Int/External Splice only Flexibox - Installation

Description

The Flexibox is for Fibre to the Premises [FTTP] applications. The box houses splice and storage for excess fibre element lengths.

This version of the box can accept up to 24 cables via 8 entry ports using both the top and bottom faces of the box, with space for up to 144 fibre splices.

The box can be supplied with excess storage (when a loop through is not required) or a loop storage basket for a pass through and splice off scenario.

Tools & Additional Items Required

Tools:

Cable /tube stripping tools, adjustable spanner (optional), electric drill, M5 drill bit, pozi screwdriver, fibre splicing equipment, hammer.

Additional items	Part Number
Splice protectors (12 x2.2mm)	XKTSC00050
Single way gland – 5 to 9mm	XKTSC02335
Single way gland – 6 to 12mm	XKTSC02471
Dual way gland – 4 to 6mm	XKTSC02542
3-way gland – 2.5 to 4.5mm	XKTSC02774

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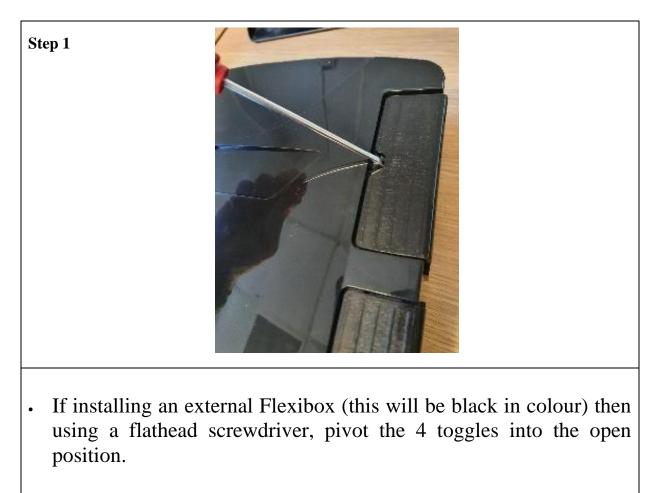
2. Box Installation

- \succ How to mount the box to a wall
- \succ How to mount the box to a pole
- 3. Input/Output Cable Installation
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 - How to route the fibres around the box
 - Adding a cable to a pre-existing cable gland

4. Fibre routing

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- How to store excess fibre lengths around the box
- 5. Box closedown and secure
 - How to close and secure the box

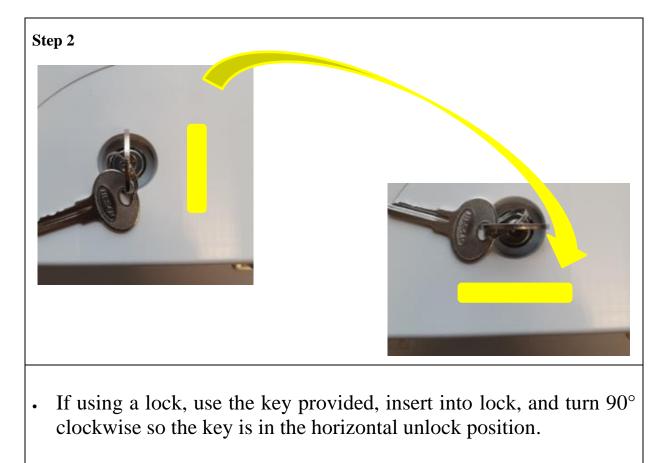
1.0 BOX OPENING



• For an internal Flexibox, skip to step 2.

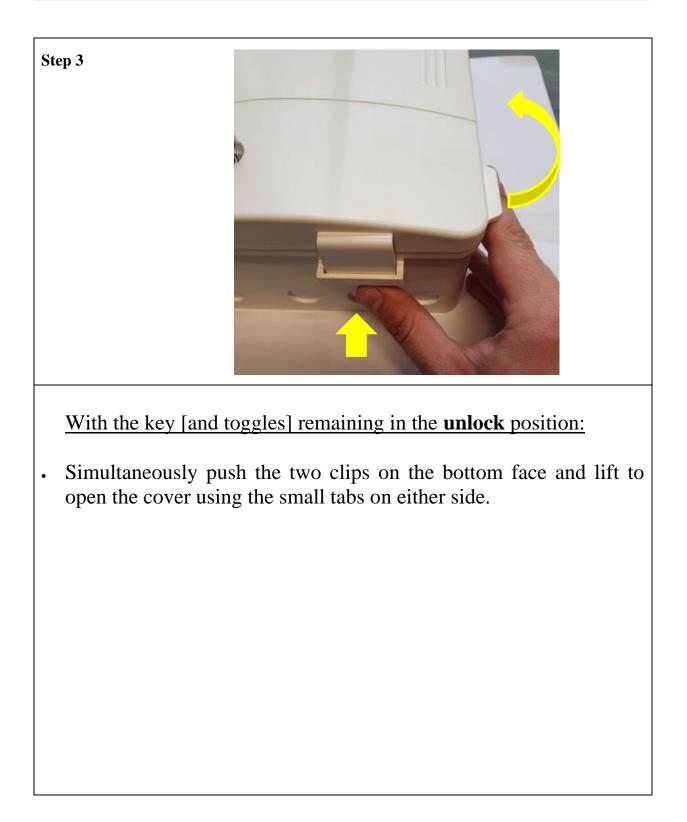
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1.0 BOX OPENING

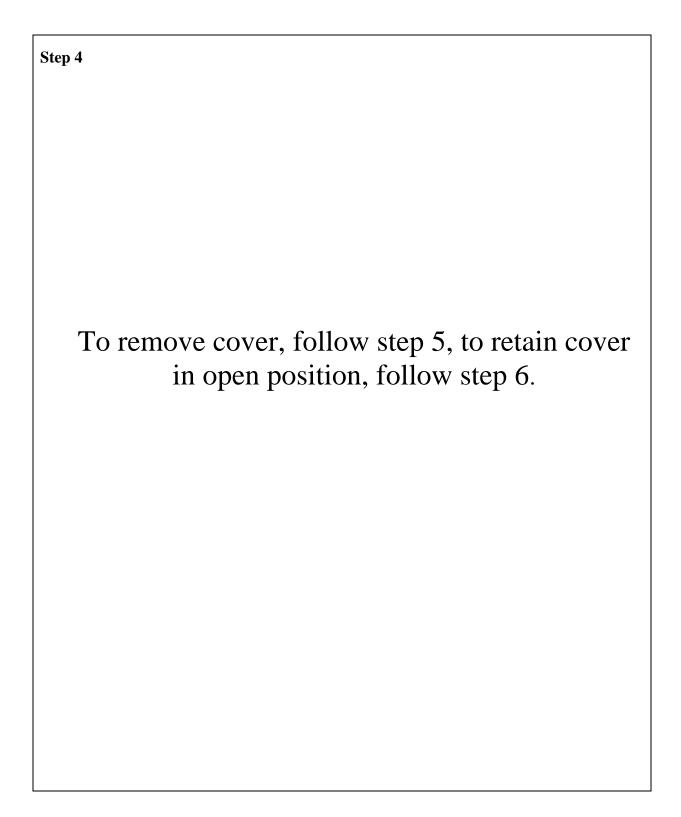


• If not, skip to step 3.

