2 Specifications

2.1 Chassis

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3.3 Maintenance plan (overview)

Work description

For service and maintenance work on the attachment, please refer to the operation and maintenance manual of the attachment manufacturer as well.

	Maintenance plan/service hours (s/h)								
	Service work (daily)	Every 50 s/h	Every 250 s/h	Every 500 s/h	Every 1000 s/h once a year	Every 1500 s/h	Every 3000 s/h or 5 years max.	Customer	Authorized workshop
Fluid and filter changes ( ):									
Perform the following oil and filter changes (check oil levels after test run):									
• First engine oil [1] change after 50 s/h, then every 500 s/h		●		●					●
• First engine oil filter [2] change after 50 s/h, then every 500 s/h		●		●					●
• First fuel filter [3] change after 50 s/h, then every 500 s/h		●		●					●
• Fuel prefilter (from serial number DC01288)				●					●
• Air filter element as indicated by indicator light								●	
• Coolant (or replace every 2 years)					●				●
• Water separator					●				●
• First hydraulic oil filter insert [4] change after 50 s/h, then every 500 s/h		●		●					●
• Hydraulic oil					●				●
• Hydraulic oil tank breather					●				●
• First gearbox oil [5] change after 250 s/h, then every 1000 s/h			●		●				●
• Track case oil (first replacement after 500 s/h, then every 1000 s/h)				●	●				
Inspection work ( ):									
Check the following material. Refill if necessary:									
• Engine oil	●							●	
• Engine coolant	●							●	
• Hydraulic oil	●							●	
• Gearbox oil[6]		●						●	
Clean water ducts [7]					●				●
Check engine/hydraulic oil radiator and air conditioning for dirt. Clean if necessary	●							●	
Check cooling systems, heating and hoses for leaks and damage (visual check)	●							●	
Replace the cab filter for heating or air conditioning (air conditioning system option)				●					●
Air filter (damage)	●							●	

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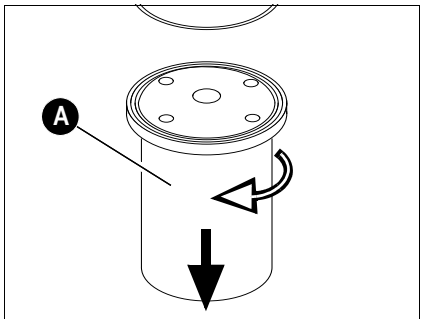


Fig. 7: Unscrewing the fuel filter

☞ *Change fuel filter* **6**/**A** *as follows:*

- Close the fuel feed line with the stop cock on the fuel filter.
- Thoroughly clean the outside surfaces of fuel filter **6**/**A**.
- Place a suitable container under the filter.
- Slacken and unscrew fuel filter cartridge using a commercially available tool.
- Collect the fuel as it drains.

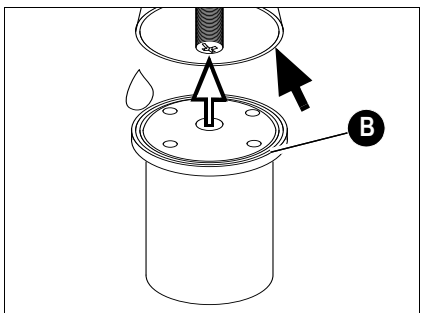


Fig. 8: Cleaning the sealing surface and oiling the gasket

- Clean sealing surface B of the filter carrier.
- Lightly oil the rubber gasket of the new filter cartridge or apply a thin coat of clean diesel fuel to it.
- Screw on the cartridge by hand until the gasket makes contact.

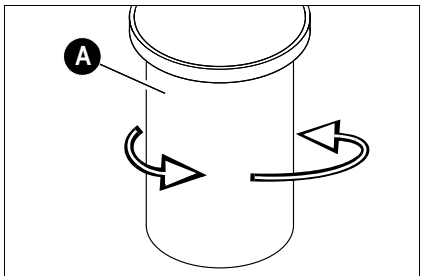


Fig. 9: Tightening the fuel filter

- Tighten the fuel filter cartridge by turning it a further half revolution.
- Bleed the fuel system – *see Bleeding the fuel system* on page 3-12.
- Make a test run – and check for tightness.
- Dispose of the old fuel filter cartridge by an ecologically safe method.

