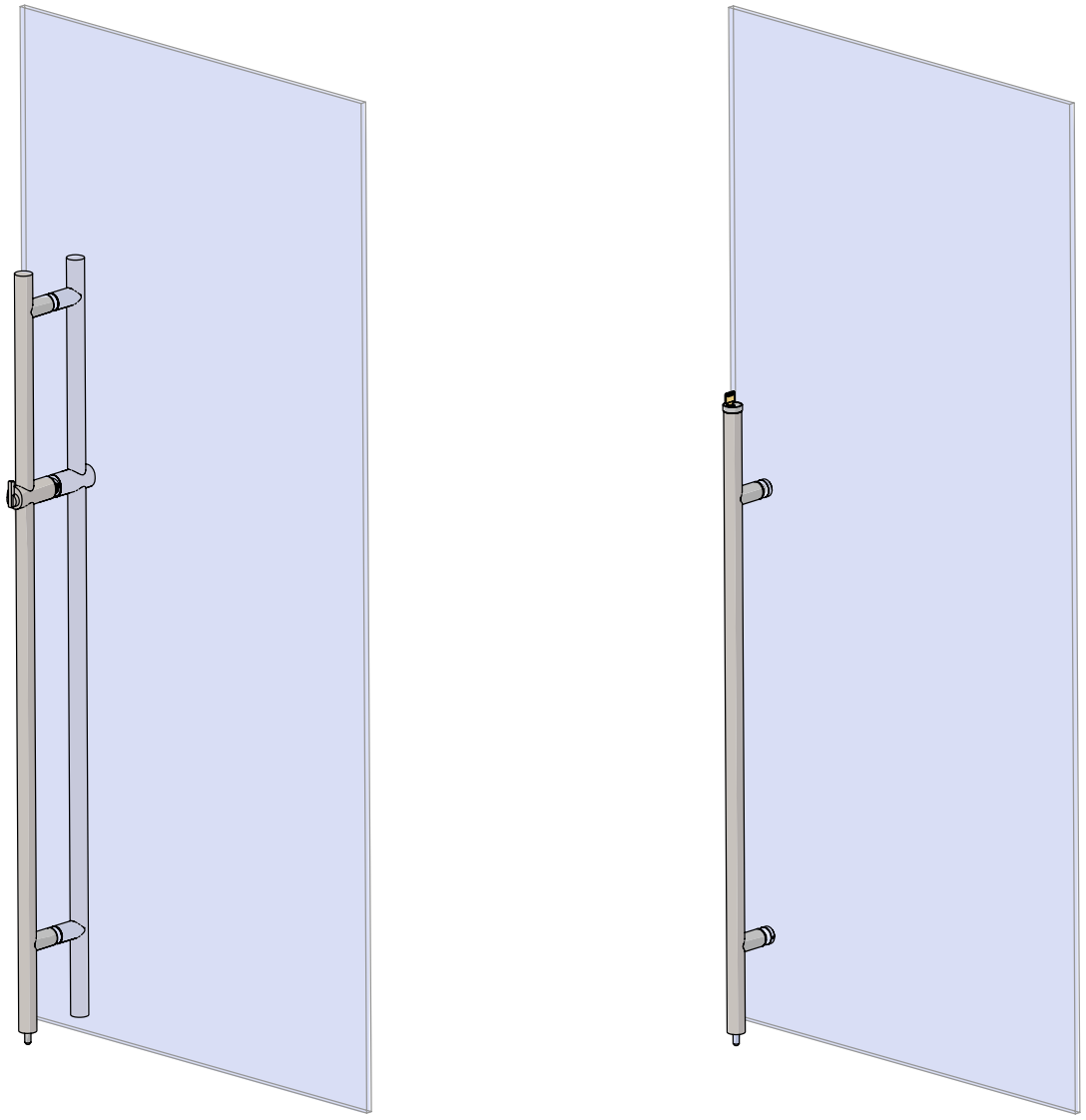


TG 138 Locking Ladder Pulls

Back-to-back and Single-sided

Installation instructions

926953 – 07-2018

| EN |

dormakaba

Table of contents

1 Technical specifications

1.1 Overview

These instructions are for installation of TG 138 Back-to-back and Single-sided Locking Ladder Pulls for the following mounting and style versions:

1. **Glass door mount**
2. **Wood door mount**

1.1.1 General information

- dormakaba requires use of tempered laminated or tempered monolithic glass.
- dormakaba glass hardware is not suitable for harsh environment; for example, applications where chemicals (e.g. chlorine) are used such as indoor swimming pools, saunas, or salt-water pools.
- Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
- Do not swing/slide doors with excessive force. Ensure proper installation of limiting stop to prevent door from opening too far.

1.1.2 Intended use

- For swinging/sliding doors in dry indoor areas only.
- For manual slow opening and closing only.

1.1.3 Glass requirements/fittings/mounting

- Fasteners must be sufficiently dimensioned for the substructure/wall and weight of the door.
- When adjusting glass components, always stick to the required clearance for the respective hardware. Adjust clearance so glass does not come in contact with any hard surfaces such as glass, metal or concrete.
- Do not use excessive force when installing the glass (avoid over tightening screws.)

1.1.4 Requirements for glass panel

- dormakaba requires use of fully tempered glass, which complies with ASTM C 1036 and ASTM C 1048. Secondary heat soaking processes are recommended but not required. This applies to both tempered monolithic and tempered laminated glass.
- Clamping area must be flat and uncoated (no self-cleaning coating!)
- Never use glass with conchoidal fractures and/or damaged edges.

1.1.5 Safety instructions

- Always wear protective clothing.
- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.
- Due to crushing hazards and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
- Never clamp metal fitting hardware directly to glass surface.

1.1.6 Symbols used - Safety/Installation

CAUTION

Mounting components must meet the requirements of substructure/wall and door weight. Please read the technical information for fittings.

WARNING

Risk of breaking glass. When installing the door, support the door panel with a block of wood or similar object.

TIPS AND RECOMMENDATIONS

Information note

CLOSING EDGE OF DOOR

1.1.7 Maintenance, care, repair

- Immediately replace damaged parts.
- Always use original dormakaba parts.
- Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.
- Use a damp cloth for occasional cleaning.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check glass hardware at regular intervals for proper positioning, smooth operation and correct adjustment.
- High traffic door systems require inspection by properly qualified staff (specialized companies or installation firms.)