1.0 BOX OPENING

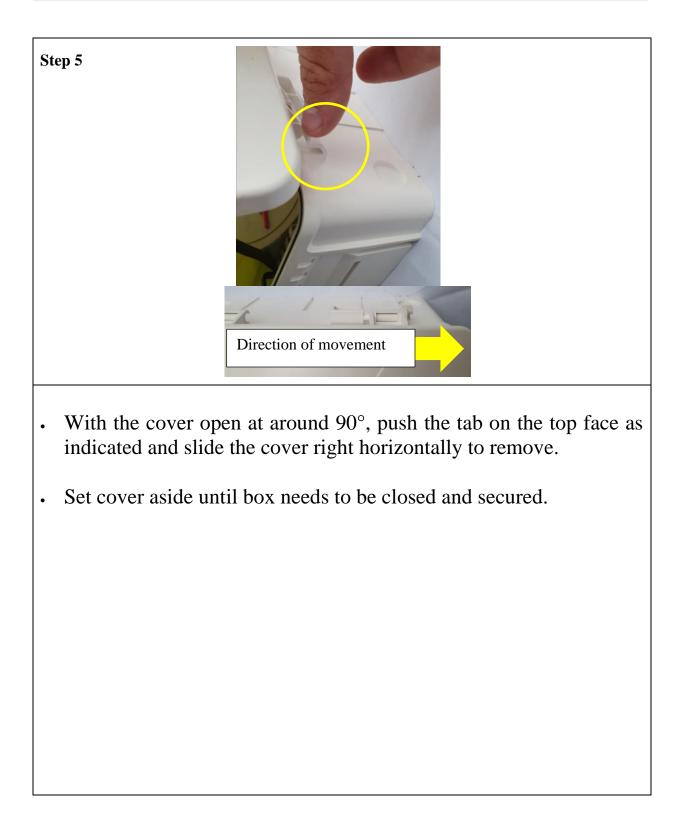


1.0 BOX OPENING



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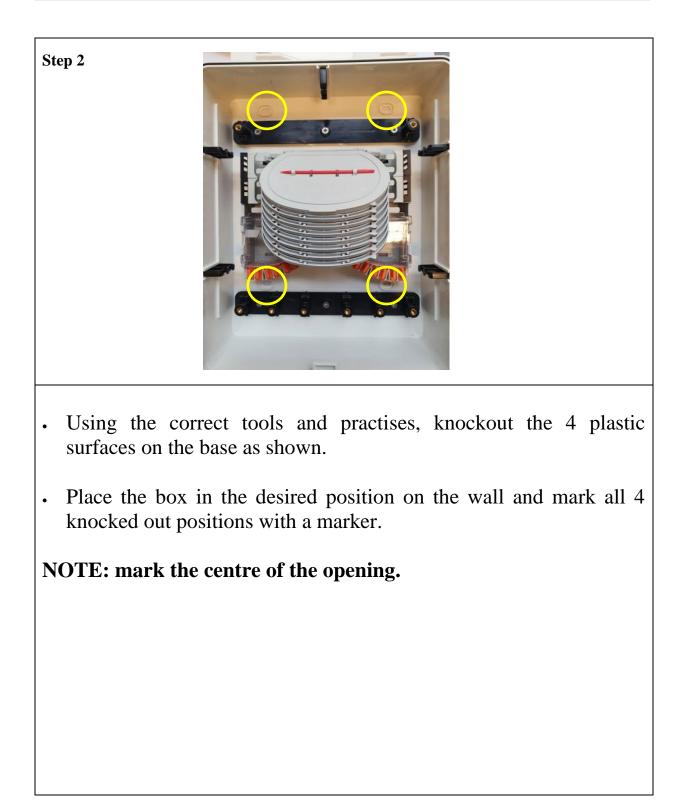


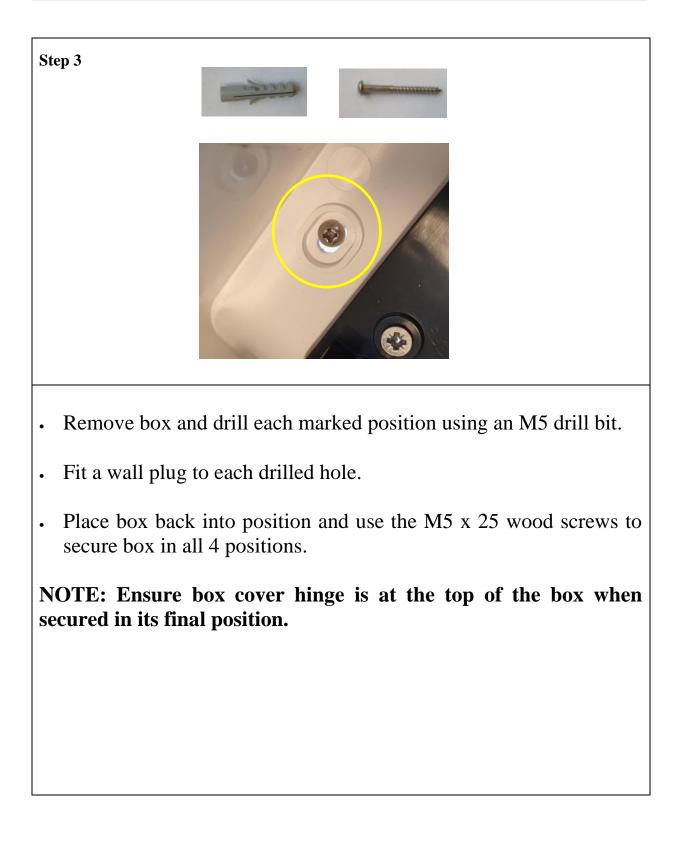
- If you are unable to remove cover and set aside, for example in aerial installations, push the cover to just over 180° where the cover will support itself.
- You will hear an audible click when the cover snaps over the bump on the base.

