



AVERO 240

Repair manual

Genuine repair manual

Validity of manual

This manual applies to the following machine / front attachment:

Designation	Type	Serial number	
		from	to
AVERO 240	451	451 00011	–



p

- ▶ Remove ladder (1).
- ▶ Remove railing (2).




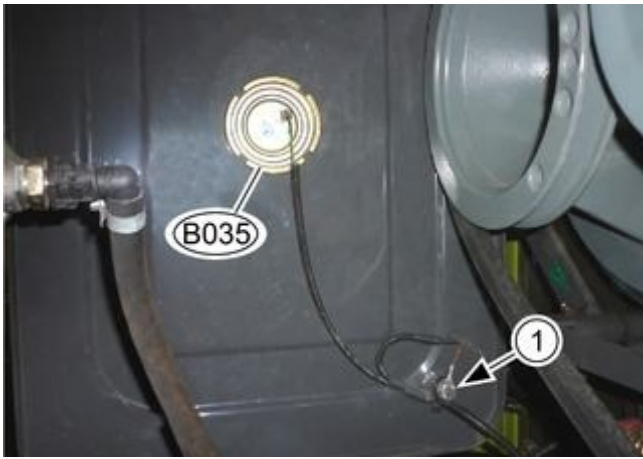
p

- ▶ Remove sheet metal (1).



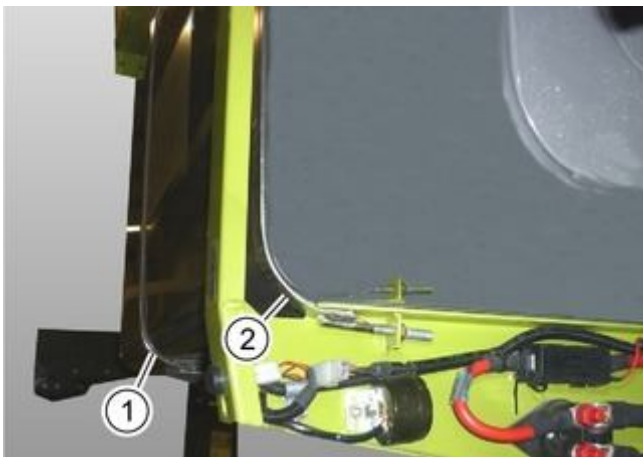
p

- ▶ Pinch off fuel lines (1) and (2) with a special tool. 
- ▶ Unlock fuel lines (1) and (2) and disconnect them from the fuel tank.



D

- ▶ Disconnect connector from tank sensor (B035).
- ▶ Unscrew cable from tank at (1).



D

- ▶ Remove holding straps (1) and (2).



D

- ▶ Remove bracket (1).



- ▶ Remove the fuel tank.
Weight of fuel tank:
approx. 45 kg

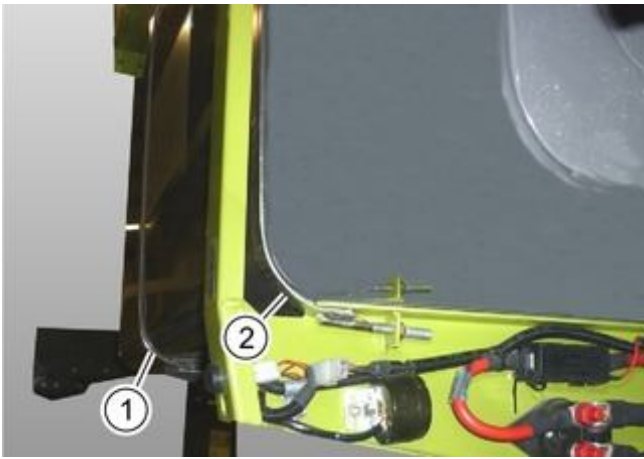
Installation



- ▶ Insert fuel tank into the bracket.
Weight of fuel tank:
approx. 45 kg

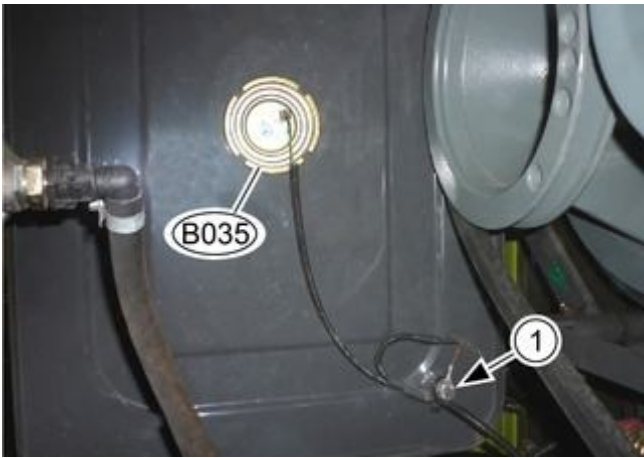


- ▶ Install bracket (1).



