



Installation Instructions ROFU Gate Magnetic Locks with Conduit Fitting

8706FT and 8712FT Series (Face, Surface, and Sliding Gate Mount)

*See page 5 for model specifications

ROFU Security International Corp.
10029 S. Tacoma Way, E-11
Lakewood, WA 98499 USA
1-800-255-7638 (1-800-ALL-ROFU)
www.ROFU.com
OrderEntry@ROFU.com



For Outswing Gates

Note: Installation varies but intended for exterior usage, mounting holes thru the front of the magnetic lock.

1

Template

Find the paper installation template included with the magnet (you will need this).

Fold it on the dotted line.

2

Frame

Door

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

3

Frame

Door

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 Gate

Wooden Gate

1/2" 5/16"

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

Drill a 5/16" (8mm) hole through the gate 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 wooden gate the depth of the sexnut is 1 7/16" (36mm).

5

Rubber Washer

The rubber washer helps the armature plate to pivot. As it should NOT be tightened all the way to gate.

6

Attach the mounting plate to the jamb with the included Philips screws. Then use the thru-bolts to tighten the magnet to the mounting plate.

(For surface mounting)

(Sample drawing as 8712FT Series magnet & mounting plate assemblies)

7

To adjust the gap between the armature plate and the magnet, add or remove the washers, or tighten the armature plate.

8

Power

Outswing gate

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

9

Insert the caps into the screw holes in the magnet.

New Mounting Plate

3/8" (10mm)

3/8" (10mm)

The mounting plate thickness at the screw hole at each end is increased to 3/8" (10mm).



Installation Instructions ROFU Gate Magnetic Locks with Conduit Fitting

8706FT and 8712FT Series (Face, Surface, and Sliding Gate Mount)

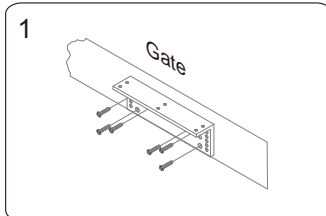
*See page 5 for model specifications

ROFU Security International Corp.
10029 S. Tacoma Way, E-11
Lakewood, WA 98499 USA
1-800-255-7638 (1-800-ALL-ROFU)
www.ROFU.com
OrderEntry@ROFU.com

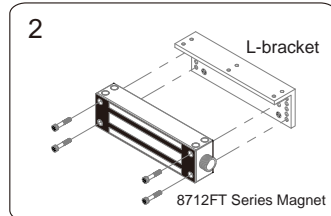


ROFU Z-bracket (#21031) Available for Inswing Gates (Face Mounting)

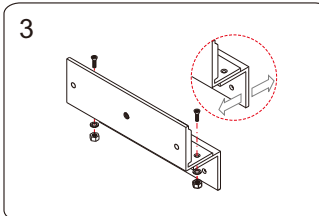
Note: Installation varies but intended for exterior usage, mounting holes thru the front of the magnetic lock.



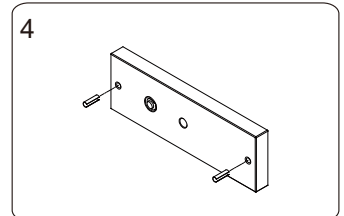
1 Find the correct mounting position on the gate for the L-bracket. Ensure that the gate still closes with it in position.



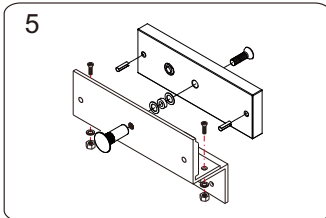
2 Use the thru-bolts to install the magnet onto the L-bracket.



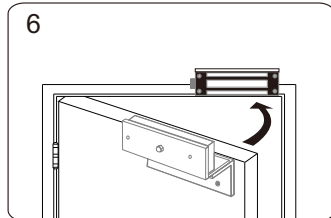
3 Assemble the Z-bracket, but not too tight as it needs to remain adjustable for now.



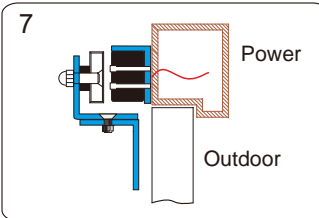
4 Insert the roll pins into the armature plate.



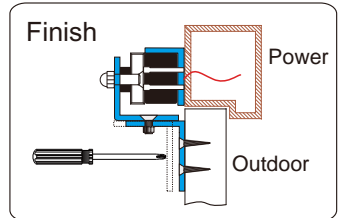
5 Attach the armature plate and washers to the Z-bracket assembly.



