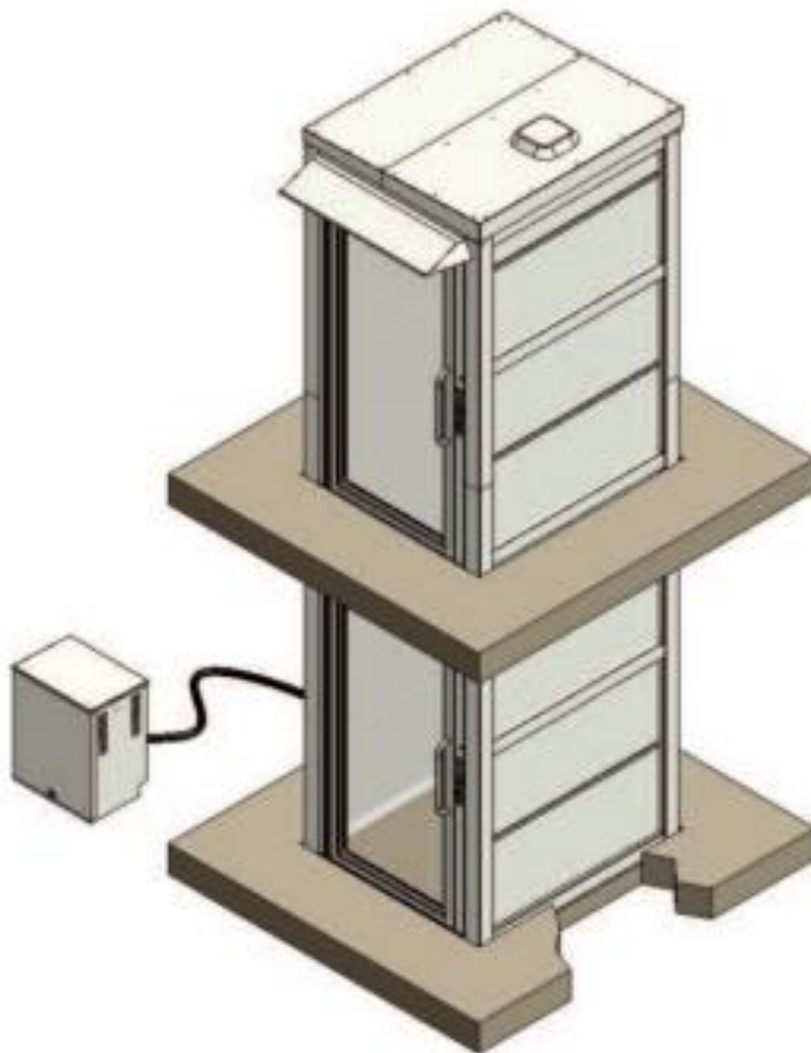


Midilift SL/GL External Platform Lift



Installation Supplement *(to be read in conjunction with Midilift SL Installation Guide)*

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1 Introduction

- 1.1 The installation procedure for the External Midilift SL/GL is almost identical to the standard Midilift SL & GL products. This Installation Supplement is therefore intended to be read in conjunction with the Midilift SL Installation Guide. **This supplement only details those areas which differ from the standard SL/GL product.**

2 Safety Equipment and Precautions







1.2 Personal protective equipment

The following safety equipment is recommended for your personal safety.

USE AS REQUIRED AND WHEN INDICATED IN THIS MANUAL.

 Safety gloves	 Safety goggles	 Safety helmet	 Ear protection	 Safety shoes
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1.3 Danger / Warning symbols

 Danger: Electric shock	 Danger: Risk of falling	 Danger: Suspended load	 Caution / Warning	 Weight = xx kg	 Danger: Crushing hazard
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1.4 General safety precautions

- Always use personal protective equipment when indicated in this manual.
- Always ensure that electrical equipment is disconnected from the power supply before working on them.
- Do not use any shorting links unless stated otherwise.
- Follow each instruction in this manual and **DO NOT** skip any step as a potentially dangerous situation may arise in doing so.
- **Ensure that the pit prop is in its active position when any work is undertaken below the platform**
- Ensure that lifting aids are considered before attempting team lifts for loads above 25Kg
- Follow general health and safety procedures while lifting heavy loads and working from height.
- Danger / warning signs will indicate when there is a potential risk, pay special attention to these risks and ensure that safe working practices are upheld.
- Comply with all local site rules on working in adverse weather conditions.

