

AXION 870-850-830-810

CMATIC

Repair manual

Original repair manual

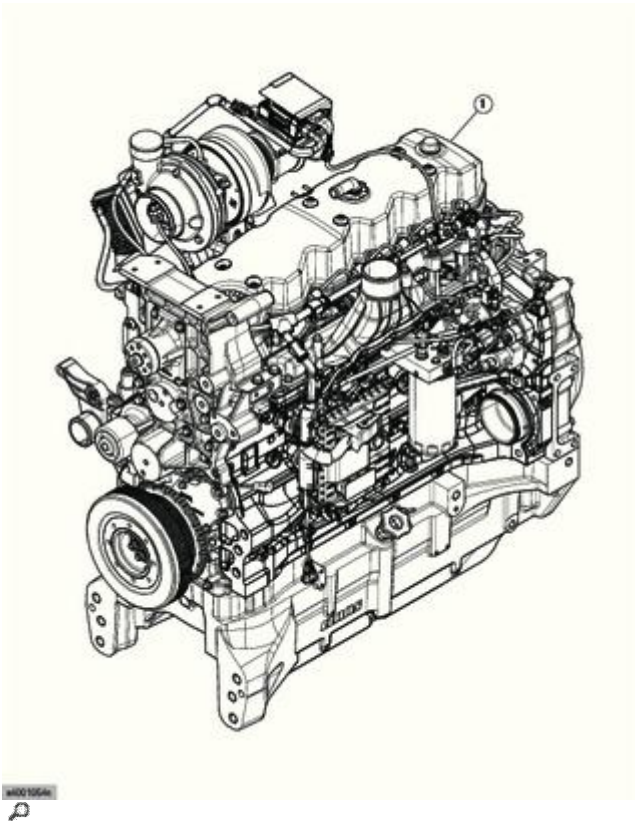
Validity of this repair manual

This repair manual applies to the following tractor:

Description	Type	Tractor serial number	
		From	to
AXION 800	A61	A6100100	—

Complete engine

Technical specifications



Number	Value	Note – Description
1	920 kg	Complete engine

For unspecified tightening torques, refer to the section entitled: "Tightening torques".

WARNING

Lifting heavy components.

Risk of death or serious injury.

- ▶ Use certified slings or chains in perfect working order.
- ▶ Use a certified hoist in perfect working order.
- ▶ Use a certified jack or stand which can support the load.
- ▶ Use the jack or stand on a flat, horizontal, sufficiently firm surface.
- ▶ Place the jack or stand in a suitable location.

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.

Special tool



00 1148 105 0

p

Special tool – Reference no.

Carriage to be uncoupled

No. 00 1148 105 0



00 1148 106 0

p

Special tool – Reference no.

