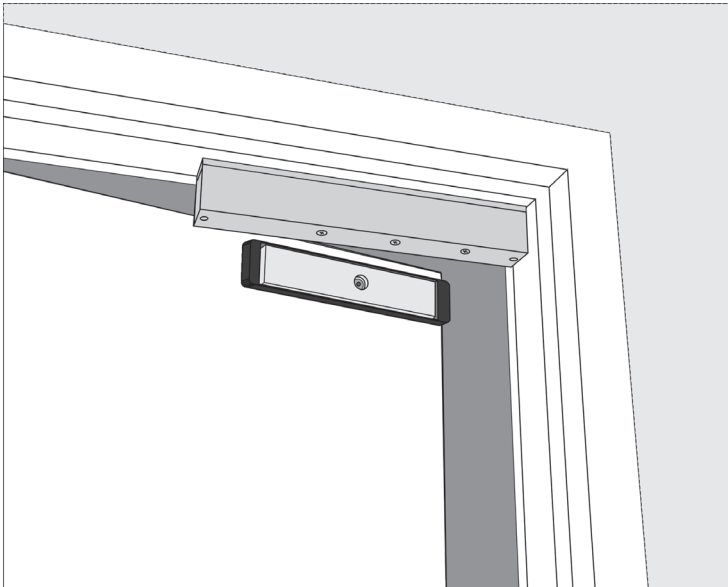


### INSTALLATION DESCRIPTION



The Series 2050 is a 1200 pound holding force electromagnetic lock designed to retro-ft a Locknetics 350 on a single outswing door. The lock requires both installation procedures as described herein and in the separate wiring instructions included.

*The illustration to the left shows a typical installation on a single outswing door.*

### HANDLING

Care must be taken that the lock face and armature face are kept free of dirt, rust, paint, or any other obstruction which may interfere with the lock and armature making good contact. These faces may be cleaned with a non-abrasive pad and wiped with an oil dampened cloth.

### MECHANICAL INSTALLATION

Familiarize yourself with the door and frame conditions. The lock must mount rigidly to the face of the door frame header. The door mounted armature is supplied with an adjustable mounting bracket and hardware that allows it to pivot slightly to compensate for reasonable misalignment.

**NOTE:** If this lock is supplied with the DSM option be certain that disc magnets are present inside the armature housing.

### ELECTRICAL INSTALLATION

After mechanical installation is complete the lock needs to be wired to a 12 or 24 VDC/VAC power source. Once low voltage power is supplied the unit is fully operational. All other wiring is for selected options. Refer to the separate wiring instructions included for further information.



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## MODEL 2050 SINGLE OUTSWING ELECTROMAGNETIC LOCK

### INSTALLATION INSTRUCTIONS

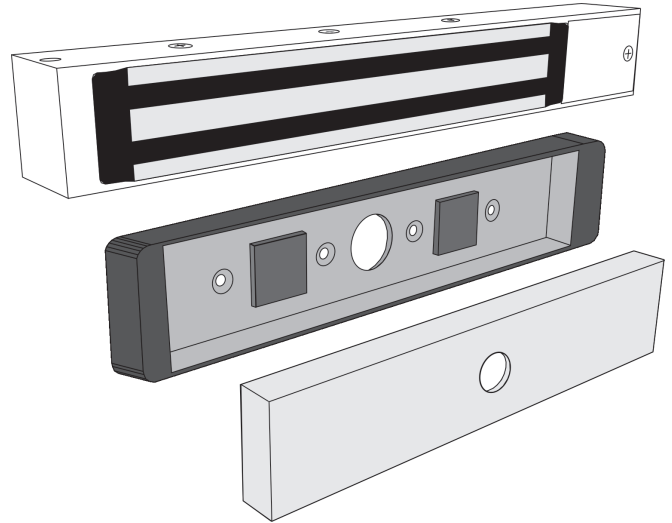
#### TABLE OF CONTENTS

General Information.....	1
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Using The Template.....	3
Mounting The Armature.....	4
Mounting The Lock.....	5
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Support.....	8

#### REQUIRED TOOLS

- (1) Electric Drill
- (1) #2 Phillips Screw Driver
- (1) Soft Faced Mallet
- (1) Hammer
- (1) Center Punch
- (1) Pencil & Tape
- Drill Bits: 1/8", 17/64", 11/32", 1/2", 9/16", 21/32"

