



TUCANO 480 - 320

Repair Manual

Genuine repair manual

Validity of manual

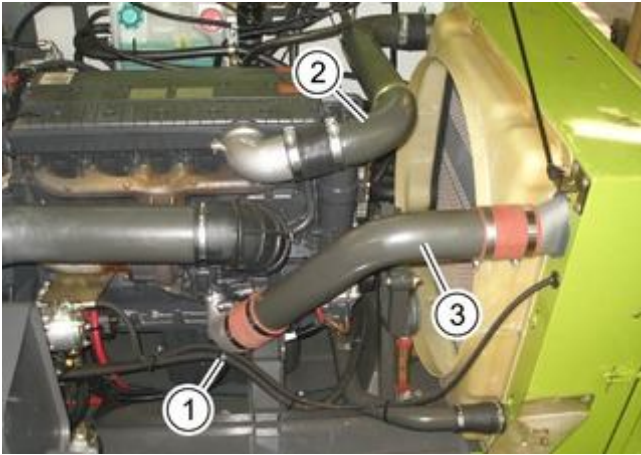
This manual applies to the following machine / front attachment:

Designation	Type	Serial number	
		from	to
TUCANO 480	840	840 06016	–
TUCANO 470	840	840 06016	–
	C36	C36 00011	–
TUCANO 450	839	839 00011	–
	C32	C32 00011	–
TUCANO 440	839	839 00011	–
	C32	C32 00011	–
TUCANO 430	838	838 00011	–
	C22	C22 00011	–
TUCANO 340	834	834 00011	–
TUCANO 330	832	832 00011	–
TUCANO 320	832	832 00011	–
	C18	C18 00011	–

- ▶ Removing the torsion damper
Torsion damper
- ▶ Removing the fan blades
Diesel engine cooling system



- ▶ Remove cover (1).



Version without exhaust gas treatment

Version without exhaust gas treatment:

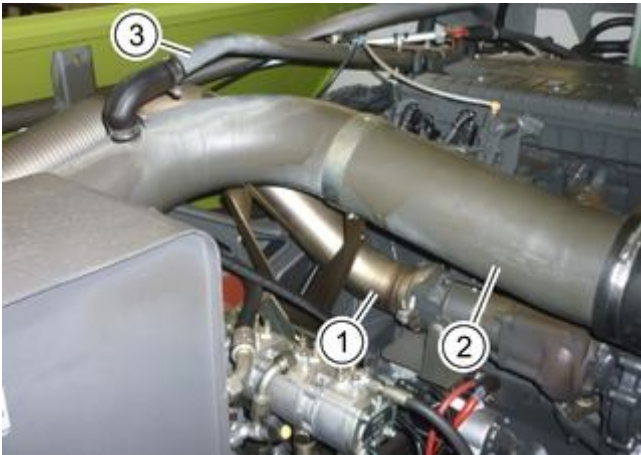
- ▶ Slacken off clamp (1).
- ▶ Remove pipes (2) and (3) completely with unions.
- ▶ Close the openings tightly on both sides.



Version with exhaust gas treatment

Version with exhaust gas treatment:

- ▶ Remove pipes (1) and (2) completely with unions.
- ▶ Close the openings tightly on both sides.

