SERVICE MANUAL

LM5020

Telehandler

Part number 84559130
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Workshop manual
LM5020
TELESCOPIC HANDLERS

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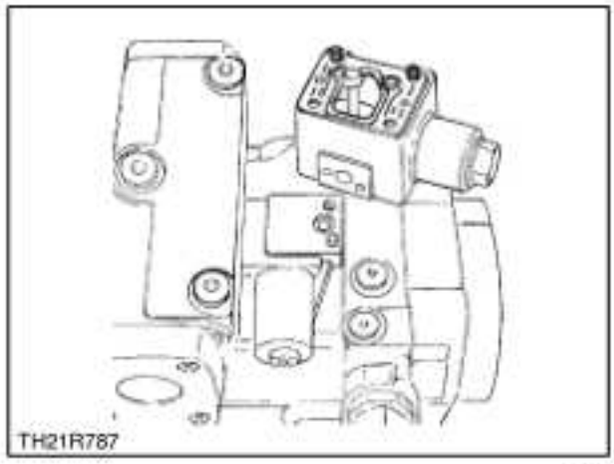
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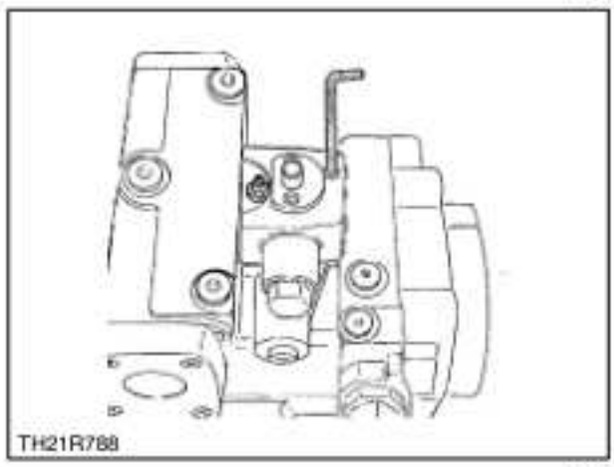
Assembly of the pump

Centre the seal using two fixing screws and fit the control unit.
Tighten all four screws to half of specified torque.

