Workshop Service Manual

7400 series tractors

June 2010
No. 3378553M7
7400, Dyna-Step, Dyna-VT - EAME, NA
English

7400 series tractors

1 Disassembling the Dyna-VT unit

Removing the cab

1. Disconnect all electrical harnesses from the cab front panel and the earth cable.

Fig. 1. I016165

2. Disconnect the fuel gauge.

Fig. 2. I016166

3. Remove the step. The nut is difficult to reach because it is located at the back of the step.

Fig. 3. I016167

4. Remove the front cab supports.

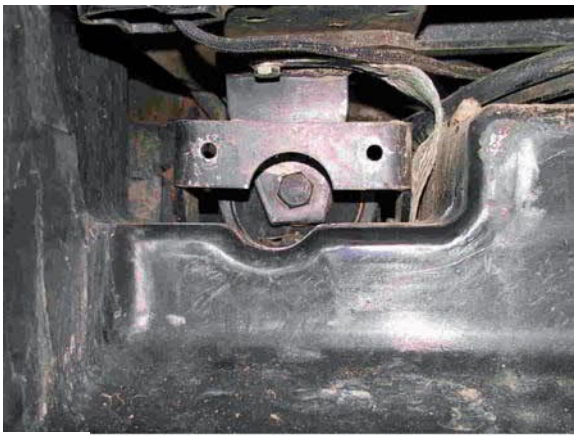

Fig. 4. I016168

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

Fig. 5. I016169

6. ***DANGER:***
Before disconnecting the pipes, it is necessary to release the pressure in the brake accumulator by pumping on the pedals.
Disconnect the hydraulic pipes from the steering system and braking system.

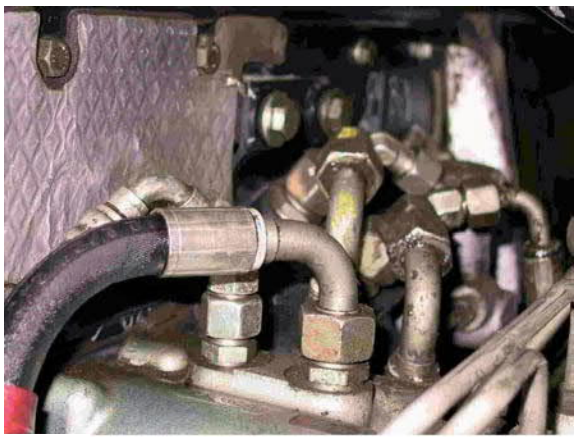

Fig. 6. I016170

7. Remove the unions after emptying, taking all necessary precautions to prevent any dirty particles from entering the air conditioning system
NOTE: *It is recommended to raise the cab slightly before splitting it.*

Fig. 7. I016172

8. Pinch the heating pipes closed to avoid draining the system.

Fig. 8. I016165

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

Attach the cab to a suitable lifting system and raise it.

Fig. 9. I016173

10. ***CAUTION:***
Take care not to lose the small fastening clips.

Disconnect the following cables:
- hand brake cable
- mechanical spool valves control cable

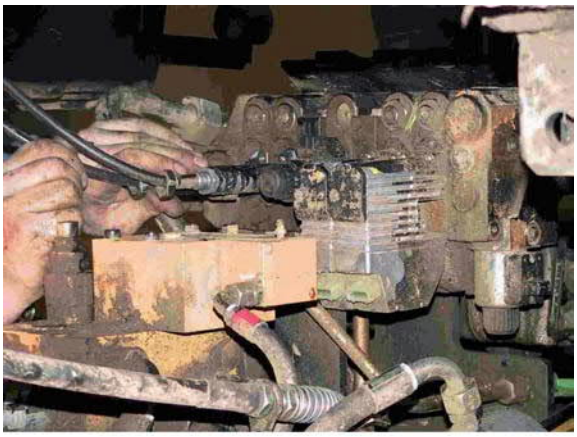

Fig. 10. I016174

11. Disconnect the following pipes:
    - cab heating pipes
    - brake and clutch pipes
12. **CAUTION:**
    Do not remove the hoses from the bar, as the assembly must be handled complete.

