

**VOLVO WHEEL LOADER**  
**L180E**



**VOLVO**

Document Title: <b>Description</b>	Function Group: <b>000</b>	Information Type: <b>Service Information</b>	Date: <b>7/17/2020</b>
Profile: <b>L180E Volvo</b>			

## Description

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L180E Volvo			

The L180E is a four-wheel drive wheel loader with articulated frame steering.

The L180E has a six-cylinder, direct-injected, four-stroke, turbocharged diesel engine of type D12C.

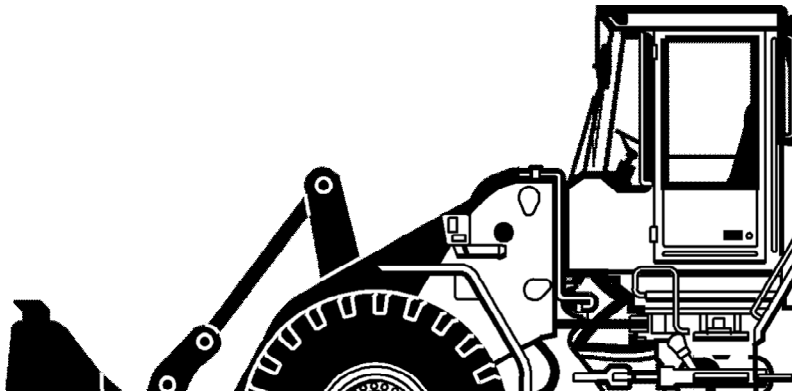
The hydraulic transmission, HTE220, is hydromechanical with all gear wheels in constant mesh.

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

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

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

The steering system is hydrostatic with a variable load-sensing axial piston pump and two hydraulic cylinders (steering cylinders). Hydraulic system, see Section 9.



**Figure 1**  
L180E wheel loader

Document Title: <b>Charging batteries</b>	Function Group: <b>170</b>	Information Type: <b>Service Information</b>	Date: <b>7/17/2020</b>
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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: <b>Cleanliness, brake and hydraulic systems</b>	Function Group: <b>170</b>	Information Type: <b>Service Information</b>	Date: <b>7/17/2020</b>
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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: <b>Electric welding</b>	Function Group: <b>170</b>	Information Type: <b>Service Information</b>	Date: <b>7/17/2020</b>
Profile: <b>L180E Volvo</b>			

## Electric welding

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L180E Volvo			

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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