

AXION 960-920

Repair manual

Original repair manual

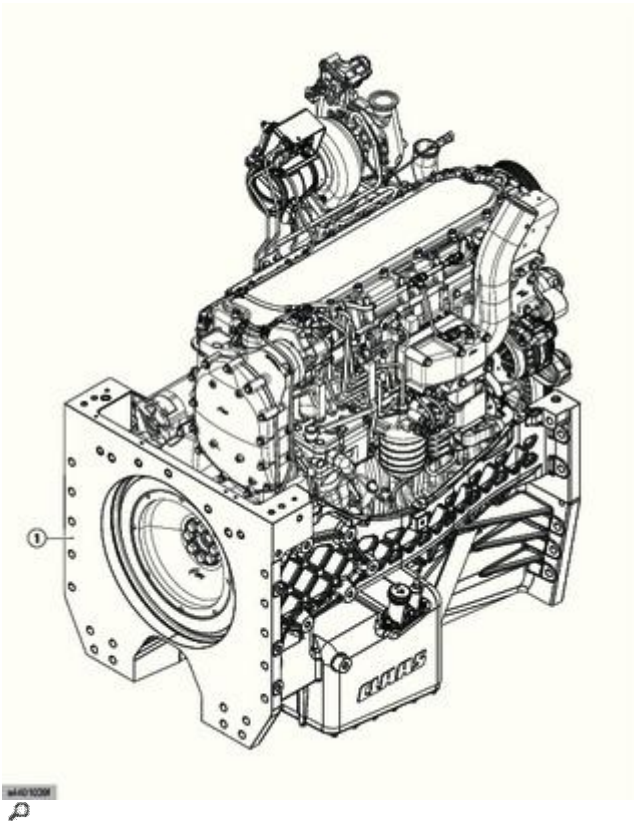
Validity of this repair manual

This repair manual applies to the following tractors:

| Description | Type | Tractor serial number | |
|---------------|------|-----------------------|----|
| | | from | to |
| AXION 960-920 | A44 | A4400050 | — |

Complete engine

Technical specifications



| Number | Value | Note – Description |
|--|---------|--------------------|
| For unspecified tightening torques, refer to the section entitled: "Tightening torques". | | |
| 1 | 1450 kg | Complete engine |

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

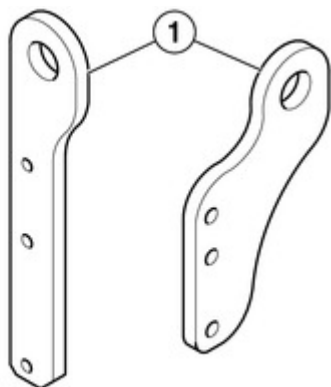
| Special tool – Reference no. |
|---|
| Carriage to be uncoupled No. 00 1148 105 0 |



00 1148 106 0

p

| Special tool – Reference no. |
|--------------------------------|
| Extension No. 00 1148 106 0 |






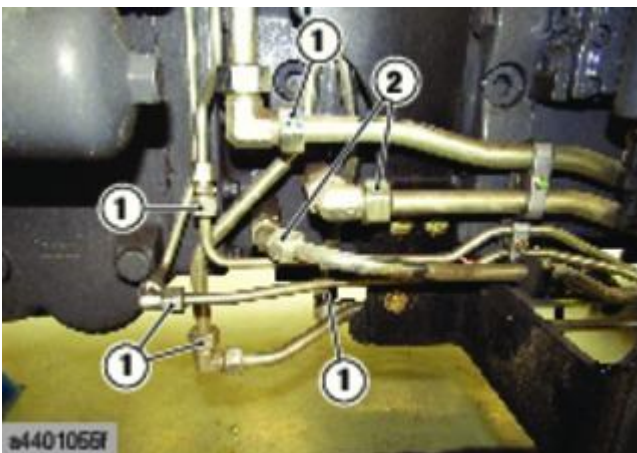
00 1144 239 0

p

| Special tool – Reference no. |
|--|
| Engine lifting device No. 00 1144 239 0 |

