



Storm Shield Retrofit Instructions



Storm Shield is a spray suppressant shield for use on PLS Access Lifts, designed to extend the life of lifts when operating in extreme weather conditions. Storm Shield is easily retrofittable.

Storm Shield Retrofit Instructions

Storm Shield for Box

The following information relates to Storm Shield for the lift box, read on to find details for Storm Shield for your Power Pack.

Parts Supplied

- 1 off Storm Shield (310mm tall, width to suit box)
- 6 off M6 x 20mm hex head flanged bolts
- 6 off M6 Nylock halfnuts
- 6 off Washers

Tools Required

- Battery drill
- 6mm drill bit
- M6 bit

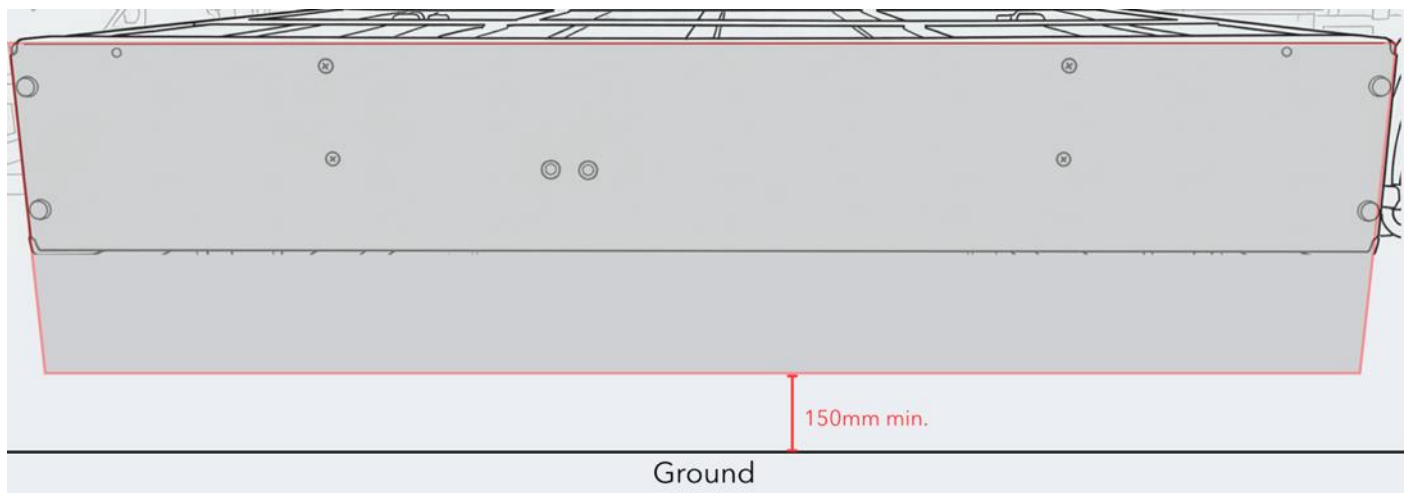
Fitting Instructions

Determine position of storm shield

The Storm Shield provided will be cut to the same width as the lift box you're working on.

As standard, we suggest that the Storm Shield is fitted with the top edge flush with the top of the lift box.

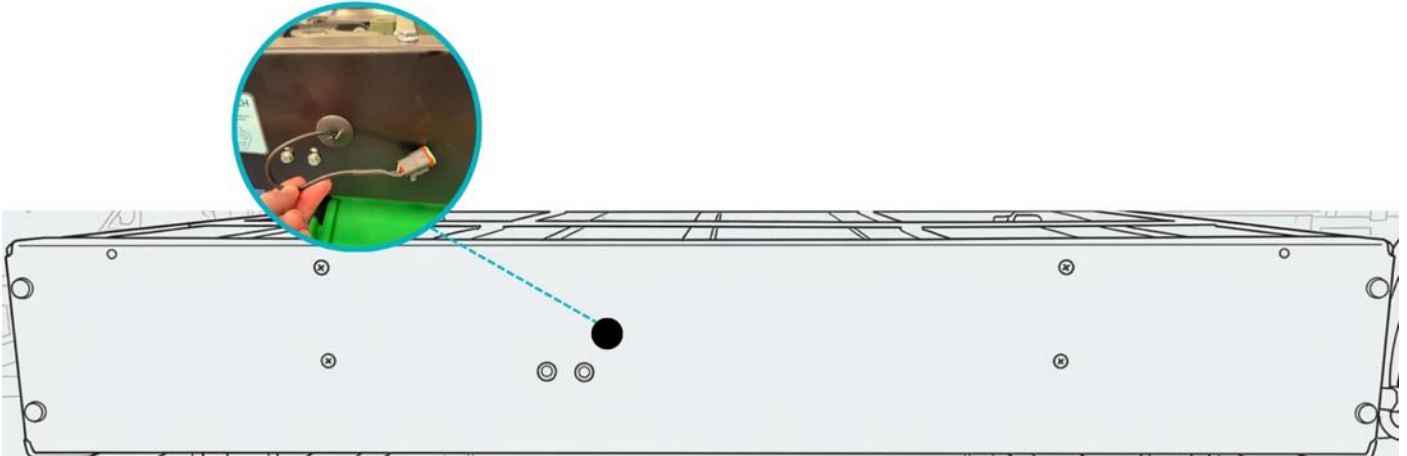
Critical Care Point: because ground clearance can vary by vehicle, we suggest you have at least 150mm ground clearance from the bottom of the Storm Shield. If you cannot achieve this ground clearance the Storm Shield can be moved upward so that it sits above the top of the lift box, but be cautious of any potential clashes with vehicle suspension components. If you are still unable to achieve an acceptable ground clearance, please contact PLS and a custom sized Storm Shield can be provided.