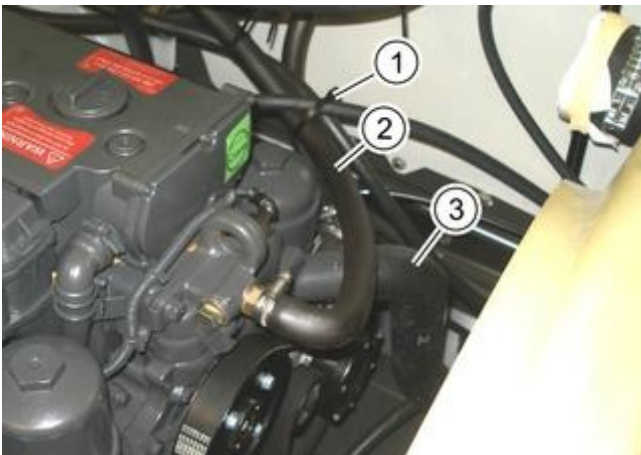


Version with exhaust gas treatment

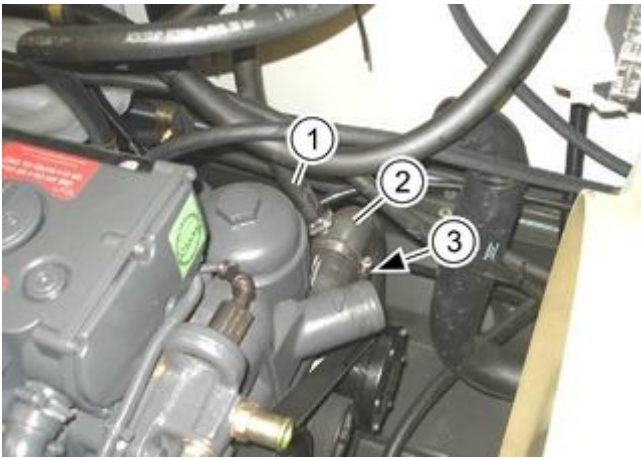
- ▶ Remove the exhaust manifold (1).

Version with exhaust gas treatment:

- ▶ Remove pipes (2) and (3) completely with unions.
- ▶ Close the openings tightly on both sides.

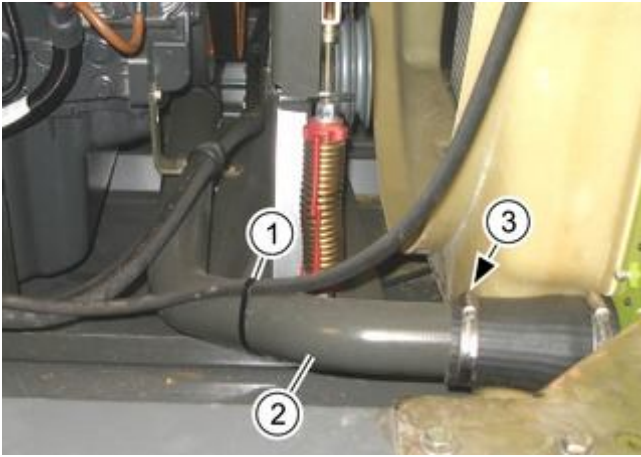


- ▶ Loosen cable band (1).
- ▶ Mark the installation position of hoses (2) and (3).
- ▶ Remove hoses (2) and (3).
Collect any escaping coolant and dispose of it properly.
- ▶ Plug the openings tightly.



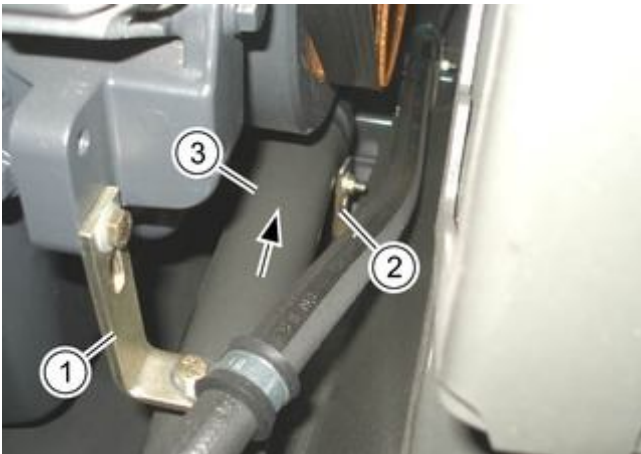
⤵

- ▶ Loosen cable band (1).
- ▶ Mark the installation position of hose (1).
- ▶ Unscrew pipe (2) at (3).
- ▶ Remove hose (1).
Collect any escaping coolant and dispose of it properly.
- ▶ Plug the openings tightly.



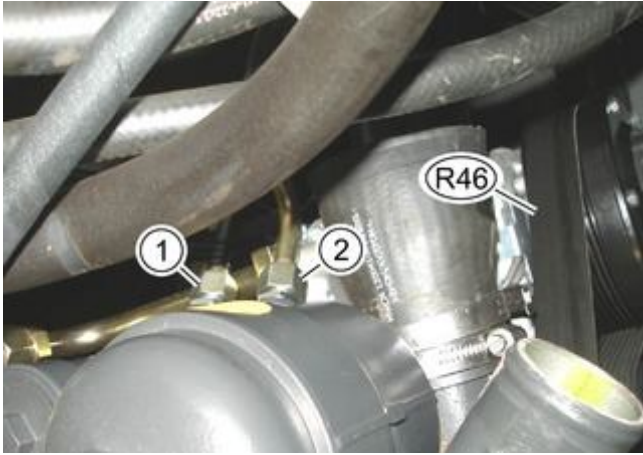
⤵

- ▶ Loosen cable band (1).
- ▶ Unscrew pipe (2) at (3).
- ▶ Collect any escaping coolant and dispose of it properly.
- ▶ Plug the openings tightly.




