

Swing Door Service Installation Packet

Do Not Discard
Leave with Homeowner

Part No. 8785827

Swing Door Handle Set Installation Instructions

A Phillips screwdriver is required.

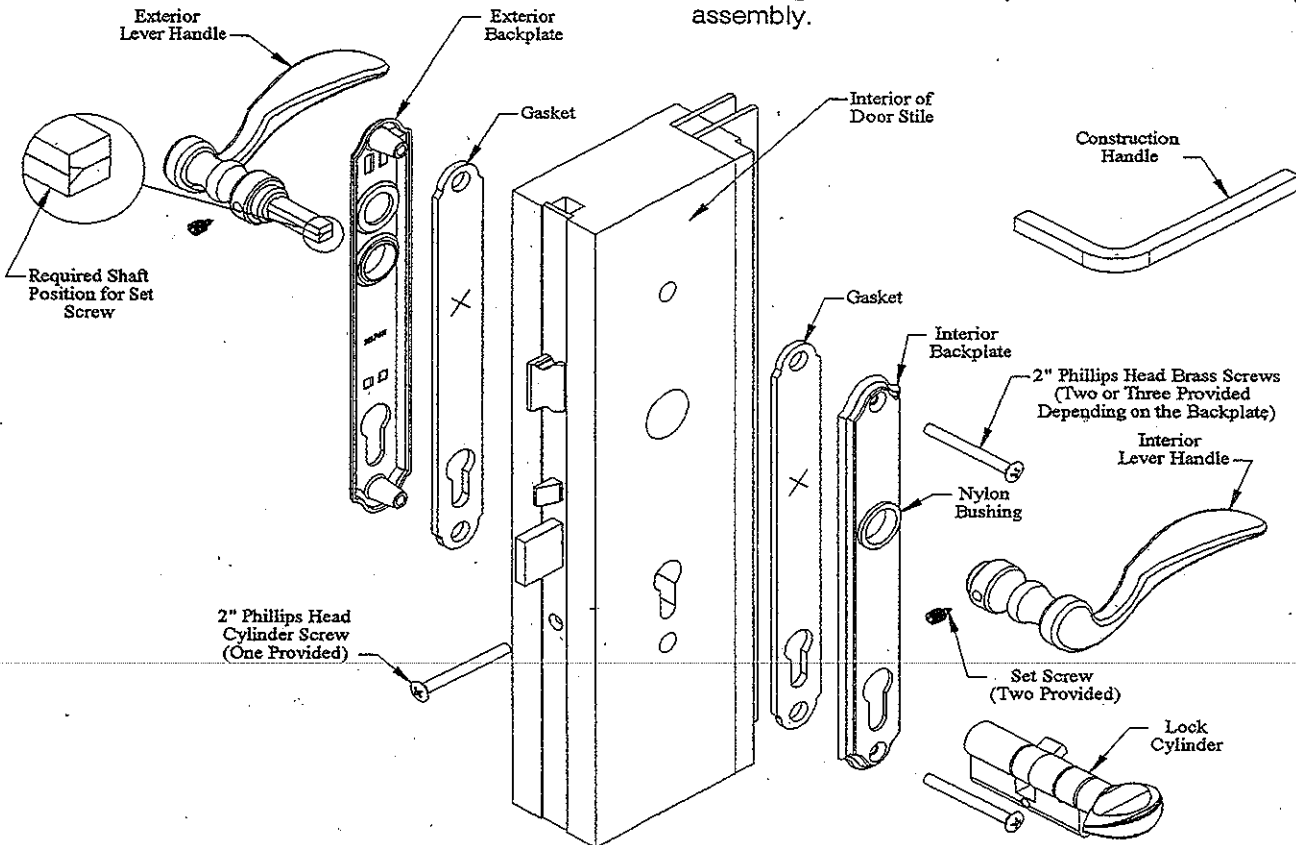
An Allen wrench for set screws is provided in the hardware package.

