

Workshop Service Manual

n° 3378553M4

7400

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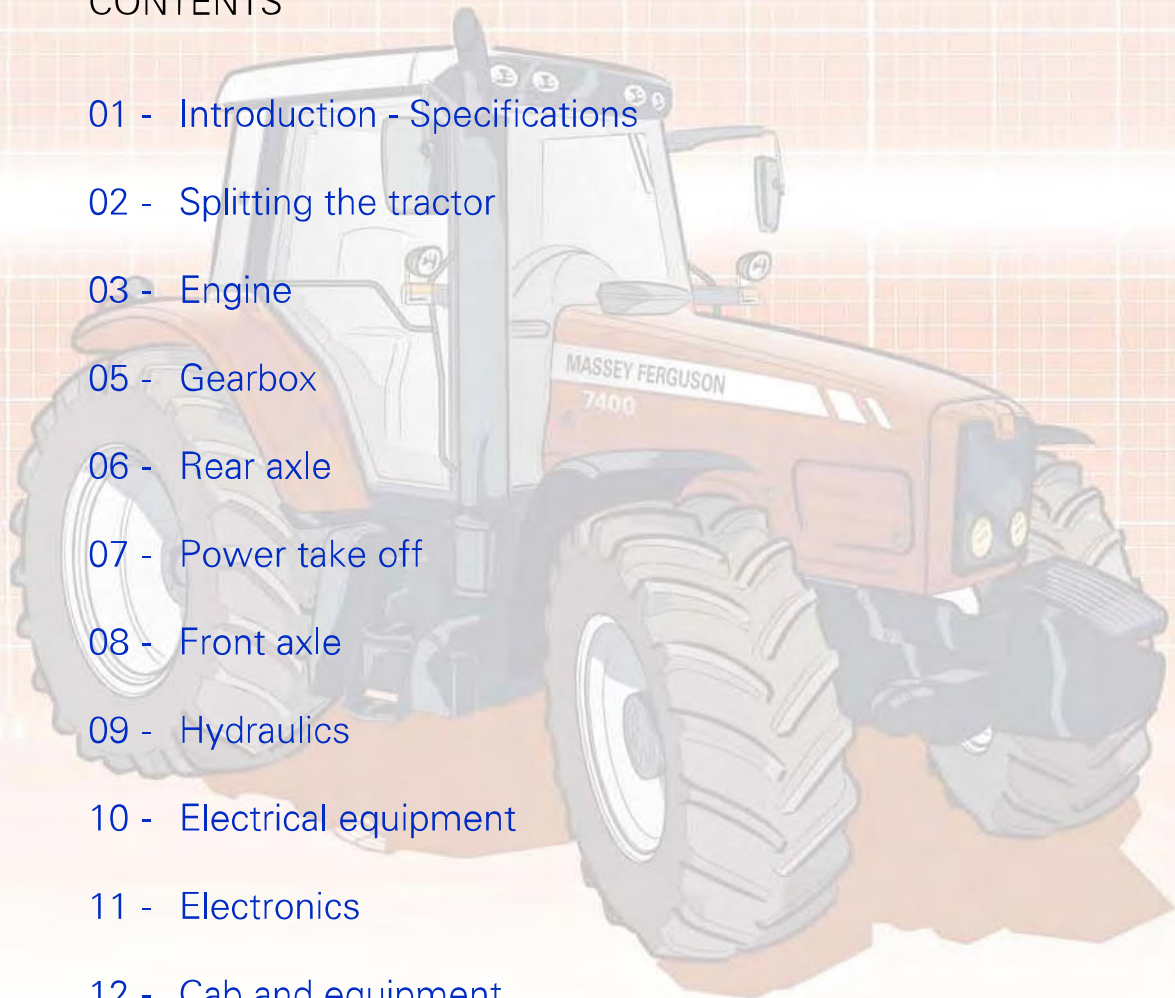
08 - Front axle

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A . Disassembling the Dyna VT unit

