

Validity of manual

This manual applies to the following machine / front attachment:

Designation	Type	Serial number	
		from	to
XERION TRAC 5000 - 4000	782	78200011	–
XERION TRAC VC 5000 - 4000	782	78200011	–

Diesel engine

Applies to:

Caterpillar C-13

Perkins 2206D

Work preparation

Tool:

- ▶ Suitable lifting device
Load-bearing capacity **1400 kg min.**
- ▶ Suitable lifting gears (ropes and shackles) with appropriate load-bearing capacity.
- ▶ Oil collecting tank
- ▶ Coolant collecting tank
- ▶ Plugs (different sizes) for closing oil lines.

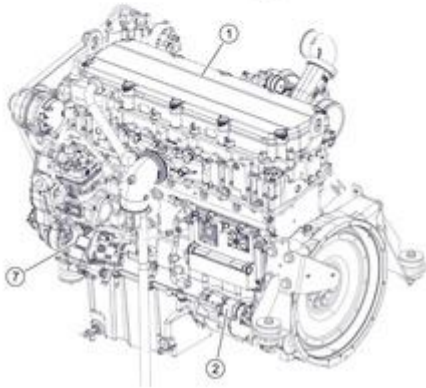
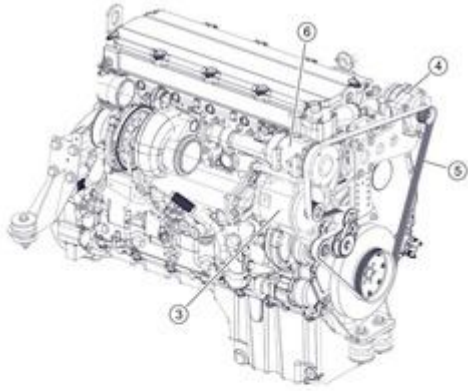
Special tool



Pinch off hose line (only flexible hoses up to 35 mm diameter max.)

	Special tool (I)	Pcs.
1	Hose clamp 00 0181 867 0	1

Technical specifications



Ⓟ

	Value	CCN	Remark / designation
1	1400 kg		Diesel engine
2		M021	Electric starting motor (M021) <u>Electric starting motor (M021)</u>
3		G002	Alternator (G002) <u>Alternator (G002 / G003)</u>
4		G003	Alternator (G003) <u>Alternator (G002 / G003)</u>
5			Belt (R1) <u>Belt (R1)</u>
6			Air conditioner compressor (SANDEN / TCCI compressor SD 7 H 15) <u>Air conditioner compressor</u>
7		2083	Fan drive pump (2083) <u>Fan drive pump (2083)</u>
Tightening torques not specified, see section on tightening torques			

NOTICE

Lubricants and fuels end up in the environment.

Environmental pollution

- ▶ Collect and store lubricants and fuels in suitable containers and dispose of them properly.
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Removing

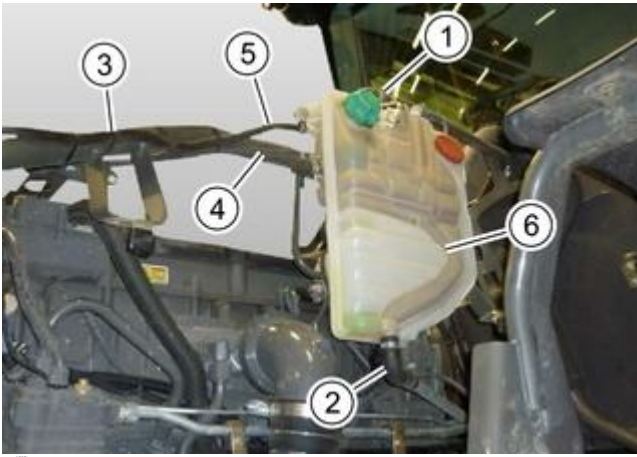
CAUTION

Contact with very hot liquids or machine parts.

