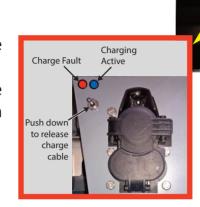




VEHICLE ON CHARGE

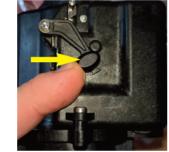
If the bus is charging.

In order to disconnect the charger, the charge port is on the rear right hand side. Push the switch down to release the charge plug, the light will go out, you can then remove the charge lead.



If the switch fails to release the lock, there is a mechanical release behind the mounting plate on top of the moulded socket. Push the lever to the right to release the lock.





Push lever to the right to release lock

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EMERGENCY RESPONDER GUIDE

For

Enviro 500 SuperLo EV

Fitted with

Proterra High Voltage Battery Pack



This vehicle contains:

High voltage Lithium-ion batteries in specialised rear compartments High voltage equipment in rear compartment and engine bay High voltage cables in rear compartment and engine bay

Enviro500SuperLo -First Responders Guide - Pub No 2799

December 2019





⚠ WARNING

Lithium-ion batteries use a carbon negative electrode and a Lithium Cobalt Manganese Nickel Oxide positive electrode. The electrolyte is a solution of lithium hexaflourophosphate in a mixture of organic solvent. Exposed electrolyte solution is corrosive and may be flammable in sufficient concentration.

- Wear full protective clothing including helmet, face mask and self-contained positive pressure or pressure demand breathing apparatus.
- Exposure to excessive heat may lead to venting or rupture of the sealed battery, exposing the internal components which are corrosive and flammable.
- DO NOT USE Class D fire extinguisher.
- USE CLASS A, B or C fire extinguishers for small fires.
- USE WATER for large fires.



- Be familiar with and follow applicable National, State/Provincial and Local Fire and Safety Regulations.
- This is an Electric Drive vehicle which contains 800 VDC and 230 VAC high voltage equipment in the rear compartment.
- High voltage cables can be identified by an **orange** outer covering. A High Voltage Disconnect Switch protects all circuits and components, BUT it is still possible to receive a fatal electric shock from the system!
- Use extreme caution when handling, orange high voltage cables or Electric Drive components, as this could result in severe injury or death!
- If working near high voltage cabling or components, use 1,000 VDC electrical gloves, rubbersoled shoes and make sure you and the surrounding area are DRY!

EXPOSURE HAZARDS

- Eyes Not dangerous with normal use Eye contact with contents of an open battery can cause severe irritation or burns to the eye.
- Skin Not dangerous with normal use Skin contact with contents of an open battery can cause severe irritation or burns to the skin.
- Inhalation Inhalation of materials from a sealed battery is not an expected route of exposure Material emitted from a ruptured battery may cause respiratory irritation.
- Ingestion Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

FURTHER BATTERY PRECAUTIONS

Battery Venting Scenario

If the High Voltage batteries are experiencing a thermal event/venting scenario, the ducting directs the high temperature gases to the rear left hand side of the vehicle.

Exhaust ports are clearly visible on the side of the vehicle, and fire crews may direct water into these areas to help cool the battery packs if required.



Battery Pack Ducts (access panels removed)

IMPORTANT NOTE:

Due to the construction and chemistry of the battery packs, the packs may re-ignite for up to 48 hours after visible flames have been extinguished. This re-ignition may be coupled with pops and bangs emanating from the battery pack areas.

Report actions and vehicle state to first responders upon arrival

To secure the vehicle

Place a chock under a safely accessable wheel, to prevent unintended vehicle movement.



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EMERGENCY SHUTDOWN AND EVACUATION PROCEDURES

Secure the vehicle.

Apply parking brake. Shift to Neutral gear.

Open the doors.

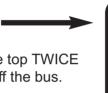
The control is situated to the left of the driver in the side console adjacent of the parking brake control.

Vehicle Shut Down.

Switch off on dash or press emergency stop switch.







Push at the top TWICE to power-off the bus.

DO NOT CUT THE ORANGE CABLES OR FORCE OFF CONNECTORS

Isolate the HV systems using the HV master switch at the rear of the vehicle.

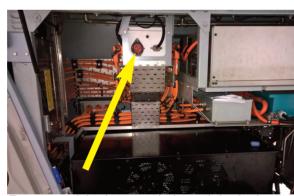
The switch is situated centrally in the engine bay, near the top.

Rotate the switch anti-clockwise until it stops to make the HV circuits safe.

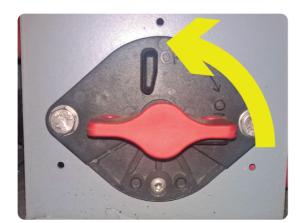
Isolate the 24V systems using the battery bay master switch.

The low voltage main switch is located in the battery bay on the lower rear left hand side of the vehicle.

Rotate the switch anti-clockwise until it stops to shut off the 24V supply.



Rotate red isolator switch anticlockwise to isolate electrical systems



FIRST AID MEASURES

- Eye contact If eye comes in contact with contents of an open or damaged cell or battery, immediately flush the contaminated eye(s) with lukewarm water for at least 30 minutes. Get medical attention immediately. Rinse eye with calcium gluconate solution (1%) until arrival of doctor. Continue rinsing.
- Skin contact If skin contact with contents of an open battery occurs, immediately flush with lukewarm water for at least 30 minutes. Thoroughly wash (or discard) clothing and shoes before reuse.
- Inhalation If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air and seek medical advice.
- **Ingestion** If ingestion of contents of an open battery occurs, rinse mouth thoroughly with water. **DO NOT** induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.

IN THE EVENT OF A BATTERY SPILL

The Electrolyte and its fumes are toxic. Wear full protective clothing, including helmet and face mask, and self-contained positive pressure or pressure demand breathing apparatus. Stop the flow of Battery Electrolyte, if this can be done without risk. Contain spillage from a damaged or open cell or battery with dry sand or an absorbent cloth. Battery Electrolyte is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

ENTERING THE VEHICLE

ONLY enter the vehicle if it is safe to do so. **ONLY** enter through the entrance door to retrieve the chock blocks, apply the parking brake and access the Ignition switch. Alternatively, if it is not safe to enter the vehicle, the parking brake and Ignition switch may be accessed through the driver's side window.

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Component Locations



