



Splitting the tractor - Front frame / engine

2C01.1

2 C01 Splitting the tractor between the front frame and the engine

CONTENTS

A. Uncoupling	_____	2
B. Recoupling	_____	3
C. Version with Carraro front axle	_____	4
D. Service tools	_____	7



2C01.2



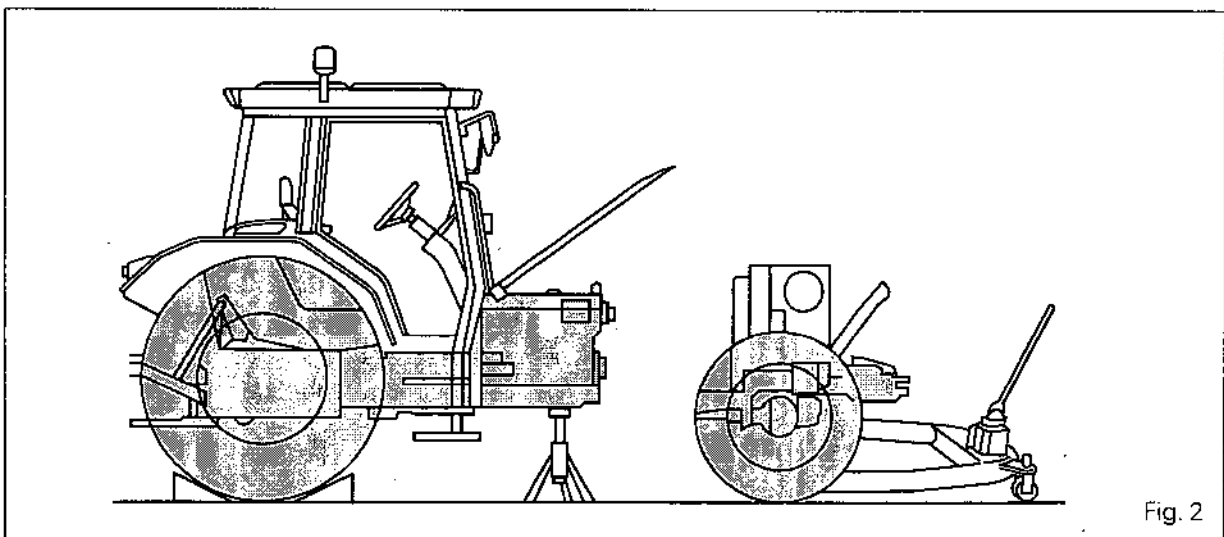
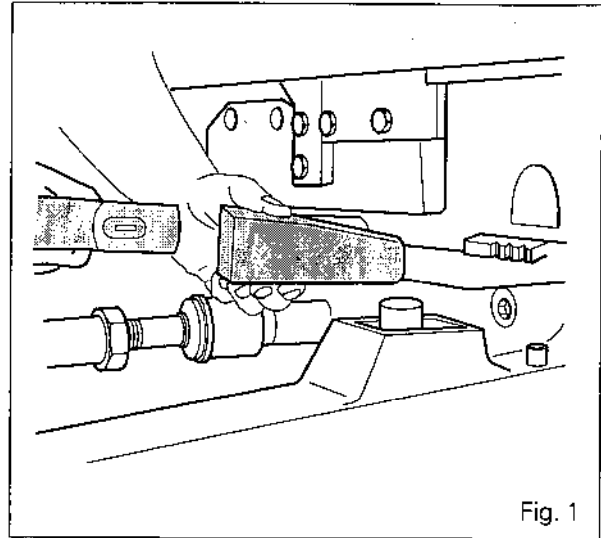
Splitting the tractor - Front frame / engine

A. Uncoupling

Remark

This section give a general splitting procedure. By reason of all option available on the 6200 range, we explain only how to disconnect the main circuits. For these reasons check the last connection between the fixed and themobil element.