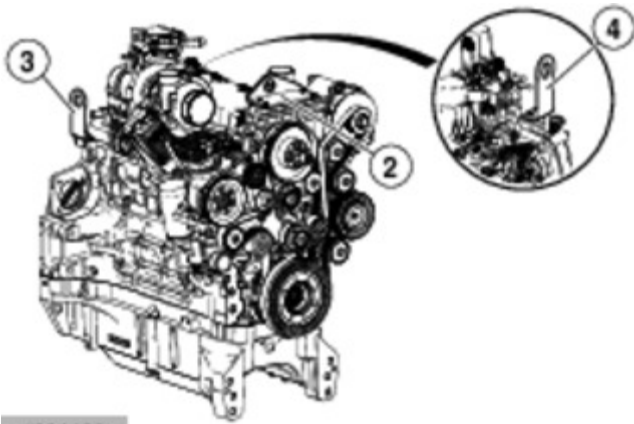
Extension

No. 00 1148 106 0



00 1152 8700

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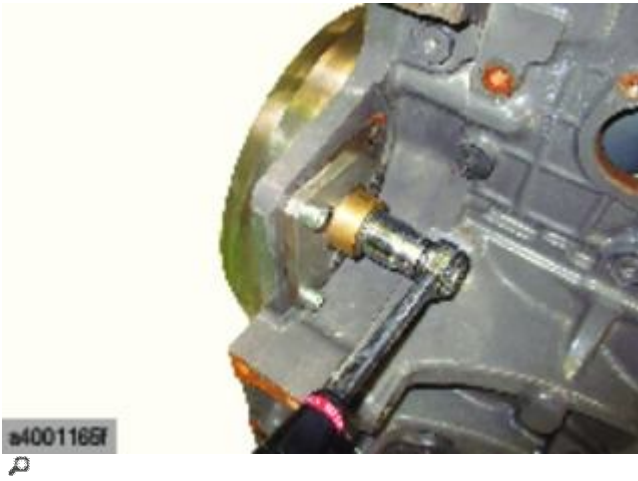
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Special tool – Reference no.	
1	Engine lifting brackets kit No. 00 1152 870 0
Component parts of the NEF 6 kit	
2	Bracket at the front of the engine No. 1149 878 1/1
3	Bracket at the right-hand side of the engine No. 1149 878 1/2D
4	Bracket at the left-hand side of the engine No. 1149 878 1/2G




00 1150 142 0

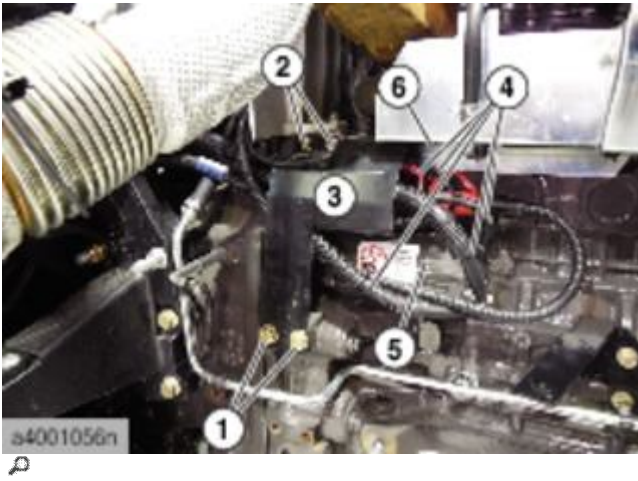
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Special tool – Reference no.
Flywheel rotating tool No. 00 1150 142 0

Removal

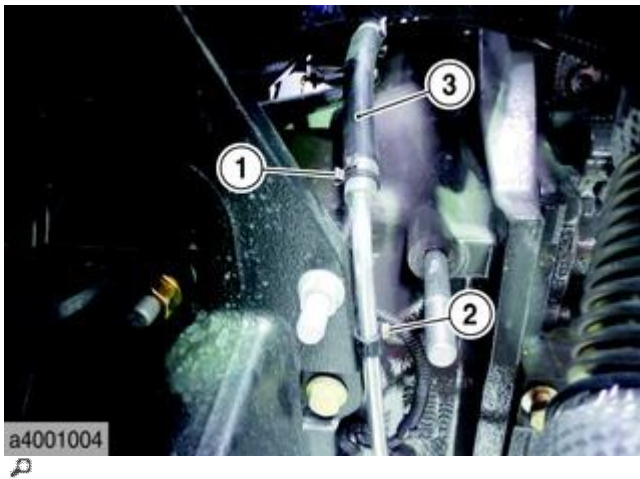
- ▶ Drain the engine. 
- ▶ Drain the air conditioning circuit.
- ▶ Drain the pneumatic brake circuit (optional).
- ▶ Drain the cooling circuit.
- ▶ Remove the engine bonnet.
[Engine bonnet](#)
.
- ▶ Remove the left-hand tank.
[Main tankFunction:01 Engine](#)
.
- ▶ Remove the exhaust gas post-treatment system. .



