

ARION 460-410

Repair manual

Original repair manual

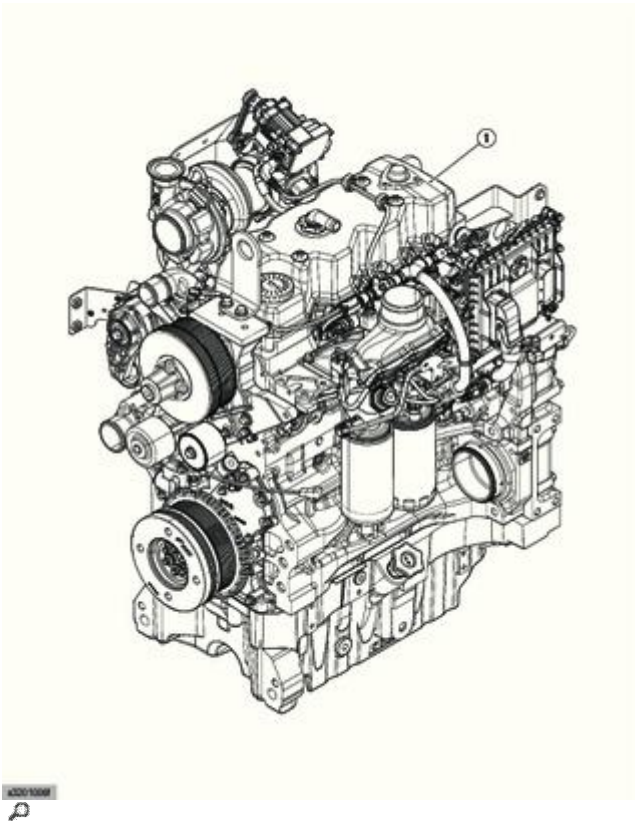
Validity of this repair manual

This repair manual applies to the following tractors:

Description	Type	Tractor serial number	
		from	to
ARION 460-430	A43	A4300000	—
ARION 420-410	A32	A3200000	—

Complete engine

Technical specifications



Number	Value	Note – Description
1	580 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



Special tool – Reference no.

Carriage to be uncoupled

No. 00 1148 105 0



00 1148 106 0



Special tool – Reference no.

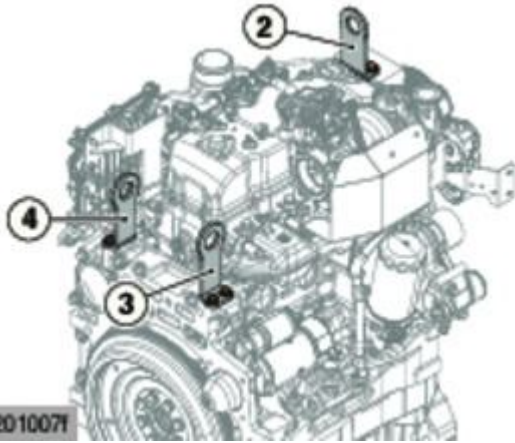
Extension

No. 00 1148 106 0



00 1152 8700





32010071

Ⓟ

Special tool – Reference no.	
1	Engine lifting brackets kit No. 00 1152 870 0
Component parts of the NEF 4 kit	
2	Bracket at the front of the engine No. 1149 878 1/3
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


Ⓟ



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

Removal

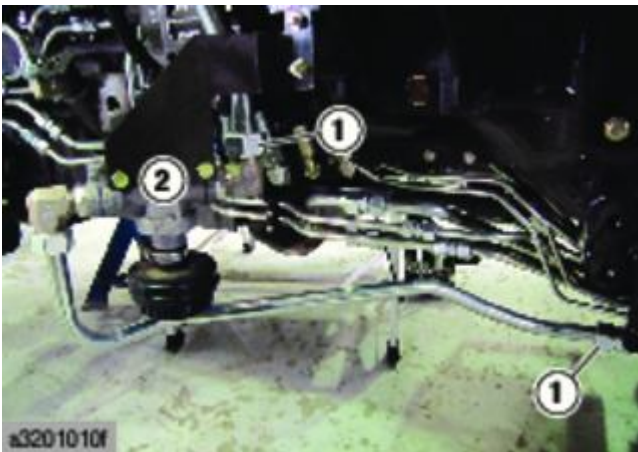


- ▶ Disconnect the battery.
- ▶ Remove the two front wheels.
- ▶ Remove the two front wings (optional).
- ▶ Remove the engine bonnet (1).
Engine bonnet
- ▶ Remove the left-hand side cover (2).
- ▶ Drain the engine. 
- ▶ Drain the A/C circuit.
Air conditioning – General information Function: 12 Cab – Driving position
- ▶ Drain the cooling circuit.