Removing the cab

1. Disconnect all electrical harnesses from the cab front and the earth cable. (Fig. 1)



2. Disconnect the fuel gauge. (Fig. 2)

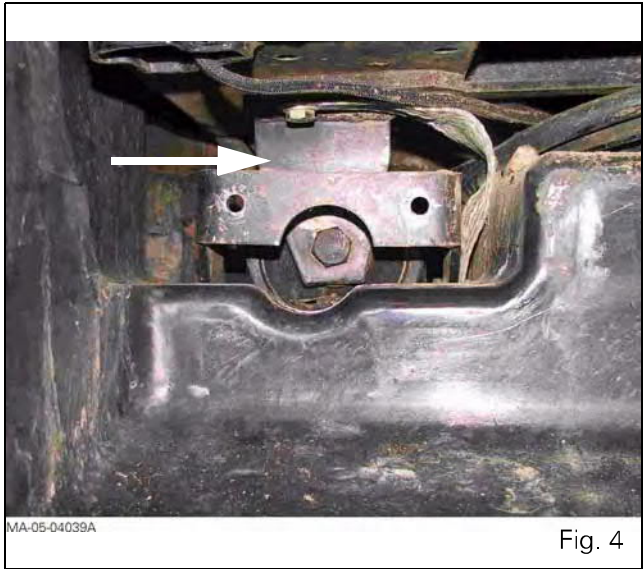


3. Remove the footstep. The nut is difficult to reach because it is located at the back of the footstep. (Fig. 3)

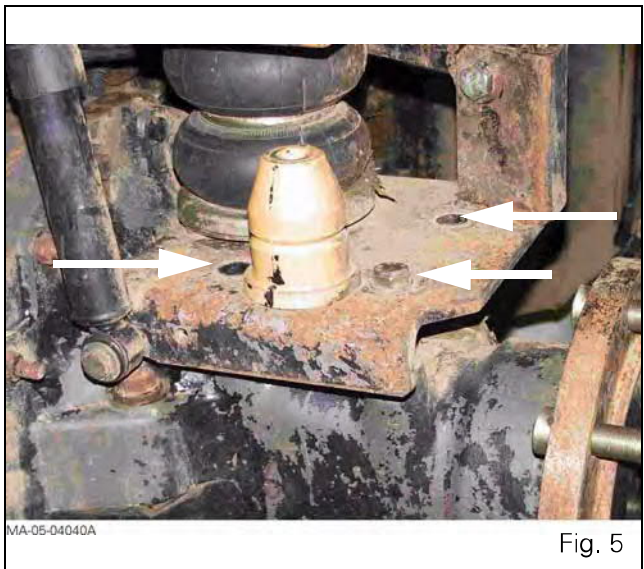


Replacing the DYNA VT unit

4. Remove front cab supports. (Fig. 4)



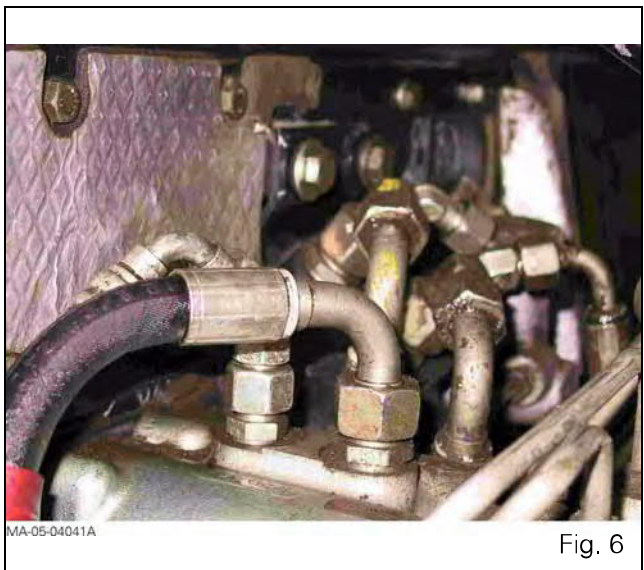
5. Remove the 3 nuts of the rear cab supports on the transmission trumpet housings. The pneumatic springs and suspension system remain attached to the cab. (Fig. 5)



6. Disconnect the hydraulic pipes of the steering system and braking system. (Fig. 6)



DANGER : Before disconnecting the pipes, it is necessary to release the pressure in the brake accumulator by pumping on the pedals.



Replacing the DYNA VT unit

7. Remove the unions after emptying, taking the precautions necessary to prevent any dirty particles from entering the air conditioning circuit (Fig. 7)



ADVICE : *It is recommended to raise the cab slightly before splitting it.*

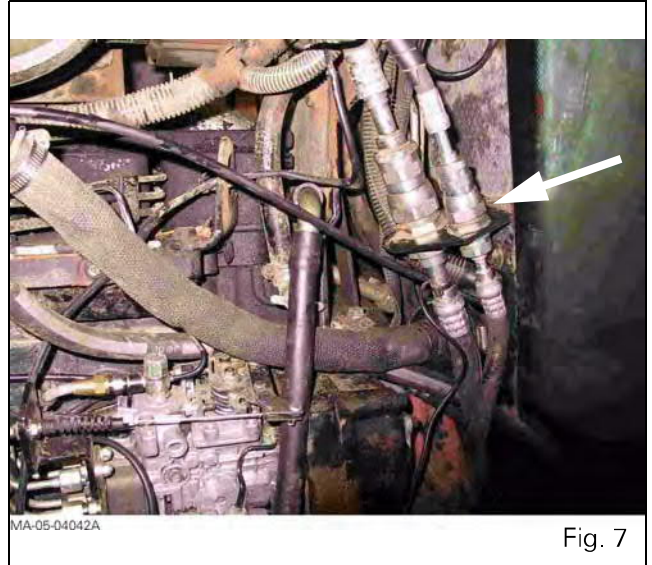


Fig. 7

8. Pinch the heating pipes closed to avoid draining the circuit. (Fig. 8)



Fig. 8

9. Attach the cab to a suitable hoisting system and lift it off. (Fig. 9)



CAUTION : *Take care not to damage the roof cap.*

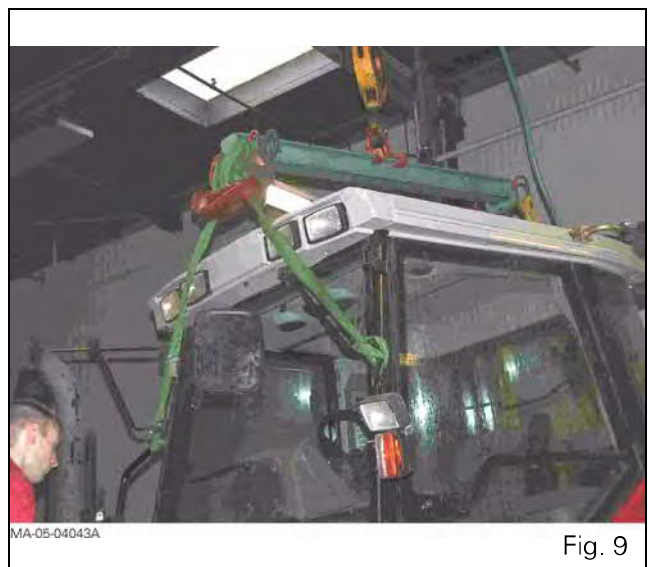


Fig. 9

Replacing the DYNA VT unit

10. Disconnect the following cables :

- handbrake cable (Fig. 10)



CAUTION : Take care not to loose the small clips.

