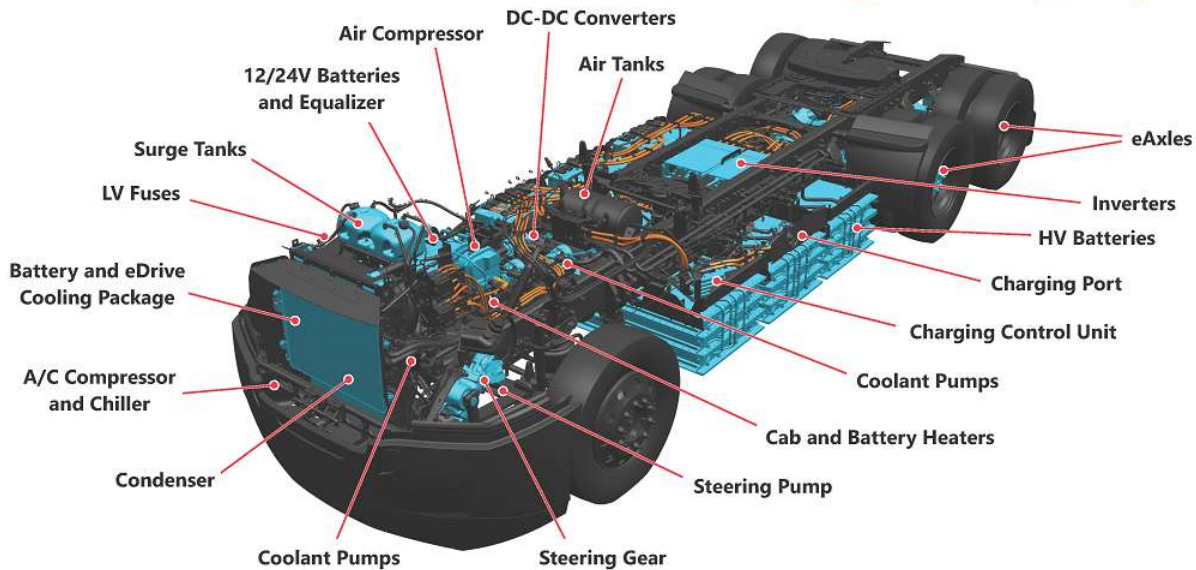


eCascadia/eM2 Dos and Don'ts with the High Voltage Systems



HV components cannot be serviced unless HV3 trained.

Front Box and Components

- Low voltage batteries can be serviced. Power steering and coolant pumps are low voltage. All other components are high voltage and cannot be serviced.

Thermal Management Systems

- The cab and battery A/C systems do not use standard oil and must be serviced by trained technicians only. When adding oil to the system a clean/dedicated handheld injector should be used. The coolant heaters are high voltage and cannot be serviced. The heater core inside the cab can be serviced as normal.

Cooling System

- Top off system if the surge tank is low. A vacuum fill tool is recommended to service the cooling system and it requires a proper bleeding routine to get all the air out (see coolant bleed procedure in workshop manual). If there is a minor leak at a clamp it can be tightened, and system level checked/topped off. For major leaks fill the system using the vacuum method (see label on surge tanks for factory filled anti-freeze).

Steering System

- Pumps cannot be serviced. Inspect the fluid level and add as required. Reservoir, gear, plumbing, and linkage can be serviced as normal (use standard power steering fluid).

Air Compressor (HV)

- The only service that can be done is to replace the air filter and check/change oil on compressor. Do not try to repair/diagnose the air compressor.

eAxles (HV)

- The only service that can be done is 1) to check eCarrier and housing oil levels, 2) to check and inspect mounting brackets for loose bolts and frame rails for damage or 3) service external components.

EVDM and Low Voltage Fuses

- The only service that can be done is 1) to inspect/replace fuses or 2) to inspect wiring for chafing or damage.

HV Batteries (HV)

- The only service that can be done is 1) to replace E/E box desiccant filter, 2) inspect mounting bracket for loose bolts and frame rails for damage or 3) check for leaks at and replace the coolant manifolds.

Charge Port (HV)

- The only service that can be done is to replace the lock actuator. The rest of the charge port is part of the high voltage system and cannot be serviced.

Inverters (HV)

- No part of the high voltage system can be serviced.

HV Cables (HV)

- Highlighted in orange. No part of the high voltage system can be serviced. Only check for chafing of the cables.

DC to DC (HV)

- No part of the high voltage system can be serviced.

Air Tanks

- Service as normal.

Fifth Wheel

- Service as normal.

Wheels and Tires

- Service as normal.

Lighting Systems

- Service as normal.

Suspension Systems

- Service as normal.

Front Axle

- Service as normal.

Brakes

- Service as normal.

Wheel Ends

- Service as normal.

Cab and Exterior Components

- Service as normal.