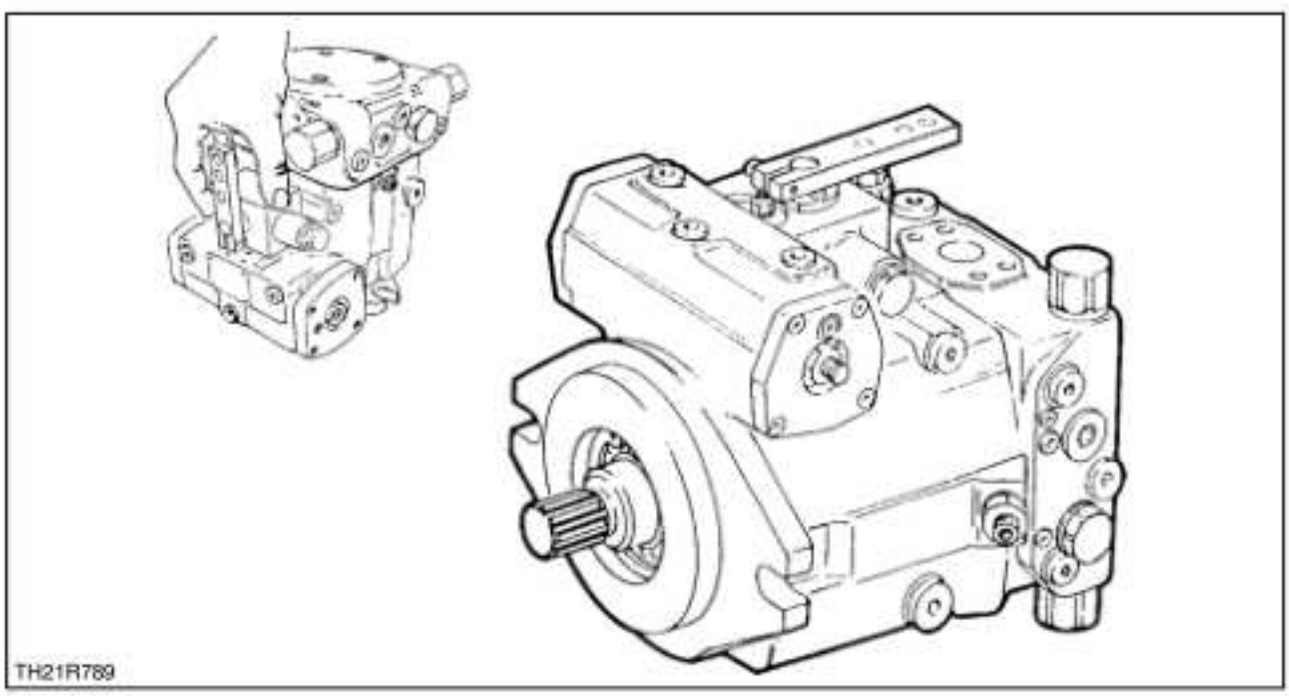


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Fit the fifth screw and tighten to a torque of 10,4 Nm. Then tighten the other four screws to there correct torque.



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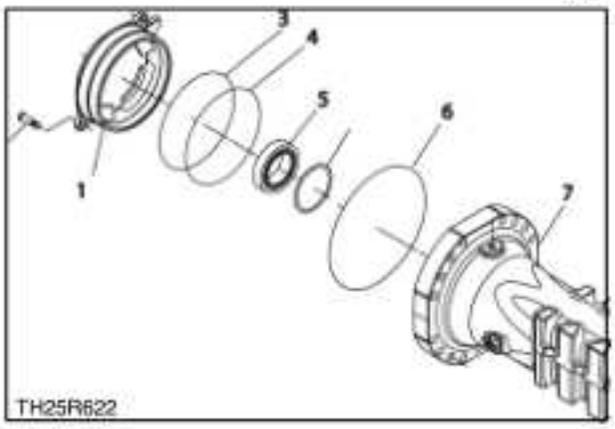
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Remove the central gearwheel (8) with washer.



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Remove the circuit breaker of the hydraulic blocking.



