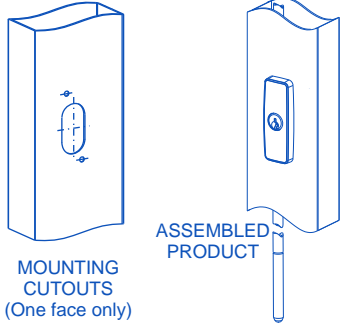


## DOUBLE SHOOT-BOLT

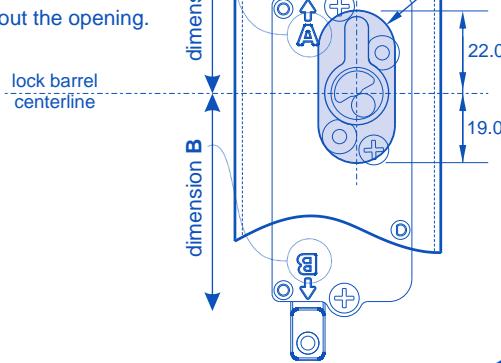


### Illustrated fitting instructions



## 1. Prepare the cutouts

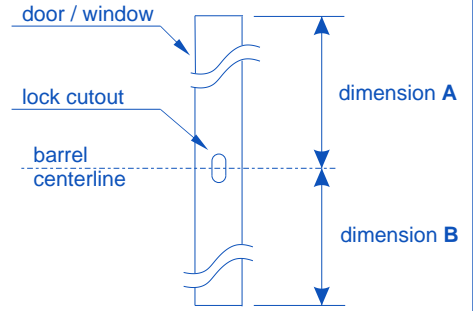
- Mark the position of the cylinder barrel on your section.  
NOTE: Make sure to equal or exceed the minimum dimensions shown below.  
NOTE: The orientation of the lock is important with regard to the cutout dimensions, and the rod preparation. Be sure to note whether the "A" or "B" symbol on the lockcase is facing towards the top of the door/window.



- Cut out the opening.

## 2. Calculate Tube length

- Use the equations below to calculate the length of **drive tube A** and **drive tube B** corresponding to dimension A and dimension B (from Step 1).



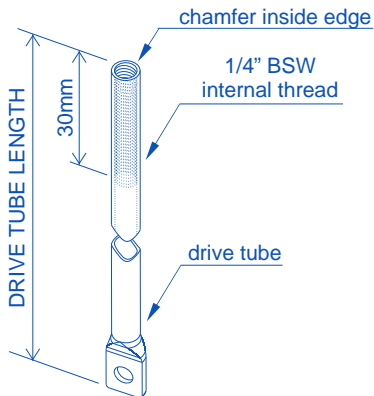
$$\text{DRIVE TUBE A} = \text{dimension A} - 147\text{mm}$$

$$\text{DRIVE TUBE B} = \text{dimension B} - 172\text{mm}$$

(tube length is measured from end to end - see Step 3)

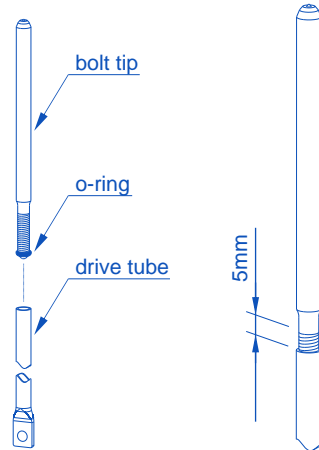
## 3. Cut and thread Tubes

- Carefully cut the tubes to length.
- Deburr the cut ends of the two tubes.
- Use a **1/4" BSW** thread tap to cut an internal thread to a depth of 30mm (do this to both tubes).
- Chamfer** the inside edge of the tube using a countersink or large drill bit.



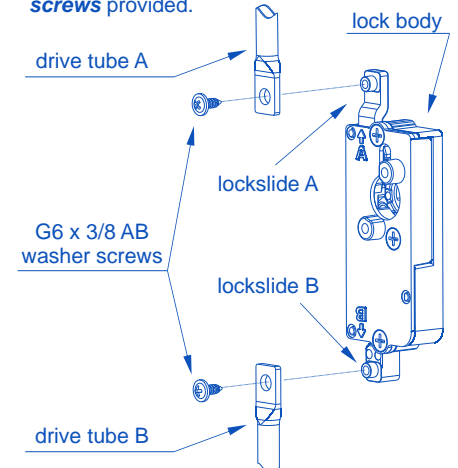
## 4. Fit Bolt Tips

- Ensure the black **o-ring** is in position on each bolt tip as shown below.
- Thread the two **bolt tips** into the two **drive tubes** until there is **5mm** of thread still visible on the **bolt tips**.  
NOTE: This provides space for fine adjustment once the window or door is fitted.



