



TerraSwing 61/62E

Architectural Terrace Door

Installation & Maintenance Manual

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Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

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GENERAL NOTES

BUILDING CODES

Glass and glazing codes governing the design and use of the product vary widely. OBE does not control the selection of product configurations, operating hardware or glazing material, and assumes no responsibility for these design considerations. It is the responsibility of the owner, specifier, architect, general contractor and installer to make these selections in strict conformance with all applicable codes.

MATERIAL HANDLING

Doors are finished products and should be protected against damage. The following precautions are recommended:

A. PROTECTION AND STORAGE

Material should be unloaded, stored and protected from environmental elements and to prevent abuse, damage and defacement by construction materials or contaminants such as, but not limited to lime, mortar, runoff from concrete and copper, careless handling of tools, weld spatter, acids, roofing tar and solvents.

Stack units vertically on sill edge to prevent warping and scratching. Use wood or plastic shims to allow drainage and air circulation. Remove all paper wrappings or interleavings that are or could become wet during storage. Store units inside, if possible, or cover with tarpaulins to allow air circulation and prevent damage from dust, corrosive fumes or other contaminants.

B. CHECK MATERIAL

Check all material on arrival for quantity and damage. Any visible damaged material must be noted on the freight bill at the time of receipt. If a claim is required, then the receiving party must process a claim with the freight company.

C. CLEANING MATERIAL

All plaster, mortar, cement, drywall and masonry cleaning compounds must be removed before being allowed to dry or permanent staining will occur. After removal, flush off metal surfaces with clear water. Never attempt to clean surfaces with abrasive cleaning compounds or steel wool. Use only mild soap, warm water and a soft sponge. Spot testing is recommended before any cleaning agent is used.

For cleaning of anodized surfaces, refer to AAMA 609.1 "Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum"

For cleaning of painted surfaces, refer to AAMA 610.79 "Voluntary Guide Specification for Cleaning and Maintenance of Painted Aluminum Extrusions and Curtain Wall Panels"

NOTE: If a protective coating is specified, remove it in areas that require sealant.

CAUTION: Doors are not to be used as ladders, temporary tables, scaffolds or scaffold supports.

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FIELD GLAZING – SHIPPED OPEN

The following are standard practice for Oldcastle BuildingEnvelope® (OBE):

- A. For all ship open door lites, OBE will provide glazing bead, gasket(s), and setting blocks, based on customer noted nominal glazing thickness and the assumption that the customer will glaze the door similar to OBE standard practices.
- B. Customer should also understand that OBE will not supply glazing sealants. Settings blocks will be shipped in bulk with sizes determined by standard in-house glazing details. All required adjustments to glazing blocks due to glazing variations are not the responsibility of OBE.
- C. Glazing beads are shipped approximately 1/32" long to accommodate manufacturing tolerances and may need to be cut down by the customer in the field.

CONSTRUCTION NOTES

The following practices are recommended for all door installations.

- A. REFERENCE SHOP DRAWINGS
Prior to commencing work, check shop drawings, project specifications, erector instructions and installation instructions to become thoroughly familiar with the product installation. The shop drawings take precedence and include specific details for the project. These are general installation instructions and cover most generic conditions.
- B. CHECK OPENINGS
Accuracy of openings should always be reviewed by installer prior to door installation. Make certain that construction, which will receive your material, is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with your work.
- C. BENCHMARK LAYOUT
All work should start from benchmarks and / or column centerlines as established by the architectural drawings and the general contractor.
- D. ALUMINUM ISOLATION
Aluminum components are to be isolated from contacting masonry and other incompatible materials with a heavy coat of zinc chromate, plastic isolators, or bituminous paint.
- E. PLUMB/LEVEL/TRUE
All materials are to be installed plumb, level and true (see diagram). Products are to be installed maintaining tolerances of 1/8" in 12'-0" of length.

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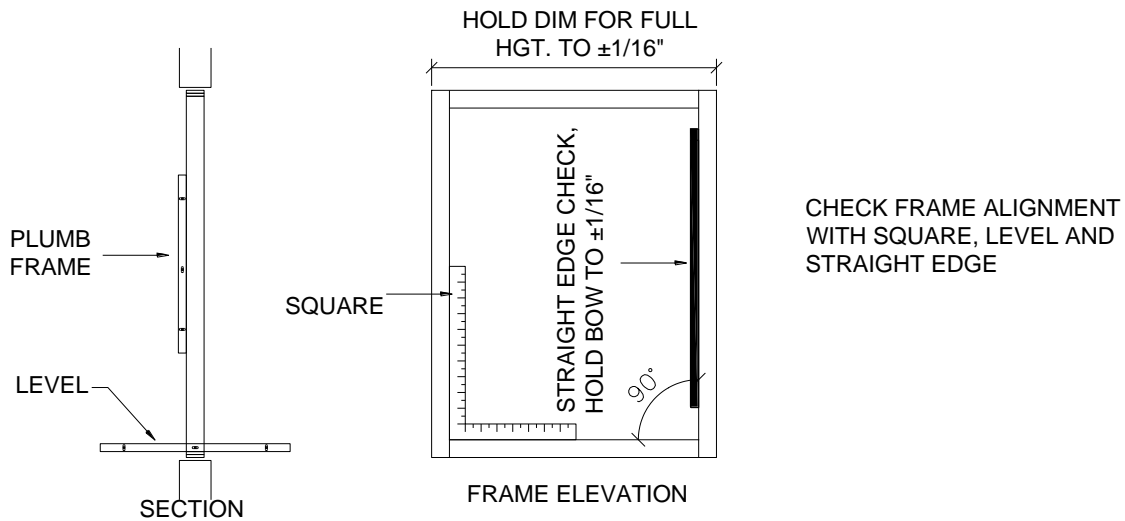


Figure 1

F. FASTENING

'Fastening' means any method of securing one part to another or to adjacent materials. These instructions are specifically created to illustrate various anchoring options into generic conditions. Refer to project conditions for specific installation needs. The installer is responsible for properly sizing anchors and determining anchor spacing. For these anchor requirements, refer to the shop drawings, or consult the fastener supplier. Anchor fasteners are not by OBE.

G. BLOCKING

All blocking and shims are to be of high strength plastic or non-corrosive materials not by OBE. Blocking must be of appropriate size and shape to support the frame at all anchorage locations. The blocking used must prevent bowing, racking, twisting or distorting of the door frames and accessories from the anchorage fasteners.

H. SEALANT

Sealants must be compatible with all materials they come in contact with, this includes adhesion and compatibility. Any sealant details shown, unless specifically called out to be by OBE, are by others. It is not OBE's position/responsibility to recommend sealant or caulking types and will not assume liability. Consult the sealant supplier for recommendations relative to compatibility, adhesion, priming, tooling, shelf life, and joint design. It is the sole responsibility of the customer to perform adhesion and compatibility testing as required by the sealant manufacturer chosen by the customer.

I. ACCESSORIES

Do not fasten drapery tracks, ceiling supports, or convactor covers to doors. The door must be free to contract and expand.

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DOOR INSTALLATION

- A. Establish the door reference line, inside surface of the door frame on the masonry, sill, head and jamb. Use architectural drawings and general contractor's reference lines to establish the sill line, then transfer to head and jamb. Establish by sketch or check on the shop drawings, the relations between head and sill, and between jambs.
- B. These instructions are specifically created to illustrate various anchoring options into generic conditions. If project specific conditions differ from these instructions, anchors used will depend on job conditions and the installer's preference. Refer to the fastener manufacturer recommendations for proper edge distance for masonry applications. Different parts of the door can utilize different anchorage techniques and components.
- C. The design of building components to which the doors are anchored must be adequate to resist the transfer of wind and dead loads from the door system.
- D. Isolate aluminum that directly contacts uncured masonry or incompatible materials with an isolating material. This includes steel.
- E. In no case should the attachment of the door or components be through or affect the thermal barrier. Do not drill penetrate or alter the thermal barrier in any way.
- F. All anchor screws must be sealed to prevent water from entering the building through the fastener hole.
- G. Seal all exposed perimeter joints (between structure and door perimeters) with a skinning type sealant. Refer to approved shop drawings for joint design, if applicable.
- H. All door leaves are custom fit to the frame. CLEARLY MARK/IDENTIFY EACH LEAF AND FRAME COMBINATION, IF LEAF IS REMOVED FOR ERECTION OR GLAZING. LEAF IS TO BE MATED BACK TO ORIGINAL FRAME IF REMOVED.
- I. Upon completion of the door installation, all leaves must be checked for proper alignment and operation. It may be necessary to adjust the hardware to ensure proper sealing and locking. All hardware must be cleaned and lubricated, as necessary, to provide smooth operation.
- J. Use appropriate shim in frames at perimeter anchor locations. Shimming material not by OBE

LEAF INSPECTION OR REINSTALLATION

- A. Upon completion of the door installation, all leaves must be checked for proper alignment and operation. All hardware must be cleaned and lubricated as necessary to provide smooth operation.
- B. If the leaves are removed, care must be taken to ensure the leaves are reinstalled into the same frames they were removed from. It may be necessary to adjust the hinges, keepers, limit stops, snubbers and friction arms to ensure proper sealing and locking. See hardware adjustment section of this manual.

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RECOMMENDED ANCHOR/BLOCKING LOCATIONS

The following diagrams illustrate the recommended anchor locations. Essentially an anchor is required at every lock and hinge location.

Using a transit or string line determine the high point of the rough opening sill and shim/block the remainder of the opening to match. Support needs to be provided for the door threshold and bottom of frame jambs, particularly the hinge side. The weight of the door leaf is transferred through the butt hinges to the hinge jamb and to the floor. The hinge jamb frame must either sit directly on the floor or on a shim between the floor and frame.

ANCHOR LOCATIONS AND QUANTITIES SHOWN ARE MEANT AS GENERAL GUIDELINES TO SATISFY WIND LOAD AND OPERATIONAL CONSIDERATIONS. HOWEVER, EACH SPECIFIC JOB SHOULD BE INDEPENDENTLY ANALYZED TO DETERMINE THE EXACT ANCHOR SIZING, LOCATIONS AND QUANTITIES. CONSULT A STRUCTURAL ENGINEER FOR ANCHOR DESIGN, LOCATION AND QUANTITY.

HEAD AND SILL ANCHORS MAY NOT BE NECESSARY FOR ALL INSTALLATIONS.

- DEAD LOAD SHIMS
- ▽ ANCHOR LOCATIONS
- LOCK LOCATIONS
- ▭ BUTT HINGE LOCATIONS

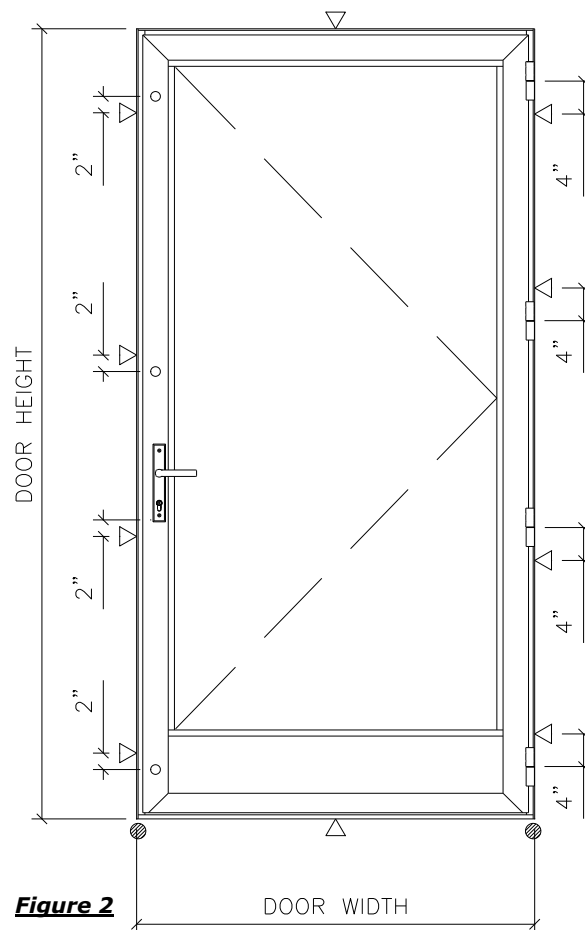


Figure 2

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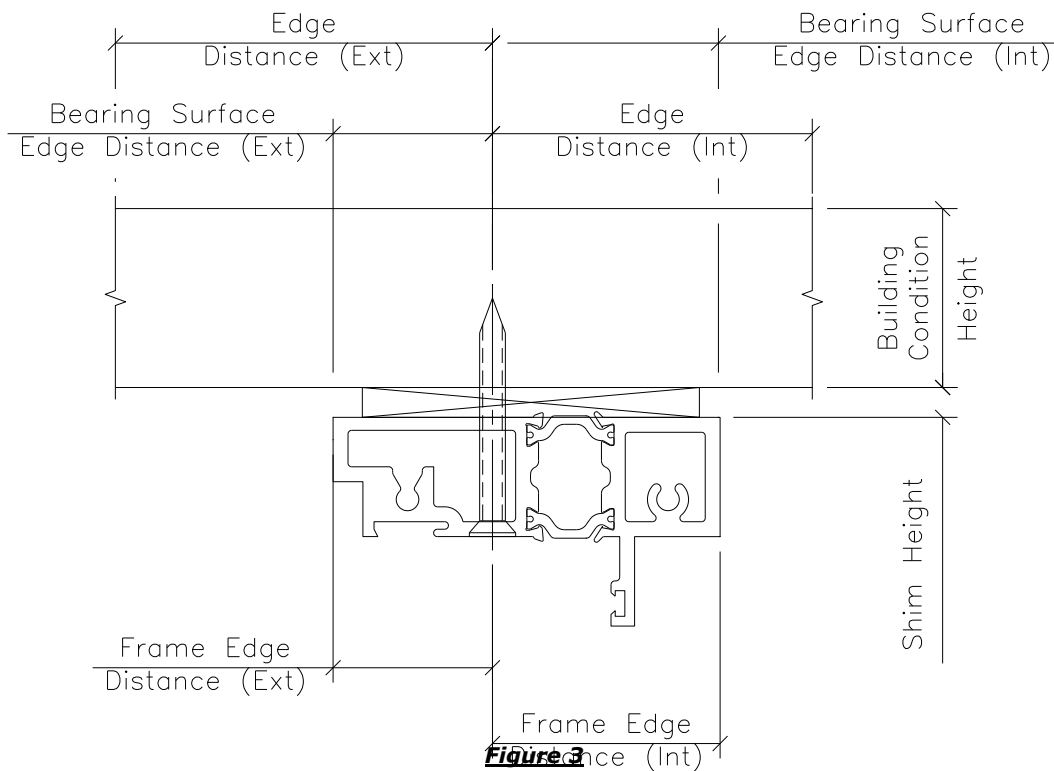
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PERIMETER ANCHORAGE

- A. From the approved shop drawings, determine the size, type, and quality of perimeter fasteners required. All perimeter fasteners not by OBE should be purchased prior to arriving at the job site.

