

ASSA ABLOY 8600 Series Electric Mortise Lock Installation and User Manual

Read the manual before using the product. Standards Compliance: EN179, EN14846:2008, EN12209:2016, EN1634

I. Product Overview:

1. The ASSA ABLOY 8600 Series Electric Mortise Lock is a high-performance electromechanical locking solution designed for premium security applications. Engineered for high-traffic environments such as commercial buildings, industrial complexes, data centers, and other high-security applications, the AA8600 Series combines mechanical robustness with intelligent electronic control.
2. Intended for indoor use. Operating Temperature: -25°C to 70°C. Operating Humidity: 10% to 90% RH. Storage Humidity: 10% to 95% RH.
3. Suitable for door thicknesses: 35–55mm (standard), 56–100mm (optional). Installation Backset: 60mm.

II. Product Features:

1. Lift the interior or exterior lever upward to throw the deadbolt and lock the door. The latchbolt automatically engages when the door is closed.
2. The door can always be opened from the inside by pushing down the interior lever. Press down the interior lever to retract latch and deadbolt simultaneously to open the door.
3. Outside lever rotate freely and not able to open door. When receiving an authorization signal, the exterior lever can be pressed to retract the latch and deadbolt to open the door.
4. Handing (Left-Hand/Right-Hand) is changed by reversing the orientation of the connecting spindle. Pay attention to the markings on the interior and exterior spindles during installation.
5. The latchbolt features anti-pick protection.
6. The latchbolt direction can be changed for left-handed or right-handed doors.
7. Mechanical cylinder with keys override.
8. Reinforcement supports lock faceplate.
9. Sprung Lever is supplied.
10. Suggested door gap between front plate and strike plate ≤ 3 mm.
11. Max side load for key or Lever operation is 25N.

III. Product Maintenance:

1. Perform annual maintenance to ensure the lock's operational components are functioning properly. Check for any abnormalities and confirm that all fastening screws are securely tightened.
2. If key insertion or withdrawal feels rough, apply a small amount of graphite powder into the keyway. Avoid using oil-based lubricants, as they can cause internal components to stick and lead to lock failure. Additionally, lubricate the contact point between the latch bolt and the strike plate to maintain smooth operation.
3. During renovation, protect the lever, front plate, and other surface components from direct exposure to acidic or alkaline materials/fumes to prevent spotting, blistering, or delamination.
4. Do not clean the lock surface with steel wool or wire brushes. Use a wet tissue or soft cloth (with water or a neutral cleaner) for routine cleaning.
5. If the lock loses function, or key operation or latchbolt movement becomes excessively stiff, contact a professional locksmith or service provider immediately.

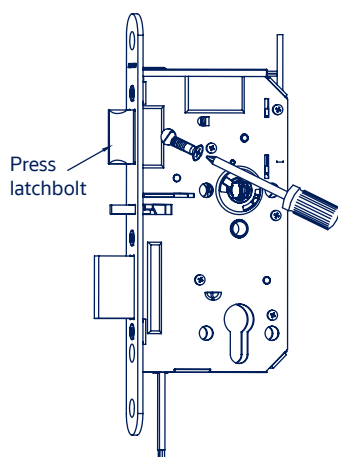
IV. Marking and Drilling:

1. Affix the drilling template to the correct position on the door and drill holes as required.
2. Drill the lock body support hole and front plate support hole. Ensuring they are centered on the door thickness.
3. Finally, drill the holes for the strike box and strike plate. (Note: Ensure proper alignment of the magnet for the door status sensor installation).

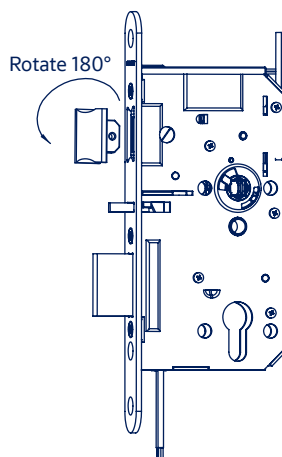
V. Handing Change Guide:

Confirm latchbolt direction based on door swing.

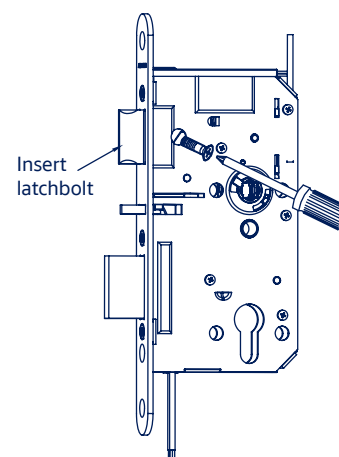
1. During installation, the latchbolt must always be positioned on the top.
2. For swing inside doors, latch slope face to outside. For Swing outside doors, latch slope face to inside.



a. Press the latchbolt fully and remove the fixing screw.



b. Pull out the latchbolt, rotate it 180 degrees.



c. Re-insert the latchbolt into the front plate hole and tighten the fixing screw.

