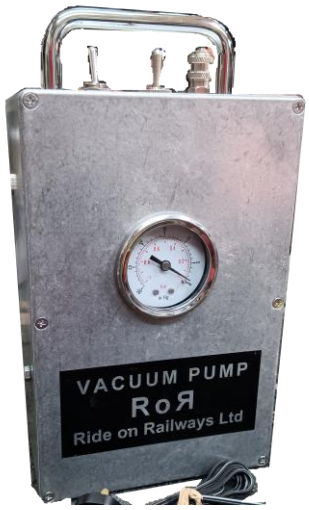
Ride on Railways Ltd

PUMP BOX



Specification

12v 5ah sealed lead acid batter

12v 10w Vacuum Pump

Operation

Switch the left switch to on position

For Vacuum push right switch back to latched position to switch pump on. Pump will run until vacuum reaches 16” Hg (mercury).

To release the vacuum pull switch in to sprung side and solenoid will open and release the vacuum. Let go of the switch as soon as the gauge shows the pressure you want.

There is no room for a filter in the box. Please make sure the one supplied is used at all times. Dirt sucked in to pipes can cause issues components – especially the pump.

Charging

Plug in the charger and leave. The charger will drop in to trickle charge when the battery is fully charged.

Use

The pump is a small pump in a contained area. It is not designed to be run for long periods. To do so will lead to it over heating and burning out. As an estimate if the pump is run for 1 minute it will need 3 minutes to cool down.

Battery should be as fully charged as possible and never use more than 50% of the 5ah capacity. To the right is a rough guide of voltage to capacity.

Letting the voltage drop too low will reduce the capacity and life of the battery

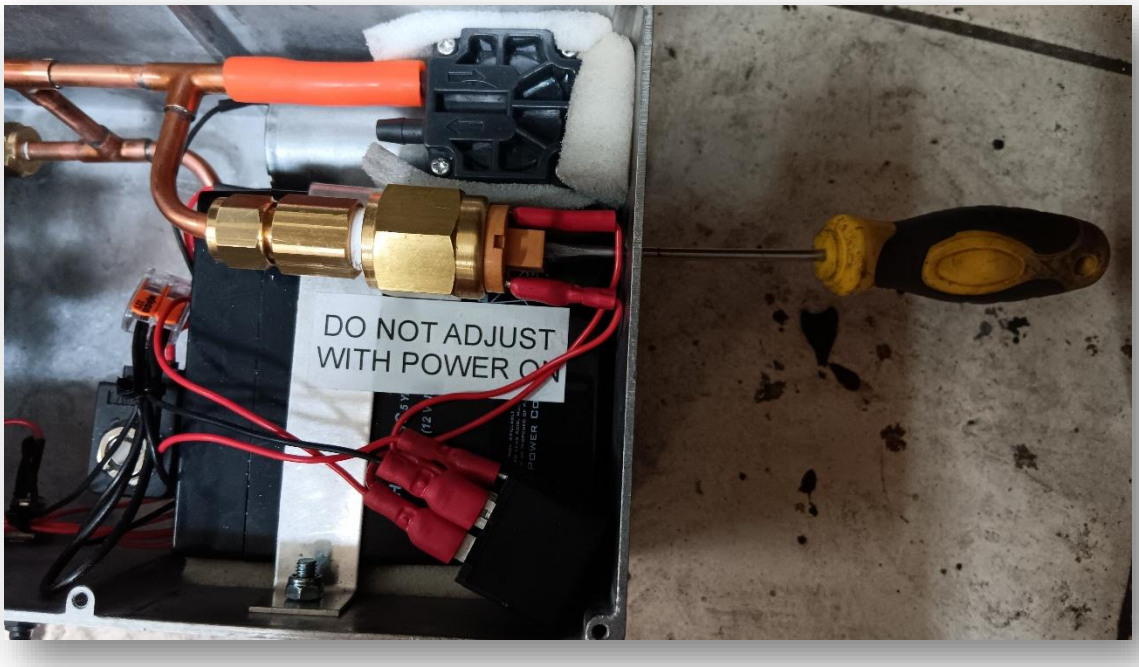
Voltage	State of Charge
12.6+	100%
12.5	90%
12.42	80%
12.32	70%
12.20	60%
12.06	50%
11.9	40%
11.75	30%
11.58	20%
11.31	10%
10.5	0%

Adjustment

Pressure can be reduce by adjusting the limiting switch. To do this open up the box and using a small flat bladed screwdriver inserted from the bottom of the box turn the screw in the end of the switch.

WARNING

Do not adjust pressure switch while there is power applied unless you have a sleeved screwdriver. The box is grounded and the adjustment screw becomes live when switch makes contact. This results in a short between the switch and casing.



Above – showing screwdriver for adjusting the pressure switch. **Do not do this with power applied** unless the screwdriver shaft is sleeved.

This is your box. Please feel free to open it up and familiarise yourself with the layout and operation.

The box can be used as a power supply via the charging socket but remember the limited capacity of the battery.

If you have any issues or questions please do get in touch

Paul

