Gearbox and shuttle assy. - complete unit

Previous operations:

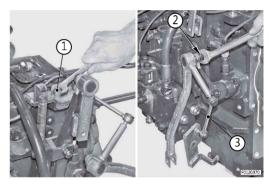
- <u>See para. Changing the coolant and flushing the circuit C0.01.02</u>
 <u>See para. Rear wheels S0.02.01</u>
- 3. See para. Cab access steps G0.03.03
- 4. See para. Fuel tank C0.03.01
- 5. See para.
- 6. See para. Exhaust pipe Tractor with cab C0.06.02
- 7. See para. Silencer C0.06.01
- 8. <u>See para. Cab G0.03.01</u> 9. <u>See para. 4WD shaft F0.04.01</u>
- 10. See para. Changing the transmission oil D0.00.01
- 11. See para. Clutch housing assembly D0.02.01
- 12. See para.

Removal

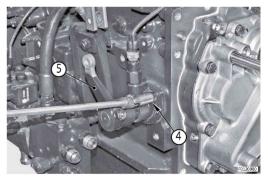
1.

Remove screw (1) and nut (2) and remove lever (3).

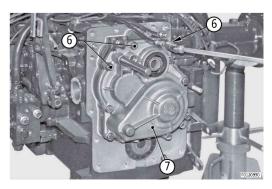
Remove screws (4) and remove gear control lever (5).



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2.

Remove screws (6) (n°10) and remove gearbox assembly (7).

Installation

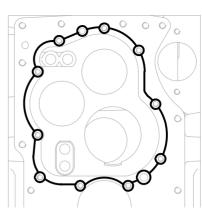
Refitting is the reverse of removal. Use caution in relation to the following procedures:

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Procedure 3

• Mating face: Silastic 738

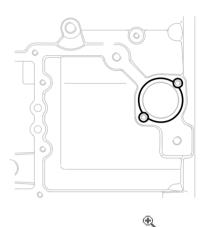


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Procedure 2

• Mating faces: Silastic 738



D0027980

Fill the transmission with the required quantity of oil. Bleed the air from the clutch control circuit. Bleed the air from the brake circuit.

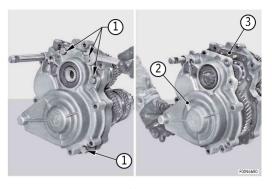
T.H12.21.D0.09.00.00.01 - v1

Disassembly of gearbox and shuttle assy. - complete unit

Disassembly

Remove the four screws (1) and remove cover (2).

• Renew the paper gasket (3) on reassembly.

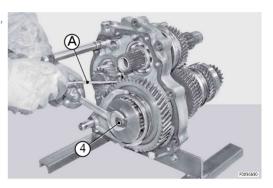




1.

2.

Engage 1st gear, and using a bar "A" made of soft material as a restraint, remove screw (4).



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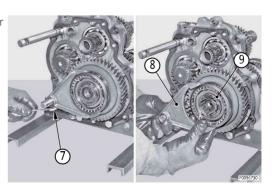


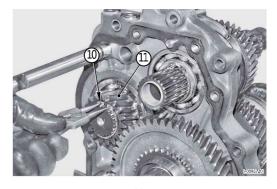
Remove screw (7) and remove 1st speed selector rod (8) and synchronizer assy (9).

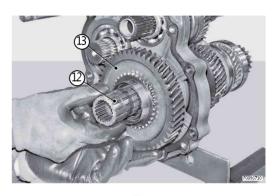
• Check the condition of O-ring (6) and renew it if necessary.

• Renew the screw (7) on reassembly.

Remove cover (5) and recover O-ring (6).







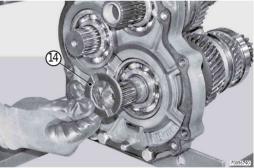
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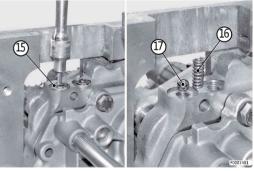
6.

7.

Remove thrust washer (14).

• Note which way round the thrust washer (14) is installed.





8.