#### MODEL #2050 BILL OF MATERIALS



- (1) 2050 LOCK ASSEMBLY
- (2) ARMATURE
- (1) ARMATURE HOUSING
- (1) HARDWARE KIT
- (1) MOUNTING TEMPLATE
- (1) INSTALLATION MANUAL
- (1) WIRING MANUAL

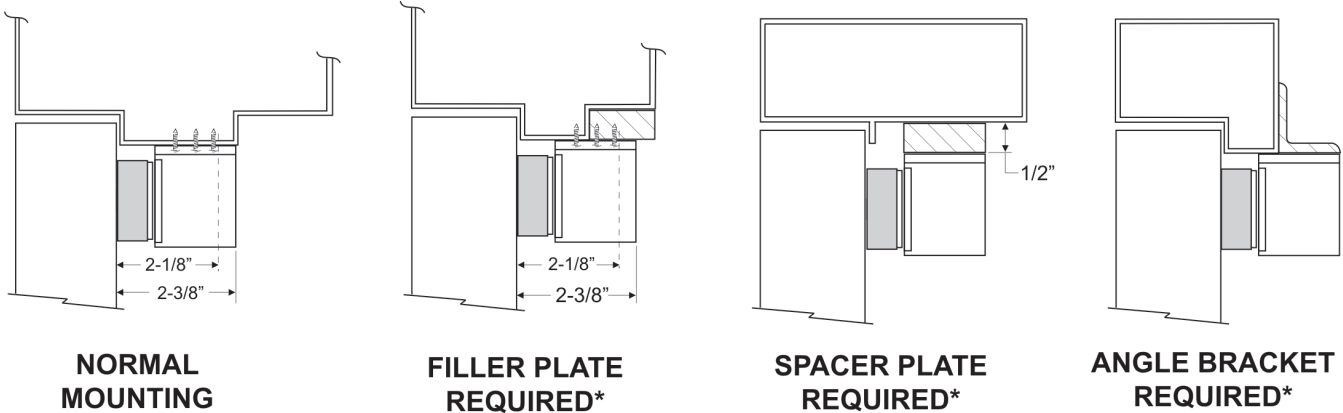
#### HARDWARE KIT CONTENTS (P/N 301498)

QTY.	ITEM	DESCRIPTION
6	BASEPLATE MOUNTING SCREWS	#10x1" PHILLIPS HEAD SHEET METALSCREW
6	BASEPLATE MOUNTING SCREWS	#10-24x1/2" PHILLIPS PAN HEAD MACHINE SCREW
1	ARMATURE MOUNTING SCREWS	5/16-18x2" HEX FLATHEAD MACHINE SCREW TURNED
4	ARMATURE HOUSING SCREWS	#8x1" PHILLIPS FLATHEAD SHEET METALSCREW
4	ARMATURE HOUSING SCREWS	8-32x3/8" PHILIPS FLATHEAD MACHINE SCREW
1	ARMATURE SPACER	3/8" Dx0.235"L SPACER
1	STEEL WASHER	1/4"FLATZINC WASHER
1	DOOR SPACER	5/8" Dx1-11/16" L SPACER
1	SEX NUT	5/16"-18 SEX NUT
1	HEX KEY	10/32" HEX KEY

**NOTE:** For further parts clarification refer to the Exploded Parts View on page 6 or consult factory.

#### MOUNTING CONSIDERATIONS

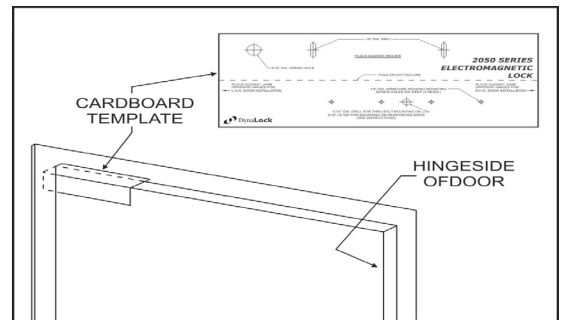
Inspect the door frame and determine if an angle bracket or filler plate will be required for installation. The lock will require a 2" wide header stop for a suitable mounting surface.



\*See Price Book or Call DynaLock Corp.

