



MEM2400-LP

Mechanical Electromagnetic Lock

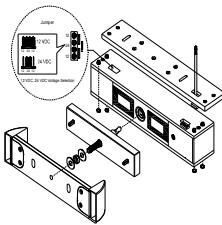
Green Product/ High Security EM Lock



Introduction

Mechanical Electromagnetic Lock with bi-colored Light Panel; MEM2400-LP is a newly innovative developed Lock integrated with mechanical and electromagnetic design. MEM2400-LP has significant low carbon foot print with less operating power consumption, less material used from its unique compact size compared to traditional Electromagnetic Locks. MEM2400-LP has a holding force up to 680Kg with Preload feature up to 60Kg and Impact Resistance of 100J. The lock consists of a Light Panel (LP) to indicate the door status based on 2 dry contact feedbacks of Early Warning (EW), Door Status Sensor (DSS), and Lock Status Sensor (LSS). The EW feature provides Early Warning Output signals when an external force larger than 5Kg is applied on the locked door leaf.

Specification

SPECIFICATION	MEM2400-LP
Illustration	 <p>Installation of MEM2400-LP with security plate</p>
Certifications	 <p>BS476: The product has been tested under British Standard for a 4 hours fire testing.</p>
Fail Safe	Power to lock
Lock Body Dimension	158L x 35.5W x 30.0H (mm)
Armature Plate	120L x 30.5W x 12.5H (mm)
Lock Operating Voltage	12/24VDC ±10%
Lock Operating Current	Max. 0.24A for 12VDC, Max. 0.12A for 24VDC
Lock Holding Force	680Kg
Dynamic Impact Resistance	Up to 100J (Dynamic Impact resistance, AS Standard: GRADE 1, 60J/GRADE 2, 100J/GRADE 3, 160J)
Lock Signal Output	<p>Lock Status Output (LSS) Reed Switch Contact, NO/NO, Max 24VDC; Max 0.1A</p> <p>Door Status Output (DSS) Reed Switch Contact, NO/NO, Max 30VDC; Max 0.3A</p>

	2 Early Warning (EW) 2 dry contacts, C/NO/NC, Max 50VDC; Max0.3A
Operating Temp	-10°C ~60°C
Corrosion Proof	96 hour, grade 9 corrosion proof test
Weight	1.0Kg
Operating Humidity	0~95% (non-condensing)
Surface Finish	Anodized Aluminium housing Zinc plated for anti-corrosion
Residual Magnetism	Less than 50g No Spring Rebound Mechanism on the armature plate is required to overcome the residual magnetism
Cycle Test	1,000,000 cycles
Standard Packing	10pcs/carton
Green Facts	<ol style="list-style-type: none"> 1. Less material and energy consumptions during production 2. Less carbon dioxide emission and damage to environment 3. Less current drawn during operation, 50% less than industry standard

Wiring and Voltage Setting

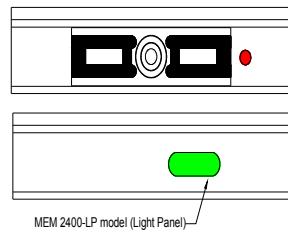


TERMINALS	DESCRIPTIONS
Wiring	12/24VDC Power Input - 2 wires (RED/BLACK) LSS Output - 2 wires (YELLOW/YELLOW) DSS Output - 2 wires (BLUE/BLUE) EW1 Output - 3 wires (PURPLE/ORNAGE/PINK) EW2 Output - 3 wires (GRAY/BROWN/WHITE)