    Remove the hose attachment bar from the housing, leaving one nut in place to keep the bar secured to the hoses.

Fig. 11. I016175

13. Raise and move the cab.

Fig. 12. I016176

14. Remove the hydraulic hoses from the lift rams.

Fig. 13. I016177

15. Remove the trailer brake valve union.

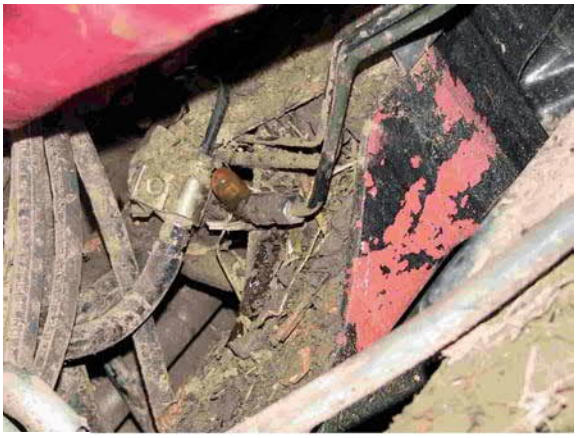

Fig. 14. I016178

16. Remove the spool valve block bleed system.

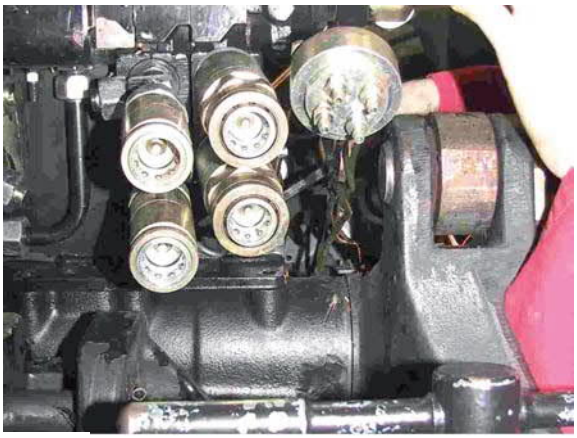

Fig. 15. I016179

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

Remove the screws from the spool valve support.

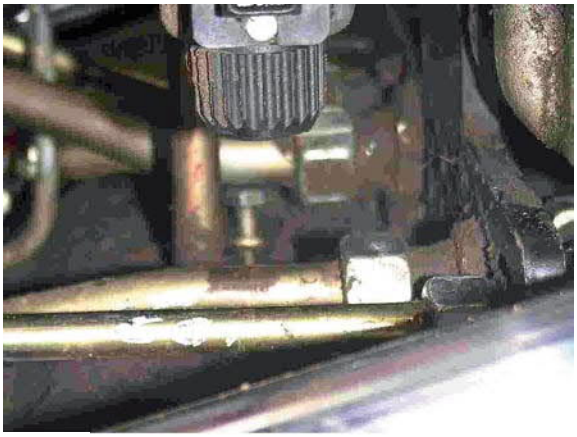

Fig. 16. I016180

18. ***CAUTION:***
Take care not to move the hydraulic hoses inside the bar.
Use a suitable lift system to lift the spool valve block (approximate weight = 150 kg (331 lb)).

Fig. 17. I016181

19. Fit the spool valve block onto the hydraulic tank.
NOTE: *This method of removal avoids disconnecting the hoses, thus limiting the risk of leaks.*

Fig. 18. I016182

20. The top of the cover plate must be cleaned before it is removed.
NOTE: *To simplify removal and reduce the weight to be lifted, the rams can be removed.*

Fig. 19. I016184

21. Remove the cover plate.

Fig. 20. I016190

Removing the hydraulic unit

CAUTION:

Take care to precisely mark the different hydraulic hoses and electrical connectors before removing the hydraulic unit.