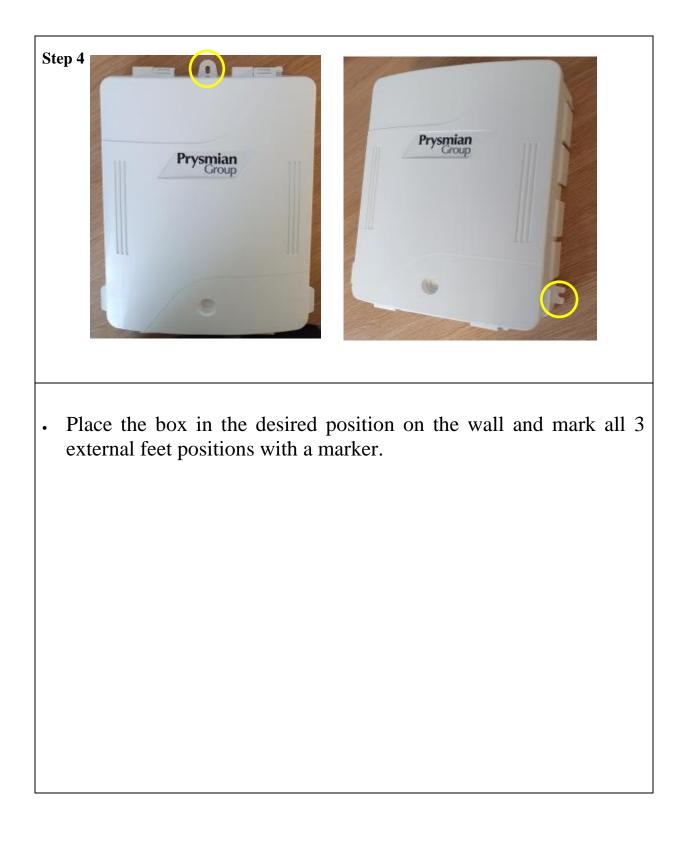
2.0 BOX WALL MOUNTING

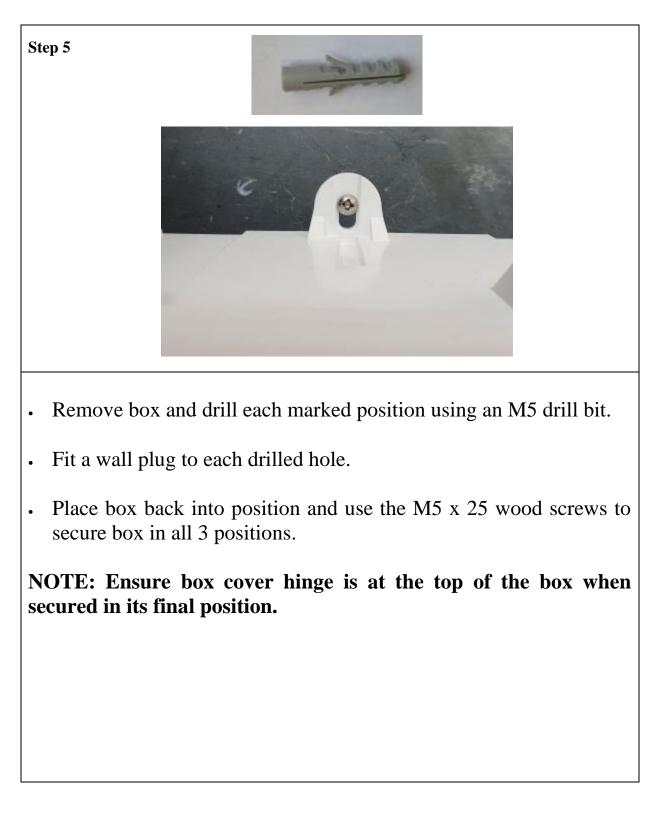
Step 1
For mounting using INTERNAL mounting positions, follow section 1 to open box and remove cover, then follow steps 2 and 3.
For mounting using EXTERNAL mounting positions, follow steps 4 and 5.
4 and 5.
Note: Internal mounting is only suitable for internal environments where moisture ingress is highly unlikely.

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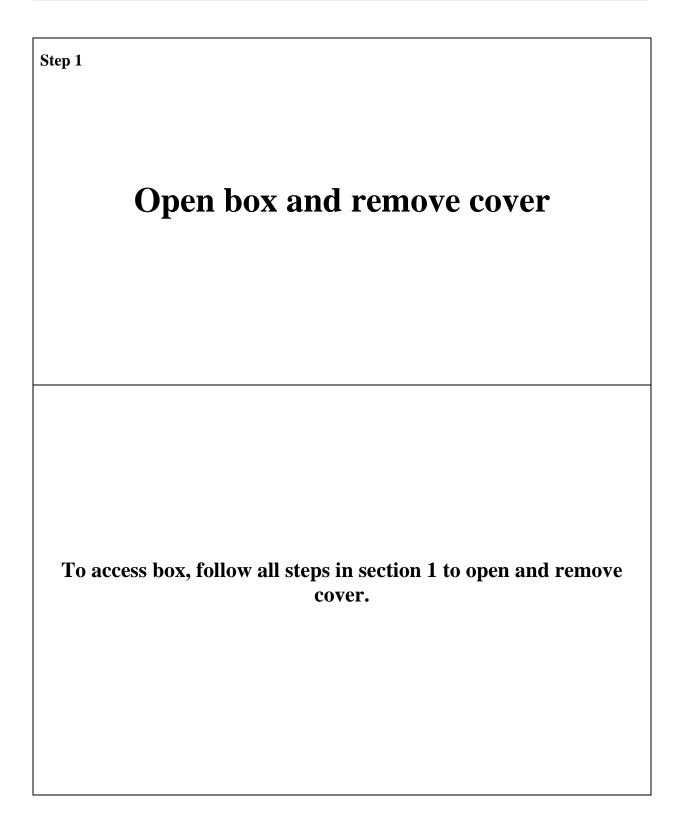








