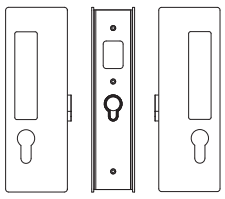
CL400® Magnetic

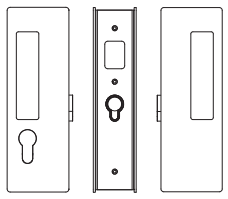
1

Installation Instructions for CAVILOCK CL400 Magnetic Key Locking Handle

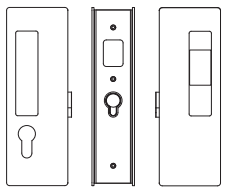
CL400 Key/Key Locking Handle



CL400 Key One Side Locking Handle



CL400 Key/Snib Locking Handle



Before you Start:

1. This handle has been manufactured to specifications which **cannot** be altered by the installer. These include:

- **a Handle type:** the CL400 handle is available in *Passage, Privacy, Key Locking* and *Bi-Parting* versions. You have purchased the ***Key Locking*** version.
- **b Configuration:** the Key Locking handle configurations include; *Key/Key, Key One Side* and *Key/Snib.*
- **c Handing**
- **d Door thickness range:** the CL400 handle is available in four door thickness ranges. These are: *34-40mm, 40-46mm, 46-52mm and 52-58mm (1-3/8" to 1-9/16", 1-5/8" to 1-3/4", 1-13/16" to 2" and 2-1/16" to 2-1/4").*
- **e Security:** the CL400 handle varies in security depending on the version and configuration. Key Locking handles are supplied with a raised shroud, which provides a greater level of security than those with a flush shroud. However, it is important to note that **the CL400 handle should not be installed in situations where a high level of security is required, e.g. external entry points or high security internal doorways.**

Raised shroud: offers a greater level of security.

Flush shroud: decreased security.

Refer to the information printed on the *Side Handle* and *Chassis* boxes to ensure you have purchased a handle with the correct specifications for your situation.
If the specifications are incorrect you will need to exchange the handle.

2. Component drawings have been provided. Please familiarise yourself with the components and check the package to ensure nothing is missing. **Note:** *Components may vary slightly between configurations.*

3. To ensure the handle latches accurately, it is essential that the door is adjusted for height and is parallel with the closing jamb when closed **before** installing the handle and striker.

4. This is a metric handle. **Accurate measurements are shown in millimetres. Conversions to inches are approximate.**

WARNING: THE STRIKER CONTAINS A STRONG MAGNET
IRON FILINGS - Magnets will attract shavings from iron or ferrous metals which may be hard to remove. Keep the striker a safe distance away from these materials.
DANGER FOR CHILDREN - Magnets may cause serious injury if swallowed. Keep out of reach of children.
CRUSHING, BLISTERS AND CUTS - Fingers may become caught between magnets resulting in crushing, blisters or cuts.
BREAKING OR CHIPPING - It is possible that magnets could chip or shatter on contact, resulting in chips flying off at high speed into someone's eye. Chips can also be very sharp - treat them as you would broken glass.
MAGNETICALLY SENSITIVE ITEMS - Keep a safe distance between the magnet and all objects that can be damaged by magnetism (e.g. mechanical watches, pacemakers, cell phones etc.).
DISPOSAL - Magnets should be disposed of carefully and in accordance with your local regulations.

