

SAFETY ALERT

PRECISION HYDRAULIC LIFT WIRING

What Happened:

- Service Technician sustained an electric shock.
- Incident investigation identified a design fault in the “Precision Hydraulic Lift” tank in lift motor room.
- Wiring terminal block located in close proximity to lid – when lid is in place part of the lid was sitting on one of the phase wires.
- Over time, the insulation on that wire had worn away.
- As the lid normally sits on foam rubber sealant material, the lid was isolated from the (earthed) tank (the lid was not bonded to the main earthing system).
- With the wire exposed, when the lid was pressed down contact was made between the lid and the tank, with a circuit being formed and a risk of earth leakage

Prevention:

- The location of the terminal block needs to be assessed for proximity of the wires to the lid, when the lid is in place.
- Reposition wiring loom to increase the clearance between the lid and the wires.
- The lid needs to be bonded to the main earthing system to ensure all parts are earthed.



Note the deformed insulation on the 5th wire from the left.
Note the compromised insulation on the 3rd red wire from the left.



Bond the lid to the tank

The arch of the wires coming out of the terminal block needs to be decreased to prevent contact between the lid and the wires.

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