#### USING THE TEMPLATE

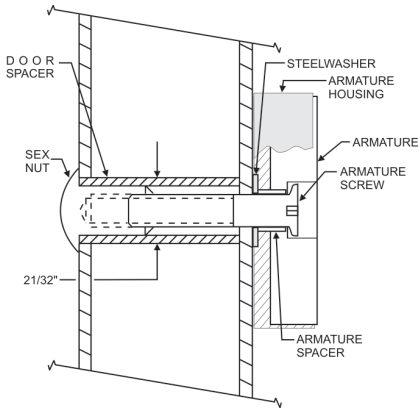
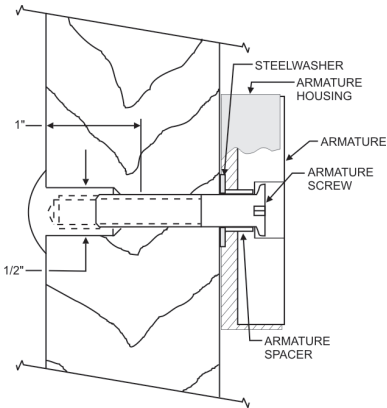
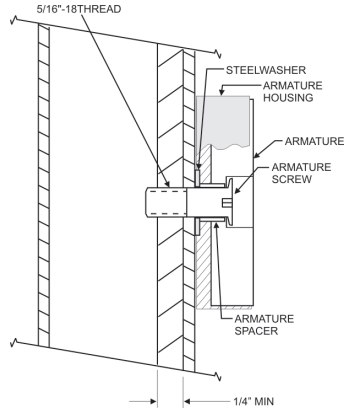
1. Fold the template on the dotted line to form a 90 degree angle. Scoring the template with a straight edge and a screwdriver will make it fold easier.
2. With the door closed and in the latched position, from the push side, place the template against the header and door on the frame, and tape in place.
3. Transfer all hole locations to both the door and header with a center punch, then remove the template from the door.
4. Referring to the template drill two 1/8" diameter lock mounting holes (or tap for 10-24) and one 9/16" diameter wiring hole in the top of the frame, at all transferred locations. Remaining mounting holes will be drilled after the lock is first mounted and adjusted (page 6).
5. Drill the remaining transferred holes in the face of the door to accept the armature following the instructions on page 4 for your specific door type.



### MOUNTING THE ARMATURE

From the three illustrations below select the one that resembles your door type and follow the instructions for drilling the Armature mounting screw hole. (See Template)

Drill four (4) 1/8" dia. holes for #8 x 1" sheet metal screws or drill and tap for #8-32 x 3/8" machine screws (See Template).

GLASS AND ALUMINUM OR HOLLOW METAL DOOR	SOLID CORE DOOR	REINFORCED DOOR
 <p>Drill an 11/32" diameter hole through the door. From the sex nut side only enlarge the hole to 21/32" diameter.</p>	 <p>Drill an 11/32" diameter hole through the door. From the sex nut side drill 1/2" diameter hole to 1" depth.</p>	 <p>Drill a 17/64" diameter hole and tap for 5/16-18 thread</p>

Mount the Armature Housing to the door using four (4) #8 x 1" sheet metal screws or #8-32 x 3/8" machine screws.

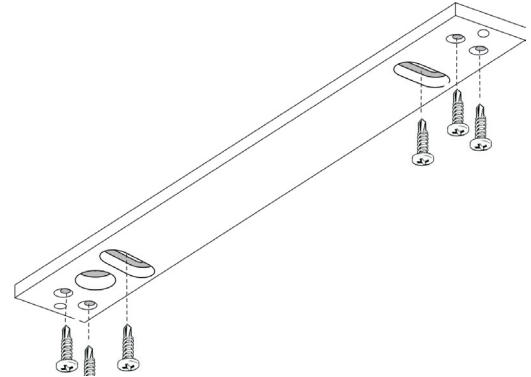
Place the Armature inside the Armature Housing and secure using the proper hardware, according to the above illustrations. Firmly tighten the Armature mounting screw with a 3/16" hex wrench.