⌵

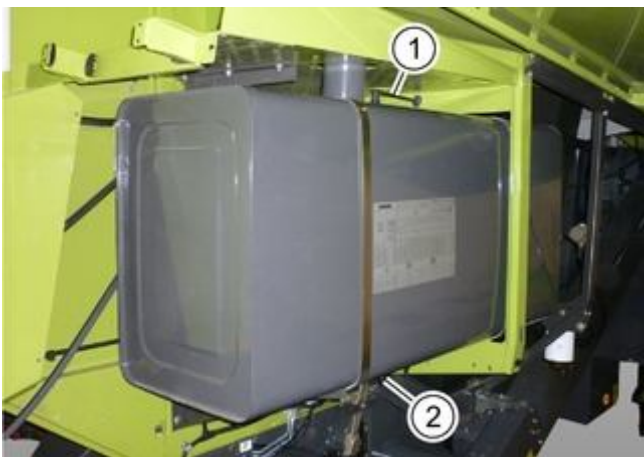
- ▶ Install holding brackets (1) and (2).



⌵

Observe the specifications in the overview!

- ▶ Plug connector in tank sensor (B035).
- ▶ Screw cable to the tank at (1).



⌵

Observe the specifications in the overview!

- ▶ Connect and lock fuel lines (1) and (2) on the fuel tank.
- ▶ Remove special tool (hose clamps).



▫


- ▶ Fit sheet metal (1).





▫

- ▶ Fit ladder (1).
- ▶ Install railing (2).

- ▶ Refuel. 

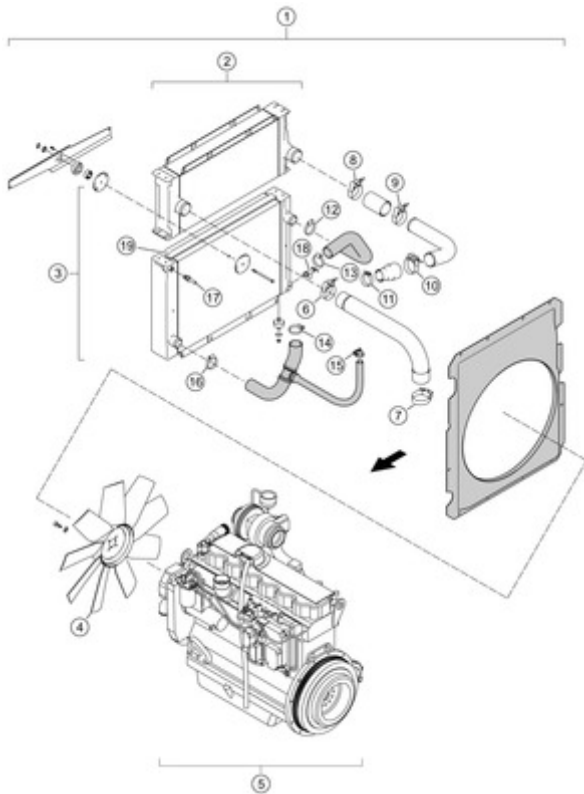
- ▶ Switch on the battery isolating switch. 

- ▶ Bleed fuel system. 



- ▶ Start the diesel engine and let it run at slow idling speed. 

- ▶ Carry out a leakage test.

Cooling system



Overview of CATERPILLAR C-6.6 diesel engine cooling system

Item	Value	CCN	Remark / designation
1			CATERPILLAR C-6.6 diesel engine cooling system
2			Charge air cooler
3			Radiator
4			Fan blades
5			CATERPILLAR C-6.6 diesel engine 
6 - 11	10 Nm		Clamps (6 - 11) with threaded bolts and spring
12 - 16			Observe the specified torque of clamps (12 - 16)! 
17, 18			Install union (17) and drain cock (18) with sealing tape.
19			Check dampening rubber (19) prior to installation and replace if necessary.
Torque values not specified, see section on torques			

WARNING

Contact with hot liquids or machine parts.

Danger of burns

- ▶ Wear suitable protective clothing.
- ▶ Let liquids or machine parts cool down.
- ▶ Comply with instructions.

Environment!

Coolant ending up in the environment.

Environmental pollution

- ▶ Collect and store coolant in suitable containers and ensure proper disposal.