3 Rust Protection

The warranty against rust for this product is 5 years.

Therefore care has to be taken when installing the lift not to accelerate corrosion. Most of the lift itself does not differ to the standard internal lift however exposed parts have been coated in a special coating beneath the powder coat to prevent rusting. The base material has remained mild steel so will rust if exposed. The special E-Coating will reduce the spread of rust and stop the powder coat from bubbling.

If drilling is needed to the structure i.e. for the assembly of the hoop, or any kind of damage occurs. Then the exposed mild steel must be treated.

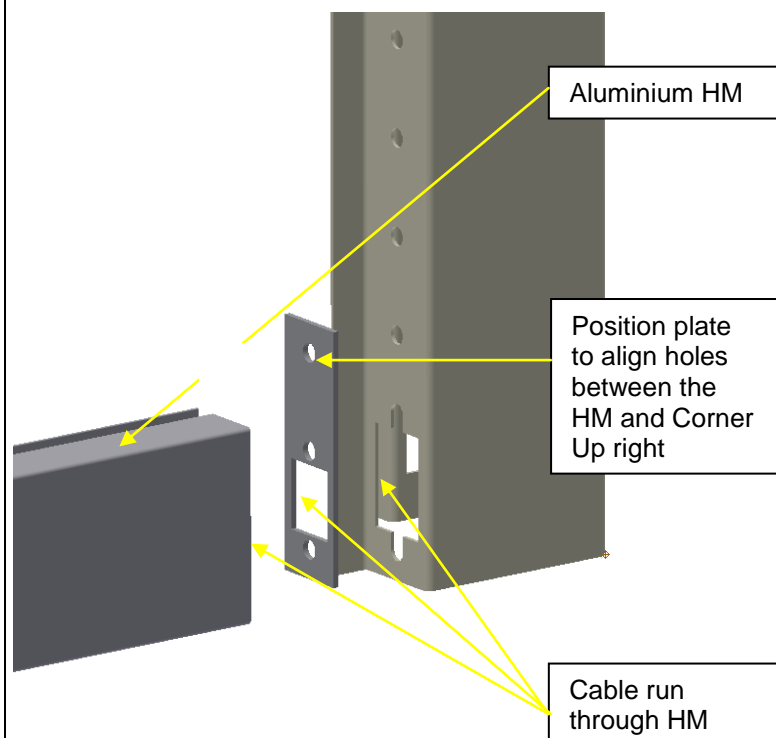
The most effective method for this is to:

- A. Make sure that all burrs and sharp edges have been removed using a file.
- B. All swarf has been removed and swept from the area as this will rust and stain the powder coat.
- C. Cover the exposed mild steel with a zinc rich primer. (the spray applications are sufficient and dry faster than paint on.)
- D. If visible use the provided touch up spray once the primer is dry.

4 Lower Horizontal Members

The lower horizontal members are the standard aluminium on the external lift. Position the plate to the corner upright first as shown and then the Horizontal member to the plate. Any cables will run through like the steel version on the internal lifts.

Note: See 5.2 regarding hose run in the corner upright.

