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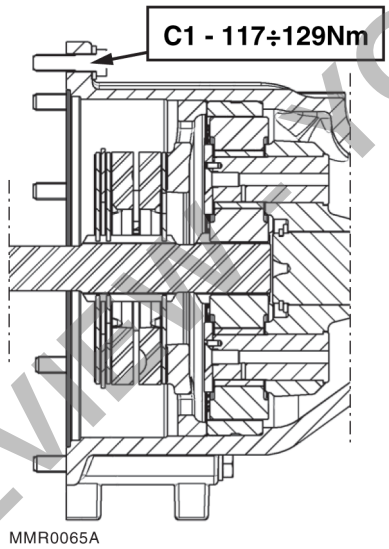
## MAIN DATA

(overleaf)

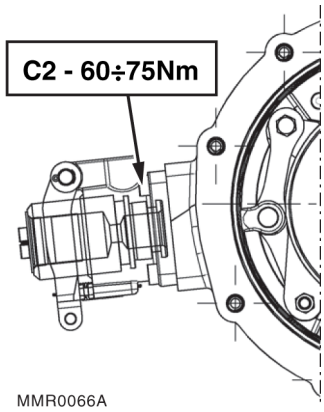
| | | |
|---|---|---|
| **Hydrostatic control** | | |
| Hydraulic pump | | with 2 master cylinders independently operated by brake pedals |
| Working pressure | bar | 17.6 (18 kg/cm$^2$) |
| Control pedal adjustment | | see page 14 |
| Bleeding air from brake circuits | | see page 15 |

## TIGHTENING TORQUES

| PARTS TO BE TIGHTENED | Thread | Tightening torque | |
|---|---|---|---|
| | | Nm | kgm |
| Screws or nuts securing gear casing to transmission casing ($C_1$) | M12 x 1.25 | 117 ÷ 129 | 11.9 ÷ 13 |
| Brake control assembly retaining bolts ($C_2$) | – | 60 ÷ 75 | 6.1 ÷ 7.6 |