To prevent damage to the handle set while in construction phase, use the enclosed construction handle to operate the door. Lift to engage multipoint to close door. Push down to open the door.

Use water to clean and a soft cloth. Do not use brass cleaner or solvent bases cleaning agent as it will remove the protective coating.

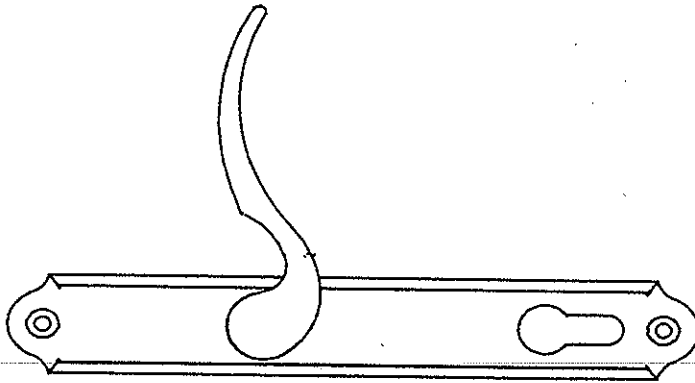
Note: Handles and backplates vary by style but application is the same.

1. Apply the backplate gasket to the inside of the exterior and interior backplates. Push gaskets firmly into place to ensure a tight seal. Attach interior and exterior backplates to the door and fasten loosely with the screws provided. Note: The screw heads must be on the interior side of the door.
2. Insert the two-piece handle shaft into one handle. Be sure to orient the shaft as shown below. Screw the set screw until flush with handle using the allen wrench provided. Insert the handle with shaft attached through the escutcheon plate and door gear handle hole until extending out opposite side of door.
3. Install remaining handle onto shaft, pressing tightly to the backplates. Tighten the handle set screw with allen wrench. Screw until flush with handle.
4. Insert the keyed cylinder from the interior side of the door until it is flush with the exterior backplate. Install the cylinder screw in the screw hole below the deadbolt in the edge of the door to secure in place.
5. Hand tighten the backplate screws to complete assembly.



Swing Door Handle Operation Instructions

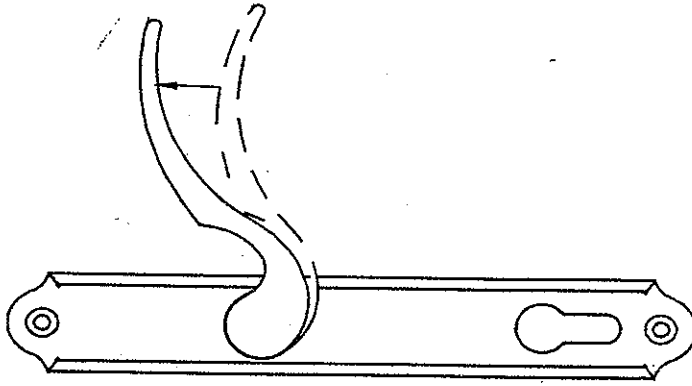
Handles and backplates vary in style.



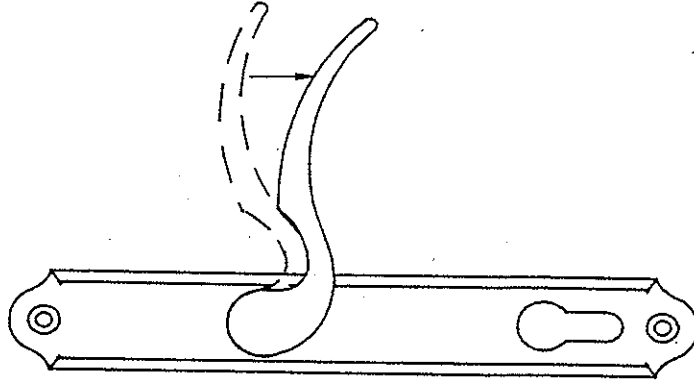
To lock automatic system, push door shut. Multipoint engages automatically.

To lock manual system, lift handle to engage multipoints prior to engaging deadbolt.

