



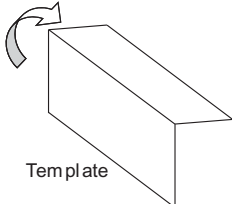
Installation Instructions for ROFU Key Hole Mount Magnetic Locks

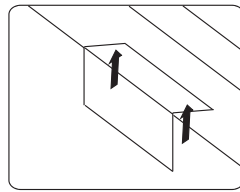
8508-LC, 8508-B, 8512-LC, 8512-B, 8512-2-LC, 8512-2-B, 8512-20993

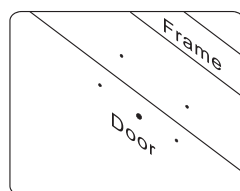
*See page 2 for model specifications

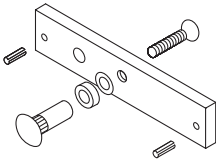
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For Outswing Doors

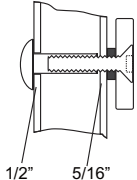
1  Find the paper installation template included with the magnet (you will need this).
Fold it on the dotted line.
Template

2  Place the folded template in the proper position on the door/jamb and mark the holes you will cut for your magnet and armature plate. (Using tape will help)

3  Drill the holes according to the marks you made.
(Check Twice! Drill Once!)

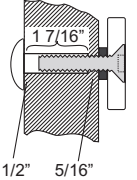
4 **Armature Plate**
 Install the armature plate as shown in the drawing to the left.
The actual dimensions of the holes are illustrated below.

Hollow Metal Door



1/2" 5/16"

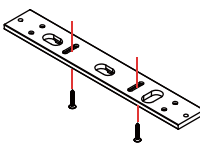
Solid Door

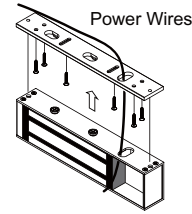


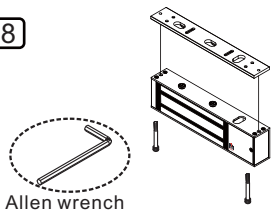
1 7/16" 1/2" 5/16"

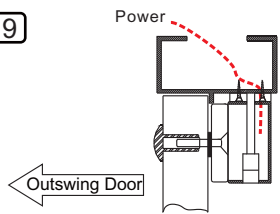
Drill a 5/16" (8mm) hole through the door for the armature side.
For the sexnut side (secure side), enlarge the hole to 1/2" (12.7mm) for the width of the sexnut.
On wood doors the depth of the sexnut is 1 7/16" (36mm).

5  The rubber washer helps the armature plate to pivot. As it should NOT be tightened all the way to door.
Rubber Washer

6  Attach the mounting plate to the jamb and tighten the mounting screws.

7  Pass the wiring through the mounting plate and into the wiring hole at the top of the magnet and into the PCB area.
Power Wires

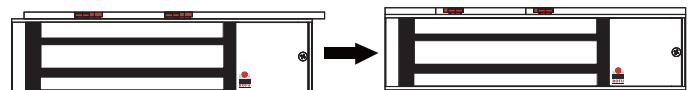
8  Attach the magnet to the mounting plate. Use the Allen wrench and thru-bolts to tighten the magnet to the mounting plate.
Allen wrench

9  Connect the power and test the holding force. Add washers if there is still a gap between the magnet and armature plate.
Power
Outswing Door

Attaching Magnet to Mounting Plate

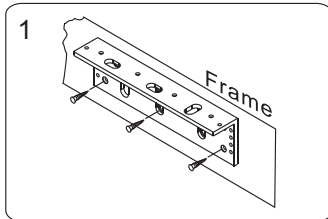


1. Align the two slotted holes and attach the magnet to the mounting plate.

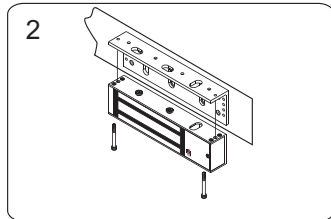


2. Slide the magnet onto the mounting plate.
→ Keyhole Mounting "slides Left to Right"

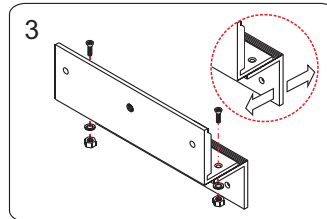
ROFU Z-bracket for Inswing Doors



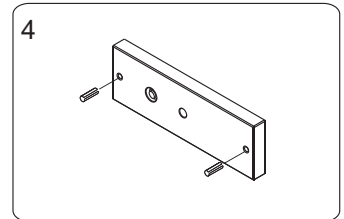
1 Find the correct mounting position on the door jamb for the L-bracket. Ensure that the door still closes with it in position.