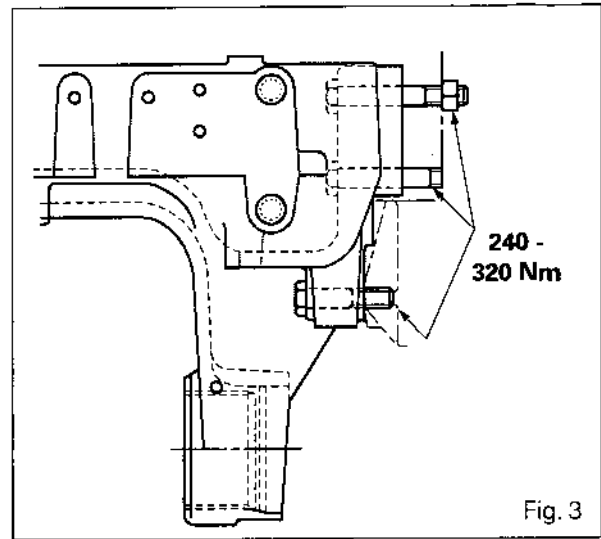
1. Disconnect the two 4WD front axle control hoses.
2. Remove the guard and the 4WD drive shaft.
3. Remove the lateral sheet metal panels. Release the front latch and lift the bonnet open or remove the lateral sheet metal panels, the bonnet and the exhaust pipe (according to option).
4. Disconnect the earth cables only from the batteries.
5. Disconnect and mark the positions of hoses and flexible connections, as follows :
 - the two Orbitrol steering hoses,
 - the hose from the cooler on the 17-bar valve (hydraulic open center, repair the position),
 - the hoses from the fuel cooler (if fitted),
 - the harness for the flowmeter and its three hoses located to the left of the fuel filter (if fitted),
 - the connectors for the front light and the vaccum switch,
 - the positive cable on the starter,
 - the inlet sleeve between the turbocharger (if fitted) and the air filter,
 - the suction pipe between the air filter and the exhaust pipe.





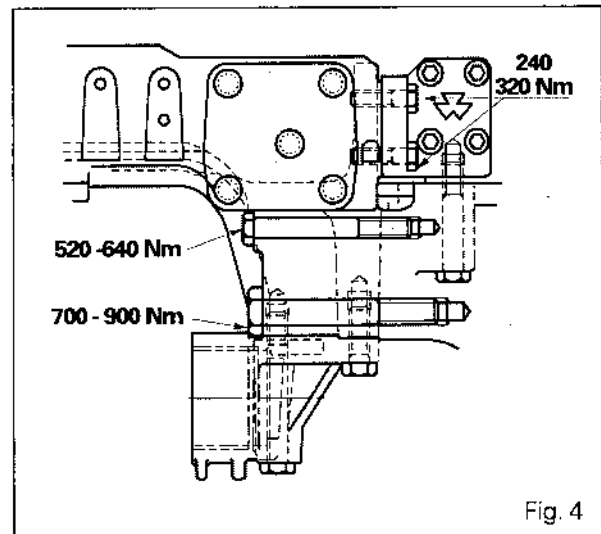
Splitting the tractor - Front frame / engine

6. Drain the cooling system. Disconnect the lower and upper hoses from the radiator and the hose from the expansion tank.
7. Remove the upper attachment on the radiator (according to fitting).
8. Remove the air conditioning compressor and bracket assembly and tilt it forwards with its two hoses (according to option fitted).
9. Remove the front weights.
10. Immobilise the tractor. Apply the handbrake. Position wedges between the frame and the front axle (Fig. 1).
11. Loosen the bolts attaching the engine to the front frame.
12. Support the tractor under the frame using a trolley jack or the splitting tools 3378152M11 and separate the engine from the frame (Fig. 2).



B. Recoupling

13. Screw two guide stud (locally manufactured) into diametrically opposite positions on the front frame.
14. Fit the frame to the engine.
15. Install the bolts and tighten to the specified torques:
 - 4-cylinder engines : see Fig. 3
 - 6-cylinder engines : see Fig. 4.
16. Refit the air conditioning compressor and bracket assembly and the upper attachment on the radiator (according to fitting).
17. Reconnect the inlet sleeve, suction pipe, harnesses, hoses, flexible connections, and pipes.
18. Reinstall the front weights.
19. Top up the cooling system.
20. Reconnect the batteries.
21. If the tractor is equipped with a flowmeter, purge the injection pump supply system.
22. Start the engine and check :
 - the hydraulic systems for any leaks,
 - the correct operation of the electrical systems.
23. Close and latch the bonnet, refit the lateral sheet metal panels or refit the bonnet, the lateral sheet metal panels and the exhaust pipe (according to option), the drive shaft and the 4WD guard
24. Reconnect the front axle control hoses.
25. Carry out road test.





2C01.4

6200 SERIES TRACTORS

**Splitting the tractor - Front frame / engine****C . Option with Carraro front axle****Remarks**

- The 6260 and 6270 to 6990 tractors (6-cylinder engine) can be equipped with a fixed or suspended Carraro front axle.
- The splitting procedure is on the whole similar to that applied for Dana front axle. Some changes are to be noted concerning the position and number of components to be removed.
- The front frame, also called axle support, is listed in the spare parts catalogue under a different reference than the one created for Dana front frame.

