

Validity of manual

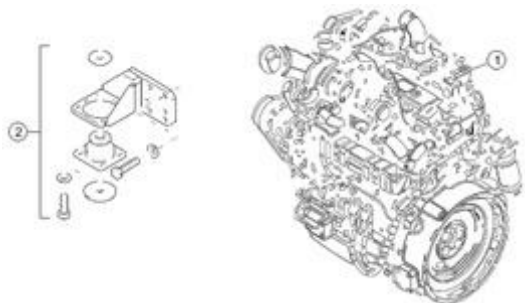
Wheel loader	Type	Vehicle identification number	
		From	To
TORION 956	K54	K54 00051	–

Diesel engine

Applies to:

Diesel engine DPS - 4045HFL07

Technical specifications



Ⓜ

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

Work preparation

Operating utilities:

- ▶ Lubricants:
Grease as specified in the Operator's Manual
- ▶ Sealing agents and glue:
Loctite 241

Removing

<input type="checkbox"/>	- Park the machine in maintenance position 1.	Maintenance position 1
<input type="checkbox"/>	- Generate a vacuum in the hydraulic tank.	Hydraulic oil tank
<input type="checkbox"/>	- Remove engine bonnet.	Engine bonnet
<input type="checkbox"/>	- Remove the air filter housing.	Air filter housing
<input type="checkbox"/>	- Drain the coolant.	Changing the coolant
<input type="checkbox"/>	- Remove the exhaust pipe.	Exhaust pipe
<input type="checkbox"/>	- Remove the fuel pre-filter.	Fuel sediment filter
<input type="checkbox"/>		

- Remove the fan pump.
- Remove the oil filter.
 - Do **not** remove the oil lines from the filter.

Gear pump

Exhaust pipe



⤵

- ▶ Slacken off clamp (1).
- ▶ Pull off charge air hose (2).



⤵

- ▶ Slacken off clamp (1).
- ▶ Pull off coolant hose (2).
 - ▶ Plug the openings.



⤵

- ▶ Slacken off clamp (1).
- ▶ Pull off charge air hose (2).



⤵

- ▶ Slacken off clamp (1).
- ▶ Pull off flexible tube (2).



⤵

- ▶ Unscrew 2x nuts (1).
- ▶ Unscrew coolant hoses (2).
 - ▶ Plug the openings.



⤵

- ▶ Slacken off clamp (1).
- ▶ Unscrew coolant hose (2).
 - ▶ Plug the openings.



⤷

- ▶ Slacken off clamp (1).
- ▶ Remove coolant line.
 - ▶ Plug the openings.
- ▶ Unscrew fastening ring (2).
- ▶ Remove coolant line.
 - ▶ Plug the openings.



⤷

- ▶ Unscrew 3 bolts (1).



⤷

- ▶ Unscrew 2 bolts (1).



▣

- ▶ Disconnect connector (1) (Y22-LBH.X).



▣

- ▶ Mark the running direction of the V-belt.
- ▶ Relieve the load of V-belt tensioner (1) and remove ribbed V-belt at the same time.



▣

- ▶ Unscrew 3 bolts (1).



▣

- ▶ Slacken off clamp (1).
- ▶ Pull off fuel return line (2).
 - ▶ Plug the openings.



▣

- ▶ Expose wiring loom (1).



▣

- ▶ Disconnect connector (1) (G1.X1-LBH).



⤵

- ▶ Disconnect connector (G1.X3-1-LBH).
- ▶ Disconnect connector (1) (B1+.LBH).



⤵

- ▶ Disconnect connector (X5109-LBH.X).
- ▶ Disconnect connector (X5502-LBH.X).
- ▶ Disconnect connector (X5504-LBH.X).



⤵

- ▶ Unscrew temperature sensor (1).



▢

- ▶ Disconnect pressure switch (B102-LBH.X).



- Remove the air conditioner compressor.
 - Do **not** remove the air conditioner hoses from the compressor.
- Remove the ground drive hydraulic pump.

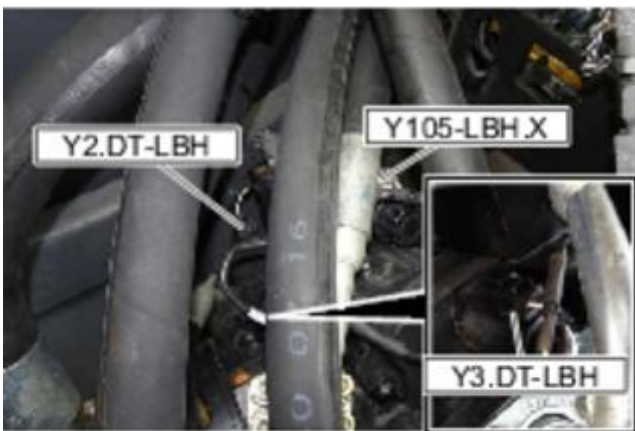
Air conditioner compressor

Ground drive hydraulic pump



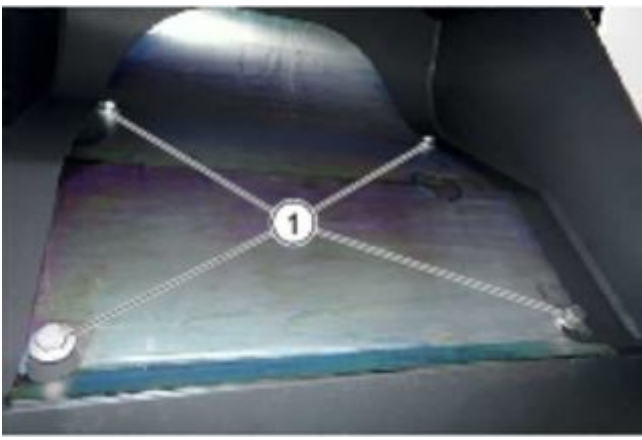
▢

- ▶ Disconnect connector (1) (X5039-LBH.B).
- ▶ Disconnect connector (2) (X5037-LBH:B).
- ▶ Disconnect connector (3) (X5038-LBH.B).



▢

- ▶ Disconnect connector (Y2.DT-LBH).
- ▶ Disconnect connector (Y105-LBH.X).
- ▶ Disconnect connector (Y3.DT-LBH).



⤵

- ▶ Unscrew 4 bolts.
- ▶ Remove the covering.



⤵

- ▶ Disconnect connector (X5109,B-LBH).



⤵

- ▶ Unscrew bolt (1).
- ▶ Remove the earth cable.



⌘

- ▶ Disconnect connector (X10,S-LBH).



⌘

- ▶ Unscrew nut (1).
 - ▶ Remove terminal 30.



⌘

⚠ 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.
-

- ▶ Secure the diesel engine with sling (1).



⤷

- ▶ Unscrew nut (1).



⤷

- ▶ Unscrew nut (1).



⤷

- ▶ Unscrew nut (1).



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-
- ▶ Unscrew nut (1).
 - ▶ Carefully lift the diesel engine out of the machine.

Installing



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