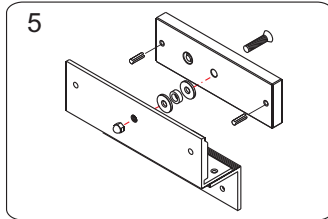
2 Use the thru-bolt to install the magnet onto the L-bracket.



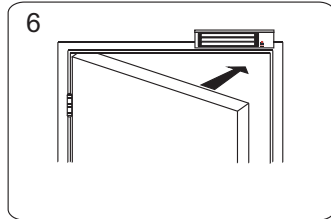
3 Assemble the Z-bracket, but not too tight as it needs to remain adjustable for now.



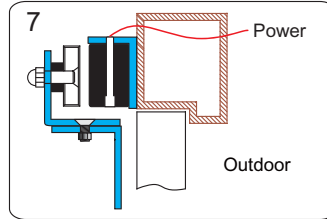
4 Insert the roll pins into the armature plate.



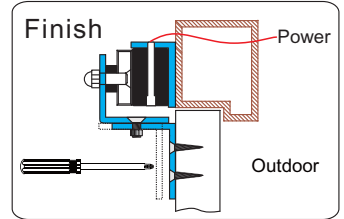
5 Attach the armature plate and washers to the Z-bracket assembly.



6 Close the door and connect the power.



7 After the magnet engages the armature plate, you can now adjust the Z-bracket, and attach to the door.



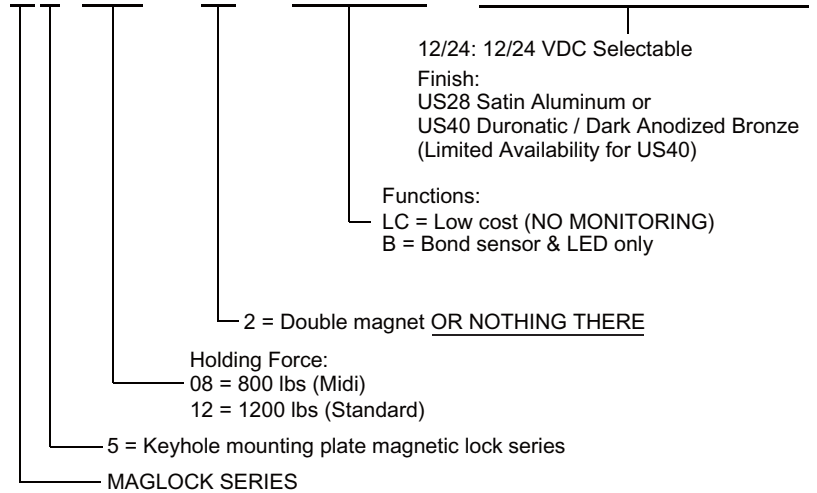
Finish Ensure all screws of Z-bracket are tighten to door. We encourage the use of thread locker (LocTite).

Specifications

- Voltage: 12/24 VDC Selectable
- Current Draw: 500mA/12VDC, 250mA/24VDC
- Holding Force: 800lbs, 1200lbs, 1200lbs x 2
- Finish: US28, US40
- Dimensions:
 - 8508-LC/B (800 lbs)**
Magnet: 10 7/16" x 1 7/8" x 1 1/8" (265 x 48 x 28.5mm)
Armature Plate: 7 1/4" x 1 3/4" x 9/16" (185 x 45 x 14mm)
 - 8512-LC/B/20993 (1200 lbs)**
Magnet: 10 1/2" x 2 11/16" x 1 9/16" (267 x 68 x 40mm)
Armature Plate: 7 1/4" x 2 3/8" x 5/8" (185 x 61 x 16mm)
 - 8512-2-LC/B (1200 lbs x 2)**
Magnet: 21" x 2 5/8" x 1 9/16" (533 x 67 x 40mm)
Armature Plates (each side): 7 1/4" x 2 3/8" x 5/8" (185 x 61 x 16mm)