Preliminary operations**Remark**

- Depending on the fitting, the batteries can be situated either in the nose assembly or on the right-hand side of the tractor.

26. Disconnect the cables leading to the negative pole of the batteries.
27. Remove the front weights.
28. Remove the guards (2) (2A) and the universal 4WD drive shaft (see section 8F02).
29. Unlock partially the side panels.
30. Release the bonnet latch in front.
Tip up and attach the bonnet and the panels together in the opening position.
Remove the attachments of the release jacks.
31. Disconnect hoses and pipes while noting carefully their positions:

Fixed front axles

- *right side of the engine*: steering pipe
- *left side of the engine*: the pipes (steering and differential lock)

Suspended front axles

- *right side of the engine*: the pipes (steering and differential lock)
- *left side of the engine*: the hydraulic bloc pipes (return, LS and pressure)

Fixed and suspended front axles

- the oil and gas oil cooler hoses within the nose assembly
- the electrical harness (road lights, vacuum gauge and hydraulic block for suspended front axle)
- the connector above the radiator.

32. Clear the periphery of the radiator with the following operations:

- Remove the air filter and surrounding components,
- Tip over the air-conditioning condenser without disconnecting the hoses (according to option),
- Remove the protection grille on both sides of the ventilator,
- Drain the radiator of the cooling circuit.

Remark : The drain plug is located in front in the lower part of the radiator.

- Remove the lower and higher hoses and also the one connected to the radiator tank.
- Disconnect the suction duct between the exhaust pipe and the air filter.



Splitting the tractor - Front frame / engine

Uncoupling

33. Immobilise the tractor. Put on the handbrake. Chock the axle between the frame and the front axle. (Fig. 5, fixed version).
34. Partially loosen attachment bolts (1) to (3) between the engine and the front frame (Fig.6).
35. Start the uncoupling operation using a trolley jack or the separating assembly, ref.3378152M11, placed under the frame.

