KRAMER

Repair Manual

Telehandler

5509



Machine model	416-06
From serial no.	416 06 0001
Version	1.0
Document number	1000344605
Language	[en]

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Component/application	Fluid/lubricant	SAE grade/specification	Temperature	Capacities[1]
Aggressive media (option)	Anticorrosion protection	Anticorit BW 366[2]	Year-round	As required
Air conditioning (option)[3]	Refrigerant[4]	R 134a/DIN 9860	Year-round	About 1300 g

1. The capacities indicated are approximate values; the oil level check alone is relevant for the correct oil level
2. TI 8030-015/K 19/MIL-C-16 173 C-Grade 4
3. Maintenance work may only be performed by trained personnel
4. Bear in mind the safety data sheet during maintenance

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Installing an orifice in end plate F

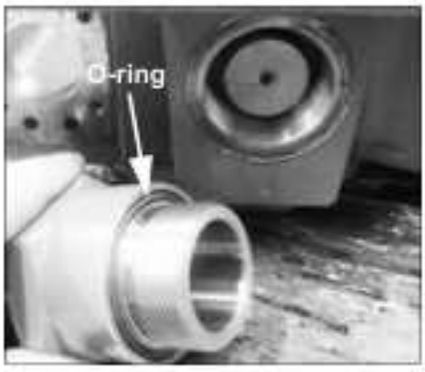
1. Install the orifice (Allen key 5)
   ➥ Tightening torque 5+2 Nm



2. Install end plate **F** on the control cover (Allen key 8)
   ➥ Tightening torque 70+3 Nm



3. Install pressure relief valve **H**
   ➥ Tightening torque 60+5 Nm



Installing the stroke adjustment housing

1. Apply a thin coat of grease to the new O-ring and install it
2. Install the stroke adjustment housing (wrench size 55)

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9.3 Load sensor

Dismantle load sensor

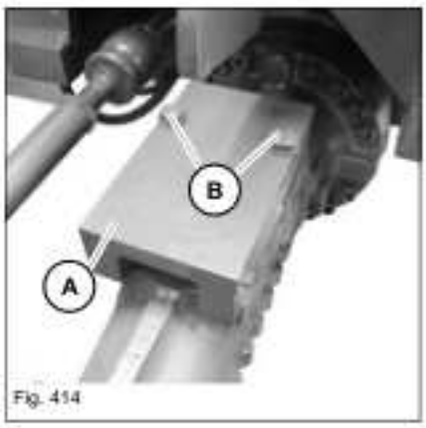


Fig. 414

Remove sensor protection

1. Remove 2 screws **B**.

Remove cover **A**.



Fig. 415

2. Disconnect cable **B** from wiring harness.

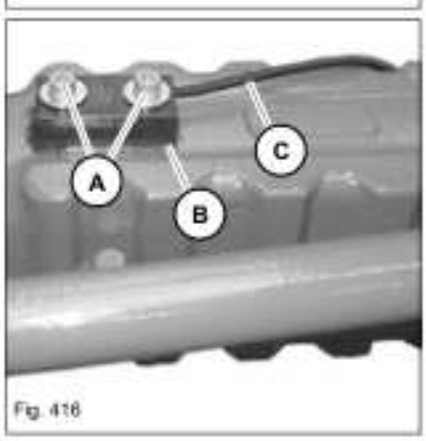


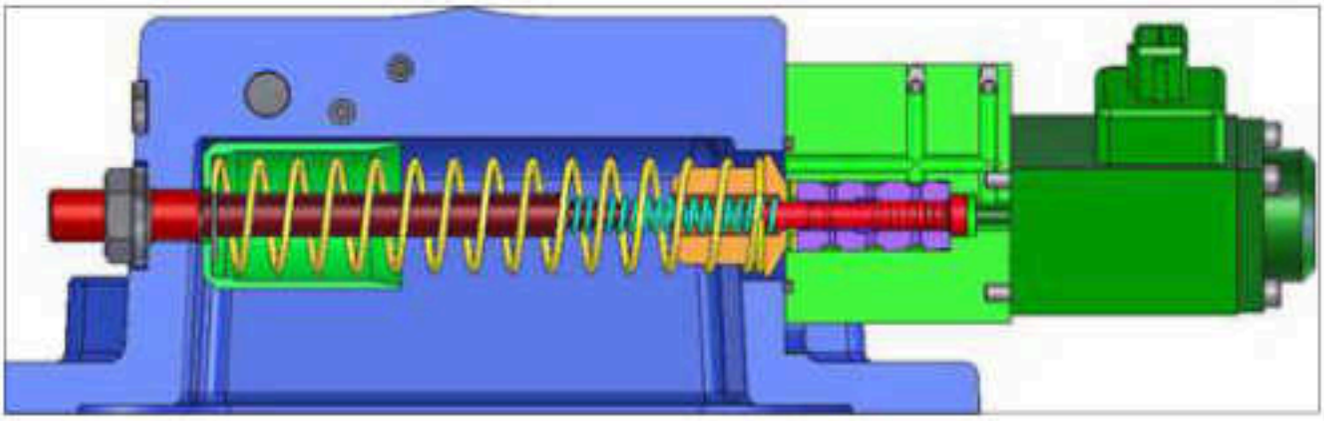
Fig. 416

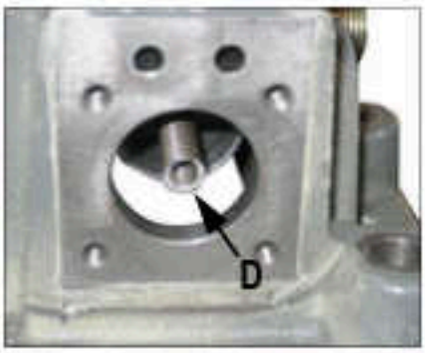
3. Remove screws **A**.
4. Cut open glue line **B**.
5. Carefully loosen the sensor from the installation surface.