3.0 CABLE/GLAND INSTALLATION



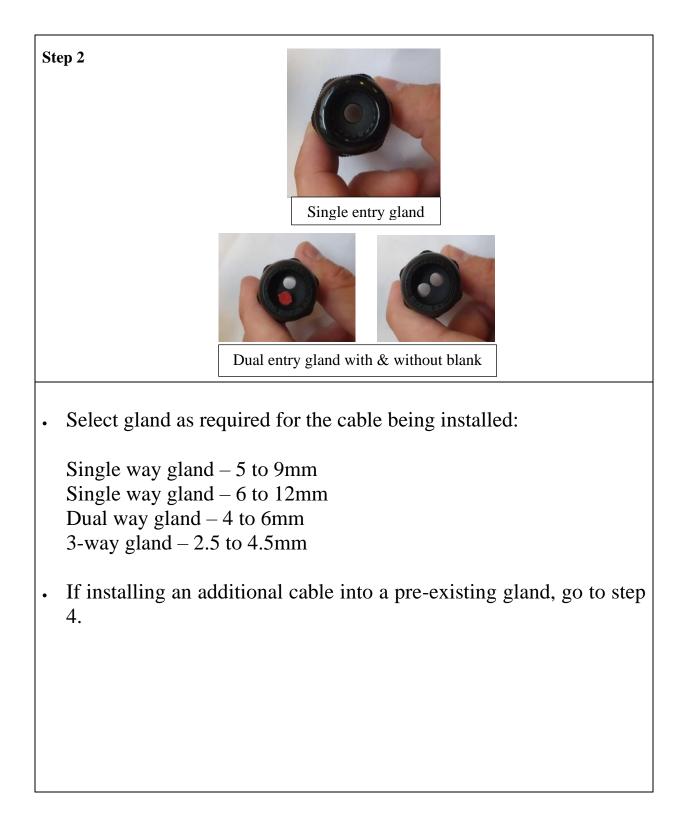
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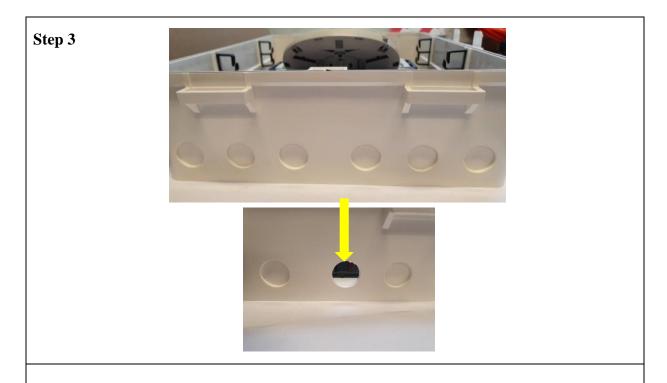
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3.0 CABLE/GLAND INSTALLATION



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• Locate and select the required entry position to be used for installing the gland.

NOTE: This can be on top or bottom face of the box.

• Knockout the plastic from the selected position to allow the gland to be inserted using approved practises and tools.

3.0 CABLE/GLAND INSTALLATION

Step 4		
	1.2m (Bottom entry	()
	1.5m (Top entry)	

- Remove any existing blanks if necessary and feed 1.2m (1.5m if using a top entry position) of cable through the gland and gland seal as indicated and tighten nut enough to stop cable slipping out.
- Add blank to empty cable position if required.
- Skip step 5 if installing an additional cable into a pre-existing gland.

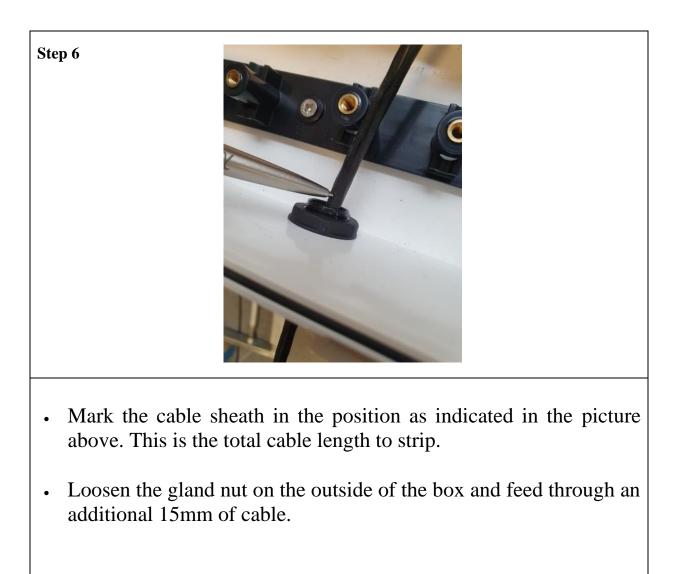
3.0 CABLE/GLAND INSTALLATION



- Push gland into knocked-out hole position and feed nut over cable on inside of the box. Ensure any rubber seal is securely on the thread of the gland.
- Securely tighten nut on inside of the box.

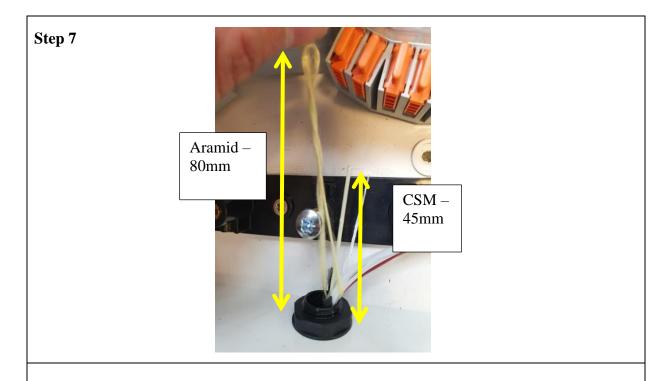
NOTE: Use adjustable spanner to fully tighten if necessary.

3.0 CABLE/GLAND INSTALLATION



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• Strip the cable from open end to where the sheath is marked from step 6 down to fibre elements using approved practises, exposing the strength member as below:

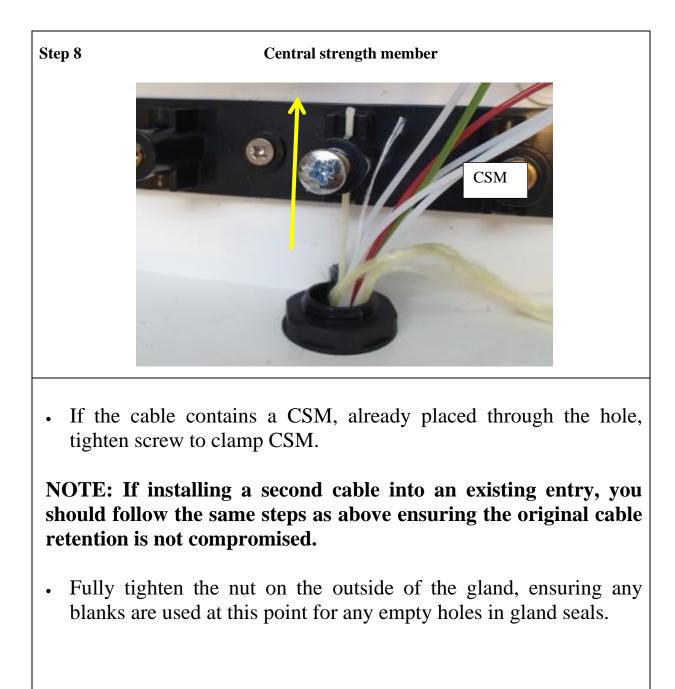
CSM – 45mm Aramid – 100mm

• Pull cable butt back in line with end of the cable gland once stripped.