Due to varying opening conditions, door configurations, design pressures, and methods of anchorage, perimeter fasteners are not specified in these instructions. For perimeter anchor type and spacing, refer to approved shop drawings or consult the project design professional. The design professional should analyze the anchorage system and consider the following information.

1. Frame dimension and configuration of the as-installed door.
2. Material properties of the door frame.
3. Allowable tension, shear, and bending properties of the perimeter fastener.
4. Design pressure
5. Details of the surrounding condition for the head, sill, and jambs.
6. Relative building movements and expected thermal movement of the door system.



- B. Perimeter anchors should never penetrate a tank or tubular shape at a door sill. Any penetration of the frame must be visible for sealing purposes.
- C. Blocking must be of sufficient size and shape to support the frame at all anchorage locations. The blocking must prevent the anchorage fasteners from bowing, racking, twisting, or distorting the door frames and accessories in any manner. Excessive shim heights could increase the prying tension and/or bending forces on the perimeter fastener. Refer to the approved shop drawings and/or design professional for project specific applications.

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GENERAL PROCEDURE FOR THE INSTALLATION OF DOOR UNITS IN ROUGH OPENINGS

- A. See *RECOMMENDED ANCHOR/BLOCKING LOCATIONS* for recommended anchor locations and drill all necessary holes. Also, verify the proper anchor fastener and locations per the structural calculations. NOTE: Anchor sizing, selection, and structural calculations not by OBE, unless in OBE's contract.
- B. Clean and prepare the door frame and rough opening per the sealant manufacturer recommendations. The installer is responsible for sealant joint design, material adhesion, compatibility, and other considerations. Consult the sealant manufacturer for recommendations.
- C. Insert the door into the opening. Be sure to properly set and fully shim/block the door, so that the threshold is level and that the alignment meets the requirements from the general notes. NOTE: Doors are fabricated to allow, at minimum, 1/4" shim around the exterior of the frames at the head and jambs. The threshold is designed to sit directly onto a level floor. Shimming material not by OBE.

HINGE JAMB ANCHORAGE/FASTENING

- A. After verifying the threshold is level and the hinge jamb is fully supported on either the floor or shims, shim the hinge jamb. All hinge/snubber points need to be shimmed/blocked to plumb in the rough opening. Shimming/blocking at the top and bottom of the lock jamb may be required to provide pressure to keep the hinge jamb in place. Support the weight of the leaf to prevent frame movement/distorting and open the door leaf. Install perimeter hinge anchors as shown.
- B. Pre-drill pilot hole into building condition as required per structural calculations and fastener type, if required.
- C. Fill anchor holes with compatible silicone sealant prior to installation of anchor fastener.
- D. Verify door frame is plumb, level, square and not racked or twisted prior to and after snugging fasteners down securing the hinge jamb to the building condition.

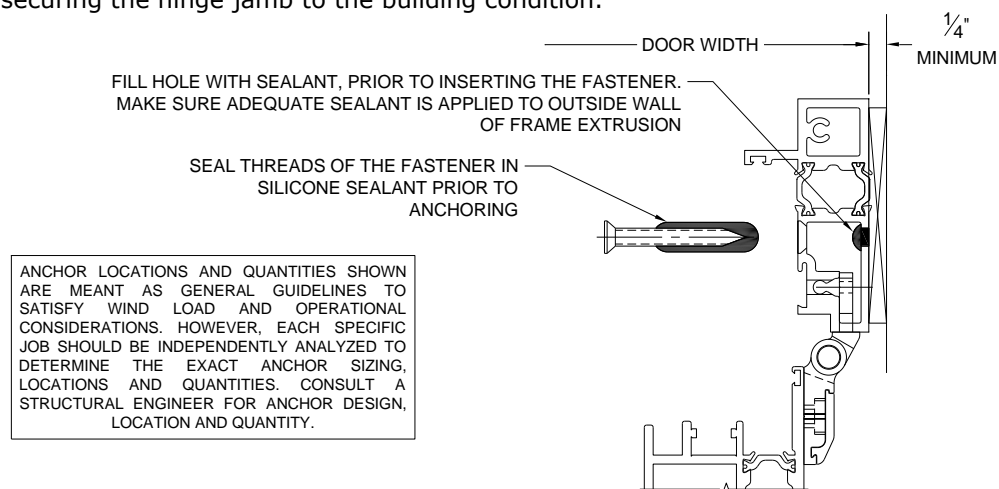


Figure 4

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LOCK JAMB ANCHORAGE/FASTENING

- A. After fully anchoring the hinge jamb to the building condition, shim/block the lock jamb. All lock points need to be shimmed/blocked to plumb the lock jamb. A properly shimmed door will have an even $5/32$ " gap along the entire length of the hinge and lock jambs.
- B. Pre-drill pilot hole into building condition as required per structural calculations and fastener type, if required.
- C. Fill anchor holes with compatible silicone sealant prior to installation of anchor fastener.
- D. Verify door frame is plumb, level, square and not racked or twisted prior to and after snugging fasteners down securing the hinge jamb to the building condition.
- E. Open and close the door several times to ensure smooth operation, adjust anchorage as required.

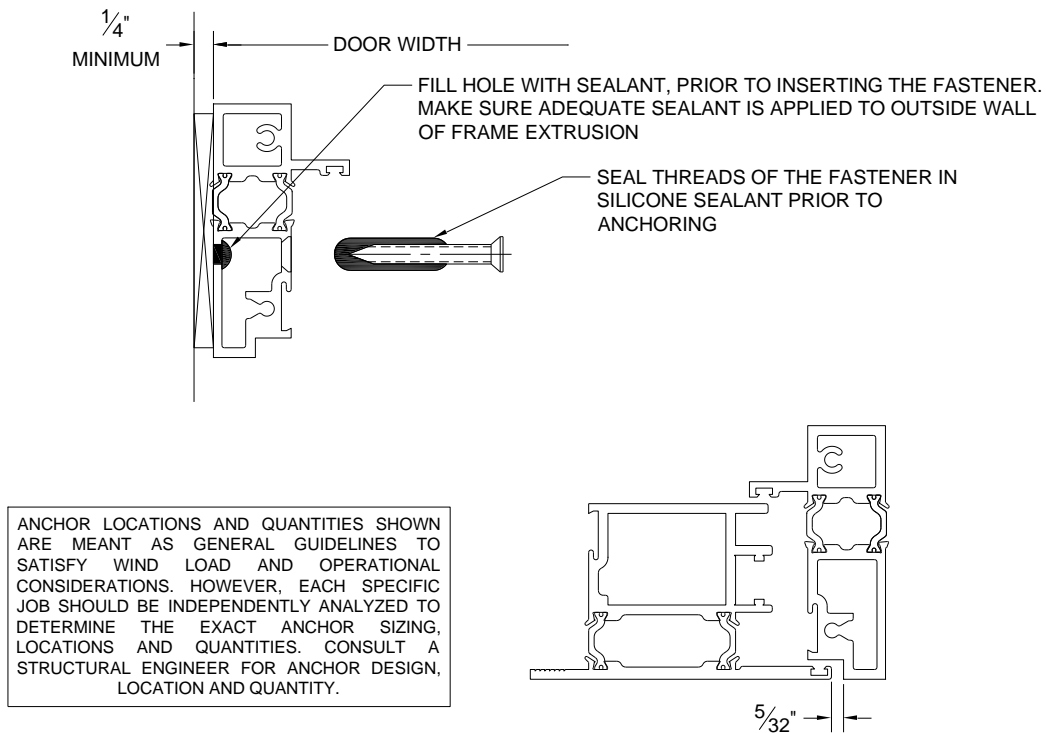


Figure 5

HEAD & SILL ANCHORAGE/FASTENING

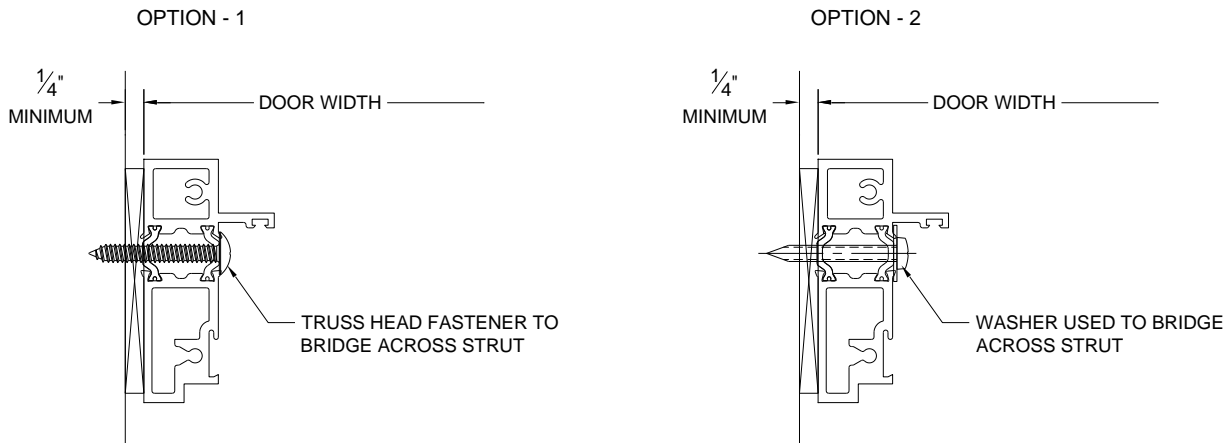
Head and sill anchorage not typical, consult shop drawings and structural calculations for locations and fastener type, if required.

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ALTERNATE ANCHORAGE/FASTENING

- A. If anchoring of the door must occur in the strutted portion of the frame the fastener head must bridge across the strip and bare against the aluminum members on both sides, see below.



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Figure 6

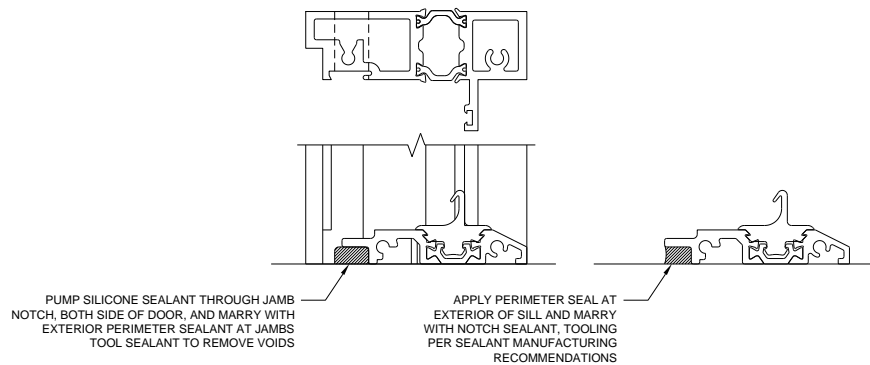
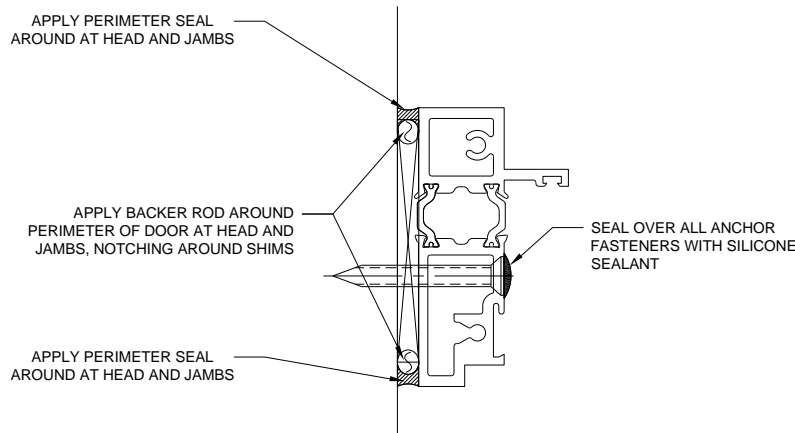
- B. Following all steps required for **HINGE JAMB ANCHORAGE/FASTENING**, **LOCK JAMB ANCHORAGE/FASTENING**, or **HEAD & SILL ANCHORAGE/FASTENING** above.

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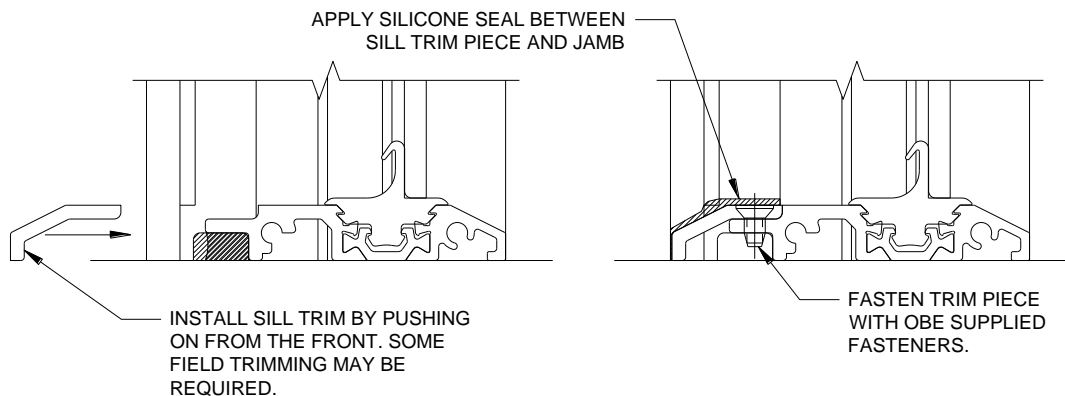
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SEALING

- A. Once anchored and the door operates smoothly, apply a silicone seal over all anchor fasteners and seal around the perimeter of the door as shown below. The installer is responsible for sealant joint design, material adhesion, compatibility, and other considerations. Consult the sealant manufacturer for recommendations. (Backer rod and sealant not by OBE).



- B. Install and seal exterior trim piece at sill using fasteners provided by OBE.