Check the Stow Signal Connector

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Look at the back of the lift box and see if the Stow Signal Connector is in use.



If the connector is not in use

You can feed the connector and attached wiring loom back through the black grommet.

Then remove the two fixings below the grommet that hold the mounting bracket for the Stow Signal Switch in place.

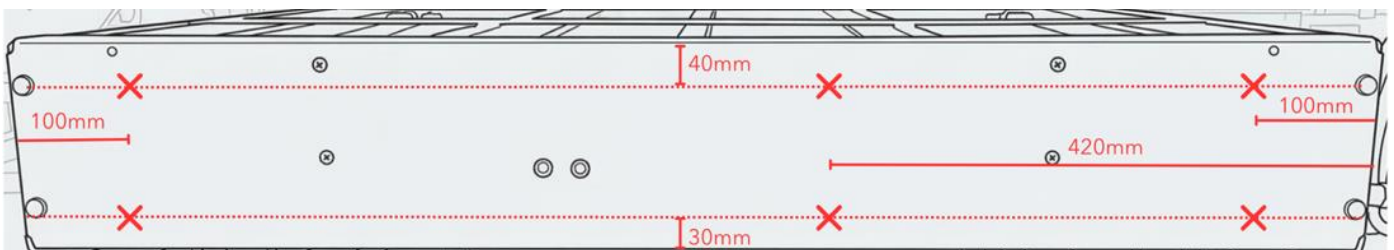
If the connector is in use

If the connector is in use, first disconnect it.

Cut a small hole in the Storm Shield using a hole saw, the connector can then be fed through this hole when you mount the Storm Shield.

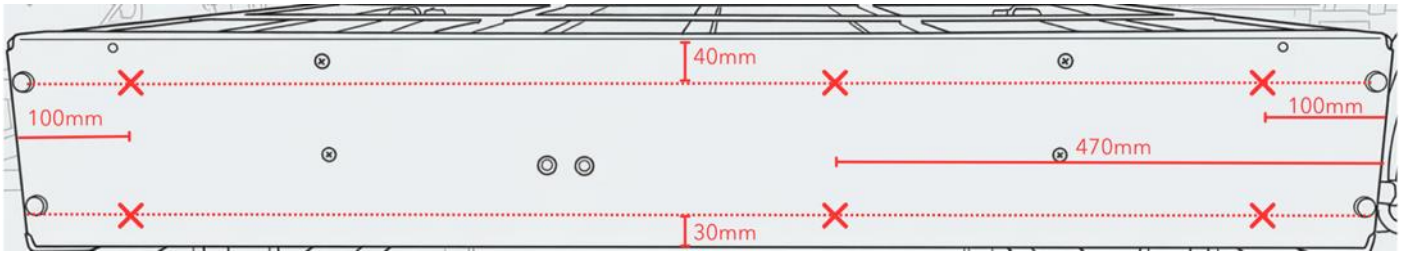
Note: Some vehicle convertors may hardwire the Stow Signal loom. If this is the case, please contact PLS for further support.

1000mm wide box



Storm Shield Retrofit Instructions

1100mm wide box



Before starting any drilling, remove the bottom sheet for the lift entirely and set aside.

Deploy the carriage slightly so that you can ensure your drilling positions are clear of any internal components including umbilical and centre rack.

Drill the box

Once you're satisfied with your drilling positions deploy the carriage further to ensure no risk of damaging components while drilling. Drill a 6mm hole in each position.

Note: we strongly recommend treating the new hole with an underbody protection (e.g. Underseal) or a rust blocking spray (e.g. ACF-50 available from PLS).