Removal

- ▶ Before carrying out any removal operations, if the tractor is equipped with a suspended front axle, position the front axle in the bottom position in fixed mode.  (7 Use → 7.3 Chassis).
- ▶ Before carrying out any removal operations, if the tractor is equipped with a front linkage, position the linkage in the bottom position.  (7 Use → 7.7 Front linkage).
- ▶ Disconnect the battery.
- ▶ Remove the front wings (if fitted).
- ▶ Drain the engine as necessary. 
- ▶ Drain the coolant circuit.
- ▶ Drain the air conditioning circuit.
- ▶ Decompress the front axle suspension circuit (if fitted).
Decompressing the front axle suspension circuitFunction:03 Chassis
- ▶ Decompress the brake circuit.
Cut-out relay
- ▶ Drain the pneumatic braking circuit.
- ▶ Remove the engine bonnet.
Engine bonnet
- ▶ Remove the main tank.
Main tank
- ▶ Remove the secondary tank.
Secondary tankFunction:01 Engine
- ▶ Remove the "SCR" and "CUC" catalytic converter unit with its support.
"SCR" and "CUC" catalytic converter unit



If equipped with front hydraulic control valves:

On the right-hand side of the tractor:

▶ Disconnect the unions (1).

▶ Disconnect the unions (2).

Plug the unions (2) if the transmission has not been drained.

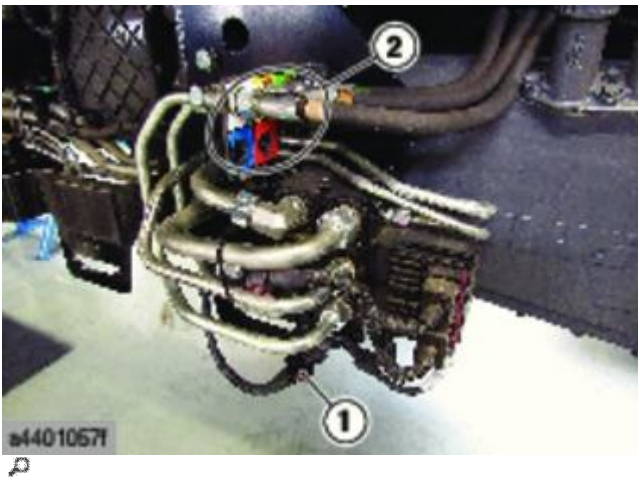


If equipped with front hydraulic control valves:

On the right-hand side of the tractor:

▶ Disconnect the connector (1) from the lubrication oil pressure sensor B143.

▶ Undo and remove the bolts (2).

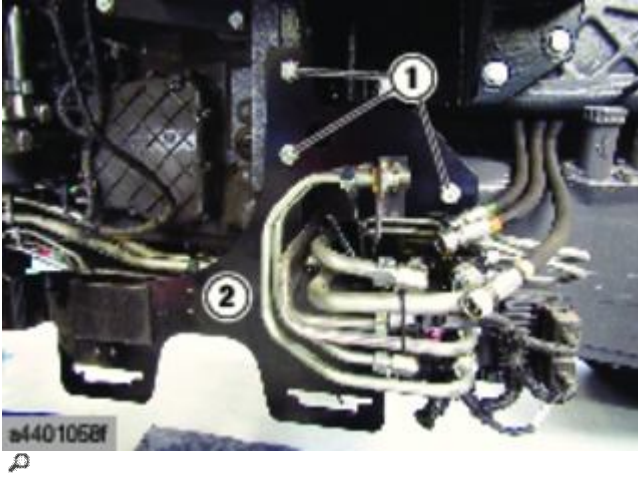


If equipped with front hydraulic control valves:

On the right-hand side of the tractor:

▶ Disconnect the connector (1).

▶ Disconnect the unions (2) depending on the options.