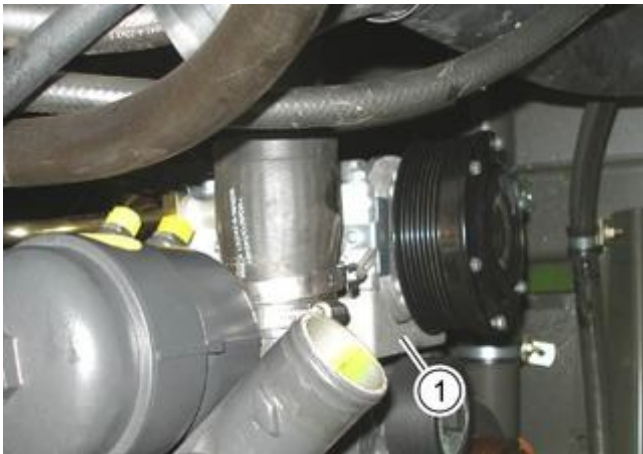
⤵

- ▶ Remove angle plates (1) and (2).
- ▶ Slide pipe (3) to the outside in the direction of the arrow as far as possible.



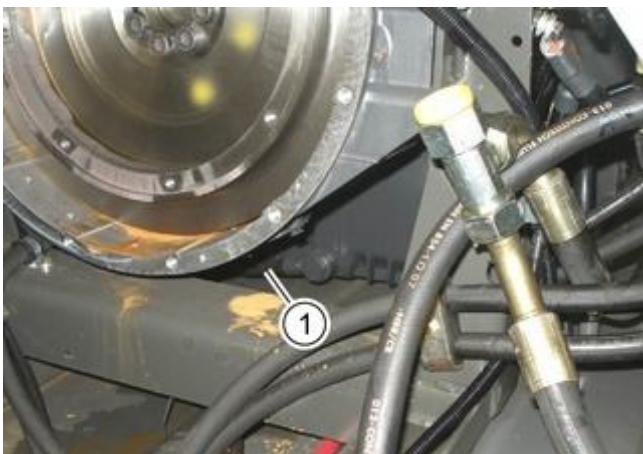
⌘

- ▶ Mark and unscrew pipes (1) and (2).
- ▶ Collect any escaping fuel and dispose of it properly.
- ▶ Seal openings tightly with plugs.
- ▶ Remove belt (R46). 



⌘

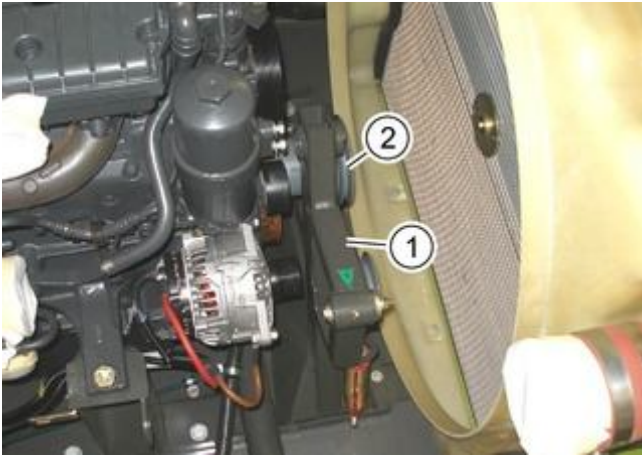
- ▶ Unscrew and tie up compressor (1).
Caution! The hoses must **not** be kinked and **not** be slackened off!



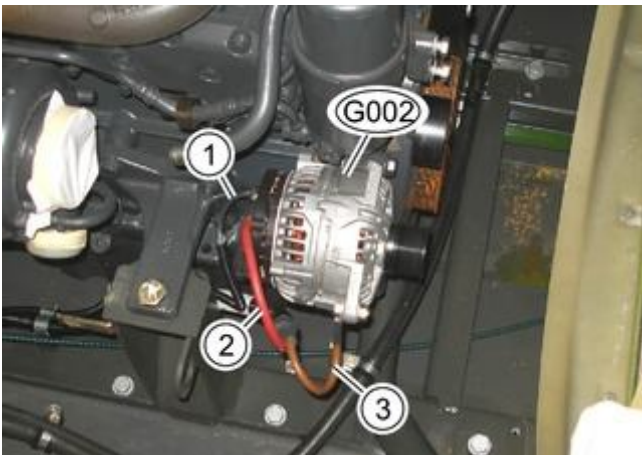
⌘

- ▶ Mark and unscrew hose (1).