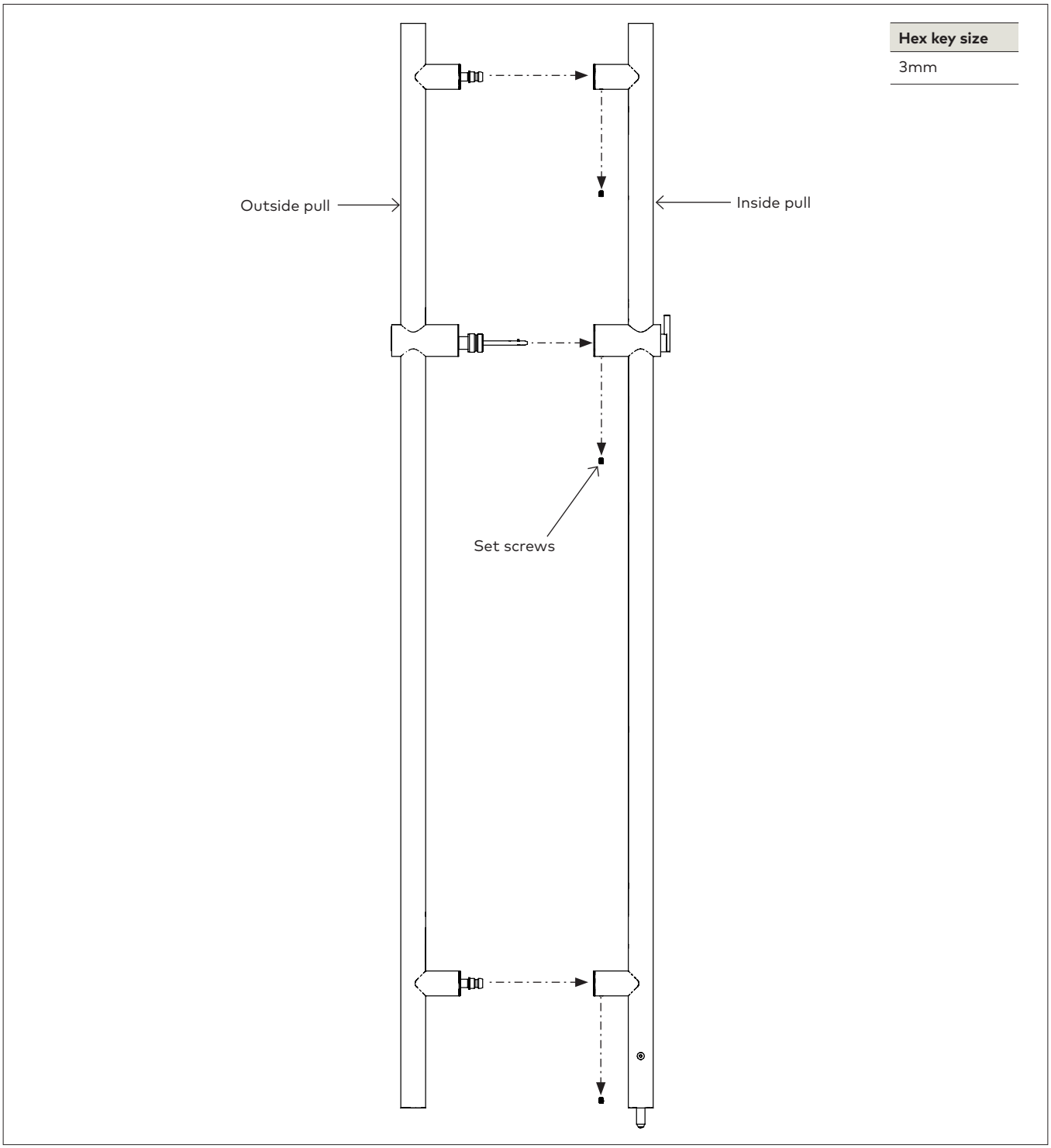
1.1.8 Disposal

Disposal in accordance with local, state and national regulations.

