



DOMINATOR 40 TERRA TRAC

Repair Manual

Original Repair Manual

Diesel engine



Ⓟ

Item	Designation
1	TATA 497 TC 48 Diesel engine
Refer torque settings for torque values. <u>Tightening torques for metric fine thread screws</u>	

WARNING

Lifting heavy components

Risk of death or serious injury

- ▶ Use a lifting device with sufficient bearing load.
- ▶ Attach the lifting devices to the engine at the intended points.
- ▶ Protect lifting accessories against sharp corners and edges, for example using protectors.

Environment!

Lubricants and fuel end up in the environment.

Environmental pollution.

- ▶ Lubricants and fuel must be collected and stored in suitable containers and disposed of in a way that is harmless to the environment and in accordance with existing anti-pollution regulations.

CAUTION

Contact with hot liquids or machine parts.

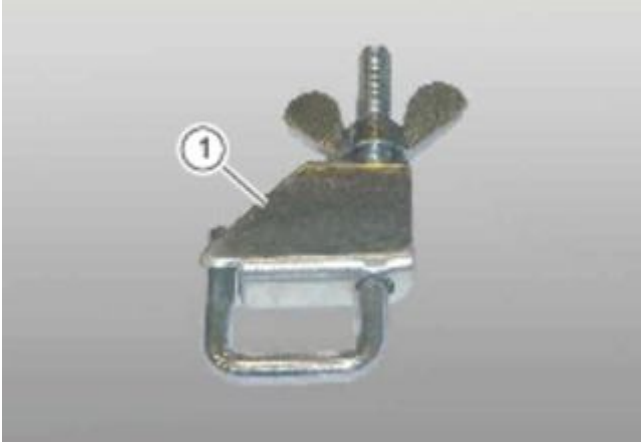
Danger of burns

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

Work preparation

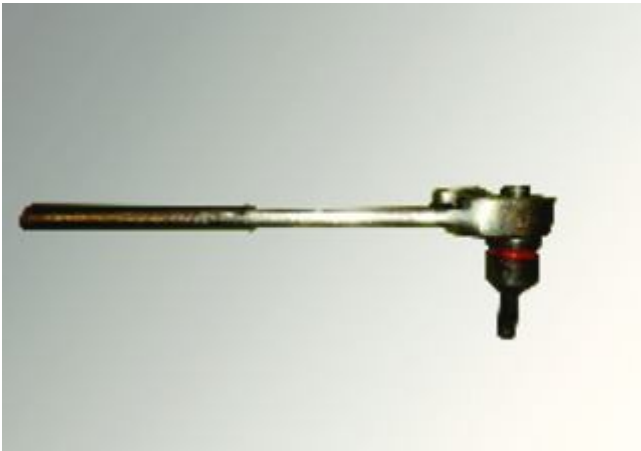
- ▶ Stop and secure the machine.
- ▶ Suitable lifting device:
Load-bearing capacity **510 kg min.**
- ▶ Suitable lifting gears (ropes and shackles) with appropriate load-bearing capacity.
- ▶ Oil collecting tank.
- ▶ Coolant collecting container.

Special tools



▢

Item	Special tool	Pcs
1	Hose clamp	1



Item	Special tool	Pcs.
1	Torque wrench	1



Item	Special tool	Pcs.
1	Torque wrench	1



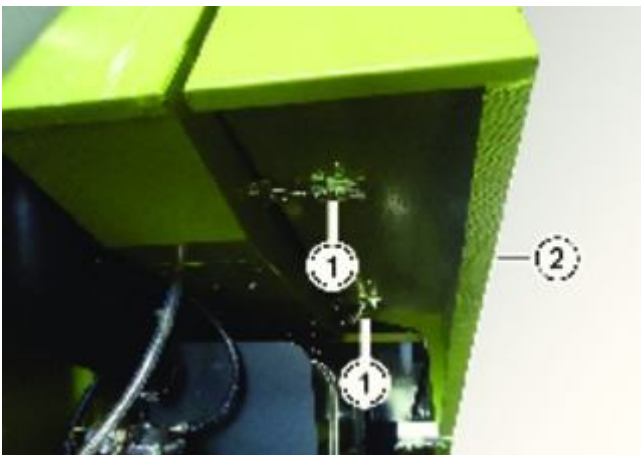
Item	Special tool	Pcs.
1	Key drawer	1

Removal of diesel engine

Before Removal:

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

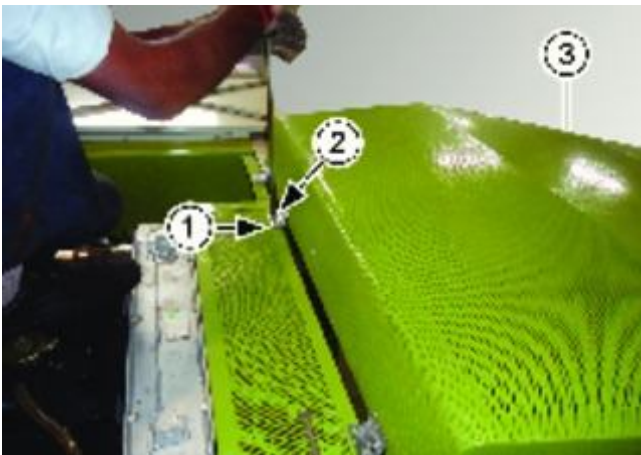
Removal of side flap



- ▶ Open locks (1) and lift the cover (2).



- ▶ Unscrew bolt (1) with wrench and separate cylinder spring (2).

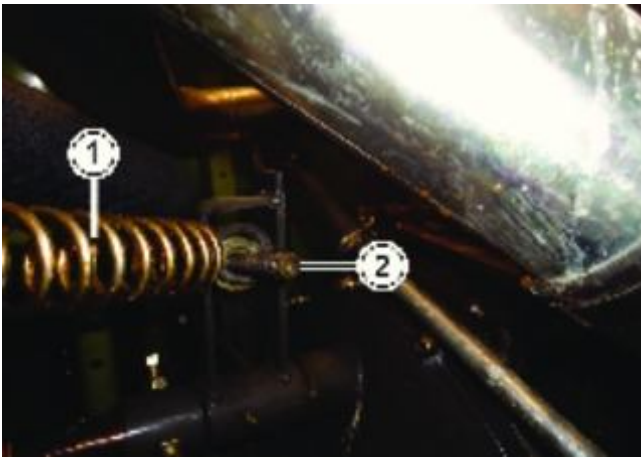


- ▶ Unscrew the sunk bolt (2) fixed to hinges (1).
- ▶ Remove cover (3).

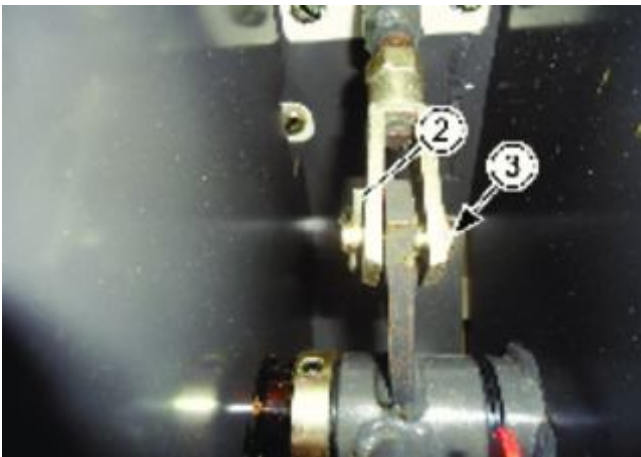
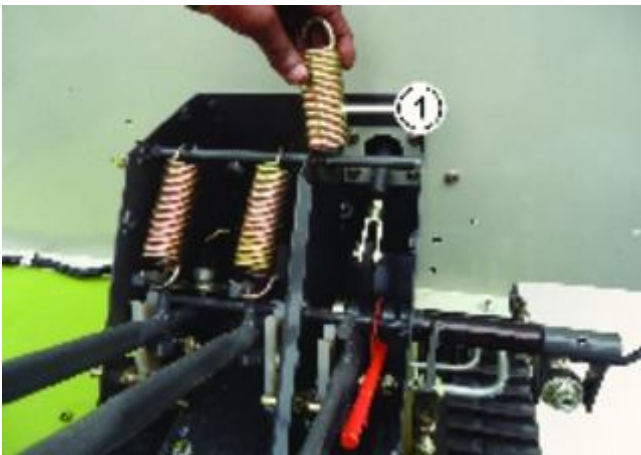
Tensioning device