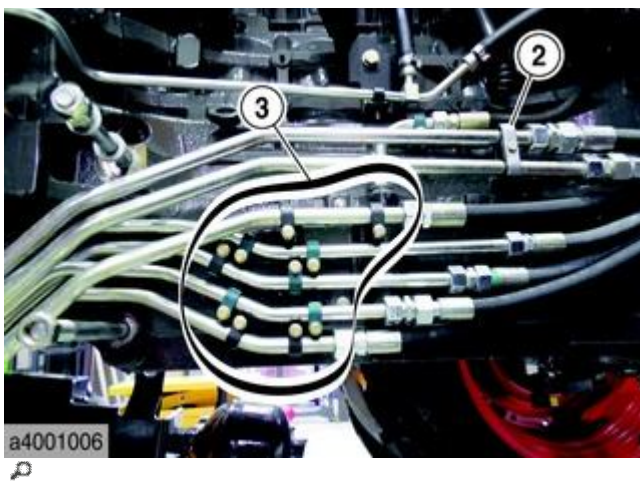
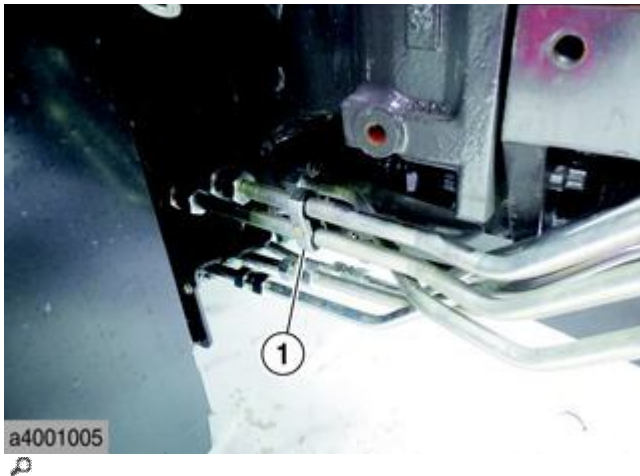
- ▶ Remove bolts (1) and (2) and (6).
- ▶ Remove the protective panel (3).
- ▶ Disconnect the electric starting motor wiring harnesses (4).
- ▶ Remove the electric starting motor (5).



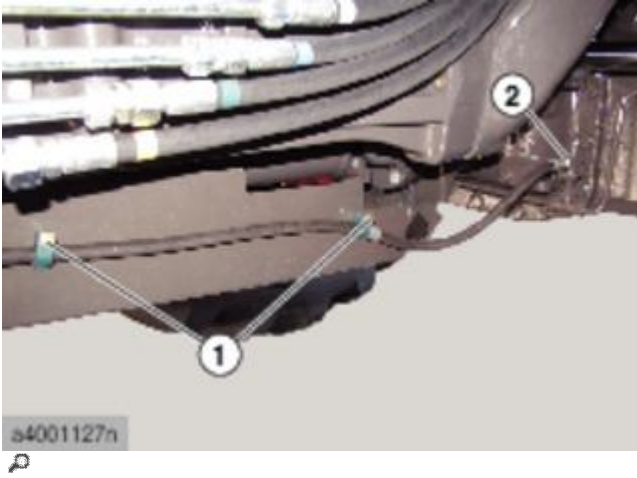
- ▶ Remove the bolts (1).
- ▶ Move aside the protective panel (2).



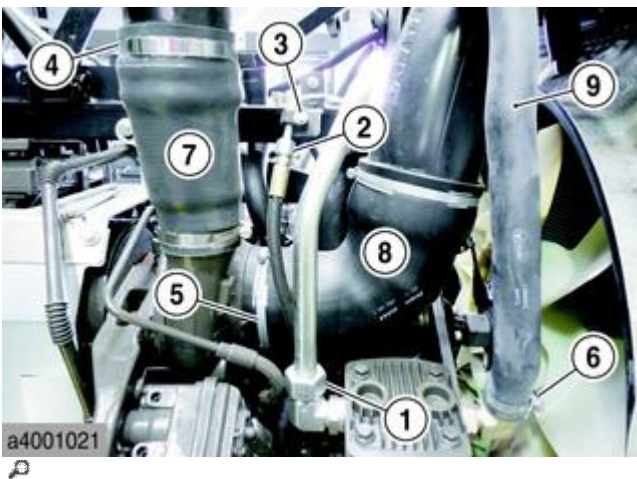
- ▶ Remove the clamp (1).
- ▶ Remove the bolt (2) from the mounting clamp.
- ▶ Remove the coolant hose (3).



