

Electric Bus Service

Service Item Breakdown

Be aware that this list may not be all encompassing of the many components on a bus that need service or repair through its service life. If you have any doubt about component service or repair as it relates to electric school buses, contact Leonard Bus Sales prior to conducting any work. Note: In this document, "HV" is used as an abbreviation for High-Voltage.

Dealer Only Service Items

Only authorized dealer personnel may perform the services listed in this section. This work must be conducted at the dealer location.

- Disconnect high-voltage cables or components of any cable type, zone, or striping color.
- Remove, relocate, or access internally, any high-voltage component, typically but not always indicated with a high-voltage decal. This includes but is not limited to the following:
 - HV Distribution Unit
 - HV Distribution Module
 - Battery Thermal Management System
 - HV Power Steering Pump
 - DC/DC Converters
 - HV Traction Power Inverter Module
 - HV Drive Motor
 - HV Air Compressor
 - HV AC Condenser(s)
 - HV AC compressor(s)
 - Charge port wiring, controllers, mounting, etc.
- Disconnect manual service disconnects such as orange mega fuses or individual battery fuses.
- Charger repair and service shall be completed by the manufacturer, not LBS.

In-House Service Items

Mechanics employed by a school district to perform maintenance or their contractors may:

- Replace tires in compliance with OEM requirements.
- Service all components of the air disc brake system after the air compressor, up to and including all valves. (If a valve cannot be serviced without interference with a high voltage component, contact Leonard Bus Sales. (i.e., forward R12 valve))
- Replace and service all suspension components front and rear.
- Service chassis mounted mechanical steering components such as the power steering fluid reservoir, steering gear box, tie rod, drag link, pitman arm.
- Service any 12-volt components such as AM/FM radios, exterior and interior lighting, stop sign motors, cameras, wiper motors, under seat heaters, blower motors, etc.
- Grease/lube driveline components.
- Service the air filter canister for the air compressor as required in the service manual.
- Flush the 3 separate cooling systems as required in the service manual.
- Replace and maintain all hose clamps.
- Replace air filters (if applicable)
- Service Webasto heater (if equipped)

Mechanics employed by a school district to perform maintenance or their contractors may not, for any reason:

- Weld anywhere underneath the bus without consulting the original selling dealer.
- Mask, move, or otherwise alter cable routing.
- Splice into any high-voltage component or associated wiring.
- Piggyback off existing high-voltage hardware for the purposes of mounting non-OEM equipment.
- Apply any generalized rust preventative such as Carwell, Rustkote, Fluid Film, etc.
 - Spot treatment is acceptable on clamps, floor, and chassis components.