MMR0065A



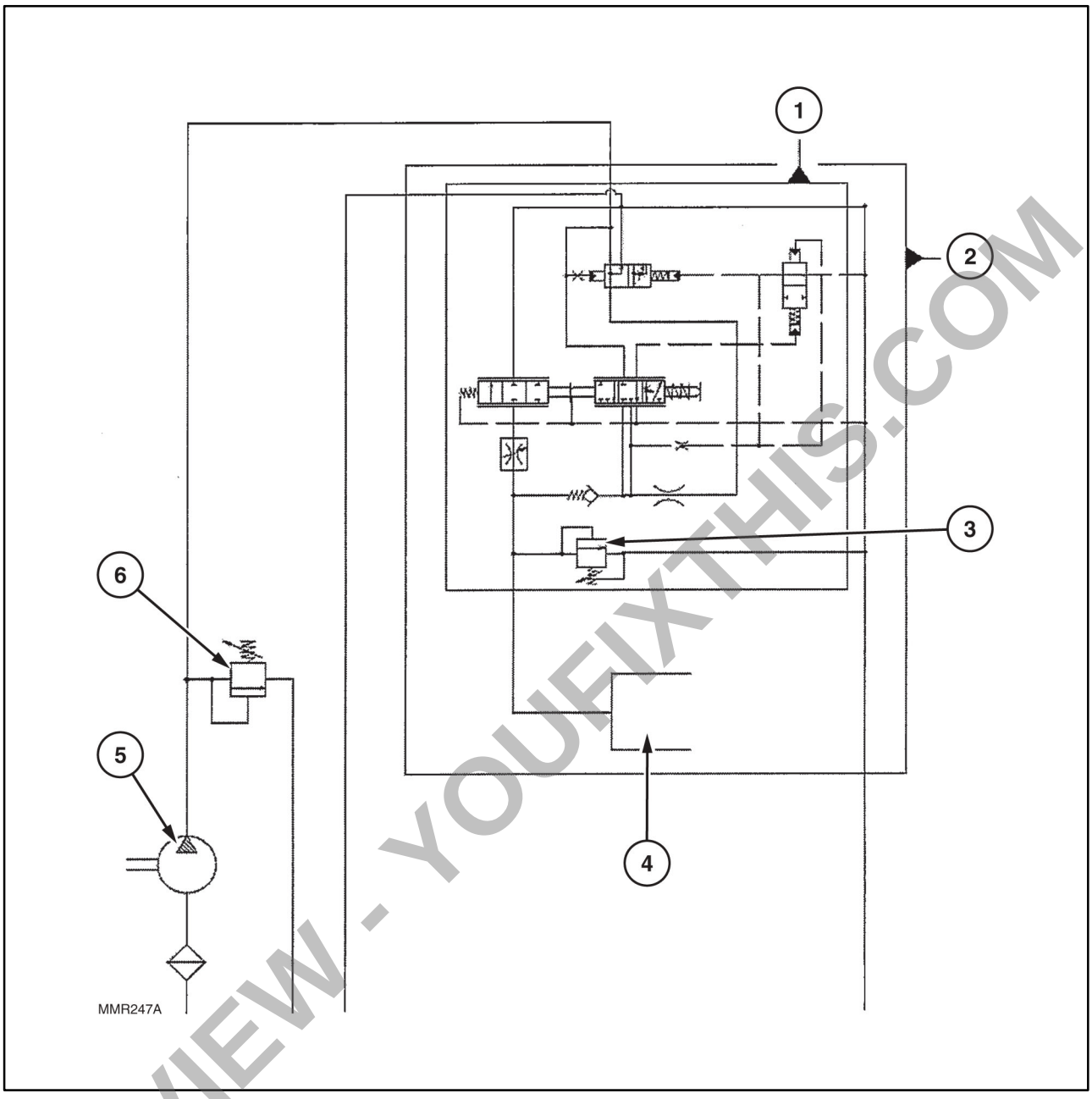
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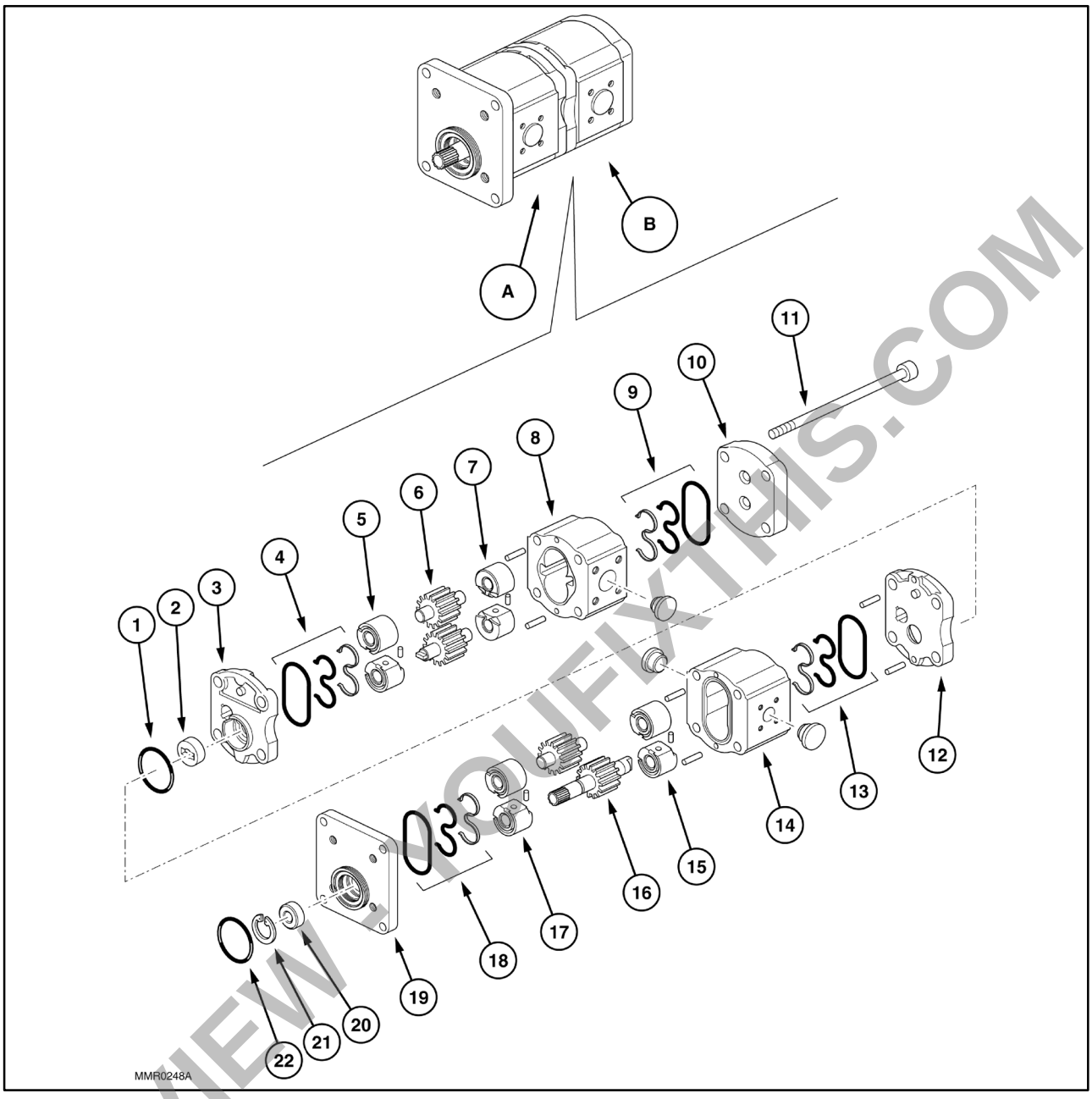
**Hydraulic diagram**