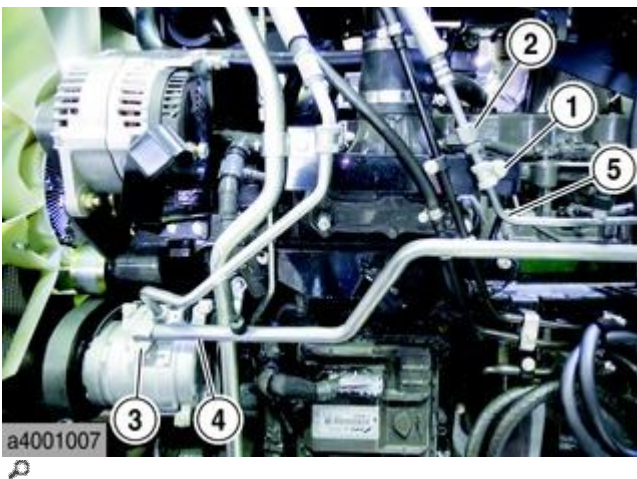
- ▶ Remove the mounting clamps (1), (2) and (3).
- ▶ Mark and remove the rigid pipe connectors.



- ▶ Remove the clamps (1).
- ▶ Loosen the flexible pipe connector (2).

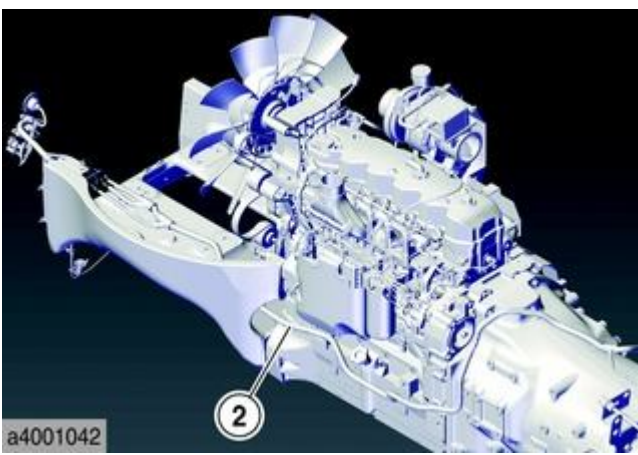


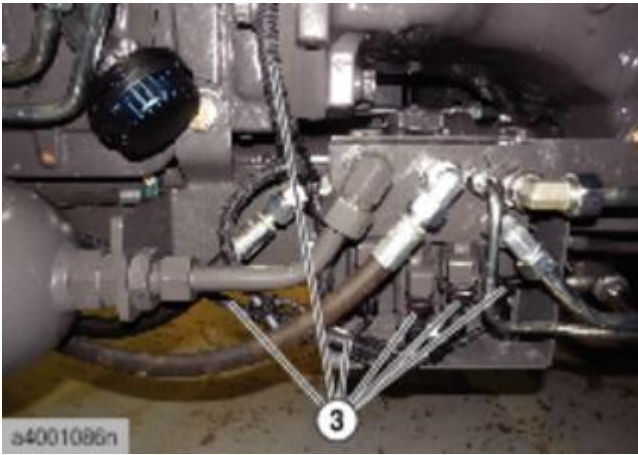
- ▶ Undo connectors (1) and (2).
- ▶ Remove the clamp (3).
- ▶ Remove the clamps (4), (5), (6) and remove the hoses (7), (8) and (9).



- ▶ Remove the clamp (1).
- ▶ Remove the connector (2) and the bolt (3).
- ▶ Remove the air conditioning pipes (4) and (5).

Seal the openings of the air conditioning compressor. Attach the pipes to the cabin.