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GLAZING INSTRUCTIONS

Architect/Contractor/Dealer note:

The following glazing information is being provided by OBE as a service to help facilitate field glazing and de-glazing.

Sealants must be compatible with all the materials they contact, including other sealant surfaces. Consult the sealant suppliers for recommendations relative to compatibility, adhesion, cleaning, priming, tooling, and shelf life.

The following basic glazing concepts must be reviewed and incorporated.

- A. The "Glass Association of North America" (GANA) current "Glazing Manual" and "Sealing Manual" publications for recommended handling, preparation, shimming, cross blocking, glazing procedures, sealant requirements, ect.
- B. The glass manufacturer's data, glazing recommendations, and special requirements.
- C. The glazing specification for the project.
- D. The sealant and glazing material supplier's application requirement
- E. The door unit is erected plumb and square.
- F. The glass unit properly cross blocked. (Suggested blocking shown and in the GANA Manual).
- G. The proper setting blocks and locations are used (Normally at 1/4 points unless otherwise noted).
- H. Spandrel glass must not be viewed as vision glass in areas without back-up scattered pinholes and some non-uniformity of coating thickness or coverage may be evident. Spandrel glass is designed to be glazed against a dark background and is not recommended for use in transoms, partitions, or other areas where a dark background is not available.

If additional glazing information is required, please contact OBE.

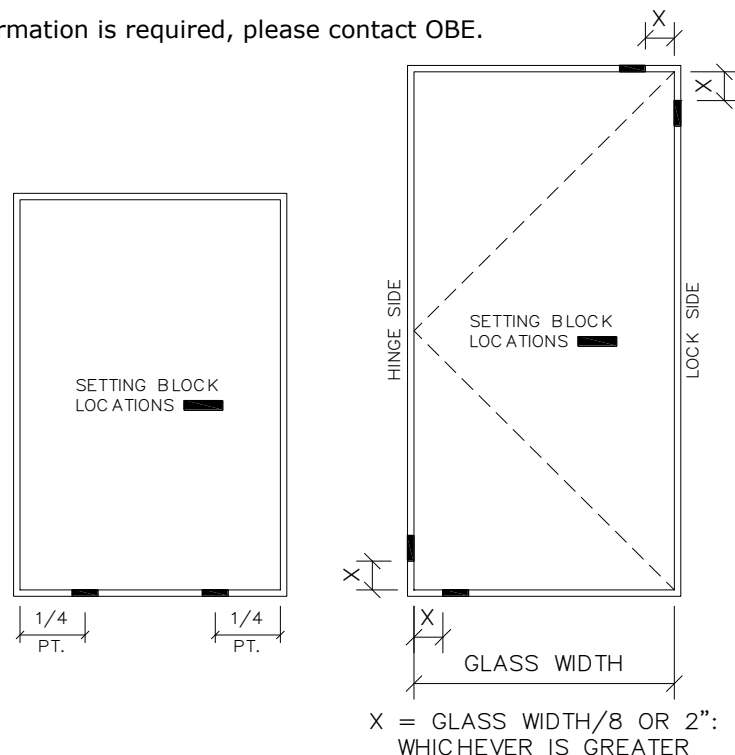


Figure 10

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DE-GLAZING INSTRUCTIONS

Cut the Silicone enough to remove the glass, remove the glazing wedge, followed by the glazing bead/glass stops and take out the glass. Clean out the remaining silicone. DO NOT USE ABRASIVE CLEANING AGENTS. Keep the old glazing beads, wedge gaskets and setting blocks.

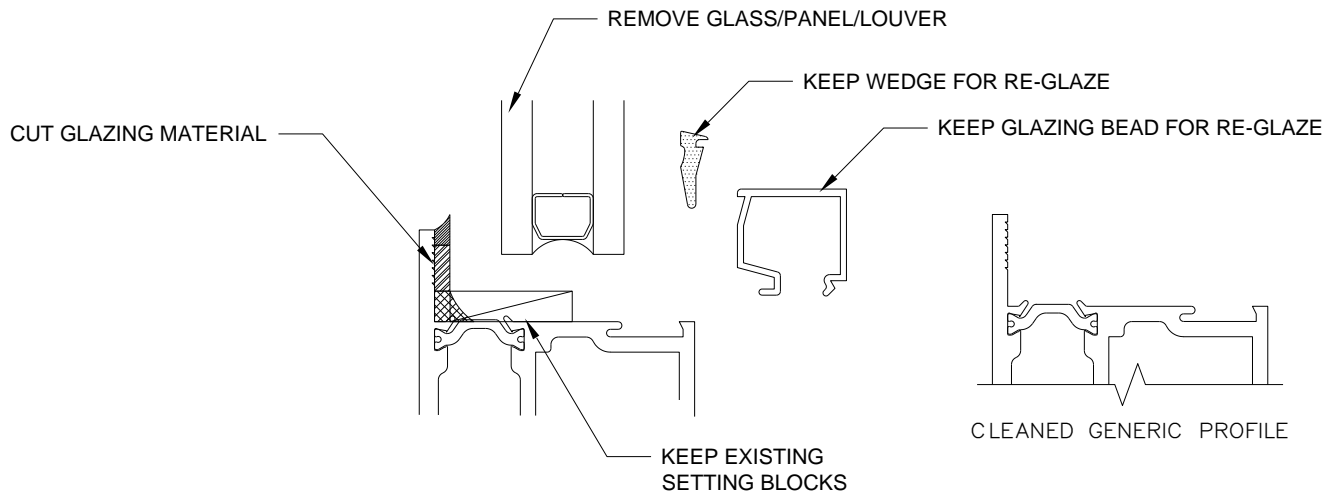


Figure 11

FIELD GLAZING INSTRUCTIONS

- A. Clean glazing surface. Contact sealant manufacturers for specific cleaning requirements and instructions, such as priming the surface. Consult with the manufacturer for proper structural silicone compound. Apply glazing tape.

Note: Glazing tape must be applied continuous without interruption between the glazing leg and the glass.

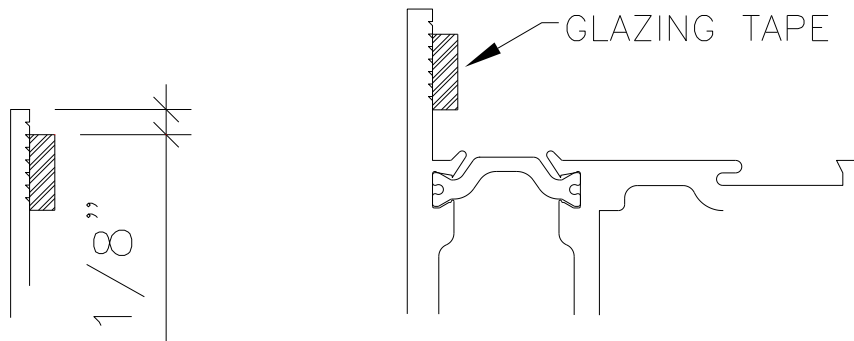


Figure 12

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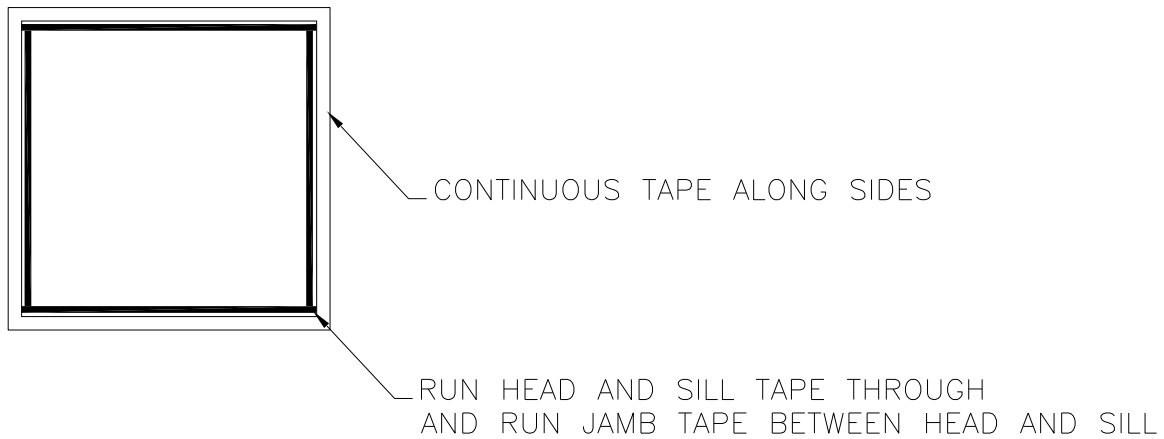


Figure 13

- B. Insert setting blocks per the GANA (See first page of Glazing Instructions) and secure in place with silicone sealant on the back of the blocks. Apply silicone toe bead 6" up from each side of corners.

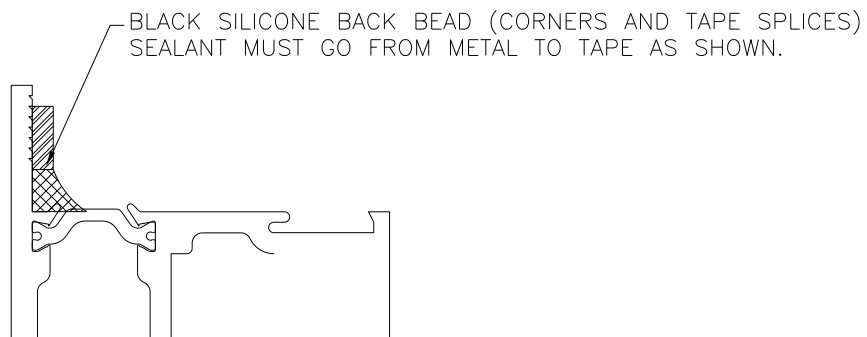


Figure 14

- C. Clean glazing surface of the glass. Remove paper from the glazing tape. Set the glass onto the setting blocks and press glass against the glazing tape and silicone.

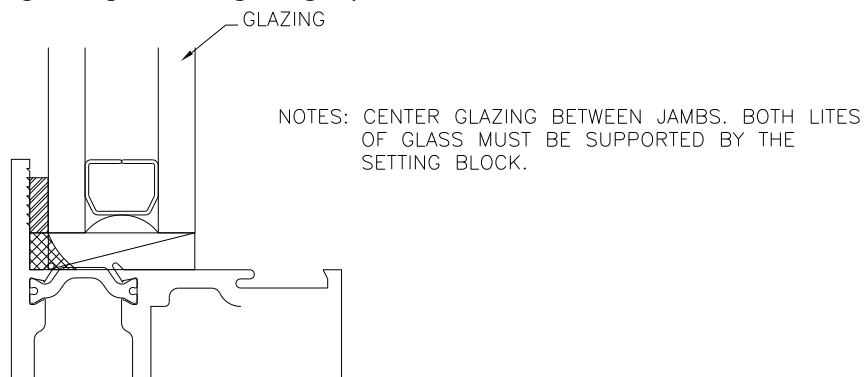


Figure 15

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- D. Apply silicone sealant at each corner and apply glazing stop. Square cut interior glazing wedge 1" longer than space required. Install initially at both end and center of lite (See Detail "A"). Finish wedge installation working from the center toward the ends (See Detail "B").

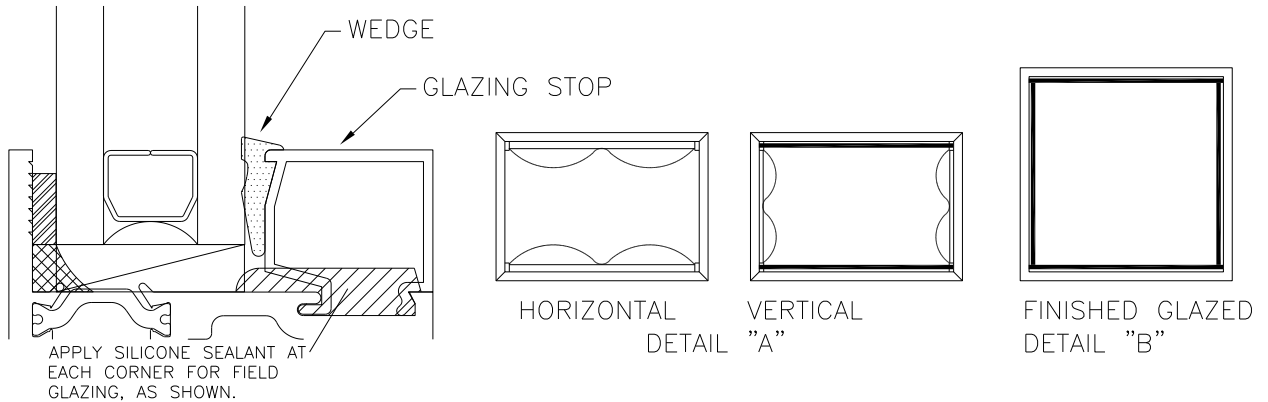


Figure 16

- E. Clean and prime per silicone manufacturers instruction and apply continuous exterior silicone cap bead.

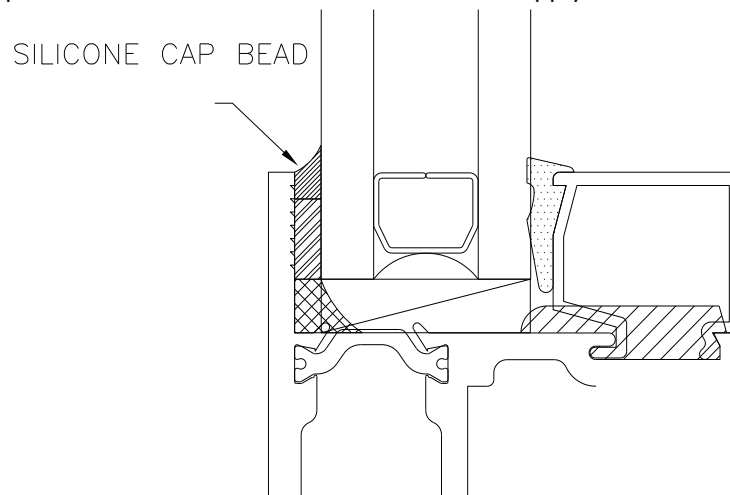


Figure 17

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HARDWARE CARE AND MAINTENANCE

GENERAL CARE

- In general, the hardware should not require any maintenance. The parts are internally lubricated and will function correctly, unless disassembled.
- Lubrication, however, may be required on butt hinges, friction devices, locking points, and strikes to ensure smooth operation.
- Hardware may be cleaned periodically with warm soapy water or isopropyl alcohol and a cloth rag. (DO NOT USE SOLVENT BASED OR ABRASIVE CLEANERS SUCH AS BRASS CLEANER, AS IT WILL REMOVE THE PROTECTIVE COATING AND FINISH)
- Hardware comes pre-adjusted from OBE. However, if field adjustments are required, please consult the following pages.
- The handle set is typically shipped loose to prevent damage and must be installed after the construction phase has been completed, not by OBE.
 - Use the construction handle during the construction phase to operate the door. Lift the handle up to engage the multipoint system and push down to open the door.