2 Installation: Back-to-back locking ladder pulls

2.1 Disassemble the pulls

Fig 1

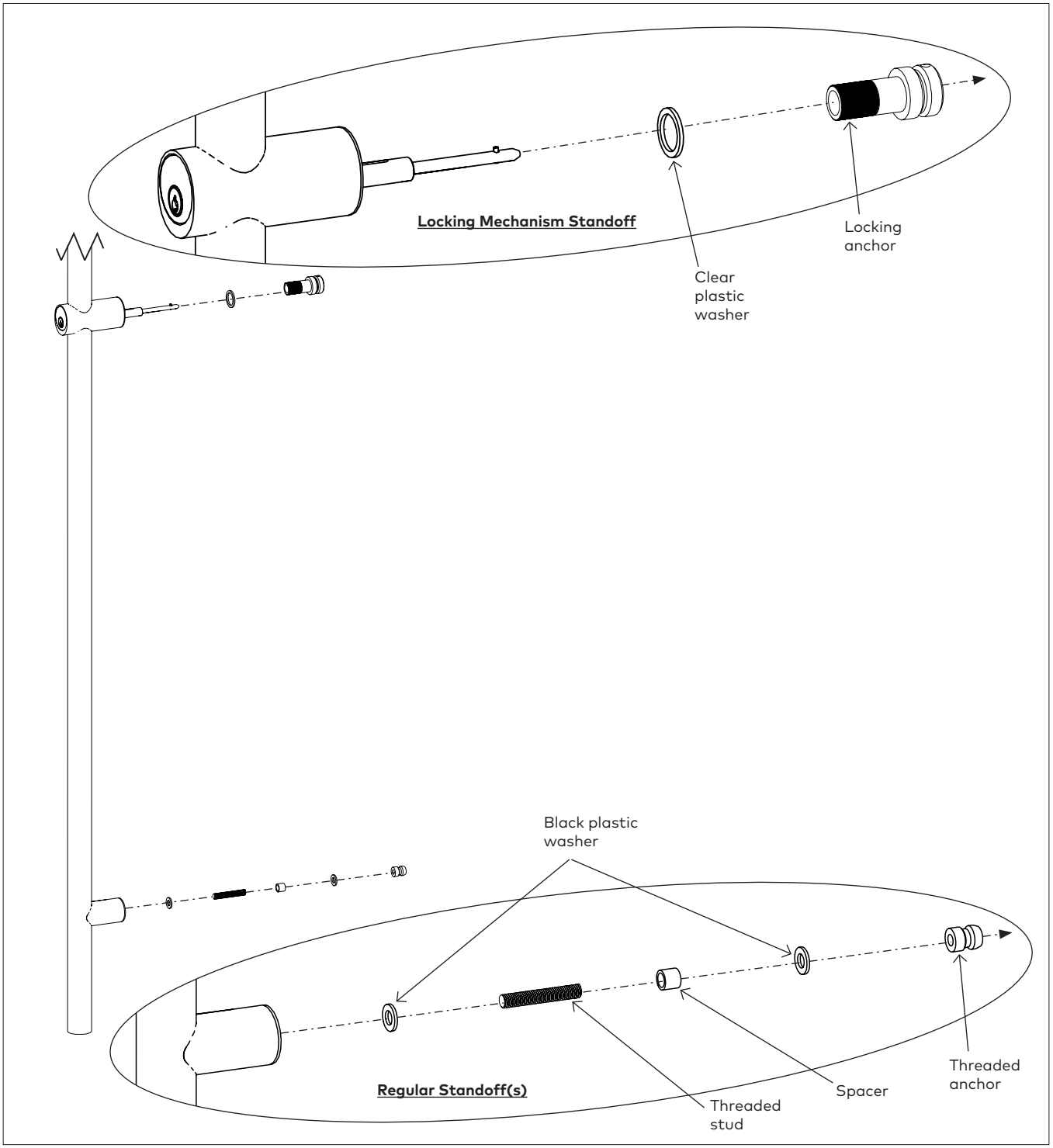


2.1.1 Disassemble pulls on flat surface.

- Loosen set screws in each stand off to separate pulls.

2.2 Disassemble all fasteners

Fig 2

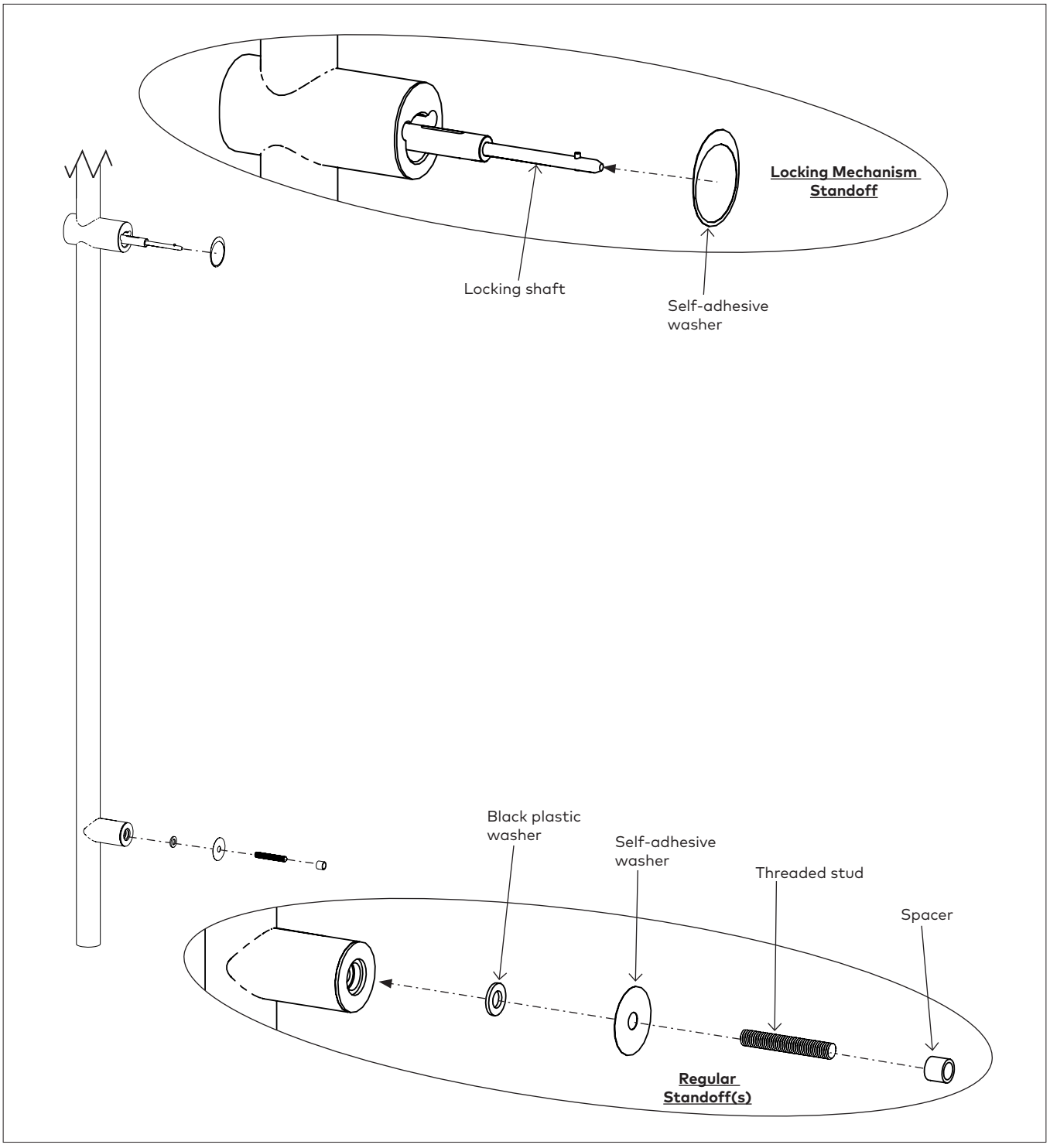


2.2.1 Unthread parts from **locking mechanism standoff**:
- Locking anchor
- Clear plastic washer

2.2.2 Unthread parts from **regular standoffs**:
- Threaded anchor
- Black plastic washers (qty: 2 per each regular standoff)
- Threaded stud
- Spacer

2.3 Reassemble fasteners into OUTSIDE/EXTERIOR pull

Fig 3



NOTE: Be sure to use correct length locking shaft dependent upon thickness and type of door being used.