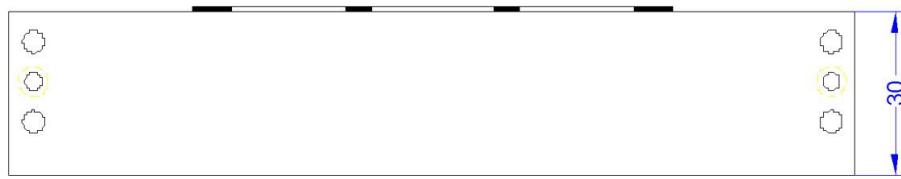
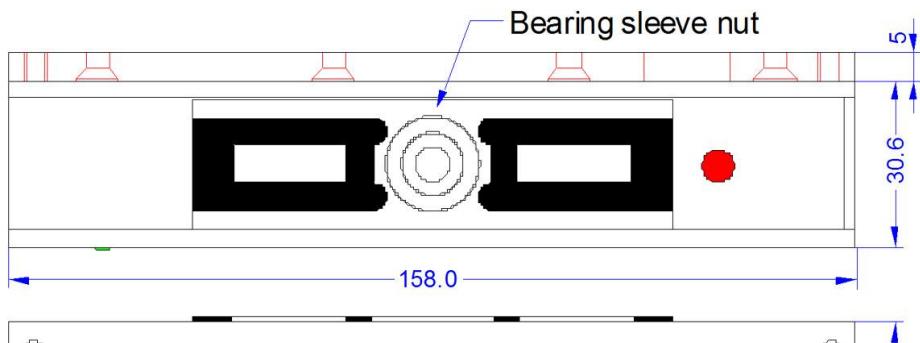
Note: The power supply output **must not** be connected to the earth but isolated to avoid any kind of electric shock, therefore damaging the lock and its surfaces.



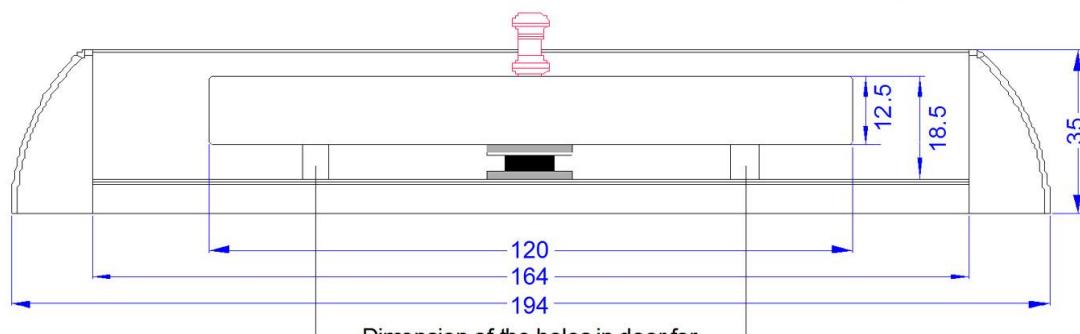
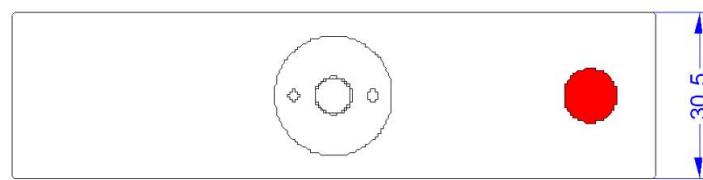
MEM2400-LP Light Panel Feature



