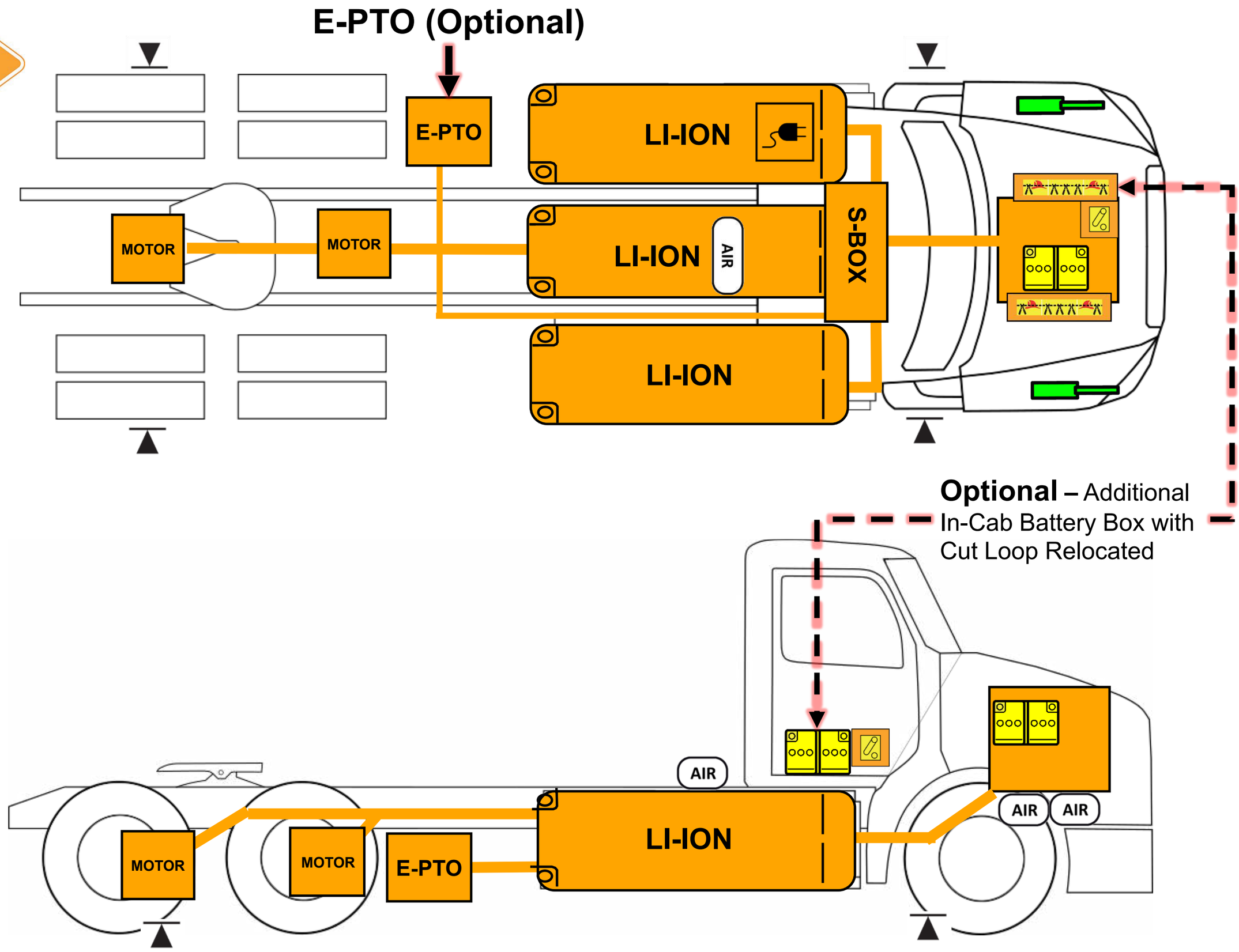
Peterbilt 579EV
Kenworth T680E
Model Year: 2022 – Current

0. Rescue Sheet

650 V



Warning: Check for labels identifying any additional High Voltage components added by body builders.

LI ION High Voltage Li-Ion Battery Pack	High Voltage Cables	12V Disconnect	Gas Strut	Emergency Cable Cut Loop
Charger Inlet (Forward or Rear)	High Voltage Region	Low Voltage Battery	Lift Point	AIR Compressed Air Tank

1. Identification / Recognition

Warning: Always wear full fire fighter PPE (turnout gear), including a positive pressure self-contained breathing apparatus, when approaching this vehicle.

