

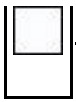
TORION 639

TORION 535

Repair Manual

Validity of manual

Wheel loader	Type	Vehicle identification number	
		From	To
TORION 639	K52	K52 00051	–
TORION 535	K50	K50 00051	–



Drain the coolant.



⌘

- ▶ Disconnect engine wiring loom connector (1).
- ▶ Disconnect temperature and pressure monitoring connector (2).
- ▶ Disconnect diagnosis connector (3).
- ▶ Disconnect left taillight connector (4).
- ▶ Disconnect right taillight connector (5).



⌘

- ▶ Disconnect engine wiring loom connector (1).
- ▶ Disconnect pre-heating system connector (2).
- ▶ Disconnect oil pressure switch connector (3).



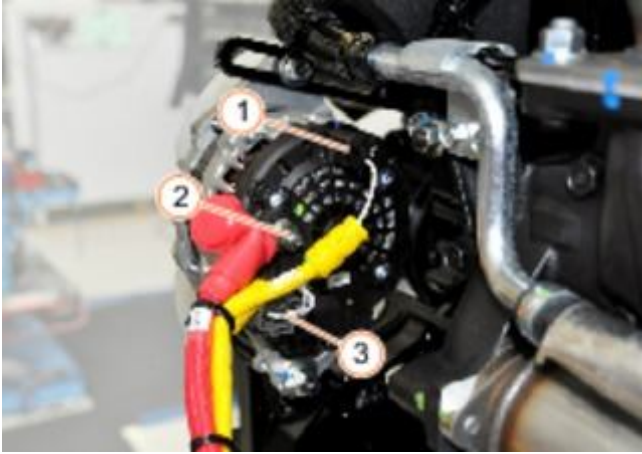
⌘

- ▶ Unscrew bolt (1).
- ▶ Unscrew earth cable (2).



D

- ▶ Unscrew nut of terminal 30 (1) and remove the cable from the electric starting motor.
- ▶ Unscrew bolt of terminal 50 (2) and remove the cable from the electric starting motor.



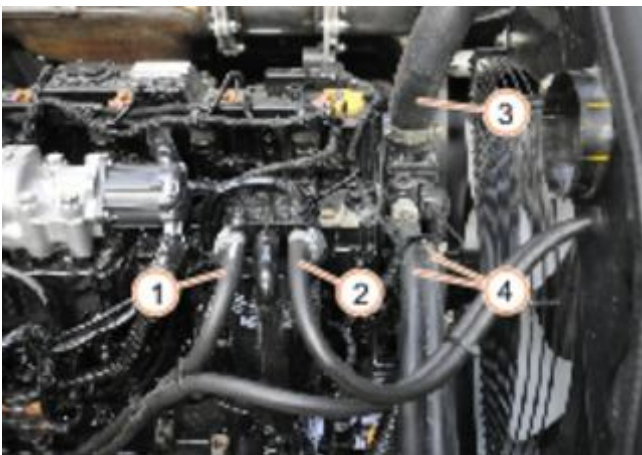
D

- ▶ Disconnect connector (1) of terminal W.
- ▶ Unscrew nut of terminal 30 (2) and remove the cable from the alternator.
- ▶ Disconnect connector D+ (3).



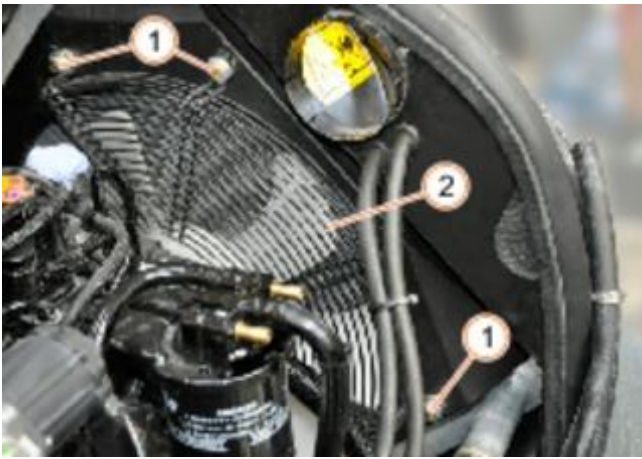
D

- ▶ Disconnect fuel pump connector (1).
- ▶ Disconnect taillight connector (2).
- ▶ Mark and remove fuel lines (3).
- ▶ Unscrew bolts (4) and remove fuel pre-filter (5).