MEM2400- LP Dimensions



Armature plate

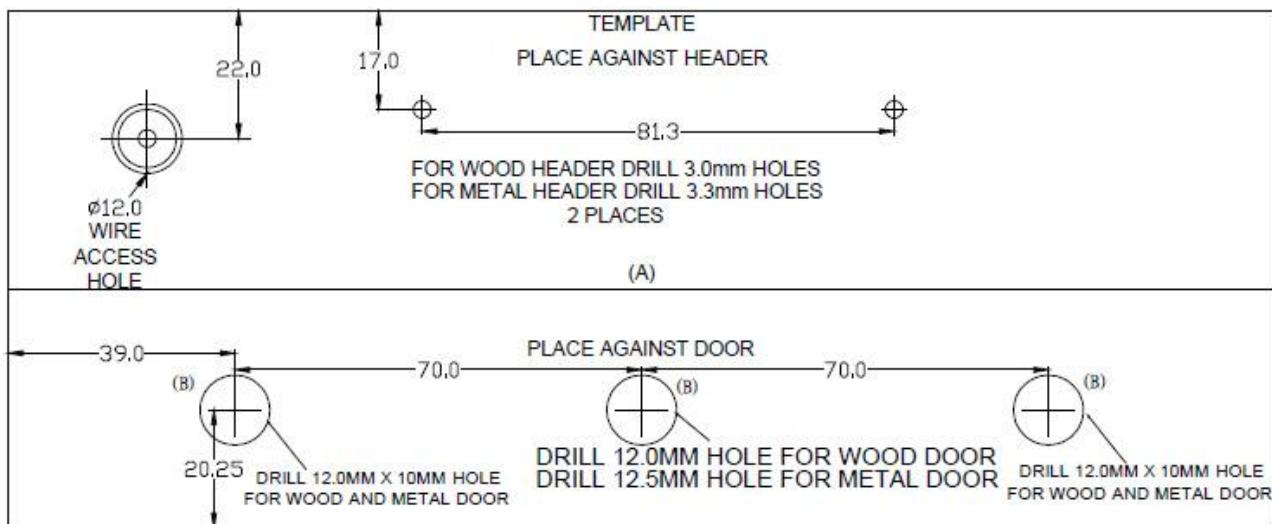


Dimension of the holes in door for
locating pin is $\Phi 12$, with a depth of 7mm



MEM2400-LP Installations

MEM2400-LP Installation For Out-Swing (Standard) Door



Template for MEM2400-LP installed on out-swing (standard) door

NOTE:

It is important to follow all the suggested drilling sizes as indicated on the template

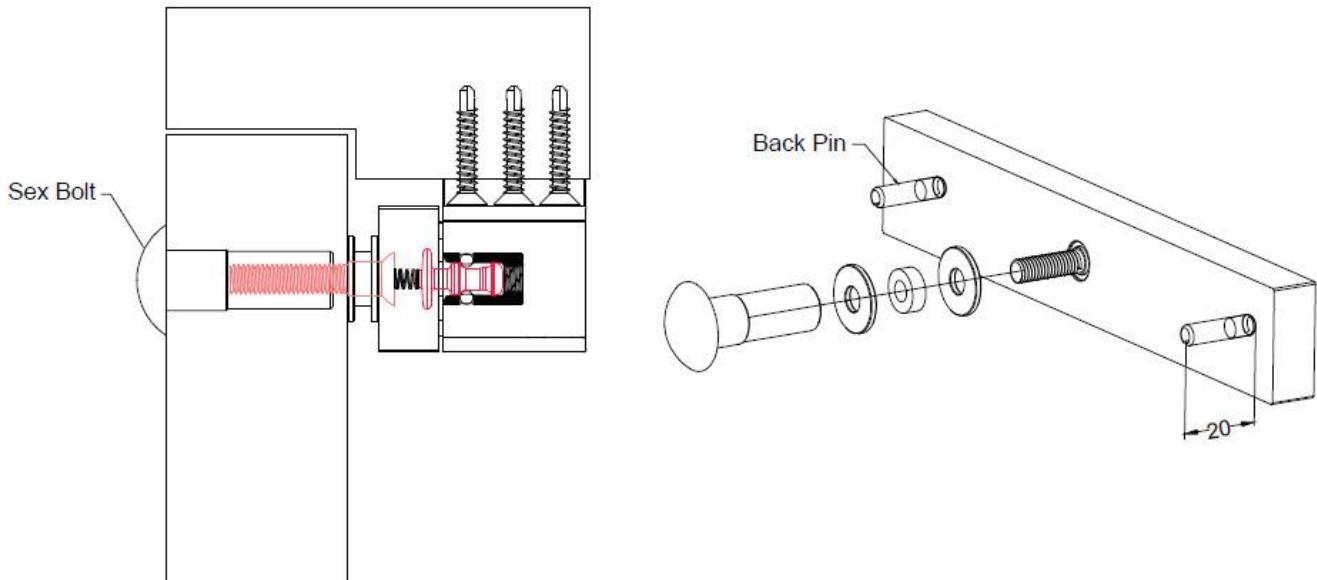
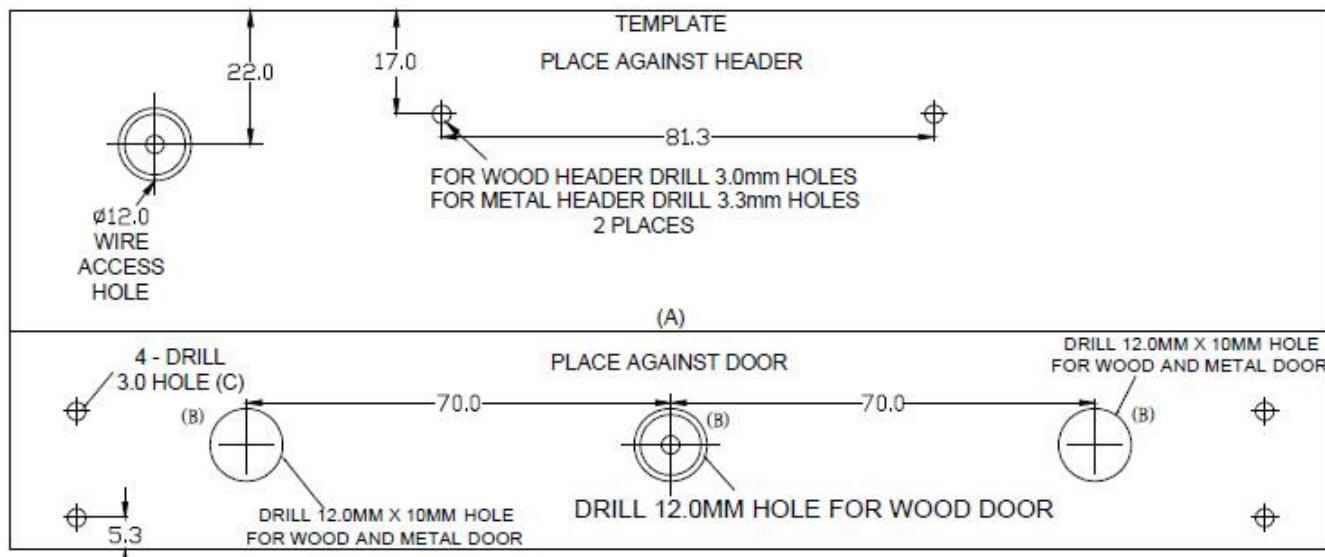


