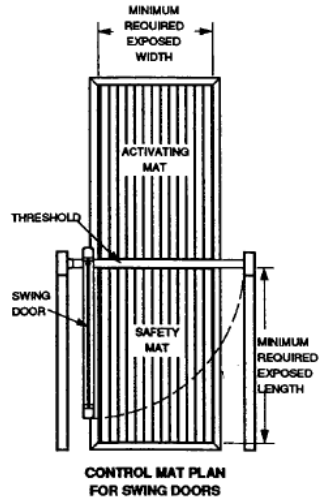


Figure 2

DAILY SAFETY CHECK	
5	Check the mat molding and threshold. It should be complete and secured with all required screws.
6	<p>If the door has motion detector activation and floor mat safety, one of the following three requirements must be met, see Figure 3.</p> <ul style="list-style-type: none">• Five inches of visible safety mat must extend through the door opening onto the approach side.• Provide a photoelectric (door hold open beam) across the door opening on the approach side.• The adjustable time delay in the door operator must be set to at least 4 seconds.
<p>Note: Do Not move very heavy objects over floor mats.</p>	

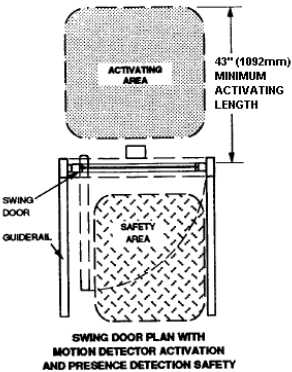


Figure 3

GENERAL SAFETY

- 1 Guide Rails and Lock Stile – Check that the guide rails or other barriers or separators are present (two per swing door side) and firmly anchored, (see Figures 4, 5, 6).
With the door open, grasp the lock stile of the door and attempt to move vertically and horizontally. There should be no looseness in the door pivots or in the connections between the door and operator.
- 2 Housekeeping – Check the door area for tripping or slipping hazards. Check all door panels for broken or cracked glass. Panels should be made of safety type material. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area where people could be hit by the door.
- 3 Traffic Patterns – Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly on to the end of the mat.
- 4 Inspect the finger guard to ensure that it is secure and in good repair.

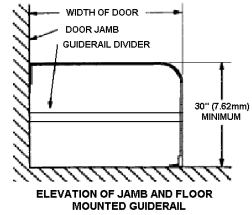


Figure 4

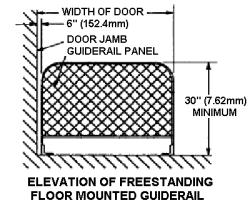


Figure 5

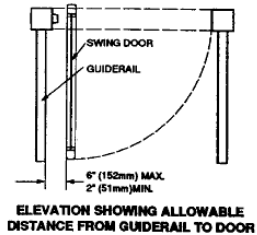
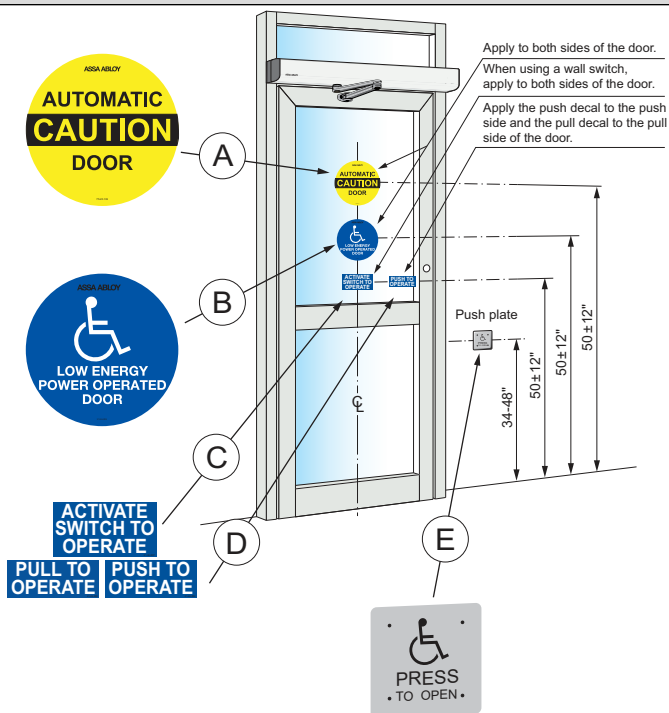


Figure 6

Note: Regardless of which activating device is used, if you have a problem you cannot correct, turn off the door operating equipment and call your service representative.