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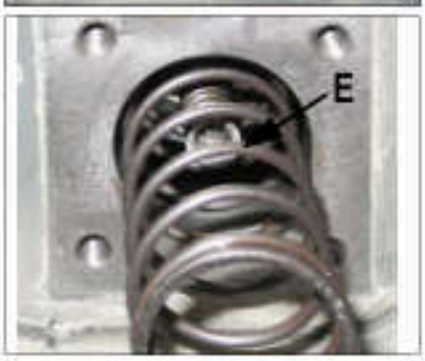
Installing the pressure regulator on the control cover

Pressure regulator and proportional valve (overview)

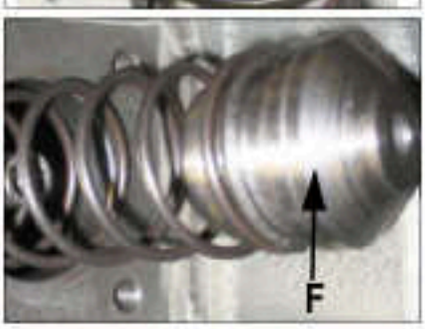




1. Install start spring **D** on the set screw



2. Install spring **E** of the position indication



3. Install spring seat **F**



4. Install pressure regulator **G**
   - ➥ Ensure that it is placed in the correct position

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Replacing the filter cartridge

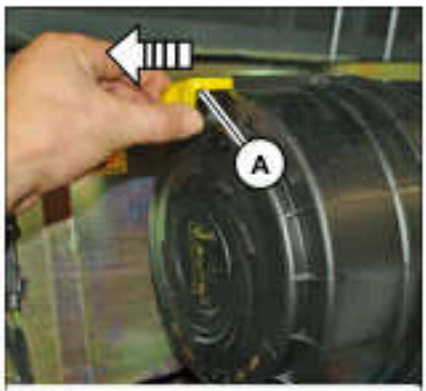
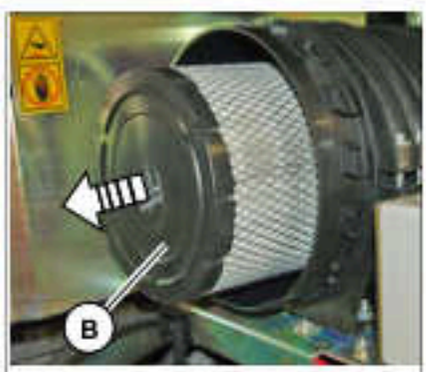


Fig. 61:


Fig. 62:



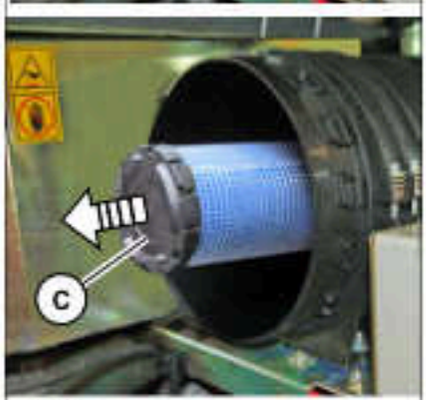


Fig. 63:

NOTICE

In order to avoid damage to the engine due to dirty intake air, bear in mind the following:

- ► Do not clean the air-filter elements with compressed air or a brush.
- ► Replace the air-filter elements when the indicator light illuminates.
- ► Never reuse damaged air-filter elements.
- ► Ensure cleanliness in the entire filter area when replacing the air-filter elements!
- ► Do not operate the engine without the air-filter elements.

Replacing the filter cartridge and safety cartridge:

1. Stop the engine.
2. Apply the parking brake.
3. Disengage the starter and remove the starting key.
4. Open the engine cover.
5. Pull lock **A** on the housing cover outward.
6. Turn the housing cover anticlockwise.
7. Remove the housing cover.
8. Carefully remove filter cartridge **B** with slightly turning movements.
9. In addition, every 3rd time the filter is replaced, carefully remove the safety cartridge **C** with slightly turning movements.
10. Ensure that all the dirt (dust) inside the filter housing and the housing cover has been removed.
11. Insert a new safety cartridge **C** into the filter housing.
12. Insert a new filter cartridge **B** into the filter housing.
13. Position the housing cover (ensure that it is properly seated) and press lock **A**.

NOTICE

Air-filter elements degrade prematurely when in service in acidic air for longer periods of time.

- ► This risk is present, for example, in acid production facilities, steel and aluminium mills, chemical plants and other nonferrous-metal plants.
- ► Replace air-filter elements every 500 service hours at the latest regardless of the dirt indicator!

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