5.3 Wiring

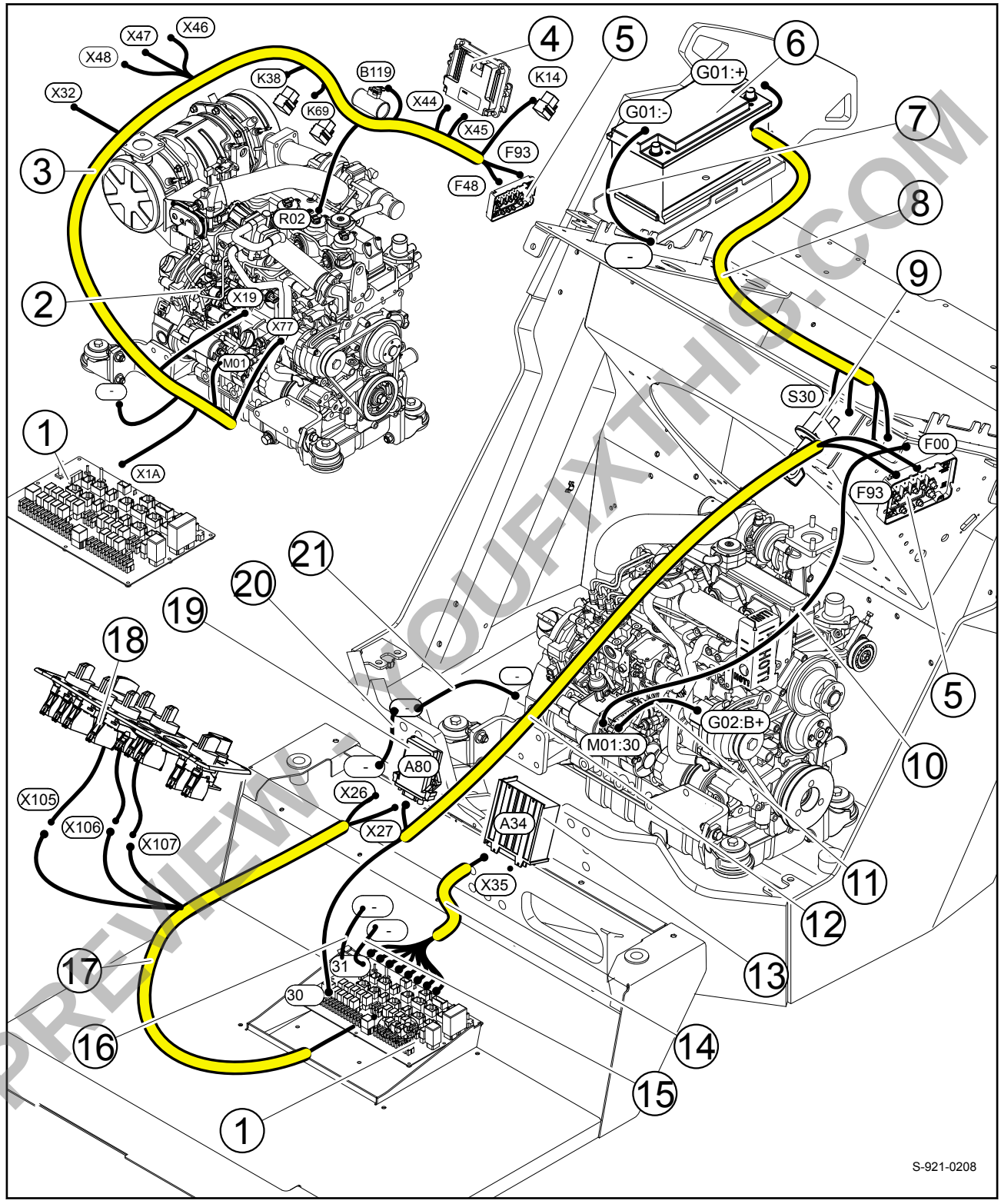


Fig. 78

1 Power board
2 Diesel engine

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4.3 Hydraulic system

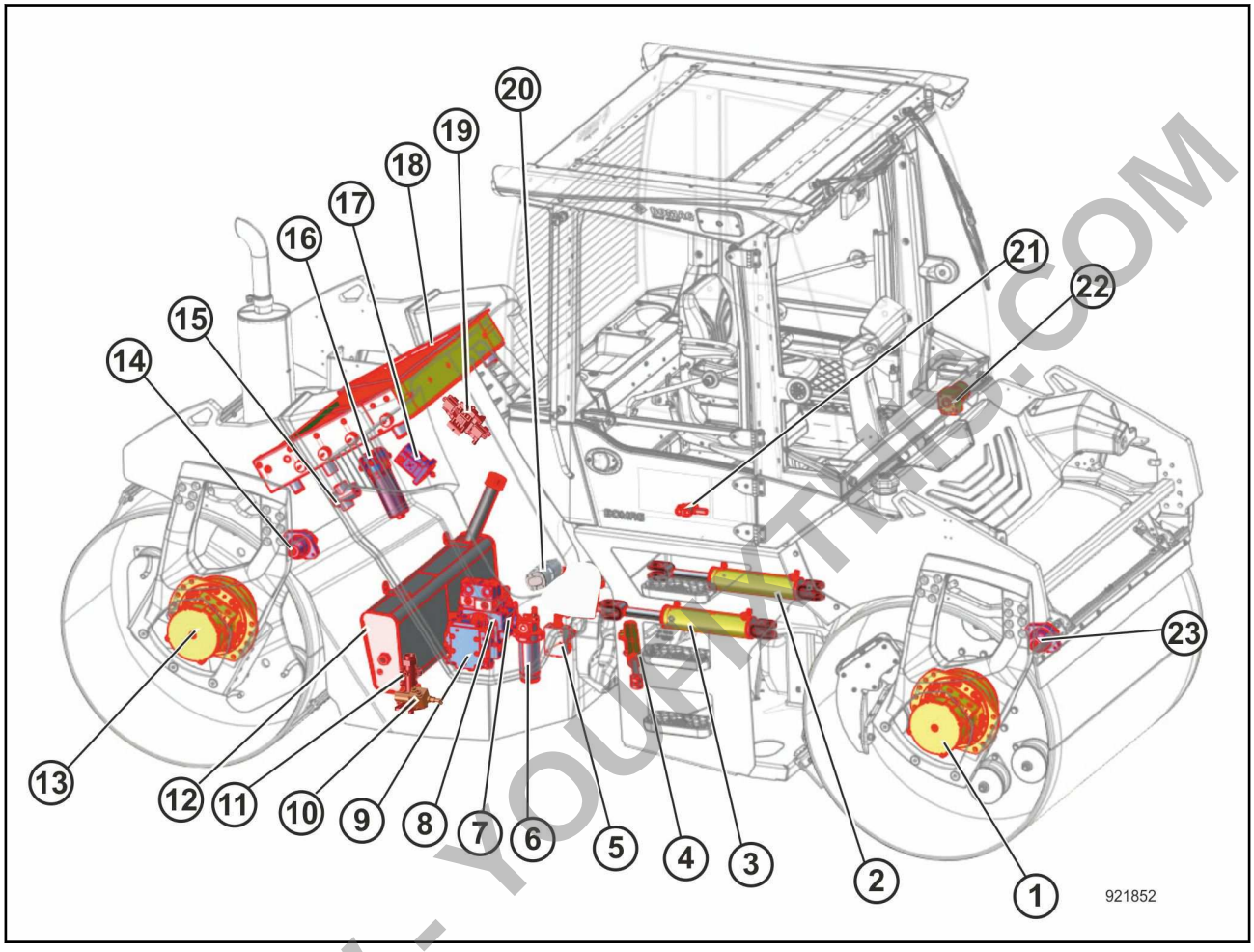


Fig. 61

1 Front travel motor
2 Steering cylinder, left
3 Steering cylinder, right
4 Crabwalk cylinder
5 Solenoid valve for brake, Y04
6 Charge circuit filter
7 Travel pump
8 Vibration pump for front drum
9 Vibration pump for rear drum
10 Solenoid valve for travel speed range selection, Y197 (not used in BW 161)
11 Manifold block for return flows
12 Hydraulic oil tank
13 Rear travel motor
14 Rear vibration motor
15 Thermostat
16 Return line filter
17 Fan motor
18 Hydraulic oil cooler
19 Solenoid valve for crabwalk, solenoid valve for edge compression unit and solenoid valve for chip spreader[optional equipment]
20 Tandem gear pump, steering, charge and fan pump