If equipped with front hydraulic control valves:

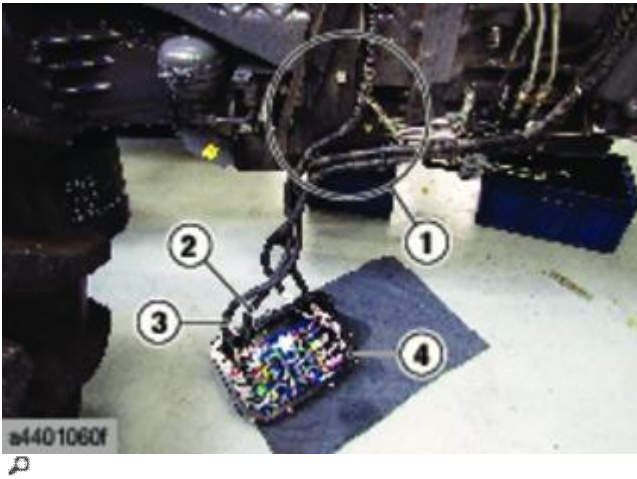
On the right-hand side of the tractor:

- ▶ Undo and remove the bolts (1).
- ▶ Remove the assembly (2).



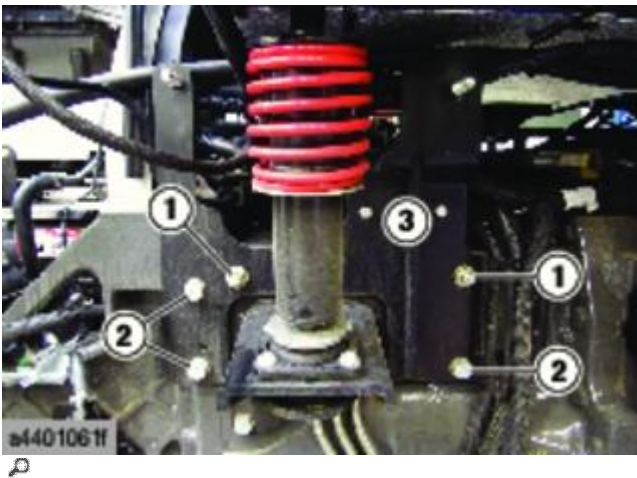
On the right-hand side of the tractor:

- ▶ Detach the wiring harness (1).
- ▶ Detach the connector (2)
- ▶ Remove the right-hand ladder support (3).



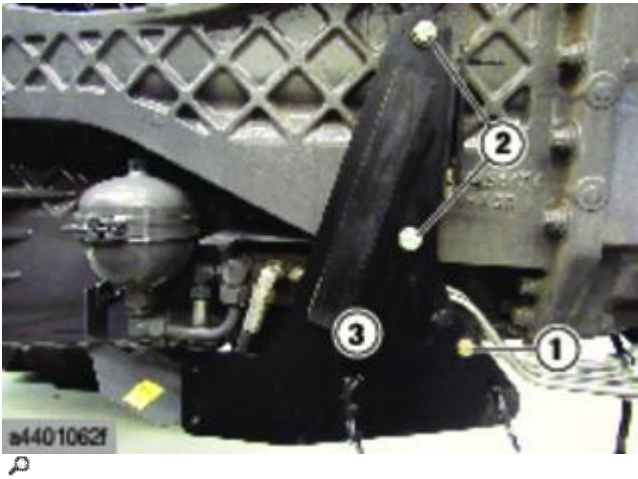
On the left-hand side of the tractor:

- ▶ Detach the wiring harnesses (1).
- ▶ Detach and disconnect the wiring harness (2) for the PSP (4) and move it towards the engine.
- ▶ Detach and disconnect the wiring harness (3) for the PSP (4) and move it towards the front of the tractor.
- ▶ Affix the PSP (4) towards the rear of the tractor.



