

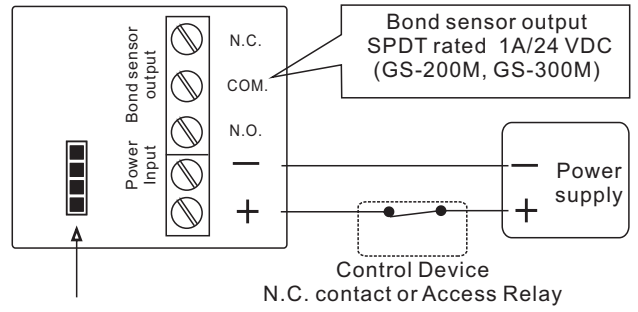
# GS-200/GS-300 Mini Shear Lock Installation Instruction

## Specifications

Shear Holding Force	Up to 1200 lbs (545 Kg)
Operating Voltage	12/24 VDC (Selectable) Tolerance: ±10
Current Draw	420mA/12VDC, 210mA/24VDC
Finish	Magnet and Armature plate: zinc plated
Bond Sensor Output= Lock or unlock status (GS-200M, GS-300M)	Bond Sensor Output SPDT rated 1A/24VDC
Door Gap	Max. 2mm
Operating Temperature	-30°C to +55°C

### Caution:

Make sure that the "+" and "-" wire are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by products warrant.

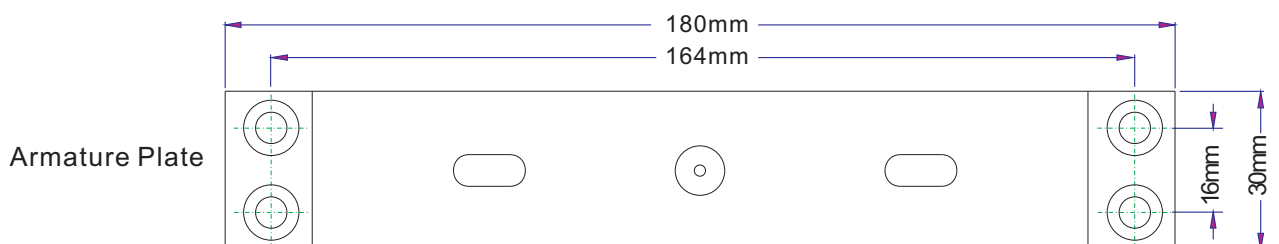
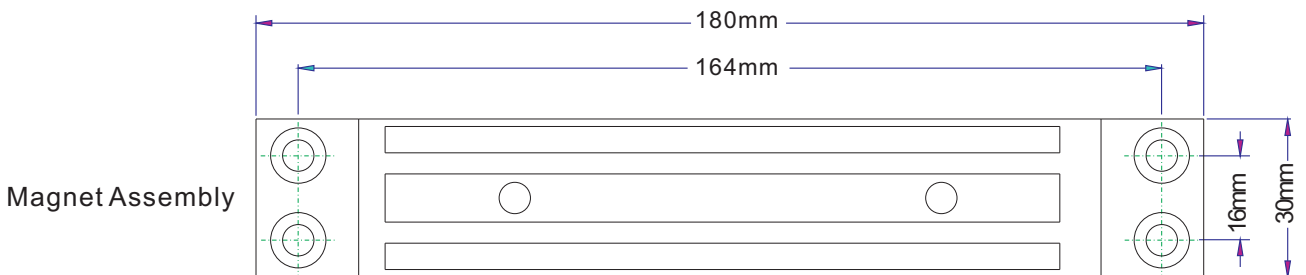
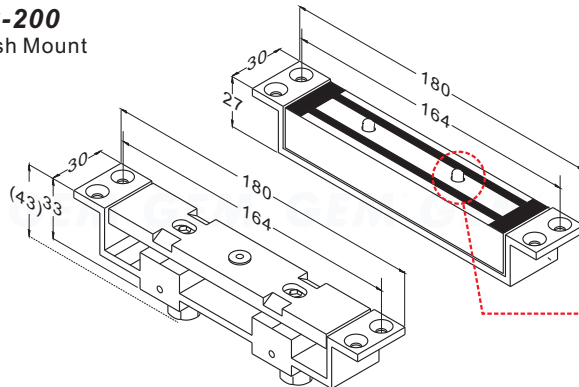