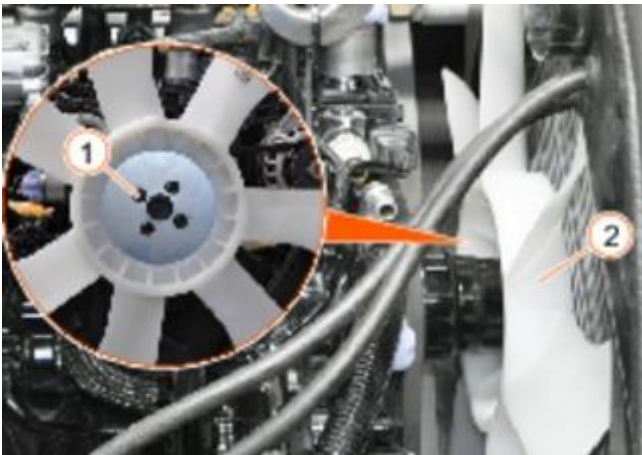
D

- ▶ Remove the fuel feed hose (1).
- ▶ Remove the fuel return hose (2).
- ▶ Remove coolant hoses (3).
- ▶ Remove heater hoses (4).



p

- ▶ Unscrew bolts (1) and remove grille (2).



p

- ▶ Unscrew bolts (1) and remove fan (2).



p

- ▶ Disconnect connector of solenoid coil Y2-LBH (1).
- ▶ Disconnect connector of solenoid coil Y3-LBH (1).
- ▶ Unscrew control pressure hydraulic line (3).
- ▶ Unscrew leakage oil hydraulic line (4).
- ▶ Unscrew high-pressure hydraulic line (5).



p

⚠ WARNING

Lifting heavy components.

Risk of death or serious injury.

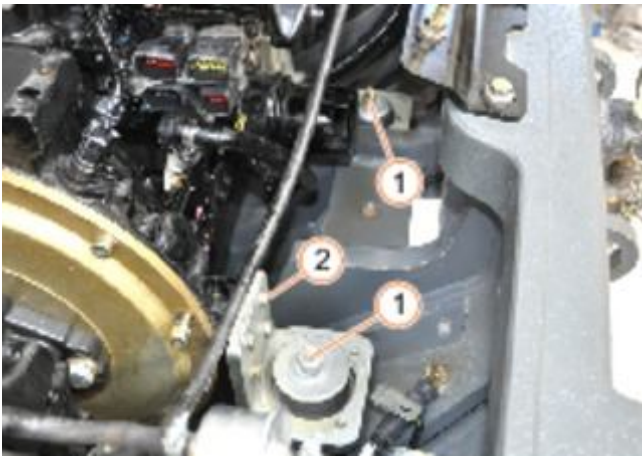
- ▶ Use a lifting tool with a sufficient bearing load.
- ▶ Use a lifting tool that operates reliably.
- ▶ Use the lifting tool on solid and even ground.
- ▶ Attach the lifting tool to the component at the intended or a suitable position.
- ▶ Only use faultless and sufficiently dimensioned lifting accessories.
- ▶ Protect lifting accessories against sharp corners and edges, for example using protectors.

- ▶ Suspend a suitable lifting device at the diesel engine eyelets (1).

Weight of diesel engine:

Diesel engine

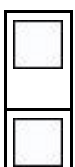
- ▶ Secure the diesel engine against dropping with the lifting device.
- ▶ Unscrew nuts (2) of engine supports.



- ▶ Unscrew nuts (1) of engine supports.
- ▶ Unscrew bolts (2) and remove the rear left engine support.



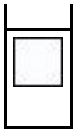
- ▶ Carefully lift diesel engine (1) out of the machine.
 - ▶ Ensure that no cables or hoses will impede lifting.
 - ▶ Ensure that no axial forces will act on the drive shaft.



- Remove the ground drive hydraulic pump.