**Failure to properly secure the Armature to the door could result in serious injury or possible security breach.**

#### MOUNTING THE LOCK

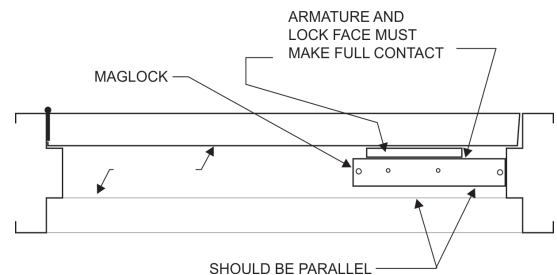
##### 1. Mounting the baseplate to the header:

Separate the baseplate from the lock housing with the hex wrench. Place the baseplate against the header with the counter sunk slots visible, and the large slot over the wire hole. Using an electric drill with a Phillips bit attach the baseplate to the header at both slotted locations with the screws provided. Tighten the screws just snug enough to allow for final adjustments.



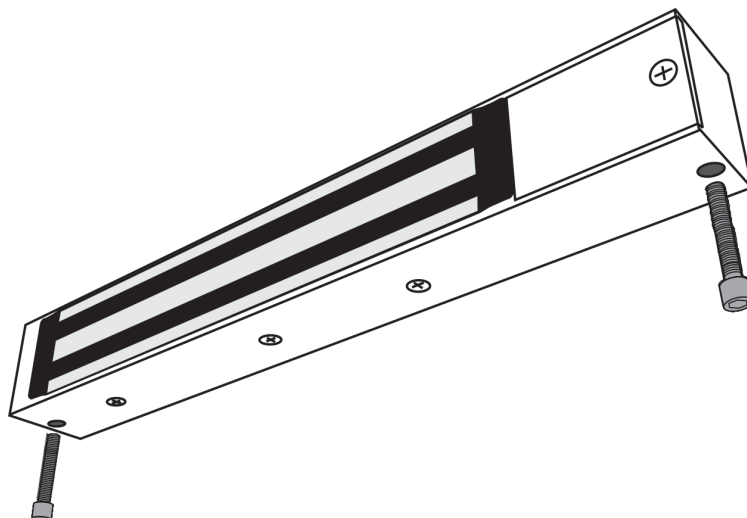
##### 2. Aligning the lock and armature

Close and latch the door. Temporarily mount the lock to the baseplate and verify the lock face and the armature are making full contact for the entire length of the armature. If any adjustment required gently tap the baseplate with a soft mallet until full contact is achieved. Mark the 2 baseplate corner locations lightly with a pencil for reference. Remove the lock from the baseplate and tighten both adjustment screws. Drive the remaining 4 screws into the header using the baseplate as a physical template. Screw heads must not project above the baseplate.