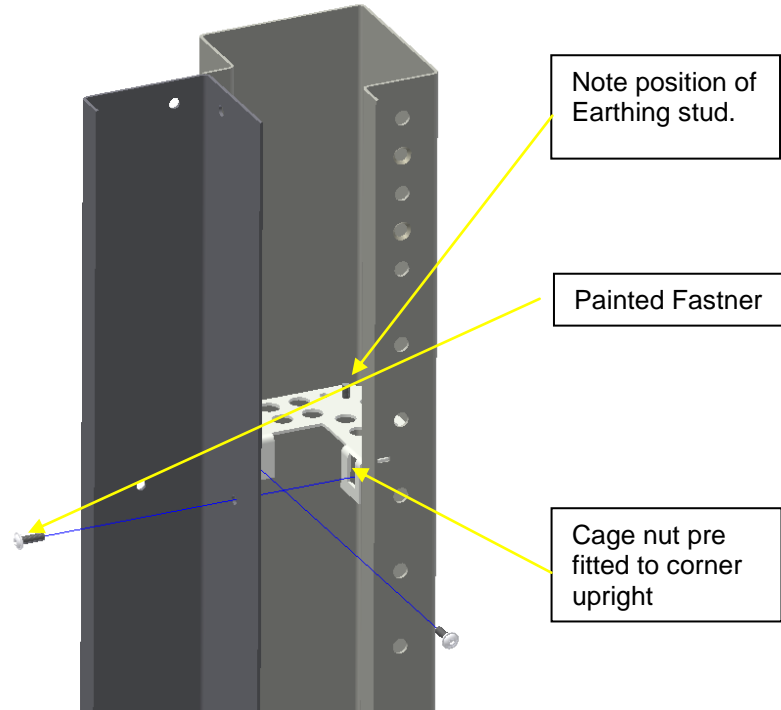


5 Corner Uprights

5.1 Infill Panel

The Corner uprights have cage nuts pre-assembled along their length in the stiffeners so that self drilling screws are not needed.

Also for this reason M5 stainless & painted screws are supplied for fitment into the cage nuts.

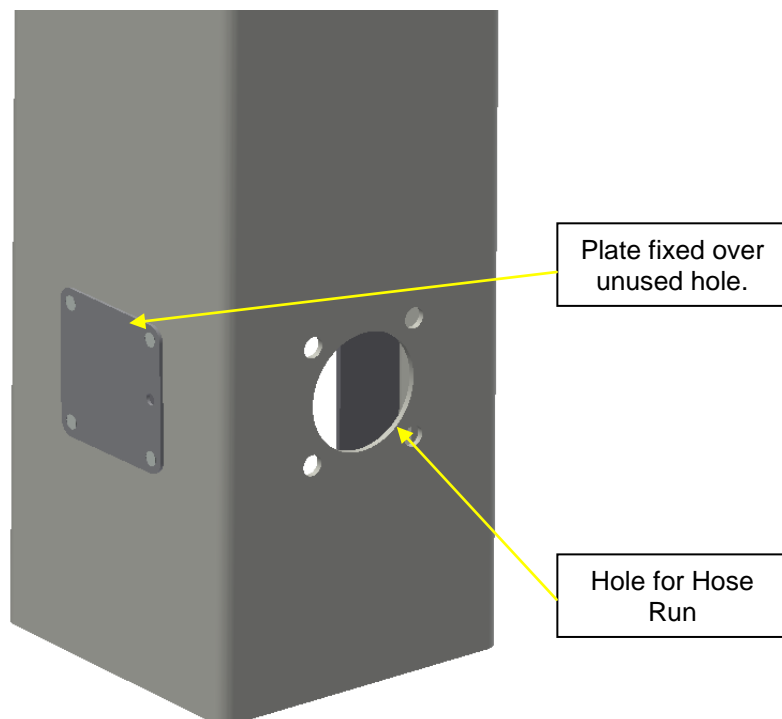


5.2 Hose Run

One of the Lower corner uprights is supplied with a pre-cut hole for the hydraulic hose to go through to the pump enclosure.

Position This upright either to the left or right of the base plate depending on pump positioning.