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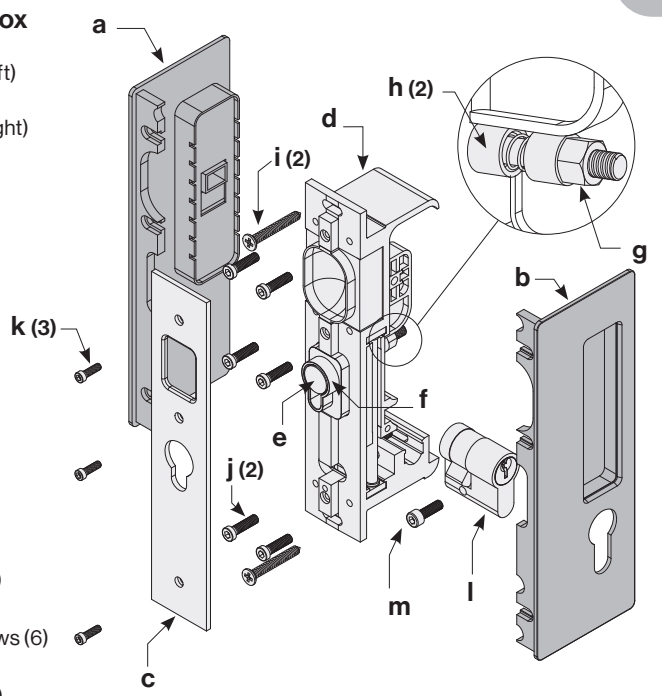
Component Drawings

Key Locking Side Handle Box

- **a** Key Locking Side Handle (Left)
- **b** Key Locking Side Handle (Right)

Key Locking Chassis Box

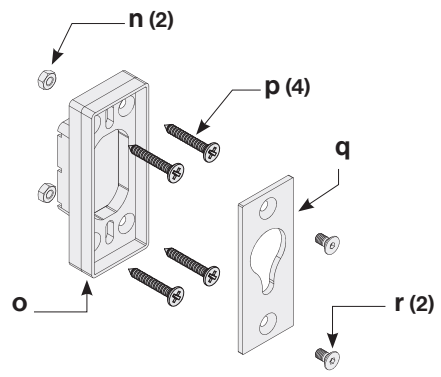
- **c** Key Locking Face Plate
- **d** Key Locking Chassis
- **e** Plunger
- **f** Raised Shroud
- **g** Plunger Nut
- **h** Spring Reservoirs (2)
- **i** Chassis Mounting Screws (2)
- **j** Side Handle to Chassis Screws (6)
- **k** Handle Face Plate Screws (3)
- **l** Locking Cylinder
- **m** Locking Cylinder Screw



Note: Components will vary between the 'Key One Side', 'Key/Key' and 'Key/Snib' versions.

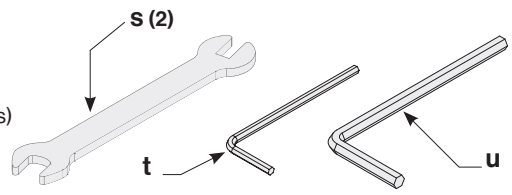
Striker Box

- **n** Striker Nuts (2)
- **o** Striker Body
- **p** Striker Mounting Wood Screws (4)
- **q** Locking Striker Face Plate
- **r** Striker Face Plate Screws (2)



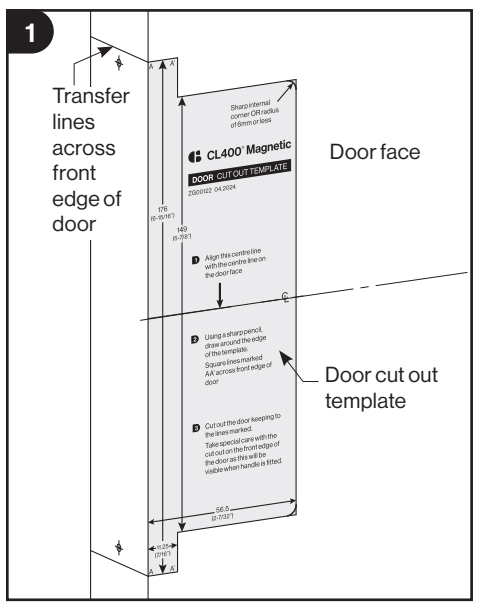
Tools (contained in Key Locking Chassis Box)

- **s** Plunger Adjustment Spanners (2)
- **t** CL400 Allen Key (used for all machine screws)
- **u** Locking Cylinder Allen Key