LOCK OPERATION

All locking hardware works in a similar manner to that shown below.

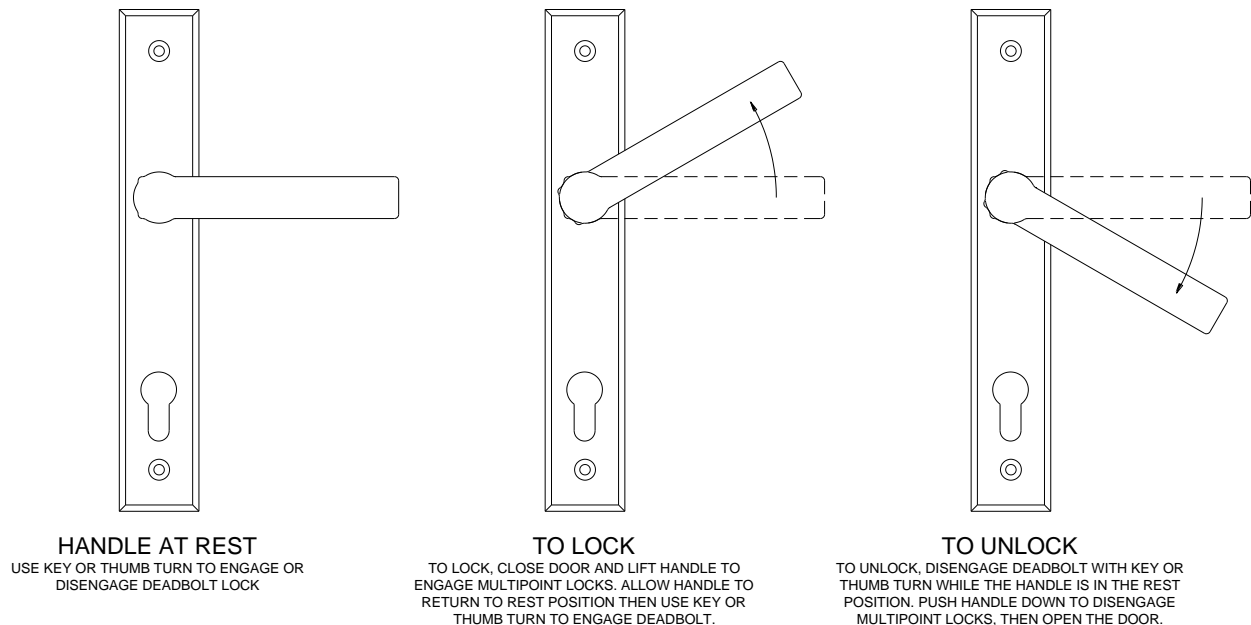


Figure 18

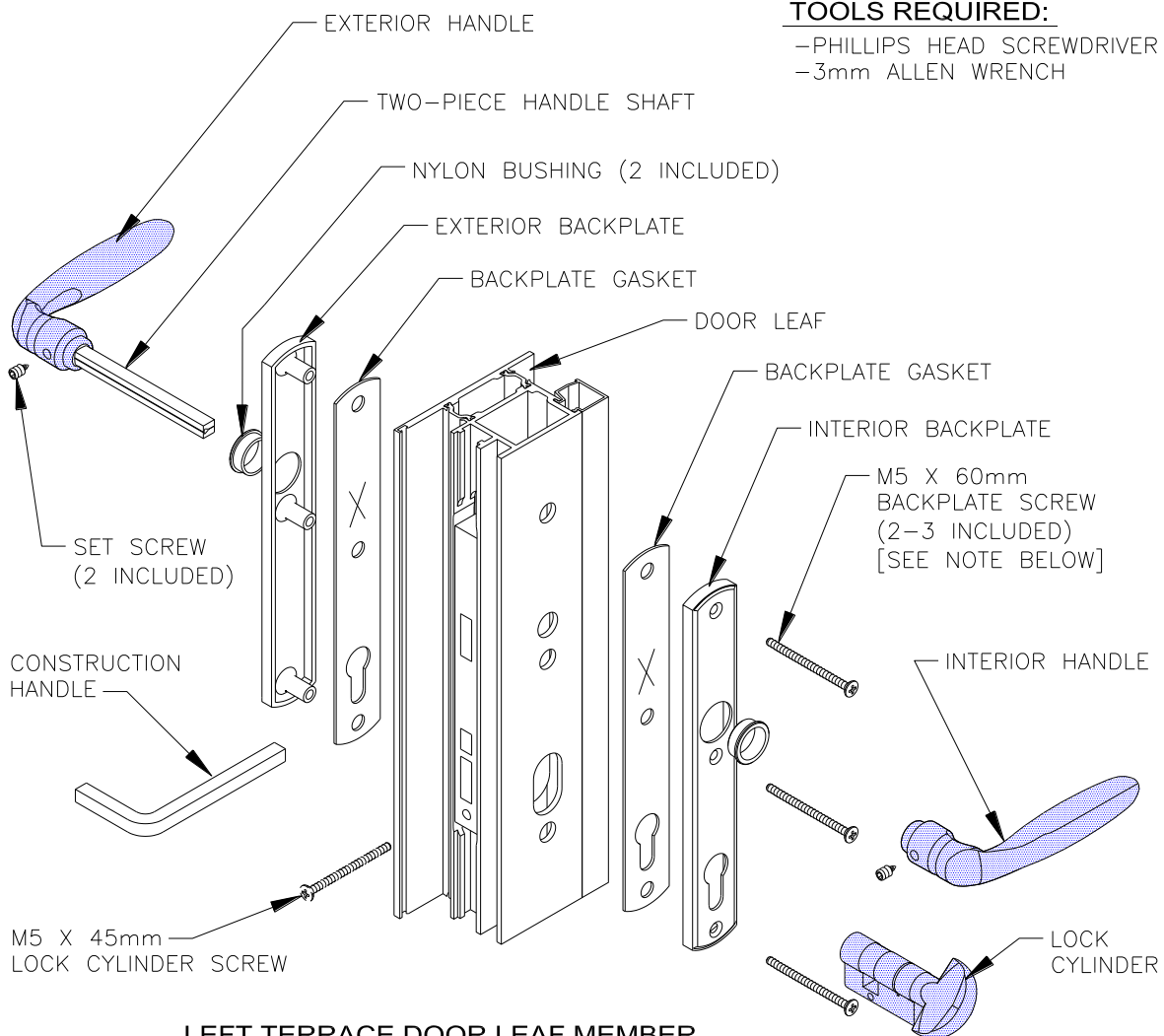
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HANDLE SET INSTALLATION

NOTES:

- If the door leaf has the backplates and lock cylinder installed, please start the installation process with Step 4.
- Some handle backplate types require the use of only two screws.
- In order to protect the handle during construction, use the enclosed construction handle to operate the door.



TOOLS REQUIRED:

- PHILLIPS HEAD SCREWDRIVER
- 3mm ALLEN WRENCH

**LEFT TERRACE DOOR LEAF MEMBER
VIEWED UNASSEMBLED FROM TOP INTERIOR**

Figure 19

1. Locate and familiarize yourself with the handle parts shown on in *Figure 19*.
2. Prepare escutcheon plates.
 - a. Apply a backplate gasket to the inside of the exterior backplate, making sure that the gasket is pushed firmly into place, in order to ensure a tight seal.
 - b. Align the other backplate gasket with the interior backplate.

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- c. Insert the nylon bushings into the interior and exterior backplates as shown.

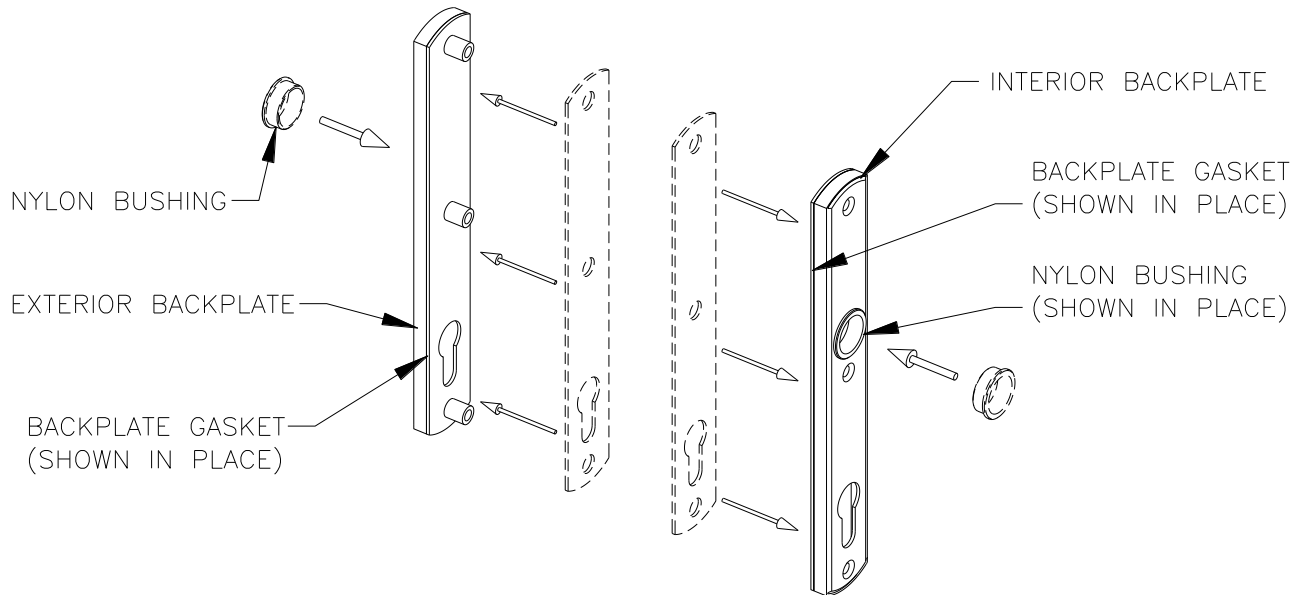


Figure 20

3. Apply the interior and exterior backplates to the door leaf, fastening them loosely with the three screws provided using the phillips head screwdriver.

Note: that the screw heads must be on the interior side of the door leaf.

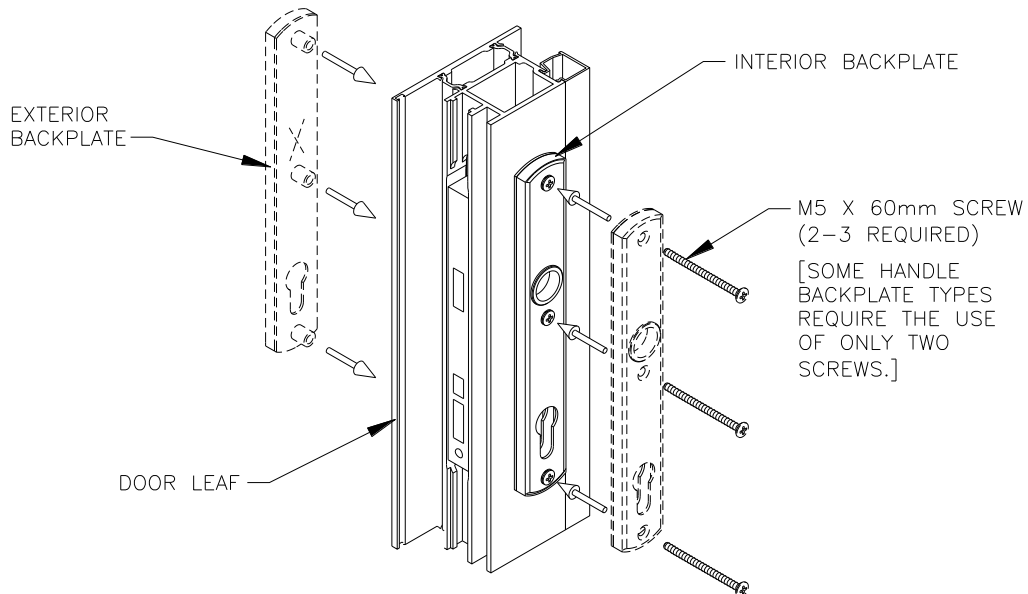


Figure 21

4. Seal one side of the two-piece handle shaft with silicone sealant as shown.

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

PRIOR TO APPLYING SEALANT, ORIENTATE THE GROOVES IN THE TWO-PIECE HANDLE SHAFT AS SHOWN

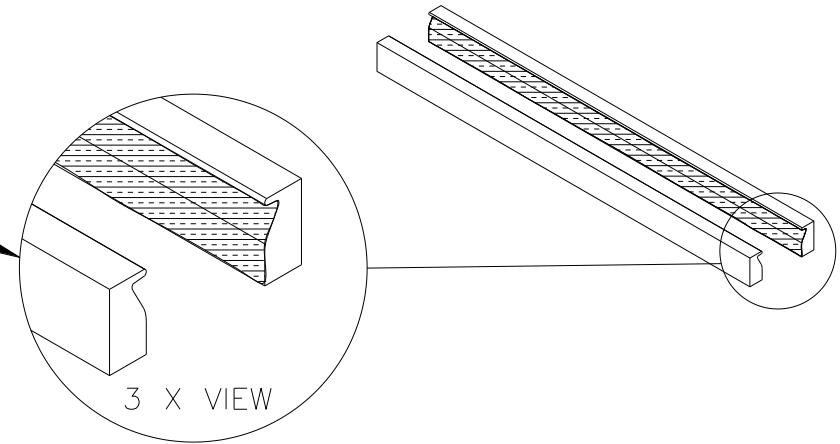


Figure 22

5. Insert the two-piece handle shaft into the interior handle. Be sure to orientate the shaft into the handle as shown below. Then, screw the set screw in until it is flush with the handle (securely attached to the two-piece handle shaft) using the 3mm allen wrench.