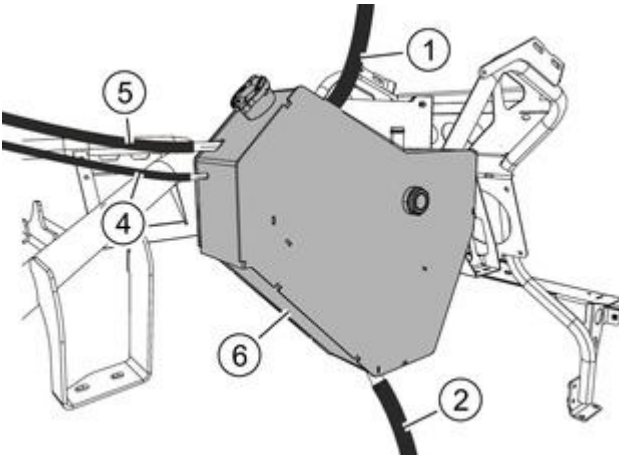
Risk of burns

- ▶ Wear suitable protective clothing.
 - ▶ Allow liquids or machine parts to cool.
 - ▶ Follow the instructions in the operator's manual.
-

- ▶ Let the diesel engine cool down.
- ▶ Disconnect the battery isolating switch. 
- ▶ Disconnect the battery. 
- ▶ Drain the coolant. 
- ▶ Drain the engine oil. 
- ▶ Remove the front wheels. 
- ▶ Remove alternators (G002) and (G003).
Alternator (G002 / G003)
- ▶ Remove electric starting motor (M021).
Electric starting motor (M021)
- ▶ Remove air filter.
Air filter
- ▶ Withdraw the air conditioner refrigerant.
Air conditioner - General
- ▶ Remove filter receiver drier.
Filter dryer
- ▶ Remove the engine bonnet.
Engine bonnet
- ▶ Note: As the air conditioner is drained, the air conditioner condenser can be disconnected at the hose connectors only and remain bolted to the engine bonnet.

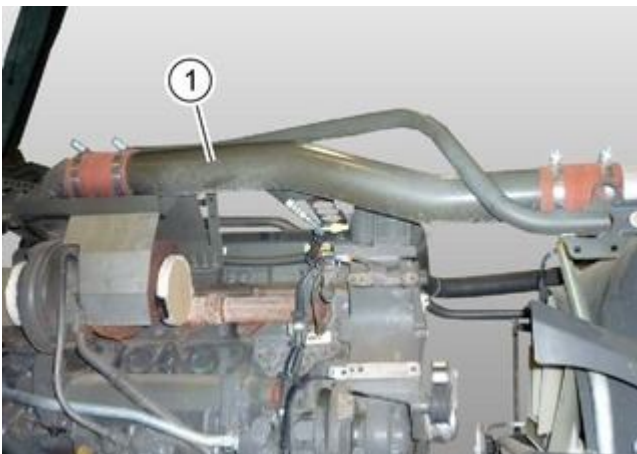


Version up to serial no. ...

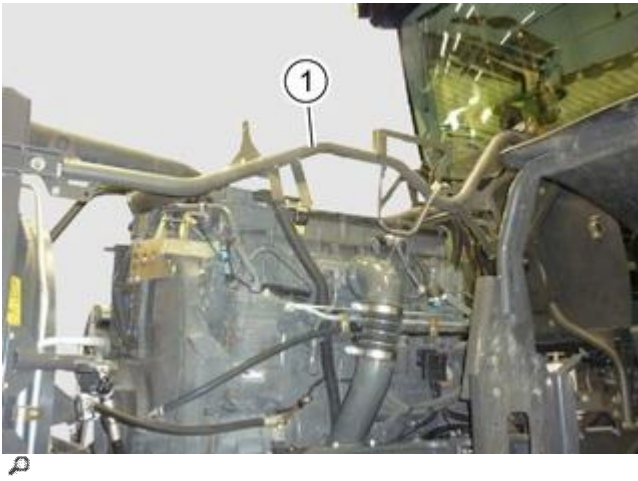


Version from serial no. ...

- ▶ Remove hoses (1) and (2).
- ▶ Remove cable bands (3).
- ▶ Remove hoses (4) and (5) at their respective end, do **not** remove them from the compensating tank.
- ▶ Unscrew the compensating tank (6).



- ▶ Remove pipe (1) and plug the openings tightly.



⚠ WARNING

Lifting of heavy parts.

Death or serious injury.

- ▶ Use lifting device of sufficient capacity.
- ▶ Use reliable lifting device.
- ▶ Use lifting device on solid and level ground.
- ▶ Attach lifting device to the intended or a suitable position of the component.