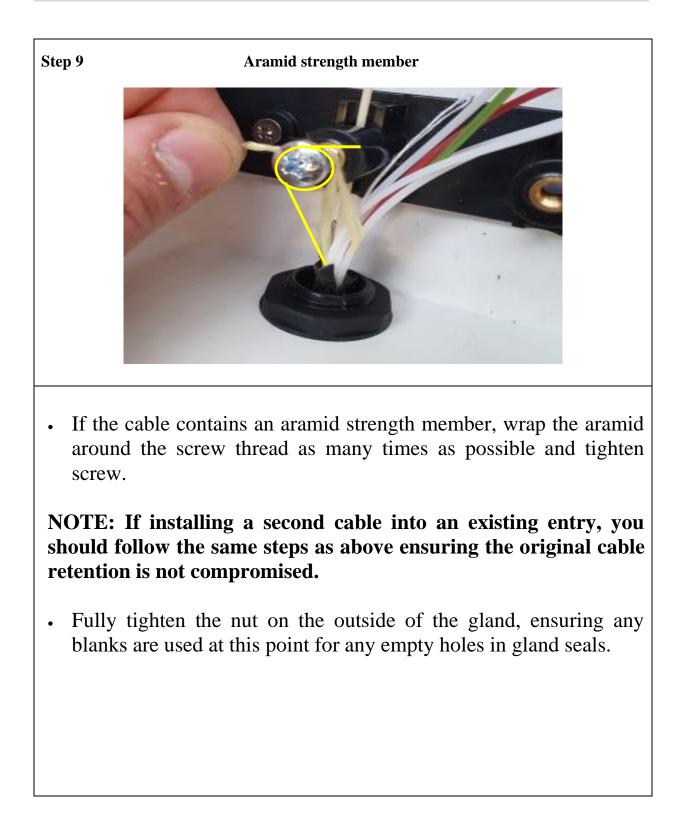
NOTE: if installing a cable with a CSM, thread this through the hole on the retention bracket at this point.

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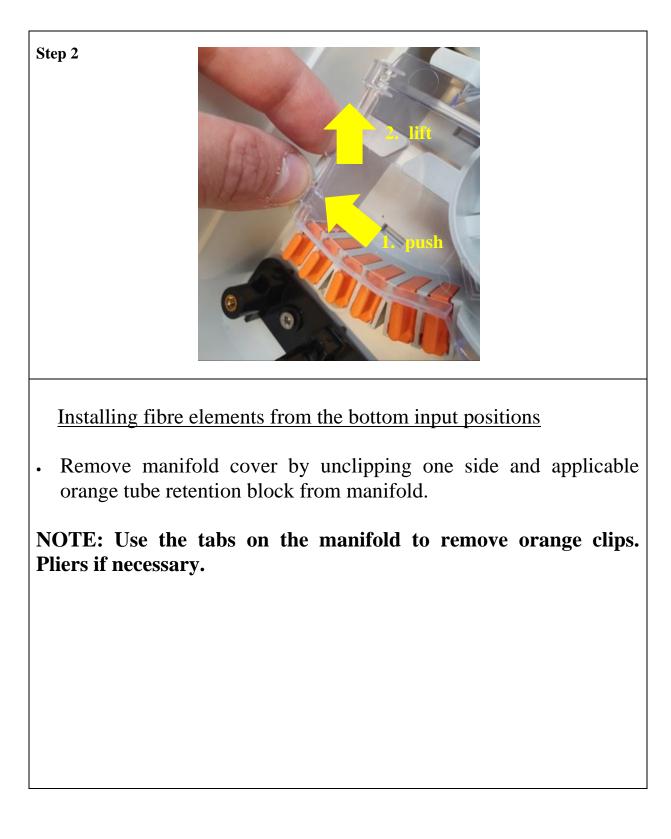


3.0 ROUTING FIBRES FOR SPLICING

Step 1
For routing fibres to be spliced from inputs on the bottom face, go to step 2.
For routing fibres to be spliced from inputs on the top face, go to step 4.
• Locate the fibre element(s) for splicing.

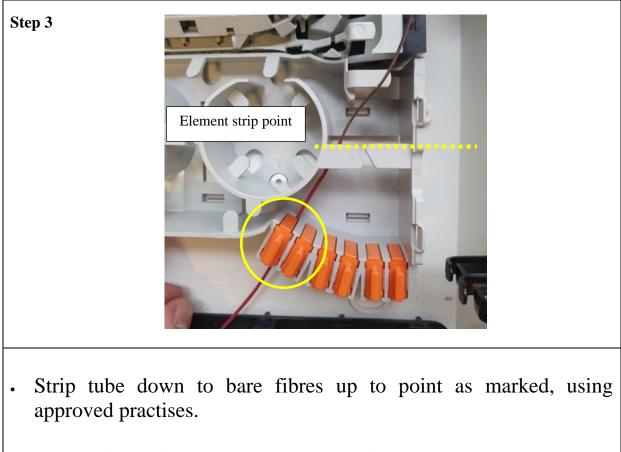
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3.0 ROUTING FIBRES FOR SPLICING



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3.0 ROUTING FIBRES FOR SPLICING



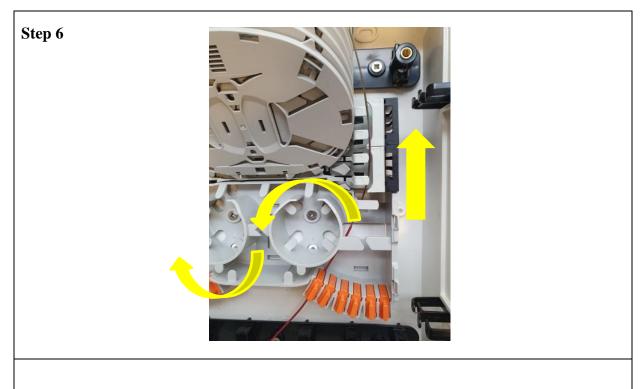
- Repeat for all fibre element(s) to be spliced and replace orange tube retention blocks to hold tubes in position.
- Go to step 6.

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Step 4		
g fibre elements from the top input positions		
fibre elements AFTER the excess fibre storage is ace, follow section 4 step 3 prior to completing next		
torage in place, continue to step 5.		