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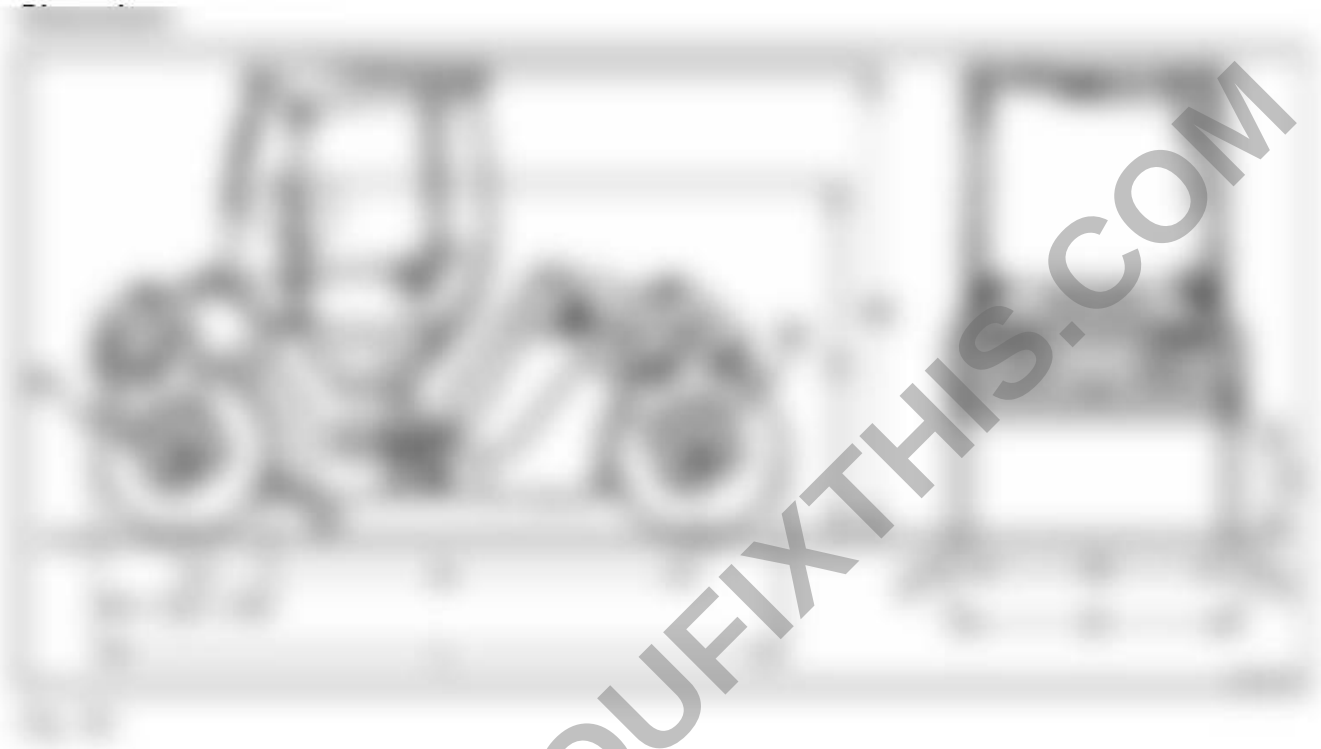
13 Troubleshooting

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3.1 Technical data, BW 190 AD-5

3.1.1 Technical data



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5.27 Inspection and maintenance work

5.27.1 Maintenance Table

No.	Maintenance works	Page
	Every 500 operating hours	
5.27.2.1	*Servicing the battery, checking the main battery switch*	*195*
	As required	
5.27.3.1	*Battery service during prolonged machine downtimes*	*196*

5.27.2 Every 500 operating hours

5.27.2.1 Servicing the battery, checking the main battery switch

5.27.2.1.1 Battery service

Maintenance free batteries also need care. Maintenance free only means that the fluid level does not need to be checked.