Illustration of MEM2400-LP installation for out-swing (standard) door



MEM2400-LP With Security Plate Installation For Out-Swing and In-Swing Wooden Door



Template for MEM2400-LP with Security Plate installed on out-swing and in-swing wooden door

NOTE:

It is important to follow all the suggested drilling sizes as indicated on the template

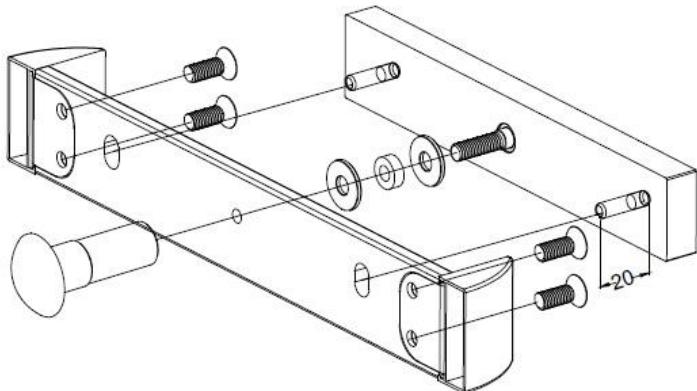
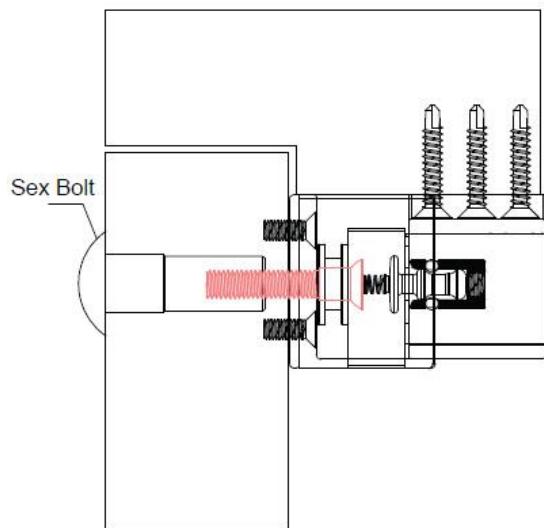