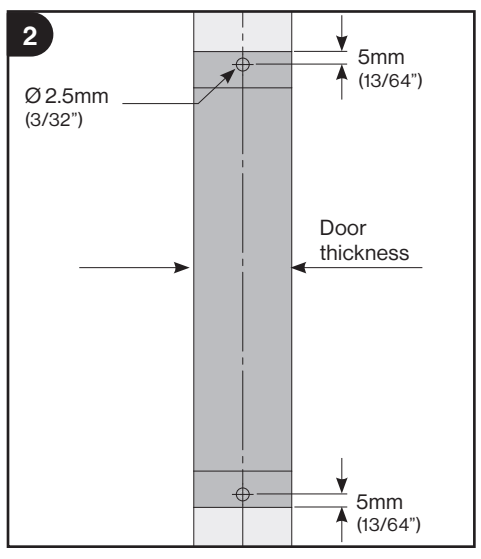


Door Preparation

1. Mark a line on the face of the door where the centre of the handle is to be positioned. Align the centre line on the *door cut out template* with the centre line on the door. Follow the instructions on the template.



2. Mark two holes in the centre of the door thickness in the positions shown. Using these marks, drill two 2.5mm (3/32") diameter holes to a depth of 35mm (1-3/8").



Fitting the Chassis

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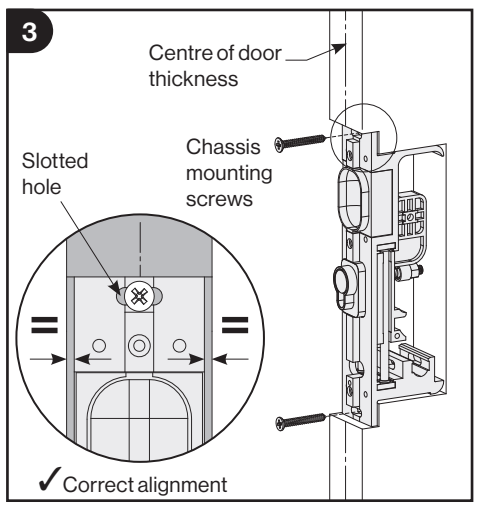
3. Remove the *face plate screw* and *face plate* from the *chassis.* Align the chassis with the centre of the door thickness.

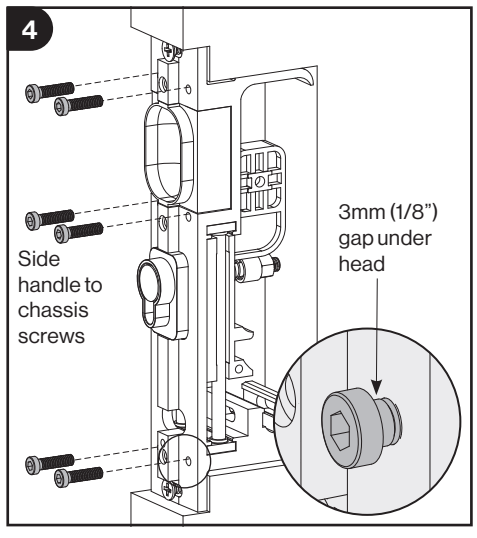
Screw the chassis to the door (using the 2x *chassis mounting screws*) through the slotted holes at the top and bottom of the chassis.

DO NOT fully tighten the screws.

Realign the chassis with the centre of the door thickness. When happy with the chassis position, fully tighten the screws.

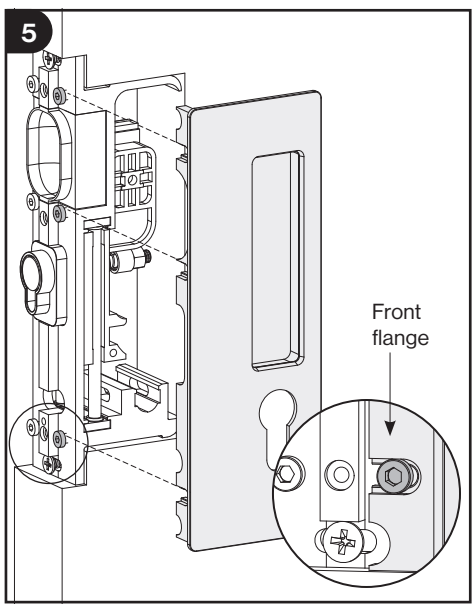


4. Fit the 6x *side handle to chassis screws.* **Leave a 3mm gap** (1/8") between the underside of the screw head and the chassis.