Voltage Selection jumpers



## Dimensions

### GS-200 Flush Mount

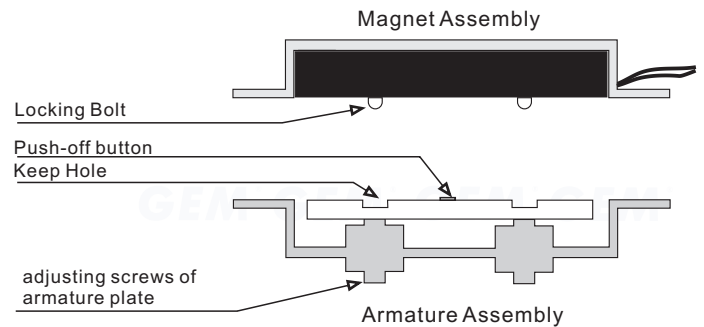
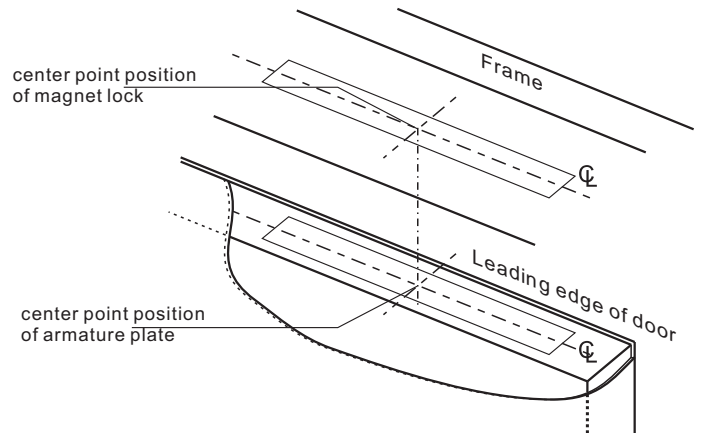


## Notes

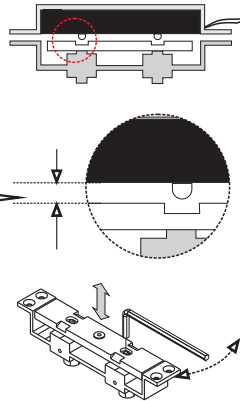
Ensure the width and depth of the door frame, door leaf are enough to install the lock body. Also check if the centerline of door frame and door leaf is coincided. Make sure the double action door swing back to correct position after use to make sure the shear lock locks up quickly. Therefore the door hinge/ automatic door operator of the double action door is very important.