Use key or thumbturn to engage deadbolt.



If deadbolt will not fully engage, manually engage system by lifting handle prior to engaging deadbolt.



To open, disengage deadbolt with key or thumbturn, push handle down to stop and then open door.

Installation of Multipoint Swing Door Hardware

1. When the door is in the open position, the bevel on the latch should push the latch into the lockcase when you close the door. If you need to reverse the latch, see Hardware Adjustment Sheet.
2. Slide main gear (shown in drawing) into place aligning holes drilled in door face with cylinder, handle holes and lockcase to properly accommodate trim.
3. Install handle set per Swinging Patio Door Handle Set Installation Instructions.

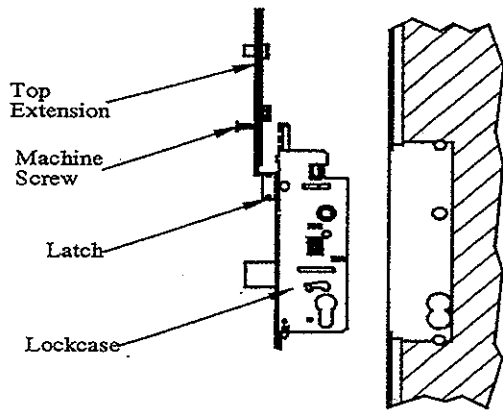


Diagram A

4. Remove machine screw in top of lockcase. Slide top extension into place and fasten to lockcase with the supplied machine screws to door edge. Use #6 screws. The #6 screws should be screwed in flush with the faceplate, but not overtightened. Test gear with the door in the open position. Engage system by lifting handle (note if multipoint system operates on the edge of the door) and extend deadbolt by turning thumbturn. If the system operates on the door edge and the deadbolt operates, the hardware system in the door is fully functional. If not, please see the Troubleshooting Guide.

PLEASE NOTE: MAIN GEAR AND EXTENSIONS SHOULD BE HAND-TIGHTENED ONLY. EXCESSIVE FORCE MAY CAUSE DRIVE RAIL TO BIND AND INHIBIT SYSTEM OPERATION.

HLS9000 Multipoint Hardware System Terminology

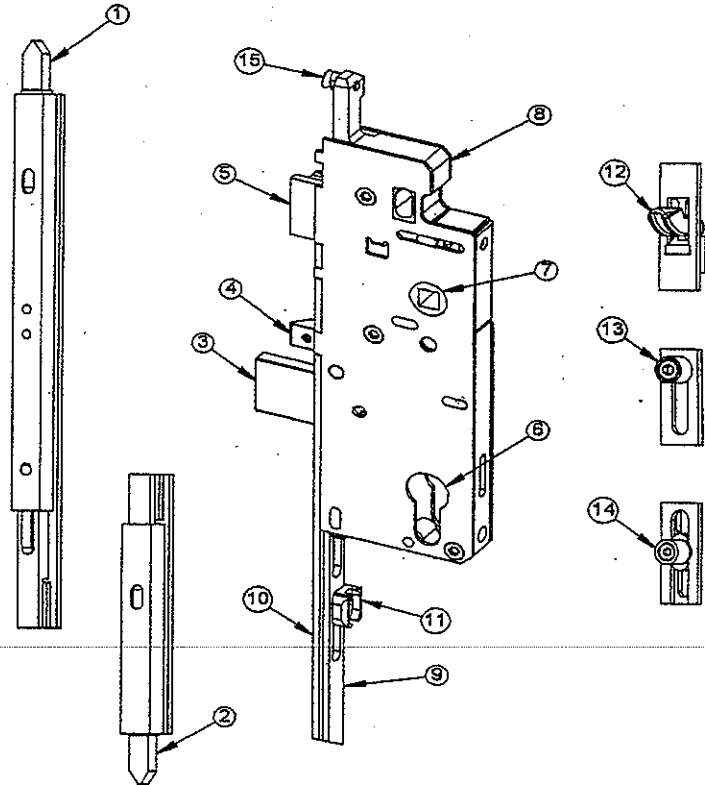
1. Trim Maintenance:
Use water to clean and a soft cloth. Do not use brass cleaner as it will remove the protective coating.
2. Profile Cylinder:
Cylinders are available in rekeyable version in Schlage C and Weiser 5 pin keyways. Key blanks are available at most hardware stores