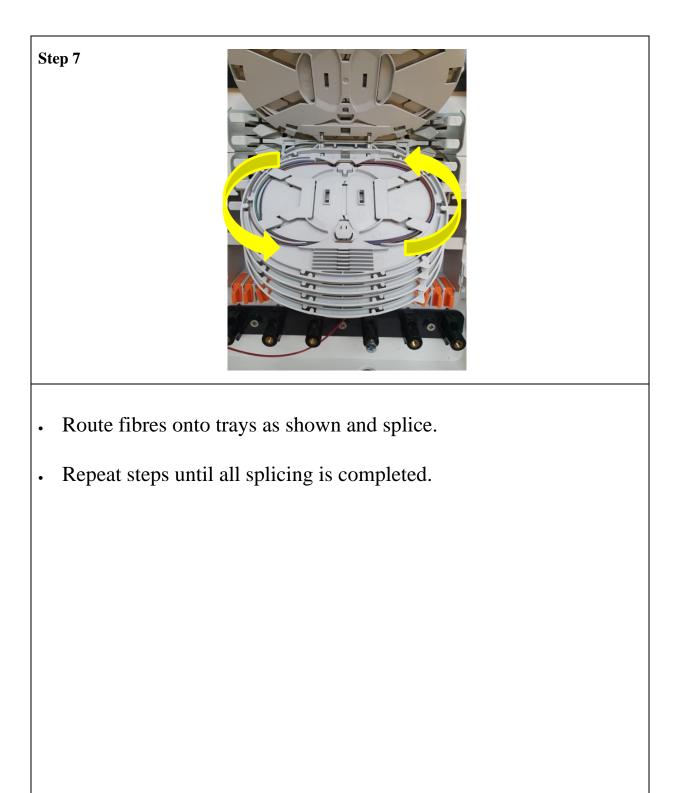


- To route fibre element(s) from top input positions, follow picture above to correctly route fibres, holding fibres in place using the lower bung of the storage catches.
- Ensure minimum bend radii for the fibre elements are adhered to when laid in position.
- Continue from Step 2.

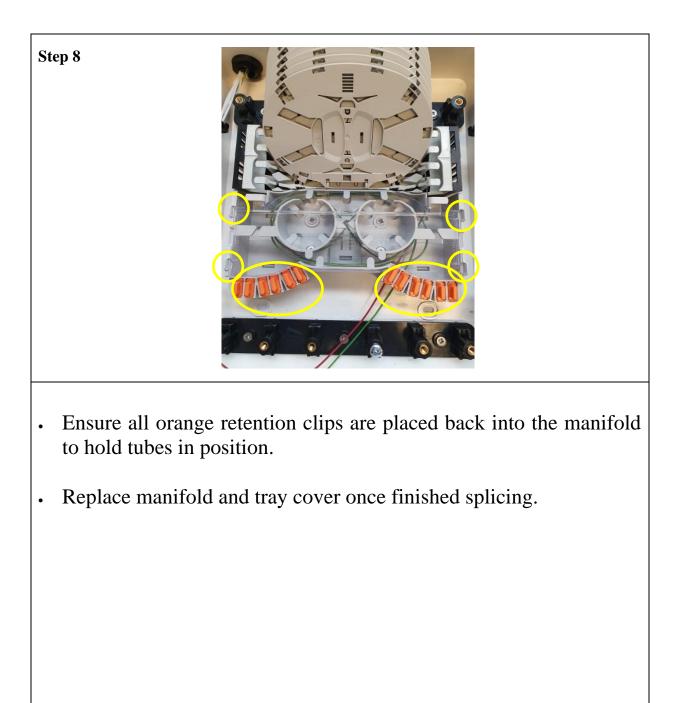


- Route fibres to desired tray using raceways at sides of tray modules.
- Fibres can be routed to other side of manifold using mandrels in centre of manifold.

3.0 ROUTING FIBRES FOR SPLICING



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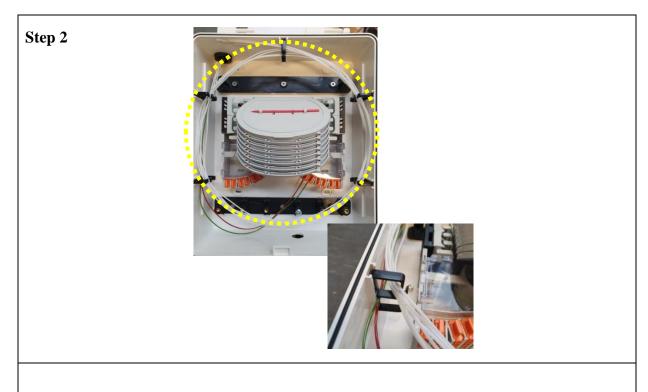


4.0 ROUTING & STORING EXCESS/LOOP FIBRE

Step 1
If loop catches are included, follow steps 2 to 4.
If a loop storage basket is included, follow step 5.

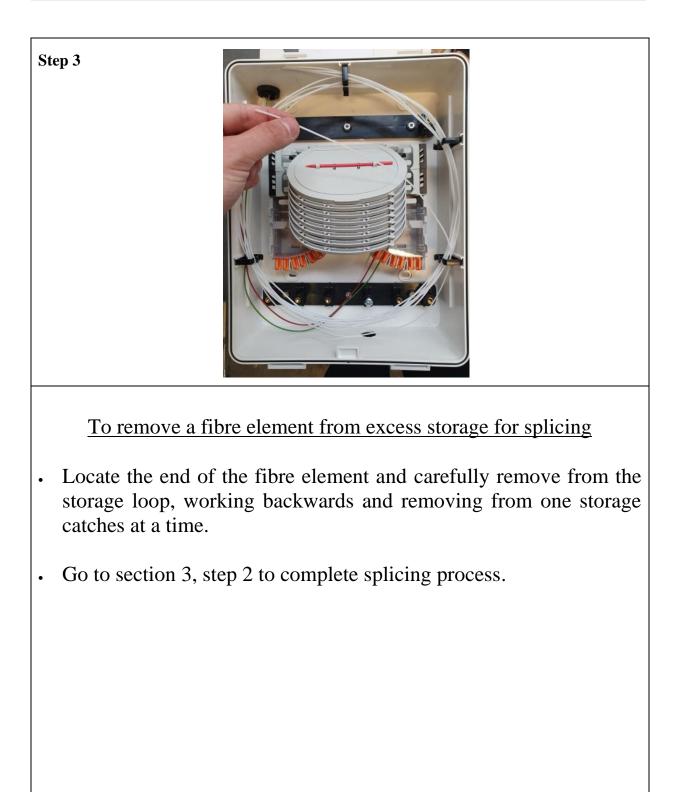
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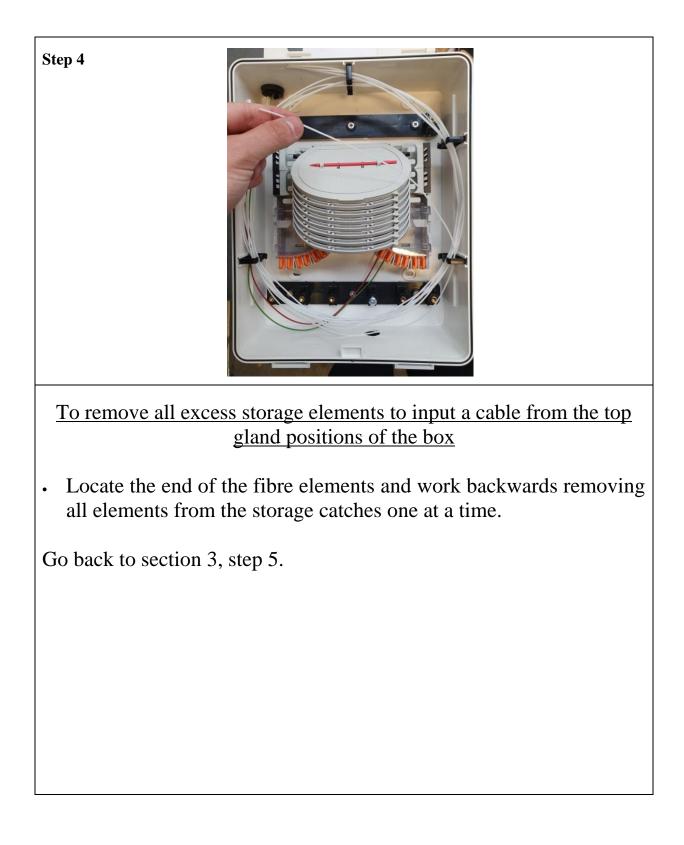