2.3.1 Assemble **locking mechanism standoff (OUTSIDE Pull)**:

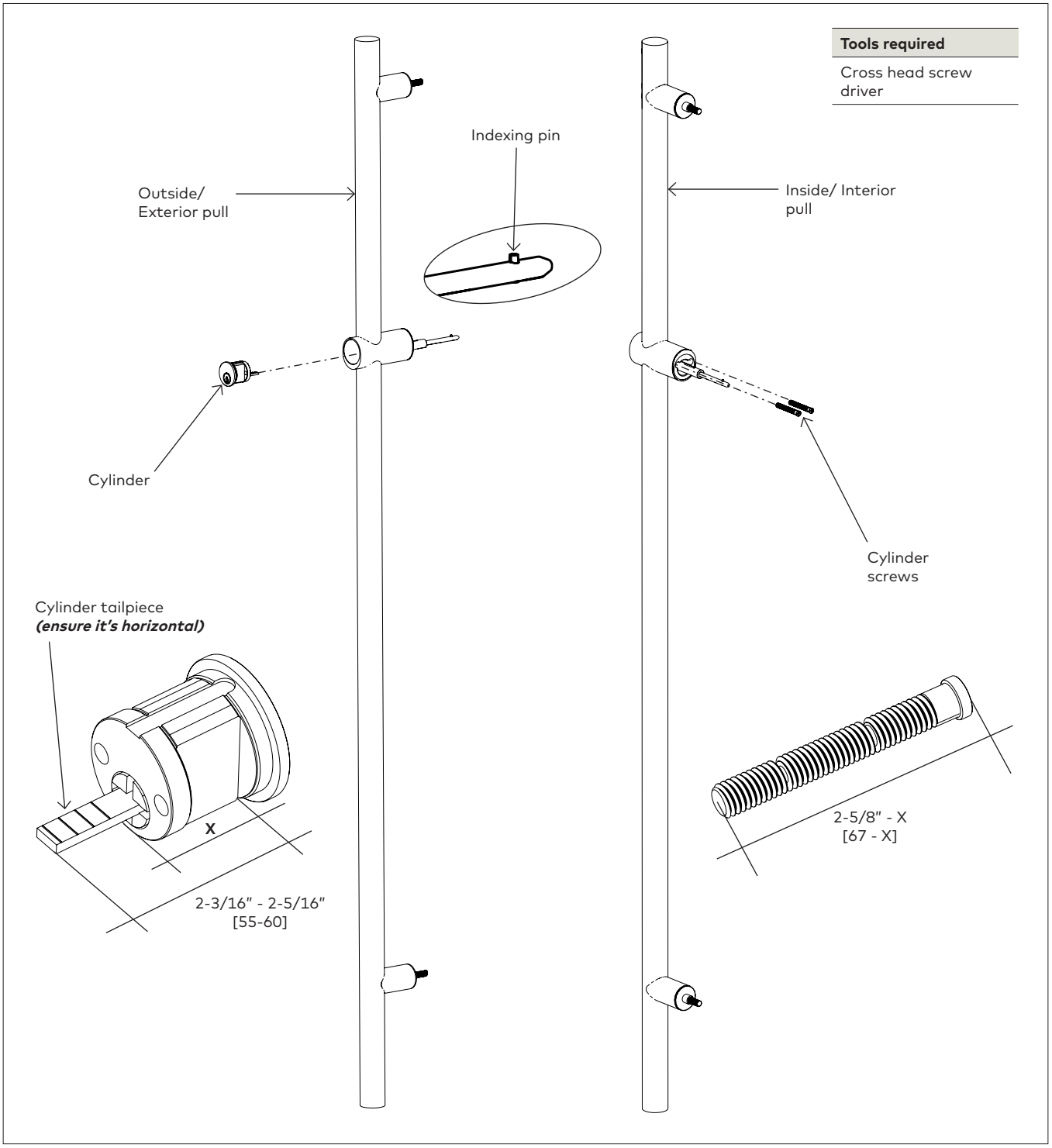
- Self-adhesive washer

2.3.2 Assemble **regular standoffs (OUTSIDE Pull)** in this order:

- Black plastic washer
- Self-adhesive washer
- Threaded stud
- Spacer

2.4 Install lock cylinder

Fig 4



2.4.1 Measure and cut cylinder tail piece to appropriate length.

2.4.2 Install cylinder into outside pull.

NOTE: Ensure indexing pin is pointing upwards.

NOTE: Ensure tailpiece is horizontal and engages with locking mechanism.

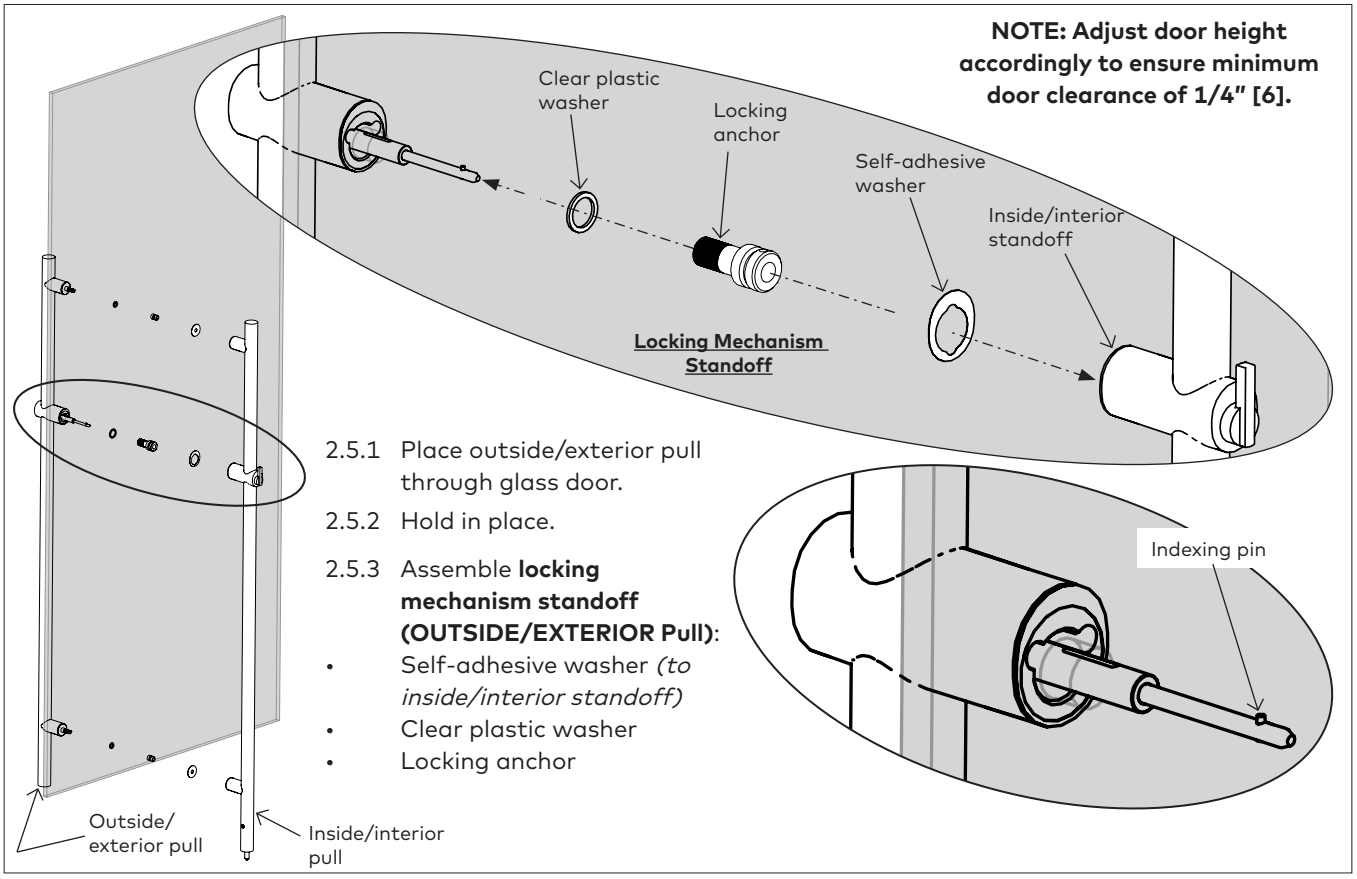
2.4.3 Measure and cut included cylinder screws to appropriate length.