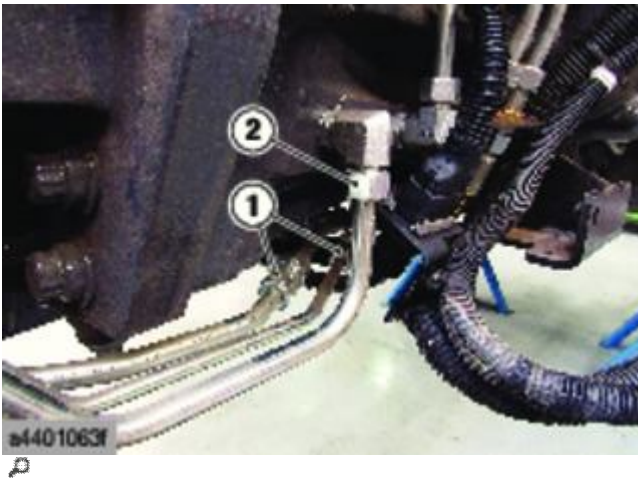
On the left-hand side of the tractor:

- ▶ Undo and remove the nuts (1).
- ▶ Undo and remove the bolts (2).
- ▶ Remove the tank support (3).



On the left-hand side of the tractor:

- ▶ Undo and remove the bolts (1) and (2).
- ▶ Remove the tank support (3).



If equipped with a suspended front axle:

On the left-hand side of the tractor:

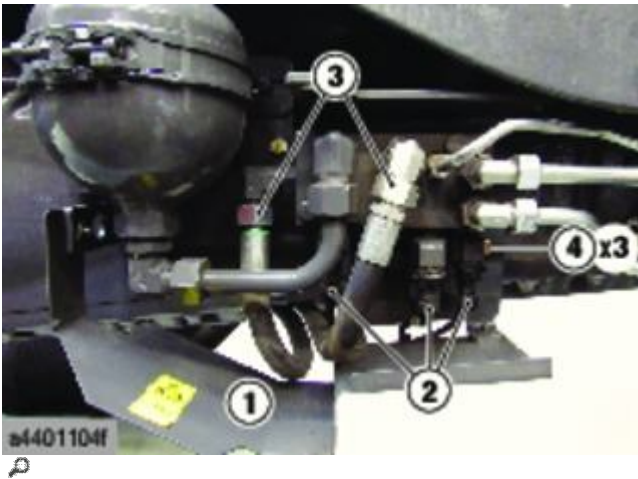
- ▶ Disconnect the unions (1).
- ▶ Disconnect the connector (2).

Plug the union (2) if the transmission has not been drained.



On the left-hand side of the tractor:

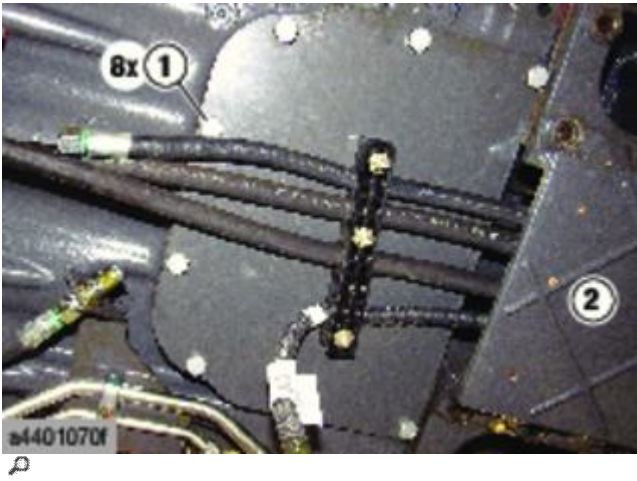
- ▶ Disconnect the connector (1).
- ▶ Disconnect the unions (2).