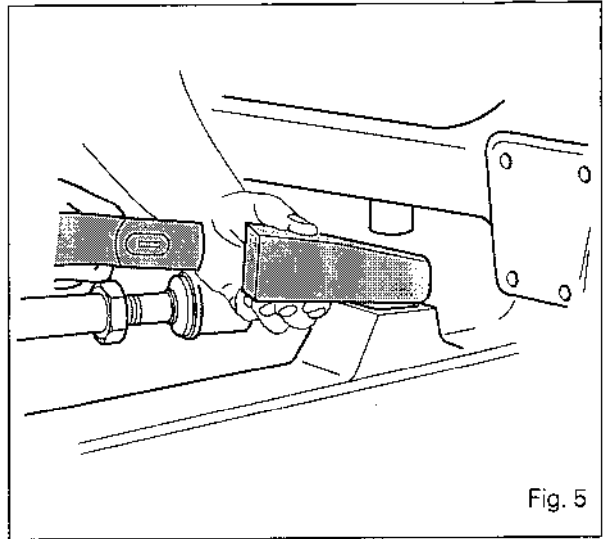


Fig. 5

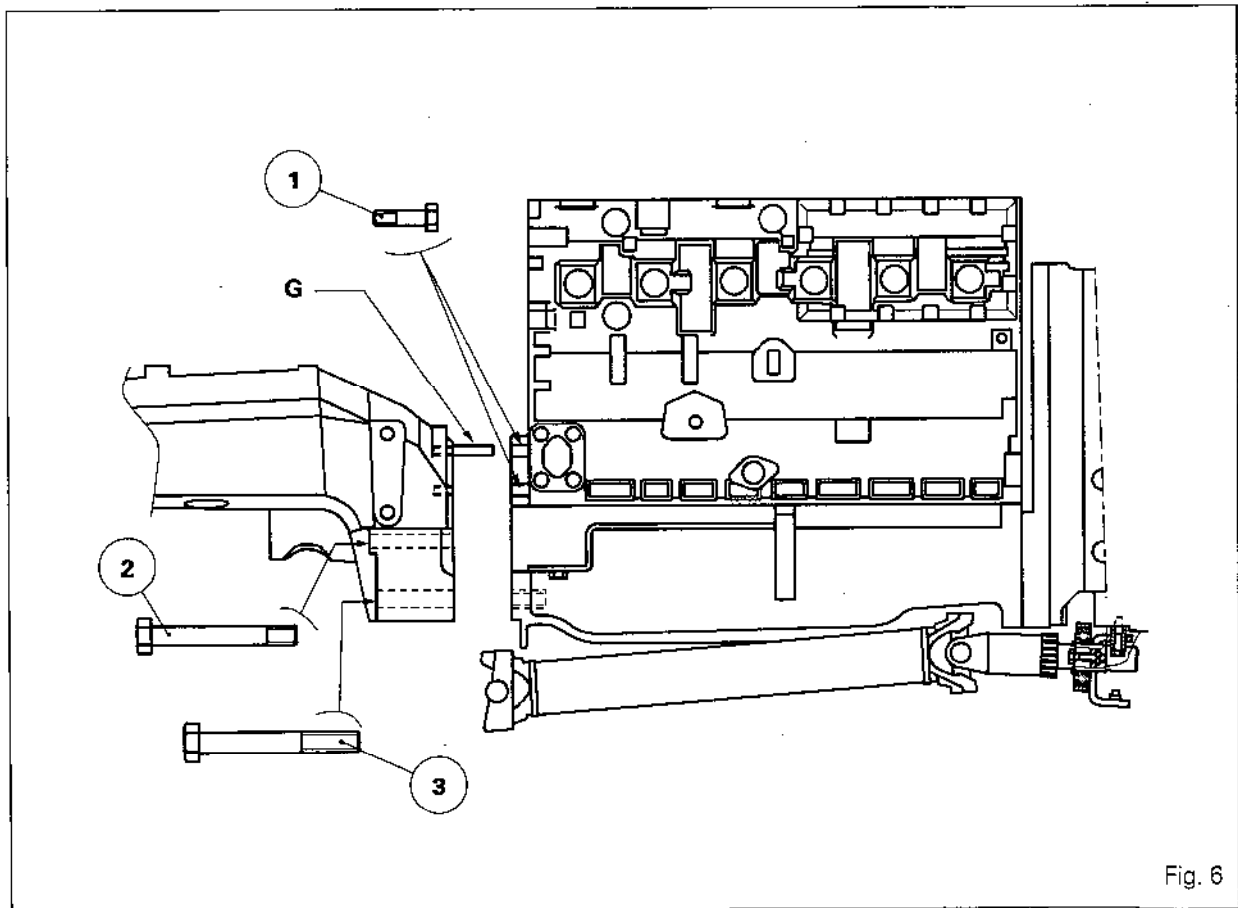


Fig. 6



2C01.6

6200 SERIES TRACTORS



Splitting the tractor - Front frame / engine

36. Completely remove the attachment bolts.
Separate the assemblies (Fig. 6 - 7).

Remark

- If the tractor is equipped with a front Power Take Off, its drive shaft is integral with the engine pulley, when the frame moves.

Safety point

- The tractor may be equipped with a belly weight (110 Kg) housed in the frame. In this case and to avoid a possible tipping over of the assembly to be uncoupled, sling the front of the frame to restore the balance (Fig. 7).

Coupling

37. Make two guide studs "G" (Fig. 5) and fix them diametrically opposite on the front frame.
38. Assemble the frame with the engine, following the same safety procedures as those applied during uncoupling (Fig. 7).
- Tighten the bolts to the torque shown (Fig. 6):
 - bolt (1) : 240 - 320 Nm
 - bolt (2) : 540 - 640 Nm
 - bolt (3) : 670 - 900 Nm

Final operations

40. Couple the tractor parts. Reverse the uncoupling sequence and refer to the special points given below.

Special points

- In the final phase, start the engine. Check the proper functioning of the electric components and check also for the oil tightness of:
 - . hydraulic seals and hoses
 - . hoses

Suspended front axles

- Operate the front axle several times up and down to check its proper operation and detect any possible leaks.