Model Changes to ROFU Electromagnetic Locking Devices

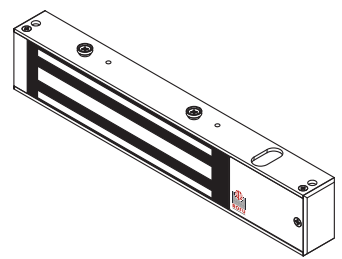
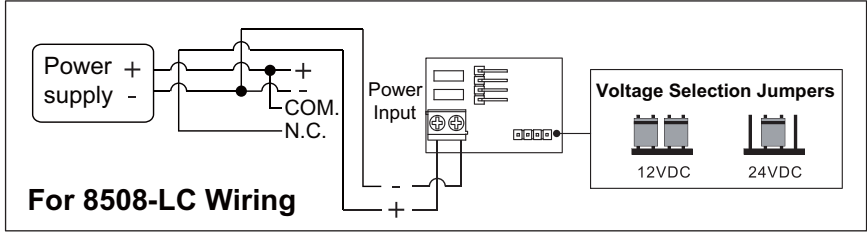
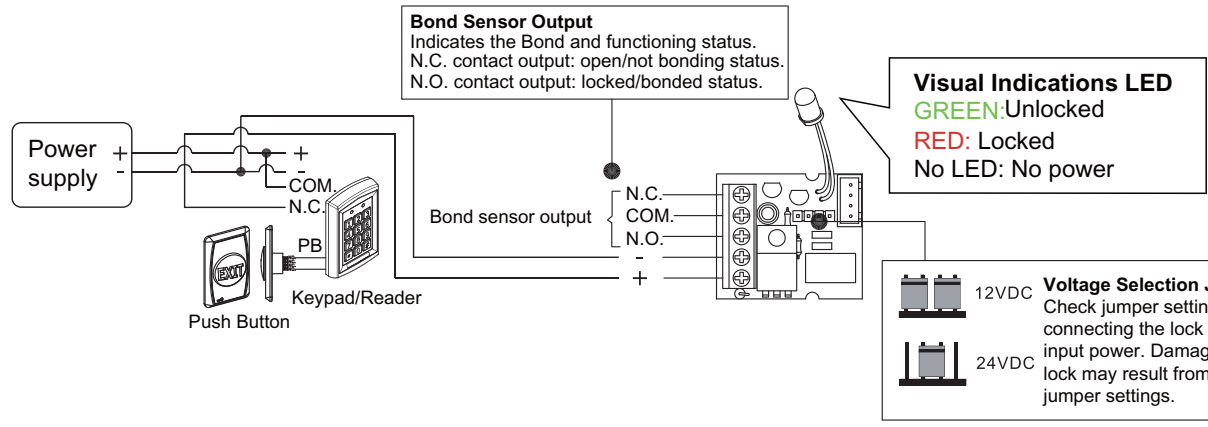
85 XX - 2 - (LC/B) - (US28/40)(12/24)