Remove screw (18) and remove reverse shuttle control rod (19) and relative fork (20).



Remove plug (15) and recover spring (16) and ball (17). • Renew the copper washers on reassembly.

Remove sleeve (12) and 1st speed driven gear (13).

5.





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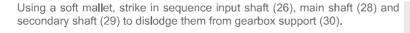
10.

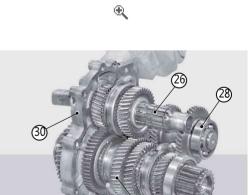
9.

Open circlip (25) and simultaneously strike input shaft (26) with a soft mallet to separate bearing (27) from circlip (25).

(23) and 4th and 5th speed selector fork (24). • Fit new screws on reassembly.

11.





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12.

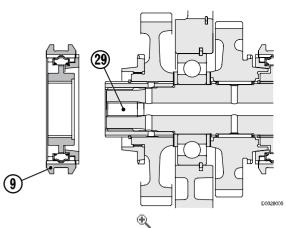
Assembly

To assemble, follow the disassembly steps in reverse order and use caution in relation to the following procedures:

Procedure 4

Take care to install synchronizer (9) the right way round with respect to . secondary shaft (29).

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Procedures 4-10

• Screws: 25 Nm (18.4 lb.ft.) Bolt: Loctite 270

Procedure 2

• Bolt: 73±1 Nm (53.8±0.74 lb.ft.) Bolt: Loctite 270



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T.H12.26.D0.09.00.00.01 - v2

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Range gearbox and differential assembly - complete assembly

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Removal

After having performed the pre-disassembly operations, the assembly will be already disconnected from the tractor.

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Refitting

Refitting is the reverse of removal.

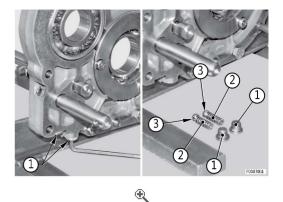
T.H12.21.D0.09.01.00.01 - v2

Gearbox support and gear selector rods

Disassembly

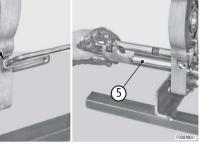
Remove plugs (1) and recover springs (2) and balls (3).

• Renew the copper washers on reassembly.

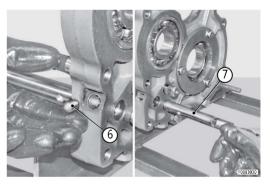


1.

Remove plug (4) and withdraw 1st speed selector rod (5).



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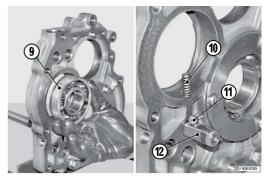


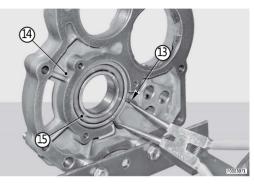


Recover interlock pin (6) and withdraw 2nd/3rd speed selector rod (7).

3.

Recover interlock pin (8).





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6.

5.

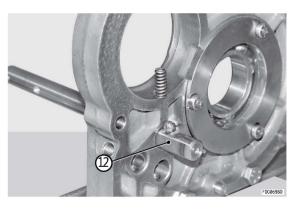
Assembly

To assemble, follow the disassembly steps in reverse order and use caution in relation to the following procedures:

Procedure 5

• Take care to install 4th/5th speed selector rod (12) the right way round.

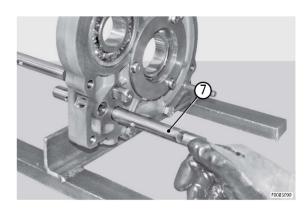
Open circlip (13) and remove bearing (15) from gearbox support (14).



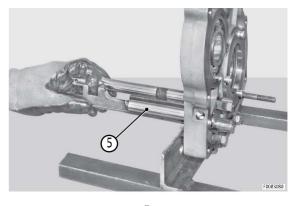
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Procedure 3

• Take care to install 2nd/3rd speed selector rod (7) the right way round.



- Take care to install 1st speed selector rod (5) the right way round.



T.H12.21.D0.10.00.00.01 - v1

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