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- ▶ Remove the engine bonnet frame (1).
 - ▶ To do this, the following components may have to be slackened off or dismantled from the frame: Heater hose, air conditioner hose, fuel line, cables, bonnet socket, fuel filter and the sheet metal behind the engine.
 - ▶ Weight of frame:
approx. 60 kg



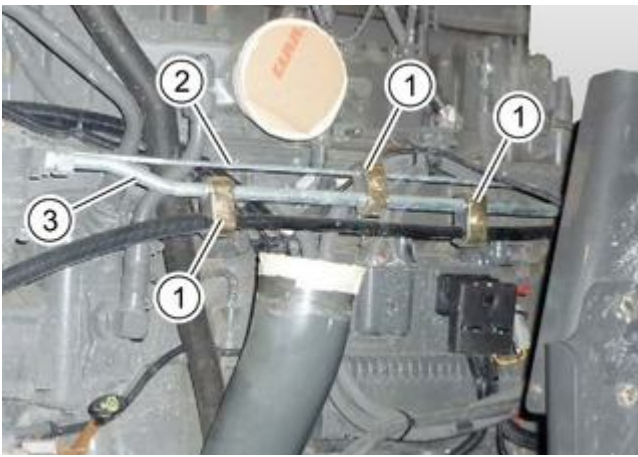
- ▶ Remove pipe (1) and plug the openings tightly.



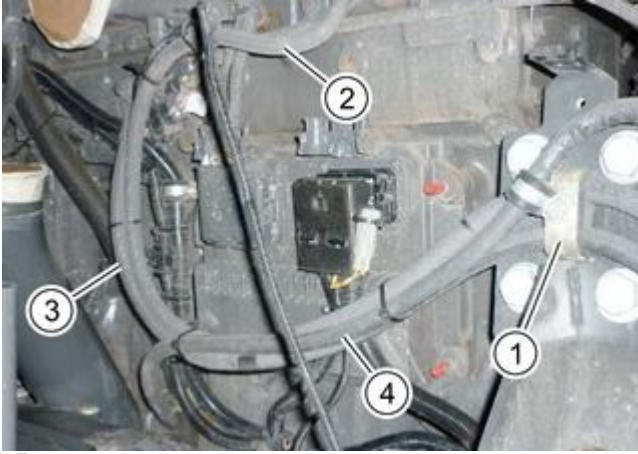
- ▶ Remove pipe (1) and plug the openings tightly.



- ▶ Unscrew hose at (1).



- ▶ Unscrew clamps (1).
- ▶ Remove pipes (2) and (3) and close openings tightly.



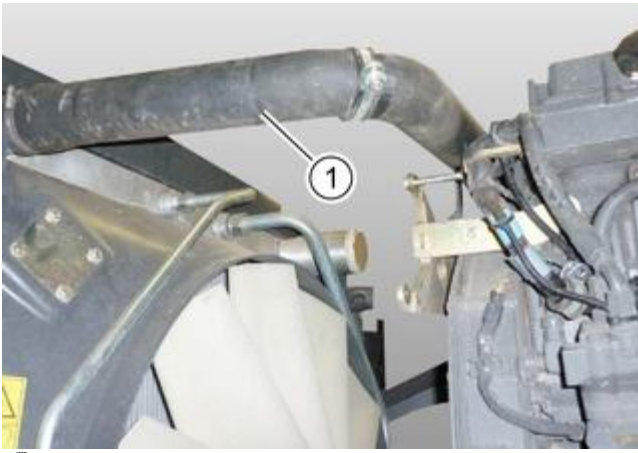
- ▶ Unscrew clamp (1).
- ▶ Remove hoses (2) to (4) and plug the openings tightly.



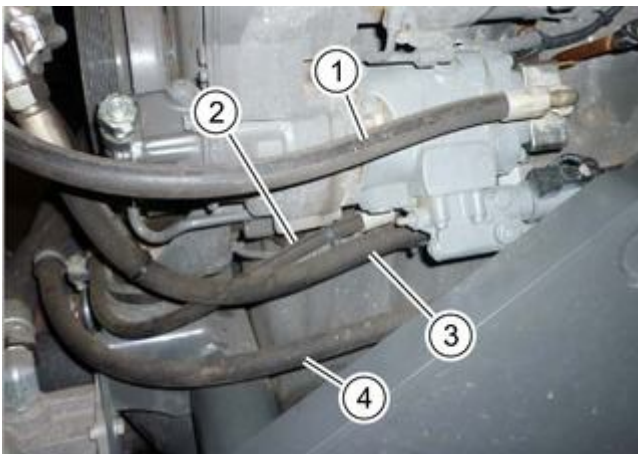
- ▶ Unlock and disconnect connector (1).