VI. Installation:

1. Install Lock Body: Insert the lock body correctly, ensuring the latchbolt is on top and the deadbolt below, into the prepared hole in the door. Secure it to the door using the lock body mounting screws.
2. Install Cylinder: Secure the cylinder to the lock body using the cylinder screws. Test the key for smooth operation, then tighten the cylinder setscrew.
3. Install Levers:
 - a. Insert the connecting spindle from the interior side to the exterior side. (Note the 'IN' and 'OUT' markings on the spindle indicating interior and exterior sides).
 - b. Install Levers. First, slide the Rose cages onto the spindle. Then, use the through-bolts and alignment pins to secure the interior and exterior rosette mounting plates to the door. Finally, attach the interior and exterior rosette covers onto the mounting plates and snap them into place.
 - c. Install the cylinder escutcheon components. First, place the cylinder ring over the cylinder and secure it with screws. Then, attach the exterior cylinder escutcheon cover onto the mounting ring and snap it into place.
 - d. Test that both the key and Levers operate smoothly to retract the latchbolt and deadbolt. Then, tighten the Lever set screws.
The rosette and Lever installation is now complete.
4. Install Strike Plate & Strike Box: Make a recess in the door frame corresponding to the lock body position and insert the strike. Secure the strike to the door frame using the screws provided. Test the door closing and opening to ensure proper operation.

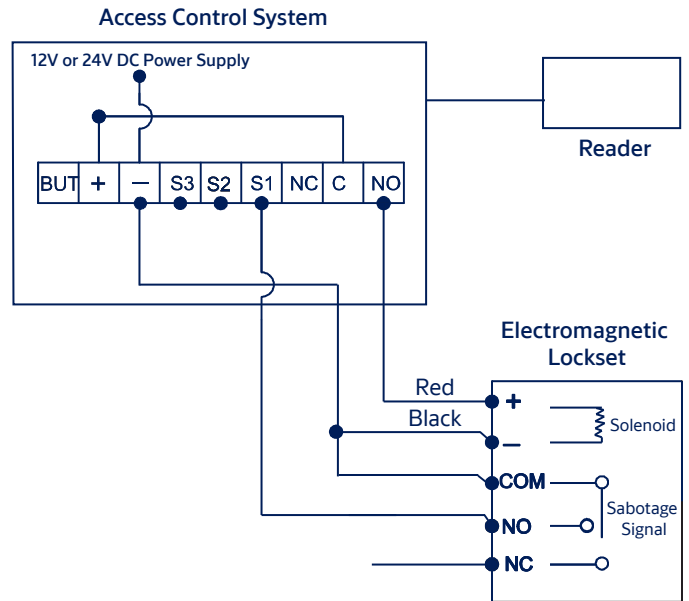
Wiring Instructions:

Main Technical Parameters:

1. Operating Voltage: 12VDC or 24VDC (Specify when ordering)
2. Operating Current: 300mA @12VDC or 150mA @24VDC
3. Signal Output: See table below
4. Operating Mode: Fail-Safe or Fail-Secure
5. Actuator: Solenoid (Electromagnet)
6. Lifecycles: >200,000 cycles
7. Operating Temperature: -25°C ~ 70°C
8. Operating Humidity: 5% RH ~ 95% RH

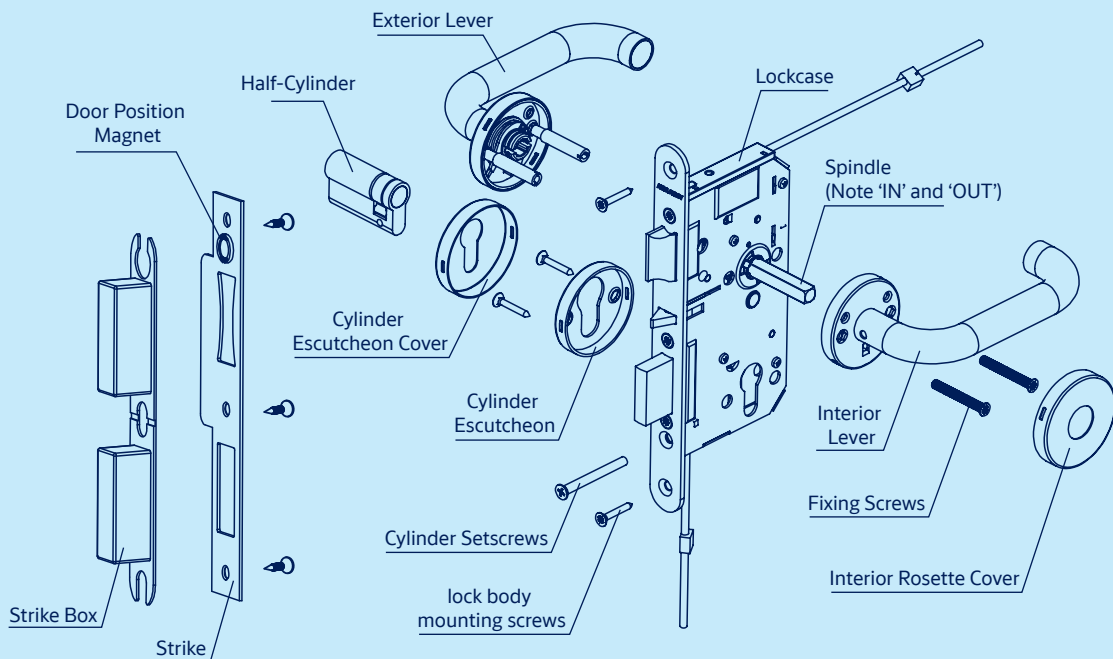
Signal Wiring Table:

Signal Type	COM	NO	NC	Remarks
Deadbolt Signal	Yellow	Orange	Blue	2*3pin
Tamper Signal	Green	Black	Red	
Lever Signal	Blue	Orange	Brown	3pin
Door Position (Normally Open)	Yellow	Green		2pin
Latchbolt Signal	Orange	Gray	Blue	3pin



Signal Type	+	-	Remarks
Solenoid	Red	Black	2pin

Assembly Drawing:



Product appearance and style may vary from illustrations shown.

Note: Please strictly follow this installation manual for installation. The company shall not be held responsible for any losses resulting from failure to adhere to the instructions herein.