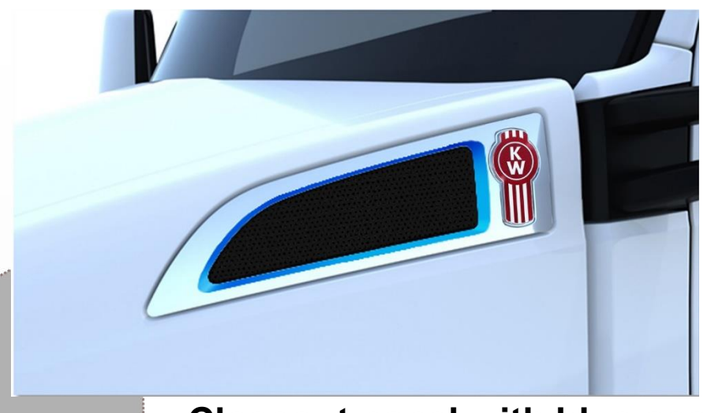
Peterbilt Model

Grill with blue accents

EV badge on both fenders

Kenworth Model

Grill with blue accents



Closeout panel with blue accent

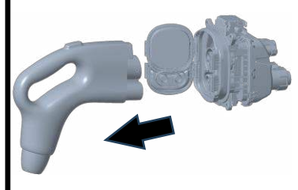
EV badge on both doors

2. Immobilization / Stabilization / Lifting

Warning: Keep all lift equipment at least 12 inches (30 cm) from all high voltage components.

Warning: Vehicle noise may be reduced in some operation modes. Failure to shutdown the truck before immobilization could result in death, severe injury, or property damage. **Complete Section 3 steps if possible before immobilization.**

Immobilization



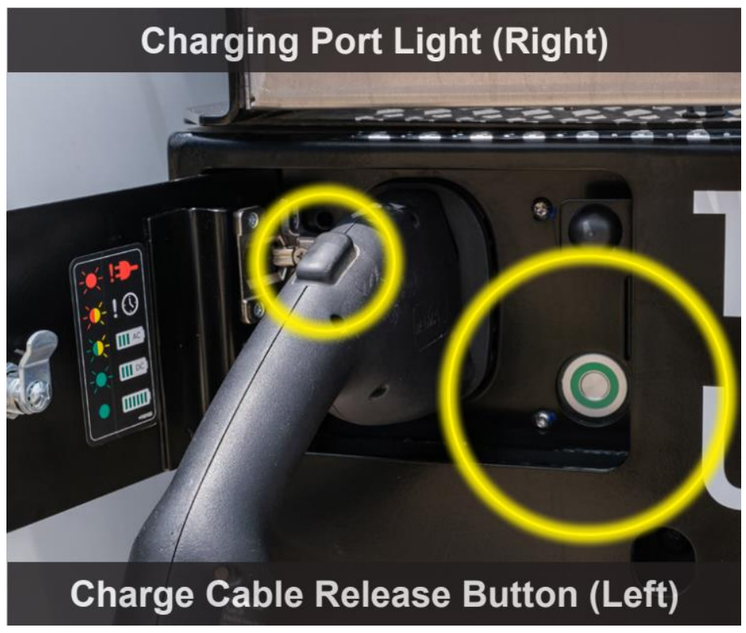
Step 1: Unplug the Charger Cable or Remove Power from the Charger.

Step 2: Ensure vehicle is in Neutral by using the gear selector on the right-hand stalk.

Step 3: Remove the Key from Ignition.

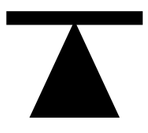
Step 4: Engage tractor/truck park brake by pulling out the **yellow** switch.

Step 4b: (If applicable) Engage trailer air brake by pulling out the **red** switch.



Rotating Truck
Wrap chains around both e-axles to rotate the truck to an upright stable position.

Note: Axles use high voltage. Use caution when rotating vehicle so that chains are not pulling or damaging orange high voltage cables.



Lifting

Only use the lift points identified in the rescue sheet diagram:

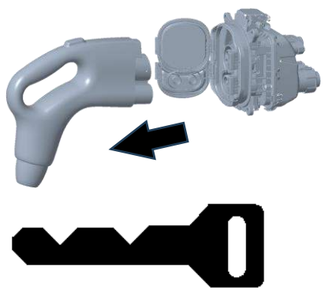
1. Lifting at the rear of vehicle: use the eAxle housing.
2. Lifting at the front of vehicle: use the steer axle.

3. Disable Direct Hazards / Safety Regulations

Warning: Assume all high voltage components are always energized. Do not cut any High Voltage components, including high voltage orange cables.