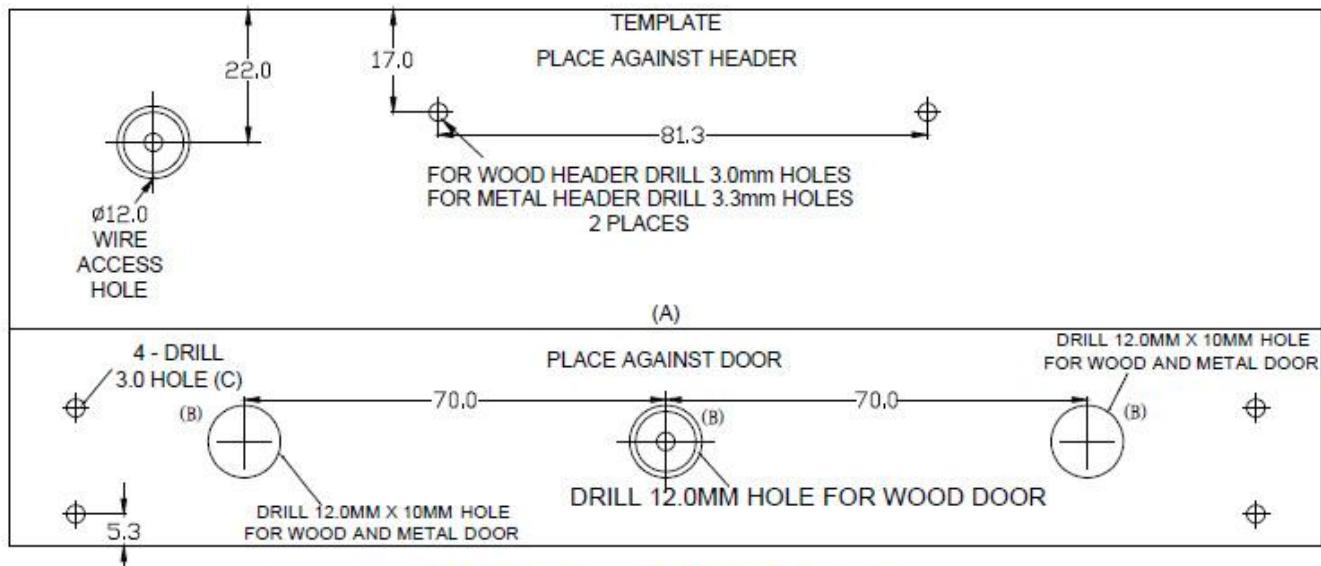
Illustration of MEM2400-LP with Security Plate installation for out-swing and in-swing wooden door

NOTE:

The purpose of the Security Plate is to cover up the first row of exposed screws viewed from bottom of the main lock body. This configuration will avoid unauthorized personnel to unscrew the exposed screws when the door is locked



MEM2400-LP With Security Plate Installation For Out-Swing and In-Swing **Metallic** Door



Template for MEM2400-LP with Security Plate installed on out-swing and in-swing metallic door

NOTE:

It is important to follow all the suggested drilling sizes as indicated on the template