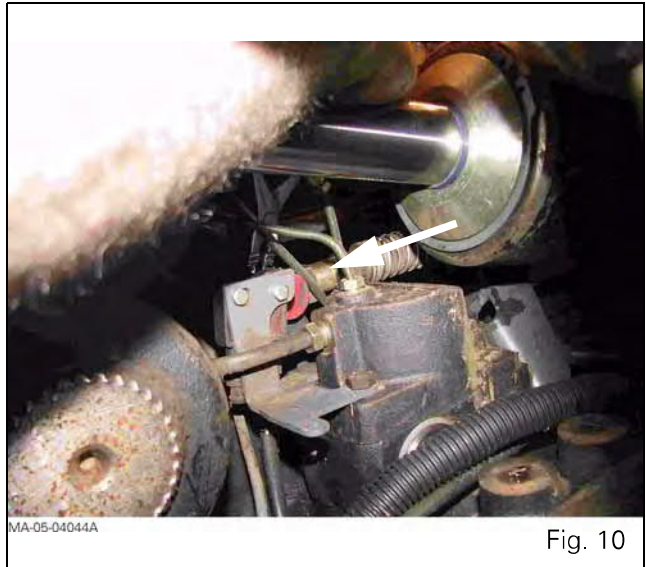


Fig. 10

- control cable of mechanical spool valves (Fig. 11).

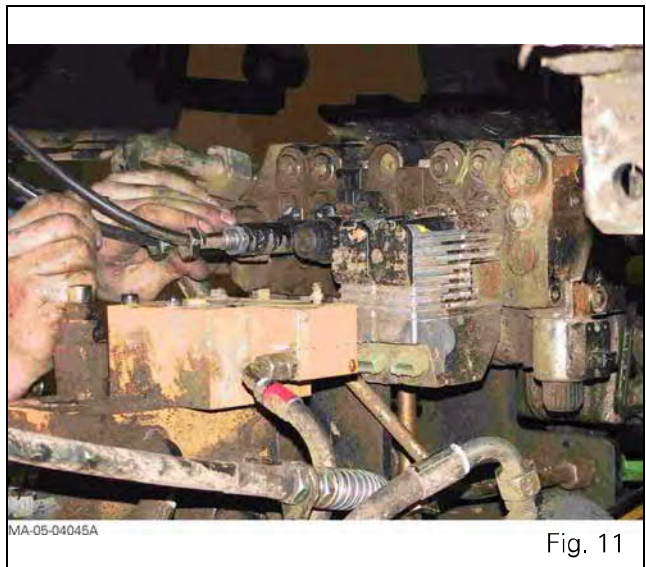


Fig. 11

11. Disconnect the following pipes :

- Cab heating pipes
- Brake and clutch pipes

12. Remove the housing hose pipes attachment block, leaving one nut in place to keep the block fixed tightly to the hose pipes. (Fig. 12)



CAUTION : Do not remove the hose pipes from the block, because the assembly must be handled complete.



Fig. 12

Replacing the DYNA VT unit

13. Hoist and remove the cab. (Fig. 13)



Fig. 13

14. Remove the hydraulic hose pipes from the lift cylinders. (Fig. 14)

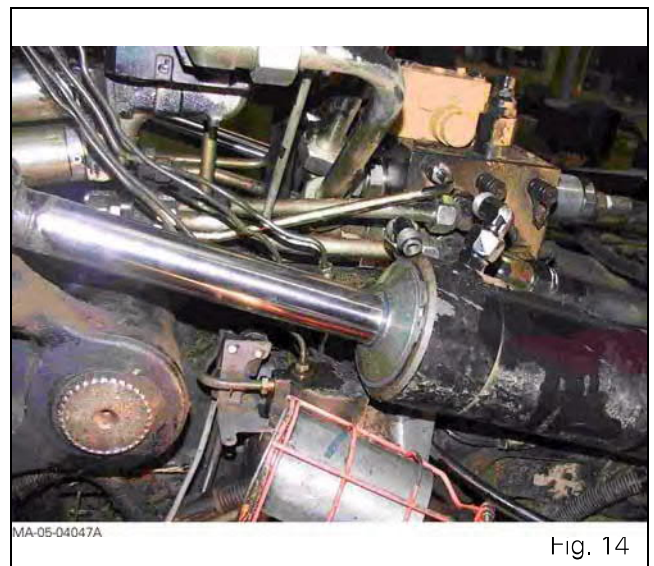


Fig. 14

15. Remove the union from the trailer braking valve. (Fig. 15)



Fig. 15

Replacing the DYNA VT unit

16. Remove the bleeding system from the spool valve block. (Fig. 16)

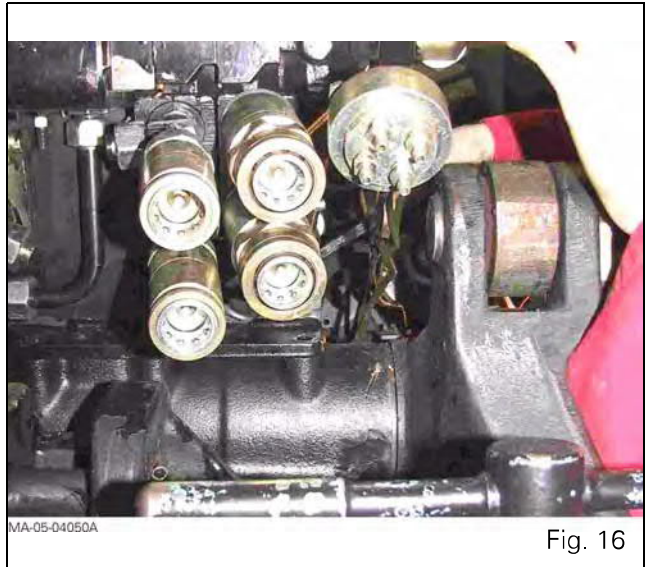


Fig. 16

17. Take out the screws from the spool valve support. (Fig. 17).



CAUTION : *one of the screws is difficult to reach. It cannot be completely removed.*