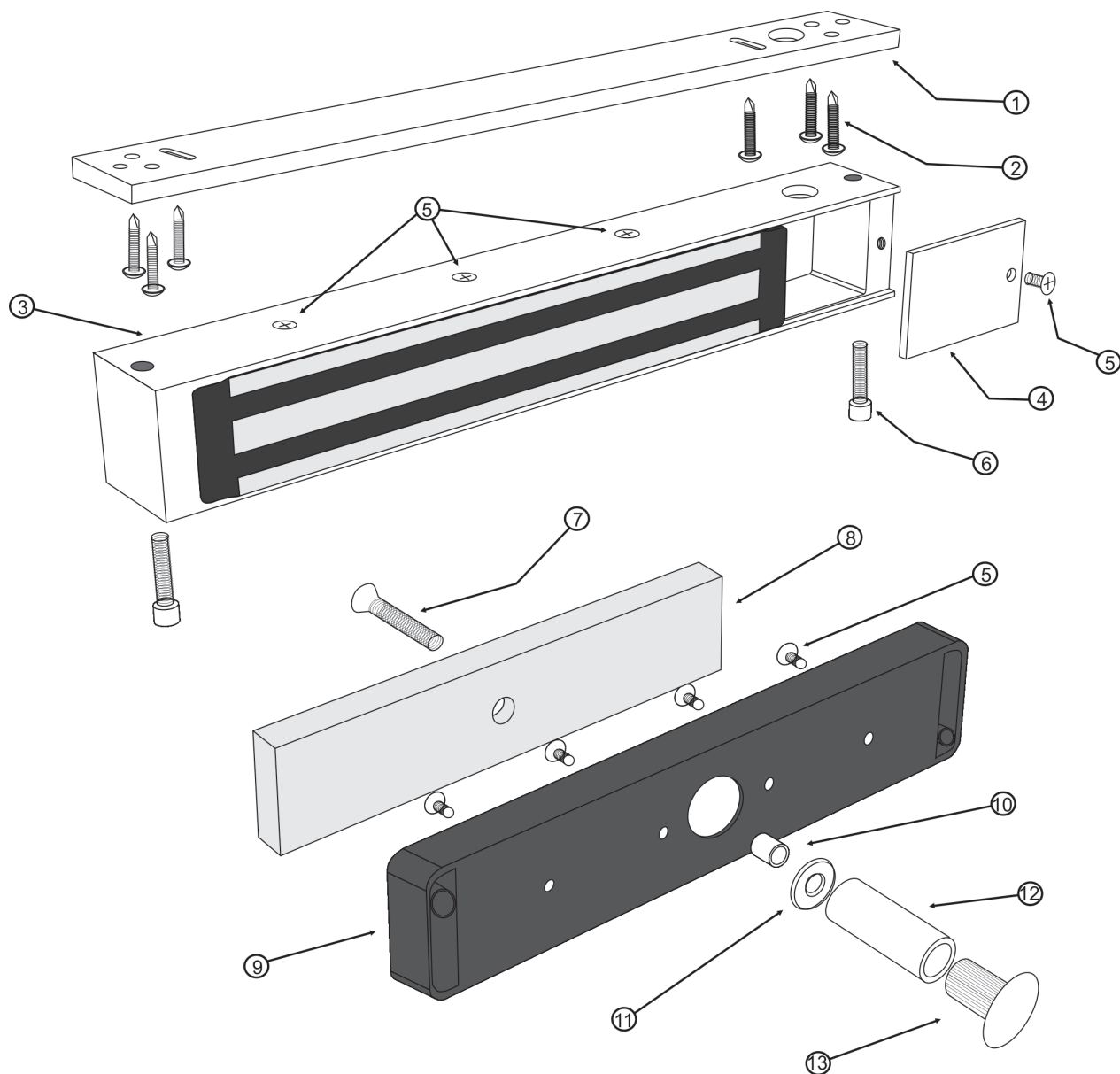


##### 3. Attaching the lock to the baseplate

Using the Hex wrench, permanently fasten the lock to the baseplate with the two 1/4"-20 x 1 1/4" machine screws removed in step 1.



**EXPLODED PARTS VIEW**



**ARMATURE  
 ASSEMBLY  
 (TYPICAL)**

**LEGEND ON NEXT PAGE**

## PARTS LEGEND

ITEM	DESCRIPTION	PART #
1	MOUNTING BASEPLATE	301495
2	#10 x 1" SELF TAPPING SCREW	*****
3	HOUSING	301496
4	ACCESS COVER	301497
5	8-32 x 3/8" MACHINE SCREW	*****
6	LOCK MOUNTING BOLT	300603
7	5/16"-18 x 2" ARM. SCREW TURNED	*****
8	ARMATURE	300968
9	ARMATURE HOUSING	301333`
10	ARMATURE SPACER	*****
11	ZINC WASHER	*****
12	DOOR SPACER	*****
13	SEX NUT	*****





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## MODEL 2050 SINGLE OUTSWING ELECTROMAGNETIC LOCK

### **INSTALLATION INSTRUCTIONS**

**PLEASE DELIVER THIS MANUAL  
TO THE END-USER UPON COMPLETION  
OF THE INSTALLATION**

**FOR PRODUCT SUPPORT AND PARTS  
ORDERING INFORMATION CONTACT:**

DynaLock Corp.  
705 Emmett Street  
Bristol, CT 06010  
Bus: (877) 396-2562 Toll-Free  
(860) 582-4761  
Fax: (860) 585-0338

**DYNALOCK ON THE INTERNET:**

E-mail: [info@dynalock.com](mailto:info@dynalock.com)  
Website: [www.dynalock.com](http://www.dynalock.com)



