



Hydraulic shuttle assembly

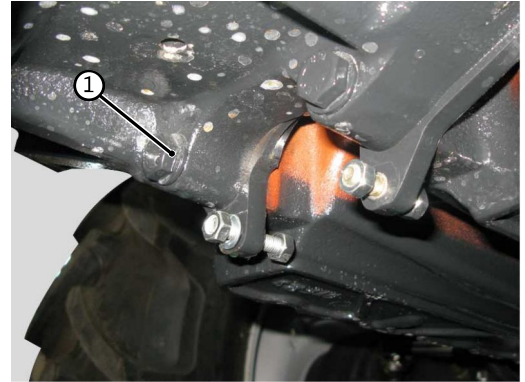
Removal



DANGER

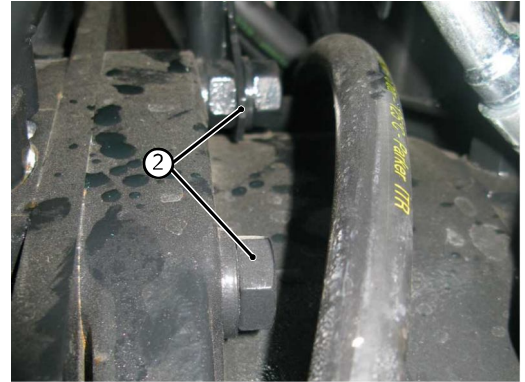
1. Disconnect the lead from the battery negative terminal (-) and apply the parking brake.

Remove the two screws (1) from the underside of the engine.



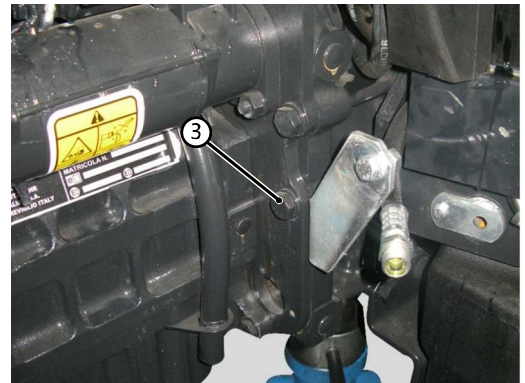
- 2.

Remove the two screws (2) at the top of the engine.



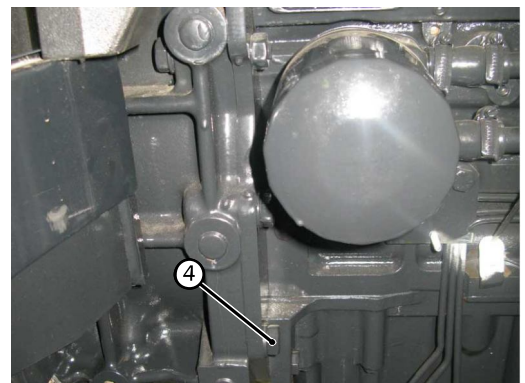
- 3.

Remove the three screws (3) on the left-hand side of the engine.



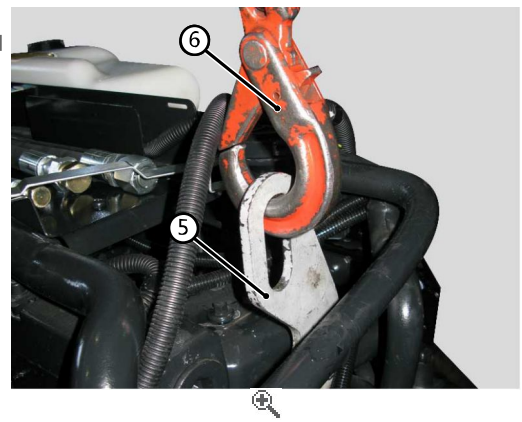
- 4.

Remove the four screws (4) on the right-hand side of the engine.



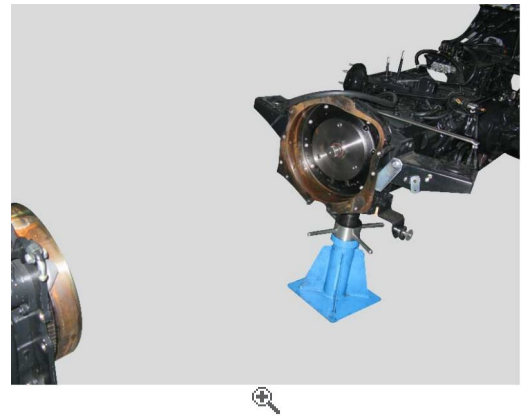
5.

Fit the lifting bracket (5) to the engine and sling the bracket to an overhead crane (6).



6.

Proceed with the separation of the engine from the transmission.



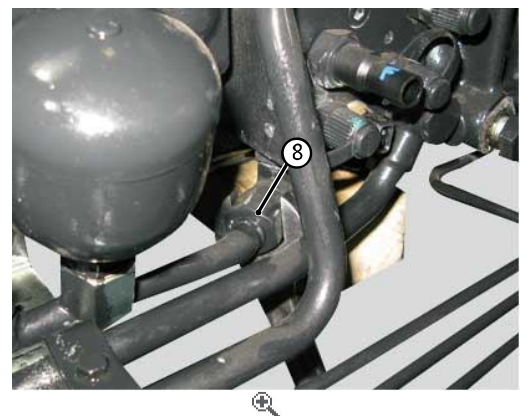
7.