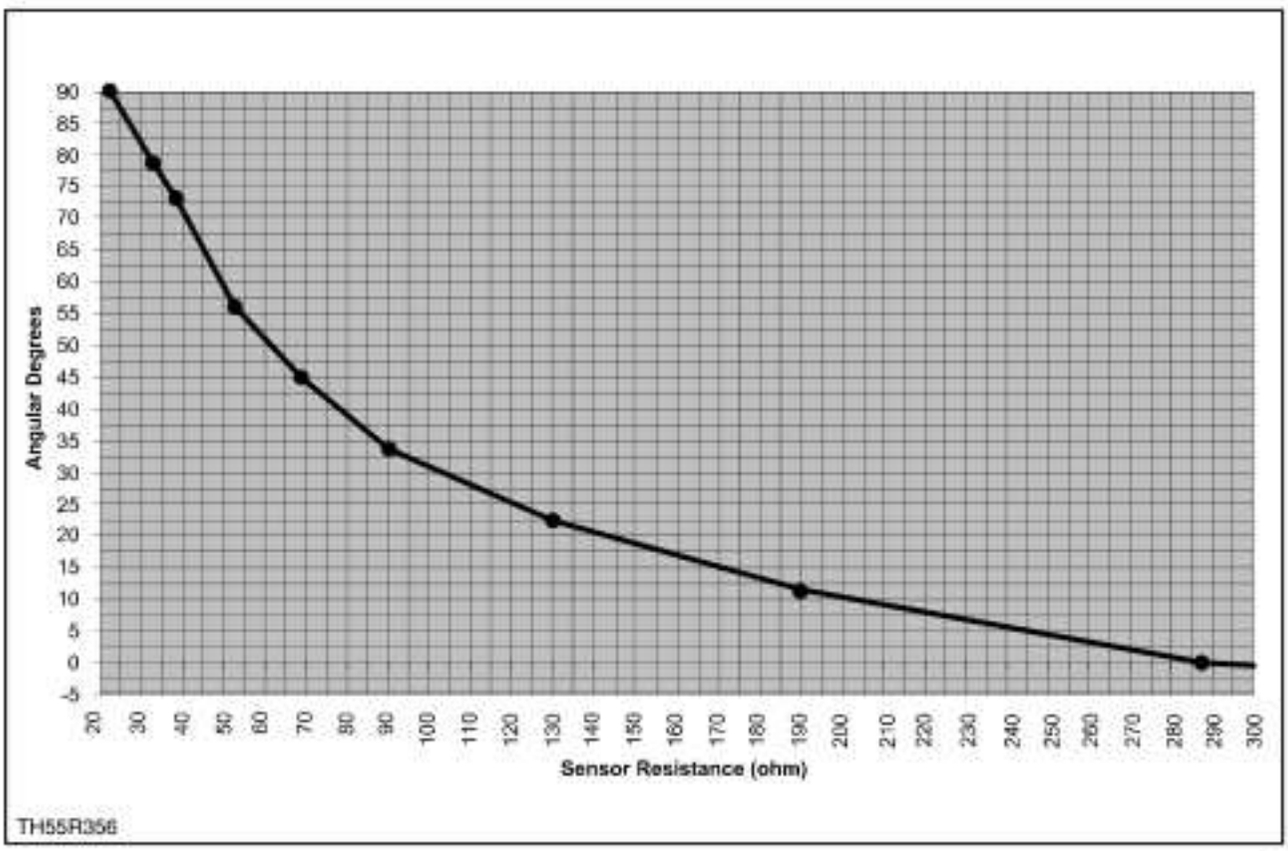
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(S5) PERKINS Engine cooling liquid temperature indicator SET 3

The sensor is of resistive type and has the following feature:

Temperature	Angular Degrees	Sector	Resistance [ohm]
-	-3.0	Mechanical Zero	400.0
40 °C	0.0	Start Scale	**287.0**
50 °C	11.3		190.0
60 °C	22.5		130.0
70 °C	33.8		90.0
80 °C	45.0	Half Scale	69.0
90 °C	56.3		53.0
100 °C	73.1	Start Red	**38.5**
110 °C	78.8		33.0
120 °C	90.0	End Red	**22.7**

