PLEASE READ BEFORE INSTALLATION

Familiarize yourself with the gate and post conditions prior to installation. The lock must rigidly mount to the gate post. The armature is designed to pivot slightly to compensate for reasonable misalignment. Due to the wide diversity of gate designs custom mounting brackets may be necessary to facilitate the installation. A DynaLock universal Gate Lock Bracket ("GLB" Option) is available to accomodate the majority of gate applications and may be purchased separately.

HANDLING

The Electromagnetic lock and armature are ruggedly constructed and designed to provide years of trouble-free service. Care must be taken during installation and use to keep the lock face and armature face free from dirt, rust, burrs, paint, or any other obstruction which may interfere with the lock and armature making good contact.

MAINTENANCE

The lock assembly and gate armature have been plated for maximum corrosion resistance. To ensure peak performance clean the lock and armature faces with a mild detergent and a clean, soft cloth, then apply a light coat of WD40 to lubricate and protect these surfaces. This need only be done when dirt build-up is noticed.

GENERAL MOUNTING INFORMATION

SWING GATE

Typical installation depicting the #2513 lock mounted to the vertical gate post. The armature is mounted to the gate using the adjustable Gate Lock Bracket ("GLB" Option), available from DynaLock.

SLIDE GATE

Typical installation depicting the use of "L" brackets custom-fabricated to suit the gate. The #2513 lock is mounted to the vertical gate post. The armature is mounted to the leading edge of the gate.

DynaLock
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Phone:(860) 582-4761 • Fax:(860) 585-0338
MOUNTING PREPARATION

1. SURVEY THE INSTALLATION

Inspect the gate and determine if supplemental brackets and/or special mounting hardware will be required for installation (refer to page 1 "General Mounting Information"). If you are using the optional DynaLock Gate Lock Bracket refer to the instructions furnished with the bracket for specific installation information. Fabricate/procure custom bracket(s), hardware, and/or attachments as necessary.

2. PREPARE THE GATE POST FOR MOUNTING THE GATE LOCK ASSEMBLY

Determine the desired location for mounting the 2513 Gate Lock assembly on the gate post. Orient the end of the lock with the 3/4" threaded conduit fitting relative to the location of electrical hook-up wiring.

If you are mounting the lock assembly directly to the post, locate, mark, and drill four (4) 9/64" dia. mounting screw holes as per Fig. "A" on page 3. If using an intermediate bracket to affix the lock assembly to the post, prep the mounting screw holes accordingly.

3. MOUNTING THE ARMATURE

Attach the armature housing to the gate using two (2) #8 x 1" sheet metal screws or drill and tap for 8-32 x 3/8" machine screws. Follow hole spacing dimensions shown in Figure B of this manual. Refer to the illustration below to select the correct mounting hardware and mount the armature. Failure to properly secure the armature to the gate could result in serious injury or possible security breach.
5. MOUNTING THE MAGNET

Using a phillips head screw driver mount the magnet assembly to the gate with the four #10 x 1" self-tapping screws provided. Place the end covers on and screw them in with the #8-32x1/4" phillips flat head screw.

6. VERIFY PROPER ALIGNMENT

Close the gate and verify the lock face and armature are making full contact for the entire armature length. Make corrective adjustments as necessary.

7. COMPLETION

The mechanical installation is now complete. Refer to separate wiring instructions for electrical hook-up. (Refer to Dwg. #900265)
WIRING INSTRUCTIONS

NOTES:
1. INPUT POWER HOOK-UP IS NOT POLARITY SENSITIVE.
2. DYNASTAT FORCE SENSOR OPTION (DYN) INDICATES TRUE SECURE/UNSECURE STATUS OF LOCK.
3. FOR AC OPERATION, USE DYNALOCK RECTIFIER PART #7088.

DYNASTAT (DYN) TYPICAL WIRING

#7088 RECTIFIER WIRING

INPUT
24 VDC
0.25 A

INPUT
12 VDC
0.50 A

DYNASTAT OPTION OUTPUT. SPDT RATED 0.25 A @ 24V. STATE OF CONTACTS SHOWN WITH LOCK POWER OFF AND/OR DOOR NOT SECURE.

