

ASP General Information Service & Installation Compliance

Alert Number: GI10_23

23 August 2023

Subject: Live fixing bolts of SPD/MPD fuse holder bases

Dear ASP2s

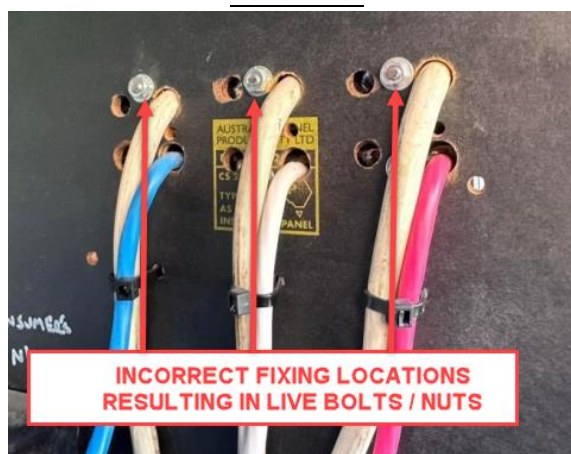
Ausgrid has been notified of an electric shock received by an electrical contractor when coming into contact with the conductive bolts used to secure the service fuses to switchboard panel. The service fuses had been drilled and fastened with the conductive bolts touching the terminals on both line and load side of the fuse bases. With the fuses removed, the line side terminals of the fuse holder bases and respective mounting bolts/nuts remained energised.

Further investigation identified the associated service work was notified to Ausgrid in 2015. The below photos show the exposed conductive bolts affixed through the terminals of the fuse holder base.

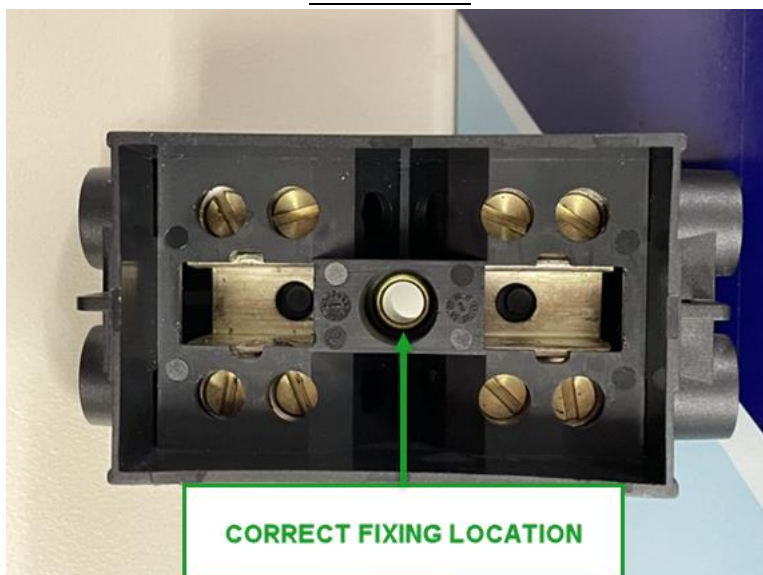
Panel Front



Panel Rear



The correct fixing method using the mounting hole (located in the centre) provided by the manufacturer is shown below.



While there is no specific test required by AS3000 or NS282 which would identify this hazard, one likely indicator would be the use of two fixing nuts at the rear of the hinged switchboard panel, behind each service fuse. When installed in accordance with the manufacturer's instructions, only one fixing nut should be present between the incoming and outgoing conductors terminated at the line/load terminals of each fuse holder base.

ASPs are reminded to not work live on customer's installations, test to ensure exposed parts are not live ("assume energised until proven (tested) de-energised") and to follow manufacturer's instructions when installing equipment.

For any questions regarding the above, please email ASP2Investigations@ausgrid.com.au

Service & Installation Compliance

Ausgrid