KRAMER

Repair manual

Telehandlers

4209 / KT429
4407 / KT447
5007 / KT507
5507 / KT557
5509 / KT559



Machine model	416-22-24-26-28-29
Version	1.0
Document number	1000384654
Language	[en]

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WARNING

Poisonous gases can be incurred during welding work or in the event of open flames close to the refrigerant circuit.

Poisoning hazard due to poisonous gases!

► Avoid open flames in the proximity of the refrigerant circuit.

► Do not weld close to the refrigerant circuit.

WARNING

Risk of injury from outflowing refrigerant!

This can cause serious frost bite or bodily injury!

► Before replacing components from the air-conditioning system, the refrigerant has to be emptied properly!

Air conditioning

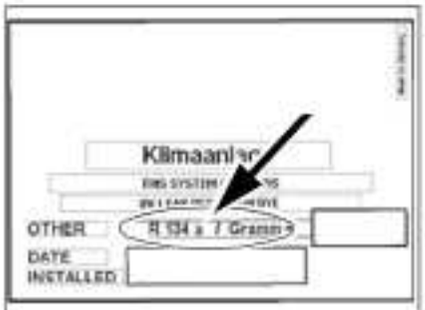


Fig. 197

The air conditioning system must be checked and serviced twice a year by trained personnel with expert knowledge about air-conditioning systems!

- For the first fill, see the air conditioning label inside the cabin on the door.

Information

Use only the refrigerants indicated on the label for refilling the air conditioning system (see arrow)!

Information

Before starting work, take safety and instructions into consideration

– see "Notes on the repair manual" on page E-1
– see "Safety instructions" on page E-5
– see "Maintenance work, notice" on page 1-1!
– see "Maintenance accesses" on page 1-20!

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Disassemble

1. If fitted, disassemble the underride protection – *see "Remove/install underride protection" on page 12-10*.
2. Take cover off transmission tunnel – *see "Remove/install transmission tunnel cover" on page 12-7*.
3. Remove the front cardan shaft – *see "Removing / installing front cardan shaft" on page 4-1*.
4. Dismount rear cardan shaft – *see "Removing / installing rear cardan shaft" on page 4-3*
5. Remove the screw plug **A** (M10) of the high-speed gearbox **B**.



Fig. 58



Fig. 59

6. Screw the eyelet **B** (M10) into position at this location.



Fig. 60

7. Remove the plug-in connection **C** at the speed sensor **B009**.

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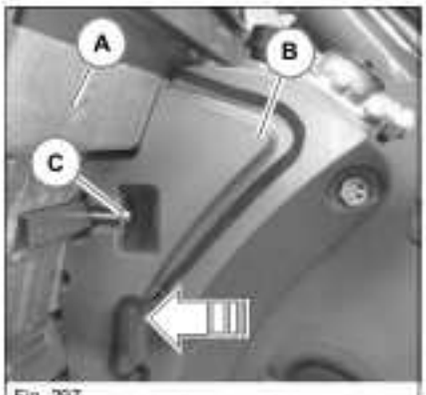


Fig. 297

Installation

1. Push hydraulic oil tank **B XX** under the driver's cab.
2. Tighten screw connection **C** on hydraulic tank **B XX** at the rear of the driver's cab **A** to 79 Nm (58 lbf.ft.).