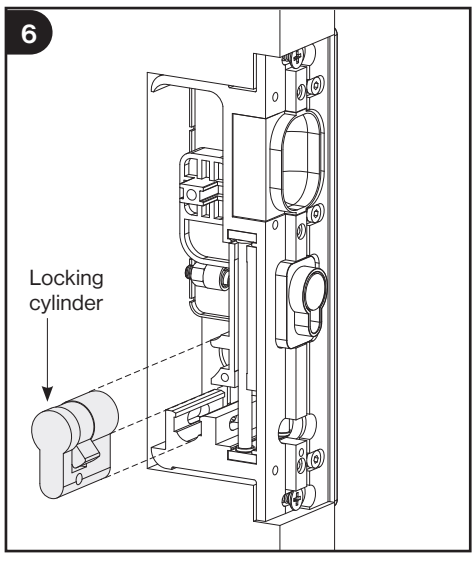
Fitting the First Side Handle

5. Fit the *key locking side handle* (with the keyhole cut out) to the chassis by sliding the front flange of the handle under the heads of the 3x *side handle to chassis screws* (If installing a key/key handle install **ONE** of the side handles only). Tighten the screws.



Fitting the Locking Cylinder

6. Insert the *locking cylinder* into the chassis.



Fitting the Locking Cylinder

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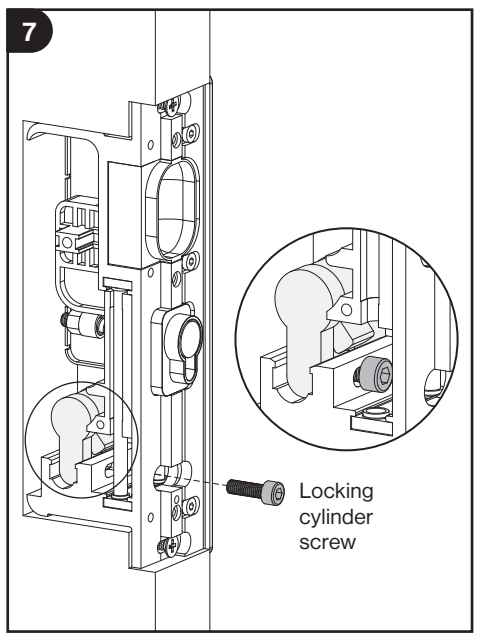
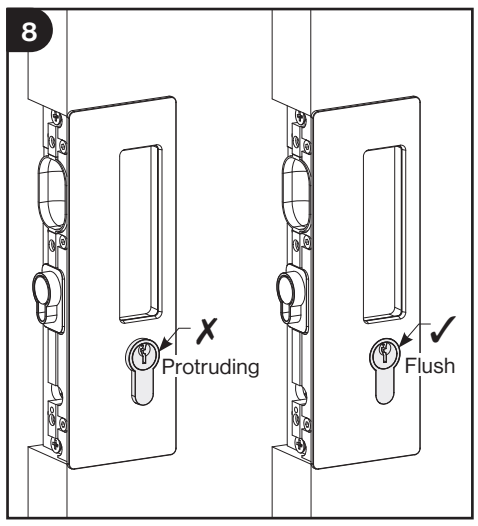
7. Secure the locking cylinder using the *locking cylinder screw.* **DO NOT** fully tighten the screw.



8. Slide the locking cylinder until it is flush with the face of the side handle. Fully tighten the locking cylinder screw.