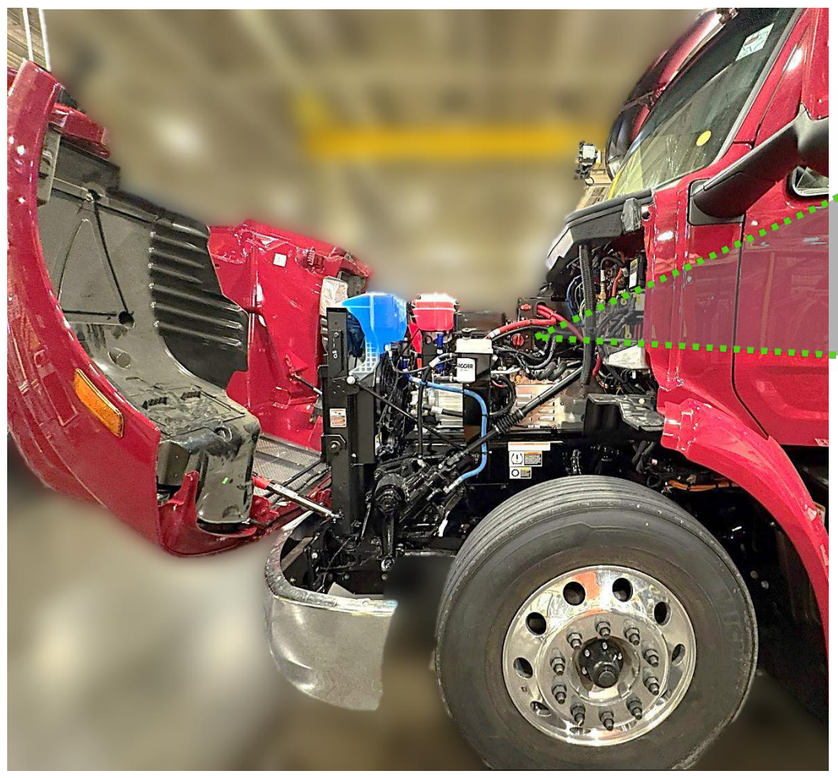
Warning: Cables between the high voltage battery and the S-box remain energized after the vehicle disable steps (including the 2-minute wait) are completed.

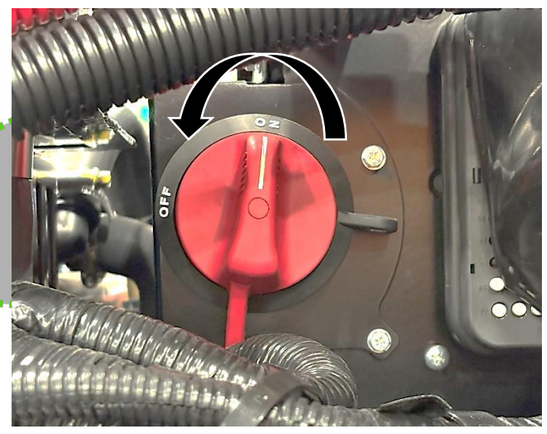
Note: Some models may be equipped with additional low voltage batteries and a relocated disconnect switch. **Optional** layouts are shown below.



Step 1: (If Truck is Charging) Unplug the Charger Cable or Remove Power from the Charger.

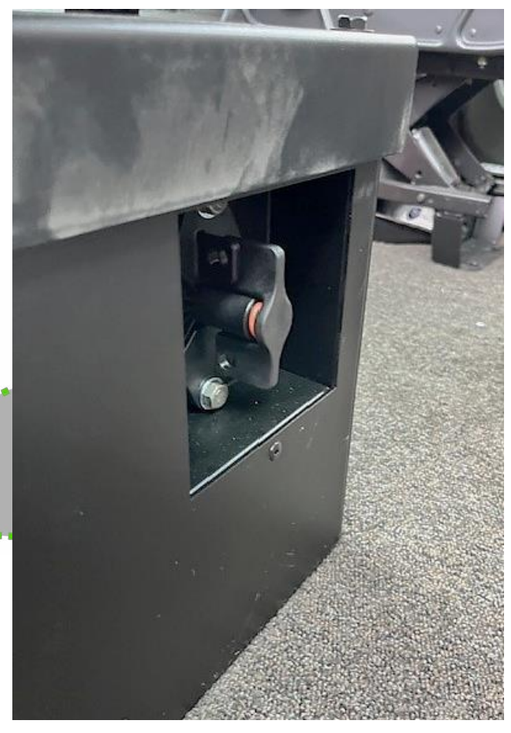
Step 2: Turn key to “Off” position and remove the Key from Ignition.





Step 3:
(Primary Step): Turn 12V Disconnect Counterclockwise to OFF Position.

Disconnect switch is located under hood on the street side of the vehicle.

