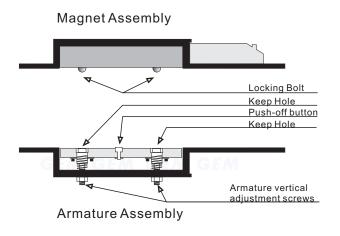
GS-705N Shear Lock Installation Instruction

Important Notes

Unbalanced air conditioning (stack pressure) can hinder door alignment and must be corrected to help insure positive locking. It is important to note that the Shear Locks need a regulated 12V DC (or 24VDC) at the lock, and use the highest quality door closer only. Positive centering door closers are required for all double acting door applicators to help attain consistent dead center alignment. Also the door latching problems must be corrected prior to installation.

Specifications

Holding Force	Up to 2700 lbs (1226 Kg) in shear.
Power Input	12/24 VDC selectable via jumpers +10% over voltage is acceptable , under voltage will reduce holding force.
Current Draw	0.35 A@12 VDC; 0.17 A@24 VDC The unit does not require initial voltage increase to operate.
Finish	Magnet and Armature: Zinc plated Housing: Black powder coated
Monitoring Output	Magnet bond sensor output, SPDT rating 1 AMP@30 VDC
Door Gap	2mm
Operating Temper.	-30C to +50C

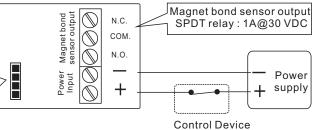


Connecting Diagram





Voltage Selection jumpers Check jumper settings before connecting the lock to 24 VDC input power. Damage to the lock may result from incorrect jumper settings.

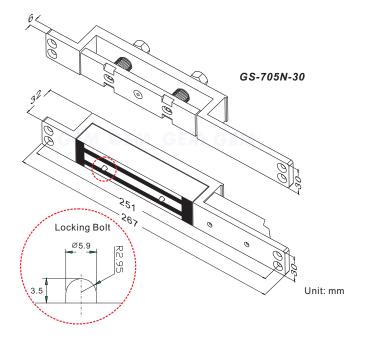


Caution:

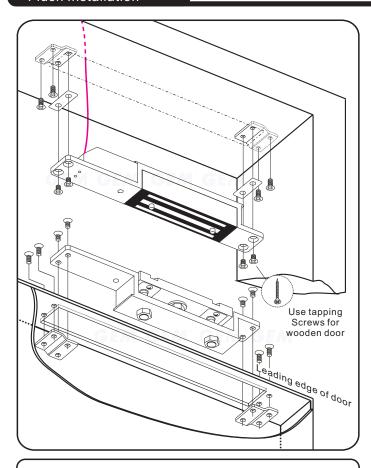
Make sure that the "+" and "-" wire are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by products warrant.

Dimensions

Install the magnet assembly into the door frame before installation the armature assembly into the door leaf. The magnet assembly requires space to run wires, as wall as space for the recesses portion of the unit. However, make sure that the position selected for the magnet assembly leaves enough room on the door to install the armature assembly.

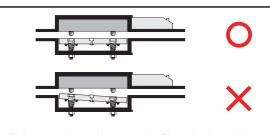


N.C. contact or Access Relay

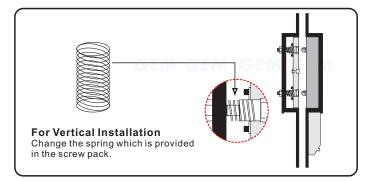




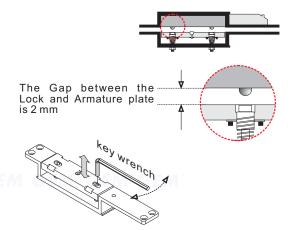
Flat Lugs is used when the door frame is deep, and to prevent the Electromagnetic Lock or the Armature Plate caved in, add flat lugs to raise the plane (level) of the Electromagnetic Lock face or the Armature Plate face to the door frame surface.



Make sure the gap between the Shear Lock and the Armature Plate are the same while adjusting the gap.



- Make sure the gap between the door top rail and frame header is 2mm. Make adjustments to the door
- 2. Adjust single acting door and door closer to insure the door settles immediately and is fully closed (Adjust double acting door and POSITIVE CENTERING DOOR CLOSER to insure the door settles immediately and is fully closed and rest in the dead center of the frame.
- Locate the vertical centerline of the magnet and armature as possible to the leading door edge.
- Determine the horizontal centerline of the door top rail thickness. The Armature centerline will be the same. Mark the door per template.
- Before determining the frame header centerline single acting door must be fully closed. Double acting doors must be fully closed and rest in the dead center of the frame. Mark the frame header per the template. Prepare the door and frame per the template.
- Install the Shear lock and armature assembly towards the leading edge of the door.
- For proper operation the armature must be adjusted upward as close as possible and parallel to the Shear Lock without interfering with opening and closing of the door.
- Proper operation cannot be expected with more than 2 mm gap between the armature and the magnet. Use the key wrench provided to adjust the armature vertical adjustment screws.
- With the door closed turn the lock power on, check the lateral alignment. The armature locking bolt should be centered to magnet keep hole.
- If the shear stops are too close or binding, double check the templating and door alignment, and make corrections as required.
- Repeat steps 6~10 as necessary following shear lock replacement. Cycle the door and Shear Lock several times after the completion of the installation.



Proper operation cannot be expected with more than 2 mm gap between the armature and the magnet. Use the key wrench provided to adjust the armature vertical adjustment screws.

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