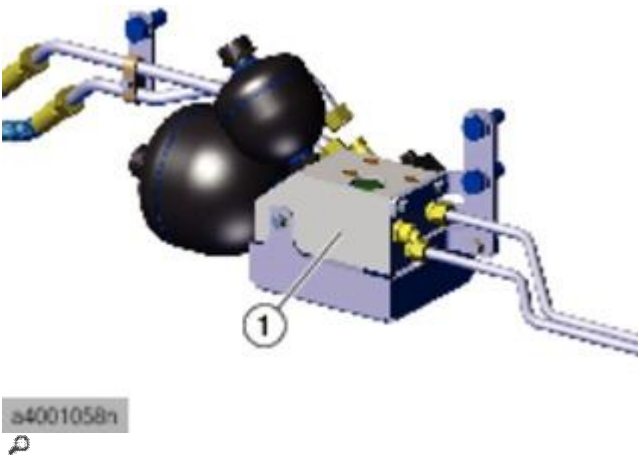




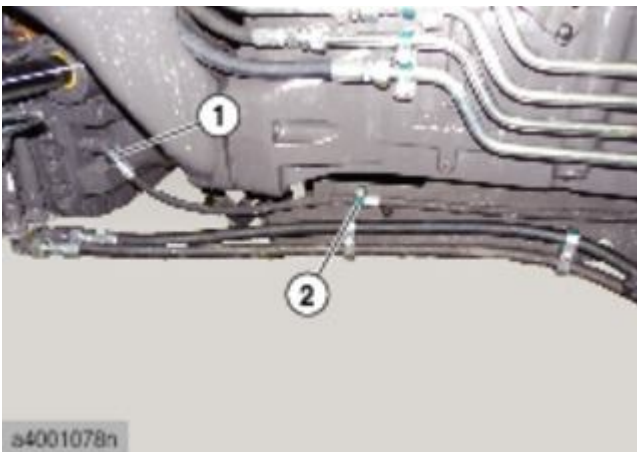
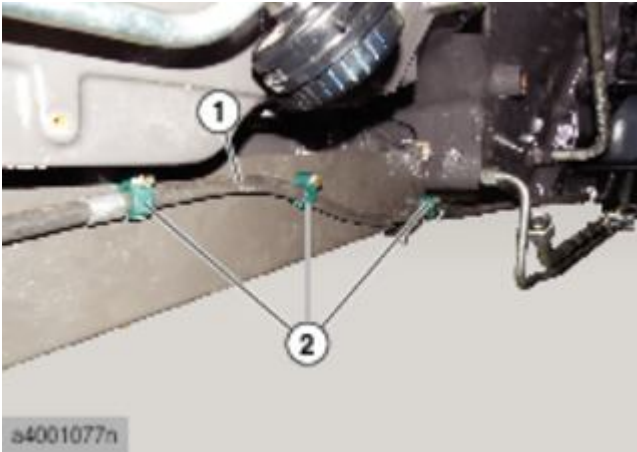
- ▶ Mark and disconnect the electrical wiring harness (1) of the engine.
- ▶ Mark and disconnect the electrical wiring harness (2) of the front linkage.
- ▶ Mark and disconnect the electrical wiring harness (3) of the front axle.



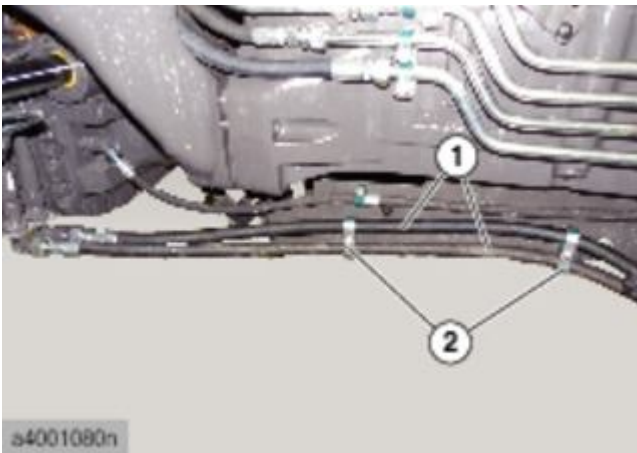
- ▶ Remove the bolts (1).
- ▶ Remove the tank mounting panel (2).



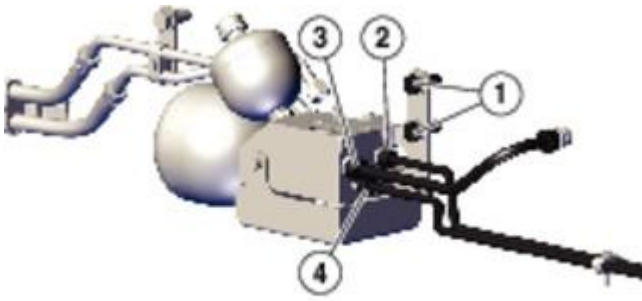
- ▶ Decompress the front axle suspension circuit by acting on the suspended front axle hydraulic block (1).
Decompressing the CARRARO front axle suspension hydraulic circuit



- ▶ Remove the clamps (2).
- ▶ Undo the flexible pipe connector (1).