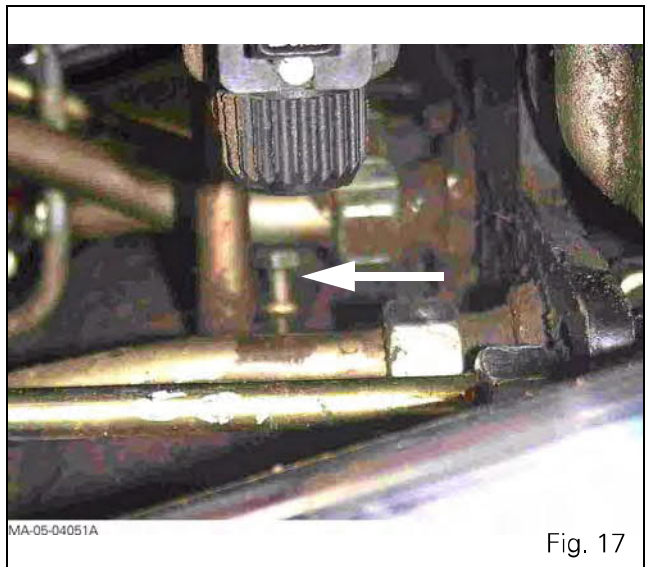


Fig. 17

18. Lift the spool valve block with a suitable hoisting system. (approximate weight = 150 kg). (Fig. 18)



CAUTION : *Take care not to move the hydraulic hose pipes inside the block.*



Fig. 18

Replacing the DYNA VT unit

19. Remove the spool valve block and place it on the hydraulic tank. (Fig. 19)



NOTE: This removal method avoids disconnecting the hose pipes, thus limiting the risk of leaks.



Fig. 19

20. The top of the cover must be cleaned before disassembled (Fig. 20).



ADVICE: In order to simplify disassembly and decrease the weight to be lifted, the cylinders can be removed.

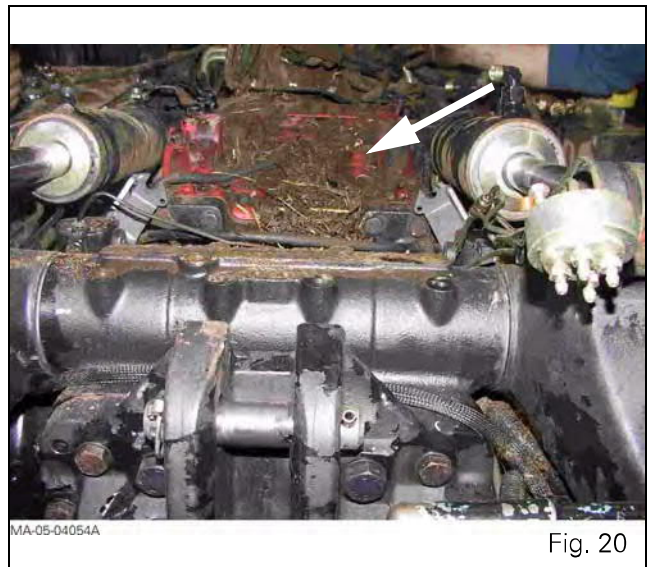


Fig. 20

21. Remove the cover. (Fig. 21)

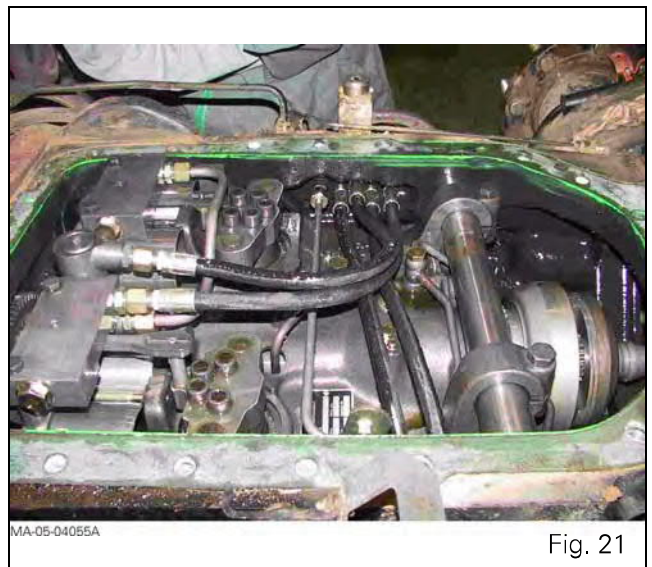


Fig. 21

Replacing the DYNA VT unit

Disassembling the hydraulic unit



CAUTION : Take care to precisely mark the different hydraulic hose pipes and electrical connectors before disassembling the hydraulic unit.

22. Measure the distance between the housing and the unit before starting to disassemble. It must be the same as shown in Fig. 22.