**NYC Mea #23-92-E**

**GWXT Auxiliary Lock**



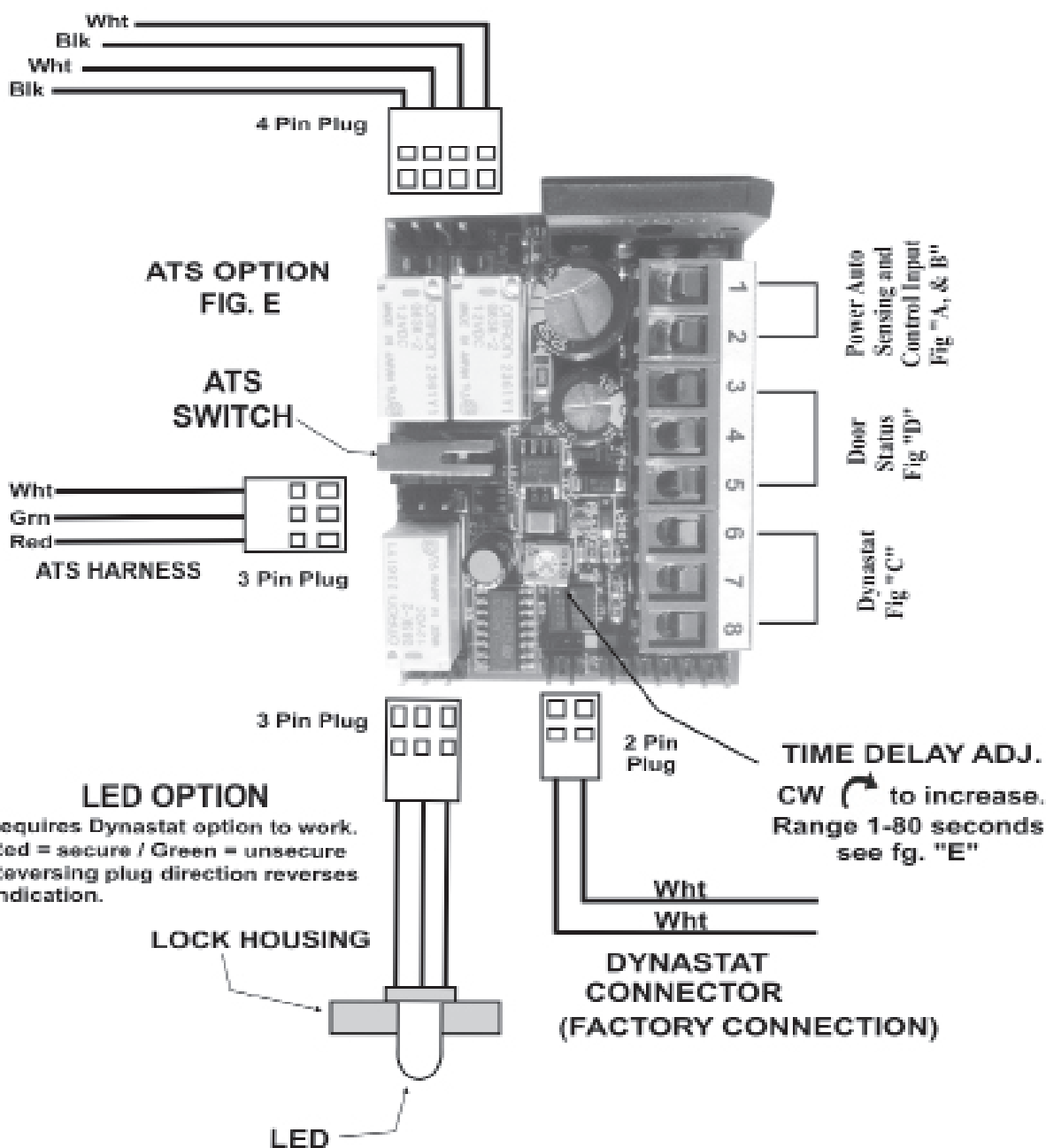
PLEASE READ BEFORE ATTEMPTING INSTALLATIONS

## 3000/ 3000LC/ 2000/2050/2280 SERIES

### CIRCUIT BOARD DESCRIPTION

Refer to Page 2 & 3 for wiring instructions

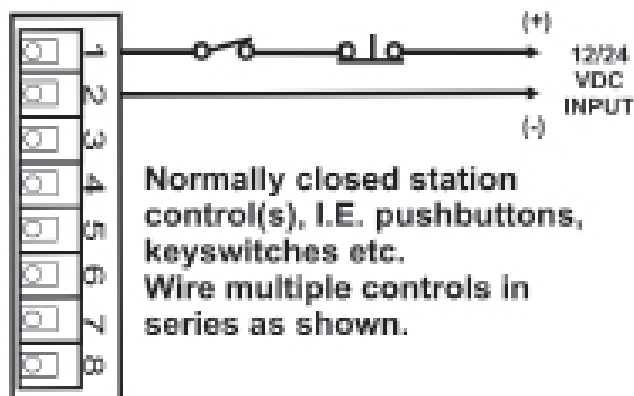
The Coil Connector is not polarized and may go on in either direction.