TERMINOLOGY:

1. Top Shootbolt
2. Bottom Shootbolt
3. Deadbolt
4. Mishandling Device
5. Latch Bolt
6. Cylinder Hole
7. Handle Hole
8. Lockcase
9. Drive Rail
10. Faceplate
11. Screw Support
12. Tongue
13. Roller
14. Auto-Release Pin
15. Top Extension Phillips Machine Screw

Note:

All options are show for the sake of terminology. The gear system you have will NOT contain all of the components as shown in the diagram below.



Troubleshooting Guide

Multipoint Swing Door Hardware

Be certain door is square in frame before adjusting other hardware. With the door in the open position, engage system by lifting handle and extend deadbolt by turning thumb turn. If the system operates on the door edge and the deadbolt operates, the hardware system is fully functional.

1. SYSTEM WILL NOT OPERATE WHEN YOU LIFT THE HANDLE

Probable Cause: Improper installation of handle set.

Solution: Remove handle and reinstall. See Handle Set Installation Instructions.

2. SYSTEM OPERATES IN THE OPEN POSITION WHEN YOU LIFT THE HANDLE BUT NOT IN THE CLOSED POSITION WITH THE DOOR SHUT

Probable Cause: Relationship of door in the frame.

Solution: Check to make sure the door is square in the frame.

Probable Cause: If automatic version, the auto release pin may not be adjusted properly.

Solution: See Hardware Adjustment Sheet.

3. LOCKING POINTS WILL NOT ENGAGE WITH DOOR SHUT

Probable Cause: Deadbolt is not fully extending.

Solution: Clear away anything blocking travel of deadbolt (insulation, wood, etc).

4. DEADBOLT WILL NOT FULLY ENGAGE

Probable Cause: Locking points are not fully engaged. System design does not permit deadbolt operation unless locking points are fully engaged.

Solution: Check system again for binding problems. Confirm deadbolt extends fully into strike. Check to confirm locking points are correctly engaging strikes on the frame.

5. THUMBTURN OR KEY WILL NOT TURN

Probable Cause: Backplates may not be on straight.

Solution: Confirm that inside and outside holes line up with lockcase. Loosen backplate screws ½ turn.

6. INTERFERENCE OF STYLE WITH HANDLE

Probable Cause: Cladding or wood in the hole is interfering with shaft.

Solution: Check to see if machined holes line up with screw and handle holes. May need to file or drill hole slightly larger.

7. SET SCREWS WILL NOT GO INTO HANDLE COMPLETELY

Probable Cause: Shaft is not assembled properly.

Solution: Remove handle to see how shaft is assembled. See Handle Set Installation Instructions for proper assembly and position of shaft.

8. BOTTOM LOCKING POINT MOVES BUT TOP LOCKING POINT DOES NOT

Probable Cause: Top extension drive rail is not connected at the lockcase.

Solution: Remove screws used to attach top extension to the door and the machine screw that attaches it to the lockcase, and remove top extension. Place the end of the drive rail (the "L" shape) in the lockcase above the latchbolt, as you slide the top extension into the door. Fasten with a screw at the lockcase and the one up higher. Operate the gear to make sure it works. Then finish installing the rest of the screws.

9. IF DOOR HAS PLAY OR IS NOT SEALING CORRECTLY

Probable Cause: Unit if not adjusted properly.

Solution: Bend tab on strike.

10. KEY DOES NOT WORK IN CYLINDER

Probable Cause: Cylinder was rekeyed incorrectly.

Solution: Check with Builder or Installer to see if cylinder was rekeyed to match other doors in the house. If so, return to locksmith to rekey properly.