6 Close the gate and connect the power.



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

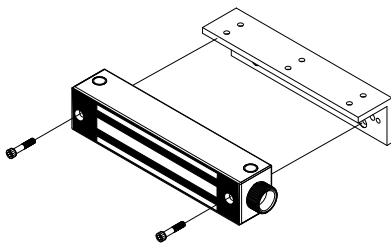


Finish Ensure all screws of Z-bracket are tightening to gate. We encourage the use of thread locker (Loc Tite).

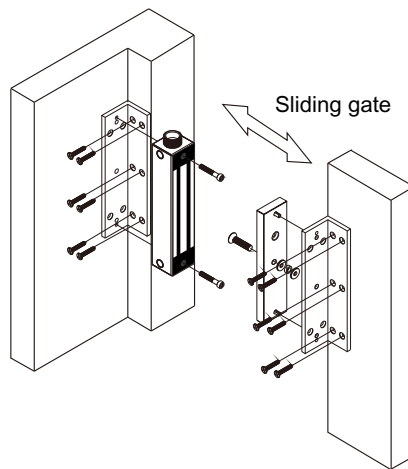
Magnet and Mounting Bracket (Face Mounting)

L-brackets for Sliding Gate Installation

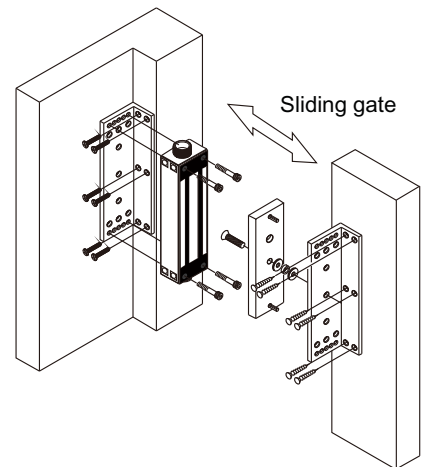
8706FT Series (600lbs.)



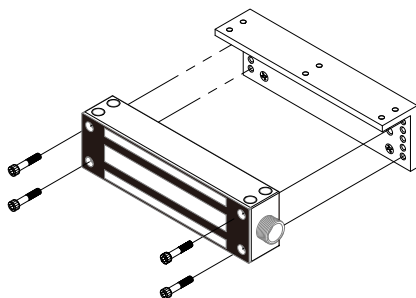
8706FT Series (600lbs.)



8712FT Series (1200lbs.)



8712FT Series (1200lbs.)



L-brackets for 8706FT Series are different from 8712FT Series. Please specify your request of brackets when you order.

L-brackets (#21035) for 8712FT Series : Comes as a pair, to be used for armature plate and magnet (if needed) for gate installation.



Installation Instructions ROFU Gate Magnetic Locks with Conduit Fitting

8706FT and 8712FT Series (Face, Surface, and Sliding Gate Mount)

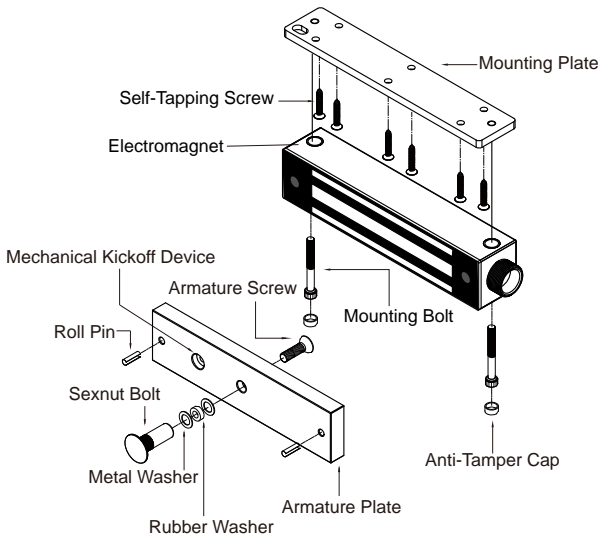
*See page 5 for model specifications

ROFU Security International Corp.
10029 S. Tacoma Way, E-11
Lakewood, WA 98499 USA
1-800-255-7638 (1-800-ALL-ROFU)
www.ROFU.com
OrderEntry@ROFU.com

