

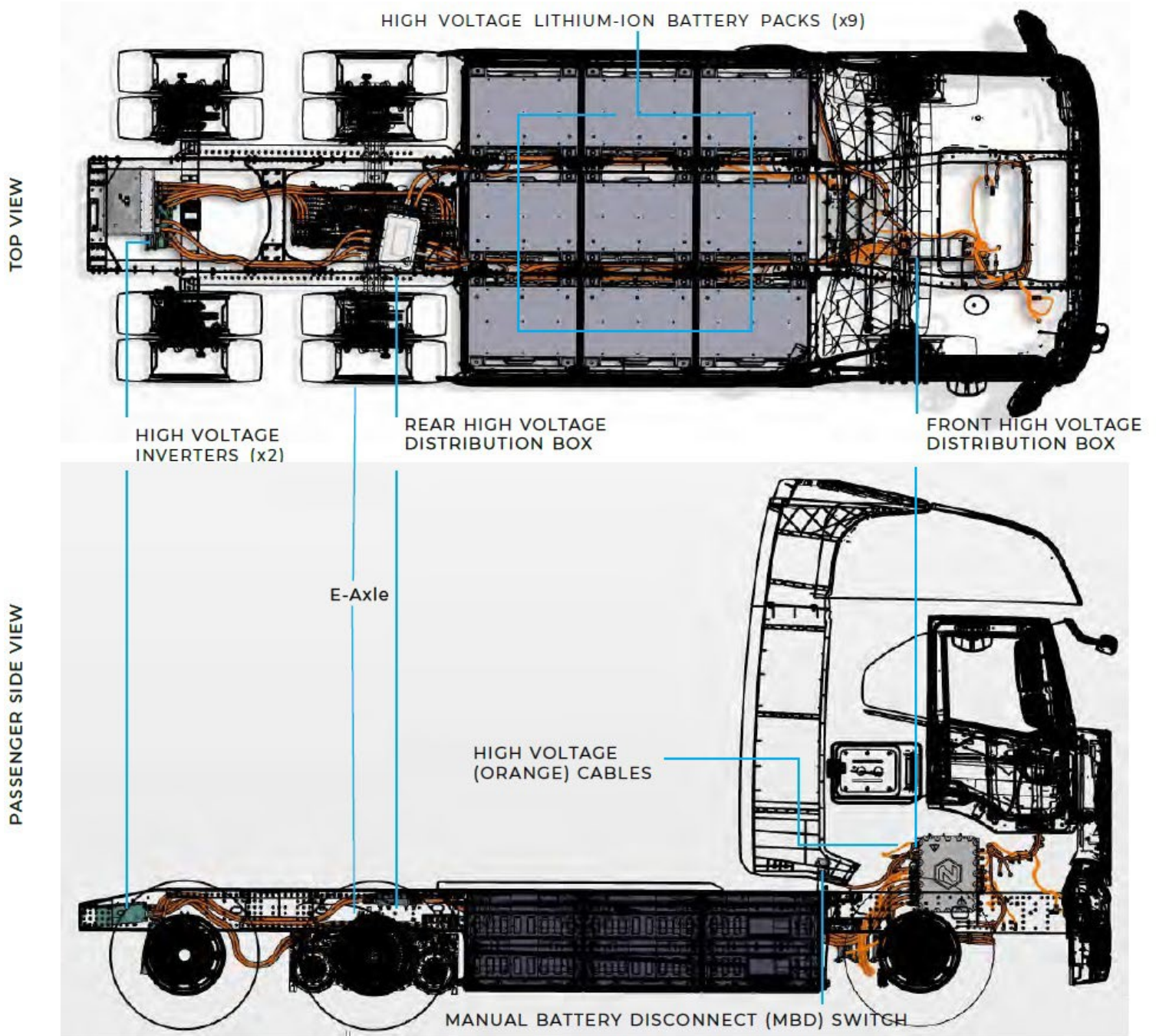


TRE BEV

Class 8 COE 2-Door Truck-Tractor
Model Years: 2022-



For further questions, contact Nikola at 888.690.3050.