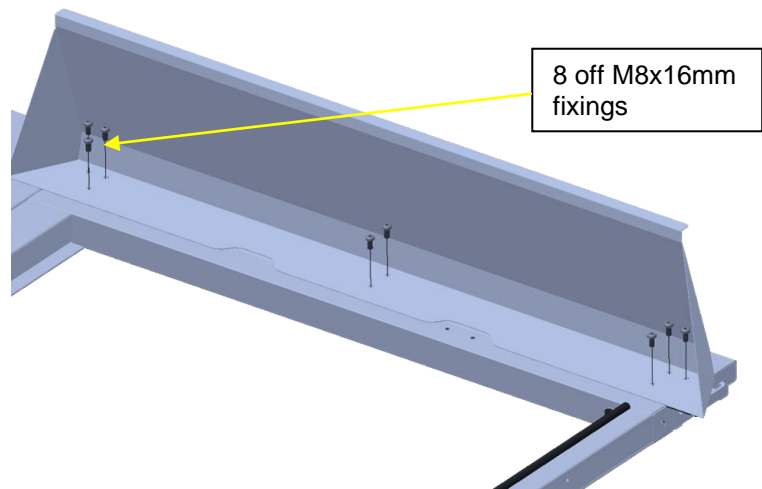
The hole is cut in two sides where only one is needed for best positioning of the hose. The other hole can be closed with the plate provided as shown.



6 Canopy

The Canopy is designed to keep the worst of the elements from the entrance and also to keep the door closer dry, It is simply fitted with the 8 M8 Bolts provided.

In the event that the lift has an internal landing, the customer may have requested to not have a canopy on that landing. In this event, a blanking plate will be provided along with 3 fixings to secure it. Touch up spray paint must be applied to the fixing heads to maintain aesthetic standards.

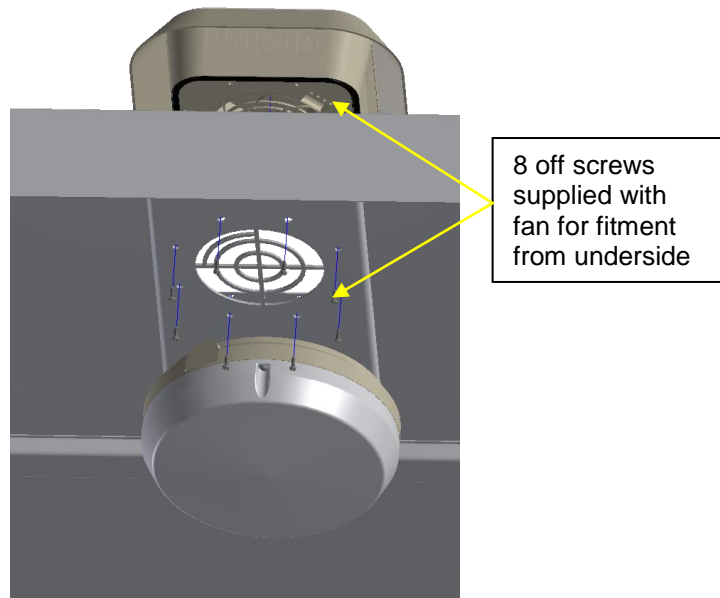


7 Roof

7.1 fitting the fan (option)

The Fan circulates air around the lift and is fitted to the roof, Using a screw driver so as not to over torque use the screws provided with the fan to secure it to the roof as shown.

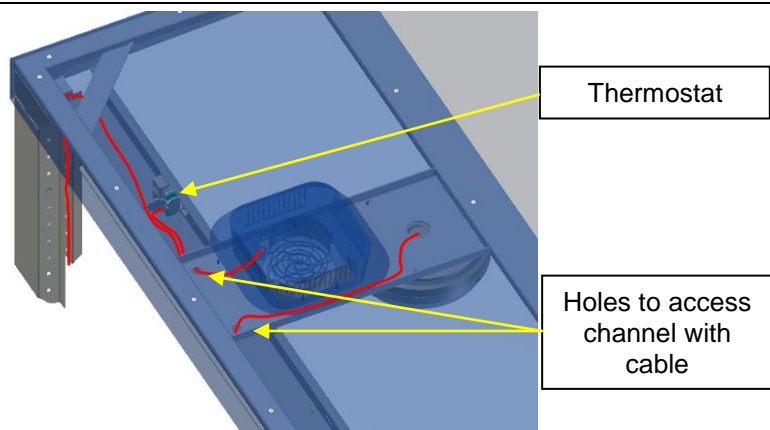
Note: the fan is to be fitted before fitting the roof.



