

INSTALLATION INSTRUCTIONS

1561, 1562, 1565, & 1566 HTC / HTR HISHEAR® CONCEALED MAGNETIC LOCK INTERGRATED & EXTERNAL ELECTRONIC

INTENDED FOR USE IN HERCULITE DOORS ONLY.

SECURITY DOOR CONTROLS • WWW.SDCSECURITY.COM

READ THESE INSTRUCTIONS AND STUDY THE DIMENSIONAL REFERECNES THOROUGHLY BEFORE BEGINNING THE INSTALLATION.

IMPORTANT NOTES:

Although electromagnetic shear locks provide the utmost in aesthetics for fail-safe applications, they are less forgiving than electric bolt locks and direct pull magnetic locks where alignment problems exist. Therefore, great care must be taken during preparation and installation of the frame, door hardware and the shear lock to attain proper alignment and ensure positive lock operation.

Unbalanced air conditioning (stack pressure) can hinder door alignment and must be corrected to help ensure positive locking.

Use only the highest quality door closer.

A positive stop should be used on double acting doors to help attain consistent dead center alignment. A Positive Centering Door Closer can also be used along with a positive stop to assist with center alignment.

The maximum locking strength of the 1561/1562 HiShear® lock is 2000 lbs. The maximum locking strength of the 1565/1566 HiShear® lock is 2700 lbs.

INSTALLATION:

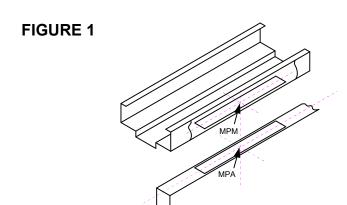
- 1. Make sure the clearance between the door top rail and frame header is 1/8". Make adjustments to the door as required.
- Adjust single acting door and door closer to ensure the door settles immediately and is fully closed and at rest against the stop. Account for mutes, smoke seals or weather stripping if installed on door.
- 3. For proper installation, verify that the labels on L-brackets of Magnet Lock & Armature are facing towards the leading edge of door.
- 4. Before determining the frame header centerline, double check that single acting doors are fully closed and at rest against the stop allowing for mutes, smoke or weather stripping where applicable. Double acting doors must be fully closed and at rest in the dead center of the frame.
- Mark the frame header per the dimensions given on page 3 for models 1561 & 1562 or page 5 for models 1565 & 1566.
- 6. Mark the door per the dimensions given on page 4 for models 1561 & 1562 or page 6 for models 1565 & 1566. The horizontal centerline of armature will be the same as the centerline of the door top rail thickness.
- 7. Prep the frame header & door based on markings.



- 8. An auto relock time delay is provided for all installations to delay relocking 1 to 6 seconds after initial door closure. This will help ensure the door is fully closed and at rest to obtain optimum alignment before the lock is energized. Refer to Figure 2A or 2B (page 7) according to model ordered for location of potentiometer.
 - With the power off, make all wire connections to a properly fused power source.
- 9. When installing models 1562 or 1566, use Figure 2B. Make the timer adjustment as required and test the TDA time delay prior to mounting in the frame. The TDA timer is field adjustable for 1 to 6 seconds and is factory set at approximately 3 seconds turn clockwise to increase and counter clockwise to decrease the delay time.
- 10. The 1561 & 1565 timer adjustment can be made after the lock is installed through the small hole in the face of the magnet. Using a small flat blade screwdriver, turn clockwise to increase time, counter clockwise to decrease time.
- 11. For proper operation, the armature must be adjusted upward as close as possible and parallel to the lock without interfering with opening and closing of the door. Proper operation cannot be expected with more than 1/8" clearance between the armature and the lock. If you find the clearance to be more than 1/8", adjust the armature screws on the HTC and or the bracket on the HTR as needed.
- 12. With the door closed, turn the lock power on. Check the lateral alignment. The armature and magnet lock should be flush with no air gaps between them.
- 13. If the clearance between the magnet lock and armature is sufficient, open and close the door a few times to ensure the lock will lock and unlock positively.
- 14. If positive locking cannot be attained due to misalignment, refer to Fig. 3 on page 7 for suggestions on how to adjust.
- 15. Repeat step 12 to verify operation after changes have been made
- 16. Cycle the door and lock several times after the completion of installation.

| MODEL# | LOCK DIMENSION | | | ARMATURE DIMENSION | | | HOLDING | POWER CONSUPTION | |
|--------|----------------|--------|---------|--------------------|--------|------|-----------|---------------------|-------|
| | L | W | D | L | W | D | FORCE | 12VDC | 24VDC |
| 1561 | 8" | 1-1/2" | 1-5/8" | 8-7/16" | 1-3/8" | 7/8" | 2000 lbs. | 650mA | 350mA |
| 1562 | | | 1-1/16" | | | | | | |
| 1565 | 10-7/16" | | 1-5/8" | 11" | | | 2700 lbs. | 800mA | 400mA |
| 1566 | | | 1-1/16" | | | | | | |