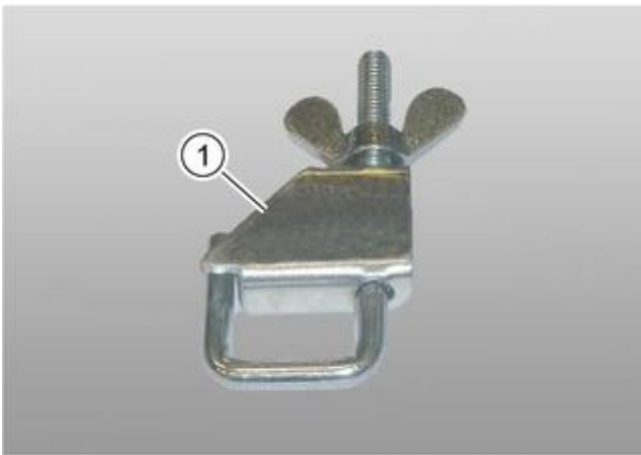
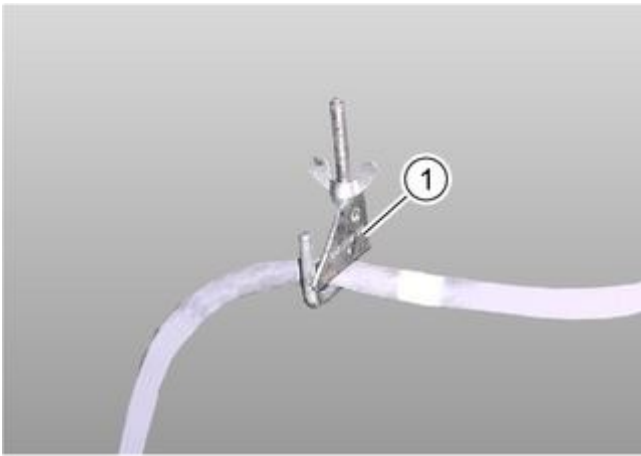
Work preparation

Operating utilities:

- ▶ Sealing tape, e.g.:
Teflon tape - 00 0136 540 0

Auxiliary tool:

- ▶ Coolant collecting tank

Special tool

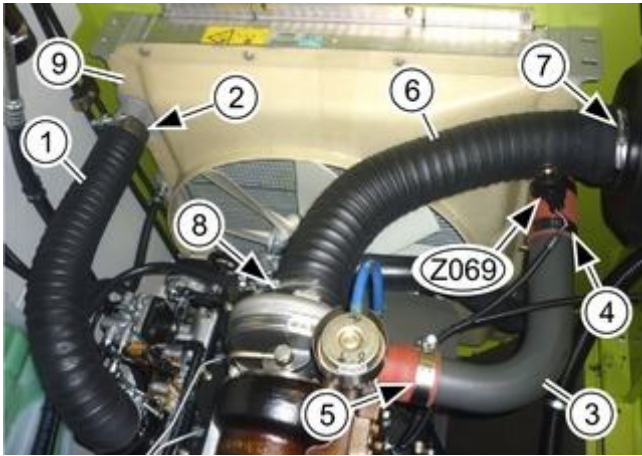
Pinch off hose line (only flexible hoses up to 35 mm diameter max.)

	Special tool / part no.	Pcs.
1	Hose clamp 00 0181 867 0	

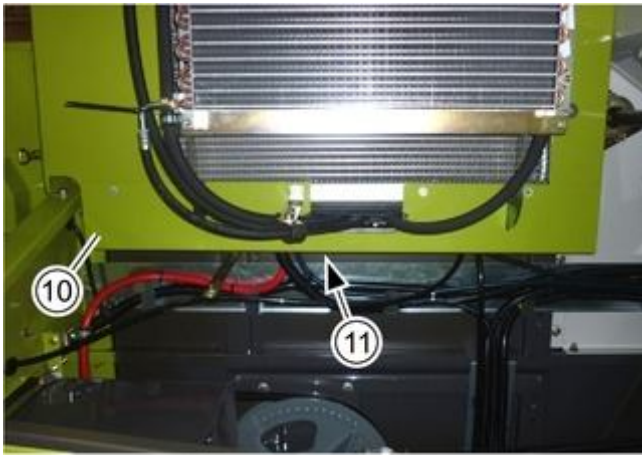
Removing the charge air cooler

- ▶ Let the diesel engine cool down.

- Disconnect the battery isolating switch. 