# WIRING INSTRUCTIONS

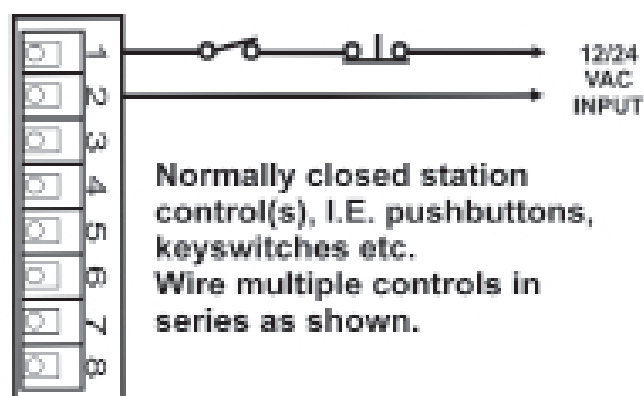
## FIG. A

3000/2000/2280  
12/24 VDC INPUT



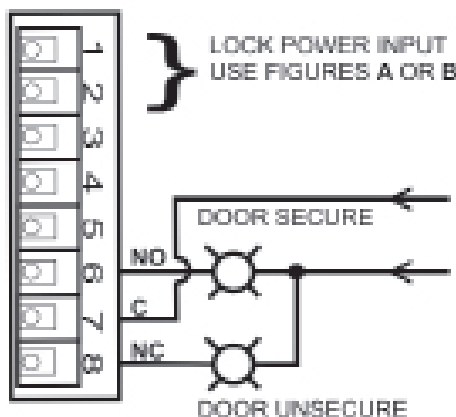
## FIG. B

3000/2000/2280  
12/24 VAC INPUT



## FIG. C

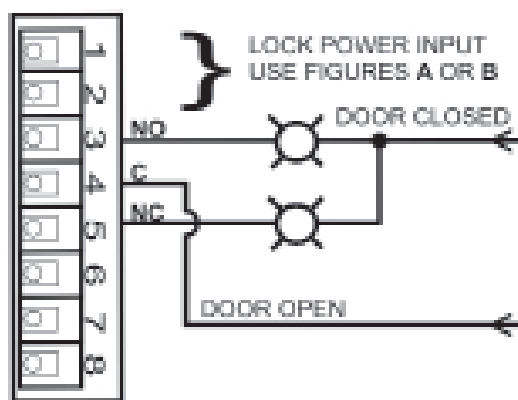
DYNASTAT OPTION



NOTES: 1. DYNASTAT CONTACTS RATED  
1A MAXIMUM  
2. INDICATORS NOT INCLUDED

## FIG. D

DSM OPTION

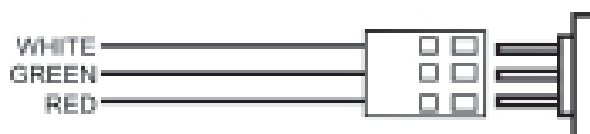
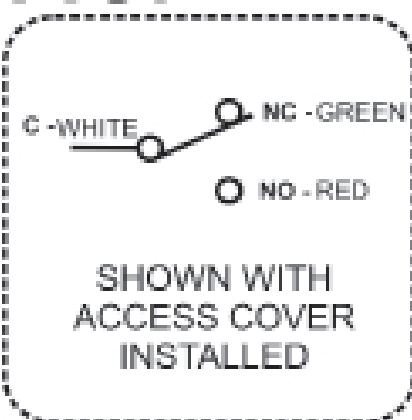


NOTES: 1. DSM CONTACTS RATED  
0.25A MAXIMUM  
2. INDICATORS NOT INCLUDED

## FIG. E

ANT-TAMPER (ATS)  
OPTION

ANTI-TAMPER OPTION INDICATES REMOVAL OF ACCESS COVER. THIS SWITCH IS LOCATED ON THE PRINTED CIRCUIT BOARD.