## Flush Installation

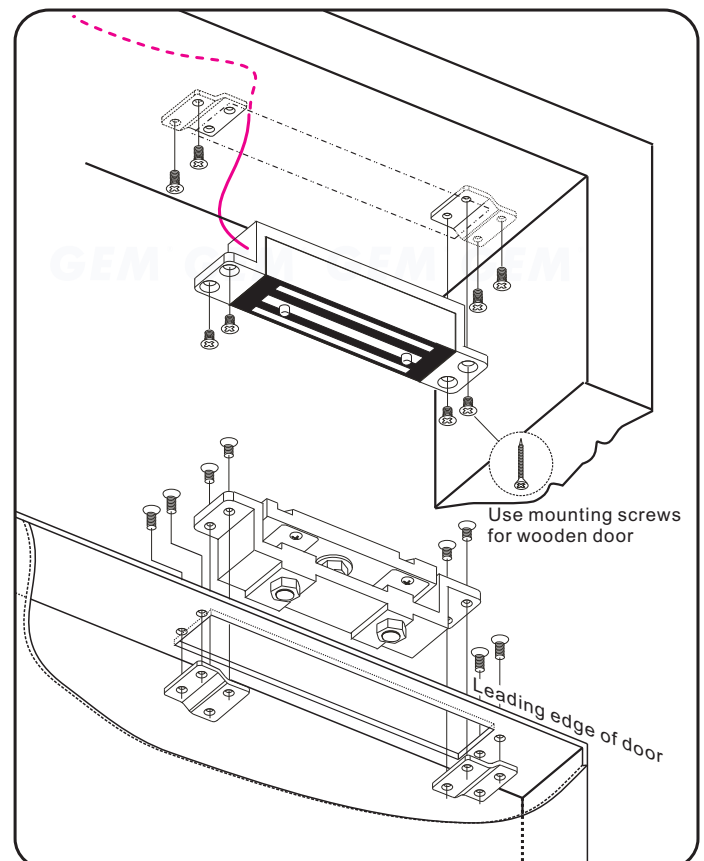
1. Test if the automatic door operator could completely close the door.
2. Mark the center point position of the door frame and the armature plate. Allow install vertically or horizontally.
3. Mount the supplied installation template for the electromagnet lock align it to the door and door frame.
4. Ensure installation according to the template supplied mark hole cutting and drilling position. Connect power, make sure all wirings are correct and tightened to secure the shear lock and armature plate on the door and the door frame.
5. Close the door and check if the lock function works normally. If any of the below situations happens, please find out the causes and begin trouble shooting.
  - A. Shear lock is not working:  
Check if the wiring is correctly connected and if the magnet is out of the attraction range. Adjust the screws of the armature plate and make sure of equalize gap between the armature plate and magnet lock.
  - B. Locked improperly:  
Adjust the door hinge/automatic door operator
  - C. Bond Sensor Output function is not working:  
Remove any diode installed across the magnet for spike suppression. The magnet is fitted with a metal oxide varistor to prevent back EMF. Make sure the contact area between magnet lock and armature plate are correct.



Max. gap between the Lock and Armature plate is 2 mm.

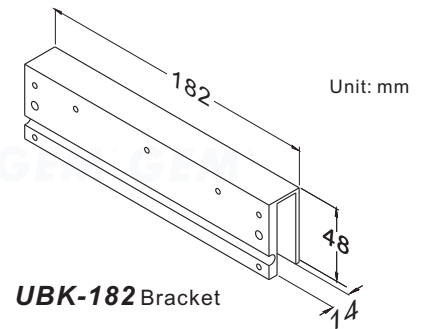
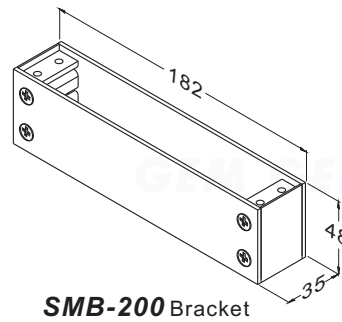


Use allen wrench to adjust the screws of the armature plate. Make sure of equalize gap between the armature plate and magnet lock.



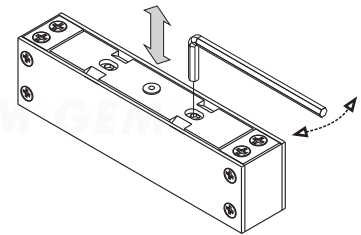
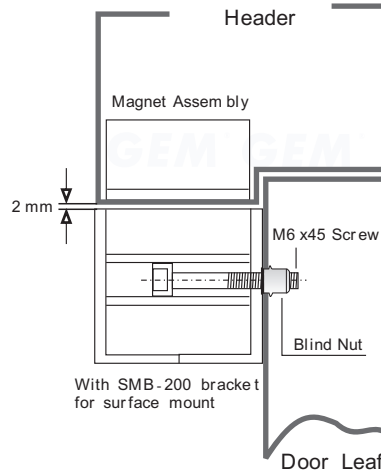
## Optional Bracket

Ensure the width and depth of the door frame, door leaf are enough to install the lock body. With SMB-200 bracket for surface and semi-surface mount, UBK-182 bracket for frameless glass doors.