- Remove the clutch.

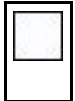
Ground drive
hydraulic pump



Remove the diesel particulate filter.

Diesel particulate filter

Installing

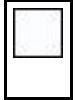


Install the diesel particulate filter.

Diesel particulate filter



Install the clutch.



Install the ground drive hydraulic pump.

Ground drive hydraulic pump



WARNING

Lifting heavy components.

Risk of death or serious injury.

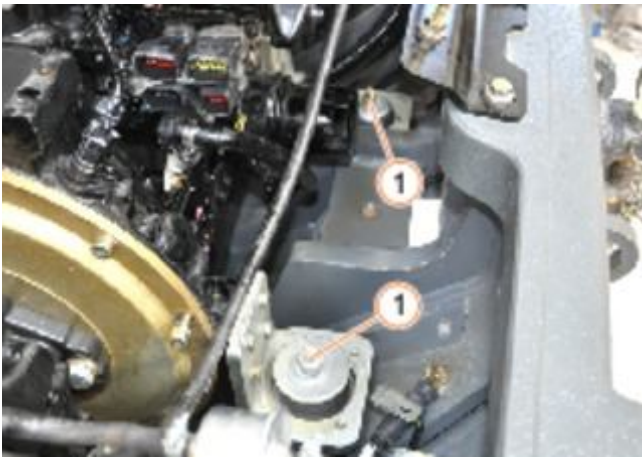
- ▶ Use a lifting tool with a sufficient bearing load.
- ▶ Use a lifting tool that operates reliably.
- ▶ Use the lifting tool on solid and even ground.
- ▶ Attach the lifting tool to the component at the intended or a suitable position.
- ▶ Only use faultless and sufficiently dimensioned lifting accessories.
- ▶ Protect lifting accessories against sharp corners and edges, for example using protectors.

-
- ▶ Suspend a suitable lifting device at the eyelets (2) of diesel engine (1).
Weight of diesel engine:
Diesel engine
 - ▶ Carefully insert diesel engine (1) into the machine.
 - ▶ Ensure that no cables or hoses will impede the inserting process.
 - ▶ Ensure that no axial forces will act on the drive shaft.



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- ▶ Bolt the rear left engine support (1) down to the diesel engine. Insert bolts with LOCTITE 241.



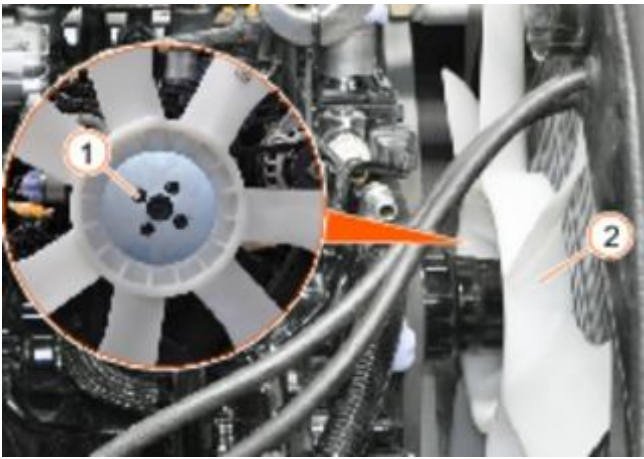
p

- ▶ Carefully put the diesel engine down on the engine supports.
- ▶ Bolt down nuts (1) of engine supports.
Tightening torque:
Diesel engine



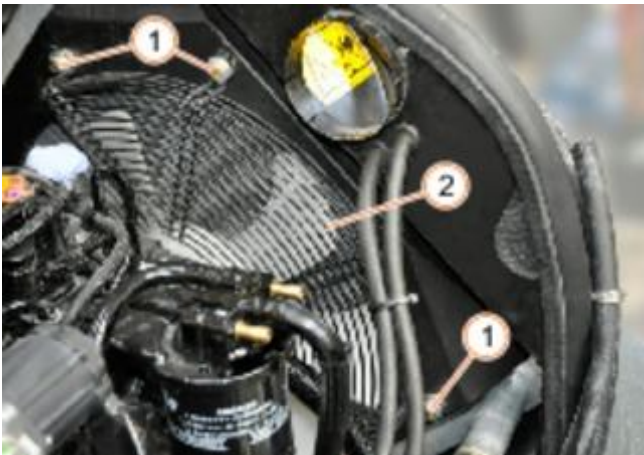
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- ▶ Bolt down nuts (2) of engine supports.
Tightening torque:
Diesel engine
- ▶ Unhinge the lifting device from eyelets (1).