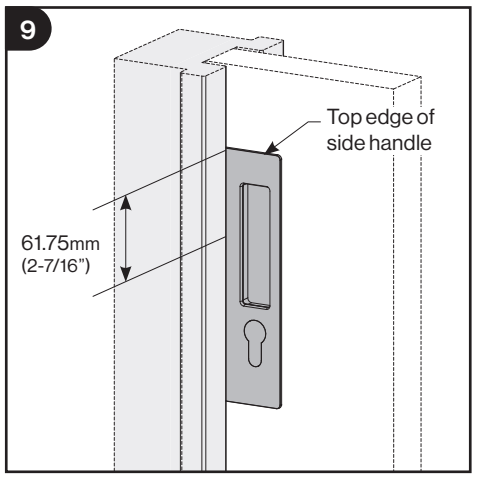


Go to page 5 (overleaf)

Fitting the Striker

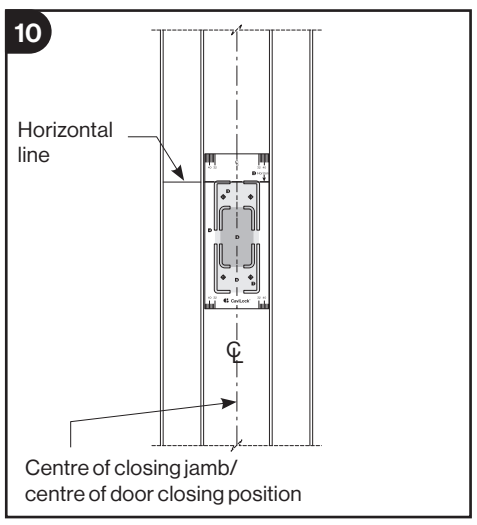
9. Close the door and mark a horizontal line on the closing jamb 61.75mm (2-7/16") down from the top edge of the side handle.

Note: these instructions are demonstrated on a recessed closing jamb, however, the same method applies to a flat closing jamb.



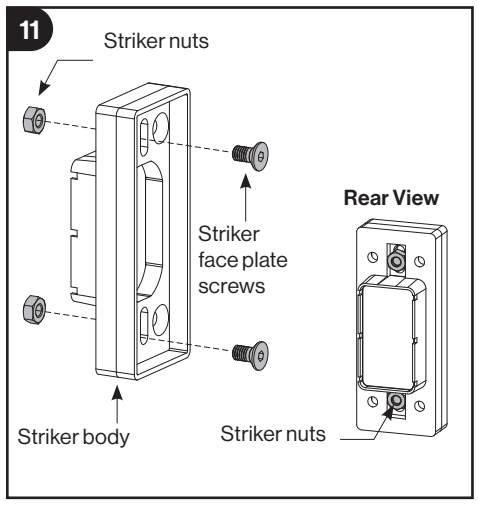
10. Open the door. Transfer the horizontal line across the centre of the closing jamb. This line represents the top of the striker cut out.

A double-sided *striker cut out template* has been provided. Use the '**RECESSED striker template**' and instructions to router out the recess in the closing jamb.

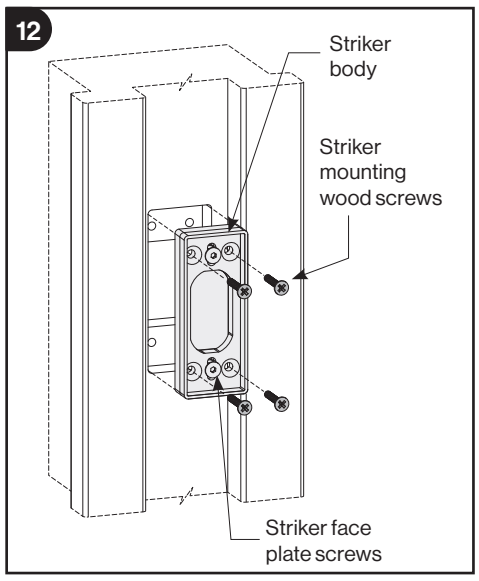


11. Remove the *striker* from its box. Remove the *striker face plate* from the *striker body.* Insert the 2x *striker nuts* into the recess in the back of the striker body.

Insert the 2x *striker face plate screws* through the slot in the front face of the striker body and into the striker nuts. Loosely tighten the screws.

