

Document Title: Description	Function Group: 000	Information Type: Service Information	Date: 01-Feb-21
Profile: L220E Volvo			

Description

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L220E Volvo			

L220E is a four-wheel drive loader with articulated frame steering.

The engine is a six-cylinder, four-stroke, direct-injection, turbocharged diesel engine with the type designation D12C.

The transmission, with the designation HTE305, is hydro-mechanical, where all gears are in constant mesh.

Between engine and transmission there is a single stage hydraulic torque converter.

Front and rear axles have fully floating drive shafts with planetary type gears in the hubs. The front axle is provided with a differential lock.

The parking and service brakes on the machine are wet type multi-disc brakes. The service brakes are built into each wheel hub and the parking brake is positioned on the output shaft inside the transmission.

The steering system is hydrostatic with a variable load-sensing axial piston pump and two hydraulic cylinders (steering cylinders).

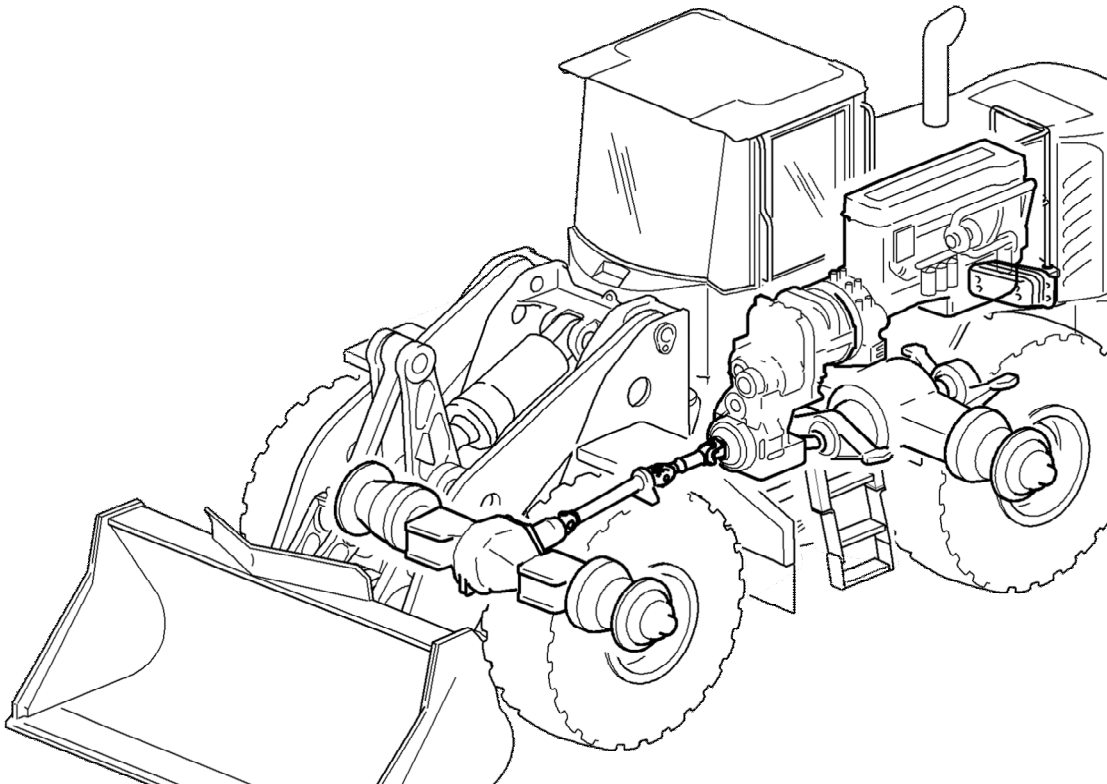


Figure 1

Document Title: Charging batteries	Function Group: 170	Information Type: Service Information	Date: 01-Feb-21
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Charging batteries

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Explosion hazard

Charging produces hydrogen in the battery, which mixes with oxygen to produce an explosive mixture. A short circuit, naked flame or spark near a battery can cause a powerful explosion. Always switch off the charging current before removing the charger clamps. Ensure appropriate ventilation, especially if the battery is charged in a confined area.

Corrosive sulphuric acid

The battery electrolyte contains corrosive sulphuric acid. Electrolyte spilled on bare skin must be removed immediately. Wash with soap and plenty of water. If electrolyte gets into your eyes or onto any other sensitive part of the body, rinse immediately with plenty of water and seek immediate medical attention.

Document Title: Cleanliness, brake and hydraulic systems	Function Group: 170	Information Type: Service Information	Date: 01-Feb-21
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Cleanliness, brake and hydraulic systems

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Maintain the best possible cleanliness when working on these systems. Wipe off all pipe and hose connections before disconnecting and remove paint flakes, etc. Plug all pipes, hoses, cylinders, etc. immediately after disconnecting. Never install a hydraulic hose which has not been plugged until it has been thoroughly cleaned.

Document Title: Electric welding	Function Group: 170	Information Type: Service Information	Date: 01-Feb-21
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Electric welding

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For electric welding on the machine or on attachments on machine:

- ☐ ground connection turned off with battery disconnect switch.
- ☐ fuse FH4 must be removed, located next to the battery disconnect switch.
- ☐ connectors for all control units (ECUs) must be unplugged.

NOTE!

Ground the welding unit as close as possible to the welding point.

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