If equipped with a suspended front axle:

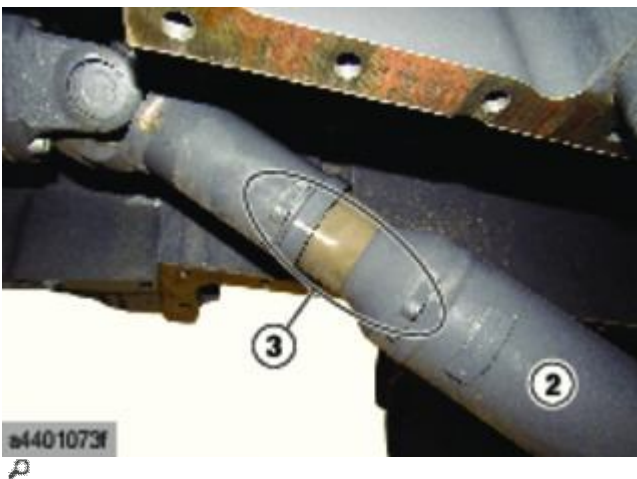
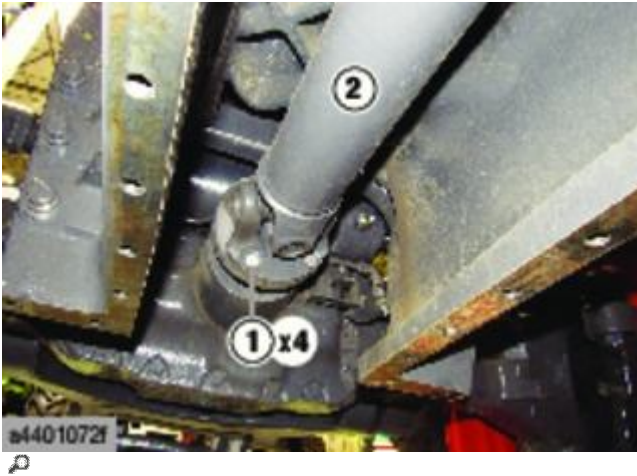
On the left-hand side of the tractor:

- ▶ Remove the protective panel (1).
- ▶ Disconnect the connectors (2) from the front axle suspension solenoid valve block.
- ▶ Disconnect the front axle suspension hose unions (3).
- ▶ Undo and remove the bolts (4) and remove the hydraulic block from the front axle suspension.



Under the tractor:

- ▶ Undo and remove the bolts (1).
- ▶ Remove the stiffener panel (2).
Stiffener panel

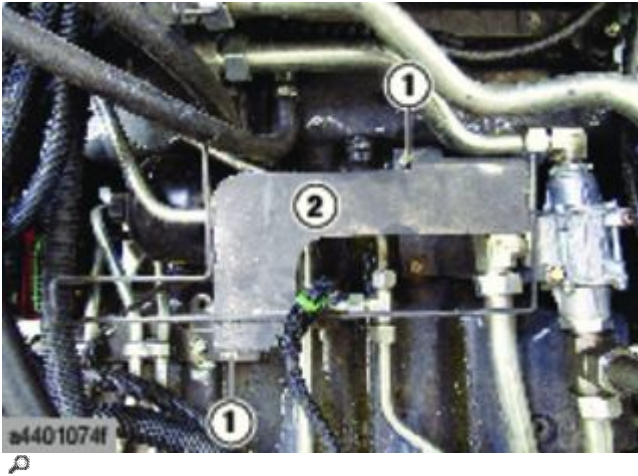


Under the tractor:

- ▶ Undo and remove the bolts (1).
- ▶ Hold the transmission shaft (2) in place.

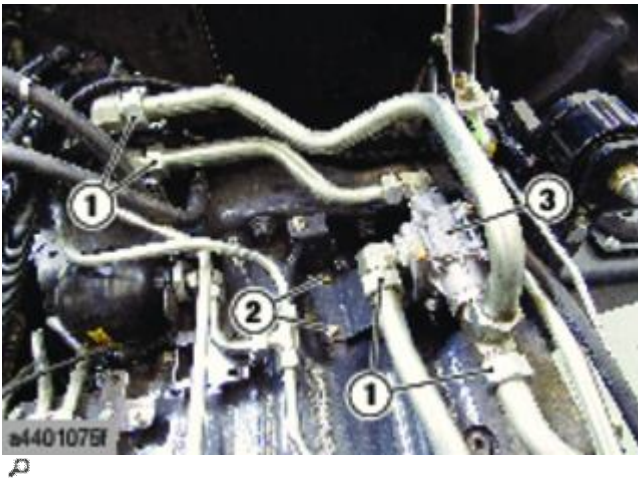
- ▶ Mark (3) the position of the transmission shaft (2).