Drill the Storm Shield

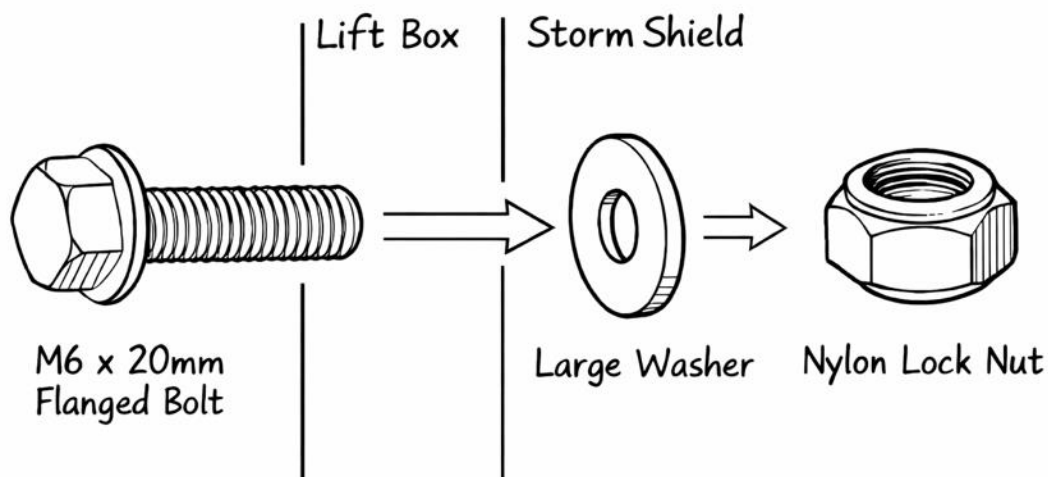
Mark the Storm Shield with the relevant positions you will need to drill.

Drill all six 6mm holes in the Storm Shield to match the holes you just drilled in the box.

Fix Storm Shield in Place

Using the six fixings provided, bolt the Storm Shield in place. The textured side of the Storm Shield should be facing the front of the vehicle.

The head of the bolt should be inside the lift box fed through the drilled hole and the Storm Shield, followed by the washer and finally the nylock nut as illustrated below.



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Final Carriage Check

Slowly move the carriage back into the box and do a final check for any potential clashes with internal components such as the umbilical.

Once you've confirmed there are no potential clashes you can refit the bottom sheet to the lift and stow the carriage.

Storm Shield Retrofit Instructions

Storm Shield for Power Pack

The following information relates to Storm Shield for the lift box, read on to find details for Storm Shield for your Power Pack.

Storm Shield for External Power Pack

- 1 off Storm Shield for power pack (220 x 310mm)
- 2 off M6 x 20mm hex head flanged bolts
- 2 off M6 Nylock halfnuts
- 2 off M10 x 25mm hex head flanged bolts
- 2 off Washers
- 1 off mounting bracket

Tools Required

- Battery drill
- 6mm drill bit
- M6 bit
- M10 bit
- Torque wrench (85Nm)

Note: The Storm Shield for power pack is supplied removed from it's bracket to allow you to position it with suitable ground clearance.

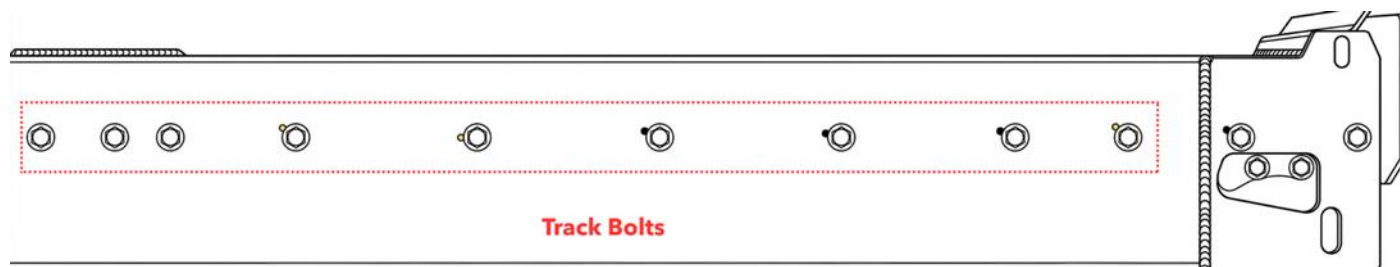
Fitting Instructions

Determine position of Storm Shield

The Storm Shield provided will be cut to a standard size (220 x 310mm). The supplied bracket is designed to fix through existing track bolts in the lift, however subject to your vehicle make, model, and specification, the position of the power pack can vary.

We suggest finding the mounting position that puts Storm Shield closest to the power pack (be sure to allow enough room for the power pack cover to be removed easily).

Note: Do not use mounting points that overlap the lift mounting bracket positions as this will require additional hardware and will mean the lift requires a new LOLER examination before it can be safely operated. The supplied bracket is designed to accommodate a range of positions and provide you maximum flexibility. If you are unsure when selecting a mounting position, contact PLS for support.



Fix the Bracket to the Box

Remove the identified track bolts from the side of the box. Place the bracket in position and secure using the two new M10 x 25mm bolts supplied.

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Tighten the track bolts to 85Nm torque.

Mark Storm Shield for Drilling

We suggest positioning the Storm Shield for your power pack with the same ground clearance as the Storm Shield fitted to the rear of the box, and always a minimum of 150mm from the ground.

Position the Storm Shield and mark the necessary drilling positions.

Drill two 6mm holes in the marked positions.

Fix Storm Shield to the Bracket

Using the six fixings provided, bolt the Storm Shield in place. The textured side of the Storm Shield should be facing the front of the vehicle.

The head of the bolt should be facing the power pack, fed through the drilled hole and the Storm Shield, followed by the washer and finally the nylock nut as illustrated below.