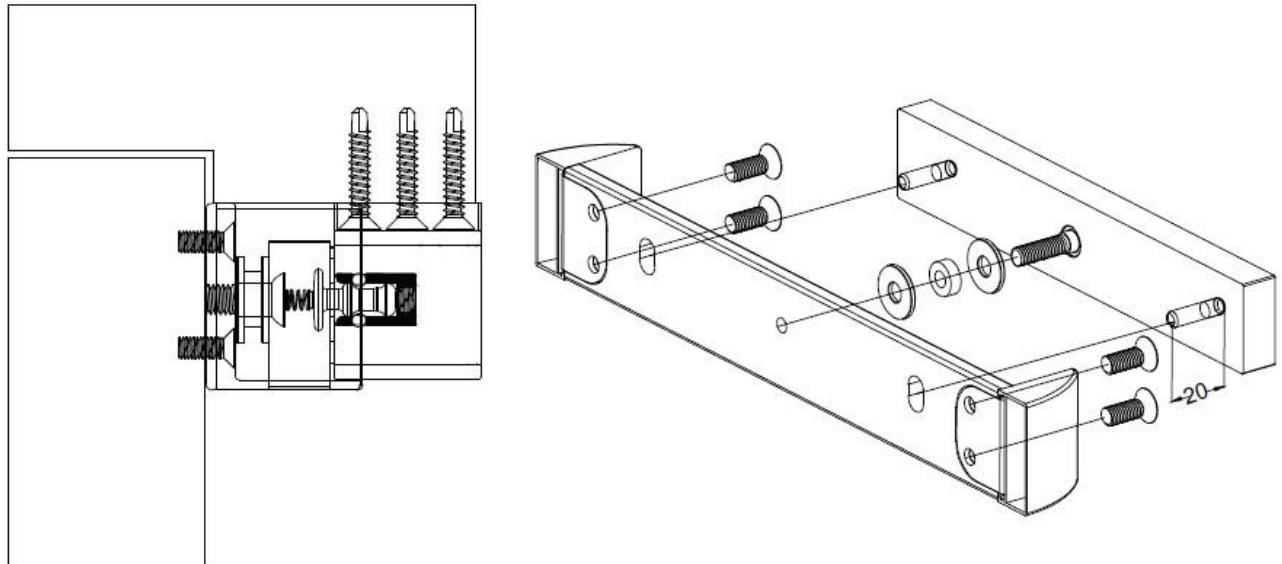


Illustration of MEM2400-LP with Security Plate installation for out-swing and in-swing metallic door

NOTE:

The purpose of the Security Plate is to cover up the first row of exposed screws viewed from bottom of the main lock body. This configuration will avoid unauthorized personnel to unscrew the exposed screws when the door is locked