- ▶ Drain the pneumatic brake circuit (optional).
- ▶ Decompress the brake circuit.
- ▶ Decompress the suspended front axle circuit (optional).



- ▶ Remove the rear left-hand wheel.
- ▶ Remove the protective panels (1) and (2).
- ▶ Remove the main tank.
Main tank



- ▶ Disconnect the unions (1).
- ▶ Remove the pressure controller from the trailer air brake (2) and its support.

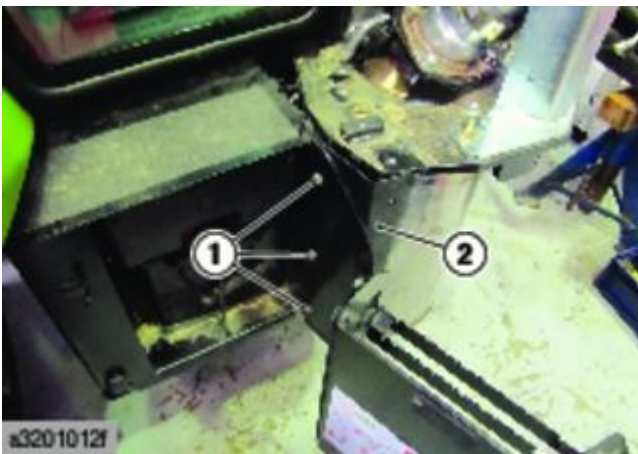


- ▶ If fitted, remove the bracket and side member (1) from the loader frame on the left-hand side using a suitable lifting tool.

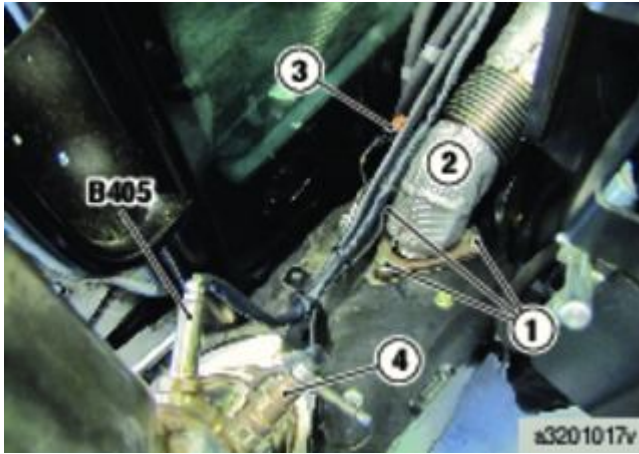
The left-hand bracket and left-hand side member assembly weighs 140 kg.



- ▶ Remove the exhaust booster (1).
- ▶ Remove the protective panels (2), (3) and (4).



- ▶ Remove the bolts (1) and the panel (2).



- ▶ Remove the bolts (1) from the exhaust tube (2).
- ▶ Disconnect the connector (3) of the catalytic converter outlet temperature sensor "B352".
- ▶ Disconnect the connector (4) of the ammonia (NH₃) sensor (B428).
- ▶ Disconnect the connector of the catalytic converter outlet temperature sensor "B405".



- ▶ Disconnect and plug the connectors (1).
- ▶ Remove the hoses from the "SCR" catalytic converter support.

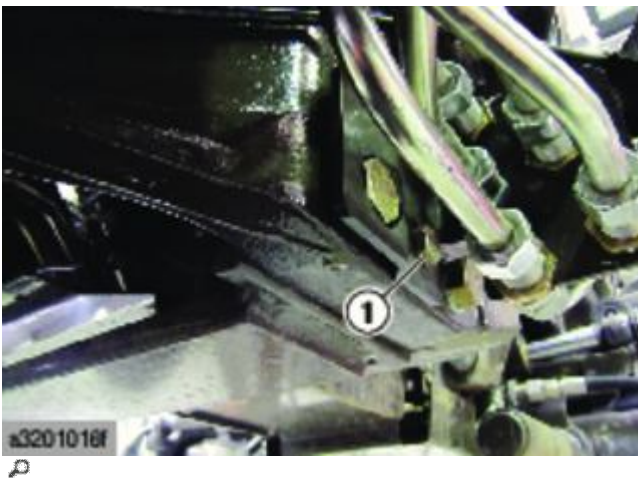


- ▶ Sling and remove the "SCR" catalytic converter assembly and its support and the booster foot using a suitable lifting tool.