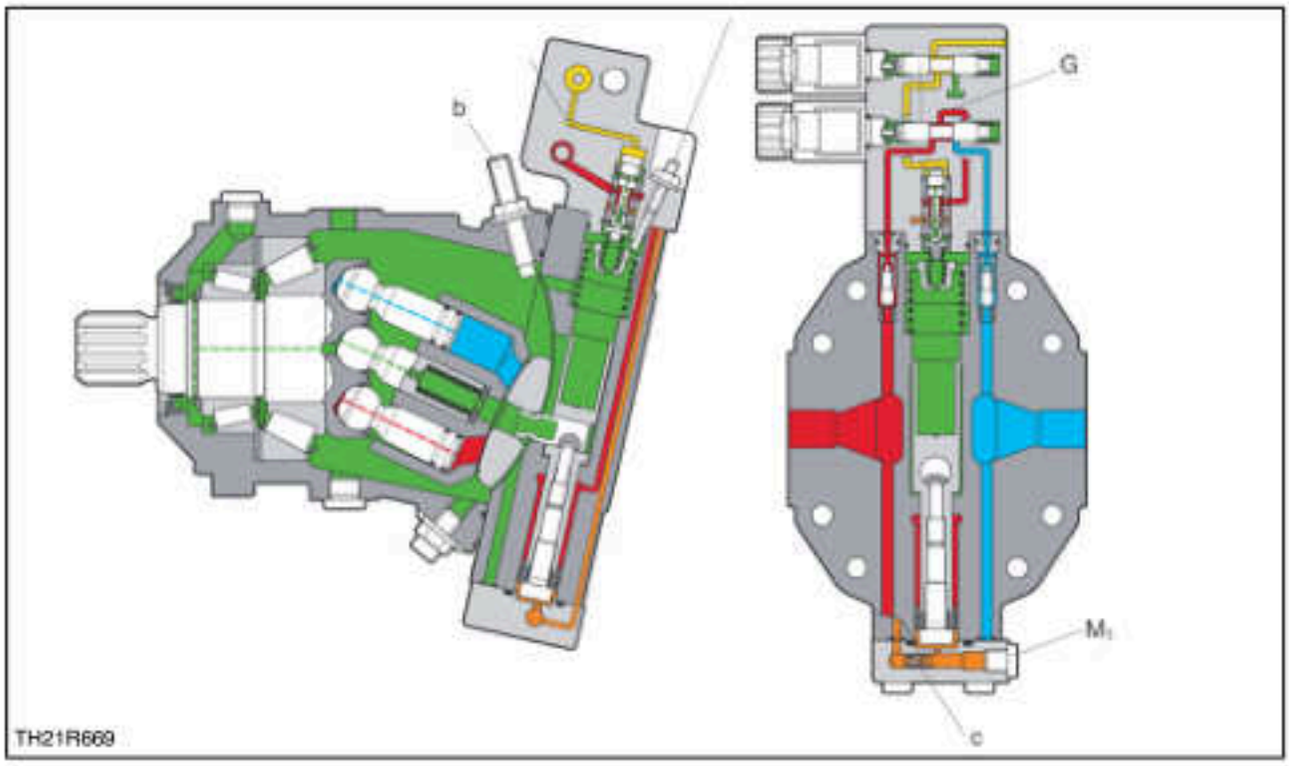


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Control DA2, 3, 5, 6

Setting test



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a. Set screw - Begin of control
b. Vg_{min}
G. Operating pressure
M_1. Control pressure
c. Throttle

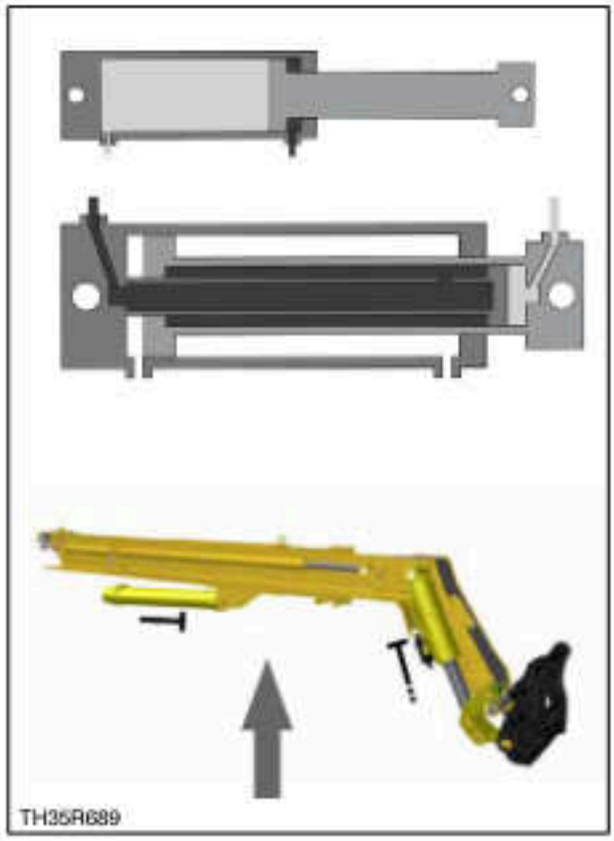
To check the begin of regulation:

1. Start the internal combustion engine.
2. Ensure that the manometer is connected at measuring points G and M1 of the motor, if not then connect it.
3. Set the travel direction switch to "Forwards". Set the drive to the gear in which the motor has independent control and brake it using the service brake or chocks or come to a stop against an obstacle. Ensure that the wheels do not spin.
4. Increase the operating pressure until the pressure for the set start of control is detected at measuring connection G. Obtain the value from the order confirmation.
5. Note the pressure at measuring connection M1: With a DA motor, the pressure at M1 drops.