SIGNAGE according to ANSI /BHMA A 156.19 (Low energy)



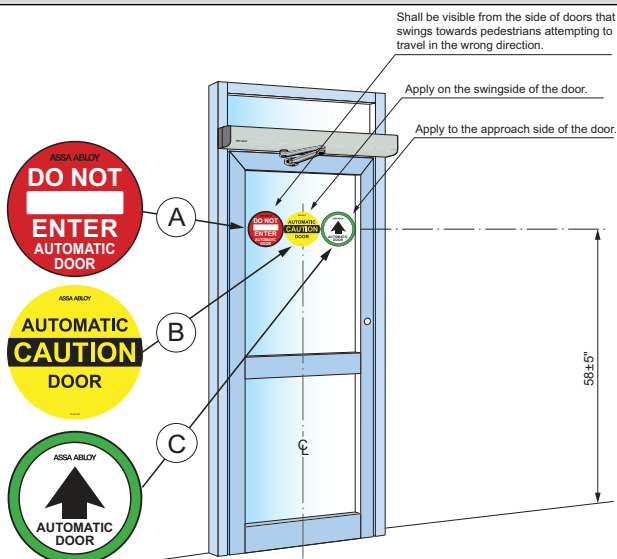
Surface Applied shown

Action		If problem occurs
Check that all required signage is applied and intact. Mandatory indicates that the signage is required by European directives and equivalent national legislation outside the European Union.		
(A)	Dual Side "AUTOMATIC DOOR / CAUTION"	
(B)	Operator designed for disabled people; Recommended, if applicable (applied to both sides of the door).	
(C)	Dual Side "Activate Switch to Operate"	
(D)	Push side "PUSH TO ACTIVATE" Pull side "PULL TO ACTIVATE"	
(E)	Activation by disabled people: Recommended, if applicable.	




= Contact your ASSA ABLOY service representative. For contact information, see last page.

SIGNAGE according to ANSI / BHMA A 156.10



Surface Applied shown

Action		If problem occurs
Check that all required signage is applied and intact. Mandatory indicates that the signage is required by European directives and equivalent national legislation outside the European Union.		
(A)	Back Side "AUTOMATIC DOOR / DO NOT ENTER" No entry, identifying one-way traffic: Mandatory, if applicable. Used in combination with label (C).	
(B)	Dual Side "AUTOMATIC DOOR / CAUTION"	
(C)	Front Side "AUTOMATIC DOOR" – In Used in combination with label (A).	



= Contact your ASSA ABLOY service representative. For contact information, see last page.

General accessories

Your ASSA ABLOY SW200 can be further improved with the following add-ons (please contact your local ASSA ABLOY company for detailed description).

- Position switch ③, see page 9
- Electrical lock ⑨, see page 9
- Key switch ⑩, see page 9
- Elbow switch ⑩, see page 9
- Radar ⑪, see page 9
- Wireless transmitters (not illustrated)
- Access control (not illustrated)
- Door stop (not illustrated)

Safety accessories

Even though the ASSA ABLOY SW200 is installed to comply with all applicable safety regulations, it is possible to enhance safety/comfort with the following add-ons (please contact your local ASSA ABLOY company for detailed description).

- Safety sensors ⑫, see page 9
- Finger protection ⑧, see page 9

Troubleshooting

What's wrong?	Remedies
The door does not open	
The motor does not start	Change the setting of the program selector (see page 6).
	Check that there are no objects in the detection zone if a sensor is fitted.
	Check the mains switch and fuse in the building.
The motor starts but door(s) will not open	Unlock the mechanical locks.
	Check that nothing is jammed beneath the door.
The door does not close	Change the setting of the program selector (see page 6).
	Check that there are no objects in the detection zone if a safety sensor is fitted.
	Check that nothing is jammed beneath the door.
The door opens and closes continuously	Check that there are no moving objects within 39"-59" (1-1.5 m) from the door if an automatic activation unit is fitted.
If the problem continues, please contact your ASSA ABLOY representative.	

Service/Maintenance

Service and adjustments performed by your ASSA ABLOY Entrance Systems-authorized representative will ensure safe and proper operation of your automatic door unit.

Remember to keep “Service Log Book” and “Site Acceptance Test and Risk Assessment” documents (PRA-0007) available. These are used together.

The table below shows the recommended interval in months, when to replace parts during preventive maintenance. Talk to your ASSA ABLOY Entrance Systems representative to learn more about our service offering.

Part	Part number	Cycles/hour in operation			Abusive Environ- ment
		<10	<100	>100	
		Low traffic	Medium traffic	High traffic	
PUSH arm service kit	330000271BK/SI	24	12	6	6
PULL arm service kit	330000272BK/SI	24	12	6	6
Stop arm kit	330000276	24	12	6	6
Micro switch kit	330000275	24	12	6	6
Adaptor kit	330000270BK/SI	24	12	6	6
Transmission unit	331007291	60	60	60	60
Connection box kit	331007504	60	60	60	60
Control unit CU-200 with EXU-boards	331008346	60	60	60	60

Other products from ASSA ABLOY Entrance Systems

- Door Systems
- Balance doors
- Air curtains
- Revolving doors
- Sliding doors
- Automatic and manual activation units
- Overhead sectional doors
- Service such as preventive maintenance and upgrade programs, emergency repairs, service advice and door management
- Vertical lifting fabric doors
- Dock levelers
- Dock shelters
- Folding doors
- High speed doors
- Loadhouses

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. Building on the long-term success of the Besam, Albany and Megadoor brands, we offer our solutions under the ASSA ABLOY brand. Our products and services are dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations. ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

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