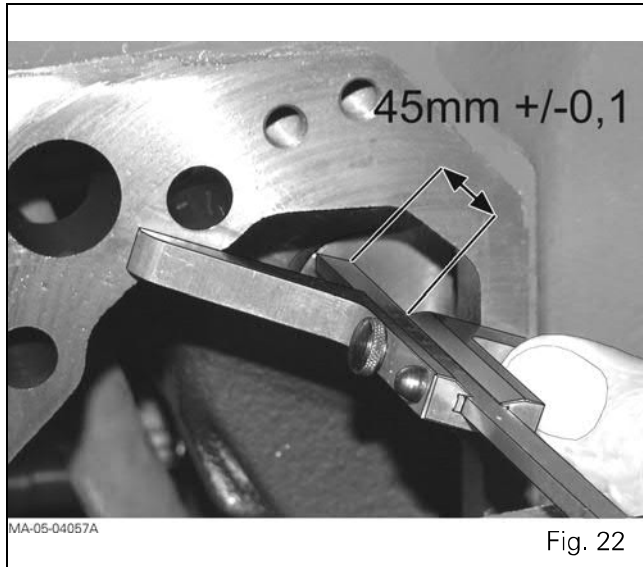


Fig. 22

23. Disassemble the retaining ring on the hydraulic unit main shaft (Fig. 23) and push the drive shaft inwards.

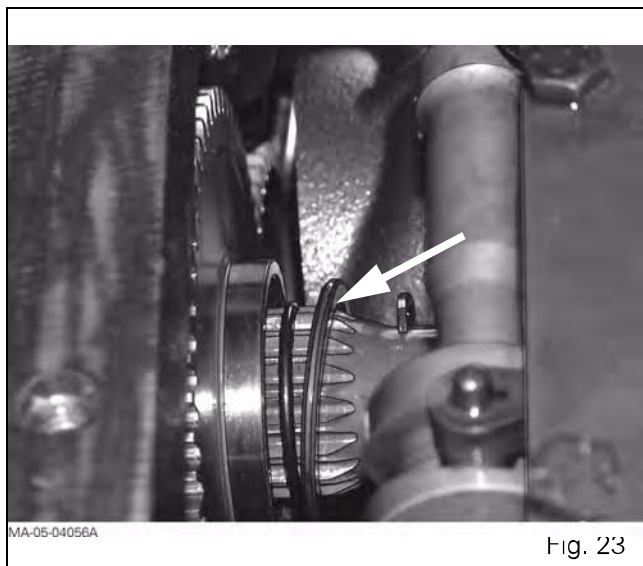


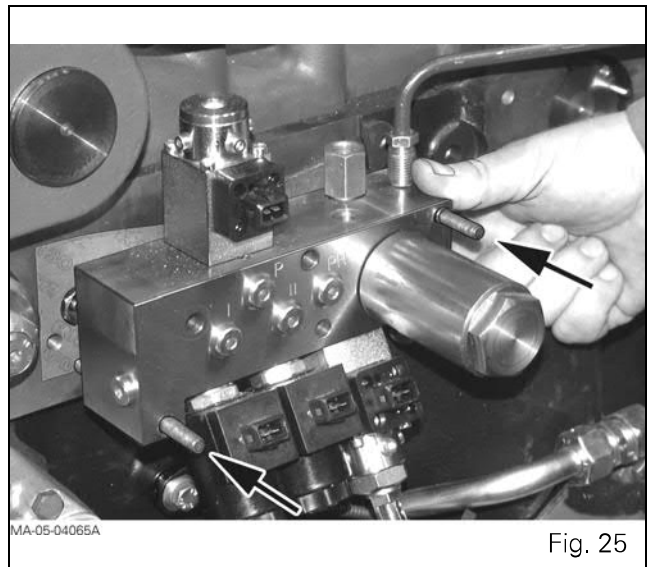
Fig. 23

Replacing the DYNA VT unit

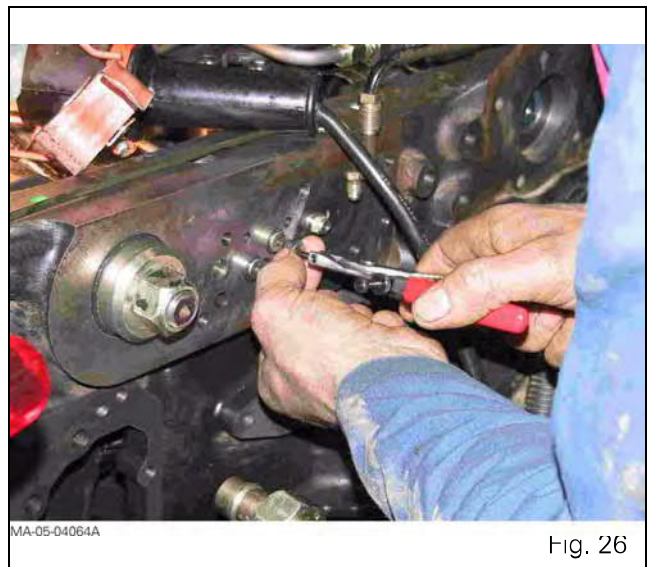
24. Disconnect the electrical connectors and mechanical link, and disassemble the control unit. (Fig. 24)