7.2 Wiring the fan and Cable routing

Before fitting, make sure the cable is run through the hole in the channel in the roof, once the roof is fitted to the lift, the fan will be wired into the thermostat. See wiring Manual.

Note: See 7.4 for channel and thermostat fitting.



7.3 Fitting the roof

Fit the roof support members into the corner uprights. As shown.

Lift the roof on to the top of the structure and down onto the support members (Note, it will always slope away from the guide rails.)

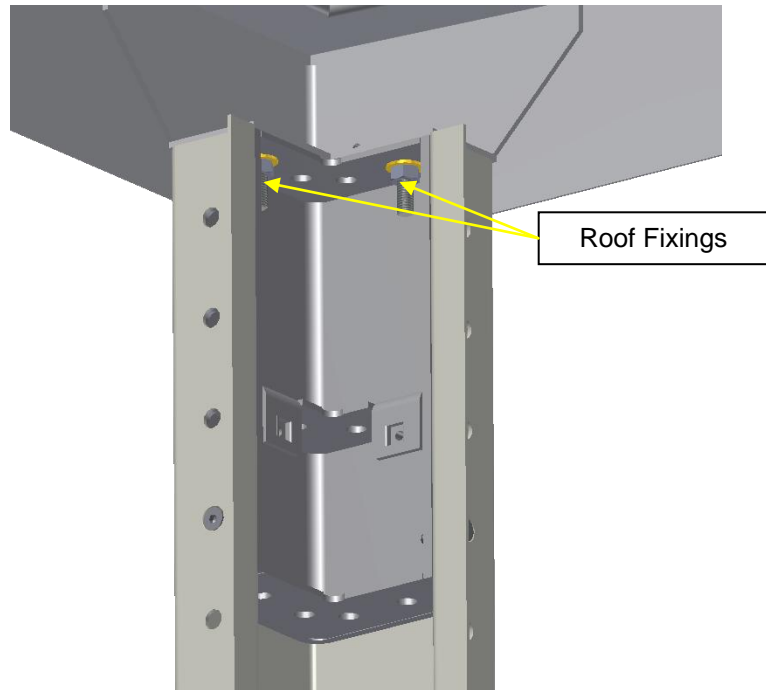
Secure in place with two M8 bolts, washers & nuts in each corner upright. As shown.



Weight > 25 Kg

Ensure that lifting aids are considered before attempting team lifts for loads above 25Kg

Note: For a dual control lift, 2x 3mm packers will be required at each guide side corner to achieve correct fitment.

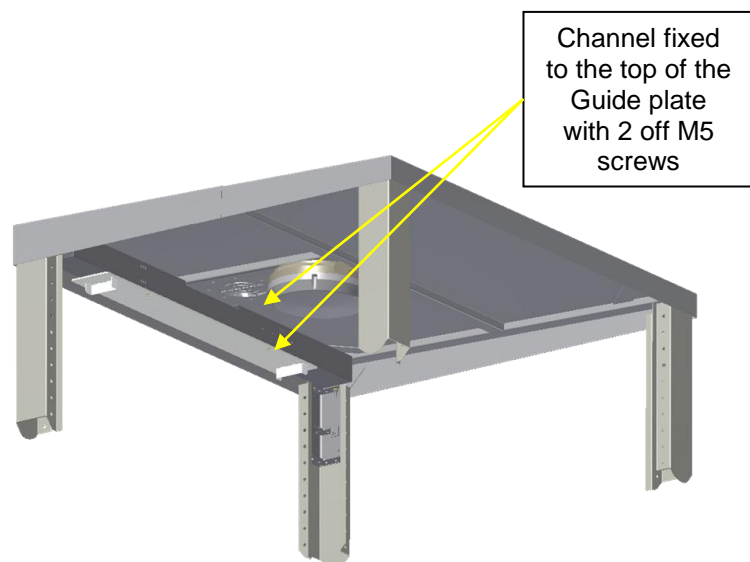


7.4 Fitting the Cable run Channel

Once the roof is in place, proceed with one of the following:

1. If the ceiling has a fan; secure the thermostat to the studded channel using 2x M5 nuts and washers. Then fix the assembly to the top beam using 2x M5 fixings.
2. If the ceiling does not have a fan then the thermostat will not be present. Simply fit the studded channel to the top beam using 2x M5 fixings.