## Semi-Surface Installation

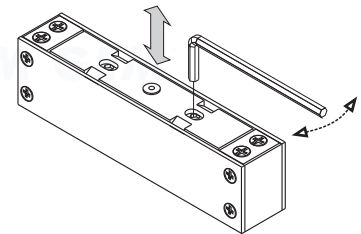
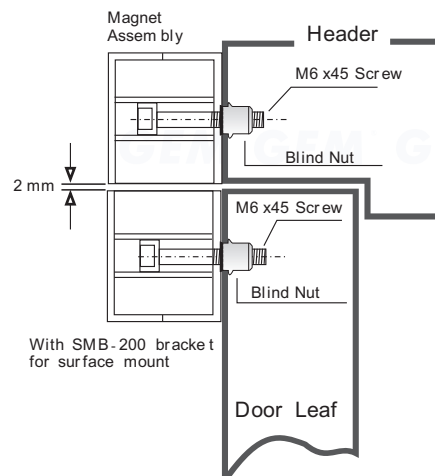
The magnet lock mounted directly into the door header. With SMB-200 bracket for the armature plate for surface mount. The maximum gap between magnet lock and armature plate is 2 mm.



Use allen wrench to adjust the screws of the armature plate. Make sure of equalize gap between the armature plate and magnet lock.

## Surface Installation

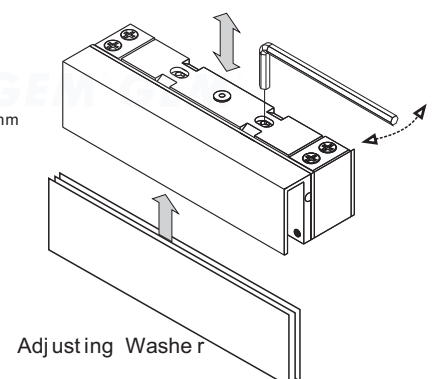
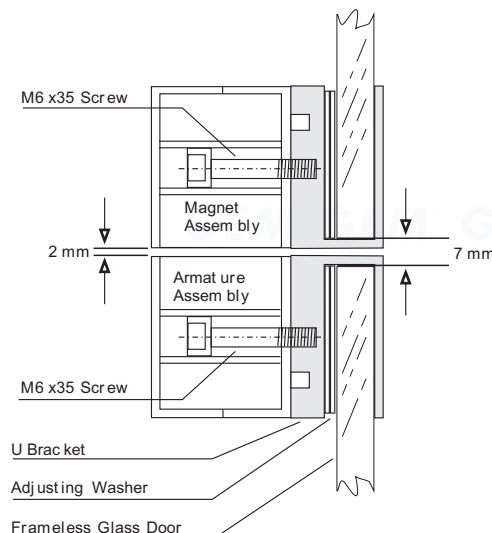
With SMB-200 bracket for the armature plate for surface mount. The maximum gap between magnet lock and armature plate is 2 mm.



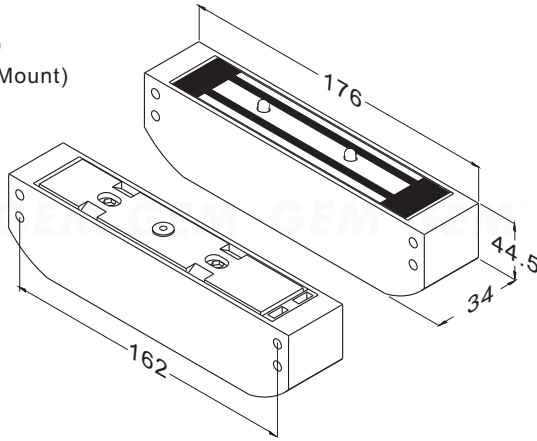
Use allen wrench to adjust the screws of the armature plate. Make sure of equalize gap between the armature plate and magnet lock.

## Installation on Frameless Glass Door

With SMB-200 and UBK-182 bracket for frameless glass doors. The maximum glass thickness is 14mm for UBK-182 bracket. Use adjusting washers for tightness.