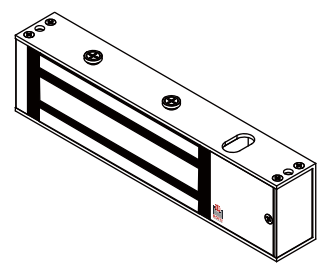
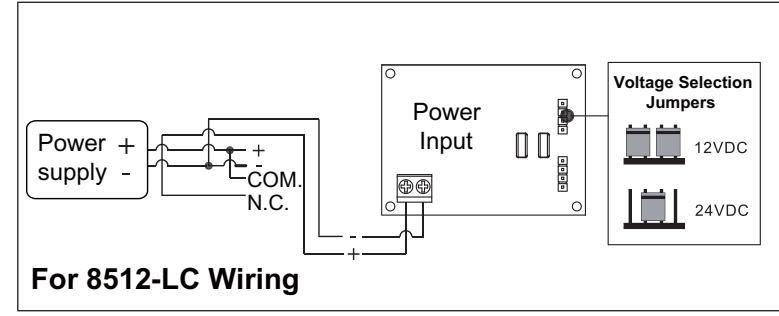
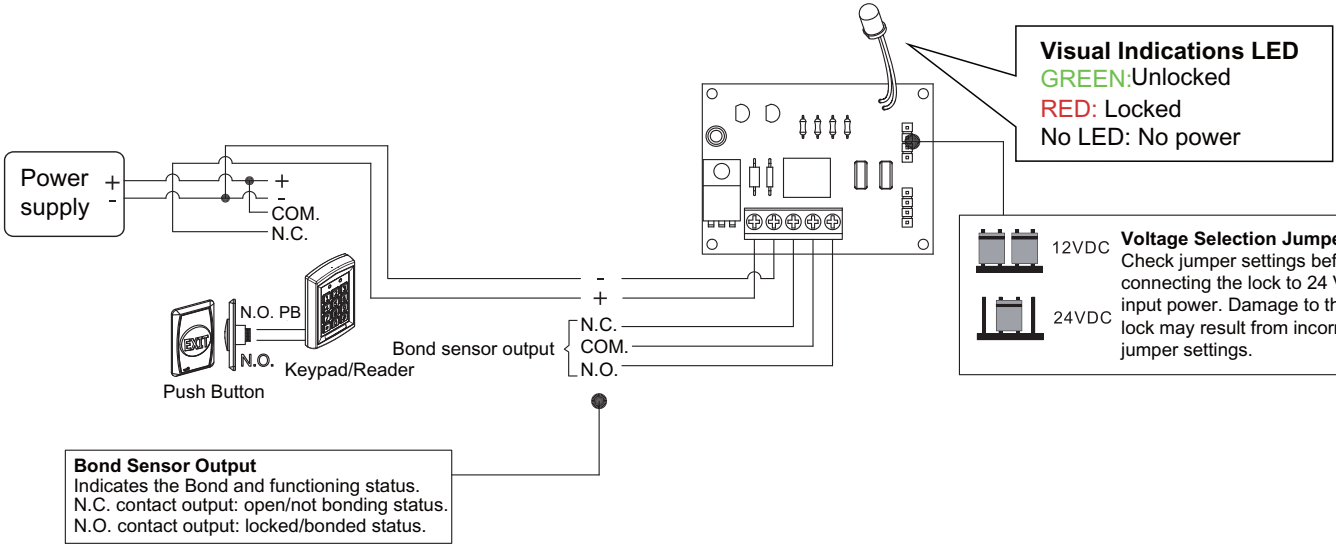
Troubleshooting

Problem	Possible Cause	Solution
Magnet does not lock	No power	<ul style="list-style-type: none"> - Ensure all wires are connected properly. - Check that the power supply is connected and works properly. - Ensure the REX is wired in Common and out the N/C position.
Low holding force <i>*Please remember to test with the armature plate, not a screwdriver.</i>	Poor contact between magnet and armature plate	<ul style="list-style-type: none"> - Is the armature plate warped? - Ensure the armature plate is loose enough to be able to "pivot" and bond with the magnet - Ensure the surface of the magnet and armature plate are clean-use a soft cloth and a spray lubricant to clean it. - Are you using rubber washer on end of through bolt?
	Low voltage or incorrect voltage setting	<ul style="list-style-type: none"> - Check the mag lock and ensure it is set for correct voltage. Check the voltage at the magnet input, if low-determine if you're using the correct gauge of double stranded wire. This will prevent excessive line (voltage) drop.
Sensor output is not functioning	A second diode was installed across the electromagnetic lock	<ul style="list-style-type: none"> - Remove any diode installed across the magnet for "spike" suppression. (The magnet has a metal oxide varistor to prevent back EMF)