25. Remove the control spool valve block. (Fig. 25)

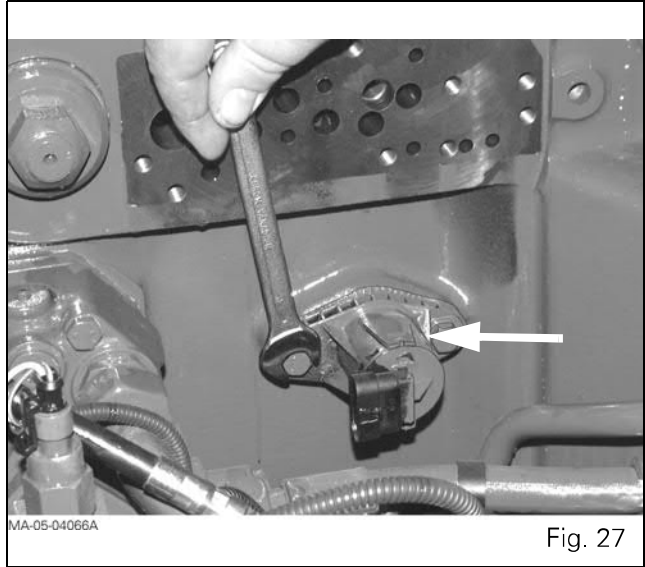


26. Disassemble the retaining rings and push the hydraulic pipes inwards (Fig. 26).

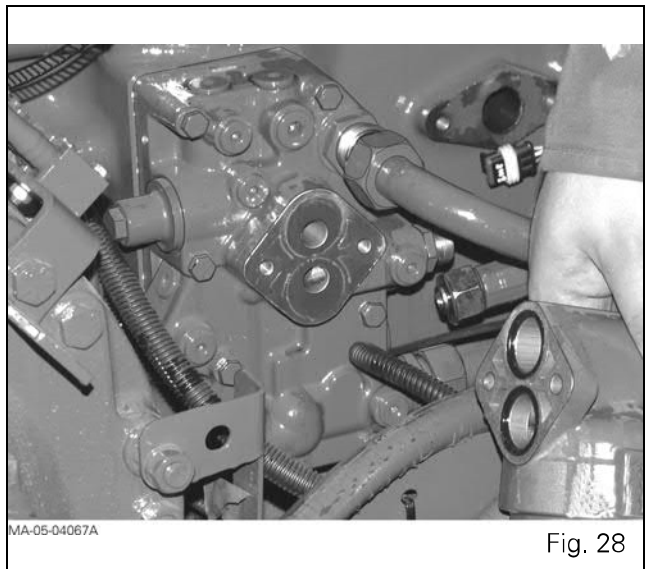


Replacing the DYNA VT unit

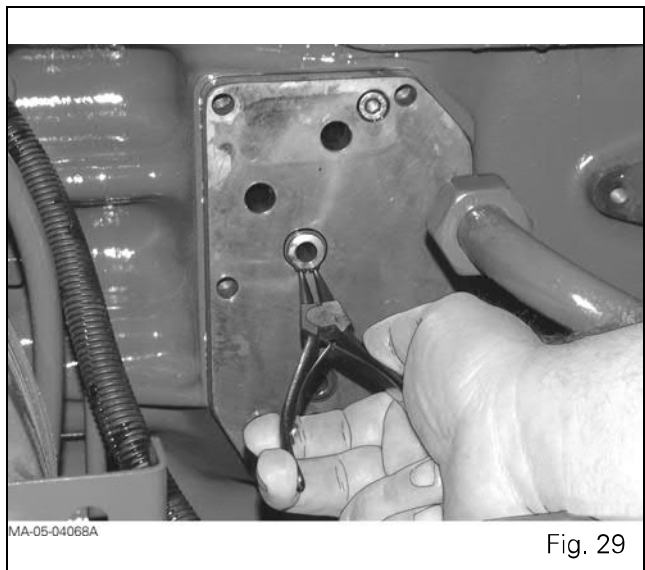
27. Disconnect the connector and remove the sensor. (Fig. 27)



28. Disassemble the hydraulic unions from the valve block housing, disconnect the electrical connectors, remove the pressure filter, then disassemble the valve block housing. (Fig. 28)



29. Remove the two retaining rings. (Fig. 29)

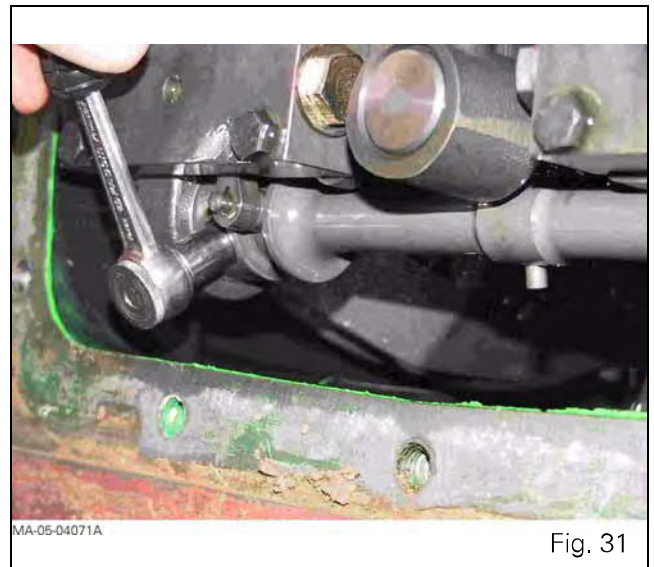


Replacing the DYNA VT unit

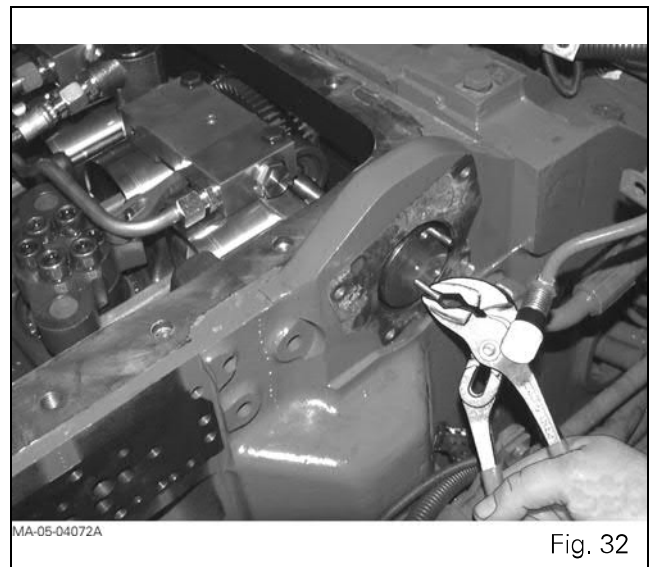
30. Remove the inside hose pipe, then remove the plate. (Fig. 30)