Disconnect the five wiring connectors (7).



8.

Remove union (8).



9.

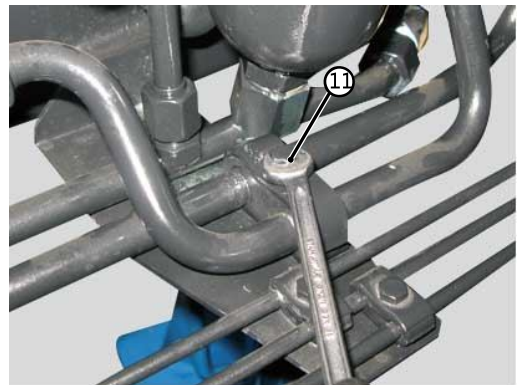
Remove union (9).



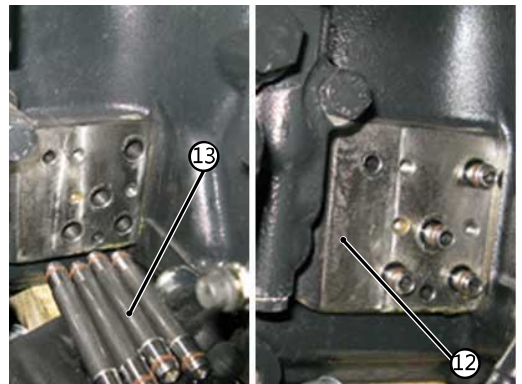
10.
Remove union (10).



11.
Remove the bracket (11).



12.
Remove the valve assembly (12) and remove the telescopic tubes (13).

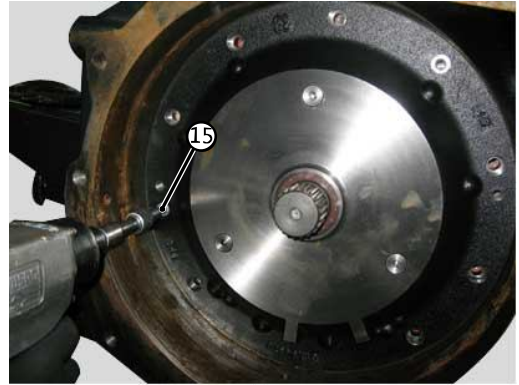


13.
Remove the two screws (14).



14.

Remove the nine Allen screws (15).



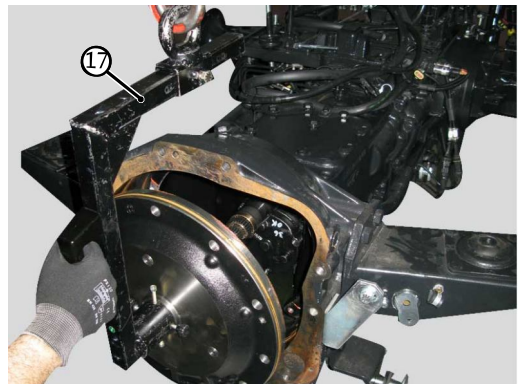
15.

Using 2 pullers (16), remove the complete assembly.



16.

Using the special tool (17), remove the shuttle assembly.



17.

Refitting

1. Refitting is the reverse of removal.

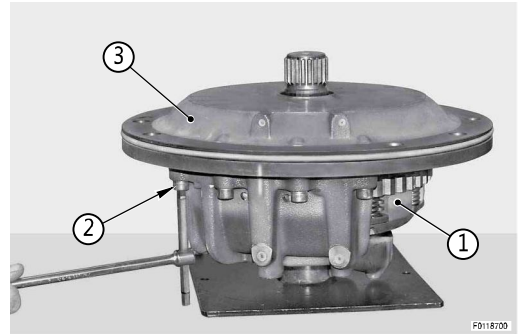


Disassembly of shuttle assembly

Disassembly

Position shuttle assembly (1) on a suitable stand and remove the seven screws (2).

- o Mark flange (3) and the support to facilitate assembly operations.



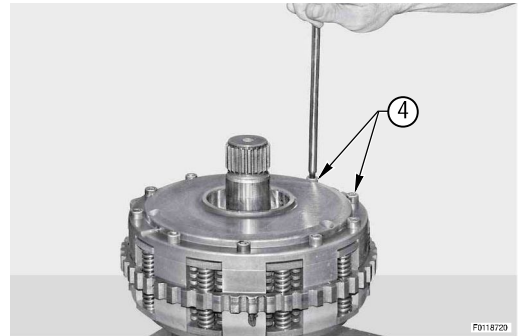
1.

Remove flange assembly (3).



2.

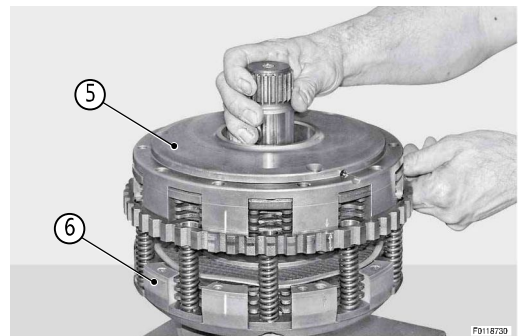
Remove screws (4) (no. 10).



3.

Remove clutch assembly (5) of the forward gear.

- o Mark clutch assemblies (5) and (6) to facilitate reassembly.



4.

Recover springs (7) and pins (8) from clutch assembly (6) of the reverse gear.

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