►



►

- Unlock and disconnect connector from switch (Z069).
- Slacken off and disconnect hose (1) at (2).
- Slacken off and disconnect tube (3) at (4) and (5).
- Slacken off and disconnect hose (6) at (7) and (8).
- Unscrew cover (9) at the top and at the side.
- Unscrew plate (10).
- Unscrew cover (9) at the bottom at (11).



►

- Unscrew charge air cooler (1) and remove it along with cover (2).
Weight of charge air cooler:
approx. 30 kg

Installing the charge air cooler

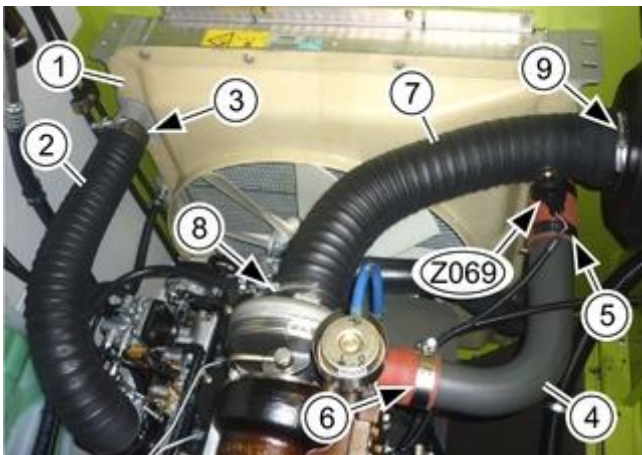
- Before mounting, check the dampening rubber between the coolers and all hose lines and unions and replace if necessary.



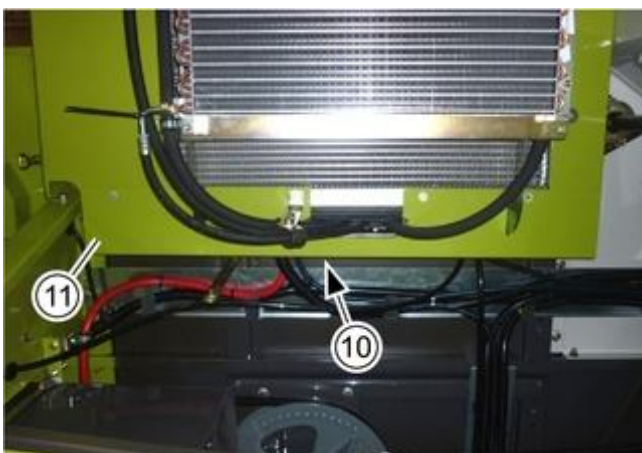
►

Observe the specifications in the overview!

- Move charge air cooler (1) with cover (2) to the mounting position and bolt it down.
Weight of charge air cooler:
approx. 30 kg




►





Observe the specifications in the overview!

- Bolt down cover (1) at the top and at the side.
- Fit hose (2) at (3) and fix with a clamp.

- ▶ Fit tube (4) at (5) and (6) and fix with clamps.
- ▶ Plug connector on switch (Z069) and lock it.
- ▶ Fit hose (7) at (8) and (9) and fix with clamps.
- ▶ Bolt down cover (1) at the bottom at (10).
- ▶ Bolt down plate (11).



- ▶ Switch on the battery isolating switch. 
- ▶ Perform a function check.

Removing the radiator

- ▶ Let the diesel engine cool down.
- ▶ Disconnect the battery isolating switch. 
- ▶ Drain the coolant. 

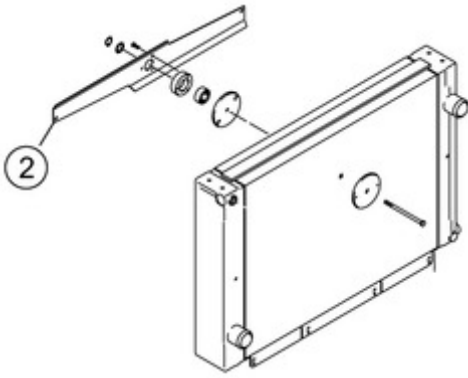


⌘

- ▶ Remove hose (1).
Collect any escaping coolant and dispose of it properly.
- ▶ Seal the openings tightly.
- ▶ Remove the fan blades. 
- ▶ Remove the charge air cooler. 