Changing the fuel prefilter (from serial no. DC01288)

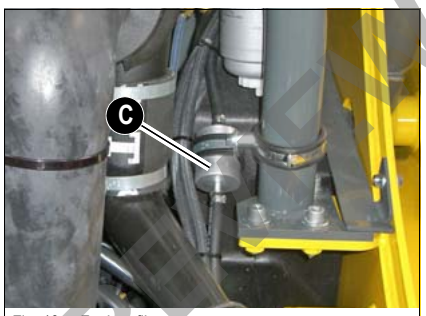


Fig. 10: Fuel prefilter

☞ *Raise the cab* – *see chapter 1.14 Raising or lowering the cab on page 1-16.*

☞ *Thoroughly clean the area around fuel prefilter* ***C***.

☞ *Pinch off the fuel supply with a suitable tool.*

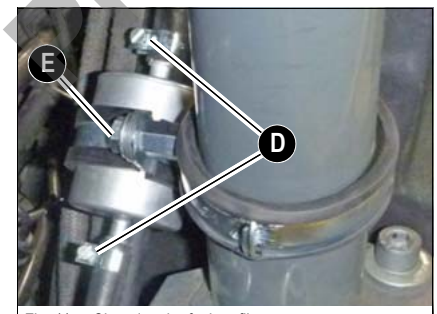


Fig. 11: Changing the fuel prefilter

☞ *Place a suitable container under the filter.*

☞ *Slacken clamps* ***D*** *with a suitable tool and remove the fuel lines.*

☞ Use a suitable container to collect the fuel as it drains.

☞ *Slacken fastening screw* ***E*** *of the clamp and remove the fuel prefilter.*

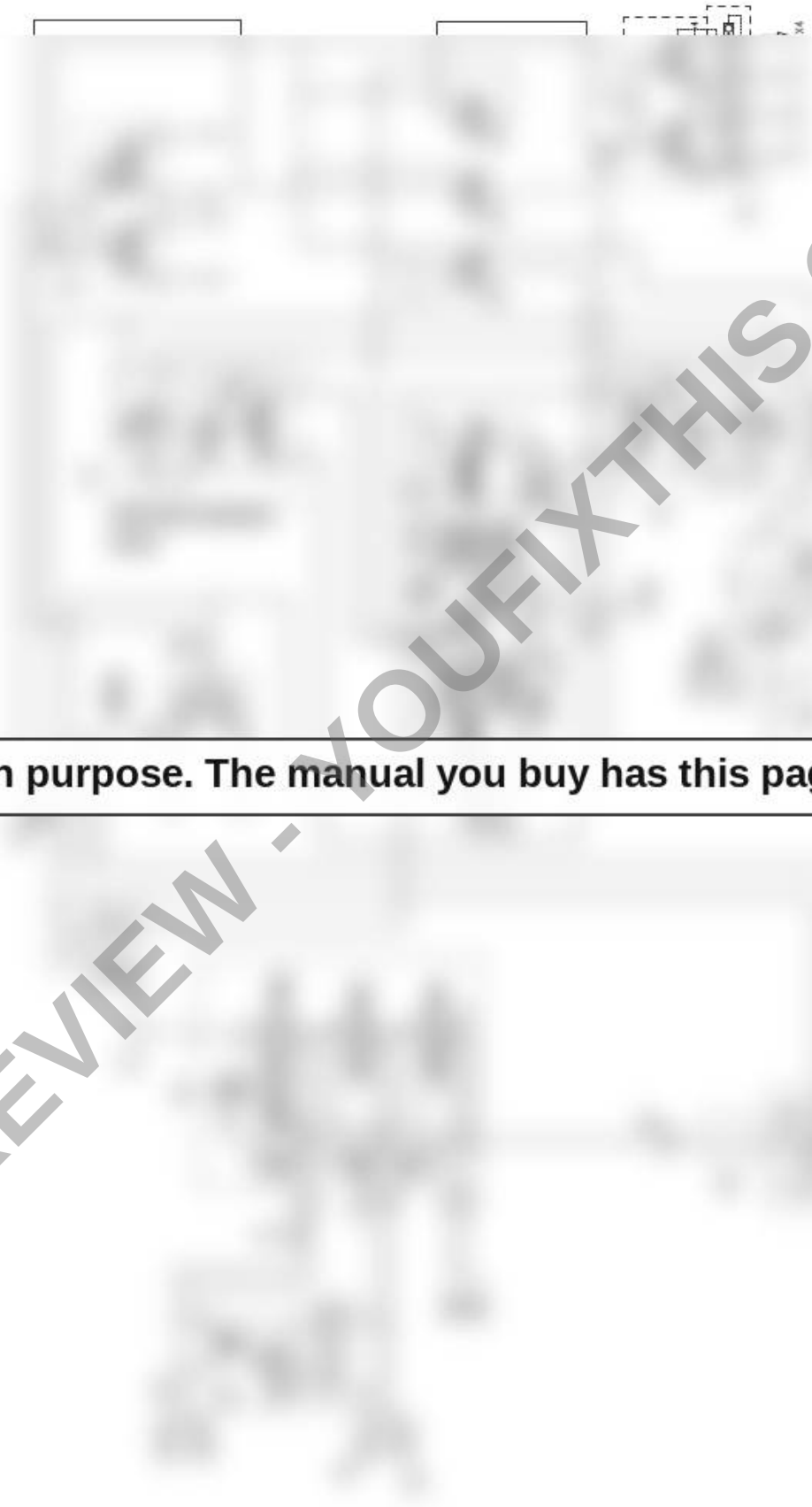
☞ *Install the new fuel prefilter in reverse order.*