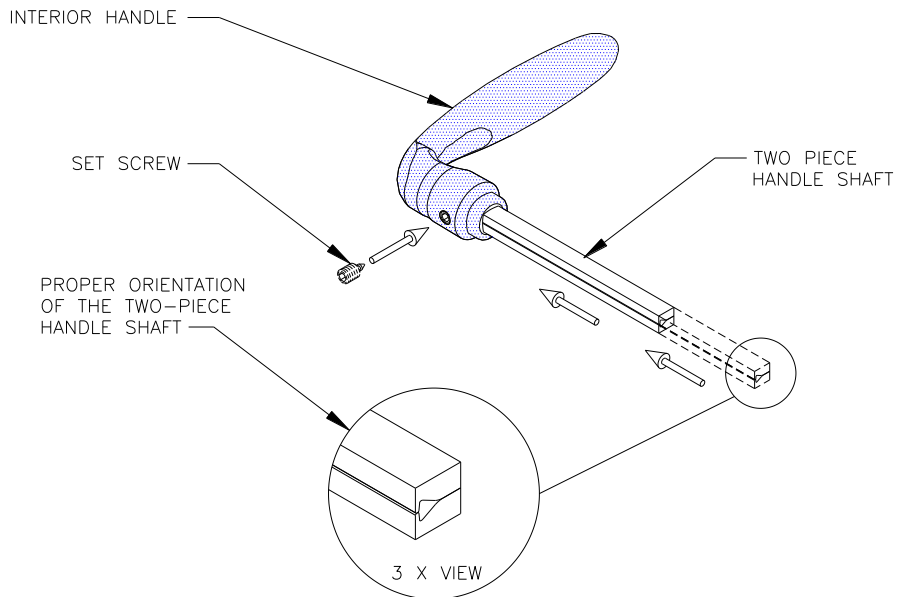


Figure 23

6. Install the interior handle and two-piece handle shaft by pushing it through the latch hole as shown.

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

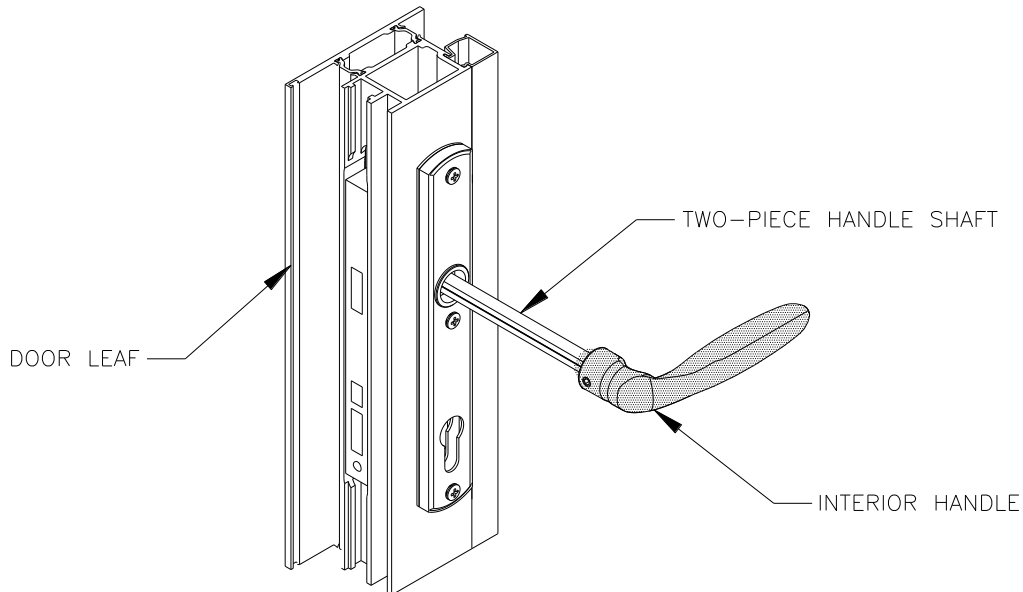


Figure 24

7. Install the exterior handle onto the two-piece shaft. At this point, ensure that the exterior and interior handles are pressed tight to the backplates. Then, screw the exterior handle set screw in until it is flush with the handle (securely attached to the two-piece handle shaft) using the 3mm allen wrench.

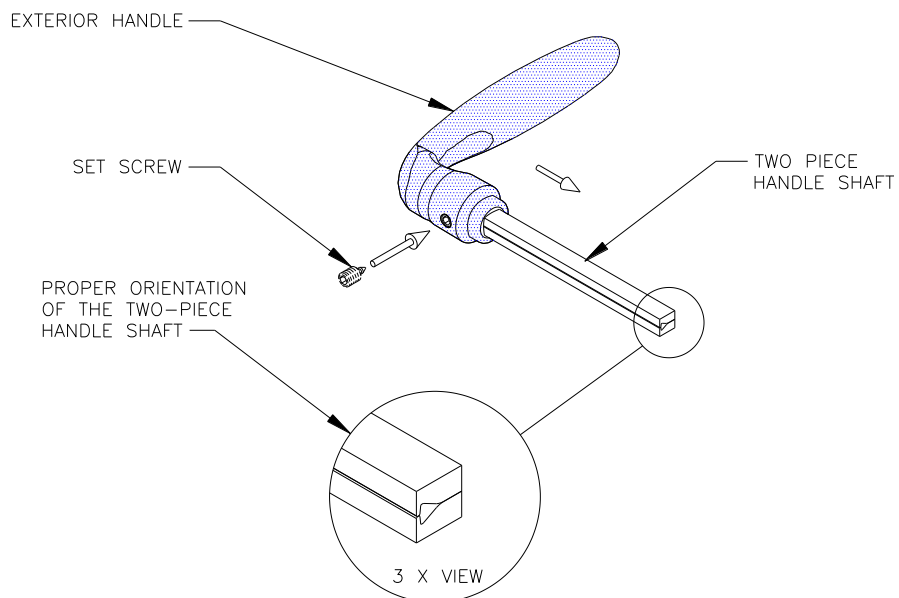


Figure 25

8. Install the lock cylinder from the interior side of the door by:
 - a. Pushing it into the slot
 - b. Installing the cylinder screw in the screw hole below the deadbolt in the edge of the door.

TerraSwing 61/62E Installation & Maintenance Manual

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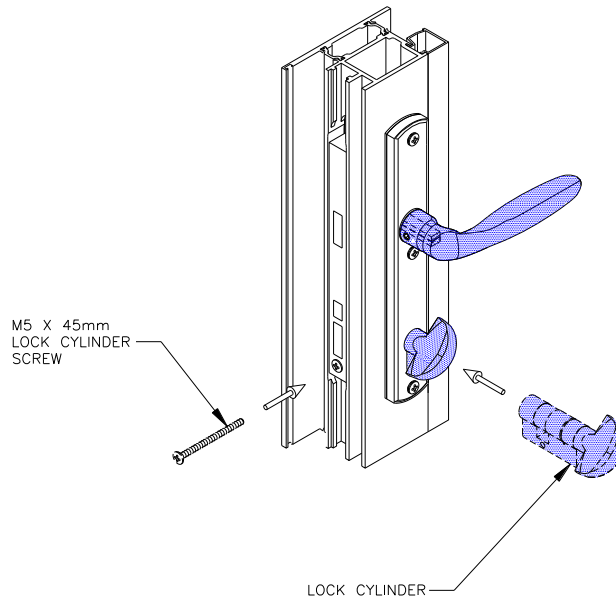


Figure 26

9. Using a phillips head screwdriver, tighten down the backplate screws.
10. Give the installed hardware a trial run. If it operates correctly, the installation is complete.

LOCKING SYSTEM

- INSPECTION
 - The locking system should be inspected on an annual basis (more if necessary) to ensure proper operation, in addition all fasteners should be checked at this time to ensure none have loosened.

Roller Cam

- ADJUSTMENT
 - If adjustment is required, rotate the roller lock with an Allen wrench, until the desired position is reached. The following diagrams show how the adjustment can be made and what the corresponding result is.

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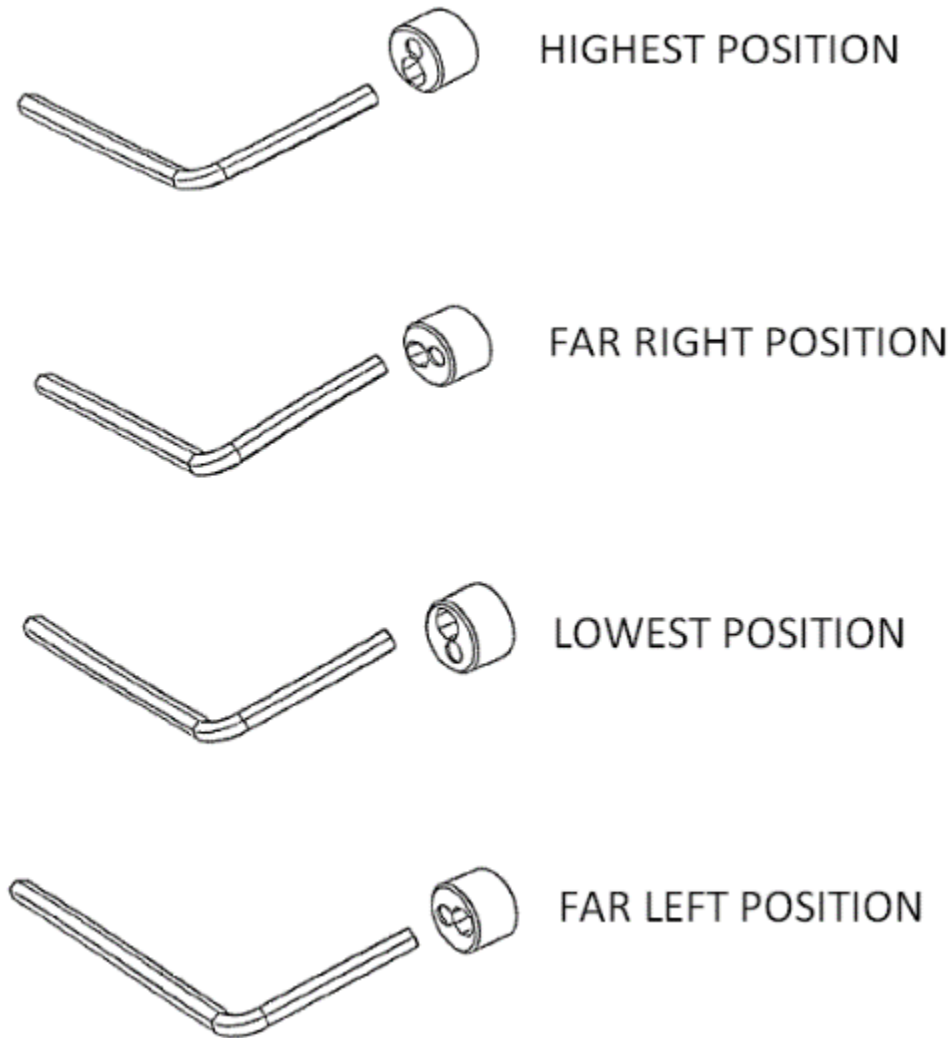


Figure 27

TerraSwing 61/62E Installation & Maintenance Manual

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Oldcastle
BuildingEnvelope

930 Single Avenue
P.O. Box 299
Wausau, Wisconsin 54402-0299
715-845-9666

SCALE:	1:1	SERIES:	61E, 62E, 67E
CONFIGURATION:	OUTSWING LEFT JAMB	DRAWN BY:	PETE S.
DATE:	9/28/2006	REVISION LEVEL:	CHRIS H - 8/3/2012

OUTSWING DOOR LEFT
JAMB IS LOCK JAMB (AS
VIEWED FROM EXTERIOR)

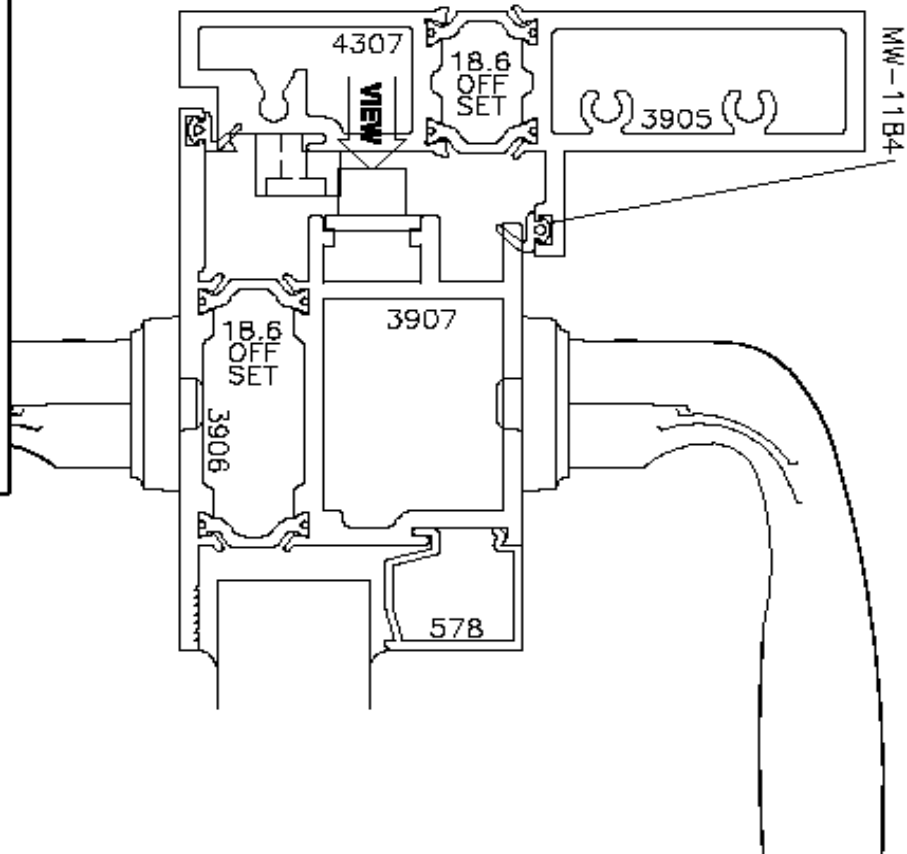
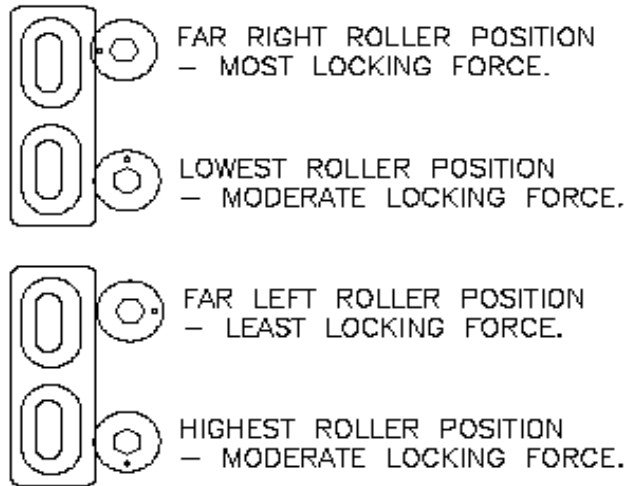