- ▶ Remove cable (1) from all cable bands.
- ▶ Remove fuel filter (2).
 - ▶ Important! Do **not** unscrew hoses from fuel filter.



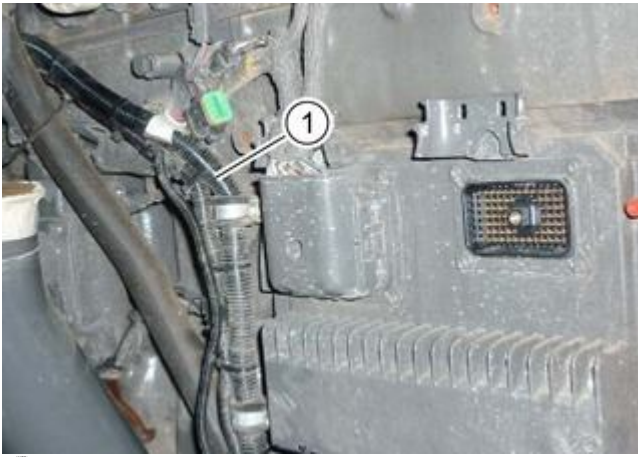
- ▶ Remove hose (1) and plug the openings tightly.



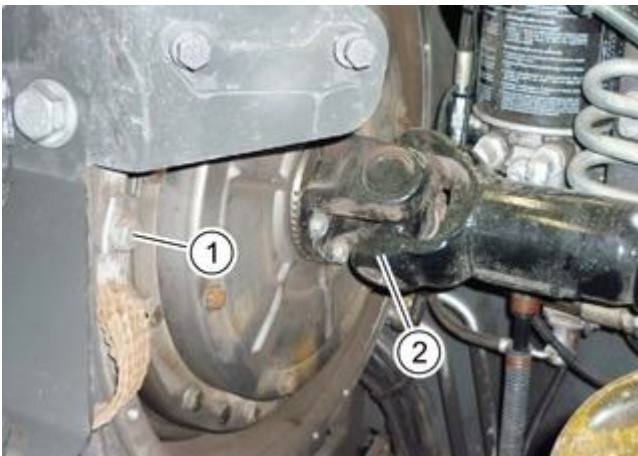
- ▶ Remove hoses (1 - 4).



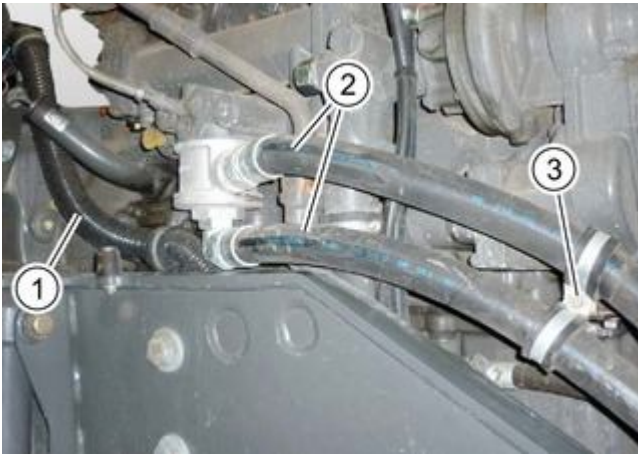
- ▶ Unlock and disconnect connector (1).



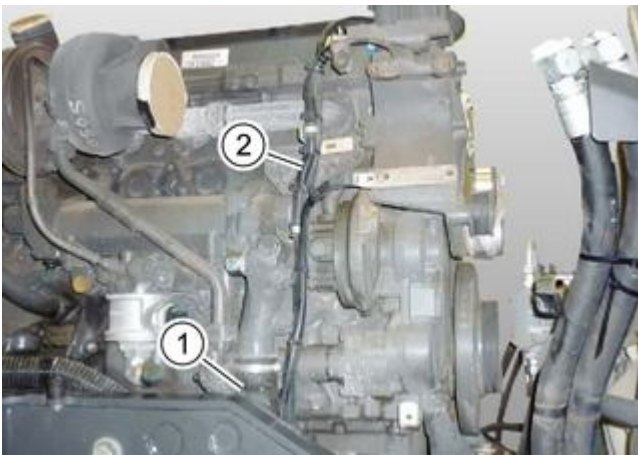
- ▶ Remove wiring loom (1) from the engine.