- *Length = 2-5/8" - X [67 - X]*

2.4.4 Secure cylinder with screws.

2.5 Secure INSIDE/INTERIOR pull to glass door panel

Fig 5

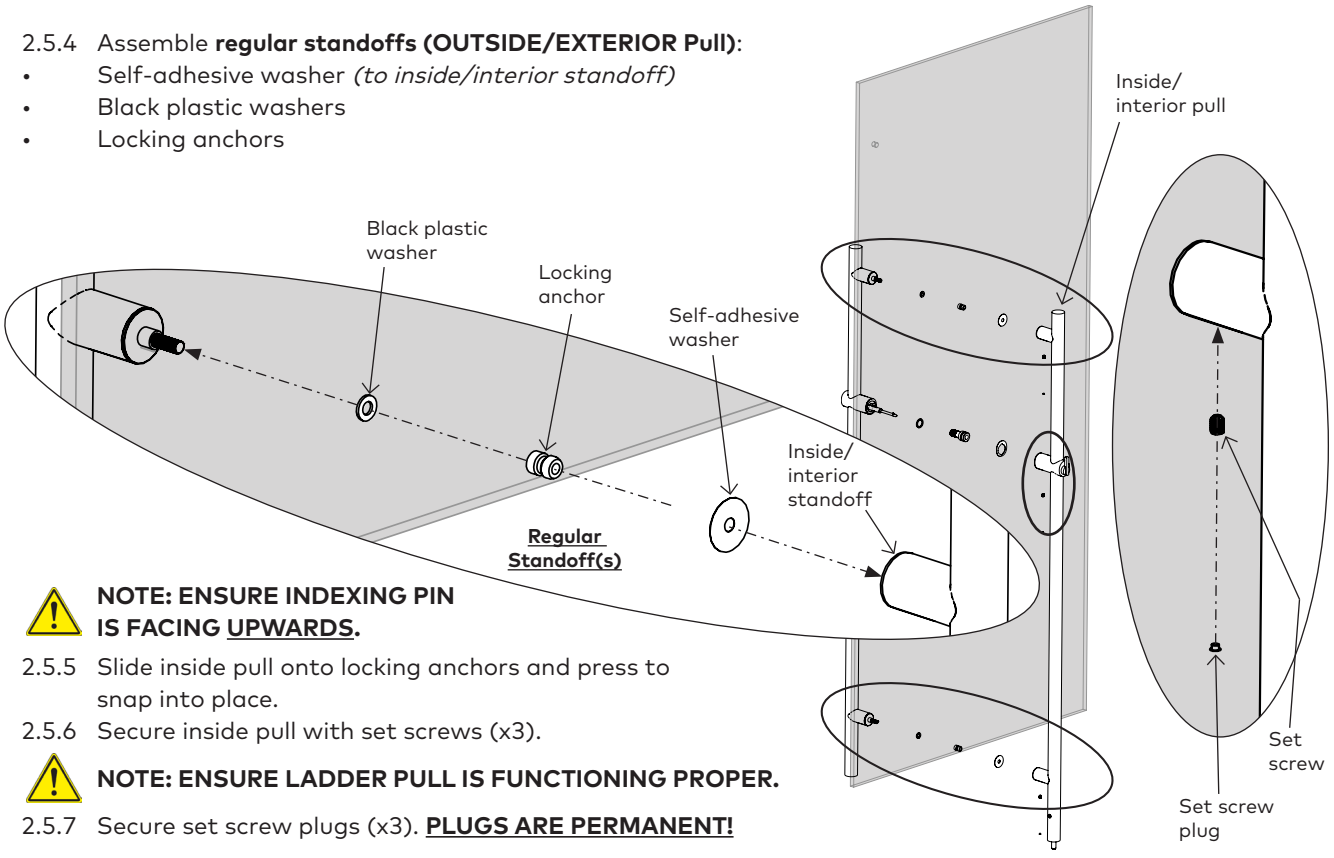


2.5.1 Place outside/exterior pull through glass door.

2.5.2 Hold in place.

2.5.3 Assemble **locking mechanism standoff (OUTSIDE/EXTERIOR Pull)**:

- Self-adhesive washer *(to inside/interior standoff)*
- Clear plastic washer
- Locking anchor



2.5.4 Assemble **regular standoffs (OUTSIDE/EXTERIOR Pull)**:

- Self-adhesive washer *(to inside/interior standoff)*
- Black plastic washers
- Locking anchors

NOTE: ENSURE INDEXING PIN IS FACING UPWARDS.