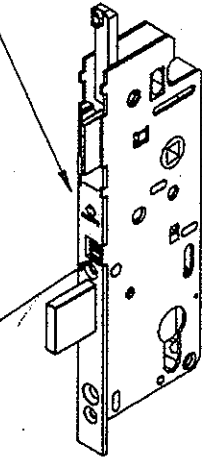
Hardware Modification Instruction Sheet

Shipping Clip for Mishandling Device

Removable Sticker



Shipping Clip



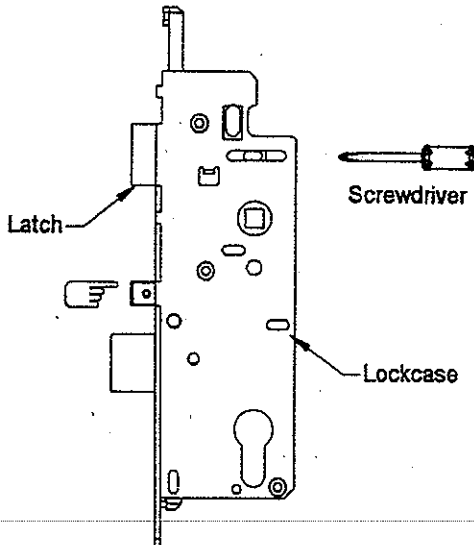
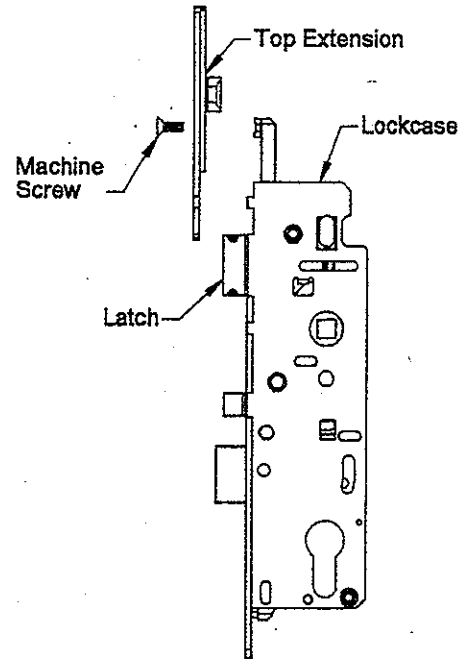
Reversing Mishandling Device in Field:

1. Remove sticker
2. Remove shipping clip
3. Make sure mishandling device is sloped the same as latch.
4. If not, pull out and spin 180° to the same direction.

Reversing Mishandling Device in Factory:

1. Remove shipping clip
2. Pull out mishandling device to spin to slope the same as latch.
3. Push mishandling device in and snap shipping clip back in.

Attachment

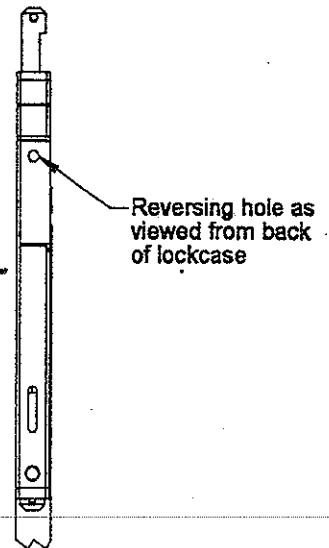


Reversing Latch (New Version)

1. Push small screwdriver or punch into reversing hole and push latch up until latch clears lockcase.
2. Rotate latch 180° and release back into lockcase.