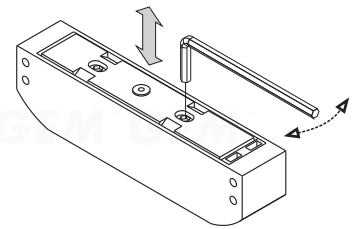
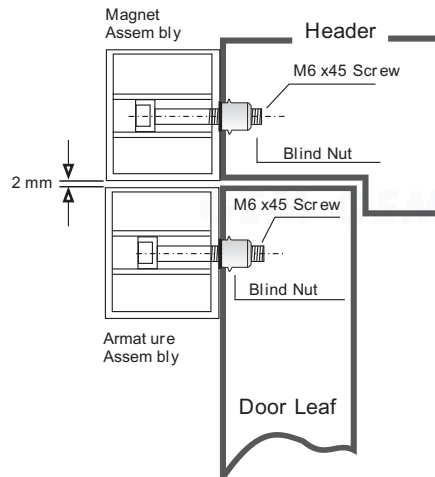
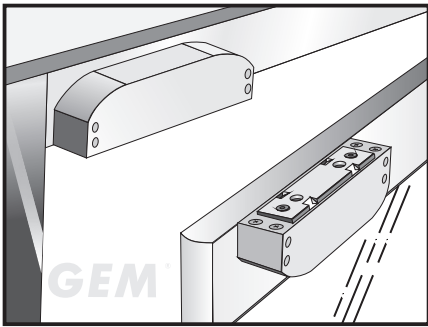


**GS-300**  
(Surface Mount)



The GS-300 mini shear lock is specially designed for surface mount. The lock and armature plate are wrapped up by bracket. Magnet lock directly mount to the door frame and the armature plate mount to the door leaf. The maximum gap between magnet lock and armature plate is 2 mm.

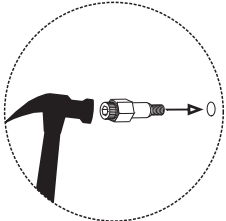
**Surface Installation**



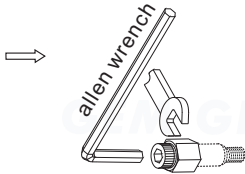
Use allen wrench to adjust the screws of the armature plate. Make sure of equalize gap between the armature plate and magnet lock.

**Blind Nut Installation**

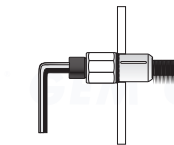
Drill 9.4mm holes for M6 Blind Nuts.  
Drill 7mm holes for M5 Blind Nuts.



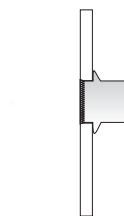
Insert two Blind Nuts into the holes



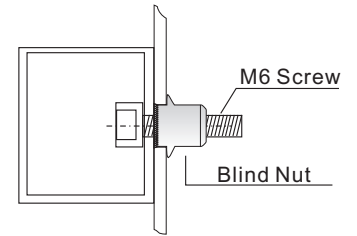
Use the allen wrench to tighten the Blind Nut.



The compression of Blind Nut makes it permanently fixed in the frame.

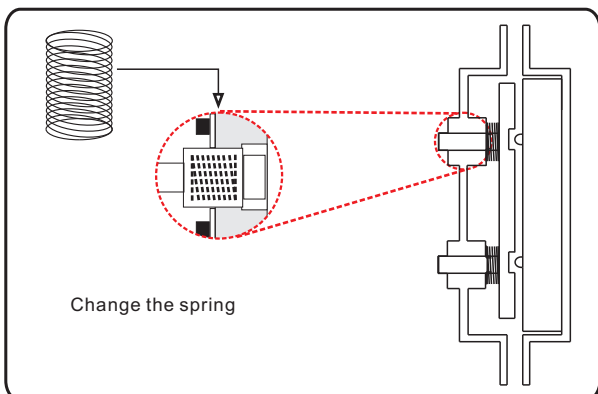


Remove the tool.



Use M6 screws to fix SMB-001 brackets.

**Vertical Installation**



**Vertical Installation**