2.5.5 Slide inside pull onto locking anchors and press to snap into place.

2.5.6 Secure inside pull with set screws (x3).

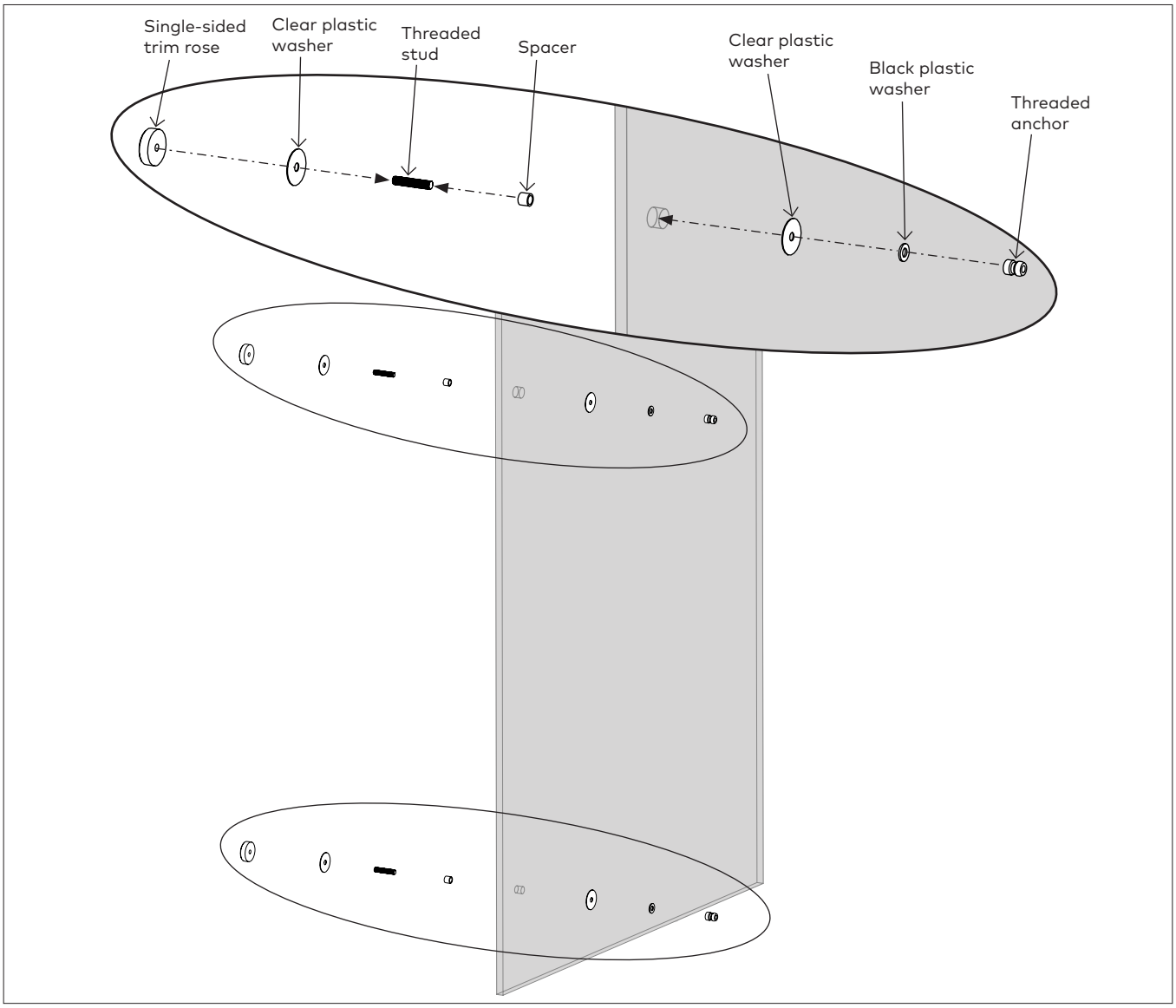
NOTE: ENSURE LADDER PULL IS FUNCTIONING PROPER.

2.5.7 Secure set screw plugs (x3). **PLUGS ARE PERMANENT!**

3 Installation: Single-sided top locking ladder pulls

3.1 Install fasteners

Fig 6



3.1.1 **Thread parts for outside of door**:

- Single-sided trim rose
- Clear plastic washers
- Threaded stud
- Spacer

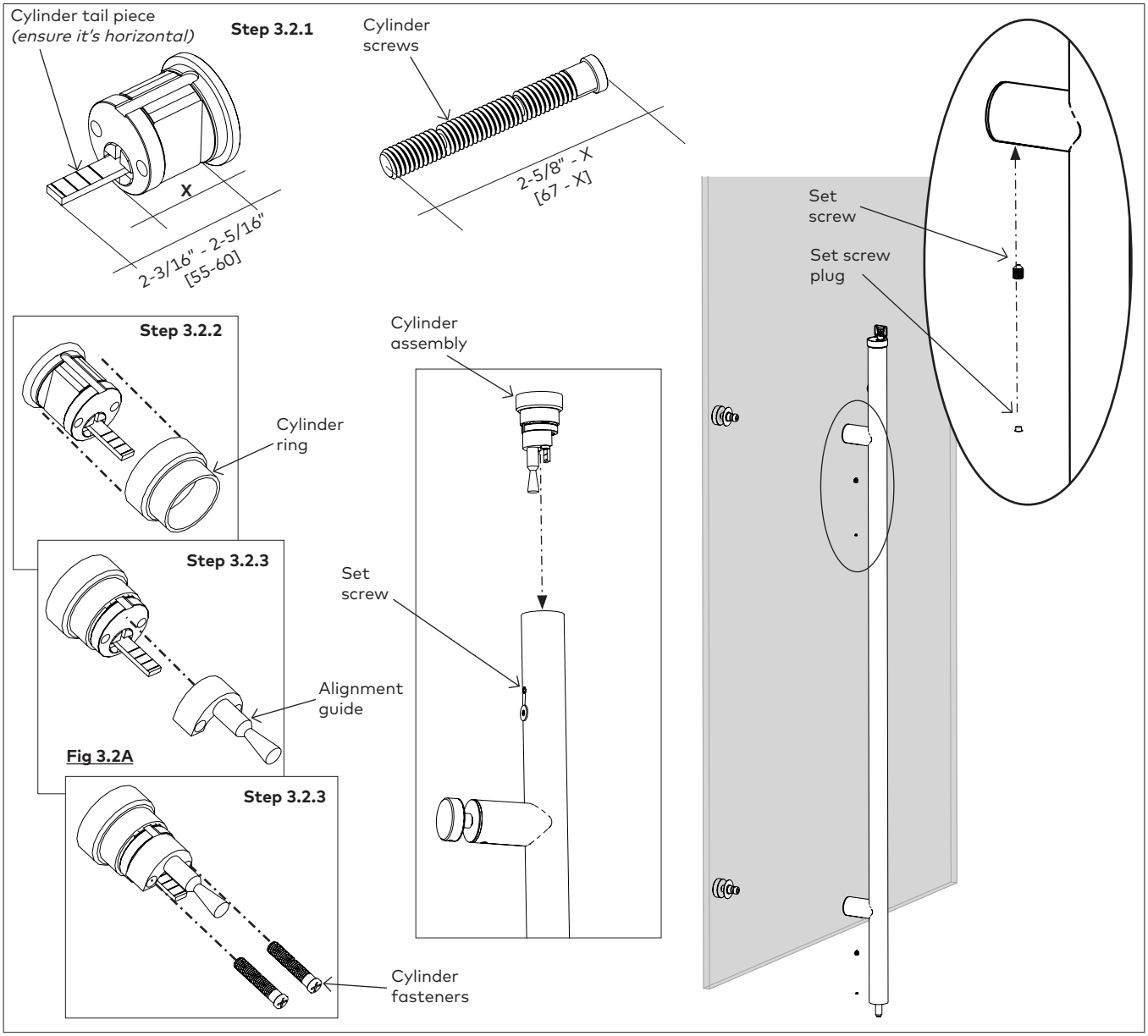
3.1.2 Feed assembly through outside of glass door.