**1.** Lift hydraulic distributor.
**2.** Hydraulic Power lift.
**3.** Safety valve.
**4.** Lift cylinder.
**5.** Hydraulic pump.
**6.** Pressure relief valve.

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1

**Components of the BOSCH 19 + 11 or 19 + 14 pumps**

**A.** Lift hydraulic pump.
**B.** Services hydraulic pump.
**1.** Seal.
**2.** Bush.
**3.** Cover.
**4.** Seals.
**5.** Gear support.
**6.** Drive and driven gears.
**7.** Gear support.
**8.** Pump body.
**9.** Seals.
**10.** Cover.
**11.** Screw.
**12.** Cover.
**13.** Seals.
**14.** Pump body.
**15.** Gear support.
**16.** Drive and driven gears.
**17.** Gear support.
**18.** Seals.
**19.** Cover.
**20.** Bush.
**21.** Circlip.
**22.** Seal.



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## HYDRAULIC LIFT TROUBLESHOOTING

| Problems | Possible causes | Solutions |
|---|---|---|
| The lift has difficulty in supporting the load, there are rhythmic oscillations with the engine running, the load lowers with the engine switched off. | 1. Worn piston ring.<br>2. Exhaust valve not calibrated.<br>3. Oil seepage from the safety valve.<br>4. Oil seepage from the check valve. | Replace seal.<br>Adjust the sensitivity in the distributor or replace the valve.<br>Remove the distributor and adjust or repair the valve.<br>Remove the distributor and adjust or repair the valve. |
| There are rhythmic oscillations with the arms lifted up to the rear limit switch device and the engine running; with the engine switched off the load fails to lower | 1. Incorrect adjustment of the lever of the position control that, at the greatest lift height, causes the automatic operation of the rear limit switch device. | Adjust the position control lever. |
| Working in draft control mode, the implement drops too far or fails to remain in the furrow. | 1. Incorrect setting of the distributor sensitivity. | Adjust the distributor sensitivity. |
| The draft control does not work, the lift raises and lowers only with the position control lever. | 1. Incorrect adjustment of the draft control lever. | Adjust the draft control lever. |
| The position control does not work, the lift raises and lowers only with the draft control lever. | 1. Incorrect adjustment of the position control lever.<br>2. Internal linkages damaged. | Adjust the position control lever.<br>Overhaul the lift. |
| The lift operates in jerks. | 1. Low level of oil in the tank.<br>2. Pump inlet filter clogged.<br>3. Air in the pump suction line. | Top up oil.<br>Clean or replace filter.<br>Check the suction pipe, fittings and seal. |
| Lift not working. | 1. Differential valve blocked or dirty. | Remove the distributor and free the regulator piston. |
| The lift starts to rise but stops when it detects the load and the pressure relief valve has not tripped. | 1. The size (L, fig. 39) of the tie-rod (T) is not the prescribed one. | Adjust the draft control lever. |
| The lift fails to lower completely as far as the limit stop. | 1. Incorrect adjustment of the position control lever (1). | Adjust the position control lever. |
| The lift fails to lower. | 1. Exhaust valve blocked. | Remove the distributor and free or clean the exhaust valve. |
| The lifting capacity does not correspond to the specifications. | 1. Deterioration in the distributor seal rings.<br>2. Relief and safety valves off setting.<br>3. Pump faulty.<br>4. Excessive seepage of oil from the distributor. | Remove the distributor and replace the outside seal rings.<br>Check the calibration of the valves.<br>Replace pump.<br>Have the distributor overhauled. |