Reversing Mishandling Device

1. Pull and rotate mishandling device 180° with hand and release back into lockcase.

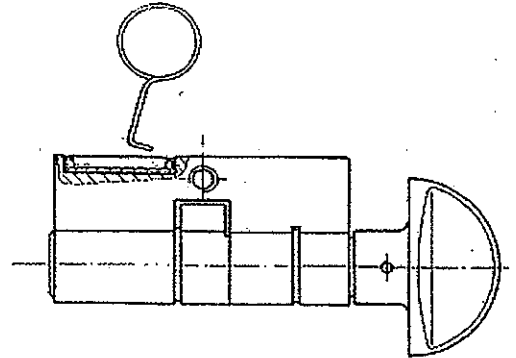


Rekeying of Cylinders

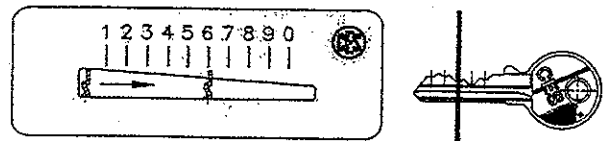
Rekeying should be done by a qualified locksmith

Available Keyways: Schlage (SC1) or Weiser

Key kits are available for both keyways.

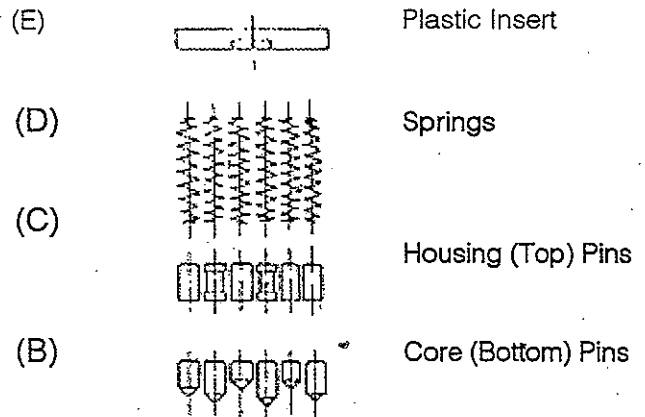


1. Remove the plastic insert located on the bottom of the cylinder. Tap out all pins and springs.
2. Determine pin size with keying gauge.

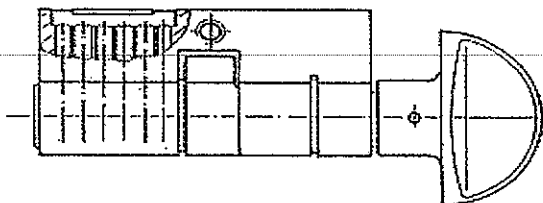


3. Assemble as follows:

- 1st: Core pins (B) - (see Step 2)
- 2nd: Housing and diabol pins (C)
Alternating between plain & dumbbell shaped pins
- 3rd: Springs (D)
- 4th: Plastic Insert (E) - snap in plastic insert to finish rekeying



Note: CES Cylinders are only keyed to 5-pin cylinders - innermost hole is left blank.



Installation Instructions

90 Degree Turn Cylinder

1. Loosen set screw (C) on knob using the allen wrench provided.
2. Remove knob (D) from body of cylinder (B).
3. The drive tab (J) must be aligned with the cylinder to install the cylinder into the lock mechanism. If the tab cannot be rotated to this position, push the pin (E) down with the ring wrench (F) included to disengage the stops and turn the cylinder shaft (B) until the drive tab (J) is aligned with the cylinder (G).
4. Holding in this position, insert the cylinder body into door so the tab on the cylinder is inside of the lock.
5. Rotate the shaft (B) that the thumb turn attaches to so that the top of the post moves toward the edge of the door or insert the key (A) into the cylinder and rotate so the top of the key moves towards the edge of the door (H). This will extend the deadbolt. If the post or key is rotated the wrong direction, it will rotate approximately 120 degrees and lock up where it cannot be rotated in either direction. If this happens, push the pin (E) down with the ring wrench (F) included to disengage the stops and turn the key (A) in the opposite direction until the deadbolt extends.
6. Fix knob (D) horizontally on cylinder shaft (B) with set screw hole (C) downwards.
7. Tighten set screw (C). Install cylinder screw.

TO REMOVE CYLINDER: Loosen and remove cylinder screw and repeat steps 1-4 above.