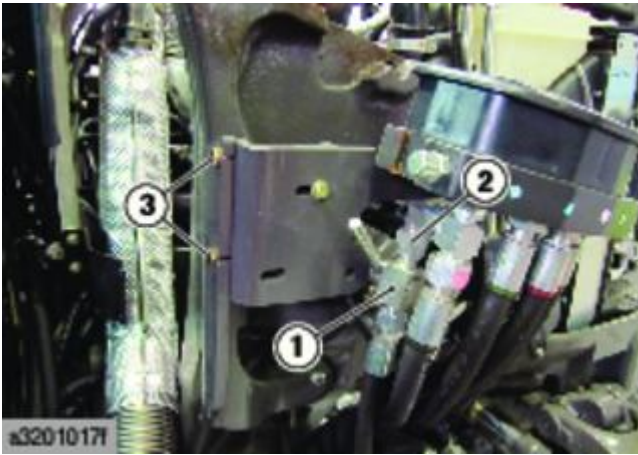
The assembly weighs 75 kg. Handle the assembly with care to avoid damaging the catalytic converter.



- ▶ If fitted, disconnect and detach the connector (1) used to control the front loader.



- ▶ If fitted, remove the bolt (1) mounting the pipe support to the front loader.

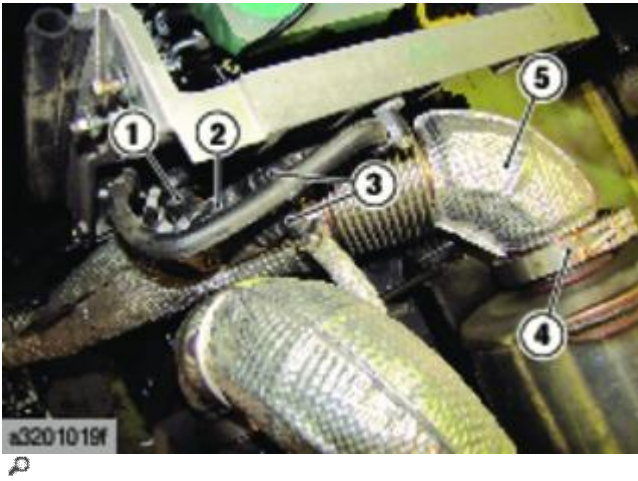


- ▶ If equipped with a front loader:
 - ▶ – Close the accumulator valve (1).
 - ▶ – Disconnect and plug the connector (2).
 - ▶ – Remove the bolts (3) and place the "MACH SYSTEM" on the ground, leaving the hydraulic pipes connected.



- ▶ If fitted, remove the bracket, side member and cross member (1) from the loader frame on the right-hand side using a suitable lifting tool.

The right-hand bracket, right-hand side member and cross member assembly weighs 155 kg.



⚠ CAUTION

AdBlue[®] is slightly corrosive.

Risk of injury.