MEM2400-LP Installation For Out-Swing Glass Door With Narrow Door Gap

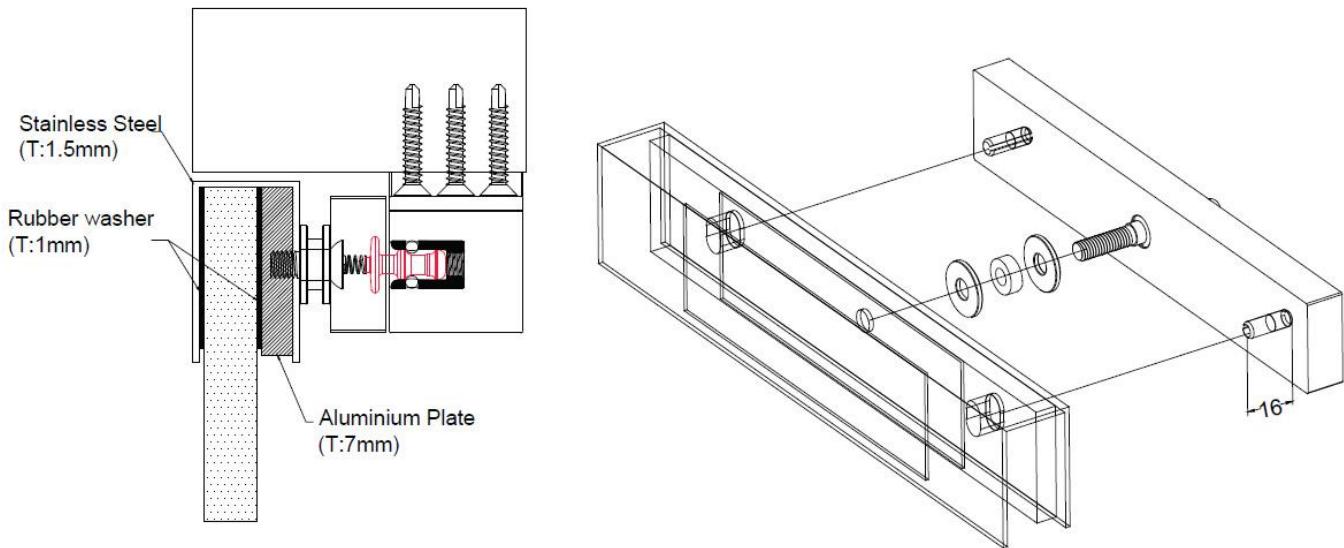
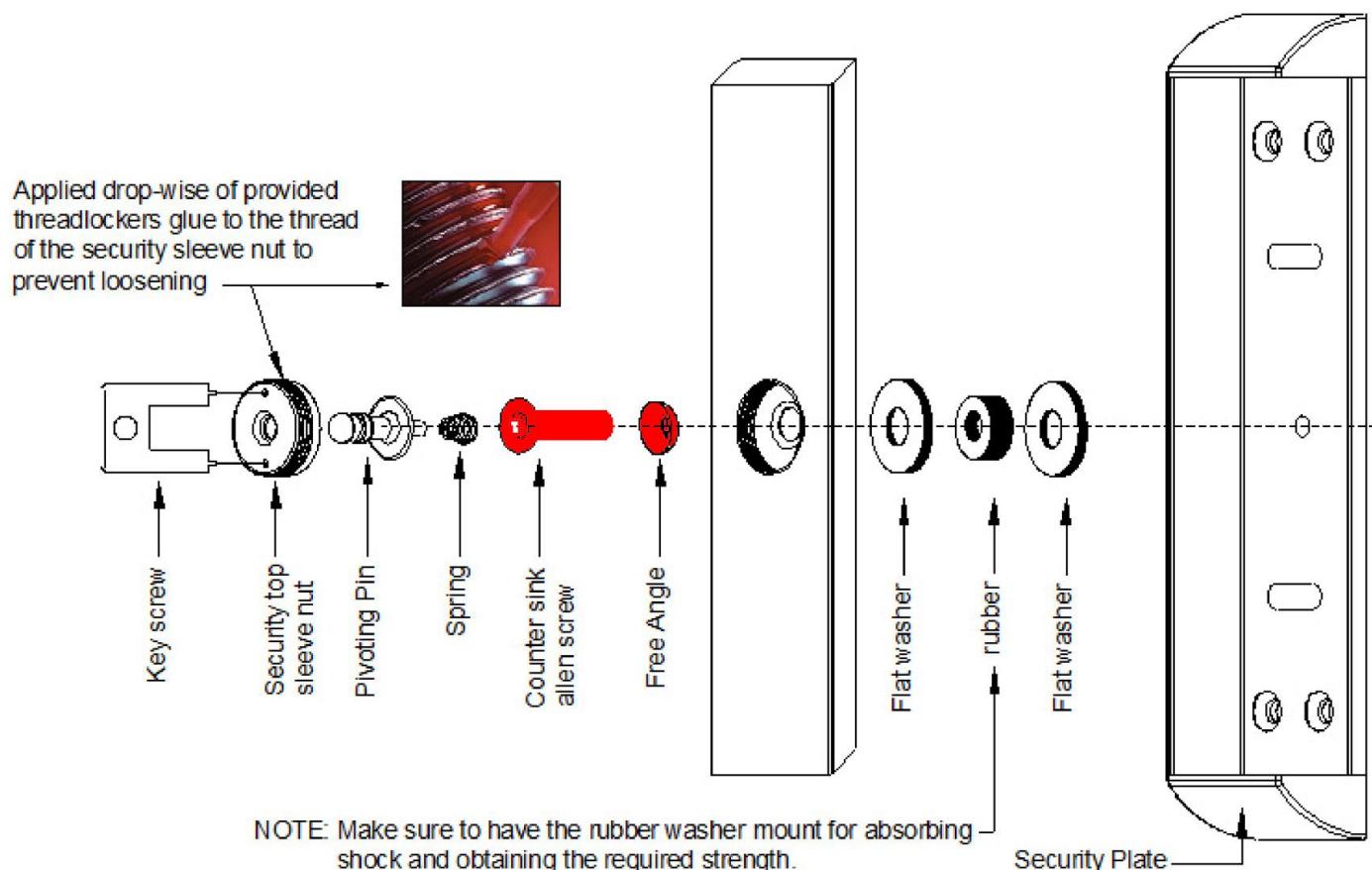


Illustration of MEM2400-LP with Stainless Steel U-Bracket (UBG 12-24-SS)
installation for out-swing glass door with narrow door gap



Assembly of MEM2400-LP Armature Plate





MEM2400-LP Series Models and Accessories

MEM2400-LP SERIES	MODEL NUMBER	DESCRIPTION
Models	MEM2400-LP	Mechanical Electromagnetic lock with Light Panel
Brackets	SEC2400	Security Plate for MEM2400-LP
	UBG12-24-SS	Stainless Steel U-shaped Bracket for glass door installation when door gap is <= 3mm
	ATB 2400	Adjustable bracket for MEM2400-LP