3.1.3 **Thread parts for inside of door**:

- Clear plastic washers
- Black plastic washers
- Threaded anchors

3.2 Install cylinder and pull

Fig 7



Assemble/install cylinder:

3.2.1 Measure and cut to appropriate length:
- Cylinder tail piece
- Included cylinder screws
  Length = 2-5/8" - X [67 - X]

3.2.2 Place cylinder through cylinder ring.

3.2.3 Secure alignment guide to bottom of cylinder with included screws.

3.2.4 Insert cylinder assembly into top of pull.

NOTE: Ensure guide lines up with hole inside pull.
NOTE: Ensure tail piece engages with locking mechanism and is oriented properly. See Fig 3.2A above.

3.2.5 Tighten set screw to secure cylinder.

Install pull:

3.2.6 Slide inside pull onto locking anchors and press to snap together.

3.2.7 Secure pull with set screws (x2).

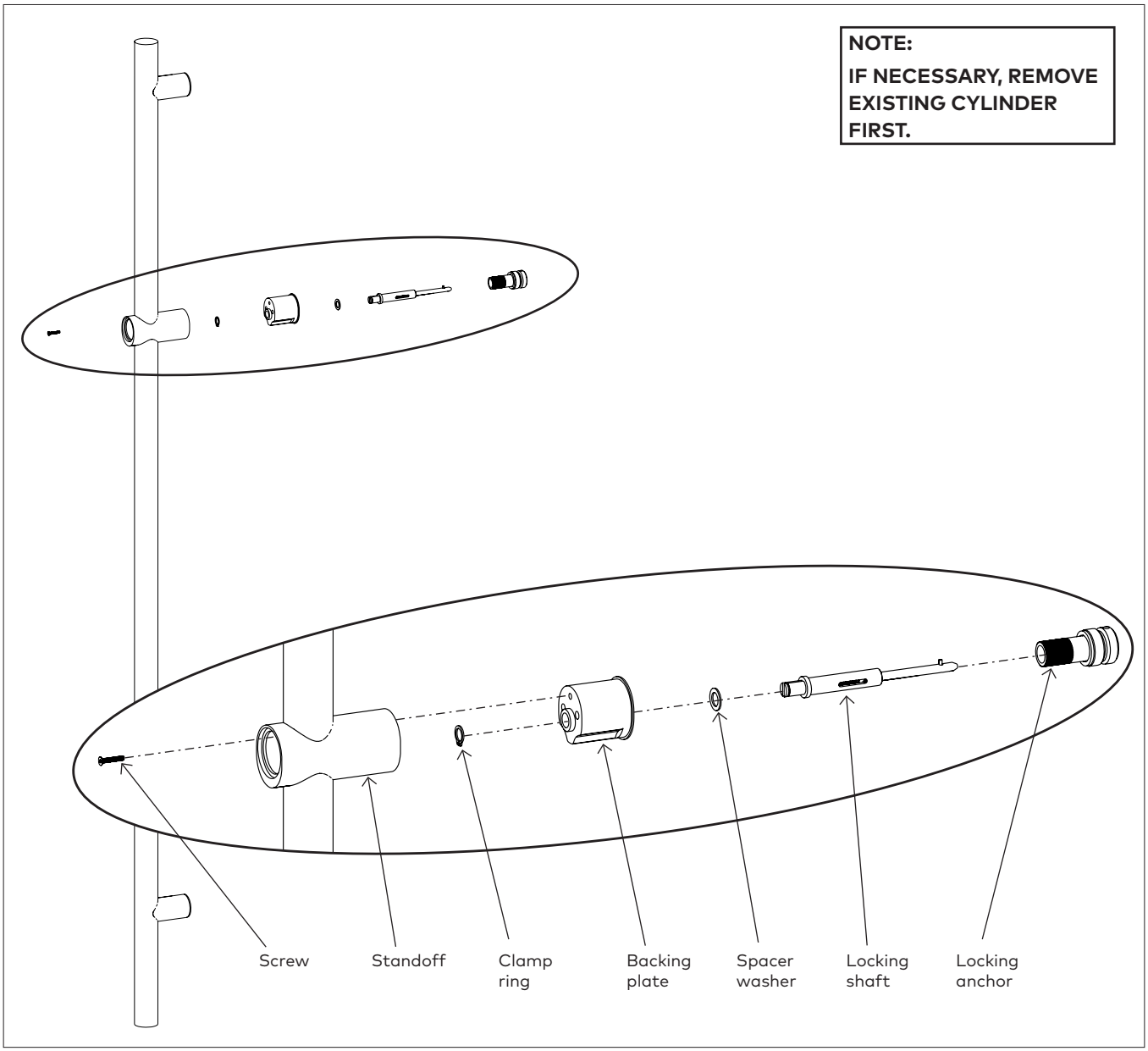
NOTE: ENSURE LADDER PULL IS FUNCTIONING PROPERLY.

3.2.8 Secure set screws plugs (x2).
PLUGS ARE PERMANENT!

4 Installation: Replace/change locking mechanism

4.1 Locking mechanism

Fig 8



4.1.1 Remove screw from backing plate.

4.1.2 Remove the following from the standoff:

- Locking anchor
- Locking shaft/spacer washer/backing plate/ clamp ring (as one assembly)