Wiring Diagram for 8508-B Single Magnet Models



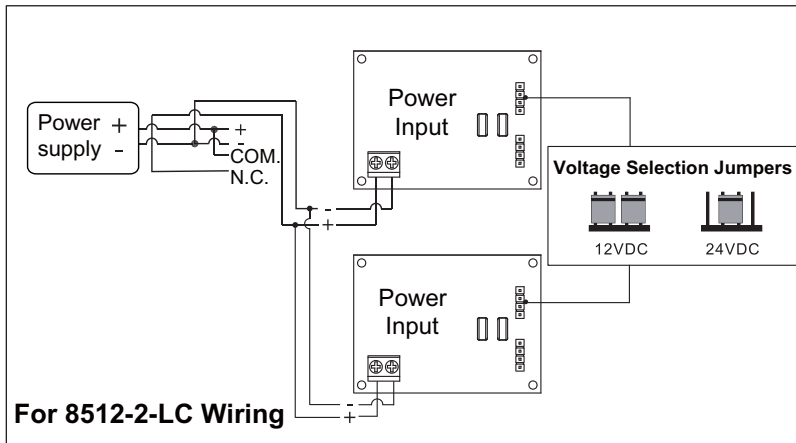
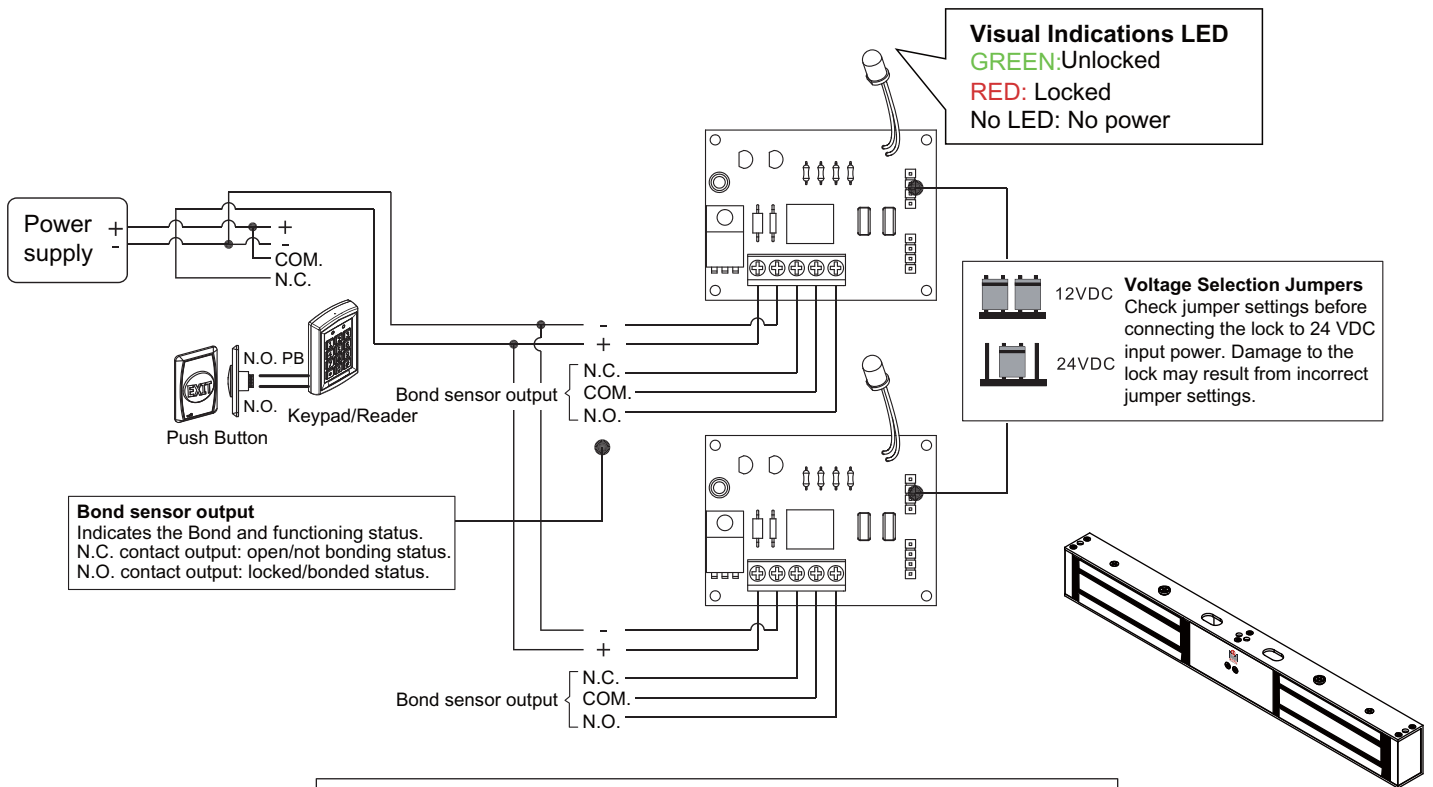
Wiring Diagram for 8512-B Single Magnet Models