- ▶ Remove the transmission shaft (2).



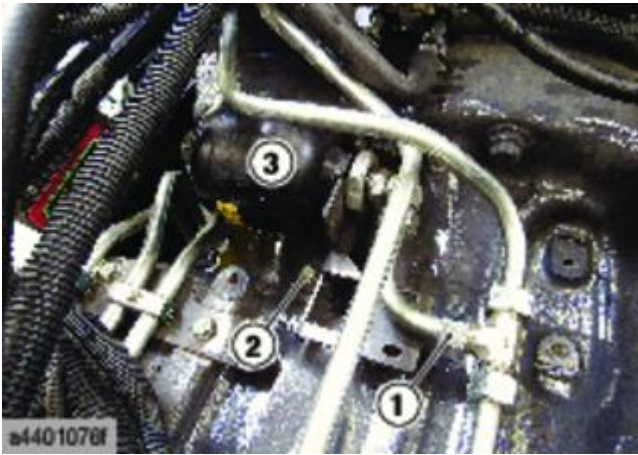
Above the transmission:

- ▶ Remove the cab.
Complete cab
- ▶ Undo and remove the bolts (1).
- ▶ Remove the support (2).



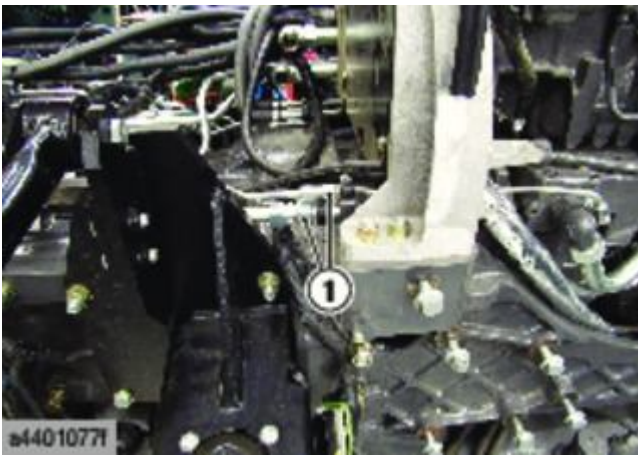
Above the transmission:

- ▶ Disconnect the unions (1).
- ▶ Undo and remove the bolts (2).
- ▶ Remove the thermostatic valve (3).



Above the transmission:

- ▶ Disconnect the union (1).
- ▶ Loosen and remove the bolt (2).
- ▶ Remove the accumulator (3).



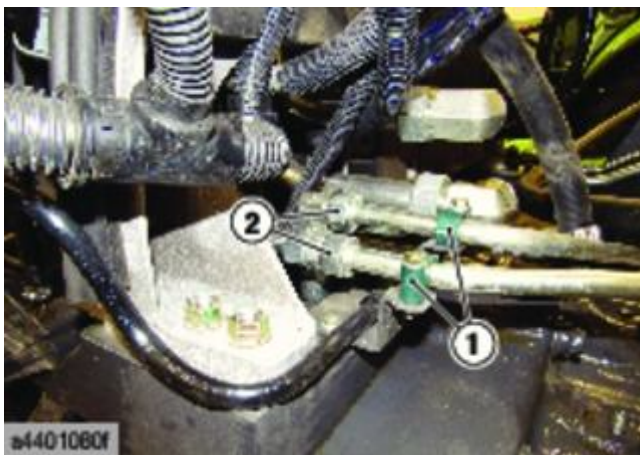
Above the transmission:

- ▶ Disconnect the unions (1).



Above the transmission:

- ▶ Disconnect the connectors (1).



Above the transmission:

- ▶ Remove the flanges (1).
- ▶ Disconnect the unions (2).



On the left-hand side of the tractor:

- ▶ Disconnect the supply and earth cables (1) from the electric starting motor.

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