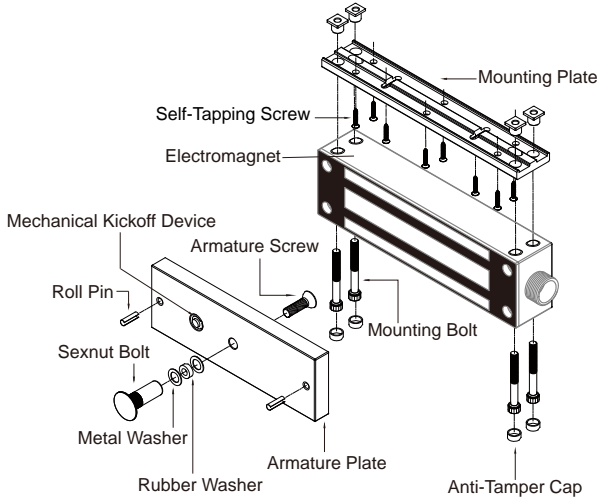





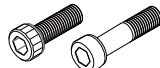






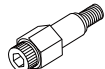

Installation Diagram & Screw Pack Components

8706FT Series
(600lbs. Surface Mounting)



8712FT Series
(1200lbs. Surface Mounting)



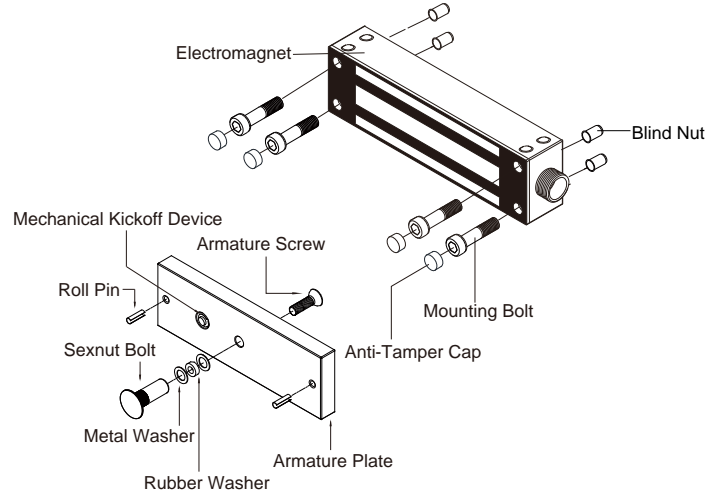
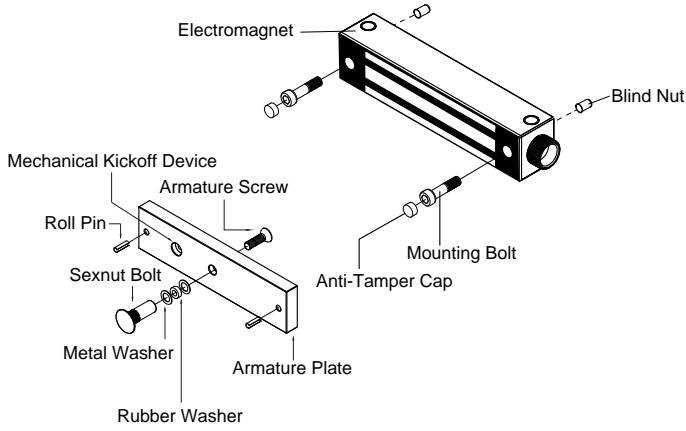
Components	8706FT Series	8712FT Series
 Blind Nut	x 2 (1/4")	x 3 (1/4")
 Anti-Tamper Caps	x 6 (13/32")	x 12 (13/32")
 Roll Pin	x 2 (3/16" x 5/8")	x 2 (3/16" x 5/8") x 2 (3/16" x 7/8")
 Thru-Bolts (Hex Screws)	x 2 (1/4" x 1 3/8") x 2 (1/4" x 1 9/16")	x 4 (1/4" x 2") x 4 (1/4" x 1 3/16")
 Rubber Washer	x 2 (11/32" x 19/32" x 5/32")	x 1 (11/32" x 19/32" x 5/32")
 Philips Flat Head Screw	x 6 (3/16" x 1 1/4")	x 8 (3/16" x 1 1/4")
 Allen Flat Head Screw		x 1 (5/16" x 1 3/8")
 Metal Washer		x 2 (5/16" x 7/8")
 Hexagon Key (Allen Wrench)		x 1 (3/16")
 Sexnut Bolt		x 1 (1/2" x 1 9/16")
 Blind Nut Assembly		x 1 (1/4" x 1 3/8")
 Screw Nut	—	x 4 (1/2")