DYNASTAT (DYN) TYPICAL WIRING

TO INDICATOR POWER SUPPLY

AC INPUT
DC OUTPUT TO LOCK

RED
GREEN
WHITE
UNSECURE
SECURE

#7088 RECTIFIER WIRING

DC OUTPUT TO LOCK

AC INPUT

RED
WHT
BLK
WHT
(+)

INPUT
24 VDC
0.25 A

INPUT
12 VDC
0.50 A

GREY
WHITE
BLACK
YELLOW
MOV

NOTES:
1. INPUT POWER HOOK-UP IS NOT POLARITY SENSITIVE.
2. DYNASTAT FORCE SENSOR OPTION (DYN) INDICATES TRUE SECURE/UNSECURE STATUS OF LOCK.
3. FOR AC OPERATION, USE DYNALOCK RECTIFIER PART #7088.
MOUNTING PREPARATION

1. DETERMINE THE PREFERRED MOUNTING CONFIGURATION

From the illustrations below determine whether the Gate Lock Bracket will be used to mount the #2513 armature or magnet assembly. Select the hardware indicated and follow the specific instructions to mount the desired component.

- **2513 ARMATURE MOUNTING**
  - Firmly tighten the armature mounting screw with a 3/16" hex wrench. Failure to properly secure the armature to the bracket could result in serious injury or a possible...

- **2513 MAGNET ASSEMBLY MOUNTING**
  - Secure the 2513 magnet assembly using the screws provided with the GLB. Firmly tighten the screws using a 5/32" hex wrench.

2. PREPARE THE GATE FOR MOUNTING THE BRACKET

From the three illustrations on the top of page 6 select the one that resembles your gate type and follow the instructions for drilling the mounting screw holes.

**The Gate Lock Bracket is an option that is not included in the standard 2513 lock**
HOLLOW TUBE GATE
Drill an 11/32" diameter hole through gate. From sex nut side only enlarge the 11/32" hole to 21/32" diameter.

SOLID CORE GATE
Drill an 11/32" diameter hole through gate. From sex nut side only drill 1/2" diameter hole to 1" depth.

REINFORCED TUBE GATE
Drill an 17/64" diameter hole and tap for 5/16"-18 thread.

3. ADJUSTING THE BRACKET

If necessary the Gate Lock Bracket may be adjusted to compensate for unusual clearance and offset conditions on the gate assembly (Refer to Figure "A"). Adjust the bracket as follows:

a. Using the 5/32" hex wrench provided loosen the two bracket assembly screws two (2) full turns each.

b. Slide the two halves of the bracket apart as required. Align the locking rib on the bottom of the upper half with a matching groove on the lower half (Refer to Figure "B"

c. Firmly re-tighten the assembly screws, verify proper gate and lock alignment and operation and re-adjust as necessary.

** The Gate Lock Bracket is an option that is not included in the standard 2513 lock
GATELOCK BRACKET BILL OF MATERIAL

1 - Mounting Instructions
1 - Gate Lock Bracket Assembly
1 - Hardware Kit consisting of:
   4 - 1/4-20 x 3/4" socket cap head machine screws (Gate Lock Mtg. Screws)
   1 - 5/16-18 x 3/4" hex flat head machine screw (Armature Mtg. Screw)
   1 - 5/32" Hex Wrench
2 - Mounting Bolt Assemblies, each consisting of:
   1 - 5/16-18 x 1-3/4" hex flat head machine screw
   1 - 5/16-18 Sex Nut
   1 - 1-11/16" long Door Spacer

TOOLS REQUIRED

1 - Electric Drill
1 - 3/16" Hex Wrench
1 - 11/32" Drill Bit
1 - 21/32" Drill Bit
1 - 1/2" Drill Bit
1 - 17/64" Drill Bit
1 - Hammer
1 - Center Punch
1 - Pencil

** The Gate Lock Bracket is an option that is not included in the standard 2513 lock **

DESCRIPTION
1. Assembly Screw
2. Lock Washer
3. Hex Wrench
4. Upper Bracket
5. Lock Mtg. Screw
6. Armature Housing Mtg. Screw
7. Armature Mounting Screw
8. Lower Bracket
9. Mounting Screw
10. Door Spacer
11. Sex Nut

GATE LOCK BRACKET
EXPLODED VIEW
2013 BILL OF MATERIAL

1 - Mounting Instructions
1 - Wiring Instructions
1 - Electromagnetic Gate Lock
1 - Hardware Kit

TOOLS REQUIRED
1 - Electric Drill
1 - #2 Phillips Head Screw Driver
1 - Soft-faced Mallet
1 - 3/16" Hex Wrench
1 - 11/32" Drill Bit
1 - 21/32" Drill Bit
1 - 17/64" Drill Bit
1 - 9/64" Drill Bit
1 - 1/4" Drill Bit
1 - Hammer
1 - Center Punch
1 - Pencil

DESCRIPTION PART NUMBER
1. Magnet Assembly 300141
2. Armature 301332
3. Armature Housing
4. End Cover
5. End Cover Mounting Screws
6. Mounting Screws
7. Armature Spacer
8. Steel Washer
9. Armature Bolt
10. Door Spacer
11. Sex Nut
12 Armature Housing Mounting Screws

Hardware Kit
Part #301453

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