- ROFU recommends a good maintenance schedule!
- Please ensure all armature bolts and mounting bolts are checked quarterly.
- ROFU recommends using Loctite (Thread locker) on ALL BOLTS during installation.
- Current Draw: 500mA/12VDC, 250mA/24VDC per block

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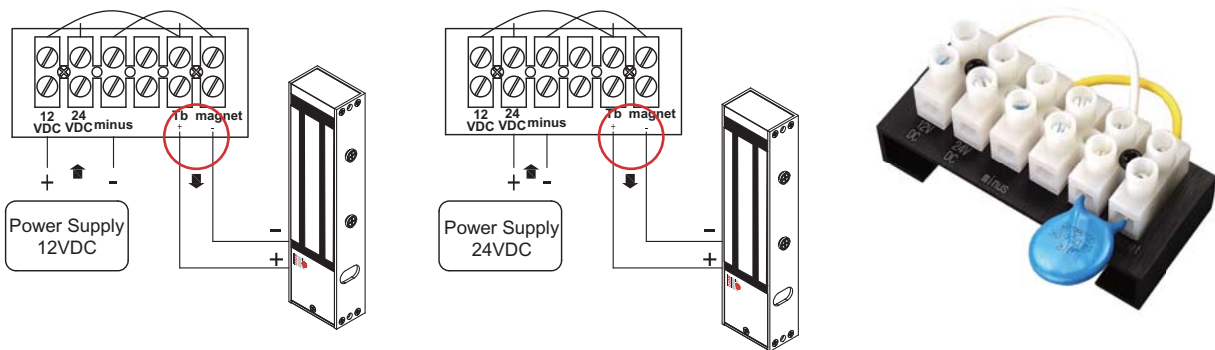
Wiring Diagram for 8512-2-B Double Magnet Models



Optional Features/Accessories:

Model 8512-20993, this is known as an "Oklahoma Special"

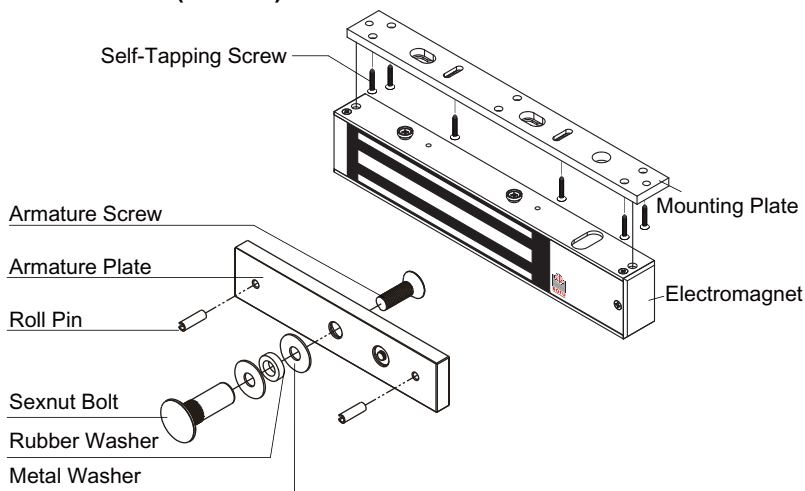
We add a terminal block to the standard 8512-LC which is known better to handle the electrical storms that are so well known in the Oklahoma region. This magnet has become a standard install in most commercial buildings, casinos and facilities in the state of Oklahoma, not only for the ease of installation, but the ease of wiring with the terminal block and the proven durability and reliability of this model to stand up to the harsh electrical storms in the area.