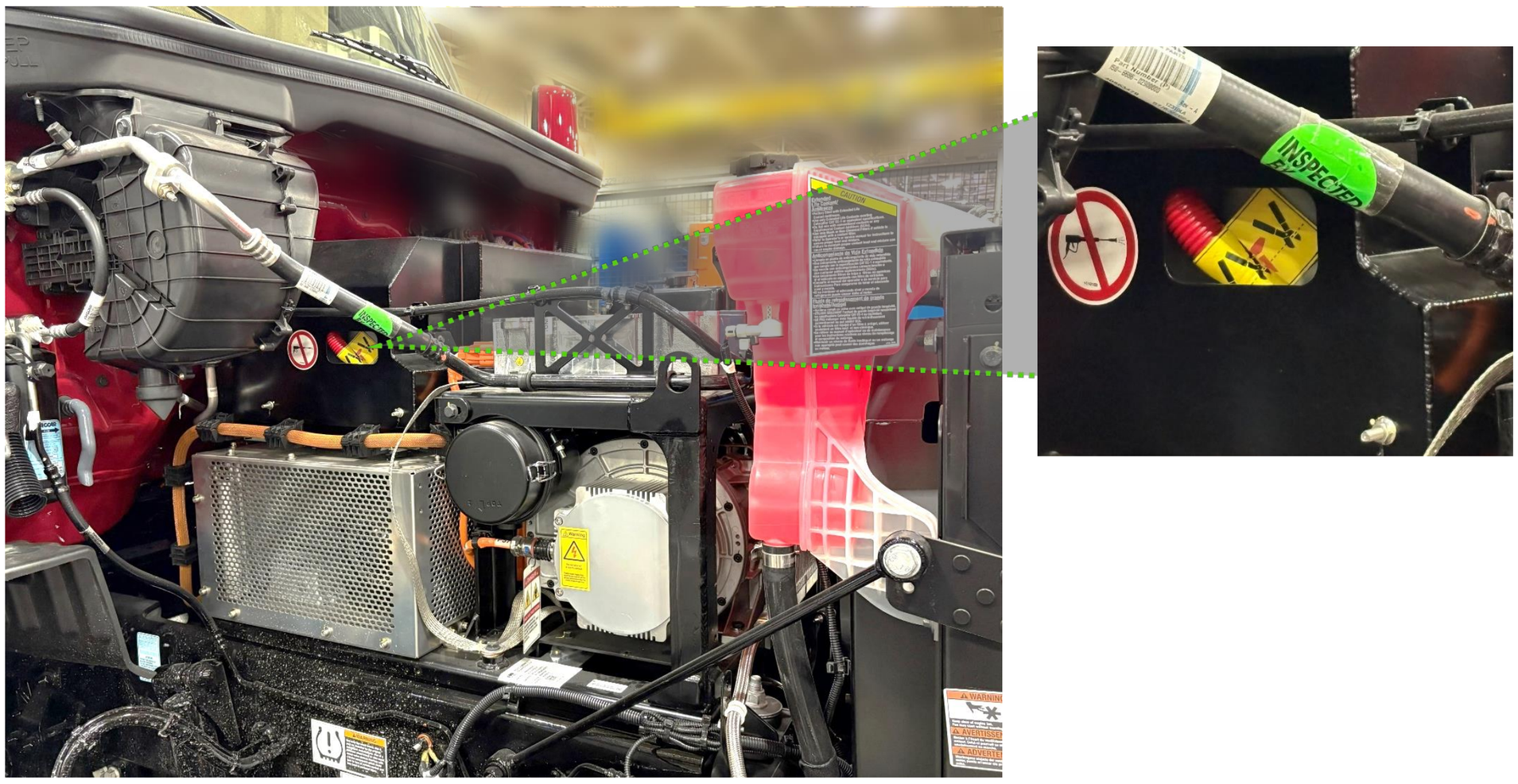


Optional – Disconnect Switch may be located inside the cab. It will be located on the forward face of the passenger seat base.