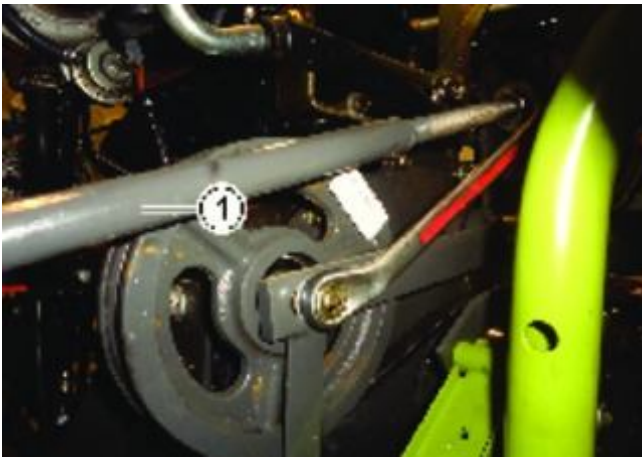
- ▶ Use key drawer and rotate spring (1) to remove it.



- ▶ Remove spring (1) from the threaded fork (2).



- ▶ Unhook the spring (1).
- ▶ Remove the split pin (2) and remove the pin (3).



- ▶ Remove pipe (1).

Tensioner belt



- ▶ Remove bolts (1) with spanner and loose the belt guard.



- ▶ Use torque wrench and remove socket head screw (1).



- ▶ Remove hexagonal screws (1) with spanner.



- ▶ Remove bolts (1) with wrench.



- ▶ Remove the intermediate flange (1) from pulley (2).

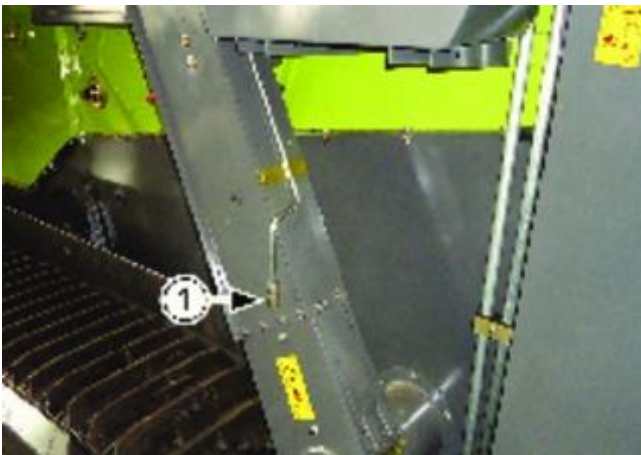


- ▶ Remove belt (R1).



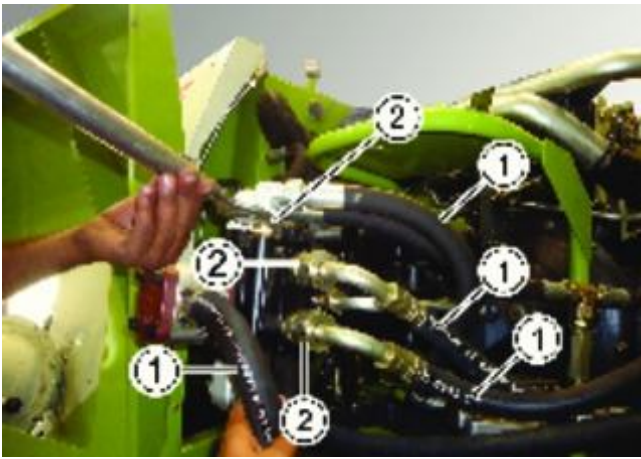
- ▶ Remove belt (1) from pulley (2).