SECURITY DOOR CONTROLS • WWW.SDCSECURITY.COM

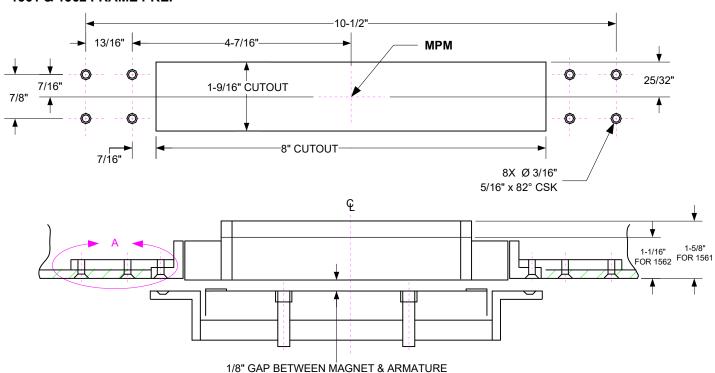
MIDPOINT IDENTIFICATION

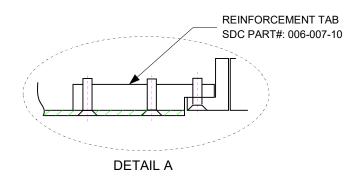
MPM – MIDPOINT MAGNET MPA – MIDPOINT ARMATURE

THE MOST IMPORTANT ELEMENTS FOR THE PROPER INSTALLATION OF THE HISHEAR® MAGNET ASSEMBLY ARE THAT THE MIDPOINT OF THE ARMATURE AND THE MIDPOINT OF THE MAGNET MUST LINE UP EXACTLY. ALL CENTERLINES OF THE ARMATURE MUST LINE UP WITH THE RESPECTIVE CENTERLINES OF THE MAGNET

1561 & 1562 FRAME PREP

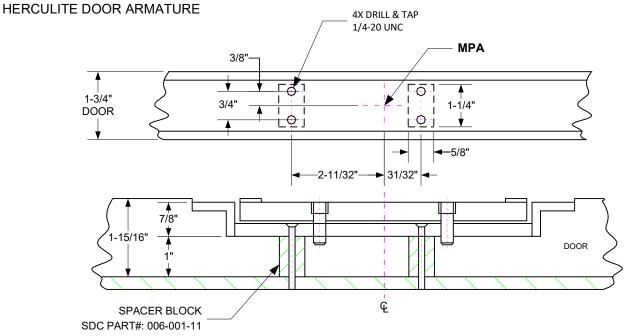
LEADING EDGE OF DOOR





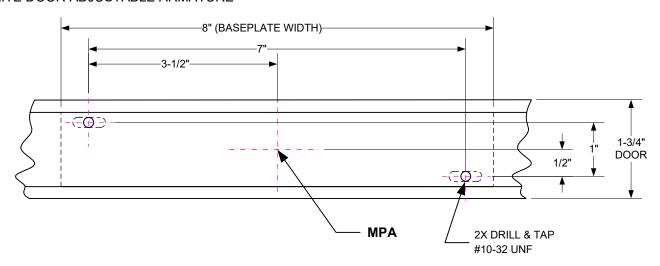


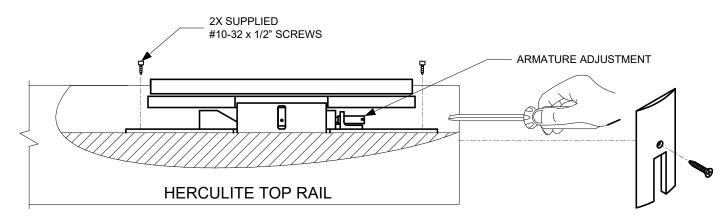
1561 & 1562 HTC DOOR PREP



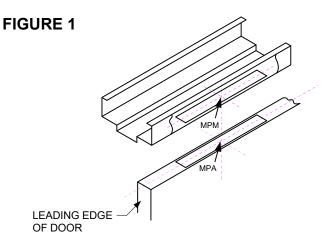
1561 & 1562 HTR DOOR PREP

HERCULITE DOOR ADJUSTABLE ARMATURE





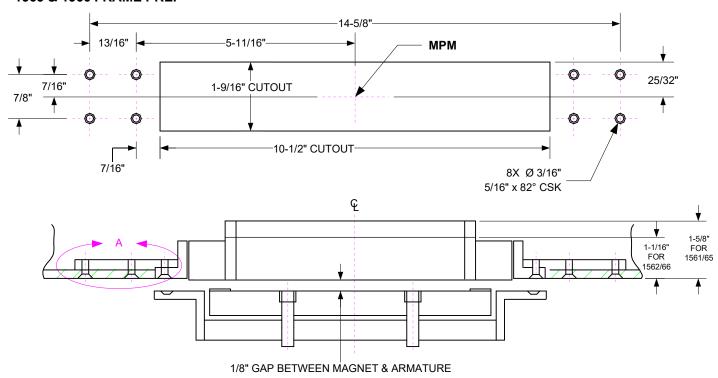
[t] 800.413.8783 **■** 805.494.0622 **■** E-mail: service@sdcsecurity.com **■** 801 Avenida Acaso, Camarillo, CA 93012 **■** PO Box 3670, Camarillo, CA 93011