☞ *Remove the tool with which the fuel supply has been pinched off.*

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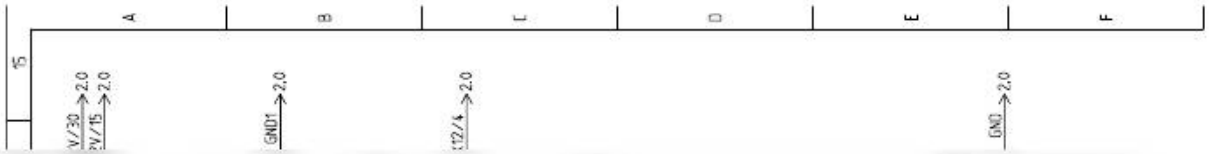
5.11 Hydraulics diagram ISO standard (901s)



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4.9 Compression pressure



Checking and adjusting

☞ *Stop the engine.*

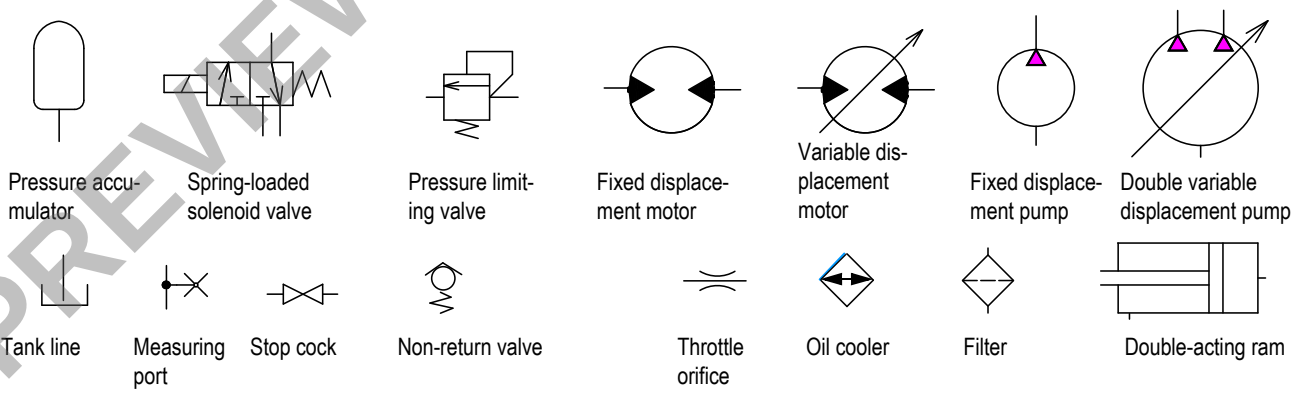
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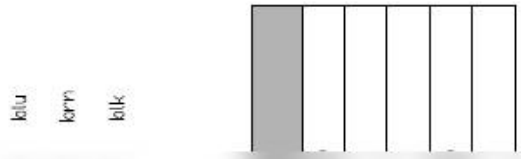
Hydraulics diagram – legend (901s)

Pos.	Designation
1	Diesel engine
3	Double variable displacement pump
4	Twin gear pump
6	Hydraulic motors
7	Right-hand joystick (ISO controls, hydraulics unit only)
8	Left-hand joystick (ISO controls, hydraulics unit only)
15	Work hydraulics main valve block (standard without Carry Over)
17	Internal throttle valve
20	Parallel bucket lift valve
22	Auxiliary hydraulics pilot valve (auxiliary hydraulics pedal)
23	3/2 directional valve cartridges with housings (safety valves)
26	Bladder type accumulator (accumulator boost pressure)
29	Distributing block with brake (brake valve)
30	Distributing block
31	Breather filter with screen
32	Temperature switch
33	Radiator
34	Fan blade
35	Oil filter
38	Pressure switch (brake valve ON/OFF)
39	Pressure switch
42	Pressure switch
43	Left + right-hand loader unit rams
44	Right-hand bucket ram
45	Left-hand bucket ram
48	Pilot control filter
49	Non-return valve



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