Hydraulic hoses

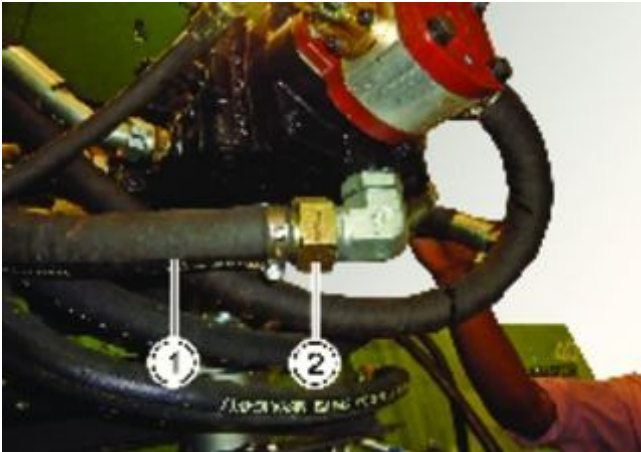


Before removal of hydraulic hoses.

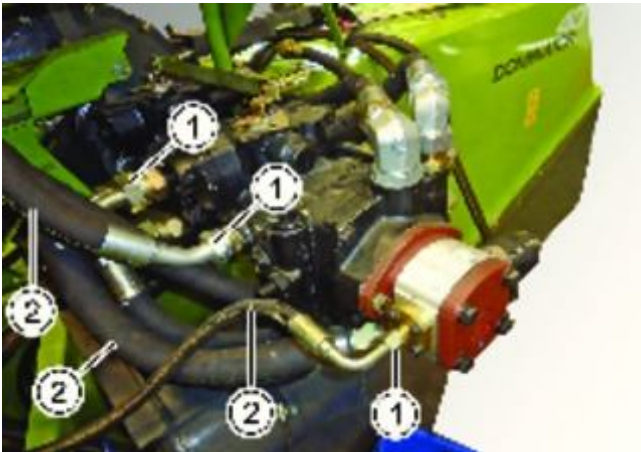
- ▶ Loose the nut (1).
- ▶ Collect the hydraulic oil and preserve it properly.
- ▶ Seal the openings.



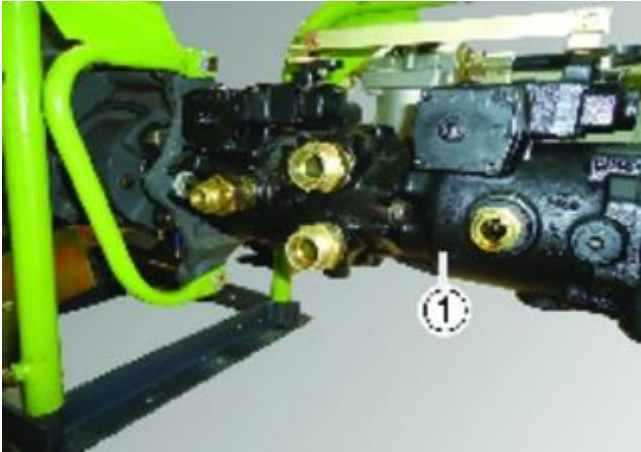
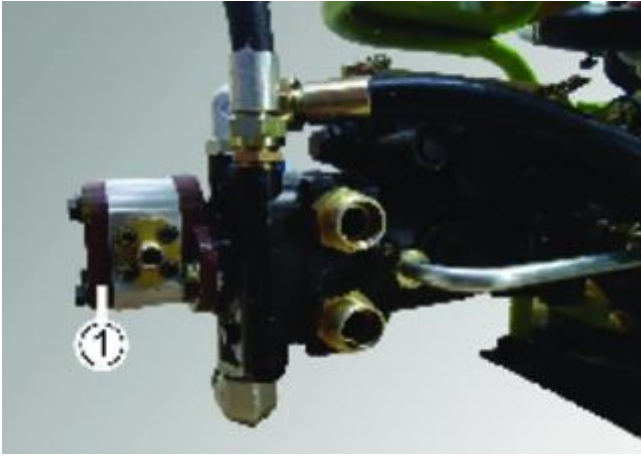
- ▶ Remove screw fittings (2) and separate the hydraulic hoses (1).