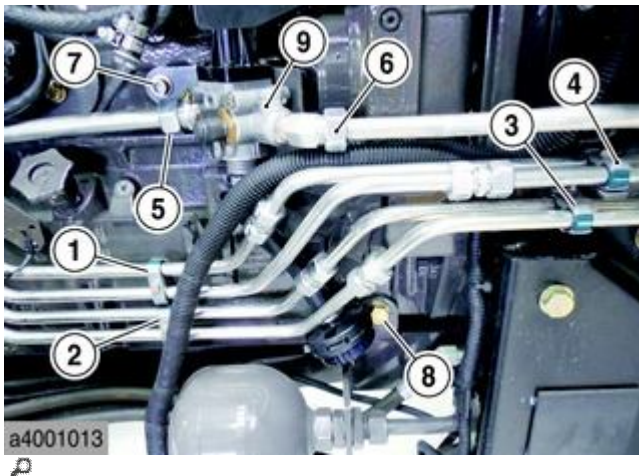


- ▶ Remove the clamps (2).
- ▶ Undo the pipe connectors (1).



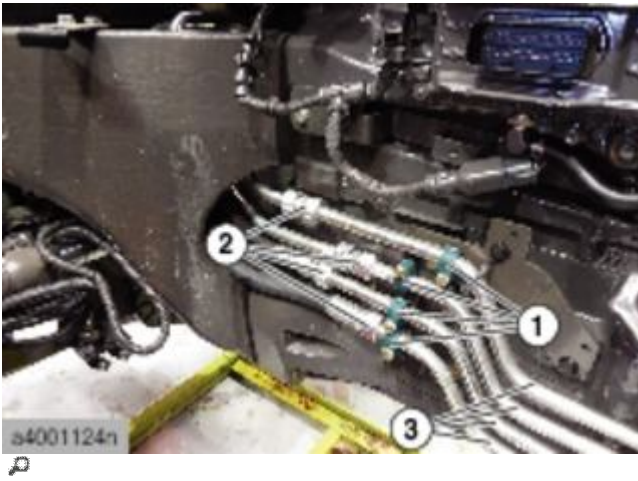
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- ▶ Uncouple the pipes (2), (3) and (4).
- ▶ Remove the bolts (1) from the front axle hydraulic block support.
- ▶ Remove the suspended front axle hydraulic block.

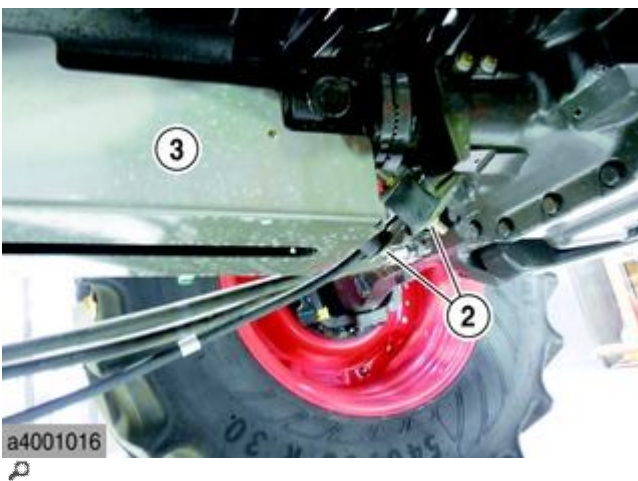


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- ▶ Remove the clamps (1), (2), (3) and (4).
- ▶ Uncouple the hydraulic connectors.
- ▶ Uncouple the air connectors (5) and (6) (optional).
- ▶ Remove the bolts (7) and (8) from the air regulator support (optional).
- ▶ Remove the air regulator (9) (optional).



- ▶ Remove the clamps (1).
- ▶ Mark and uncouple the hydraulic connectors (2).
- ▶ Remove the pipes (3).



- ▶ Remove the nuts (1) and (2) from the transmission shaft protective panel.
- ▶ Remove the transmission shaft protective panel (3).

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