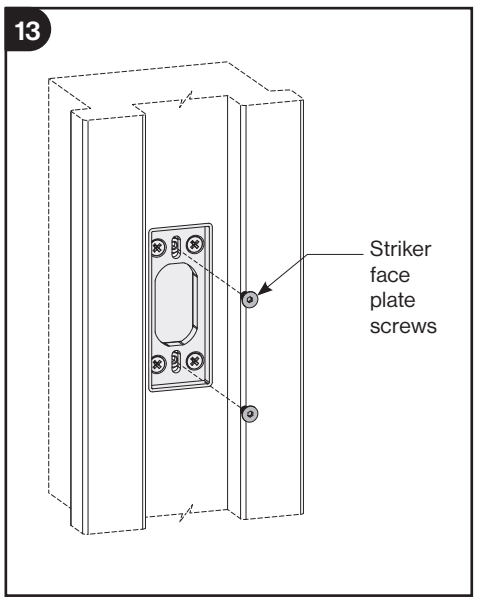


12. Insert the striker body, with the striker face plate screws and the striker nuts attached, into the cut out in the closing jamb.
Screw the 4x *striker mounting wood screws* into the closing jamb.

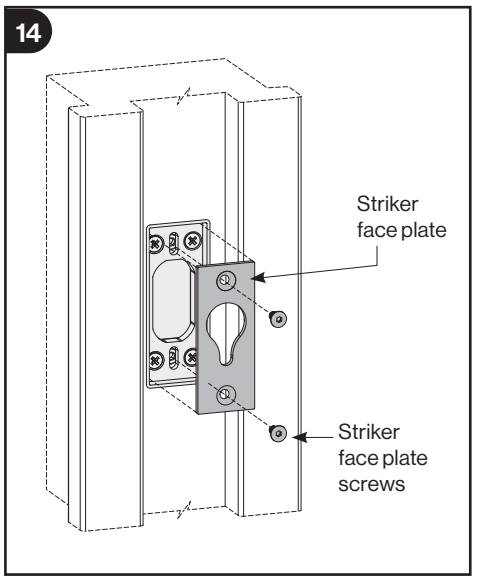


Fitting the Striker

13. Remove the striker face plate screws.
The striker nuts are now trapped in position.

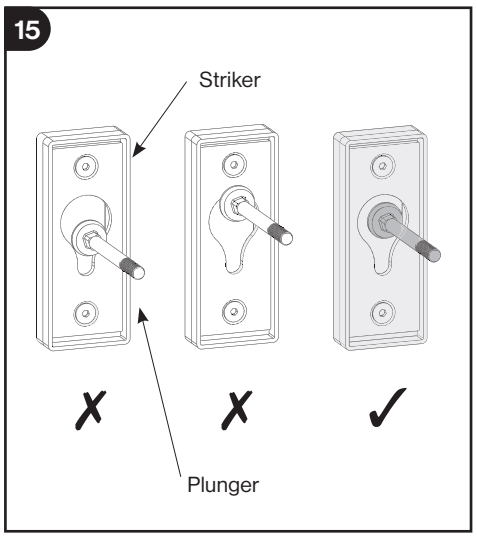


14. Position the striker face plate in the centre of the striker body - this may need to be adjusted in the steps following.
Insert the striker face plate screws and loosely tighten.

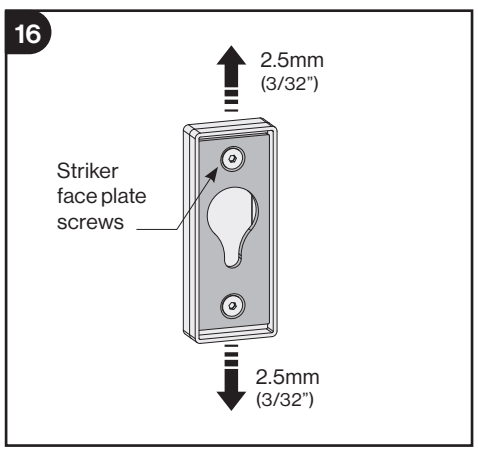


15. Close the door. When the striker is fitted correctly the magnet will draw the plunger forward. If this does not happen the striker is misaligned with the plunger (see below).