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Installation Diagram & Screw Pack Components

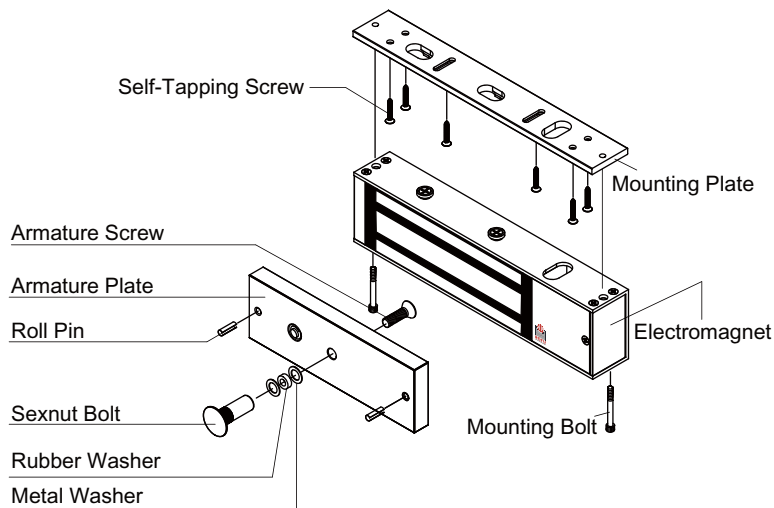
8508-LC/B (800 lbs)











Screw Package Components:

Roll Pin	Hexagon Key (Allen Wrench)	Rubber Washer
		
3/16" x 5/8" x 2	3/16" x 1	11/32" x 19/32" x 5/32" x 1
Allen Flat Head Screw	Phillips Flat Head Screw	Metal Washer
		
5/16" x 1 3/8" x 1	3/16" x 1 1/4" x 6	5/16" x 7/8" x 4
Sexnut Bolt		
		
1/2" x 1 9/16" x 1		

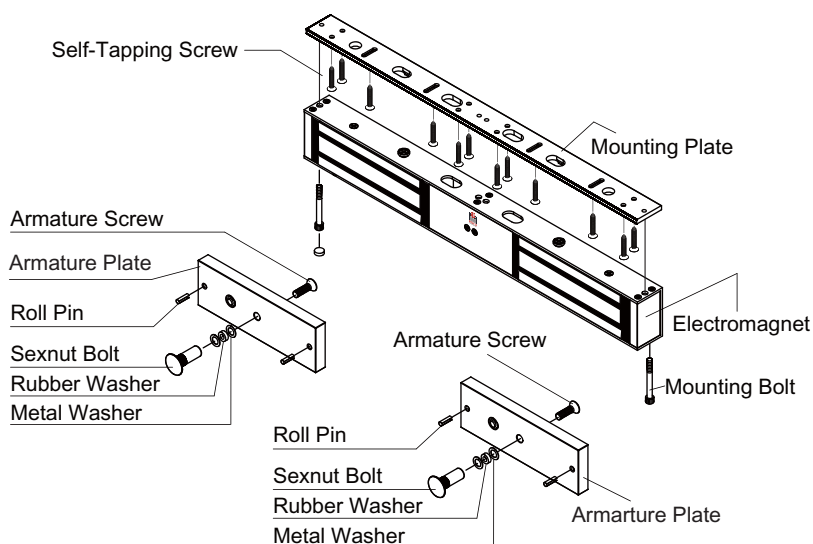
8512-LC/B/20993 (1200 lbs)











Screw Package Components:

Roll Pin	Hexagon Key (Allen Wrench)	Rubber Washer
		
3/16" x 5/8" x 2	3/16" x 1	11/32" x 19/32" x 5/32" x 1
Allen Flat Head Screw	Phillips Flat Head Screw	Thru-Bolt (Hex Screw)
		
5/16" x 1 3/8" x 1	3/16" x 1 1/4" x 6	1/4" x 1 9/16" x 2
Metal Washer	Sexnut Bolt	
		
5/16" x 7/8" x 3	1/2" x 1 9/16" x 1	

8512-2-LC/B (1200 lbs x 2)



Screw Package Components:

Roll Pin	Hexagon Key (Allen Wrench)	Rubber Washer
		
3/16" x 5/8" x 4	3/16" x 1	11/32" x 19/32" x 5/32" x 2
Allen Flat Head Screw	Phillips Flat Head Screw	Thru-Bolt (Hex Screw)
		
5/16" x 1 3/8" x 2	3/16" x 1 1/4" x 12	1/4" x 1 9/16" x 4
Metal Washer	Sexnut Bolt	
		
5/16" x 7/8" x 6	1/2" x 1 9/16" x 2	