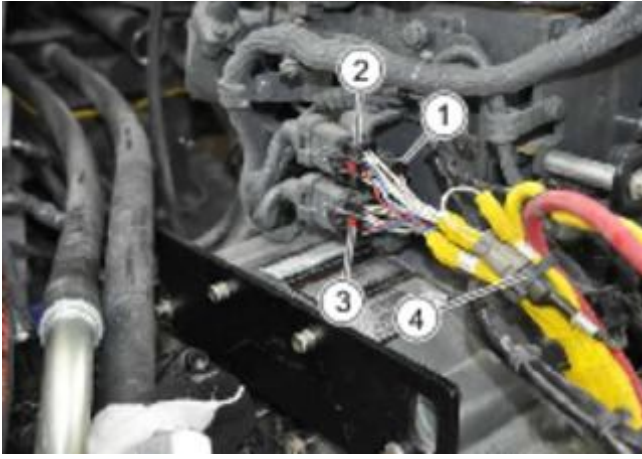


TORION 1511

TORION 1410

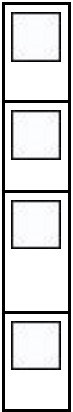
TORION 1177

Repair Manual



⤵

- ▶ Disconnect cable connector (1) (X5109.B-LBH).
- ▶ Disconnect cable connector (2) (X5204.B-LBH).
- ▶ Disconnect cable connector (3) (X5039.B-LBH).
- ▶ Disconnect wiring loom (4) from the diesel engine.



- Remove the electric starting motor.

- Remove the alternator.

- Remove the air conditioner compressor.

- Do **not** remove the air conditioner hoses from the compressor.

- Remove the ground drive hydraulic pump (2002-LBH).

Electric starting motor

Alternator

Air conditioner compressor

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.
-

- ▶ Bolt console (1) down to the diesel engine with bolts (2).
- ▶ Suspend slings (3) at the console.



⌵

WARNING

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 - ▶ 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 slings (1) on bracket (2).



⌵

- ▶ Unscrew nut (1).



⤵

- ▶ Unscrew nut (1).



⤵

⚠ WARNING

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- ▶ Only use faultless and sufficiently dimensioned lifting accessories.
- ▶ Protect lifting accessories against sharp corners and edges, for example using protectors.

-
- ▶ Unscrew nut (1).
 - ▶ Unscrew connector (3) of engine control unit at (2).
 - ▶ Carefully lift diesel engine (4) out of the machine.

Installation



⌘

- ▶ Check if tothing (1) of the clutch is damaged.
- ▶ Replace the clutch if required.



⌘

⚠ WARNING

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- ▶ 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.

-
- ▶ Carefully insert diesel engine (4) into the machine.
 - ▶ Screw on nuts (1).
 - ▶ Screw on connector (3) of engine control unit at (2).



p

- ▶ Tighten nut (1).



p

- ▶ Tighten nut (1).



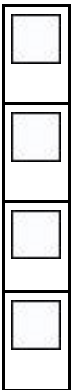
p

- ▶ Remove slings (1) from bracket (2).



⤵

- ▶ Remove slings (3) from the console.
- ▶ Unscrew bolts (2) and remove console (1).



- Install the ground drive hydraulic pump (2002-LBH).

- Install the air conditioner compressor.

- Install the alternator.

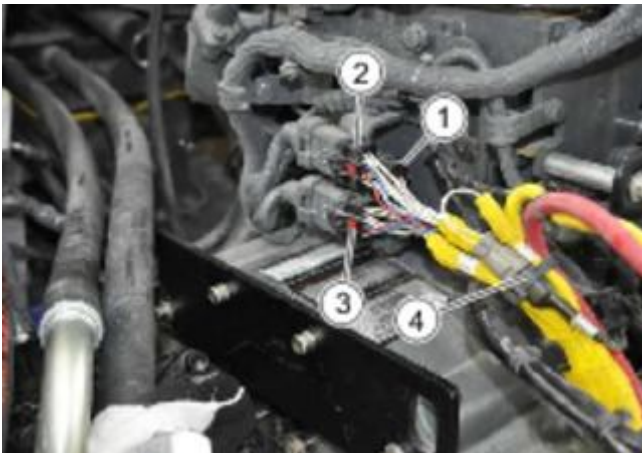
- Install the electric starting motor.

Ground drive
hydraulic pump

Air conditioner
compressor

Alternator

Electric starting
motor



⤵

- ▶ Connect cable connector (1) (X5109.B-LBH).
- ▶ Connect cable connector (2) (X5204.B-LBH).
- ▶ Connect cable connector (3) (X5039.B-LBH).
- ▶ Fasten wiring loom (4) on the diesel engine.



⤵

- ▶ Connect cable connector (1) to sensor (B5109-LBH).
- ▶ Connect cable connector (2) to sensor (B5502-LBH).
- ▶ Connect cable connector (3) to sensor (B5204-LBH).
- ▶ Fasten wiring loom (4) on the diesel engine.



⤵

- ▶ Install fuel line (2).
- ▶ Screw on clamp (1).



⤵

- ▶ Connect cable connector (1) to sensor (B5600-LBH).
- ▶ Connect cable connector (1) to valve (Y5004-LBH).
- ▶ Fasten wiring loom (3) on the diesel engine.



D

- ▶ Screw on engine oil lines (1) and (2).



D

- ▶ Screw on hydraulic lines (1) to (4).



D

- ▶ Install fuel return line (2).
- ▶ Screw on clamp (1).



D

- ▶ Install coolant hose (2).
- ▶ Screw on clamp (1).



