

Low Voltage Battery	High Voltage Battery	Electric Drive	High Voltage Junction Box	High Voltage Cable	Compressed Air Tank	HV / LV Disable	Emergency Exit	Break Glass Exit
24v Battery Disconnect	Emergency Stop Switch	Door Control	Electric Air Compressor	BTMS Air Conditioning	High Voltage Electrics	High Pressure Gas Struts	Lifting Point	Auto Fire Suppression
Doc. Ref: 4019-2	Issue / Version Date: June 2025	Doc Standard: ISO 17840-2	Copyright © Alexander Dennis 2025 – All rights reserved	Page 1 / 4				

1. Propulsion Identification



Li-Ion / LFP Battery - Electric bus with optional overhead pantograph charging.

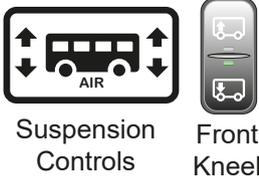
CAUTION:
Lack of noise does not mean vehicle is off:
Silent movement or instant restart capability exists until vehicle is fully shut down

Model Identification:

If present, the manufacturer logo is displayed at centre of the front of the bus. The rear panel may show the model name.



2. Immobilisation / Stabilisation / Lifting



Suspension height controls on driver's console.

WARNING:
In the event of electrical failure, the Electronic Parking Brake will not respond and wheel chocks **MUST** be used to prevent runaway.



3. Disable Direct Hazards

Safe Vehicle Shutdown Procedure



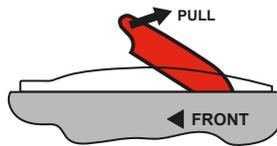
SELECT NEUTRAL



To confirm when vehicle is powered fully off:
• No illumination on instrument cluster and No lights on master or Ignition switches



APPLY PARK BRAKE



TURN OFF IGNITION



TURN OFF MASTER SWITCH



HV Isolation

Emergency Stop Switches

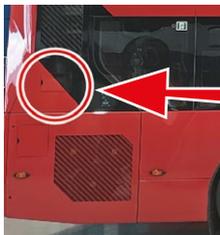
Safety Isolation:
Lock out all electrical systems



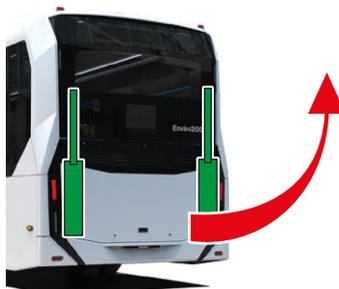
Secure with a padlock.



OR



OR



4. Access to the Occupants



Escape Glass in side elevation windows

1 To open the doors from outside, push the emergency button.

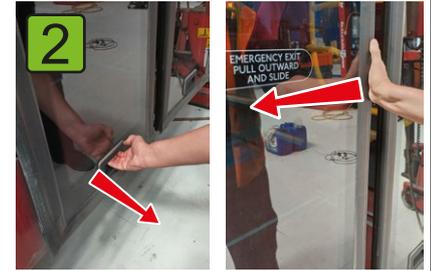
To open the doors from inside, push the emergency button located near the top edge of the doors.

Lift the flap and push the button to release the doors.

If the doors do not operate they can be pushed open manually.

2 Centre / Exit doors: Pull the door outwards using the handle at the bottom then Slide the doors open.

3 Front/entrance doors: Push the outer edge inwards, then pivot the door into the bus.



External Emergency Exit Button



Internal Emergency Exit Button

5. Stored Energy / Gases



750V Li-Ion



Refrigerant.
HFO-R407C



Do not cut **orange cables** or open high voltage enclosures.



Ethylene Glycol
Hazards: H302, H373

Contact with liquid or refrigerated gas can cause cold burns and frostbite.

6. In Case of Fire



Do not spray water directly into the Drive Bay.
Battery Product identification:
Lithium iron phosphate (LFP) Battery Packs
Chemical Class:
ADR Class 9 – miscellaneous dangerous goods.



DO NOT USE WATER ON BATTERY FIRES:
CO2, metal fire-ex powder or dry powder fire extinguishers are acceptable.