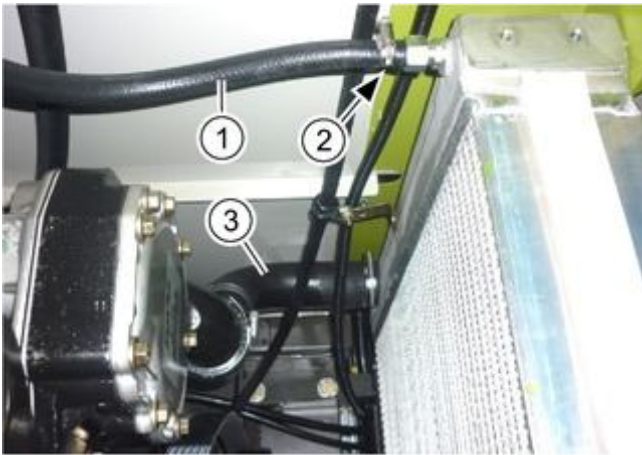


⌘



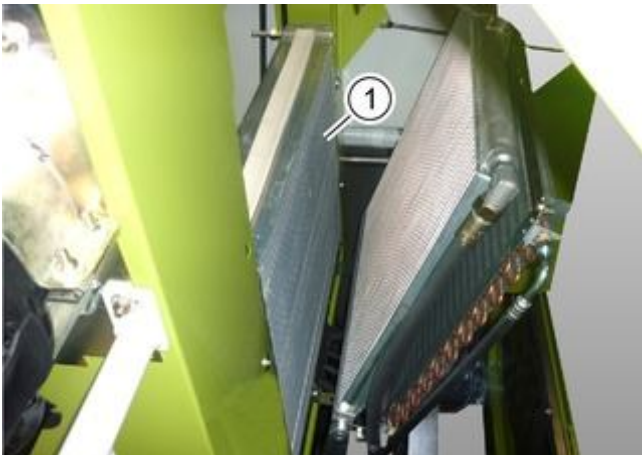
⌘

- ▶ Remove cover (1).
- ▶ Remove wind blade (2).



⌘

- ▶ Slacken off and disconnect hose (1) at (2).
Collect any escaping coolant and dispose of it properly.
- ▶ Remove hose (3).
Collect any escaping coolant and dispose of it properly.
- ▶ Seal the openings tightly.

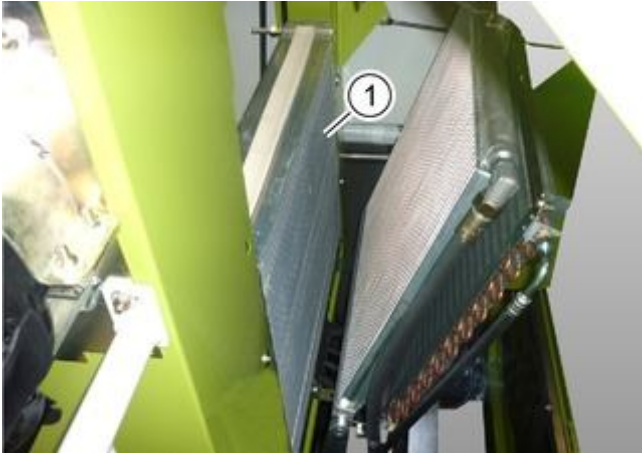


⌘

- ▶ Unscrew and remove water cooler (1).
Weight of water cooler:
approx. 50 kg
Collect any escaping coolant and dispose of it properly.
- ▶ Seal the openings tightly.

Installing the radiator

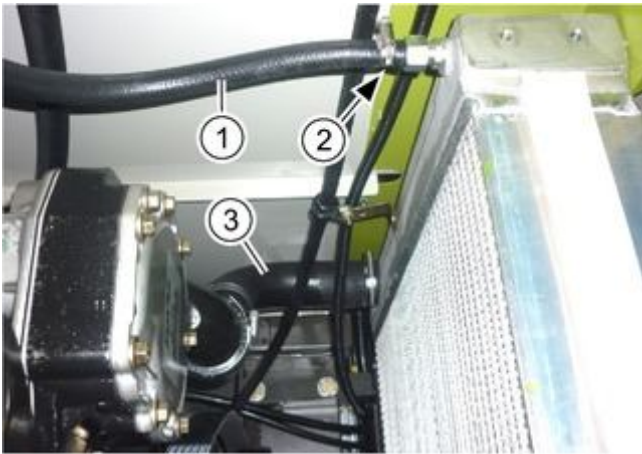
- ▶ Before mounting, check the dampening rubber between the coolers and all hose lines and unions and replace if necessary.



⤵

Observe the specifications in the overview!

- ▶ Insert radiator (1) and bolt it down.
Weight of water cooler:
approx. 50 kg



⤵

Observe the specifications in the overview!

- ▶ Fit hose (1) at (2) and fix with a clamp.
- ▶ Fit hose (3) and fix with clamps.



Buy Now



Our support email:

ebooklibonline@outlook.com