- ▶ Unscrew earth strip at (1).
- ▶ Remove the main drive universal drive shaft (2).
Universal drive shaft main drive



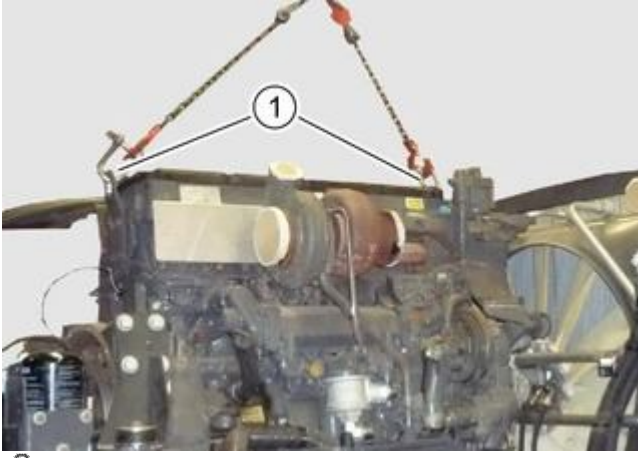
- ▶ Remove hoses (1) and (2).
- ▶ Unscrew clamp (3).



- ▶ Remove hose (1) and plug the openings tightly.
- ▶ Remove cable (2) from the engine.



- ▶ Remove mud guard (1).



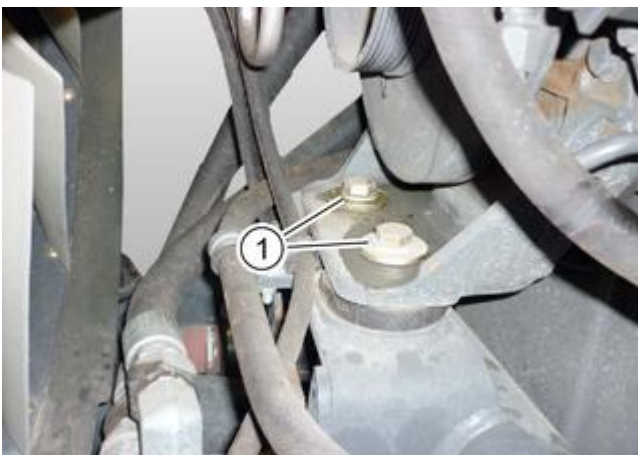
⚠ WARNING

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.

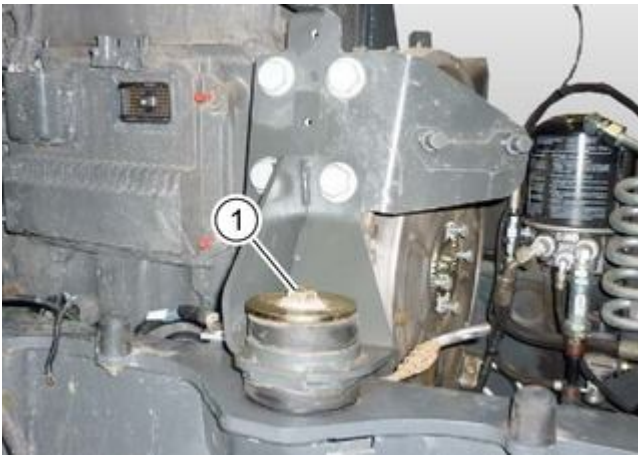
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- ▶ Suspend diesel engine in a suitable lifting device at the suspension points (1) intended for this purpose.
Weight of diesel engine:
around 1400 kg



- ▶ Unscrew bolts (1).



- ▶ Unscrew bolt (1).



- ▶ Unscrew bolt (1).



- ▶ Lift the diesel engine out of the machine.
Important! When lifting the diesel engine, avoid damaging any hoses and cables.
Collect and dispose of any leaking coolant.

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