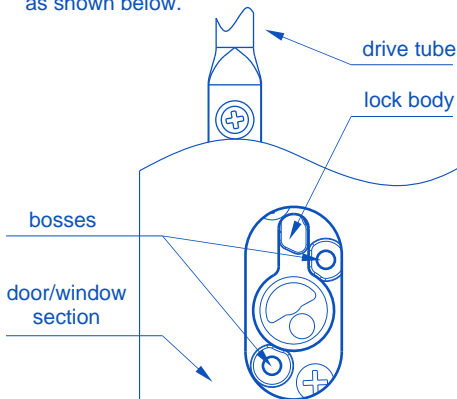
## 5. Attach Tubes to Lock

- Place the **drive tubes** onto the corresponding bosses of the **lock slides** as shown.  
NOTE: Ensure **drive tube A** is assembled onto **lockslide A**, and **drive tube B** is assembled onto **lockslide B**.
- Secure using the two **G6 x 3/8 AB washer screws** provided.



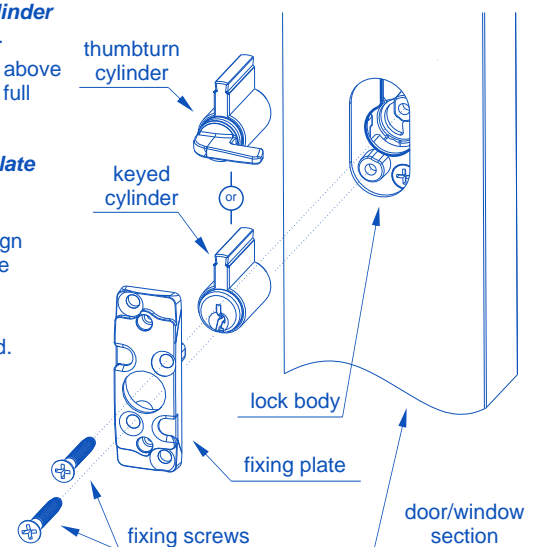
## 6. Insert Lock into section

- Slide the **lock assembly** into the door/window **section**.
- Position the assembly so the two bosses on the **lock body** are visible through the cutout as shown below.



## 7. Attach Fixing Plate and Cylinder to Lockbody

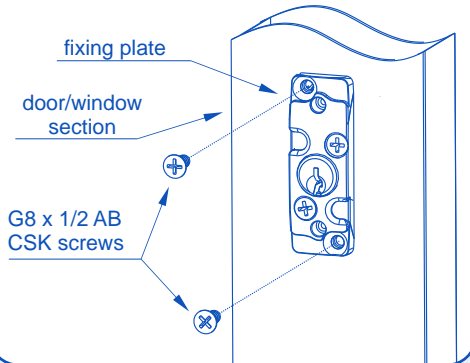
- Install the **keyed cylinder** or **thumbturn cylinder** into the **cylinder opening** in the **lock body**.
- If using the **thumbturn cylinder**, install it as above then rotate the **thumbturn lever** through its full movement (180°) and back to a position at 90° to the **cylinder** as shown.  
NOTE: You will need to position the **fixing plate** by rotating it over the **thumbturn lever** from the side.
- Fit the **fixing plate** over the **cylinder** and align the two bosses on the **fixing plate** with those on the **lock body**.
- Secure the **fixing plate** to the **lock body** using the two **G8 x 1 fixing screws** provided.
- TEST:** Use **key** or **thumbturn lever** to test the operation of the lock. If the **drive rods** do not extend and retract properly, check your assembly and repeat the steps above.