31. Take out the screw holding the cam channel shaft. (Fig. 31)

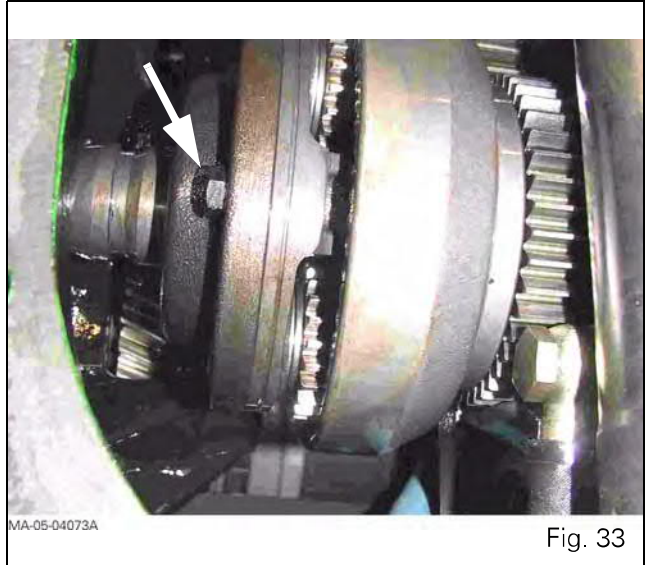


32. Remove the cam channel shaft. (Fig. 32)

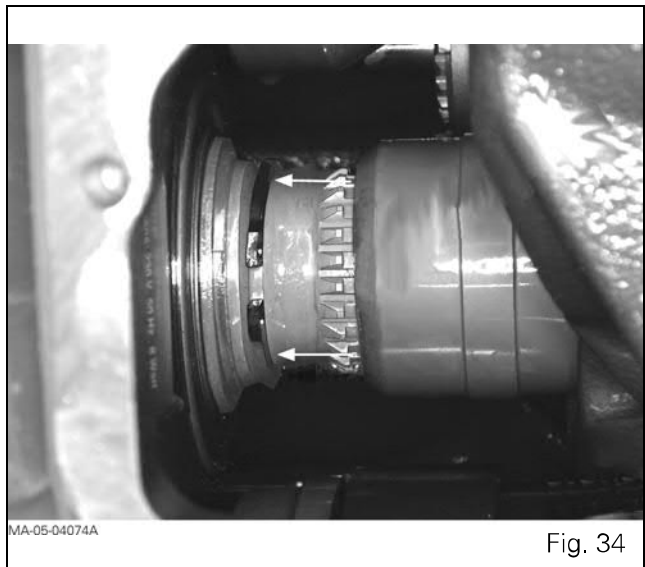


Replacing the DYNA VT unit

33. Take out the 3 screws attaching the sun gears and push the shaft backwards. (Fig. 33)



34. Slide and stretch the retaining ring of the drive pinion and lock it on the shoulder located at the back (see arrows), then drive the coupling sleeve backwards. (Fig. 34).

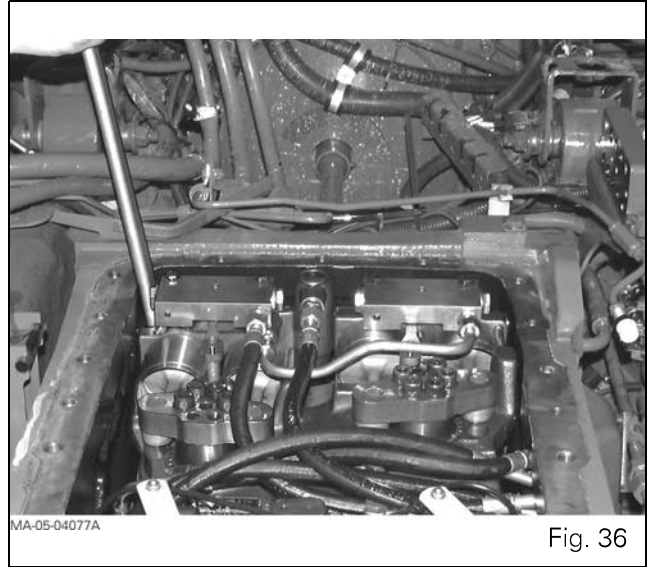


35. Use a lever to push the hydrostatic motor inwards. (Fig. 35)

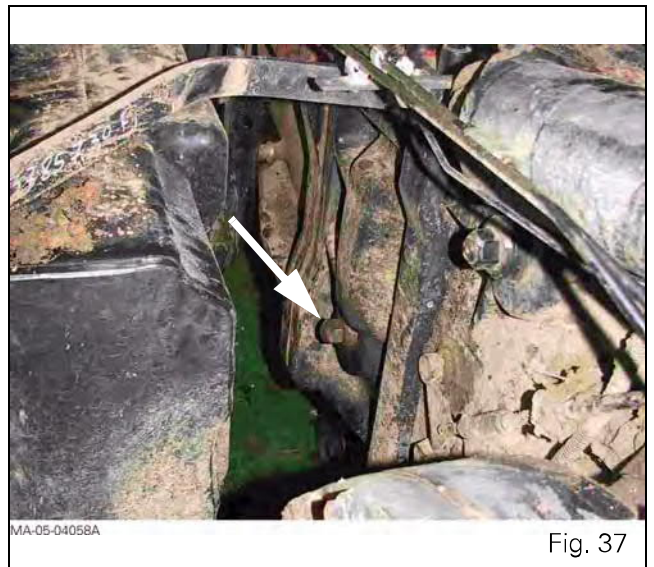


Replacing the DYNA VT unit

- 36.** Use a lever to push the hydrostatic pump inwards.
(Fig. 36)



- 37.** Unscrew the tank supports and shim it to reach the nut of the unit support lower shaft. (Fig. 37)



- 38.** Remove the lower shaft nut. (Fig. 38)



Replacing the DYNA VT unit

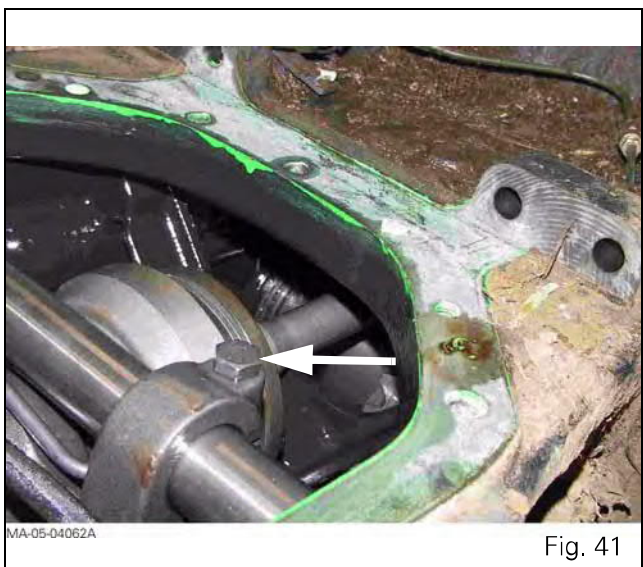
39. Remove the radar from the unit housing to reach the lower shaft (Fig. 39)