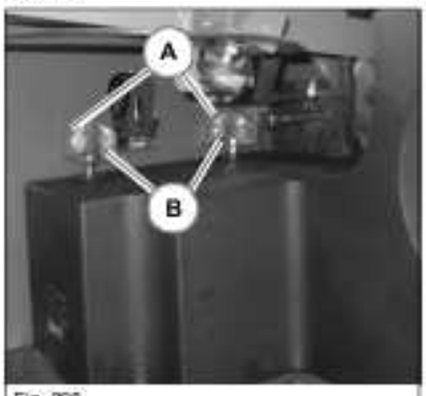


Fig. 298

3. Position holder **B**.
4. Tighten screws **A** together with washers.

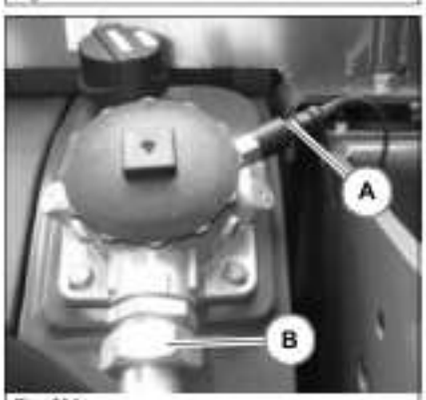


Fig. 299

5. Insert connector **A S005**.
6. Position hose and tighten screw connection **B** to 150 Nm (111 lbf.ft).

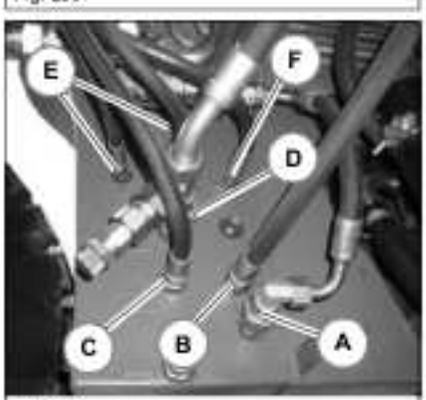


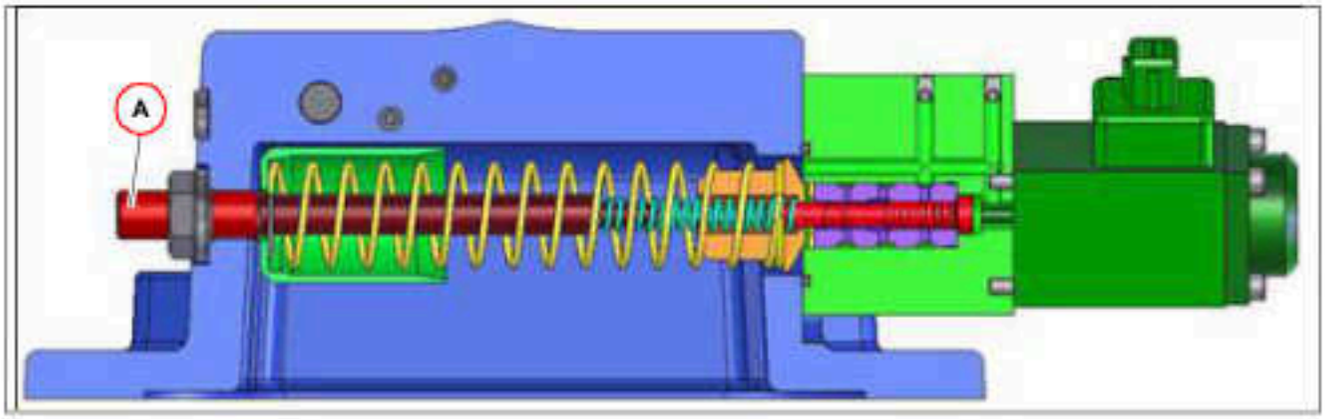
Fig. 300

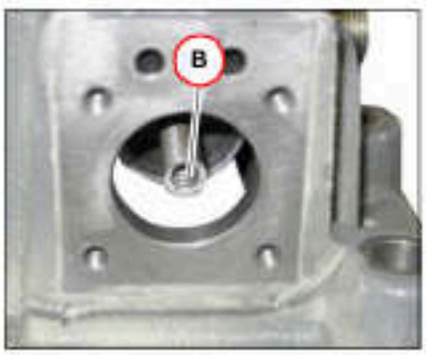
7. Position hose and tighten screw connection **F** to 40 Nm (30 lbf.ft).
8. Position hoses and tighten screw connections **E** to 28 Nm (21 lbf.ft).
9. Position hose with T-piece and tighten screw connection **D** to 110 Nm (81 lbf.ft).
10. Position hose and tighten screw connection **C** to 40 Nm (30 lbf.ft).
11. Position hose and tighten screw connection **B** to 60 Nm (44 lbf.ft).
12. Position the hose with bracket and tighten the screw connection **A** to 60 Nm (44 lbf.ft).

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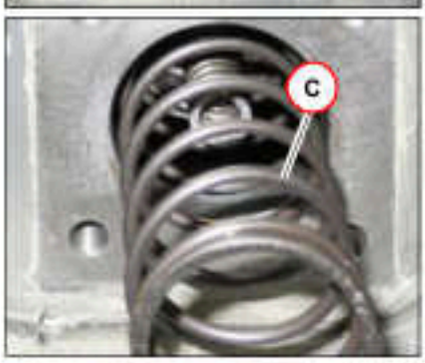
Installing the pressure regulator on the control cover

Pressure regulator and proportional valve (overview)

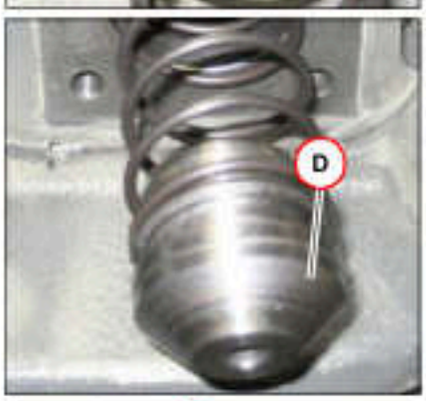




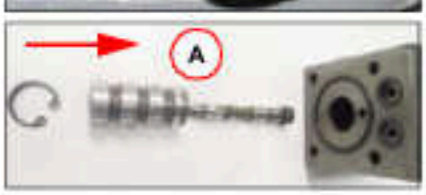
1. Reconnect start spring **B** with setting screw **A**.