Fixed or suspended front axles

41. Carry out a road test.

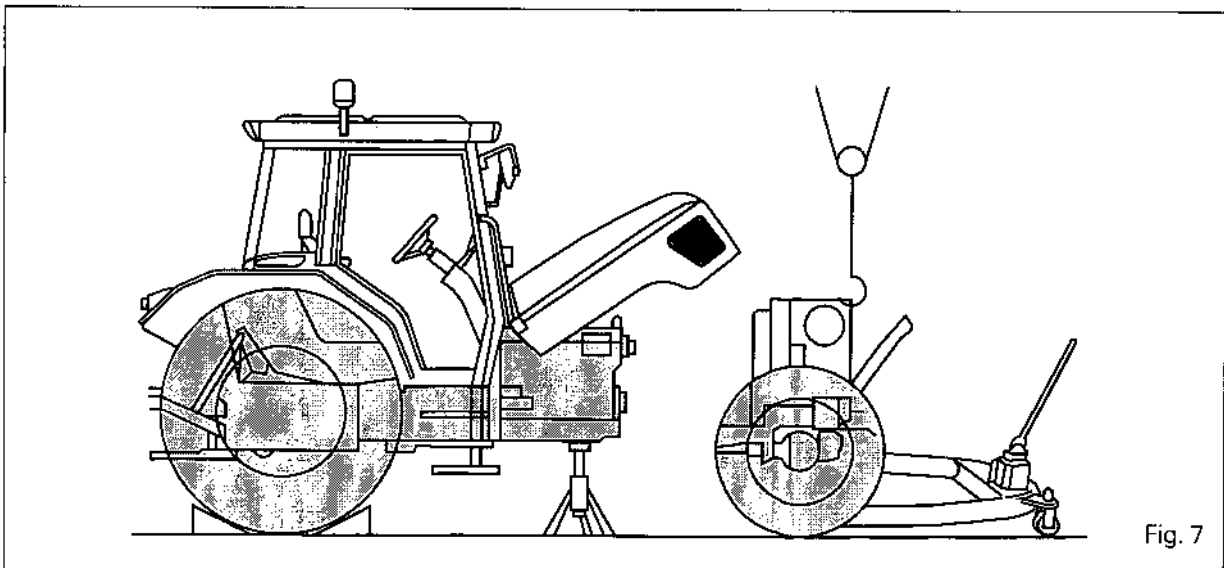


Fig. 7



Splitting the tractor - Front frame / engine

D. Service tool

- 3376935M91 - Set of plugs for air conditioning couplings (Fig. 8)
- 3378152M11 - Splitting tools (Fig. 9)

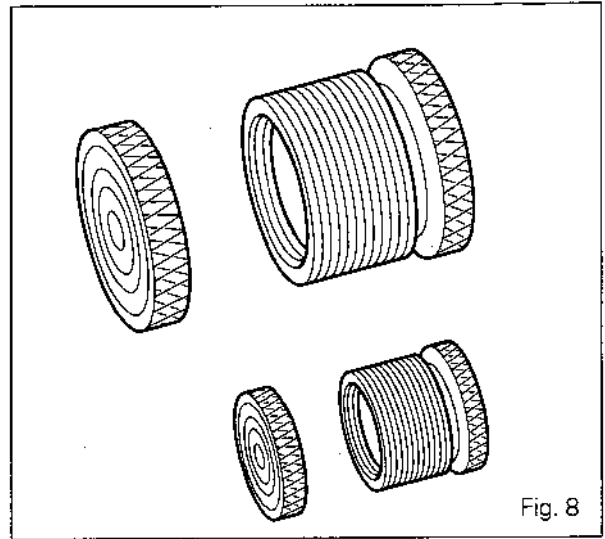


Fig. 8

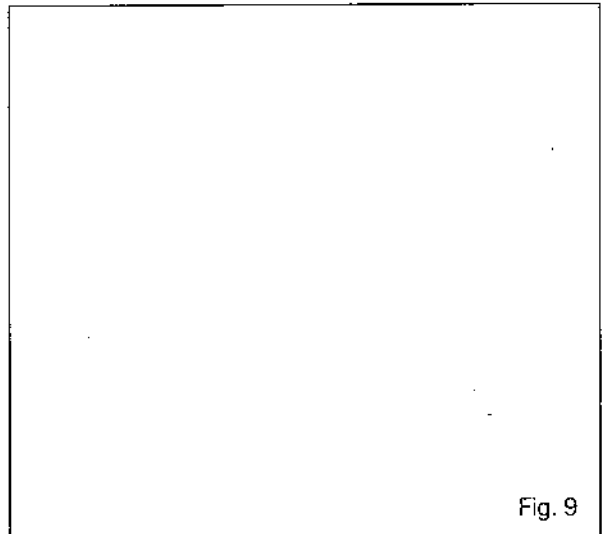


Fig. 9



3 . ENGINE

Contents

3 A01 GENERAL

3 B01 ENGINE FLYWHEEL AND DAMPERS

3 C01 SPACER - SPRING LOADED CLUTCH

3 C02 SPACER - PRESSURE LOADED CLUTCH

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