1. Measure the distance between the housing and the unit before starting removal. It should be 45 mm ± 0.1 mm.

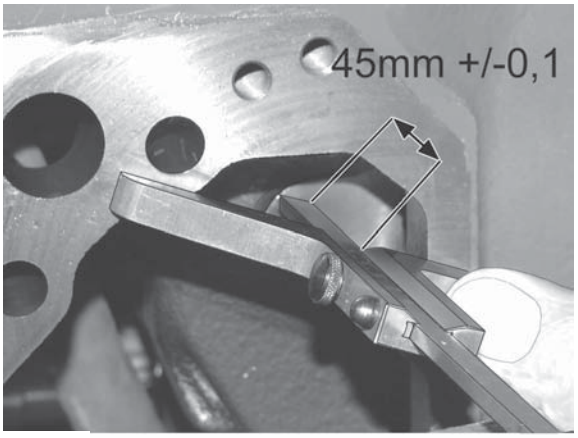

Fig. 21. I016192

2. Remove the retaining ring on the input shaft of the hydraulic unit and push the drive shaft inwards.

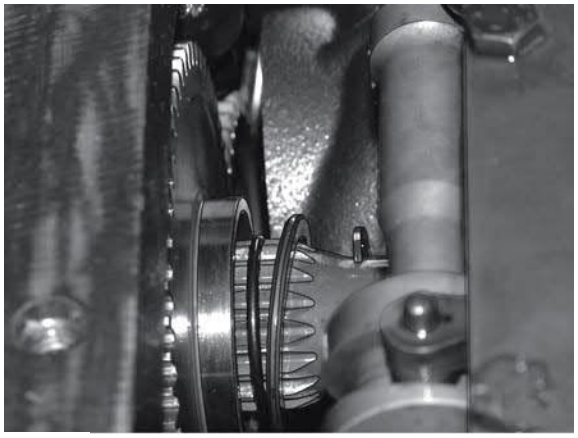

Fig. 22. I016193

3. Disconnect the electrical connectors and mechanical link, and remove the control unit.

Fig. 23. I016195

4. Remove the control spool valve block.

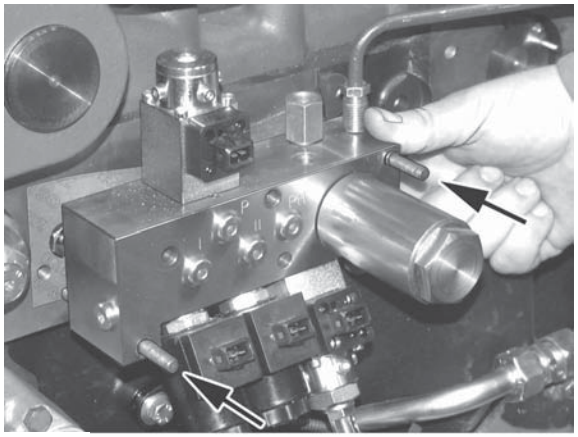

Fig. 24. I016197

5. Remove the retaining rings and push the hydraulic pipes back inwards.

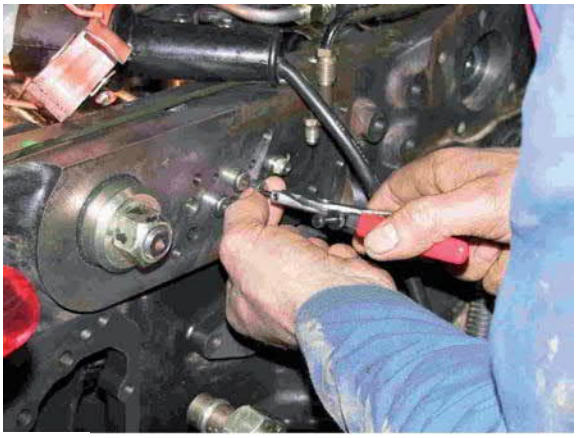

Fig. 25. I016199

6. Disconnect the connector and remove the sensor.

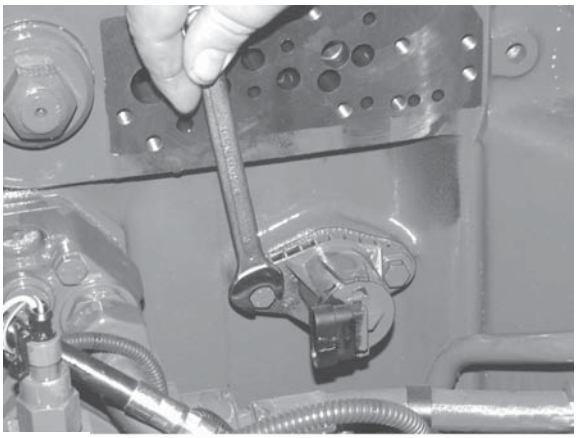

Fig. 26. I016202

7. Remove the hydraulic unions from the valve block housing, disconnect the electrical connectors, remove the pressure filter and then remove the valve block housing.