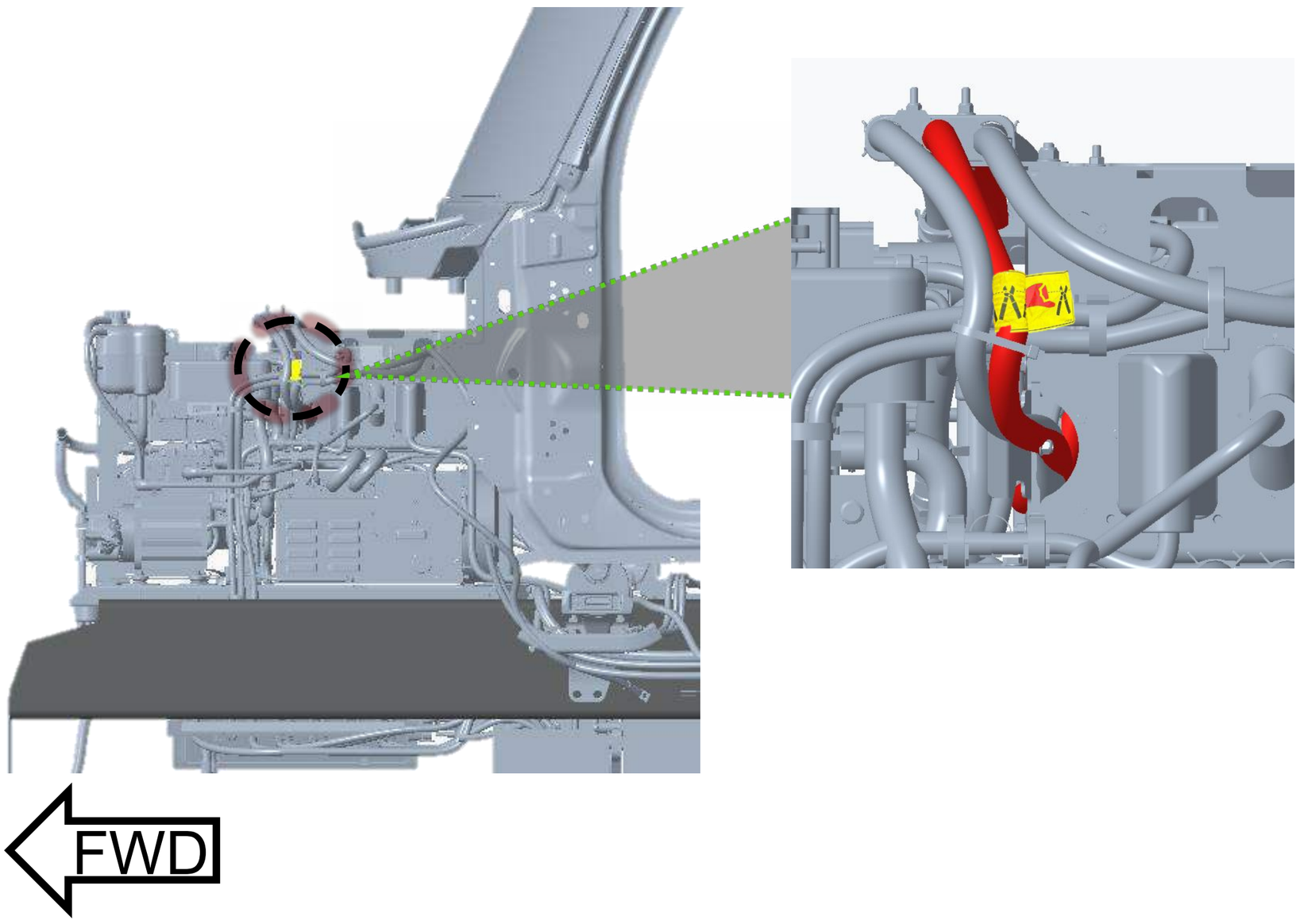
Step 4: Wait 2 Minutes for High Voltage Capacitors to Discharge.

3. Disable Direct Hazards / Safety Regulations

(Alternate Step): Cut a 5-inch (13 cm) segment (2 cuts) from the cut loop.
Cut loop is located under the Cab on the curb side of the vehicle.



Optional: If vehicle has an in-cab battery box, the cut loop will be located on the street side under the hood.



Open Doors From Outside

Step 1: Insert key (1) into door lock turning key counter-clockwise for left-hand door or clockwise for right-hand door to unlock.

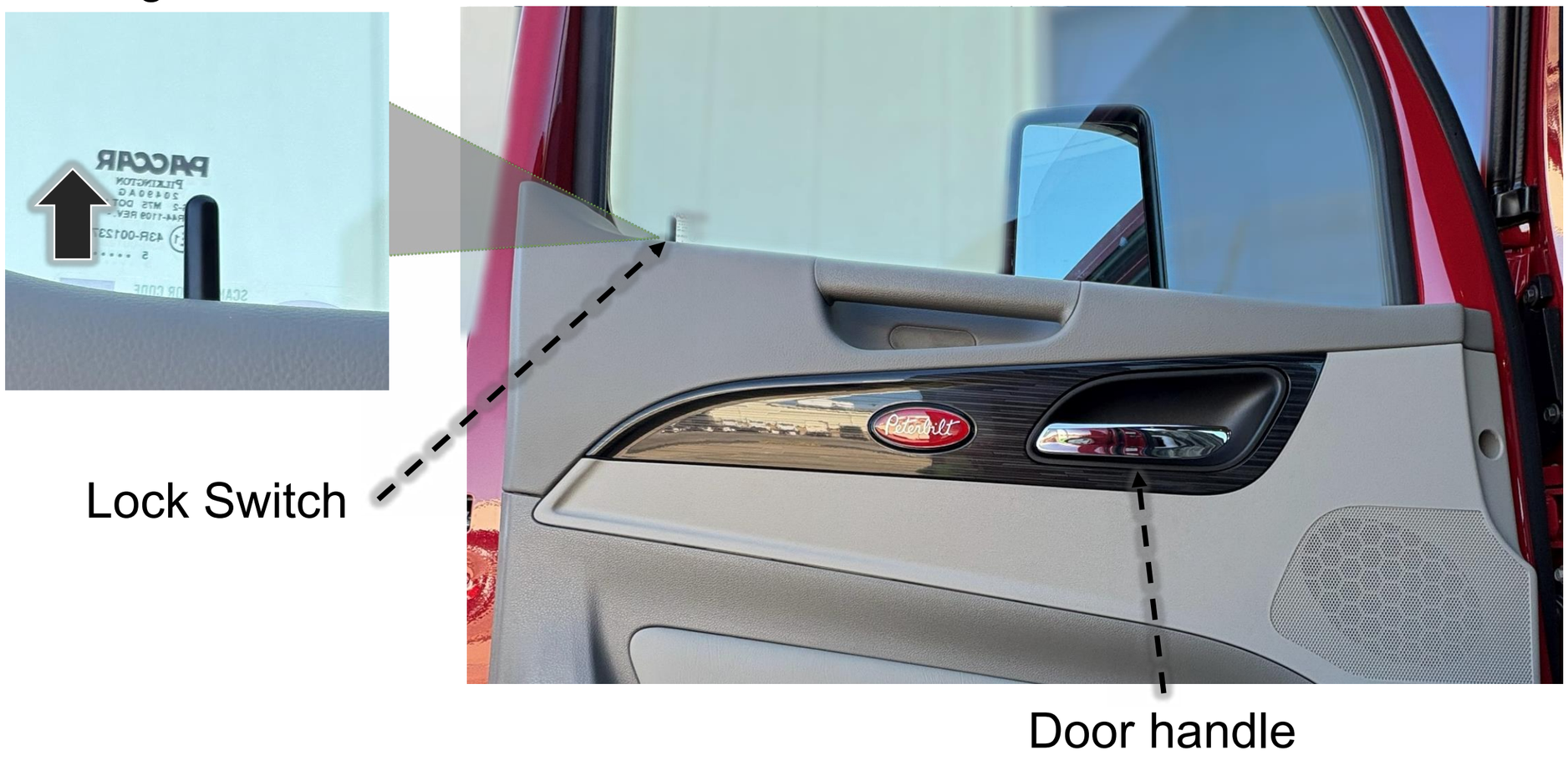
Step 2: Grasp door handle (2) and pull out while exerting some force on the door in the outward direction.