Figure 28

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

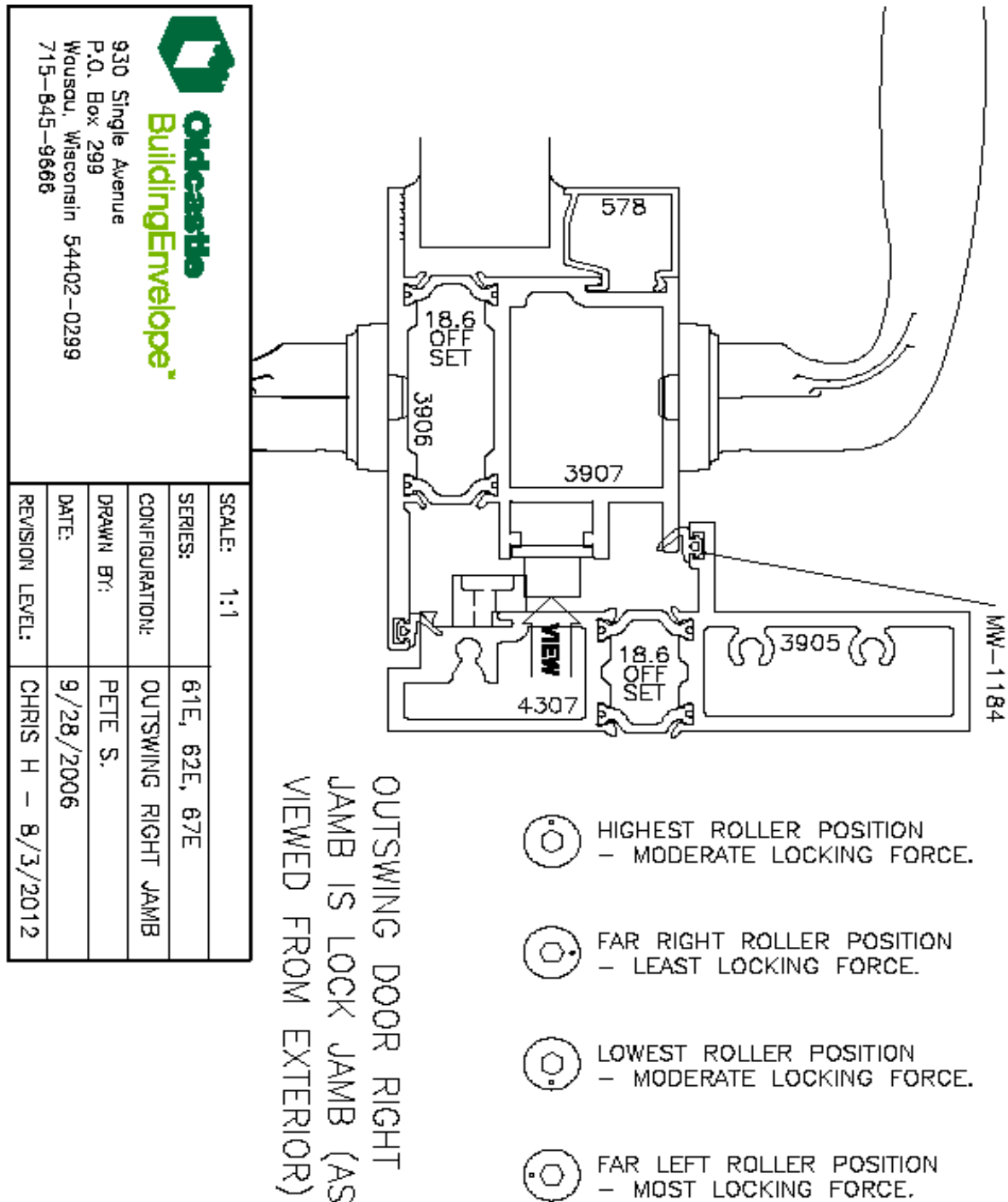


Figure 29

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

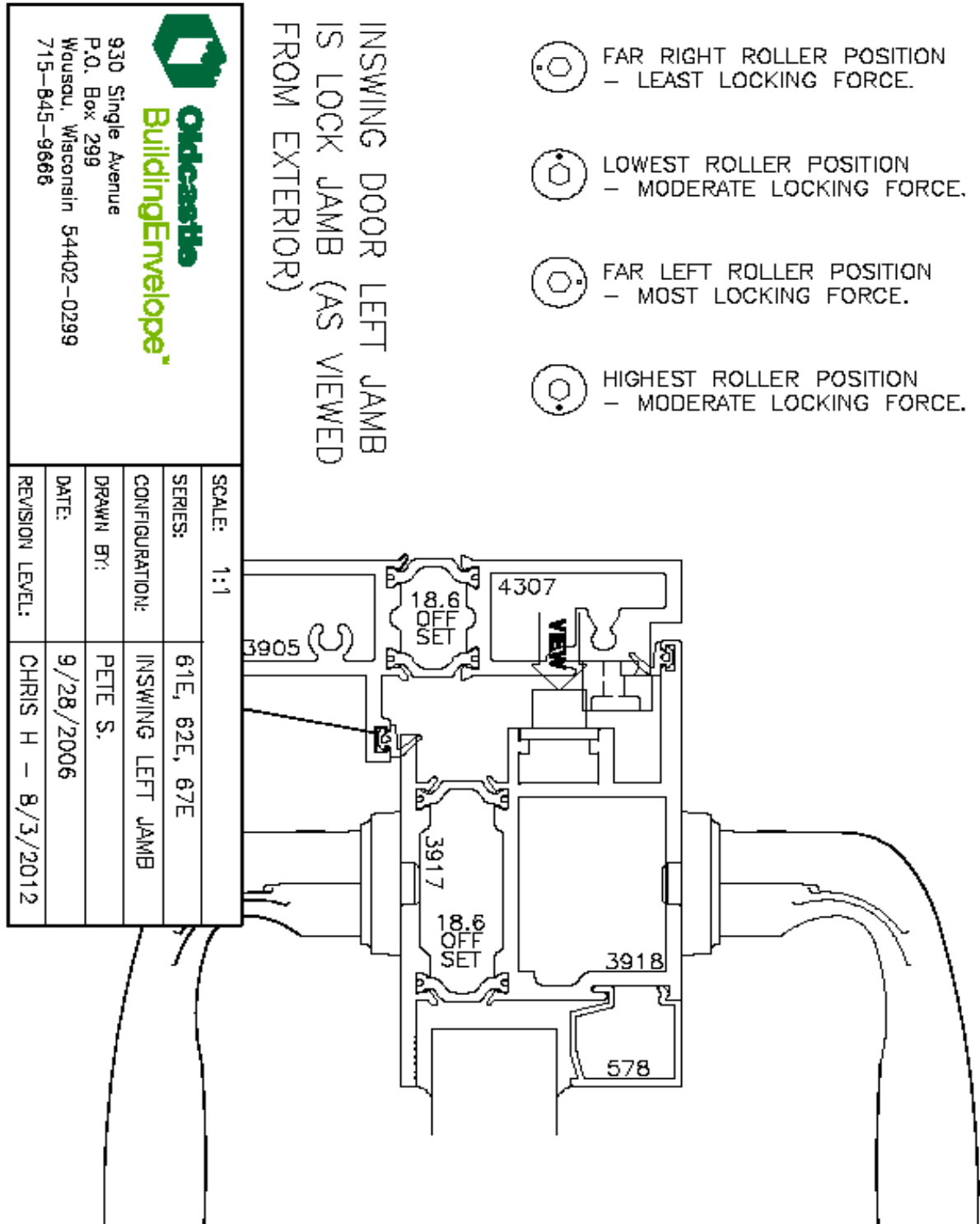


Figure 30

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

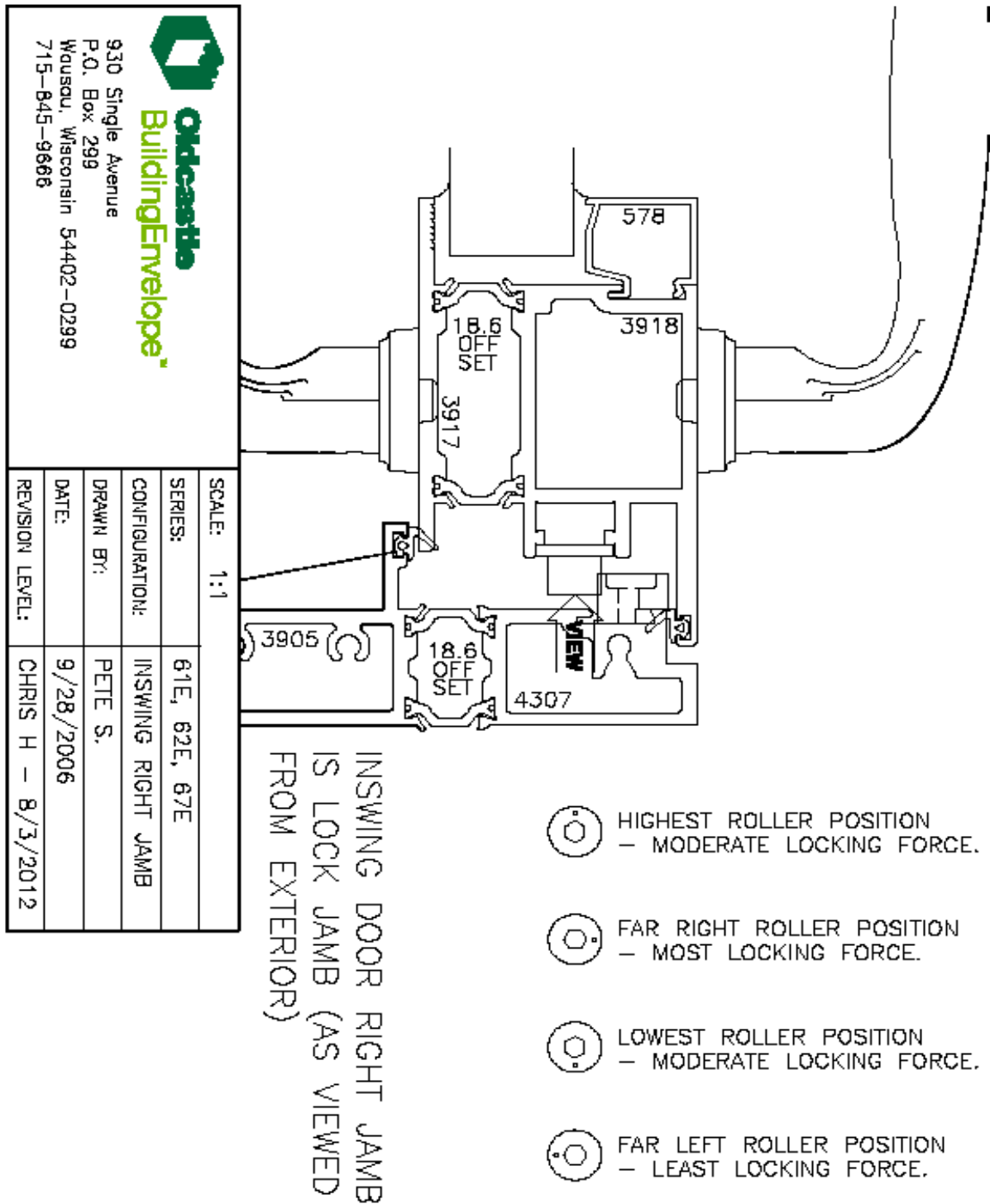


Figure 31

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

Roller Strike

- ADJUSTMENT

- If adjustment is required, reposition vertically if there is any lock interference or for more engagement for the full travel of the roller lock. All that is needed for this adjustment is a Phillips head screwdriver to loosen the strike screws to allow for adjustment and to tighten the screws once the desired position is achieved. The following diagram depicts the adjustment of the roller lock strike.

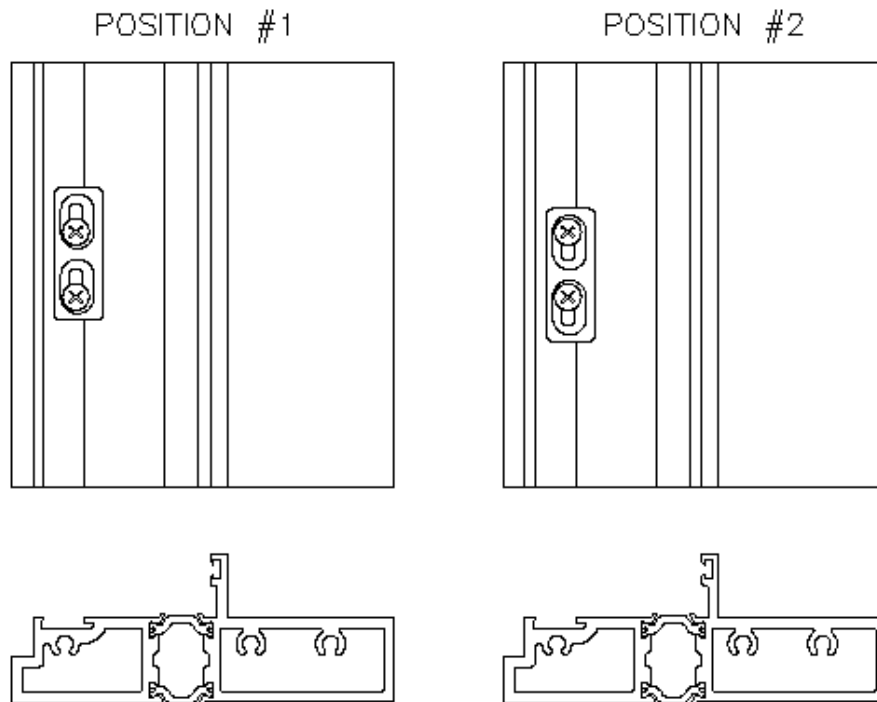


Figure 32

- CLEANING

- If required, the lock system should be cleaned with a mixture of mild dish soap and water.
- After cleaning, the lock system should be thoroughly rinsed with clean water.