4.1.3 Set the following aside:

- Old locking shaft
- Old spacer washer
- Old clamp ring

4.1.4 Insert new spacer washer and new locking shaft into backing plate.

4.1.5 Secure new clamp ring to new locking shaft.

4.1.6 Reinsert all new parts into standoff.

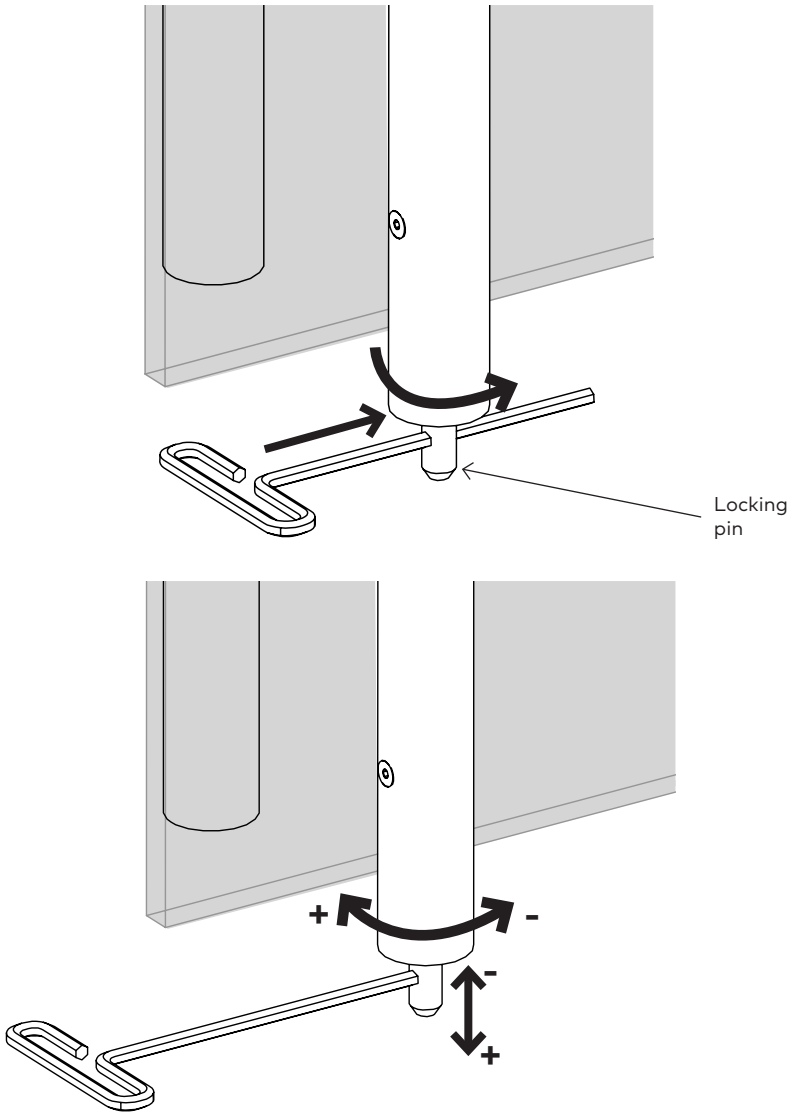
4.1.7 Resecure screw to backing plate.

4.1.8 Rethread locking anchor.

5 Adjustments

5.1 Adjusting the locking pin

Fig 9

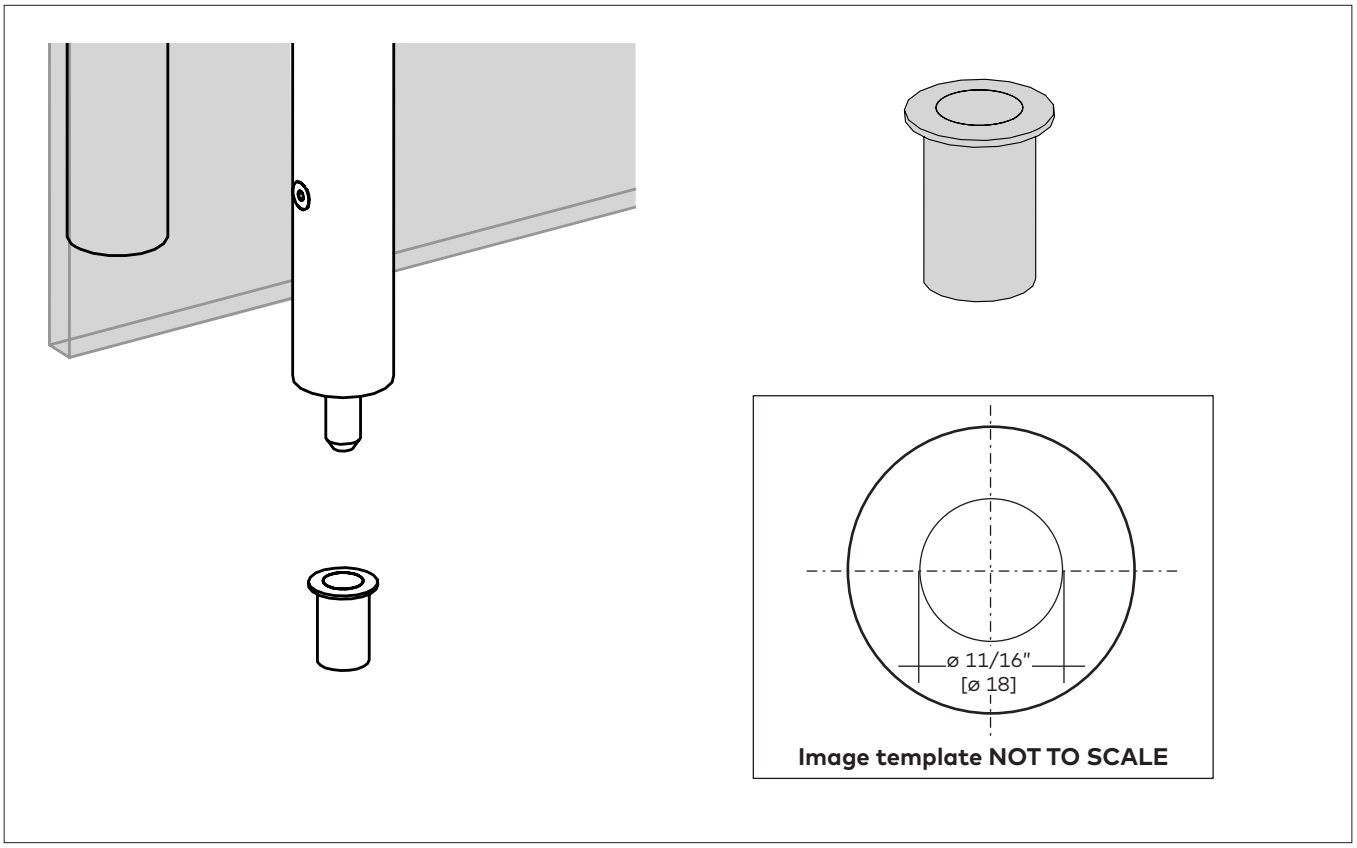


5.1.1 Partially insert T-handle tool into outer housing of locking pin.
5.1.2 Slowly turn counter-clockwise until tool aligns with hole inside housing.
5.1.3 Slide tool through locking pin.
5.1.4 Adjust pin height accordingly:
- To **extend** the **pin**: Turn **clockwise**
- To **retract** the **pin**: Turn **counter-clockwise**

6 Installation: Dust proof strike

6.1 Install dust proof strike

Fig 10



3.2.1 Close door fully.
3.2.2 Partially extend locking pin.
3.2.3 Align and mark center of hole on flooring surface.
3.2.4 Drill a 11/16" [18] diameter hole, 1-5/8" [40] deep.
3.2.5 Clean hole of debris.
3.2.6 Insert dust proof strike into hole.
3.2.7 Ensure strike functions properly.

dormakaba
DORMA USA, Inc.
1 Dorma Drive, Drawer AC
Reamstown, PA 17567
USA
T: 717-336-3881
F: 717-336-2106