Installation Diagram (Continued)

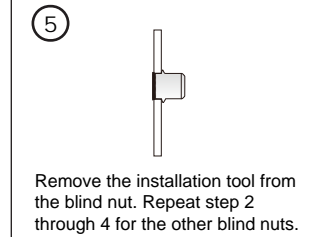
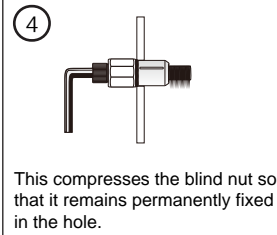
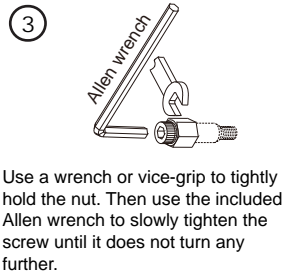
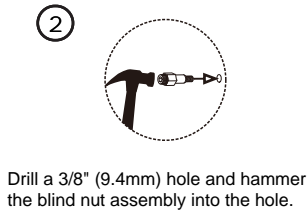
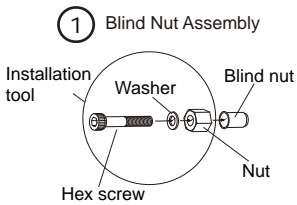
Note: No mounting plate is required for face mounting. Simply use blind nuts to install the magnet.

8706FT Series
(600 lbs. Face Mounting)

8712FT Series
(1200 lbs. Face Mounting)



Installing Blind Nuts



Wiring Instructions

Wire Leads (Polarity Insensitive)	Power Input	Bond Sensor (Monitoring)	Wiring Diagram	Models
4 Wire Leads	12/24 VDC	None	<p>12VDC Operation</p> <p>24VDC Operation</p>	8706FT and 8712FT
7 Wire Leads		✓	<p>12VDC Operation</p> <p>24VDC Operation</p>	8706FT-B and 8712FT-B



Installation Instructions ROFU Gate Magnetic Locks with Conduit Fitting

8706FT and 8712FT Series (Face, Surface, and Sliding Gate Mount)

***See page 5 for model specifications**

ROFU Security International Corp.
10029 S. Tacoma Way, E-11
Lakewood, WA 98499 USA
1-800-255-7638 (1-800-ALL-ROFU)
www.ROFU.com
OrderEntry@ROFU.com

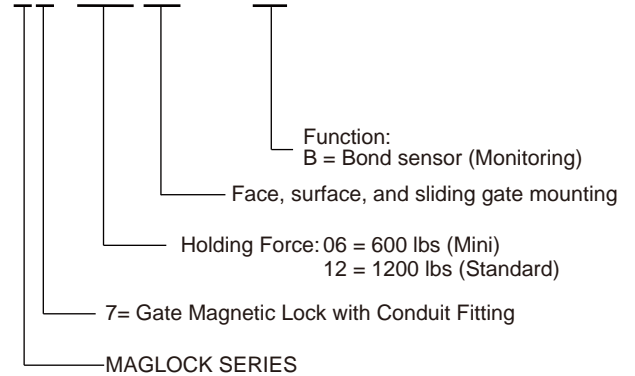


Specifications

Model	8706FT 8706FT-B	8712FT 8712FT-B
Holding Force	600 lbs	1200lbs
Operating Voltage	12/24VDC Selectable	
Current Draw	500mA/12VDC, 250mA/24VDC	
Operating Temperature	14°F~131°F (-10°C~55°C)	
Dimensions	Magnet	8"(L) x 1 11/16"(H) x 1 9/16"(W) (203 x 43.5 x 40mm) 8 11/16"(L) x 2 7/16"(H) x 1 9/16"(W) (220 x 62 x 40.5mm)
	Armature Plate	7 1/4"(L) x 1 3/4"(H) x 9/16"(W) (185 x 45 x 14mm) 7 1/4"(L) x 2 3/8"(H) x 5/8"(W) (185 x 61 x 16mm)
	Conduit	1" (25mm) outside, 3/4" (19mm) threads inside
Installation	Face, surface, and sliding gate mounting	
Finish	US32D Brushed Stainless Steel	

Models Changes to ROFU Electromagnetic Locking Devices

87 XX FT - (B)



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 *Please remember to test with the armature plate, not a screwdriver.	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)