DRY CONTACT RATING 3A @ 30VDC/125VAC

## ELECTRICAL SPECIFICATIONS

### OPERATING VOLTAGES

12 OR 24 VAC / VDC

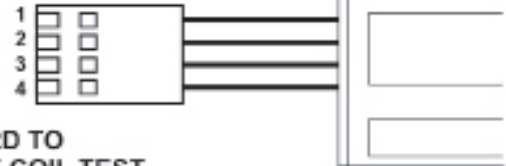
### CURRENT CONSUMPTION, ALL MODELS

12 VAC / VDC - 0.44 A

24 VAC / VDC - 0.22 A

### COIL RESISTANCE CHECK

REMOVE THE  
MAGNET COIL  
CONNECTOR  
FROM THE  
CIRCUIT BOARD TO  
PERFORM THE COIL TEST



PROPER COIL RESISTANCE SHOULD BE  
FROM POINTS 1 TO 3, ~ 53 OHMS  
FROM POINTS 2 TO 4, ~ 53 OHMS

## TROUBLESHOOTING TIPS

SYMPTOM	POSSIBLE CAUSE	CHECK FOR
DOOR WILL NOT LOCK OR NO MAGNETIC HOLDING FORCE	<ul style="list-style-type: none"> <li>• NO INPUT POWER</li> <li>• AN OPEN CIRCUIT IN THE COIL</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> CHECK ALL CONNECTIONS. CHECK FOR VOLTAGE AT POWER SOURCE AND LOCK TERMINAL STRIP.</li> <li><input type="checkbox"/> PERFORM THE COIL RESISTANCE CHECK. REFER TO BOTTOM OF THE PAGE 3.</li> </ul>
LOW HOLDING FORCE	<ul style="list-style-type: none"> <li>• ARMATURE MOUNTING TOO RIGID</li> <li>• INSUFFICIENT SUPPLY VOLTAGE</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> CHECK ARMATURE MOUNTING FOR FREE PIVOTING AND FULL CONTACT BETWEEN THE MATING SURFACE OF THE LOCK AND ARMATURE.</li> <li><input type="checkbox"/> CHECK SUPPLY FOR PROPER INPUT VOLTAGE, SHOULD BE WITHIN 10%</li> </ul>
MAGNET OVERHEATS AND / OR DRAWS EXCESS CURRENT	<ul style="list-style-type: none"> <li>• POSSIBLE SHORTED COIL</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> PERFORM THE COIL RESISTANCE CHECK. REFER TO BOTTOM OF PAGE 3.</li> </ul>
DYNASTAT BOND SENSOR NOT INDICATING DOOR SECURE WHEN CLOSED AND LOCKED (WHEN APPLICABLE)	<ul style="list-style-type: none"> <li>• MAGNET AND / OR ARMATURE FACE DIRTY OR BURRED</li> <li>• POOR LOCK / ARMATURE ALIGNMENT</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> CLEAN BOTH SURFACES WITH SCOTCH BRITE TYPE CLOTH AND APPLY WD-40. CHECK FOR BURRS.</li> <li><input type="checkbox"/> CORRECT AS NECESSARY</li> </ul>
DSM (DOOR STATUS MONITOR) NOT INDICATING DOOR CLOSED / OPEN STATUS (WHEN APPLICABLE)	<ul style="list-style-type: none"> <li>• DSM MAGNETS NOT INSTALLED IN ARMATURE HOUSING</li> <li>• POOR LOCK / ARMATURE ALIGNMENT</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> REPLACE / INSTALL AS NECESSARY</li> <li><input type="checkbox"/> CORRECT AS NECESSARY</li> </ul>

**Notes:**

1. This lock may accept any one of 4 different input voltages and be furnished with a combination of options. Refer to page 1 for option location and pages 2 and 3, figure A thru E, for wiring instructions that apply to your specific installation.
2. For additional system wiring information, refer to the installation documentation furnished with the external hardware and / or peripheral devices (I.E. power supply, station controls, keypad, card readers, etc.) supplied by DynaLock and / or others.

**PLEASE DELIVER THIS MANUAL  
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**FOR PRODUCT SUPPORT AND PARTS  
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**DYNALOCK ON THE INTERNET:**

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Website: [www.dynalock.com](http://www.dynalock.com)