All high voltage (HV) wires and harnesses are wrapped in orange insulation. NEVER cut these sections.

Do not attempt to touch without proper PPE (HV insulated gloves and boots, safety glasses, etc.).



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1. Identification/Recognition



Vehicle Identification Number (VIN):

All Nikola manufactured vehicles are equipped with a HV system. Nikola vehicles can be identified by the first three positions of the VIN which will always be "1N9."



2. Immobilization/Stabilization/Lifting

Immobilize the vehicle

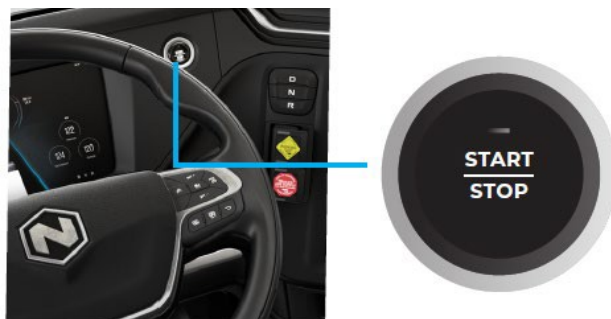
A. Chock the trailer and tractor wheels.



B. Activate the parking brakes by lifting up on the right side of both the yellow and red switches.



C. If the vehicle is on, turn of the vehicle by pressing the START/STOP button.



Do not touch, cut, or open high-voltage components and/or high-voltage batteries.

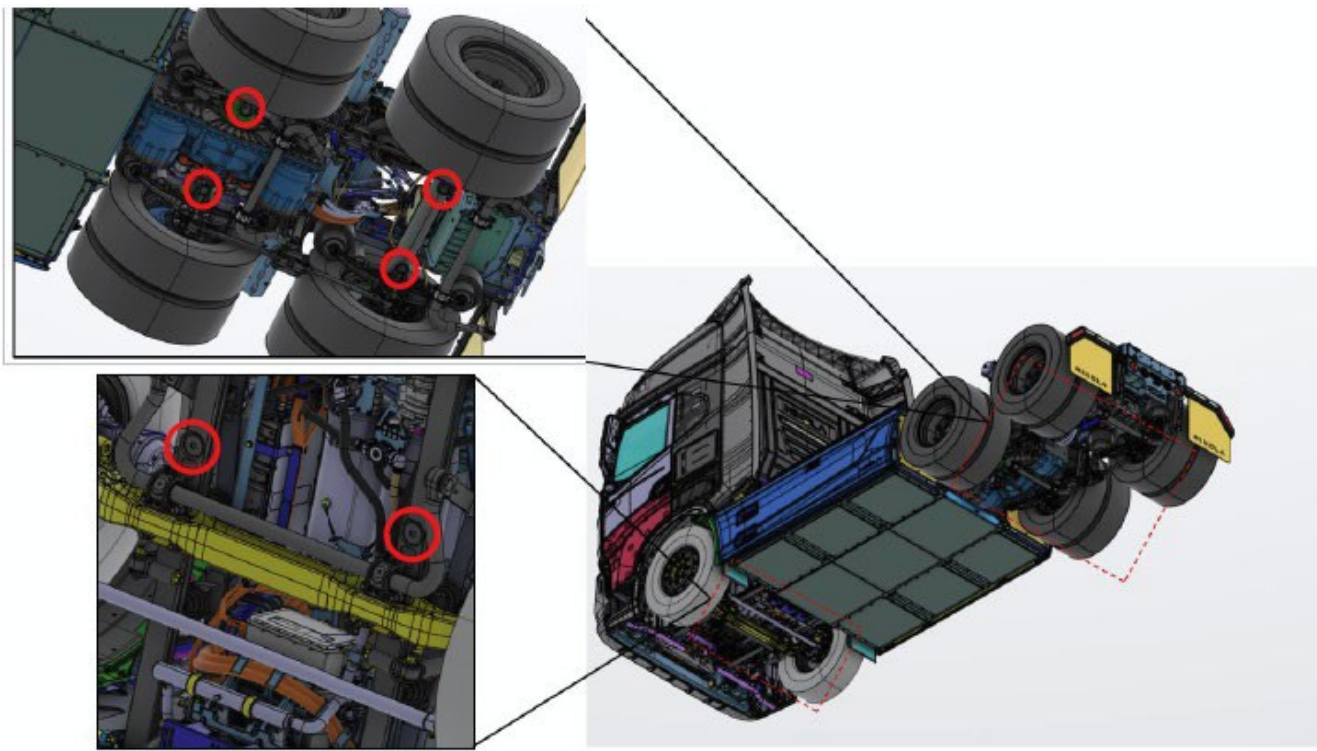
Always wear the full firefighting PPE and proper insulated electrical PPE (safety glasses, gloves rated for at least 1,000V, HV insulated safety shoes, etc.).

