## MODEL 176S MOUNTING INSTRUCTIONS FOR ASTERIX SERIES ELECTRO-MAGNETIC LOCKS

IMPORTANT! READ THOROUGHLY BEFORE ATTEMPTING INSTALLATION.

DO NOT DAMAGE OR MARK MAGNETIC LOCK OR ARMATURE FACE- MAY REDUCE HOLDING EFFICIENCY.

See Figure 1 elevation profiles to determine mounting application requirements for each individual application.

NOTE: A 2-21/2" (64)mm reveal is required to assure rigid mounting of the 176 series magnetic lock assembly.

STEP 1. Mark door(s) according to armature template and dimensions on reverse side.

**SIDE 2.** Drill and prep holes in door per armature template on reverse side.

STEP 3. Gently tap (2) 3-16" (5mm) diameter springs pins into rear side of armature(s).

**NOTE:** If magnetic lock assembly is equipped with bda (built-in delay actuator) option stop here and refer to instruction sheet magopt-2 for instructions, then proceed to step 5.

STEP 4. Insert one (1) spring washer over 5/16-18 special shoulder screw, insert screw through armature(s). Add three(3) conical spring washers and one (1) flat washer over shoulder shrew(s). See figure 2 - details for each type of to door. Install complete armature assembly on door per figure 2 details.

STEP 5. Tighten shoulder screws(s) securely with allen wrench. (do not overtighten.)

STEP 6. Mark frame for magnetic lock template and dimensions on reverse side.

STEP 7. Remove housing cover of magnetic lock assembly.

STEP 8. Drill and prep frame per d of magnetic lock template, attach magnetic lock assembly to frame using either (2) #14 sheet metal screws or (2) 1/4-20 machine screws and toothed lock washers, tighten only enough to hold unit place. (if filler plate is used, assure that screws go through both filler plate and frame.

STEP 9. Drill 7/8" (22mm) dia hole thru filler plate and frame per template for wiring harness.

STEP 10. Make all electrical connections per applicable wiring diagrams enclosed. Use wire nuts, crimp connectors or solder to assure good connections.

STEP 11. Energize magnetic lock assembly: adjust assembly so door is snug against door stop, tighten (2) preliminary screws securely.

For BDA (Built -in Delay Actuator) OPTION: (See instruction sheet MAGOPT-2)

A. Verify that when door is closed plunger and push button are in the closed position. If proper continuity cannot be obtained, an additional stop washer may be required to move shoulder screw further into push button switch.

B. Energize the system with the door in the closed position. Apply pressure to door, having retracted latch bolt (if used). Verify that compression of belleville washers and electrical state of push button switch indicates door open mode. If electrical output of switch indicates door closed condition, the shoulder screw is adjusted to far into switch, not allowing switch to return to normal position. Stop washer may have to be removed to obtain proper operation.

C. After all adjustments have been made, verify that switch indicates both door closed and attempted exit.

For MBS (Magnetic Bond Sensor) additional wiring details see instruction sheet MAGOPT-1

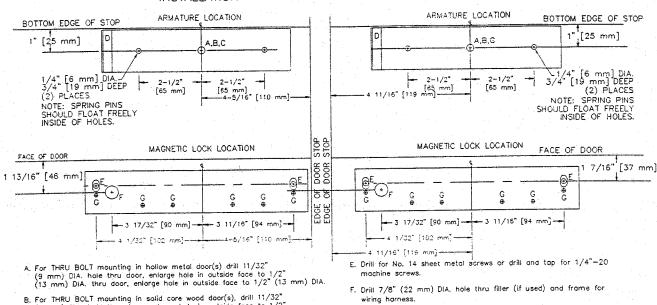
STEP 12. De-energize system using mounting plate as template, drill and tap for 10-32 screws (minimum (2) places). (see magnetic lock template) install screws and tighten securely. Re-energize system, recheck alignment of magnetic lock assembly to armature by opening and closing door(s).

STEP 13. Install magnetic lock housing cover.



## LEFT HAND DOOR INSTALLATION

## RIGHT HAND DOOR INSTALLATION



B. For THRU BOLT mounting in solid core wood door(s), drill 11/32" (9 mm) DIA. hole thru door, enlarge hole in outside face to 1/2" (13 mm) DIA. 1" (25 mm) deep.
C. For REINFORCED DOOR (Minimum 3/8" (10 mm) thickness) drill and tap thru reinforcement for 5/16-18 screw.

 Permanent magnet location, insure that this magnet is aligned with the door position switch (conduit entry side) of the electo-magnet. G. Unstancestad Maggretic3200kastantersplete, drill and tap per installation

NOTE:
FOR MACHINE SCREW MOUNTING; REINFORCEMENT AND STRUCTURING ARE REQUIRED
TO WITHSTAND A 600 LB (272 KG) LOAD. CLEARANCE HOLES FOR FILLER PLATE TO BE SPOTTED
AT JOB SITE. CAUTION: "DO NOT ATTACH MOUNTING PLATE TO FILLER PLATE ONLY!"