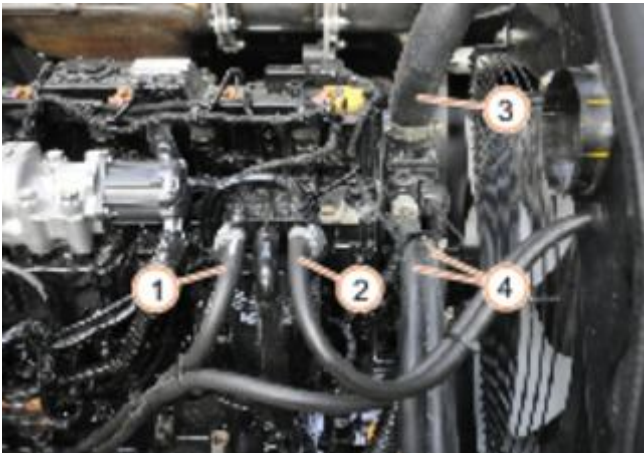
⌞

- ▶ Bolt down fan (2) with bolts (1).



⌞

- ▶ Bolt down grille (2) with bolts (1).



⌞

- ▶ Install fuel feed hose (1).
- ▶ Install fuel return hose (2).
- ▶ Install coolant hoses (3).
- ▶ Install heater hoses (4).



⌞

- ▶ Bolt down fuel pre-filter (5) with bolts (4).
- ▶ Connect fuel pump connector (1).
- ▶ Connect taillight connector (2).
- ▶ Install fuel lines (3), following the marks.



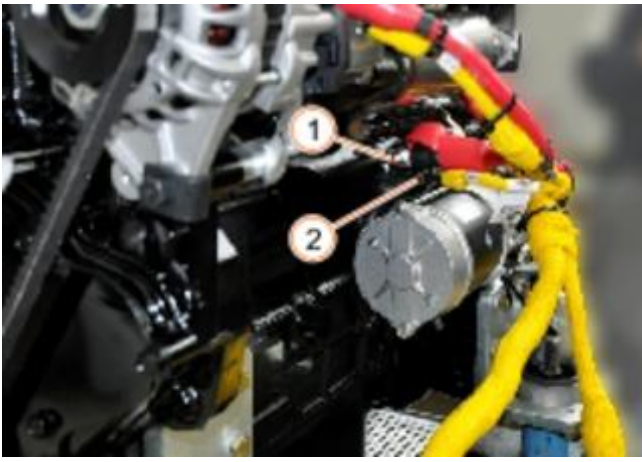
- ▶ Connect engine wiring loom connector (1).
- ▶ Connect temperature and pressure monitoring connector (2).
- ▶ Connect diagnosis connector (3).
- ▶ Connect left taillight connector (4).
- ▶ Connect right taillight connector (5).



- ▶ Connect engine wiring loom connector (1).
- ▶ Connect pre-heating system connector (2).
- ▶ Connect oil pressure switch connector (3).

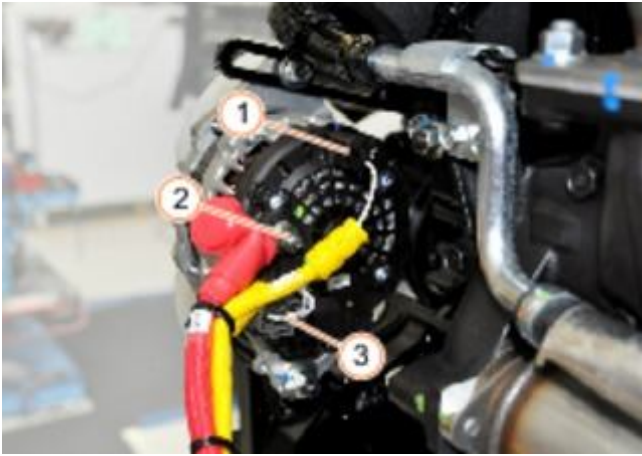


- ▶ Screw on earth cable (2).
- ▶ Screw in bolt (1).
Insert bolt with Loctite 241.