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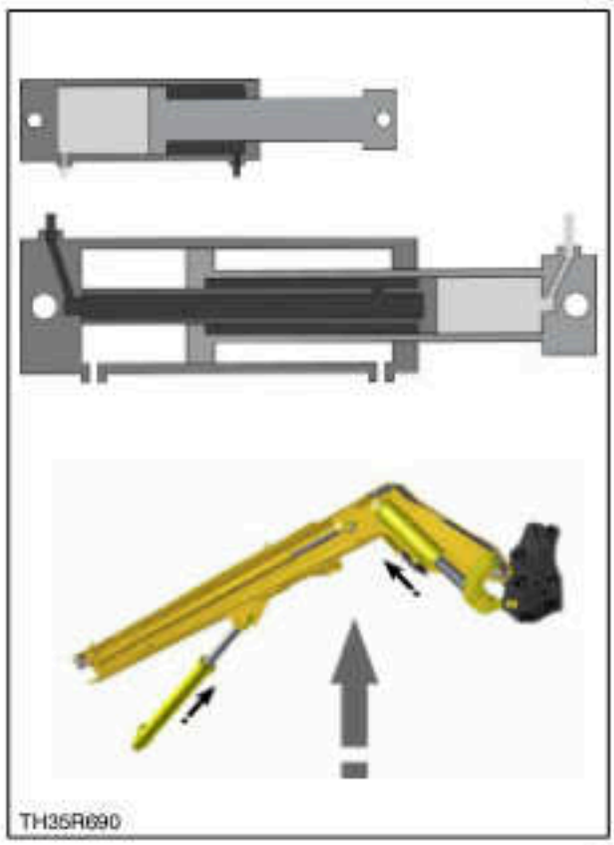
Boom lifting phases

Boom lifting start.