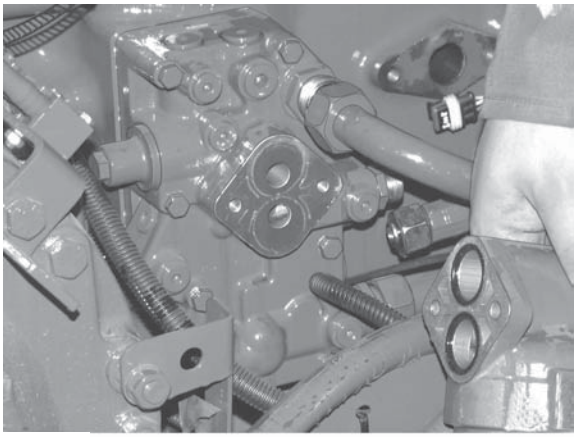

Fig. 27. I016204

8. Remove the 2 retaining rings.

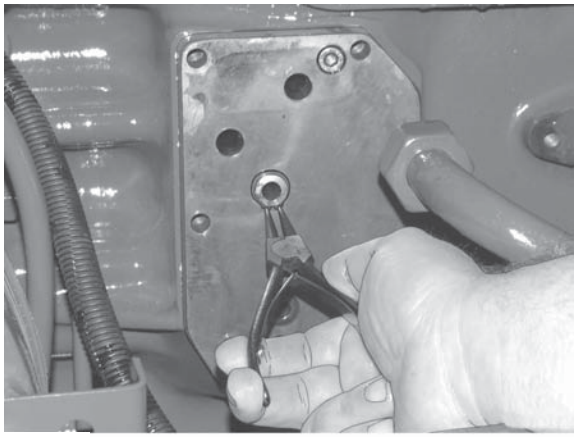

Fig. 28. I016207

9. Remove the interior hose and then remove the plate.

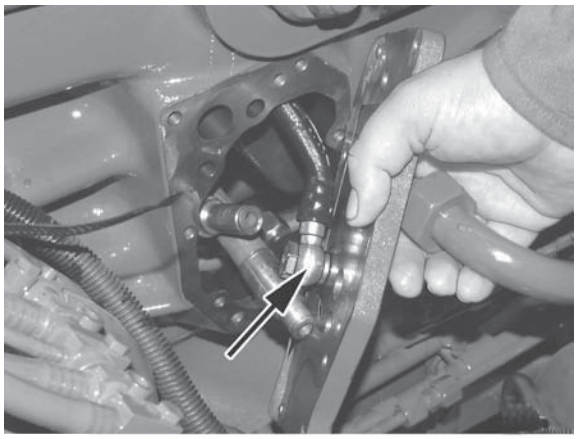

Fig. 29. I016212

10. Undo the screw holding the cam channel shaft.

Fig. 30. I016214

11. Remove the cam channel control shaft.

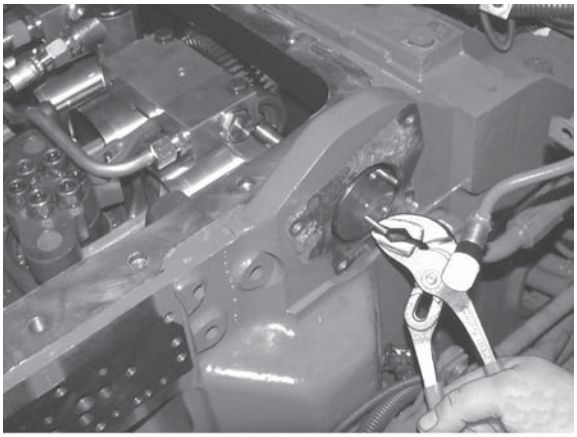

Fig. 31. I016216

12. Remove the 3 screws attaching the epicyclic gear train and push the shaft backwards.

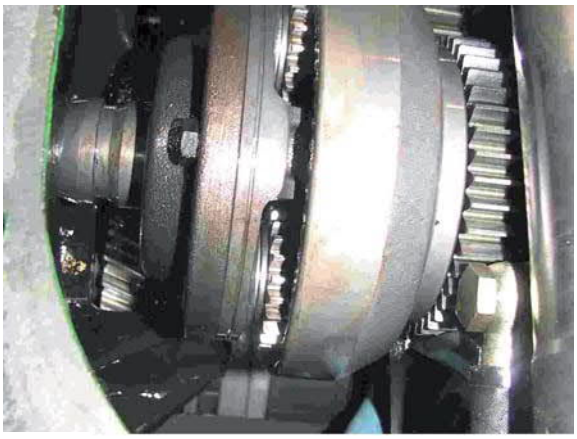

Fig. 32. I016218