- ▶ Remove screw fittings (2).
- ▶ Separate hydraulic hose (1).



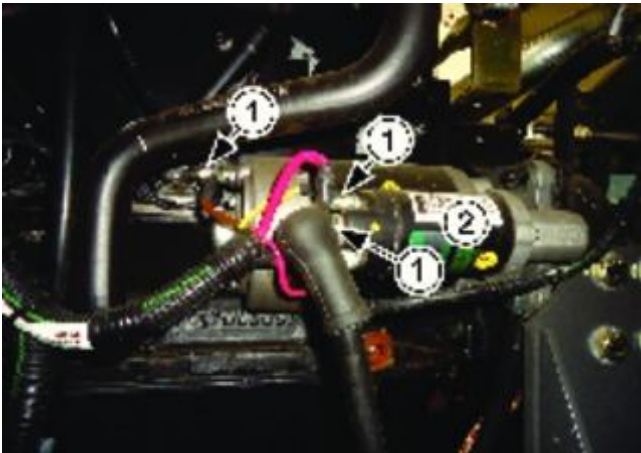
- ▶ Remove screw fittings (1).
- ▶ Separate hydraulic hoses (2).



- ▶ Make hydraulic pump (1) free from hoses.

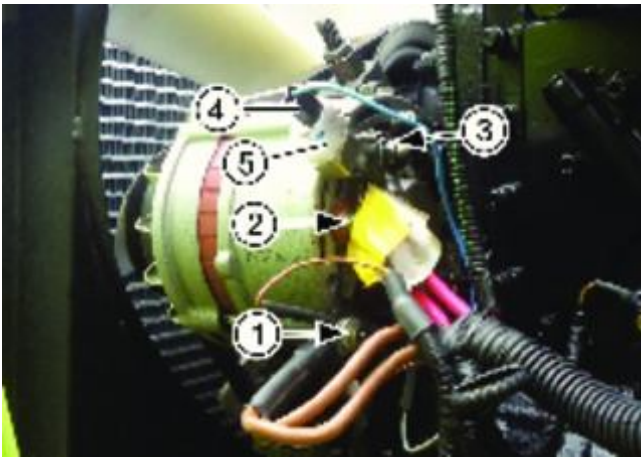
Electric system

Starter relay



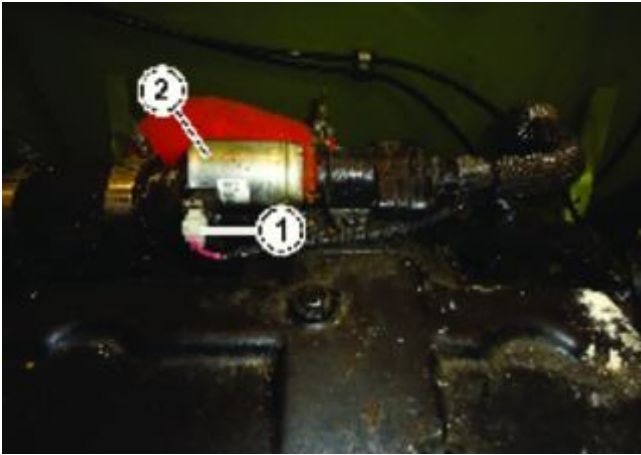
- ▶ Unscrew nuts (1) from starter relay (2).
- ▶ Remove all connections from starter relay (2).

Alternator



- ▶ Unscrew nuts (1) (2) and (3) and remove the cables.
- ▶ Unplug the starter cable (4) from connection (5).