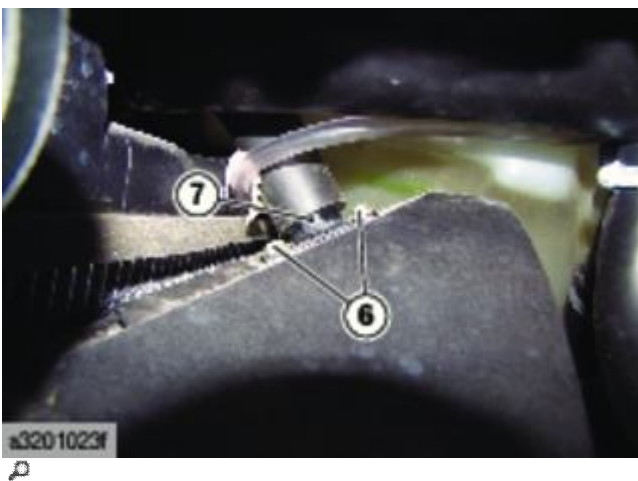
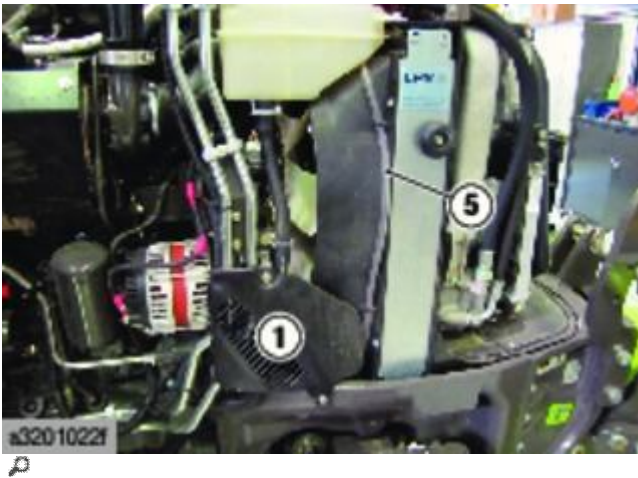
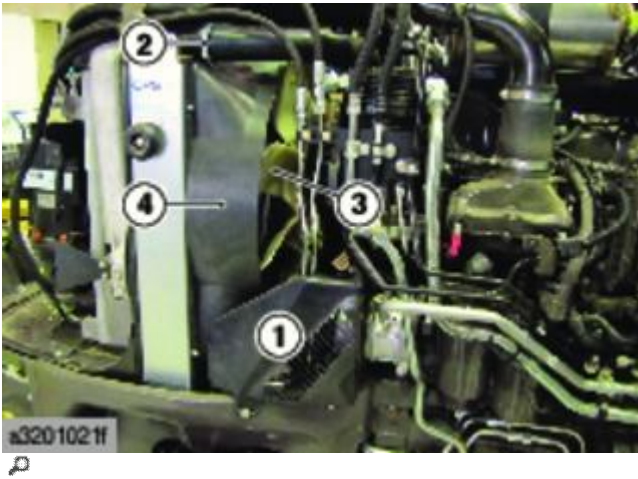
- ▶ Avoid contact with AdBlue[®].
- ▶ Wear gloves and protective goggles when handling AdBlue[®].
- ▶ In case of contact with the eyes or skin, rinse thoroughly in fresh water without rubbing.

- ▶ Disconnect the connector (1).
- ▶ Disconnect the urea injector supply pipe (2).
- ▶ Disconnect the coolant hoses (3).
- ▶ Remove the clamp (4).
- ▶ Remove the exhaust tube (5).



- ▶ Remove the protective panel from the electric starting motor.

- ▶ Disconnect the electric wiring harnesses from the electric starting motor (1).
- ▶ Remove the mounting bolts from the electric starting motor (2).
- ▶ Remove the electric starting motor (3).



- ▶ Remove the protective grilles (1).
- ▶ Loosen the clamp (2) and disconnect the hose.

- ▶ Unscrew the fan (3).

Note the direction of loosening of the nut, as this nut has a left-handed thread.

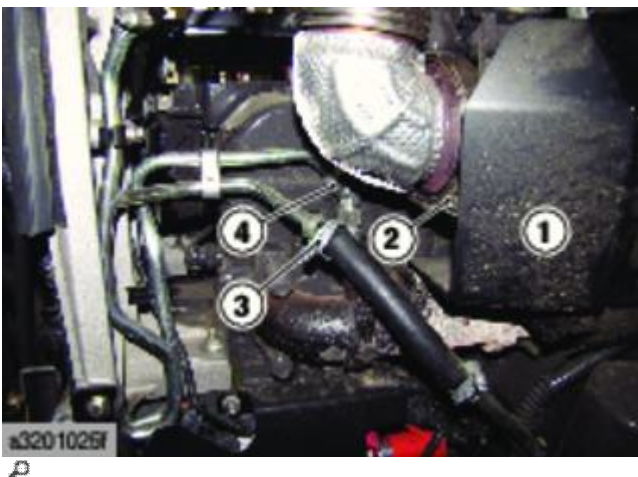
- ▶ Remove the mounting bolts from the radiator nozzle (4).
- ▶ Detach the coolant tank overflow pipe (5).
- ▶ Remove the bolts (6) and remove the tube and the hose (7) from the nozzle.
- ▶ Simultaneously remove the fan (3) and the nozzle (4) from the right-hand side of the engine.



- ▶ Remove the bolts (1) of the front power take-off drive flange (optional).

Turn the engine with the special flywheel rotating tool to access the bolts.

- ▶ Move aside the front power take-off shaft (2).



- ▶ Remove the turbocharger protective panel (1).
- ▶ Remove the clamp (2).
- ▶ Loosen the clamp (3) and disconnect the hose.
- ▶ Disconnect the connector (4).

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