40. Fit a container under the transmission unit. Remove the two drain plugs under the housing, then the two locking screws on the lower shaft. (Fig. 40)



41. Remove the two upper shaft attachment screws. (Fig. 41).

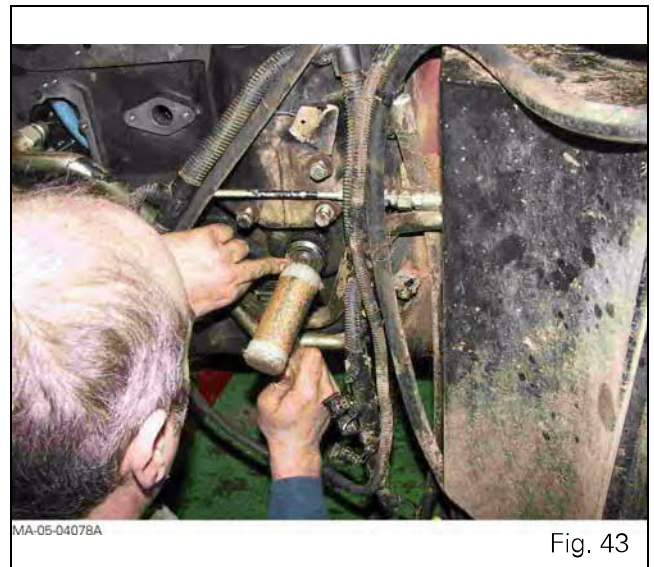


Replacing the DYNA VT unit

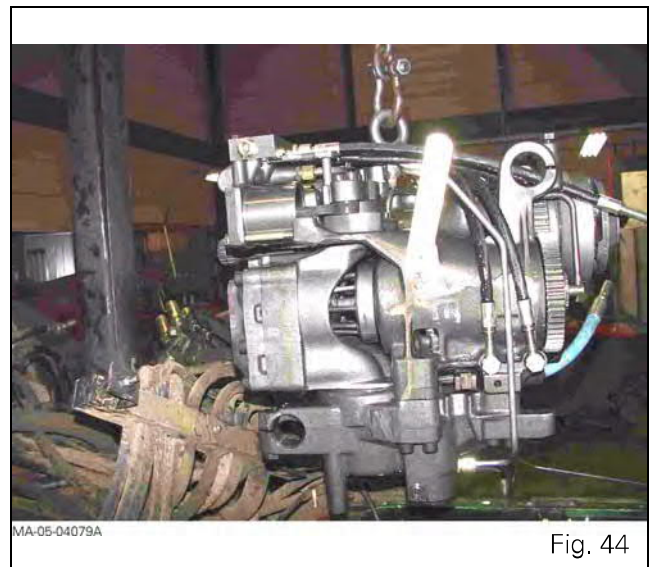
42. Hang the hydraulic unit from a suitable hoisting system, using an eyebolt with an M12 thread end. (Fig. 42)



43. Using a hammer or a slide hammer puller, remove the suspension shafts from the hydraulic unit. (Fig. 43)



44. Use a hoist to lift the hydraulic unit. (Fig. 44)



Replacing the DYNA VT unit

B . Reassembling the Dyna VT unit



Before reassembly, all components, mating faces and grooves must be clean. Any rust, mud or water must be removed.

45. Set the I-II range selector (see arrow) to Neutral (middle position). (Fig. 45)

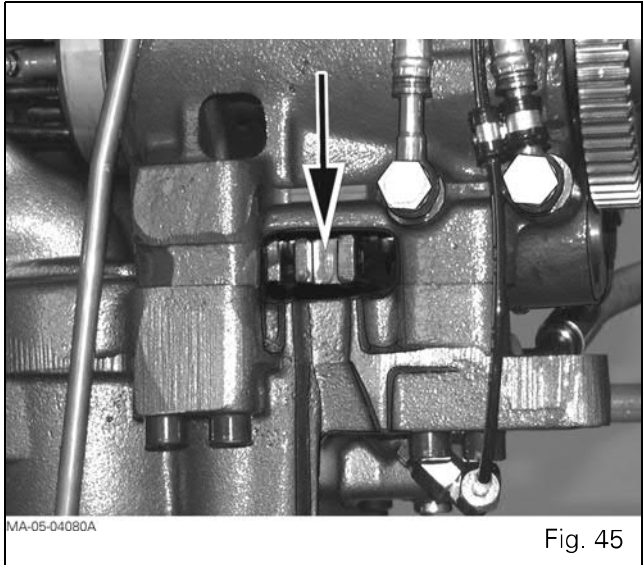


Fig. 45

46. Set the I-II range selector pointer to Neutral (middle position). (Fig. 46)

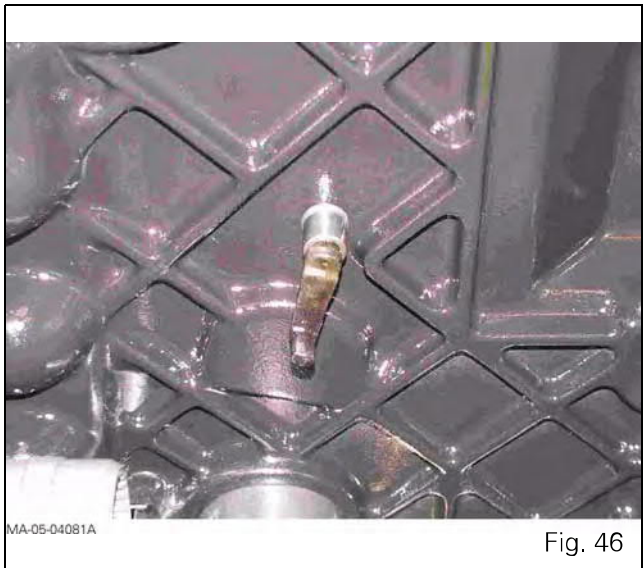


Fig. 46

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