- ▶ Collect and properly dispose of any escaping engine oil.
- ▶ Seal openings tightly with plugs.



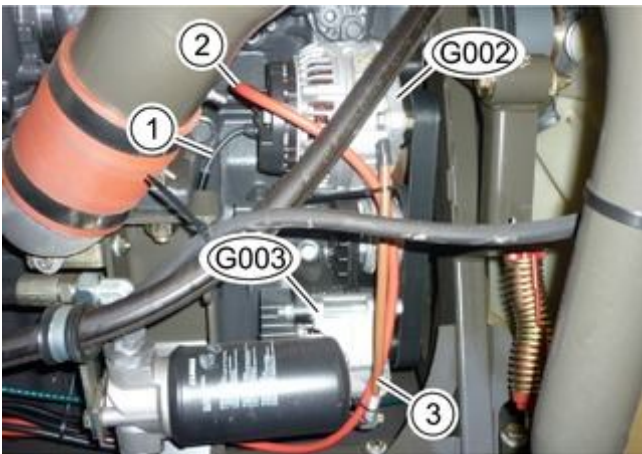
- ▶ Remove bracket (1).
- ▶ Remove pulley (2).



Version without exhaust gas treatment

Version without exhaust gas treatment:

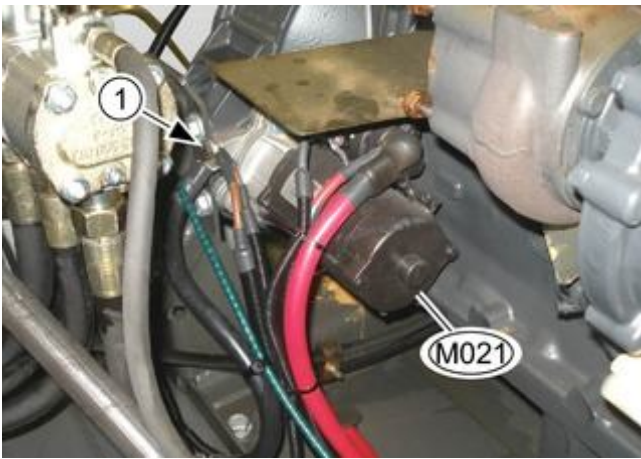
- ▶ Mark and disconnect cable connections (1 - 3) on the alternator (G002).



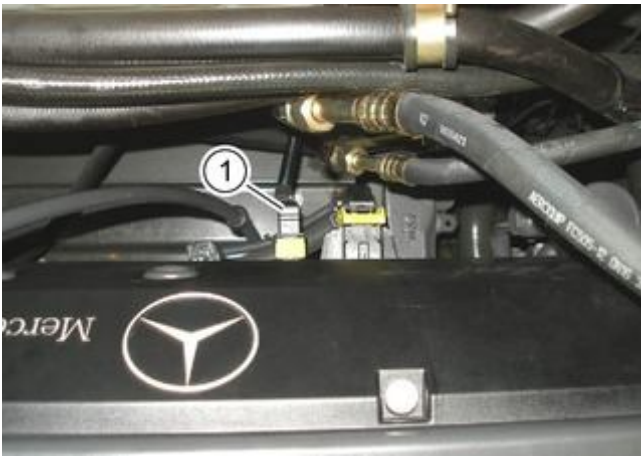
Version with exhaust gas treatment

Version with exhaust gas treatment:

- ▶ Mark and unscrew cable connections (1 - 3) on alternators (G002) and (G003).



- ▶ Mark and unscrew cable connections on the electric starting motor (M021).
- ▶ Unscrew earth cable at (1).



- ▶ Unlock and disconnect cable connector (1).



Version with exhaust gas treatment

⚠ WARNING

Contact with urea solution.

Risk of injury.

- ▶ Wash skin thoroughly with soap and water. Consult a doctor if required.
- ▶ Rinse eyes immediately under running water. Consult a doctor if required.

- ▶ Rinse out your mouth and drink plenty of water. Consult a doctor if required.