## 8.

### Secure to section

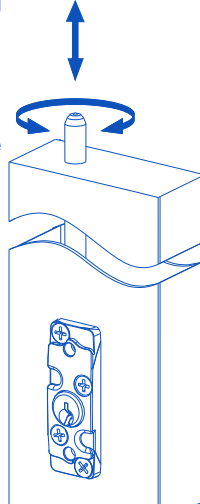
- 1 Ensure the **fixing plate** is aligned correctly.
  - 2 Carefully drill two f3.5mm holes through the countersunk holes in the fixing plate and through the wall of the door/window section.
  - 3 Secure the **fixing plate** to the aluminium door/window section using the two **G8 x 1/2 AB CSK screws** provided.
- NOTE:** Do not over-tighten.



## 9.

### Adjust Bolt Tips

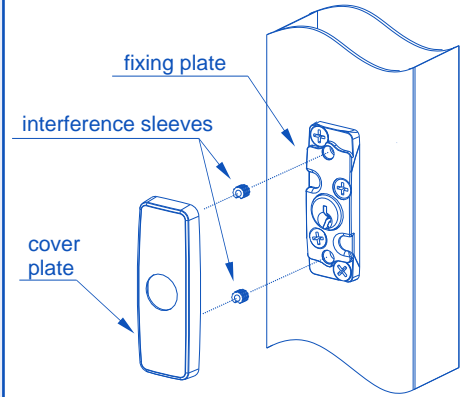
- 1 Check the position and operating range of the **bolt tips**.
  - 2 If necessary, the **bolt tips** can be adjusted up to 5mm inward or outward from the starting position. This is done by threading or unthreading the **bolt tip** on the **drive tube**.
- NOTE:** This should be no more than 4 complete turns in either direction.



## 10.

### Attach Cover Plate

- 1 Fit the two black rubber **interference sleeves** into the two holes on the **fixing plate**.
  - 2 Press the **cover plate** onto the **fixing plate**.
- NOTE:** This step can be done after the door/window is installed in the building to protect the cover plate from being damaged.



## Double Shoot-Bolt - CARE & MAINTENANCE

### Installation

The product must be installed according to the instructions included in the product packaging and the door/window should be apertured according to the door/window "cut-out" dimensions and tolerances shown.

Prior to fitting ensure that:

- Doors and windows stored on site are stored in a clean dry area free from cement, lime, paint, acid etc.

During fitting of the lock ensure that :

- No metal swarf or other contaminants enter the lock body.
- The fixing screws do not damage the product finish.

After installation of the door/window ensure that:

- The door/window is correctly adjusted with the correct clearances.
- The bolt tips operate freely with minimal effort.
- The door/window is protected from building fall-out such as wet plaster, mortar, paint and welding splatter.

If the door becomes contaminated:

- Do not paint the lock body or faceplate.
- Remove wet plaster, cement, mortar and other droppings immediately, using ample clean water and a sponge or rag, to avoid permanent staining or scratching of the product finish. If removal is delayed and scraping becomes necessary the surface finish may suffer.

### Maintenance

Annually inspect the door or window to confirm that it operates with the correct clearances, closes and opens without obstruction and confirm that the bolt tips freely enter the receiving aperture when the door or window is closed - adjust the door/window if necessary.

Annually check that when the door/window is closed, the lock can be locked by key and by the snib lever.

NB : The lock assembly has been lubricated for life, and should not be disassembled by the user.

### Cleaning Powder Coatings

Every six months, powder coated surfaces should be cleaned to protect the finish. However, in areas where pollutants are more prevalent, especially in coastal or industrial regions, cleaning should be carried out every two to three months.

To clean the powder coated surface:

1. Carefully remove any loose deposits with a wet sponge.
2. Use a soft brush (non abrasive) or cloth and a mild household detergent solution to remove dust, salt and other deposits. Do not use steel wool, scrapers, scouring liquids or powders to remove deposits as these permanently scratch the coating surface.
3. Rinse off with clean fresh water.

### Cleaning Chrome, Satin Chrome, Gold and Brass Finishes

Plated finishes are susceptible to tarnishing if they come into contact with moisture, wet paint, or water vapour. All plated finishes should be coated with a non-abrasive furniture or car wax immediately after installation. Plated finishes should be regularly wiped with a non-abrasive furniture or car wax, taking care not to scratch any protective finishes that are employed to protect the surface and prevent tarnishing.

## Double Shoot-Bolt - MAINTENANCE LOG

In order to protect your warranty, record all maintenance activity in the following log:

<b>Address of Building :</b>		
<b>Name of Door/Window:</b>		
Date	Activity	Signed

MADE IN AUSTRALIA BY



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