D

- ▶ Screw terminal 30 (1) down to the electric starting motor.
For tightening torque see the technical specifications of electric starting motor:
[Electric starting motor](#)
- ▶ Screw terminal 50 (2) down to the electric starting motor.



D

- ▶ Connect connector (1) of terminal W.
- ▶ Screw terminal 30 (2) down to the alternator.
For tightening torque see the technical specifications of alternator:
[Alternator](#)
- ▶ Connect connector D+ (3).



D

- ▶ Connect connector of solenoid coil Y2-LBH (1).
- ▶ Connect connector of solenoid coil Y3-LBH (1).
- ▶ Screw on control pressure hydraulic line (3).
- ▶ Screw on leakage oil hydraulic line (4).
- ▶ Screw on high-pressure hydraulic line (5).



- Install the windscreen washer liquid tank.

- Install the air filter housing.

[Windscreen washer liquid tank](#)

[Air filter housing](#)

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- Install the working hydraulics pump.
- Stop generating a vacuum in the hydraulic tank.
- Install the engine bonnet.
- Check the windscreen washer liquid tank level.
- Check the coolant level.
- Check the hydraulic oil level.
- Check the tightness of the working hydraulics pump.
- Check the tightness of the ground drive hydraulic pump.

Working hydraulics pump

Hydraulic oil tank

Engine bonnet

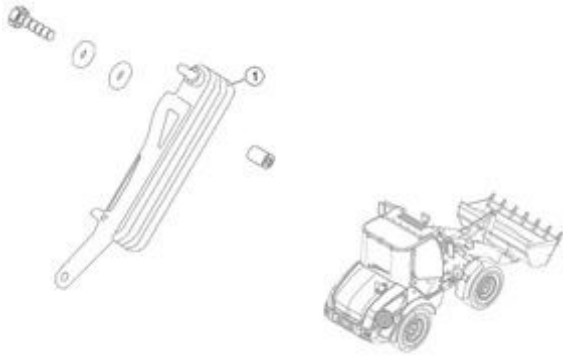
Operator's Manual

Operator's Manual

Operator's Manual

Fuel cooler

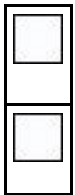
Technical specifications



Ⓜ

	Value	CCN	Comment/designation	
1			Fuel cooler	
2			Mounting bolt	
Tightening not specified, see Introduction / tightening torque chapter				

Removing



- Park the machine in maintenance position 1.

- Drain fuel.

Maintenance
position 1

Operator's Manual



Ⓜ

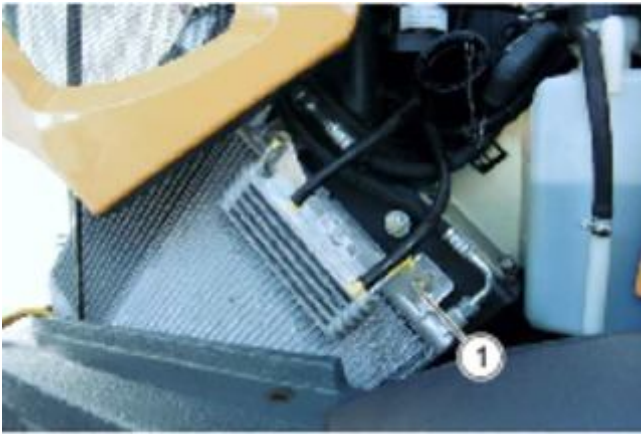
- ▶ Remove fuel lines (1).
- ▶ Plug the openings.



⤵

- ▶ Unscrew bolts (1).
- ▶ Remove the fuel cooler from the machine.

Installing



⤵

- ▶ Insert the fuel cooler into the machine.
- ▶ Screw on bolts (1).



⤵

- ▶ Screw on fuel lines (1).



- Refuel.

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