

### Purpose

The purpose of this document is to provide guidelines for accessing the Hiko Power Engineering range of pre-assembled U-Pillars (Type UDP XX 02Bxxx) (63A/100A/160A) for inspection & maintenance purposes.

Compliance must be adhered to the required regulations, standards, and environmental and safety requirements, including safe work practices as specified in local and national work instructions and codes.

***This work instruction assumes all U-Pillar access works will be undertaken by appropriately trained and qualified installers of the U-Pillar product.***





### References


- IN0017, Installation of the Underground Connection Box
- EEA Guide to Live LV Electrical Work
- EEA Guide for Livening of Service Connections to Premises

### Important Safety Information

- Wear appropriate personal protective equipment.
- Ensure all electrical components are isolated before making connections. Do not work on an energised system.
- Complete a risk assessment prior to commencing site work.
- Unauthorised modification of the safety critical components such as the lid, or structural supporting components, or sealing components is not permitted. If in doubt, contact Hiko for advice.
- Do not use U-Pillar if damaged. Always inspect for any visible signs of damage both prior to, and following pit access for inspection and/or maintenance.
- Do not clean U-Pillar with a high-pressure cleaner.

## U-Pillar Access for Inspection and Maintenance

No.	Description
1	<p><u>Preparing for Access</u></p> <ul style="list-style-type: none"> <li>○ Wear the correct PPE at all times when opening the lid for inspection, operation or maintenance.</li> <li>○ Unscrew and the two M8 torx screws.</li> <li>○ Remove the lid by levering the lid up at the two recessed access points</li> </ul> <p><b>Note: Screw removal will require a screwdriver with a M8 torx bit fitting.</b></p> <p><b>When working on LV network switchgear/fuse gear always follow all operating procedures applicable to the inspection, operation and maintenance.</b></p> <p><b>Note: The presence of condensation within the clear watertight bell is normal.</b></p> 
2	<p><u>Removing the Bell and Fuse Assembly</u></p> <ul style="list-style-type: none"> <li>○ Remove the padlock / securing screw.</li> <li>○ Release the bell retention bar by gently lifting near the middle of the bar</li> </ul>  <p><b>Caution: If the pit has an elevated water level the bell and fuse assembly may float up once the retention bar is removed.</b></p> <ul style="list-style-type: none"> <li>○ Lift the bell and fuse assembly up using the two handles situated on top of the bell</li> <li>○ Rotate bell clockwise through 45 degs and rest the assembly base on the internal support frame</li> <li>○ Unlatch the four side clips to release the bell</li> </ul>  <p><b>Note: It is acceptable for condensation to have accumulated on the inside of the bell</b></p> 

No.	Description
	<ul style="list-style-type: none"> <li>○ Lift bell off the fuse assembly.</li> <li>○ Store the bell in a suitable location to avoid any risk of accidental damage.</li> </ul> 

- 3 Inspection and Maintenance
- Follow all operating procedures applicable to the inspection, operation and maintenance of LV network switchgear / fusegear
  - Perform inspection and maintenance work as below table.

Inspection/ Maintenance	Description
1	Conduct visual inspection of U-Pilar water ingress, damage, loose connections, drain holes and parts corrosion.
2	Check lid, security screws. Replace as required.
3	Check bell, stand. Clean condensation as required.
4	Check Fuse holder terminals corrosion, fuse corrosion and signs of overheating. Replace fuses as required.
5	Check E/N bar, E/N cables connection and corrosion.
6	Check inappropriate water ingress inside pit. Remove water as required.

**Always use insulated tools.**

**LV network operations must be performed only by persons holding the appropriate competency rating for the type of work.**

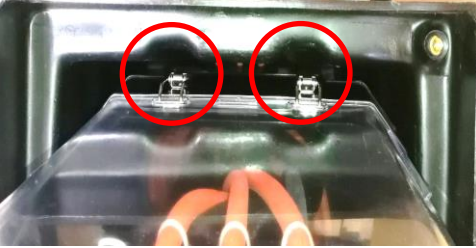
**It is recommended that if condensation is encountered during access, the bell is wiped dry prior to refitting**



**Plugs can be removed to gain access for testing**



- 4 Re-Installing Bell and Fuse Assembly
- Completed the inspection and maintenance
  - Replace the bell back into position over the fuse assembly with the correct orientation for the clips.
  - Fasten the 4 clips to secure the bell to the fuse assembly
  - Rotate the bell/fuse assembly back anti-clockwise through 45degs (ie: reverse of earlier)

No.	Description
	<p>and lower back into pit.</p> <ul style="list-style-type: none"> <li>○ Reinstall the bell retention bar and secure with padlock or bolt.</li> </ul>  <p><i>Residual water inside the pit does not need to be removed prior to lowering the bell/fuse assembly.</i></p> <p><i>When correctly orientated, the bell side catches align with the vertical side slots formed inside the pit body.</i></p>
5	<p><u>Securing U-Pillar</u></p> <ul style="list-style-type: none"> <li>○ Clean around the pit lid recess</li> <li>○ Replace the lid on top of the pit ensuring the writing on the lid is reading left to right when viewed from the road side</li> <li>○ Re-secure with the two M8 torx screws</li> </ul> <p><b>Ensure U-Pillar is secure before leaving the site.</b></p> 