Open Doors From Inside

Step 1: Pull on door handle (1) to release door latch.
Step 2: Firmly push door outward.

Optional: Unlock by pulling up on lock switch.

Note: Peterbilt model (579EV) shown below. Kenworth model (T680E) door handle is in the same general location.



Seat Adjustment

1. **Forward/Backward Adjustment**: Push handle and push seat to slide forward or backward.

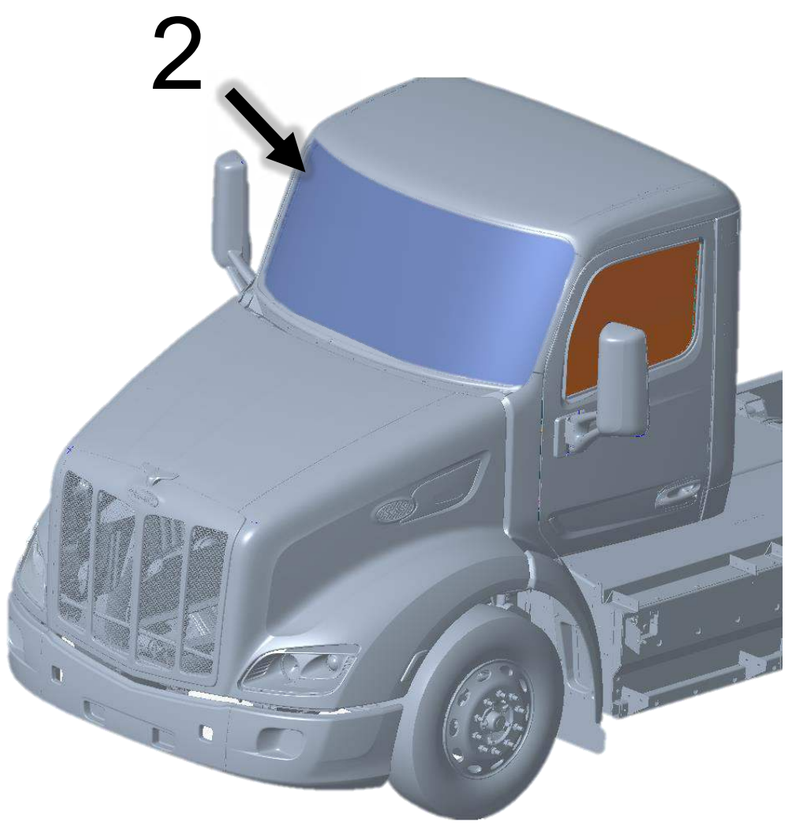
2. **Seat Up/Down Adjustment:** Press switch to adjust seat height.