2. Reconnect spring **C**.

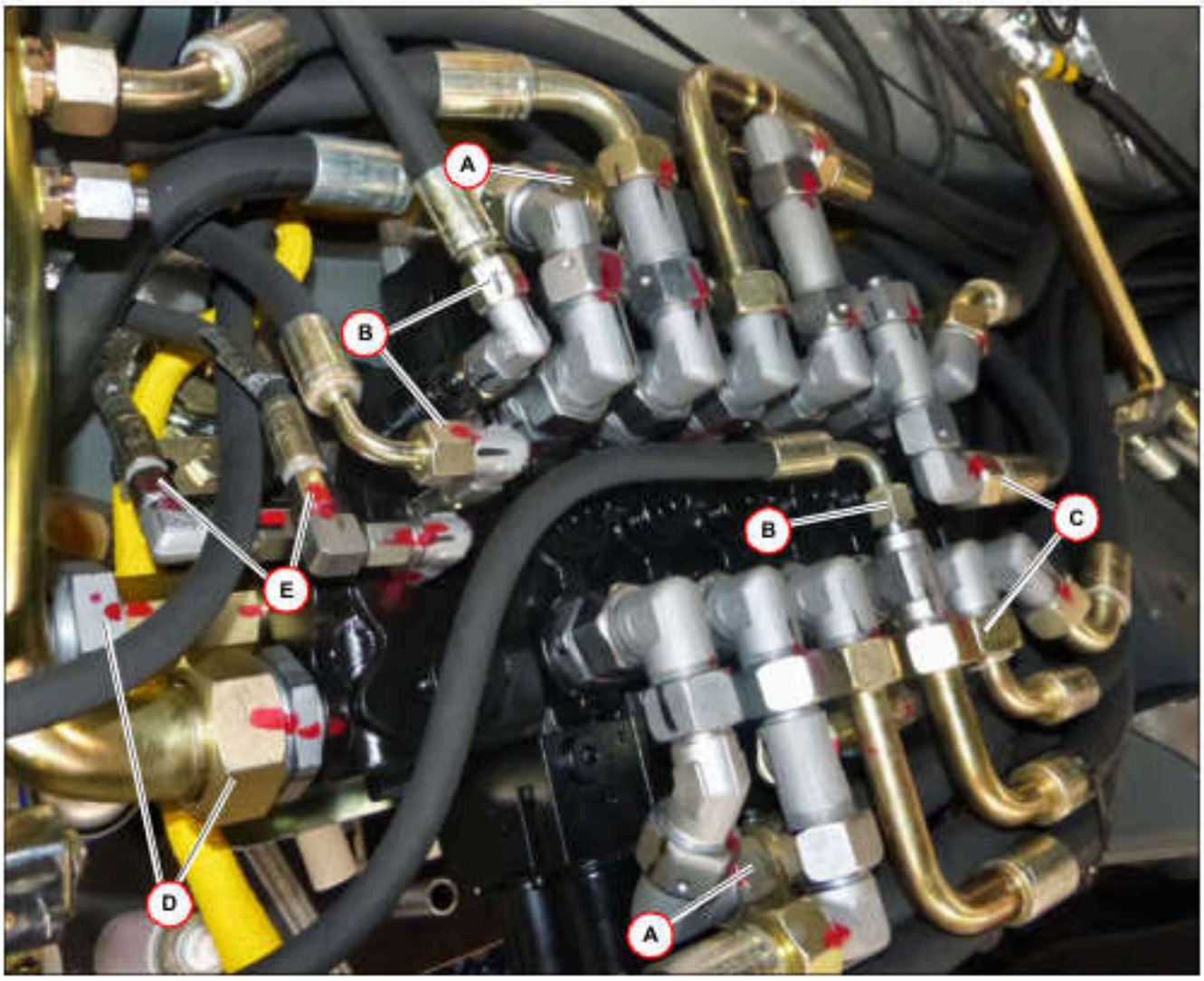


3. Connect spring plate **D** to spring **C**.



4. Mount pressure regulator **A**.
   ➥ Ensure that they are placed in the correct position!

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Position	A	B	C	D	E	None
Tightening torque	160 Nm (118 lbf.ft.)	28 Nm (21 lbf.ft.)	60 Nm (44 lbf.ft.)	170 Nm (125 lbf.ft.)	18 Nm (13 lbf.ft.)	80 Nm (59 lbf.ft.)

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