CAUTION

Surfaces come into contact with urea solution.

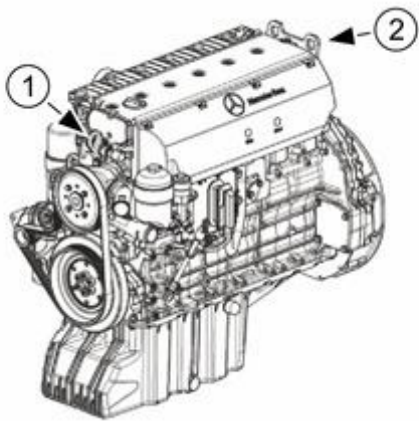
Corrosion of components.

- ▶ Flush off the affected surfaces immediately with water.

Version with exhaust gas treatment:

Observe the safety precautions for storage of urea solution and its properties at high and low outside temperatures! 

- ▶ Remove compressed-air hose (1).
- ▶ Pinch off hoses (2) and (3) with special tool (I) (hose clamps).
Mercedes-Benz OM 926 LA.E3A/1 diesel engine
- ▶ Slacken off and disconnect hose lines (2) and (3) at the clamps. Collect any escaping coolant and dispose of it properly.
- ▶ Plug the openings tightly.
- ▶ Pinch off urea hose (4) with special tool (I) (hose clamp).
Mercedes-Benz OM 926 LA.E3A/1 diesel engine
- ▶ Mark urea hose (4), unlock at the connection and pull off of valve (Y487).
- ▶ Plug opening tightly with plugs.
- ▶ Collect any escaping urea solution and dispose of properly.









DANGER

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 diesel engine in a suitable lifting device at the suspension points (1) and (2) intended for this purpose.

Weight of diesel engine

Mercedes-Benz OM 926 LA.E3A/1 and OM 906 LA.E3A/1:

around 566 kg

- ▶ Slightly lift the diesel engine.
- ▶ Unscrew brackets (3) and (4) on both sides of the diesel engine.



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

Installation

Observe the specifications in the overview!

[Mercedes-Benz OM 926 LA.E3A/1 diesel engine](#)

CAUTION

Foreign substances pollute the system

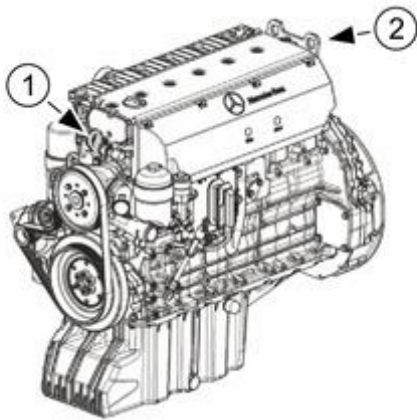
Damage to exhaust gas system.

- ▶ Keep foreign substances and residual quantities of diesel fuel out of this system.

- ▶ Increased cleanliness requirements during installation work.



- ▶ Preparing a parts change and release information when installing a **new** diesel engine:
 - ▶ Take down the engine number of the **new** diesel engine.
 - ▶ Open CLAAS Extra.Net / Service Online (1).
 - ▶ Write the parts change and release information for the machine.
- ▶ Before installing the diesel engine, check all hoses and cables as well as the engine suspensions and cable connectors for damage and replace them if necessary.
- ▶ Seal all engine openings tightly in order to prevent ingress of dirt.



Ⓟ





⚠

DANGER

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 diesel engine in a suitable lifting device at the suspension points (1) and (2) intended for this purpose.

Weight of diesel engine

Mercedes-Benz OM 926 LA.E3A/1 and OM 906 LA.E3A/1:

around 566 kg

- ▶ Lift the diesel engine into the machine.
Caution! When inserting the diesel engine, avoid damaging any hoses and cables.
- ▶ Bolt down brackets (3) and (4) on both sides of the diesel engine.