If the alignment is correct, tighten the screws and skip to **Step 17;** otherwise continue to **Step 16.**



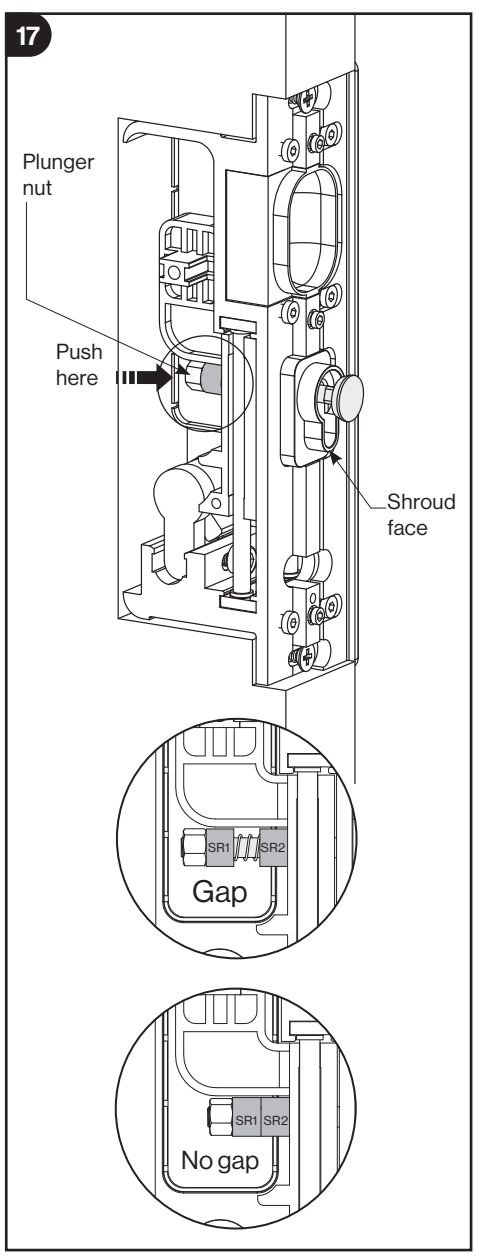
16. The striker allows 2.5mm (3/32") of adjustment in each direction when the striker face plate is fitted in the centre of the striker body.
To adjust the face plate position, loosen the striker face plate screws slightly and adjust the face plate up or down to allow the plunger to penetrate the striker face plate. If the plunger still fails to penetrate the striker face plate, the door height may need to be adjusted.



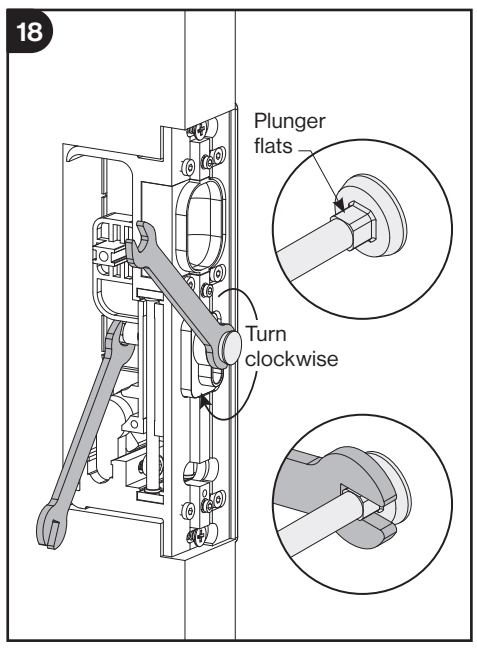
Adjusting the Plunger

17. Manually push the plunger forward until there is no gap between *spring reservoir one* (SR1) and *spring reservoir two* (SR2).