Set the thermostat to the required temperature for the fan to come on and circulate air. (as per manufactures instructions provided with fan.)



8 Pump Enclosure

8.1 Fitting the Oil Heater

The oil heater will be supplied separately. To fit it, simply remove the filler cap from the pump unit, and place the heating element and thermo couple into the tank ensuring the thermocouple is completely submerged in oil. The heating element has a new filler cap that can now be closed.



Heating Element and thermo-couple

Heating Control

Filler Cap

8.2 Fitting the pump

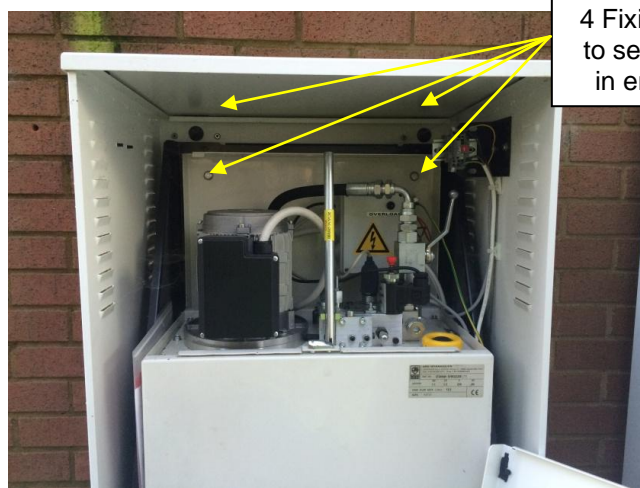
The Encloser itself can be floor or wall mounted using appropriate fixings.

The Pump is placed into the enclosure, it is bolted to the back of the the encloser using 4 screws.



Weight > 25Kg

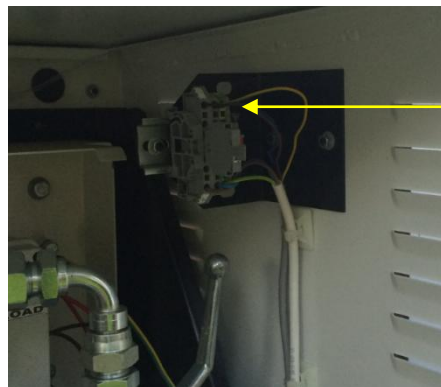
Ensure that lifting aids are considered before attempting team lifts for loads above 25Kg



4 Fixing Points to secure tank in enclosure

8.3 Fitting the heater controller

The heater controller is fitted to the bracket inside of the pump enclosure. The Oil heaters must be wired into a separate 3-amp switch spur.