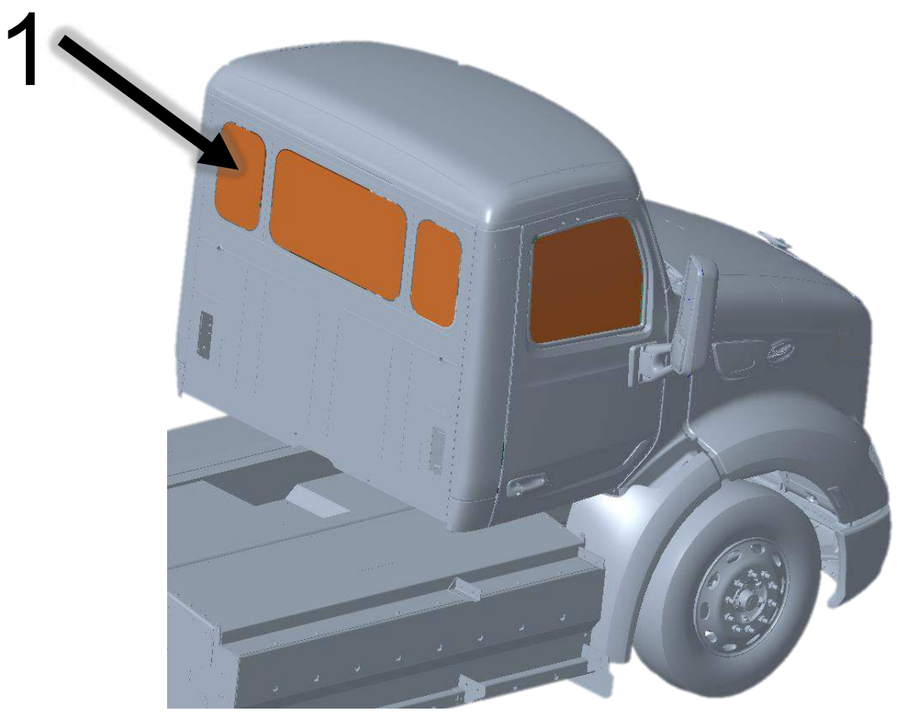
3. **Seat Recline Adjustment:** Pull handle to control seat back recline.

Window and Windshield Material

Windshield: Laminated Glass (2)

Door, Side and Back windows: Tempered Glass (1)



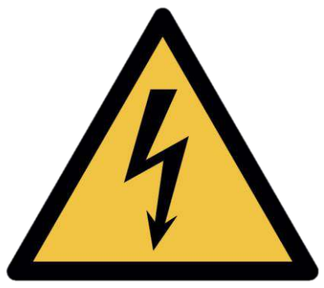


Cab Material

Note: There is no high strength or ultra-high strength steel present in the cab. The cab is predominantly made of aluminum material.

5. Stored Energy / Liquids / Gases / Solids

650 V

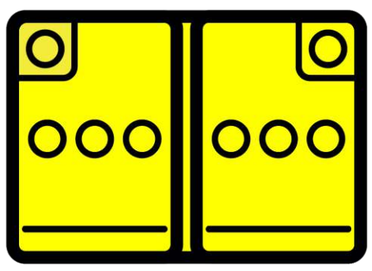


High-voltage (650V)