- LUBRICATION

- The lock system should be clean and dry prior to applying lubrication.
- Apply a light coat of oil as required on the lock points between the brass roller and stainless-steel stud care must be taken when applying oil as it may stain other components of the door system.
- Close and lock/unlock door several times to work lubrication into the lock system.

TerraSwing 61/62E Installation & Maintenance Manual

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BUTT HINGE

- INSPECTION
 - The hinges should be inspected on an annual basis (more if necessary) to ensure proper operation, in addition all fasteners should be checked at this time to ensure none have loosened.
- CLEANING
 - If required, the hinges should be cleaned with a mixture of mild dish soap and water.
 - After cleaning, the hinges should be thoroughly rinsed with clean water.
- LUBRICATION
 - The hinges should be clean and dry prior to applying lubrication.
 - Apply a light coat of oil as required between the hinge leaves, care must be taken when applying oil as it may stain other components of the door system.
 - Open and close the door several times to work lubrication into the hinges.

TerraSwing 61/62E Installation & Maintenance Manual

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SWING DOOR SERVICE INSTALLATION PACKET

Swing Door Service
Installation Packet
Paquete de servicio e
instalación de puerta giratoria

Do Not Discard
Leave with Homeowner

No deseche
Entréguese al propietario

Part No. 8785827
Nº de pieza 8785827

TerraSwing 61/62E Installation & Maintenance Manual

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

Swing Door Handle Set Installation Instructions

A Phillips screwdriver is required.

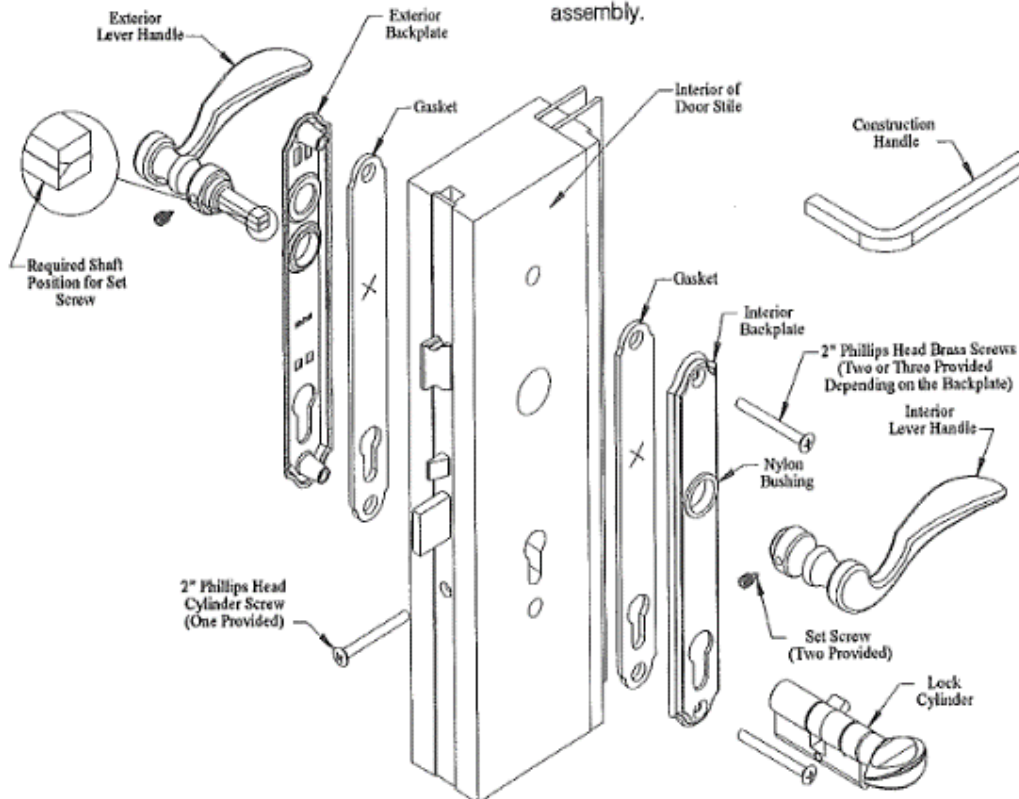
An Allen wrench for set screws is provided in the hardware package.

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 based 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.



TerraSwing 61/62E Installation & Maintenance Manual

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Juego de manillas de puerta giratoria Instrucciones de instalacion

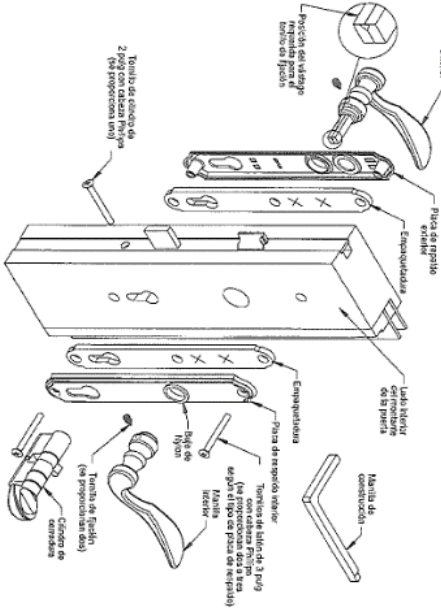
Se requiere un destornillador Phillips.

Se proporciona una llave hexagonal para los tornillos de fijación en el paquete de tornillería.

Para evitar dañar la manilla durante la fase de construcción, utilice la manilla para construcción que se incluye para abrir la puerta. Levante la manilla para enganchar las tablas multipunto con la puerta cerrada. Empuje la manilla hacia abajo para abrir la puerta.

Limpie con agua y un trapo suave. No use productos limpiadores de látex ya que éstos quitan el revestimiento protector.

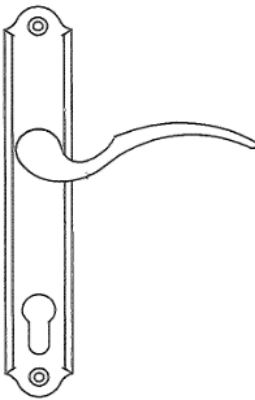
Nota: Los estilos de las manillas y placas de respaldo varían, pero su uso es igual.



1. Coloque la empaquetadura de la placa de respaldo en el lado interior de la placa de respaldo exterior. Empuje la empaquetadura firmemente en su lugar para formar un sello hermético. Coloque la empaquetadura de la placa de respaldo en el lado interior de la placa de respaldo interior. Coloque las placas de respaldo interior y exterior y sujételas con los dos tornillos provistos sin apretarlos. **Nota:** Las cabezas de los tornillos deben quedar orientadas hacia el lado interior de la puerta.
2. Inserte el vistago de dos piezas en la manilla. Asegure de orientar el vistago como se muestra en la ilustración siguiente. Encoque el tornillo de fijación hasta que quede a ras con la manilla usando la llave Allen. Inserte la manilla en el agujero del pestillo.
3. Instale la manilla interior en el vistago, a través del agujero del pestillo, optimizando ajustadamente contra las placas de respaldo. Apriete el tornillo de fijación de la manilla interior usando la llave Allen. Encoque hasta debajo a ras con la manilla.
4. Inserte el cilindro configurado para la llave por el lado interior de la puerta hasta que quede a ras con la placa de respaldo exterior. Instale el tornillo del cilindro en el agujero que está debajo del cerrojo, en el borde de la puerta.
5. Apriete los tornillos de la placa de respaldo.

Swing Door Handle Operation Instructions

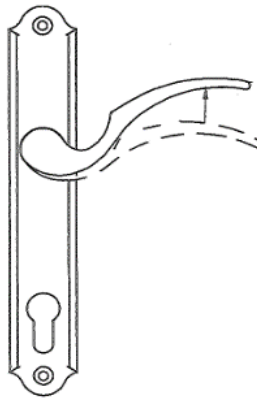
Handles and backplates vary in style.



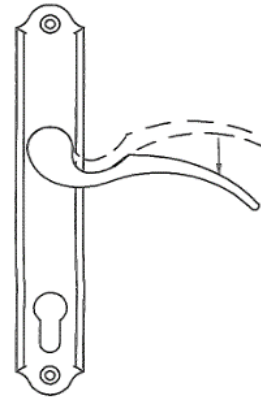
To lock automatic system, push door shut. Multipoint engages automatically.

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.



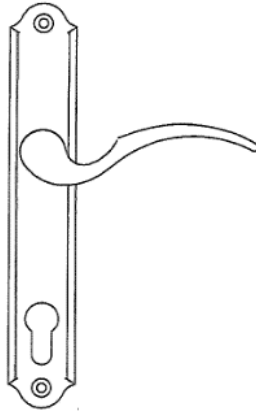
To open, disengage deadbolt with key or thumbturn, push handle down to stop and then open door.

TerraSwing 61/62E Installation & Maintenance Manual

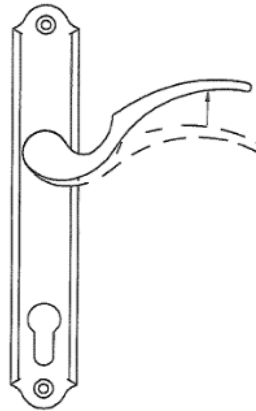
Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

Instrucciones de uso de la manilla de puerta giratoria

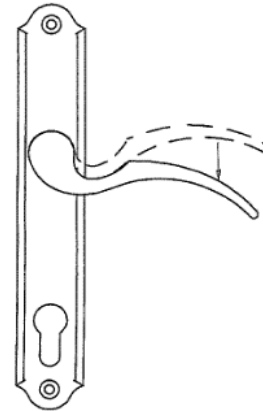
Los estilos de las manillas y placas de respaldo varían



Para atrancar el sistema automático, empuje la puerta hasta cerrarla. Las trabas multipunto se enganchan automáticamente.
Para atrancar el sistema manual, levante la manilla para enganchar las trabas multipunto antes de enganchar el cerrojo.
Utilice la llave o pasador de giro para enganchar el cerrojo.



Si el cerrojo no se engancha completamente, enganche el sistema manualmente levantando la manilla antes de enganchar el cerrojo.



Para abrir la puerta, desenganche el cerrojo con la llave o el pasador de giro, empuje la manilla hacia abajo hasta su tope y luego abra la puerta.

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.

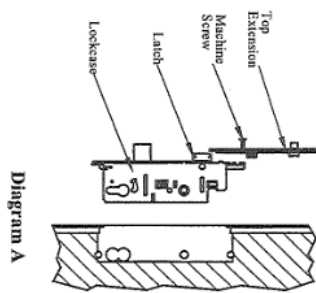


Diagram A

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.

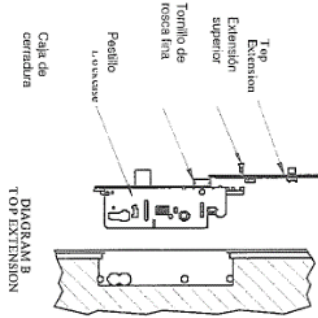
PLEASE NOTE: MAIN GEAR AND EXTENSIONS SHOULD BE HAND-TIGHTENED ONLY. EXCESSIVE FORCE MAY CAUSE DRIVE RAIL TO BIND AND INHIBIT SYSTEM OPERATION.

TerraSwing 61/62E Installation & Maintenance Manual

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Instalación de cerraduras multipunto para puerta giratoria

1. Cuando la puerta está en posición abierta, el bisel del pestillo deberá empujar el pestillo dentro de la caja de la cerradura al cerrar la puerta. Si es necesario invertir el pestillo, consulte la hoja de ajuste de la cerradura.
2. Deslice el mecanismo principal (mostrado en el diagrama) en su lugar, alineando los agujeros taladrados en la puerta con el cilindro, agujeros de manilla y caja de la cerradura para colocar la pieza decorativa en posición adecuada.



3. Instale el juego de manillas según lo indicado en las instrucciones de instalación del juego de manillas para puertas giratorias de patio.
4. Saque el tornillo de rosca fina de la parte superior de la caja de la cerradura. Deslice la extensión superior en su lugar y fíjela a la caja de la cerradura con los tornillos de rosca fina provistos en el borde de la puerta. Utilice tornillos N° 6. Los tornillos N° 6 deberán enroscarse a ras con la placa de sujeción, pero sin apretarlos excesivamente. Pruebe el mecanismo con la puerta en posición abierta. Engrane el sistema levantando la manilla (observe si el sistema multipunto se acciona en el borde de la puerta) y extienda el cerrojo girando el pasador de giro. Si el sistema funciona en el borde de la puerta y el cerrojo funciona, el equipo instalado en la puerta funciona plenamente. En caso contrario, por favor consulte la Guía para la localización de averías.

FAVOR DE OBSERVAR: EL MECANISMO PRINCIPAL Y LAS EXTENSIONES DEBEN APRETARSE CON LA MANO SOLAMENTE. EL USO DE FUERZA EXCESIVA PUEDE HACER QUE EL RIEL IMPULSOR SE ATORE E IMPEDIR QUE EL SISTEMA FUNCIONE.

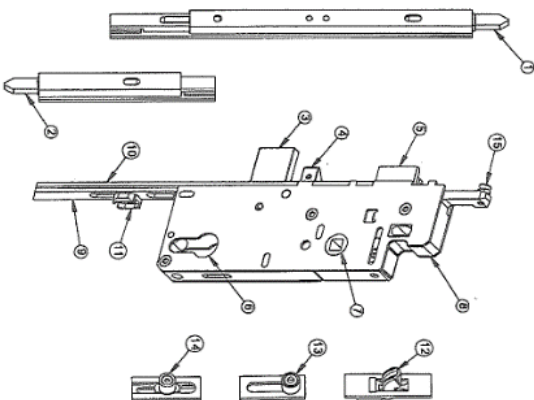
HL S9000 Multipoint Hardware System Terminology

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.