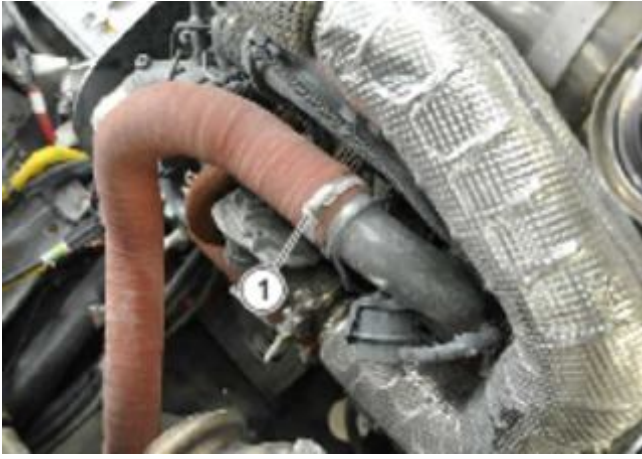
D

- ▶ Install coolant hose (1).



D

- ▶ Install charge air hose (2).
- ▶ Screw on clamp (1).
Tightening torque: 7.5 Nm



D

- ▶ Screw on clamp (1).
Tightening torque: 7.5 Nm



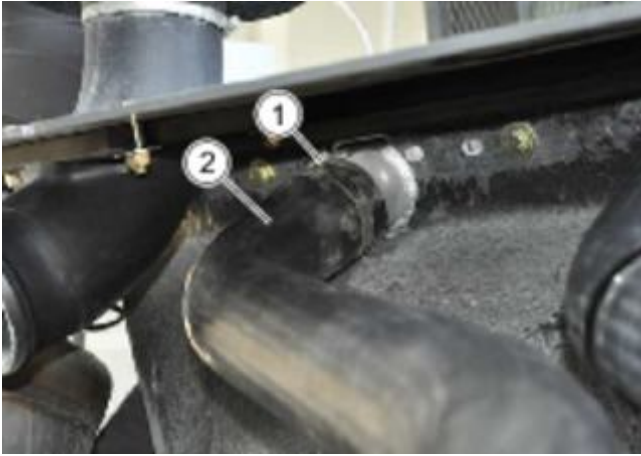
D

- ▶ Screw on coolant hoses (1).



D

- ▶ Install coolant hose (2).
- ▶ Screw on clamp (1).



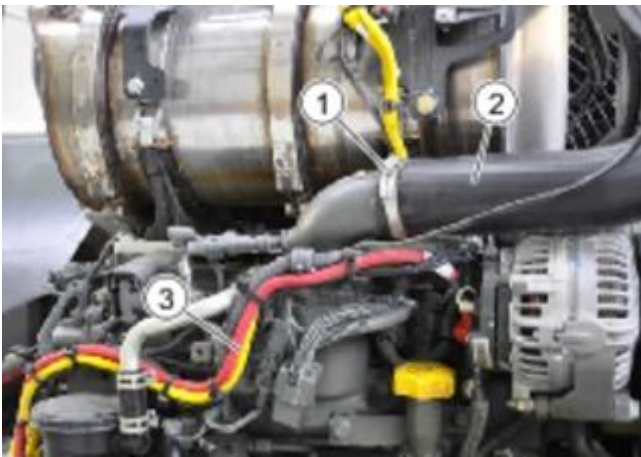
⤵

- ▶ Install charge air hose (2).
- ▶ Screw on clamp (1).
Tightening torque: 7.5 Nm



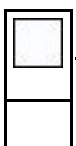
⤵

- ▶ Install coolant hose (2).
- ▶ Screw on clamp (1).



⤵

- ▶ Pull off charge air hose (2).
- ▶ Screw on clamp (1).
Tightening torque: 7.5 Nm
- ▶ Fasten wiring loom (3) on the diesel engine.



- Install the oil filter.

Oil filter

Fuel sediment filter

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

- Install the fuel pre-filter.

- Install the exhaust pipe.

- Install the air filter housing.

- Install the engine bonnet.

- Stop generating a vacuum in the hydraulic tank.

- Top up coolant.

Exhaust pipe

Air filter housing

Engine bonnet

Hydraulic oil tank

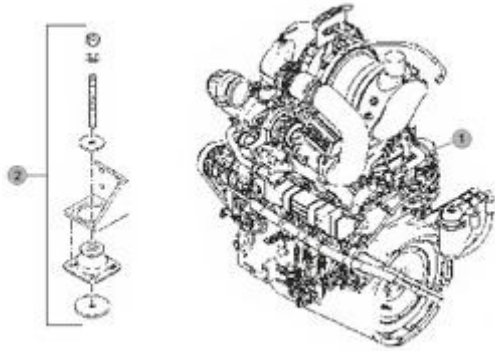
Changing the
coolant

Diesel engine

Applies to:

Diesel engine DPS - 4045HFL07

Technical specifications



Ⓟ

	Value	CCN	Comment/designation	
1	570 kg		Diesel engine (dry)	
2			Engine support	
Tightening not specified, see Introduction / tightening torque chapter				

Removal

- | | | | |
|---|---|--|---|
| □ | - | Park the machine in maintenance position 1. | <u>Maintenance position 1</u> |
| □ | - | Generate a vacuum in the hydraulic tank. | <u>Hydraulic oil tank</u> |
| □ | - | Remove engine bonnet. | <u>Engine bonnet</u> |
| □ | - | Remove the air filter housing. | <u>Air filter housing</u> |
| □ | - | Drain the coolant. | <u>Changing the coolant</u> |
| □ | - | Remove the exhaust pipe. | <u>Exhaust pipe</u> |
| □ | - | Remove the fuel pre-filter. | <u>Fuel sediment filter</u> |
| □ | - | Remove the oil filter. <ul style="list-style-type: none"> • Do not remove the oil lines from the filter. | <u>Oil filter</u> |

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