- To store excess fibre lengths, group all fibre element(s) together and route as shown.
- Use the top section of the storage catches to avoid disturbing any live fibres routed from the top inputs.

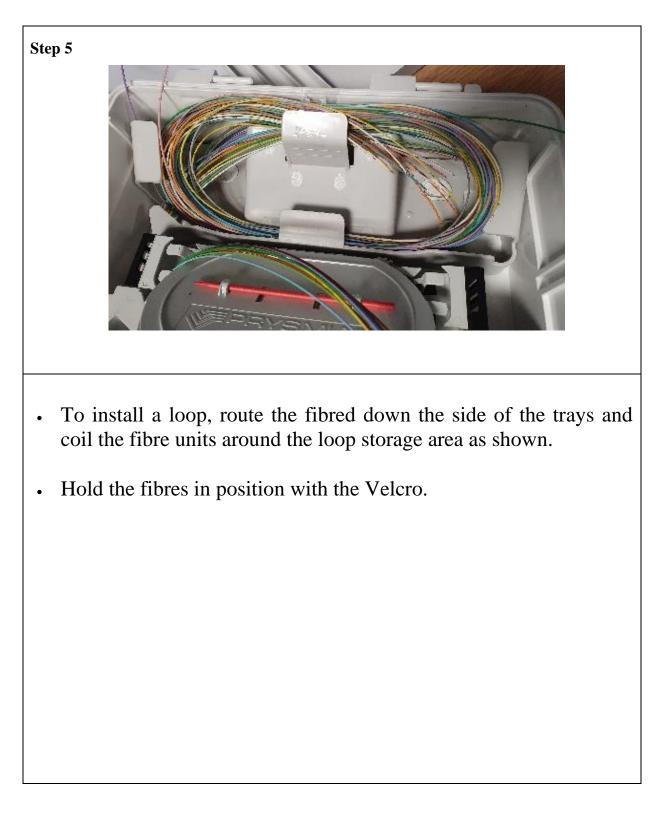
4.0 ROUTING & STORING EXCESS/LOOP FIBRE



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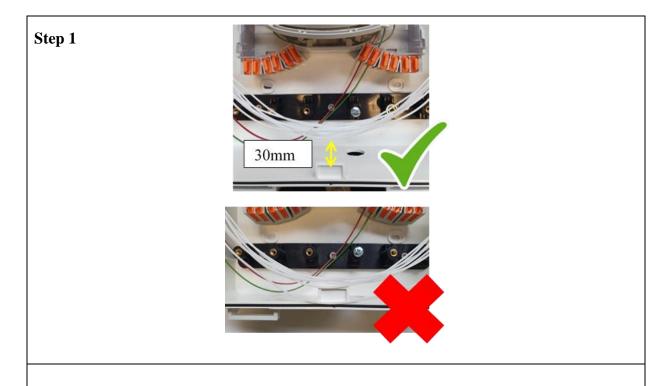


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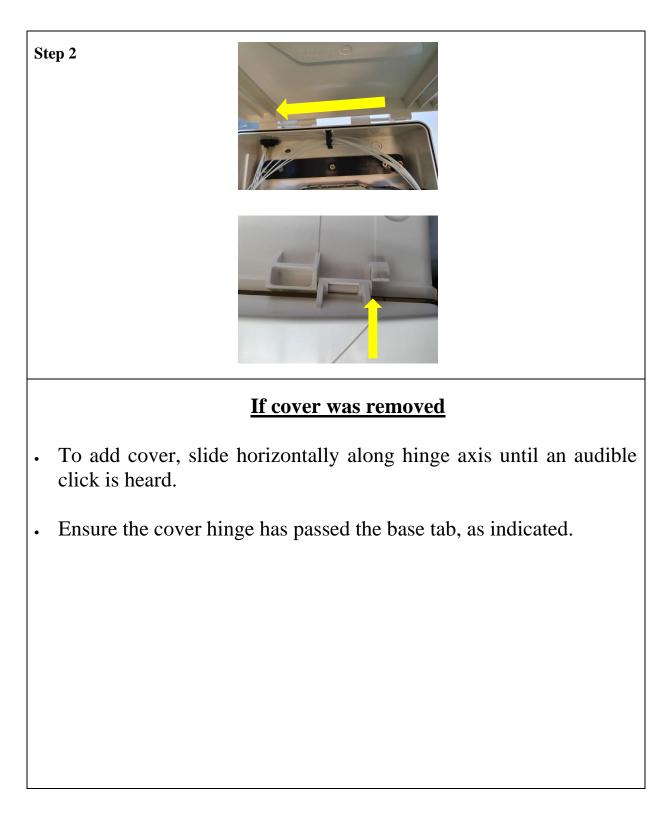
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5.0 BOX CLOSEDOWN AND SECURE