Remove all metallic jewelry including rings, chains, and watches.



Lifting points:

The Vehicle can be lifted/jacked at the points along each axle indicated in the figure below.



Never stabilize or lift the vehicle directly from the battery pack or anywhere along the high voltage system.



3. Disable Direct Hazards/ Safety Regulations

Main Disable Method



A. Fold passenger side aero fairing to access manual battery disconnect (MBD) switch

B. Locate the MBD switch

C. Turn the MBD switch counterclockwise (CCW) to OFF

D. Wait a minimum of **5 minutes** for the high voltage system to de-energize

MBD ON



MBD OFF



It is possible for the HV system to retain significant levels of voltage for a short duration after the system has been deactivated. Allow 5 minutes for voltage to de-energize before interacting directly with HV components.

The stored energy in the vehicle's batteries is not de-energized at deactivation, use extreme caution or avoid working around damaged batteries.

Do not touch, cut, or open high-voltage components and/or high-voltage batteries.

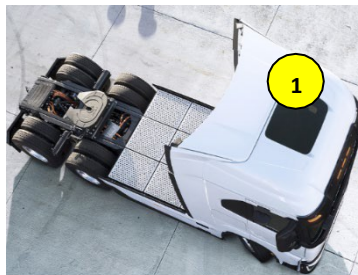
If vehicle is charging, disconnect the charger from the charging port if possible.

If the vehicle is powered ON while charging, the safety lock may prevent the charger from being released. Shut down the vehicle.

Always wear full firefighting and proper insulated electrical PPE (safety glasses, gloves rated for at least 1,000V, HV insulated safety shoes, etc.). Remove all metallic jewelry including rings, chains, and watches.



4. Access to the Occupants



Glass Types:

①	Tempered Glass
②	Laminated Safety Glass








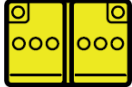










Electrical and mechanical components (seats, doors, steering wheel, etc.) may be compromised after a collision.

Extrication may be required.



5. Stored Energy/ Liquids/ Gases/ Solids

	     	<p>800V</p>
	    	<p>12V and 24V</p>
	 	<p>Refrigerant R1234yf</p>



If coolant escapes from the cooling system, there is a risk of thermal reaction within the high voltage battery system.

Monitor temperature of the high voltage battery for thermal reaction.



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6. In Case of Fire

USE COPIOUS AMOUNTS OF WATER TO FIGHT A HIGH VOLTAGE BATTERY FIRE. If the battery catches fire, is exposed to high heat, or is generating heat or gases, use large amounts of water to cool the battery. It can take over 2,600 gallons of water (applied directly to the battery) to effectively cool and extinguish a high voltage battery fire.