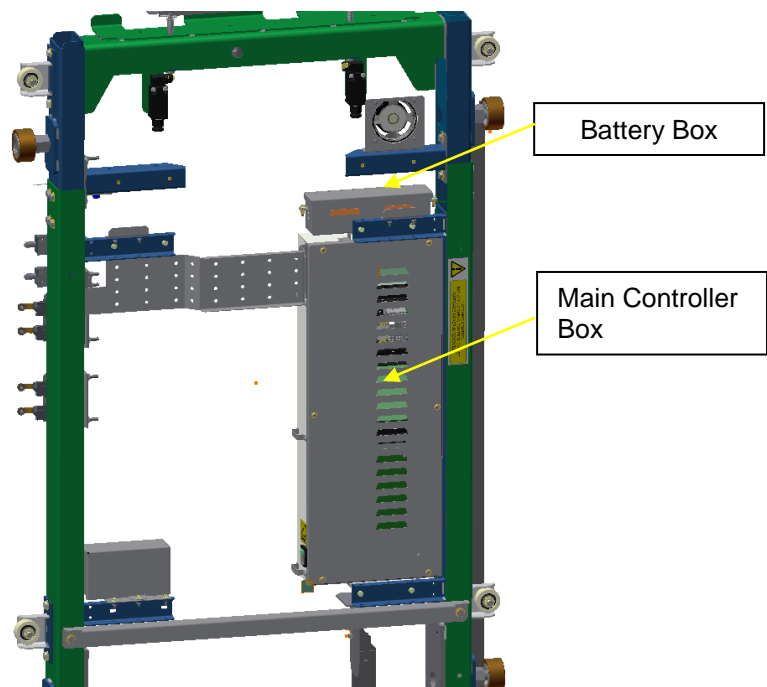


Heating Controller fitted to bracket inside enclosure

9 Electrical Boxes

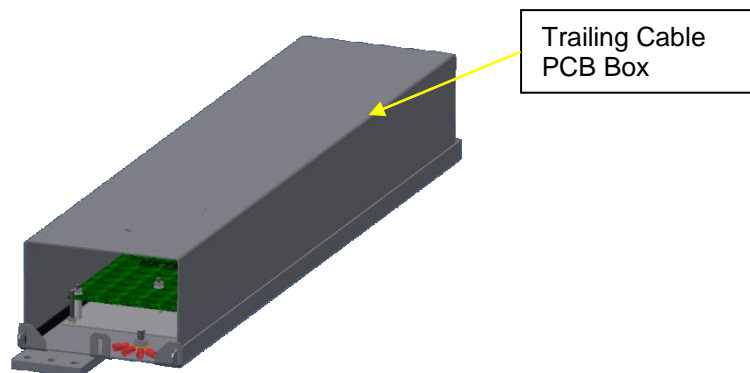
9.1 Main Controller and Battery Box

All previously exposed electrical areas have all now been covered. All fixings and covers must be re-fitted if removed.



9.2 Trailing Cable PCB Box

All previously exposed electrical areas have all now been covered. All fixings and covers must be re-fitted if removed.



10 Earthing

With the introduction of electrocoating (e-coating) on the Midilift SL External product. It is more important than ever to ensure the metalwork on the lift is correctly earth bonded together. Due to this finishing process, additional earth studs have been positioned around the lift where in the past, self-tapping screws were used to hold the earth cable.

Self-tapping screws are no longer advised on external lifts due to the swarf produced; please use the earth studs

The following areas on the lift have been affected by this change:

Corner uprights:

Earth studs are now positioned on each stiffener plate within the corner upright, use assembly 9451044 (Earth Bonding cable Loom) to link between each corner upright.

Doors:

An earth cable can now pass through the top hinge from the corner upright to the door. The door lock assembly now has an earth lead fitted, to be attached to the door frame.

Door frames:

There is an earth stud behind the door lock for attaching earth cables from the door lock and call station. A link should also be

<p>provided. Refer to the earth bonding diagram 9452036 in the electrical wiring manual to ensure all grounding connections are made.</p>	<p>made between this stud and the corner upright. Door frame cross member and cover plate: Both the cross member and cover plate have earth studs; these should be linked together and then linked to the corner upright.</p>
<p>11 Wiring</p>	
<p>External lifts will use separate landing door lock and call station cables; so instead of an 11 + earth cable, the landing door lock will use a 7 core cable and the call station will use a 5 core cable. This is to ensure the door frame or corner upright do not need to be drilled out to accommodate the cable. External lifts use a Memco C100 autodial, located within the front panel and require a programming tool. The thermostat for the optional shaft fan is located in the shaft roof; please ensure this is set to a suitable level. Oil heaters must be wired into a separate 3-amp switch spur.</p>	
<p>12 12 Hoop</p>	
<p>The External Hoop remains much the same as the internal Hoop assembly, However it is larger to account of higher side loading imparted on the external lifts. Please see the note opposite for tightening torque.</p>	<p>Setting torque for hoop beam to beam fixing bolts, M12 x 90mm length (510759) = 65 N.m</p>

Issue	Name	Changes	Date
Issue 1	H Kingston-Jones	First issue	23/01/2017
Issue 2	T Lloyd	Updates to canopy and roof sections.	10/03/2020