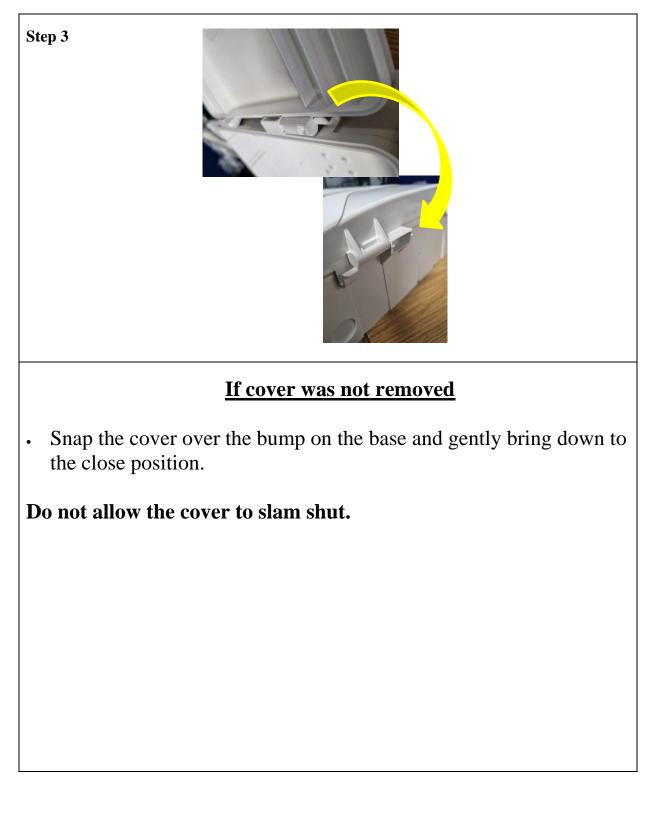
- To close box, first ensure all excess fibre elements are stored appropriately inside the storage catches particularly that the elements do not sit above the tab as indicated.
- Allow a minimum of 30mm distance between stored elements and end of tab.

5.0 BOX CLOSEDOWN AND SECURE



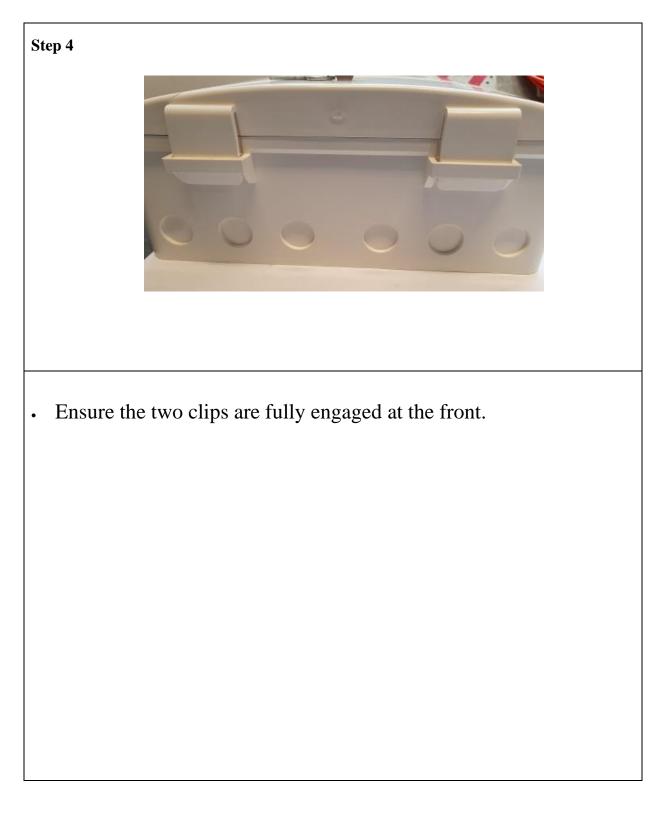
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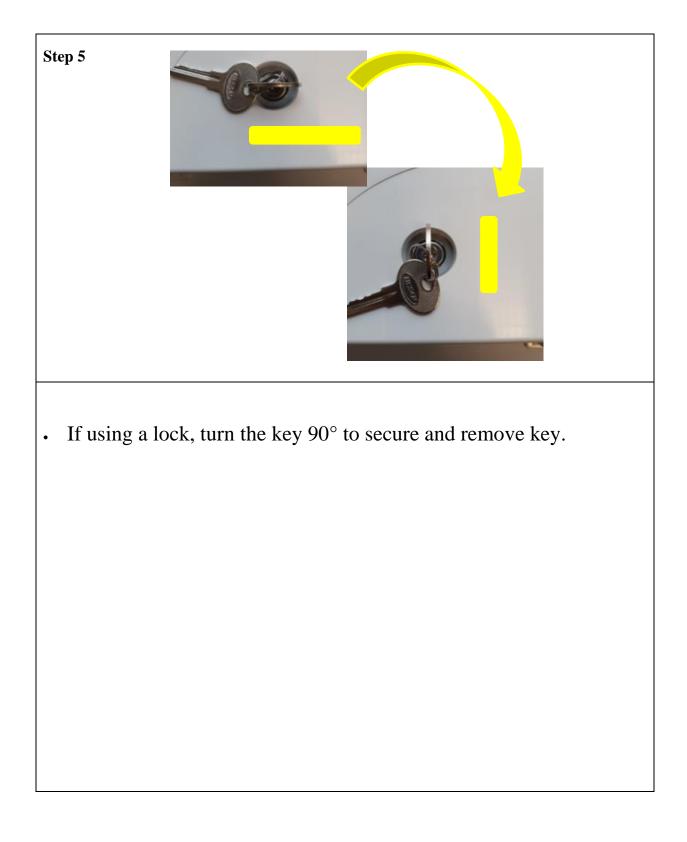
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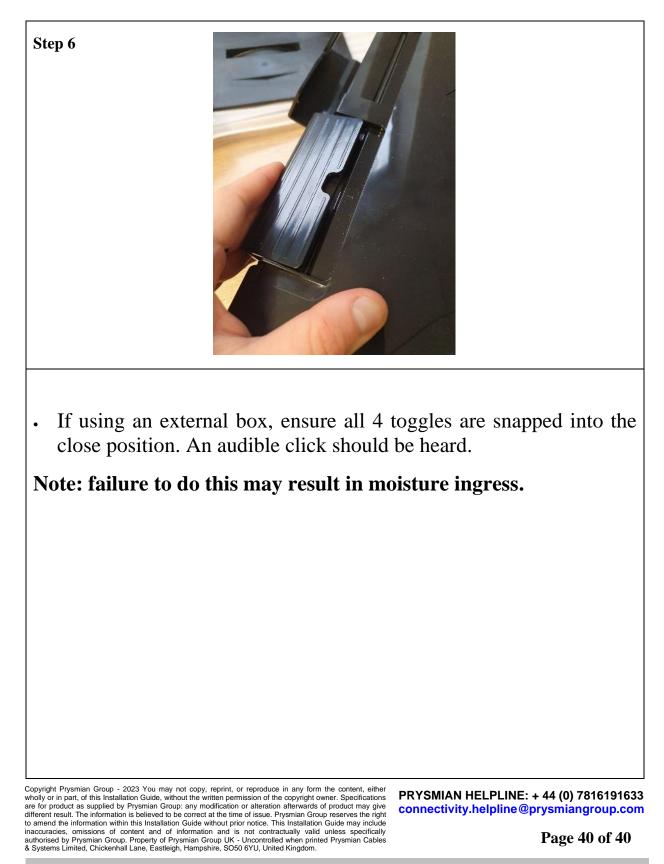
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