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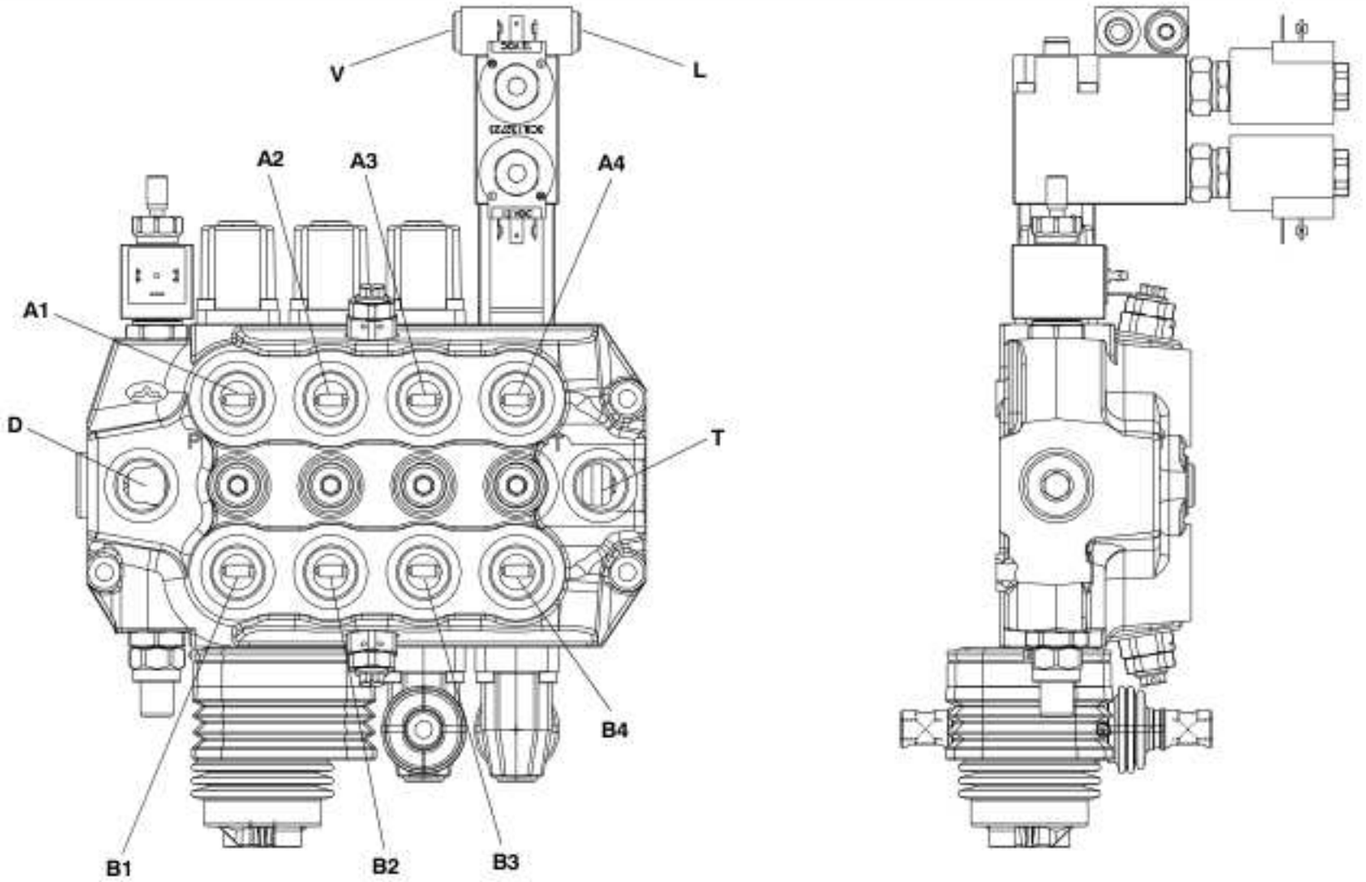
Boom lifting intermediate phase.



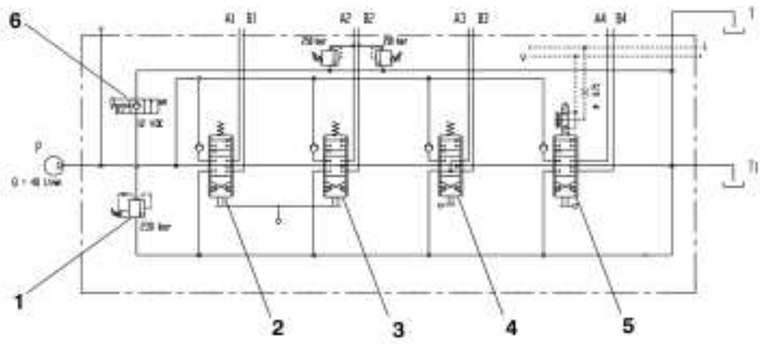
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HYDRAULIC CONTROL VALVE



HYDRAULIC CIRCUIT DIAGRAM



1. Max pressure control valve (230 bar)
2. Hydraulic valve for lifting boom cylinder
3. Hydraulic valve for compensation and tilt cylinders
4. Hydraulic valve for quick couplings
5. Hydraulic valve for extraction cylinder
6. Flow cut-off valve

P. Pump delivery line
T. Discharge line
A1-B1. To lifting boom cylinder
A2-B2. To compensation and tilt cylinders
A3-B3. To quick couplings
A4-B4. To extraction cylinder
V. Pilot pressure line
L. Drain pilot line

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