TerraSwing 61/62E Installation & Maintenance Manual

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Terminología del sistema de equipo multipunto

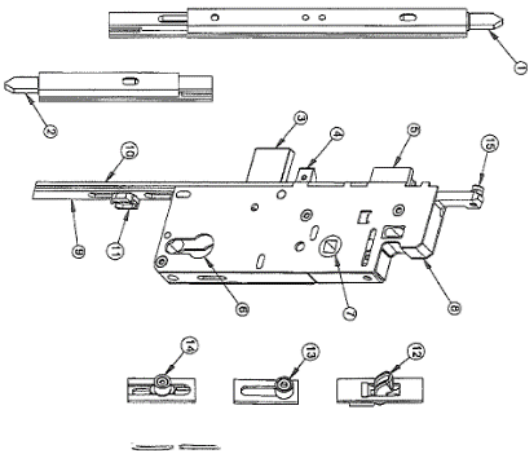
HLS9000

- Mantenimiento de piezas decorativas:
Limpie con agua y un trapo suave. No use productos limpiadores de latón ya que éstos quitan el revestimiento protector.
- Cilindro de perfil:
Los cilindros se ofrecen en la versión con llave modificable en las bocallaves Schlage C y Weiser de 5 clavijas. Las llaves vírgenes se pueden obtener en la mayoría de las ferreterías comunes.

TERMINOLOGÍA:

- Cerrojo superior
- Cerrojo inferior
- Cerrojo
- Dispositivo contra intrusión
- Pestillo
- Agujero del cilindro
- Agujero de manilla
- Caja de cerradura
- Riel impulsor
- Placa de sujeción
- Soporte de tornillo
- Pestaña
- Rodillo
- Clavija de soldado automático
- Tornillo Phillips de rosca fina de extensión superior

Nota:
Se ilustran todas las opciones para fines de terminología.
Un sistema particular NO incluye todos los componentes, sólo se muestran en el



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.
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.
- 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.
- 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).
- 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.
- 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 1/2 turn.

TerraSwing 61/62E Installation & Maintenance Manual

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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.

Guía para la localización de averías Cerradura multipunto para puerta giratoria

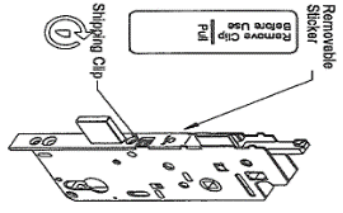
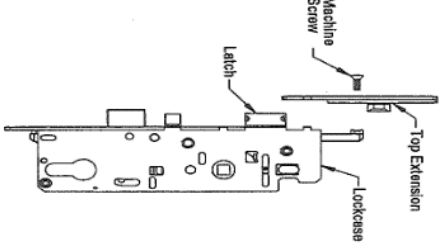
- Compruebe que la puerta esté a escuadra en su marco antes de ajustar otros elementos. Con la puerta en posición abierta, accione el sistema levantando la manilla y extienda el cerrojo girando el pasador de giro. Si el sistema funciona en el borde de la puerta y el cerrojo funciona, el equipo funciona plenamente.
1. EL SISTEMA NO FUNCIONA CUANDO SE LEVANTA LA MANILLA
Causa probable: Instalación incorrecta del juego de manillas.
Solución: Retire la manilla y vuélvala a instalar. Consulte las instrucciones de instalación del juego de manillas.
 2. EL SISTEMA FUNCIONA CON LA PUERTA ABIERTA CUANDO SE LEVANTA LA MANILLA PERO NO FUNCIONA CON LA PUERTA CERRADA
Causa probable: Relación entre la puerta y su marco.
Solución: Compruebe que la puerta esté a escuadra en el marco.
Causa probable: Si la cerradura es de versión automática, la clavija de solado automático podría no estar debidamente ajustada.
Solución: Consulte la hoja de ajuste de la cerradura.
 3. LOS PUNTOS DE TRABA NO SE ENGANCHAN CON LA PUERTA CERRADA
Causa probable: El cerrojo no se extiende completamente.
Solución: Despeje los objetos que obstruyan la trayectoria del cerrojo (aislamiento, madera, etc.).
 4. EL CERROJO NO SE ENGANCHAN COMPLETAMENTE
Causa probable: Los puntos de traba no se enganchan completamente. El diseño del sistema no permite que el cerrojo se accione a menos que los puntos de traba estén completamente enganchados.
Solución: Vuelva a revisar el sistema en busca de atascamiento. Verifique que el cerrojo se extienda completamente dentro del cerradero. Compruebe que los puntos de traba se enganchen correctamente en los cerraderos del marco.
 5. NO ES POSIBLE GIRAR EL PASADOR DE GIRO O LA LLAVE
Causa probable: Las placas de respaldo posiblemente no están derechas.
Solución: Verifique que los agujeros interiores y exteriores estén alineados con la caja de la cerradura. Suelte los tornillos de la placa de respaldo 1/2 vuelta.

TerraSwing 61/62E Installation & Maintenance Manual

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6. **INTERFERENCIA DE PUERTA CON LA MANILLA**
 Causa probable: El revestimiento o madera en el agujero interfiere con el vástago.
 Solución: Verifique que los agujeros taladrados estén alineados con los agujeros de tornillos y de la manilla. Podría ser necesario usar una lima o taladro para agrandar los agujeros ligeramente.
7. **LOS TORNILLOS DE FIJACIÓN NO PENETRAN EN LA MANILLA COMPLETAMENTE**
 Causa probable: El vástago no ha sido armado debidamente.
 Solución: Quite la manilla para ver cómo se ha armado el vástago. Consulte las instrucciones de instalación del juego de manillas para el armado y posición correctos del vástago.
8. **EL PUNTO DE TRABA INFERIOR SE MUEVE PERO EL PUNTO DE TRABA SUPERIOR NO**
 Causa probable: El riel impulsor de la extensión superior no está conectado con la caja de la cerradura.
 Solución: Saque los tornillos que se usan para fijar la extensión superior a la puerta y el tornillo de rosca fina que la fija a la caja de la cerradura y retire la extensión superior. Coloque el extremo del riel impulsor (con forma de "L") en la caja de la cerradura, encima del pestillo, mientras se desliza la extensión superior dentro de la puerta. Fíjelo con un tornillo a la caja de la cerradura y con el tornillo más arriba. Accione el mecanismo para verificar que funciona. Después termine de instalar el resto de los tornillos.
9. **SI LA PUERTA TIENE JUEGO O NO SE SELLA CORRECTAMENTE**
 Causa probable: La unidad no está debidamente ajustada.
 Solución: Doble la pestaña del cerradero.
10. **LA LLAVE NO FUNCIONA EN EL CILINDRO**
 Causa probable: El cilindro no se reconfiguró correctamente para la llave.
 Solución: Consulte con el constructor o con el instalador para ver si se cambió la configuración de la llave del cilindro para que correspondiera con las demás puertas de la casa. En tal caso, devuelva la cerradura al cerrajero para que la configure para la llave correcta.

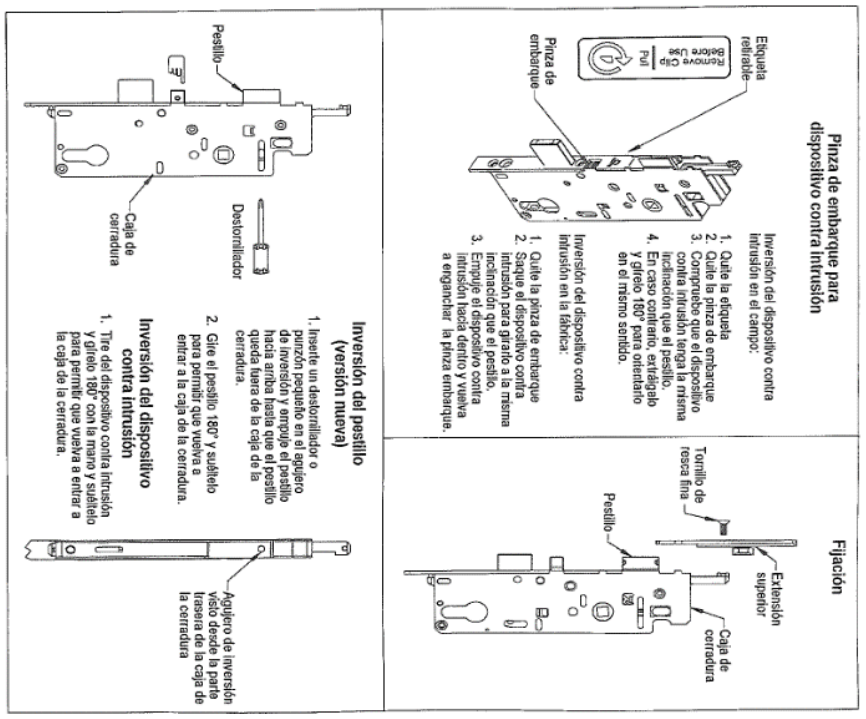
Hardware Modification Instruction Sheet

 <p>Shipping Clip for Mishandling Device</p> <p>Reversing Mishandling Device in Field:</p> <ol style="list-style-type: none"> 1. Remove sticker 2. Remove shipping clip 3. Make sure mishandling device is stopped the same as latch. 4. If not, pull out and spin 180° to the same direction. <p>Reversing Mishandling Device in Factory:</p> <ol style="list-style-type: none"> 1. Remove shipping clip 2. Pull out mishandling device to spin to stop the same as latch. 3. Push mishandling device in and snap shipping clip back in. 	 <p>Attachment</p> <p>Reversing Latch (New Version)</p> <ol style="list-style-type: none"> 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. <p>Reversing Mishandling Device</p> <ol style="list-style-type: none"> 1. Pull and rotate mishandling device 180° with hand and release back into lockcase. <p>Reversing hole as viewed from back of lockcase</p>
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Hoja de instrucciones de modificación de cerradura



Rekeying of Cylinders

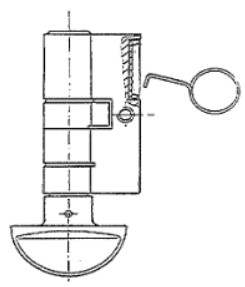
Rekeying should be done by a qualified locksmith

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:



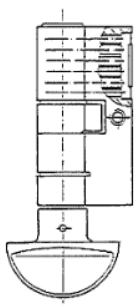
(E) Plastic Insert

(D) Springs

(C) Housing (Top) Pins

(B) Core (Bottom) Pins

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



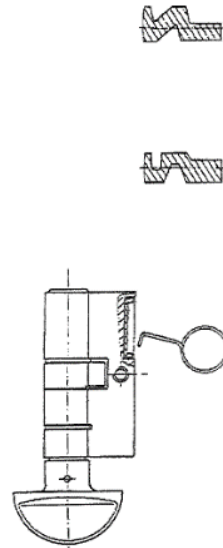
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Cambio de llave de cilindros

Bocallaves disponibles: Schlage (SC1) o Weiser

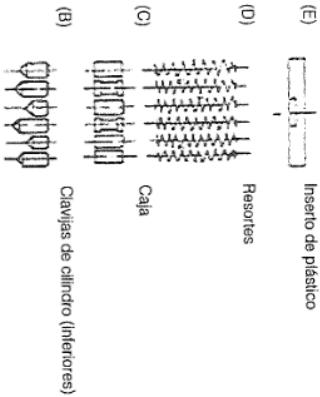
Se ofrecen juegos de llaves para ambas bocallaves.



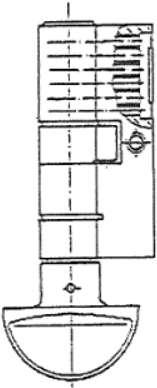
1. Quite el inserto de plástico ubicado en la parte inferior del cilindro. Extraiga todas las clavijas y resortes.
2. Determine el tamaño de las clavijas con el calibre de llaves.
3. Arme la unidad de la manera siguiente:



- 1°. Clavijas del cilindro (B) - (vea el paso 2)
- 2°. Clavijas de caja y diabol (C) alternadas entre las clavijas sencillas y con forma de pasas
- 3°. Resortes (D)
- 4°. Inserto de plástico (E) - enganche el inserto de plástico para terminar de cambiar la llave

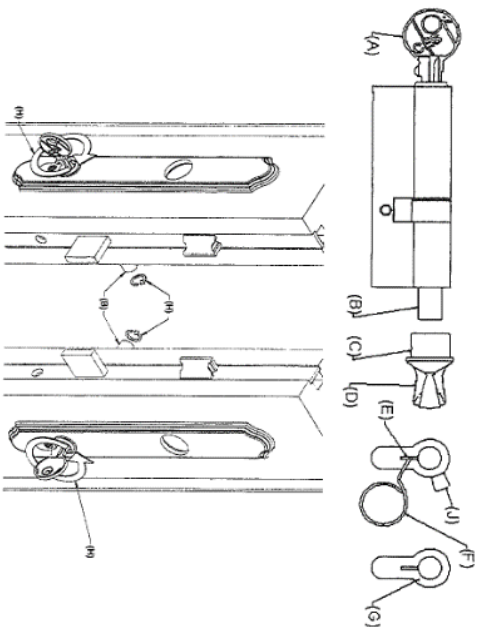


Nota: Los cilindros CES se preparan únicamente con cilindros de 5 clavijas - el agujero interior se deja vacío.



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.



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Instrucciones de instalación Cilindro de 90° de giro

1. Suelte el tornillo de fijación (C) de la perilla usando la llave Allen provista.
2. Quite la perilla (D) del cuerpo del cilindro (B).
3. La pestaña impulsora (J) debe quedar alineada con el cilindro para poder instalarlo en el mecanismo de la cerradura. Si no es posible girar la pestaña a esta posición, empuje la clavija (E) hacia abajo usando la llave de anillo (F) incluida para desenganchar los topes y gire el vástago (B) hasta que la pestaña (J) quede alineada con el cilindro (G).
4. Sujete el cilindro en esta posición e inserte el cuerpo del cilindro en la puerta, de modo que la pestaña del cilindro quede en el lado interior de la cerradura.
5. Gire el vástago (B) al cual se conecta el pasador de giro de modo que la parte superior del poste se mueva hacia el borde de la puerta, o inserte la llave (A) en el cilindro y gírela de modo que la parte superior de la llave se mueva hacia el borde de la puerta (H). Esto extiende el cerrojo. Si el poste o la llave se gira en el sentido incorrecto, girará aproximadamente 120 grados y se trabará, impidiendo que se gire en ningún sentido. Si esto ocurre, empuje la clavija (E) hacia abajo usando la llave de anillo (F) incluida para desenganchar los topes y gire la llave (A) en sentido opuesto hasta que el cerrojo se extienda.
6. Fije la perilla (D) en sentido horizontal en el vástago del cilindro (B) con el agujero del tornillo de fijación (C) hacia abajo.
7. Apriete el tornillo de fijación (C). Instale el tornillo del cilindro.

PARA RETIRAR EL CILINDRO: Suelte y saque el tornillo del cilindro y repita los pasos 1-4 anteriores.