13. Slide and stretch the retaining ring of the pinion and lock it on the shoulder located at the back (see arrows), then drive the coupling sleeve out towards the rear.

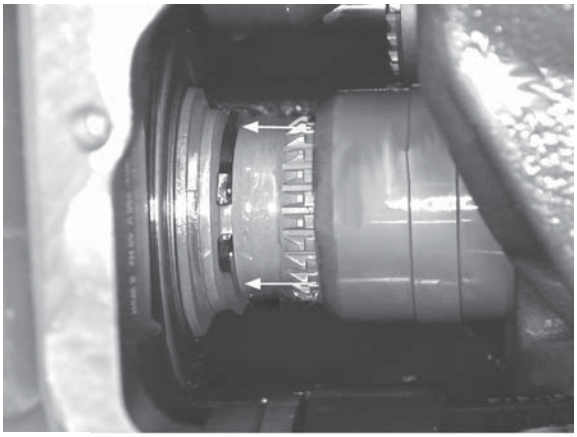

Fig. 33. I016220

14. Use a lever to push the hydrostatic motor inwards.

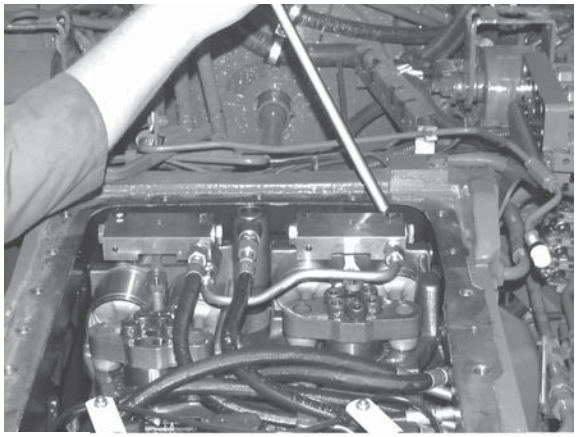

Fig. 34. I016222

15. Use a lever to push the hydrostatic pump inwards.

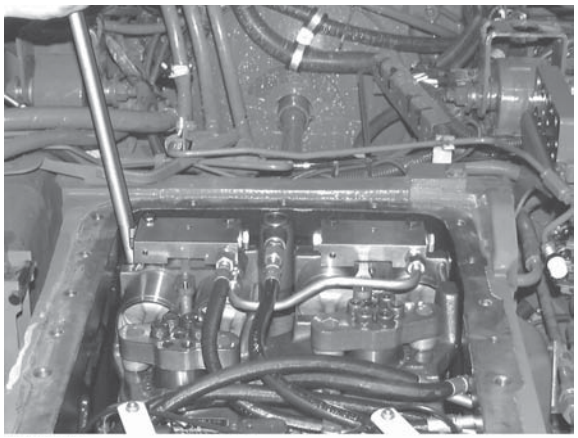

Fig. 35. I016224

16. Unscrew the tank supports and offset the tank to provide access to the unit support lower shaft nut.

Fig. 36. I016226

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