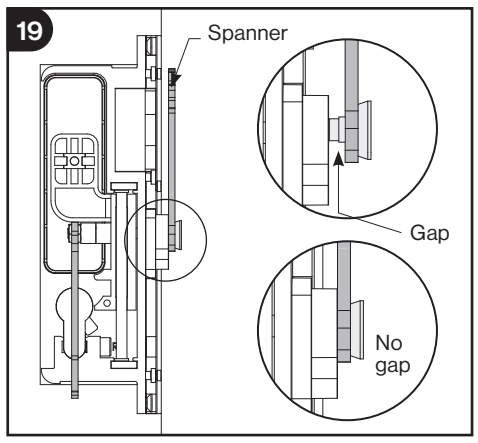
Restrain the *plunger nut* using the **large** end of one of the two identical supplied *spanners.*



18. Place the **small** end of the second spanner across the flats under the head of the *plunger.* Keep the spanner restraining the plunger nut **stationary** while turning the second spanner **clockwise**.



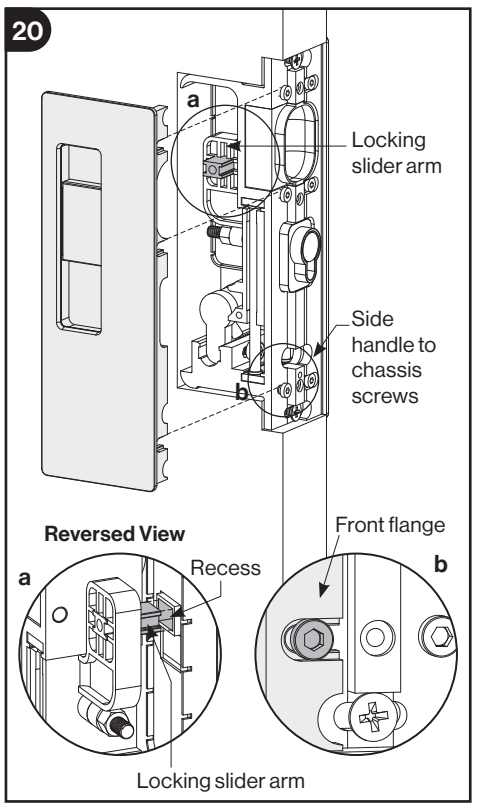
19. Continue to turn the spanner until there is no longer a gap between the spanner and the shroud face.
Now turn the spanner **anti clockwise** half a turn.
The plunger should now be adjusted correctly.
Check the action by sliding the door closed and locking it using the key. Adjust if necessary.



Fitting the Remaining Side Handle

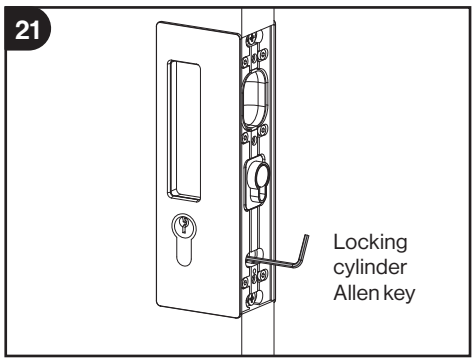
20. Fit the remaining side handle to the chassis (using the 3x *side handle to chassis screws*) by sliding the front flange of the handle under the heads of the three screws. Tighten the screws.

If the side handle contains a snib you will need to align the recess in the back of the snib button with the arm of the locking slider first.



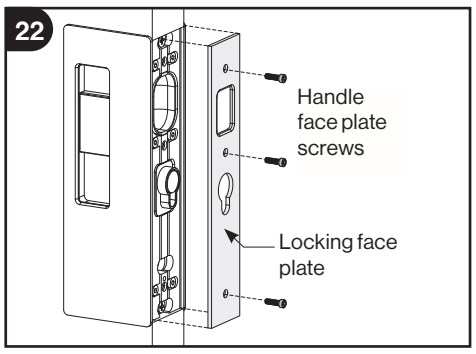
Adjusting the Cylinder

21. If installing a 'Key/Key' handle you may need to adjust the position of the locking cylinder. To do so, insert the *locking cylinder Allen key* through the slotted hole in the chassis. Loosen the screw and slide the cylinder into the desired position. Tighten the screw.



Fitting the Face Plate

22. Fit the locking face plate to the chassis using the 3x *handle face plate screws.*



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NZ Patent No. 733386, 628616; Aust Patent No. 2014298044; US Patent No. 10036185