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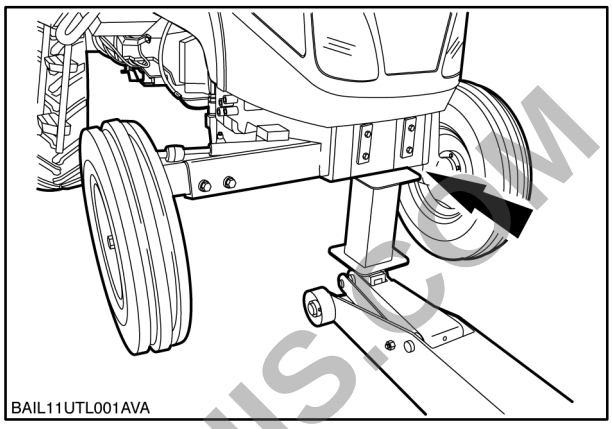
**Op. 44 101 22**
**FRONT AXLE HUB**
**Disassembly-Assembly**

**DISASSEMBLY**

**ATTENTION**

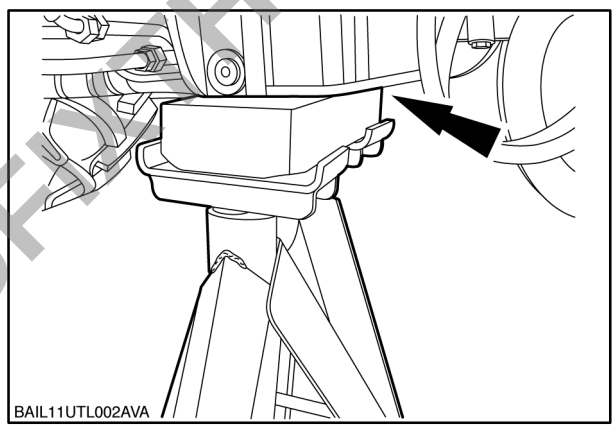
Handle all parts carefully.
Do not put your hands or fingers between parts.
Wear the prescribed safety clothing, including goggles, gloves and safety footwear.

1. Lock the rear wheels using suitable chocks.
2. Using suitable lifting equipment, raise the front of the vehicle.



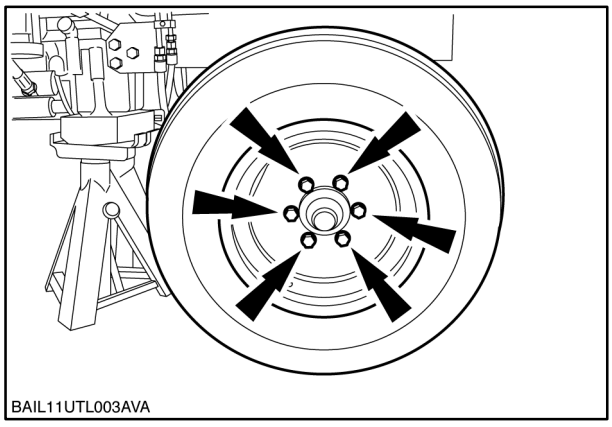

6

3. Place a suitable stand under the engine sump and insert a wooden block between the engine sump and the stand.




7

4. Remove the front wheel.




8

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# SECTION 35 - HYDRAULIC SYSTEMS

## Chapter 1 - Rear mechanical hydraulic lift

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