If a Lithium Ion (Li-Ion) HV battery is involved in a fire, there is a possibility that it could reignite after being extinguished. If available, use thermal imaging to monitor the battery. Re-apply water as necessary to cool the battery packs. Battery packs must be kept below 120°C (248°F). Do not store a vehicle containing a damaged or burned Li-Ion HV battery in or within 50 feet of a structure or other vehicle until the battery can be discharged.

High voltage batteries are in protective cases which make it difficult to spray water directly to burning cells. Applying large amounts of water may lower the HV battery temperatures enough to prevent the fire from spreading to adjacent cells.



Follow all safety guidelines and procedures before entering the emergency scene.

All personnel should wear and utilize full firefighting PPE and SCBA as required at all vehicle fires.

The use of water does not present an electrical hazard to firefighting personnel. Large amounts of water will be required.

There is potential for the lithium-ion battery cells to have a small leak if they are damaged.

Battery packs in close proximity to a thermal event are at risk of igniting. Apply copious amounts of water directly to the battery packs to cool them and prevent thermal runaway.



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7. In Case of Submersion

Battery-electric vehicles that have been submerged in water should be handled with greater caution due to the potential risk of a high voltage electrical battery fire. First responders should be prepared to respond to a potential fire risk. Pull vehicle out of water and allow water to drain out of the vehicle's high voltage battery pack. Follow section 3 of this document, **Disable Direction Hazards/Safety Regulations** once out of the water.



DAMAGED ELECTRIC VEHICLES IN WATER PRESENT A PONTENTIAL HIGH VOLTAGE ELECTRICAL SHOCK HAZARD. EXERCISE CAUTION AND WEAR APPROPRIATE PPE SAFETY GEAR, INCLUDING, BUT NOT LIMITED TO, HIGH VOLTAGE SAFETY GLOVES AND BOOTS.



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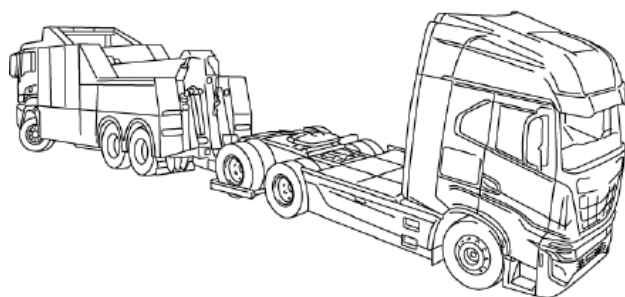


8. Towing/Transportation/Storage

The TRE BEV can be pushed at low speeds (below 3 mph) up to a total of 1 mile to clear it from the roadway. The vehicle must be placed in Neutral, and the parking brake must be disengaged prior to pushing.

The E-axle in the TRE BEV can generate power if the wheels spin during towing/transport which could lead to overheating and cause significant damage. Always transport with both rear axles off the ground and restrict wheels from spinning during transport. The truck should be in Neutral during towing.

High voltage components may be compromised because of a collision. Before transporting, it is important to assume these components are energized. Always follow high voltage safety precautions and avoid transporting until the HV system has been properly deenergized. Failure to do so may result in serious injury.



Damaged battery electric vehicles should be kept in an open area instead of garage or other type of enclosed storage facility until batteries have been properly discharged.

Follow all local, state, and federal guidelines for scrapping vehicles with a high voltage battery system.














The potential for battery re-ignition exists after a crash or fire incident. Vehicle should be stored outside at a safe distance (50ft minimum) from other vehicles and structures.

9. Important Additional Information

Contact Us:

First responders and training officers who have further questions may contact Nikola at 888.690.3050.

10. Explanation of Pictograms Used

						
Acute Toxicity	Caution/Danger	Corrosive	Electric Vehicle	Explosive	Flammable	Gases under pressure
						
Hazards to Human Health	High Voltage Battery	High Voltage Warning	Low Voltage Battery			