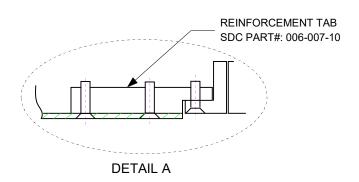


MIDPOINT IDENTIFICATION
MPM – MIDPOINT MAGNET
MPA – MIDPOINT ARMATURE

THE MOST IMPORTANT ELEMENTS FOR THE PROPER INSTALLATION OF THE HISHEAR® MAGNET ASSEMBLY ARE THAT THE MIDPOINT OF THE ARMATURE AND THE MIDPOINT OF THE MAGNET MUST LINE UP EXACTLY. ALL CENTERLINES OF THE ARMATURE MUST LINE UP WITH THE RESPECTIVE CENTERLINES OF THE MAGNET

1565 & 1566 FRAME PREP

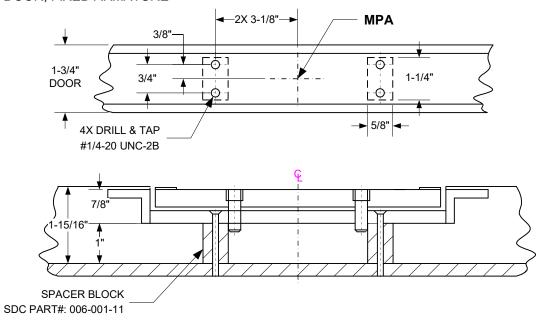






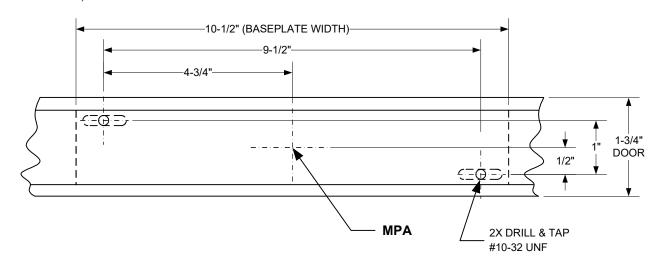
1565 & 1566 HTC DOOR PREP

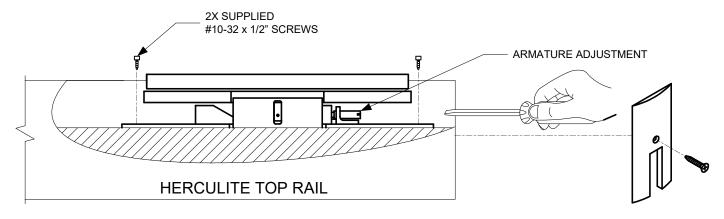
HERCULITE DOOR, FIXED ARMATURE



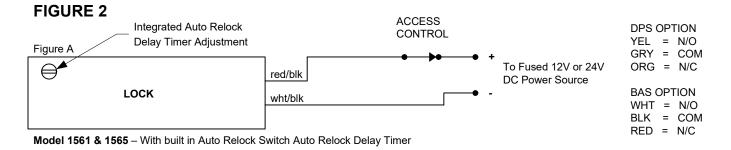
1565 & 1566 HTR DOOR PREP

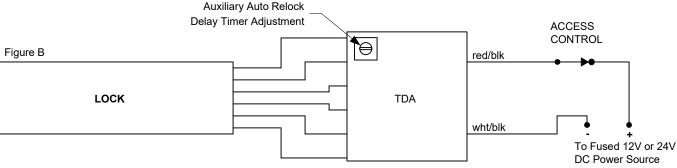
HERCULITE DOOR, ADJUSTABLE ARMATURE



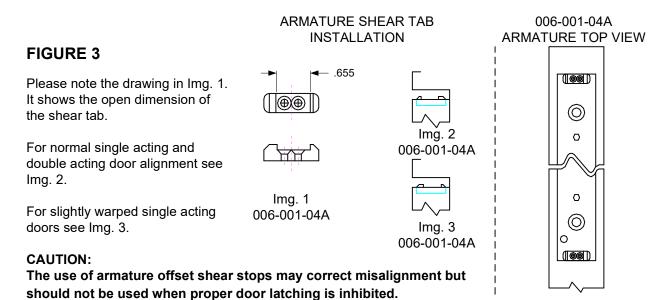








Model 1562 & 1566 - With built in Auto Relock Switch and Auxiliary Auto Relock Delay Timer Board



MAINTENANCE INSTRUCTIONS

The electromagnet and the armature should be handled carefully. Any damage to the surface such as paint, burrs, dirt and rust may hinder bonding of the surface and reduce holding power.

IF THE SURFACE PLATING BECOMES DAMAGED

- Do not touch lock face with your hands.
- 2. Use a soft clean dry cloth or abrasive cloth (i.e., Scotch-Brite by 3M) to clean the lock face. Do not use sand paper.
- 3. A rust inhibitor, such as M1 manufactured by Starret, or LPS3 manufactured by LPS Laboratories (available in most hardware stores) can then be applied to the lock face.
- 4. Apply a coat of rust inhibitor to the armature face also.