⚠

Version with exhaust gas treatment

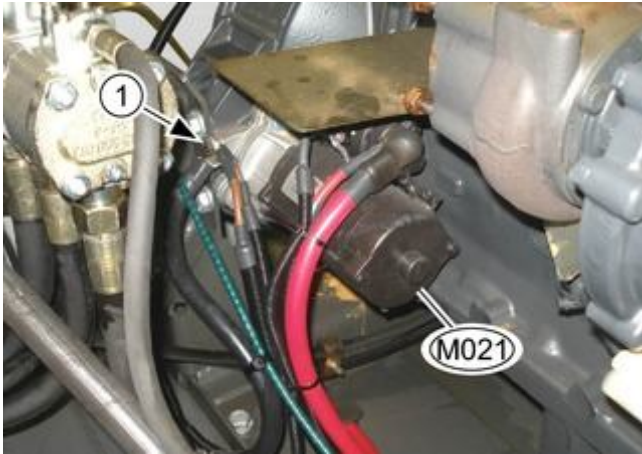
Version with exhaust gas treatment:

- ▶ Fit compressed-air hose (1).
- ▶ Install hoses (2) and (3) and fasten with clamps.
- ▶ Connect and lock urea hose (4) to the connections of valve (Y487).
- ▶ Remove special tool (I) (hose clamps).



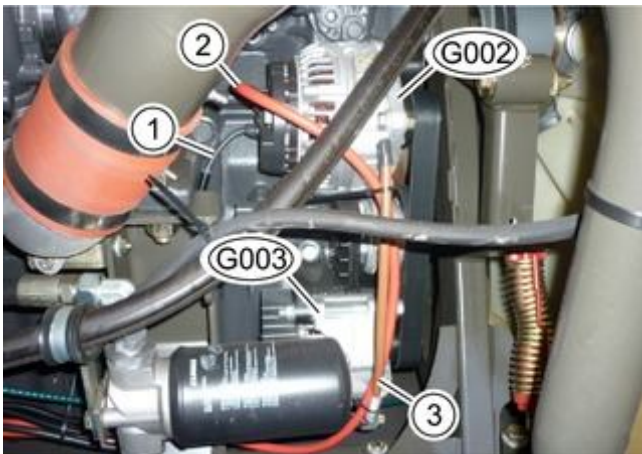
▶

- ▶ Connect and lock cable connector (1).



▶

- ▶ Screw cable connections to the electric starting motor (M021) according to the marks.
- ▶ Screw on earth cable at (1).

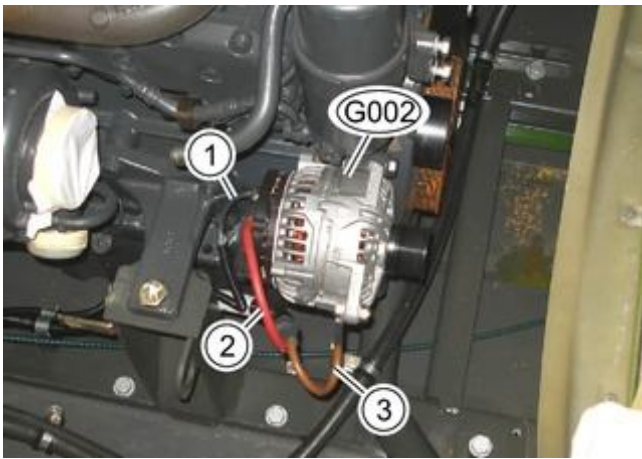


▶

Version with exhaust gas treatment

Version with exhaust gas treatment:

- ▶ Screw cable connections (1 - 3) on alternators (G002) and (G003) according to the marks.



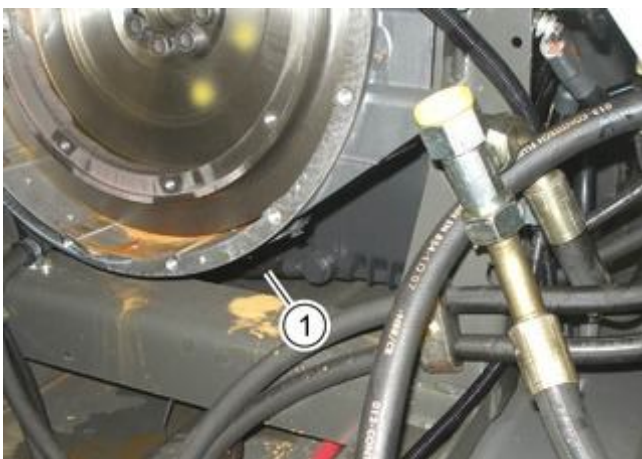
Version without exhaust gas treatment

Version without exhaust gas treatment:

- ▶ Screw cable connections (1 - 3) on the alternator (G002) according to the marks.



- ▶ Fit bracket (1) and pulley (2).



- ▶ Screw on hose (1) according to the marks.

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