⚠ WARNING: Do not submerge vehicle to extinguish fire.

Auto fire suppression in drive bay.

⚠ Battery Re-Ignition

Where a battery fire is experienced or suspected, monitor for at least 48 hours with thermal fire detection equipment.



Thermal Fire
Detection Recommended

7. In Case of Submersion



Isolate HV



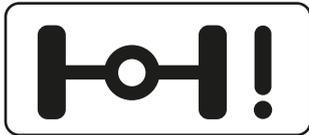
As for **Section 3 - Disable direct hazards.**

Follow safety routines once out of water.

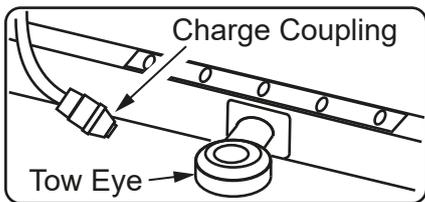
8. Towing / Recovery



Ensure vehicle is in neutral then isolated.
Apply wheel chocks to prevent movement.
Wind off park brake actuators to release park brake.



Remove half-shafts or drive shaft when towing.
or
Elevate and support drive axle.

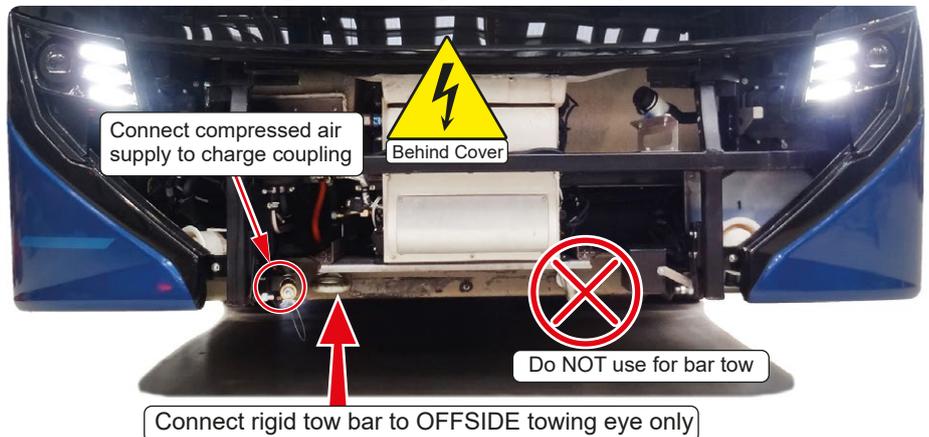


Connect tow bar to OFFSIDE towing eye only.
or
Use A-frame on both towing points at front.

Connect air to Charge Coupling if necessary



Twist locks to release front panel



Connect rigid tow bar to OFFSIDE towing eye only

For rigid bar towing, only the OFFSIDE eye must be used, as indicated, to prevent damage to the front components.

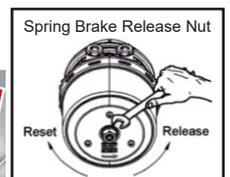
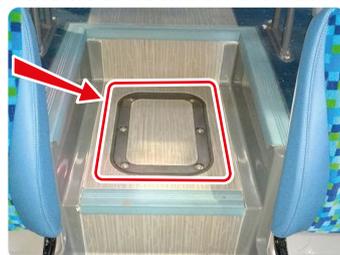
The vehicle may be towed using both front towing points and an A-Frame.



Open panel and lift out and away from the clips

MANUAL PARK BRAKE RELEASE

Access to the drive axle actuators is via an access panel on the floor between the rear seats over the rear axle.



24MM



Use a 24mm spanner to wind the actuators off to release the brakes.
When the vehicle is towed, the rear half-shafts must be removed to prevent damage to the axle or drive motor. Alternatively the propshaft may be removed or the rear axle lifted off the road

CHOCK WHEELS BEFORE PROCEEDING



⚠WARNING:
In this condition the brakes are completely inoperative.
Wheels **MUST** be chocked.

9. Contact Information

Alexander Dennis
Contact details for more information

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