Corrosives

Flammable

Health Hazards



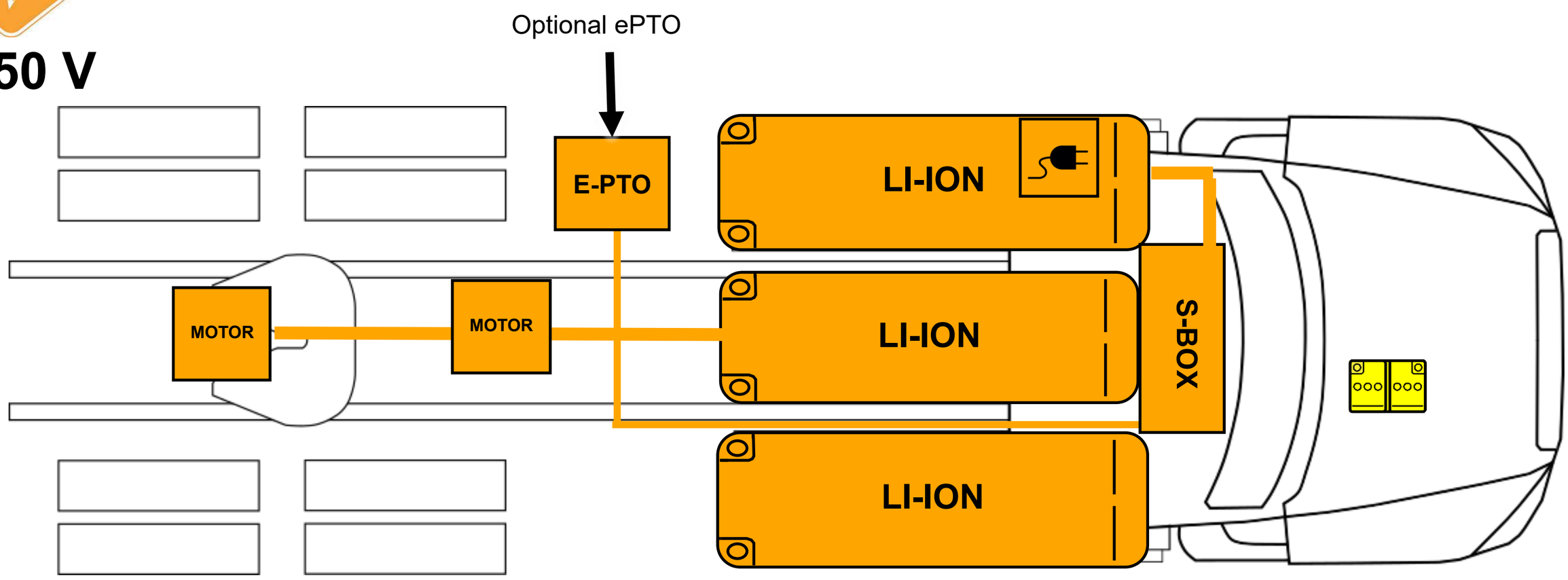
12 V

Corrosives

Flammable

Explosive

650 V



High-voltage Battery Locations: The system consists of two Energy Storage Systems (ESS) mounted on the outside of the frame rails and one ESS mounted between the frame rails; each one containing Lithium-Ion batteries.

The Center ESS contains four lithium-ion battery packs. The other two ESS contain two lithium-ion battery packs each.

Optional layout includes an in-cab battery box under the passenger seat. The battery box contains three 12V batteries and the disconnect switch on the forward face.

Air tanks and system hoses may have an air pressure of 100-130 psi (689-897 kPa).

High voltage components are cooled with a glycol-based automotive coolant. This liquid is red in color and may leak if components are damaged.

Please contact local and state authorities for more information regarding proper response and clean up of hazardous materials.

6. In Case of Fire

Warning: Always wear full fire fighter PPE (turnout gear), including a positive pressure self-contained breathing apparatus.

Warning: Treat fires involving charging stations as energized fires until power to the charger can be shut down.

Warning: Hydrogen Fluoride and/or Hydrofluoric Acid may be present.

Warning: There is always risk of reignition.

Use Water to Extinguish Li-ion Fires

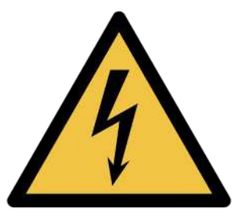
Do Not Use Wet Foam

Hazardous to Human Health:
- May cause an allergic skin reaction
- Do not breathe dust, fumes, gas, mist, vapors, or spray.

Flammable Components

Explosion Hazard:
- Explosive gas could accumulate.
- Move truck outside building after extinguishing fire

Corrosives:
- Causes skin burns and eye damage



High Voltage (650 V):
- CAT III (1000 V) rated gloves required for exposed HV parts

Check Li-ion Battery Pack for Fires with Thermal Infrared Camera (TIC or IR Gun)

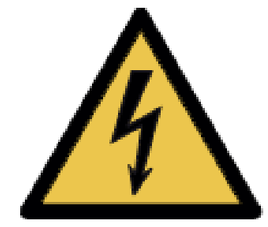
7. Water Submersion

If a vehicle has been submerged there is a chance of secondary damage to high voltage components around the vehicle. These components present a hazard and should only be handled while wearing the correct PPE.

If the vehicle does NOT have impact damage, there is a low electrical shock risk. Remove the vehicle from the water. Let the water drain and follow the immobilization steps in Section 2. Do NOT attempt to drive.

In case of submersion:

Step 1: Reference section 3 to disable any direct hazards and ensure parking brake is not engaged.
Step 2: Remove the vehicle from submersion (following the instructions in section 8).
Step 3: Drain as much water away from the vehicle as possible.
Step 4: Follow steps in section 3 to disable high voltage.



High Voltage (650 V)

Warning: Do NOT attempt to drive the vehicle after submersion.

Please follow state, municipal, and department guidelines for properly handling electric vehicle submersion events.

8. Towing / Transportation / Storage

- Follow Section 3 (Disable Direct Hazards).
- Use Lift Points in Section 2: Immobilization and the Rescue Sheet.
- If high voltage components were damaged or submerged, transport the truck with all wheels on a trailer. Do not attempt to drive.
- If high voltage components were NOT damaged or submerged, use the cage bolts and remove the axle shafts to tow (propulsion motor not spinning). Steps provided below.
- (Emergency) If the truck must be moved quickly AND no high voltage damage exists, it can be moved at less than 25 mph for no more than 5 minutes.

- Store outdoors, 50 feet away from other equipment/structures, and routinely check the
  battery pack for high temperatures with a Thermal Imaging Camera (TIC or IR Gun).

9. Important Additional Information

Do not cut any orange cables.

Do not touch any high voltage cables and electric components.

Do not perform any operation on a damaged truck without appropriate Personal Protective Equipment (PPE).

Keep all rescue equipment clear of high voltage components with a recommended clearance of 12 inches (30 cm) if possible.

Some vehicles may have an in-cab battery box under the passenger seat with three additional batteries and the low voltage disconnect switch on the forward face of the box.