EGR valve



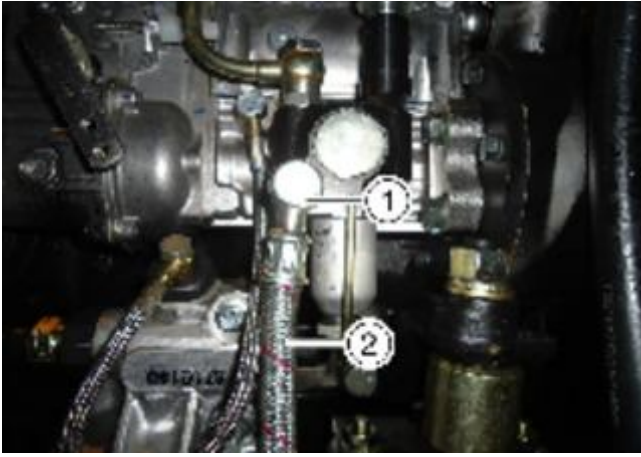
- ▶ Unplug the cable (1) from EGR valve (2).
- ▶ *Engine is free from electric connections.*

Accelerator rod



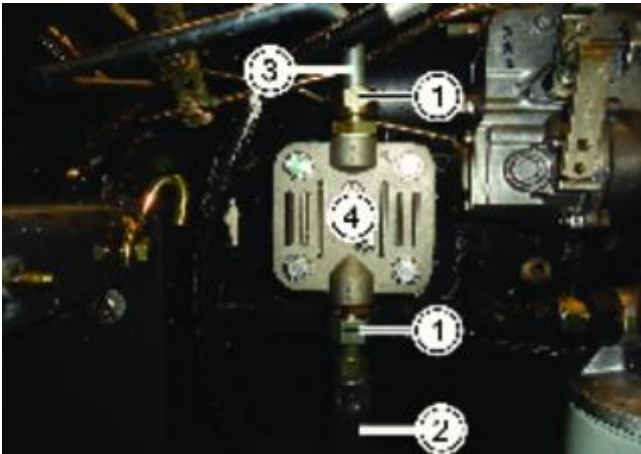
- ▶ Remove the split pin (1).
- ▶ Unscrew nut (2) and loose the accelerator rod (4).
- ▶ Remove the bolt (3) and separate the accelerator cable (4).

Diesel pipe



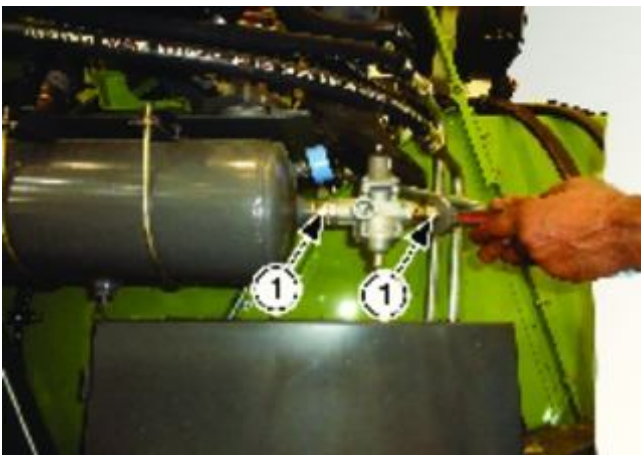
- ▶ Unscrew the diesel pipe (1) and remove the hose (2).
- ▶ Collect the fuel and dispose it properly.
- ▶ Seal the opening tightly.

Air pump



- ▶ Remove screw fittings (1).
- ▶ Remove the hose (2) and tube (3) from air pump (4).

Air reservoir



- ▶ Use wrench and remove screw fittings (1).



- ▶ Remove valve (1).



- ▶ Use wrench to remove the bolts (1) fixed to engine frame (3).
- ▶ Remove air reservoir (2).

Water separator



- ▶ Use spanner to remove hexagonal head screws (1).
- ▶ Remove the hoses (2).
- ▶ Collect the escaping water / fuel and dispose it properly.
- ▶ Close the openings.

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