Every battery has a self-discharge, which may, if not checked occasionally, even cause damage to the battery as a result of exhaustive discharge.

Exhausted batteries (batteries with formation of sulphate on the plates) are not covered under warranty!

Protective equipment:
- Working clothes
- Protective gloves
- Safety goggles

1. Park the machine in secured condition ↬ *Chapter 1.3.4 „Parking the machine in secured condition“ on page 59*.
2. Remove the battery cover.

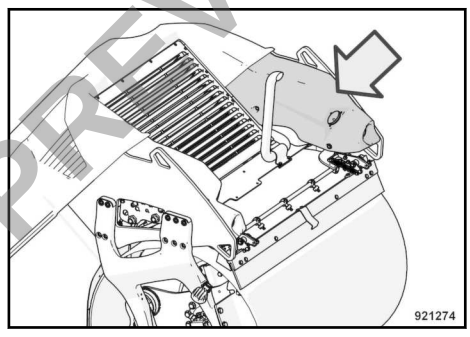


Fig. 179

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6.9 Removing and installing the thermostat

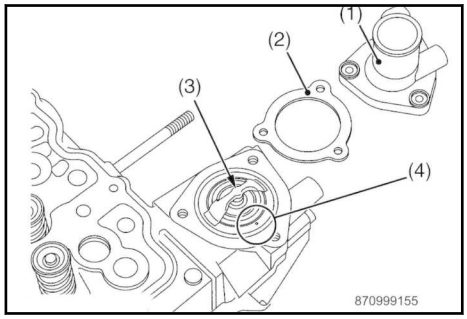


Fig. 226

1 Thermostat cover
2 Thermostat cover seal
3 Thermostat
4 Bore

Removal

- Unscrew the thermostat cover fastening screws and take off the thermostat cover (1).
- Remove the thermostat (3).

For assembly

- Assemble the thermostat unit (3) with the holes (4) facing towards the front cover.

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Tightening torques for hydraulic fittings with metric thread - series “L” (pressures up to 250 bar)

Thread	Spanner width	Tightening torque [Nm]
M12 x 1.5	14	15
M14 x 1.5	17	20
M16 x 1.5	19	30
M18 x 1.5	22	35
M22 x 1.5	27	65
M26 x 1.5	32	80
M30 x 2	36	130
M36 x 2	41	160
M45 x 2	50	200
M52 x 2	60	250

Tightening torques for hydraulic fittings with metric thread - series “S” (pressures up to 400 bar)

Thread	Spanner width	Tightening torque [Nm]
M14 x 1.5	17	14
M16 x 1.5	19	25
M18 x 1.5	22	27
M20 x 1.5	24	48
M22 x 1.5	27	55
M24 x 1.5	30	65
M30 x 2	36	110
M36 x 2	46	140
M42 x 2	50	180
M52 x 2	60	220

Tightening torques for hydraulic fittings with UNF-thread (Unified Fine Thread)

Thread	Spanner width	Tightening torque [Nm]
$^{7}/_{16}$″ - 20	14	15
$^{1}/_{2}$″ - 20	17	20
$^{9}/_{16}$″ - 18	19	27
$^{3}/_{4}$″ - 16	22	55
$^{7}/_{8}$″ - 14	27	80
1 $^{1}/_{16}$″ - 12	32	110

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The flushing valve is fitted with a downstream 16 bar pressure relief valve. This valve makes sure that only a certain quantity of hydraulic oil is flushed out. The oil flows back to the hydraulic oil tank and is immediately replaced by oil from the charge circuit.

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The LEDs on the relay bases light when U_{bat} is applied to the relay coils.

Example: LED D145 on relay K145

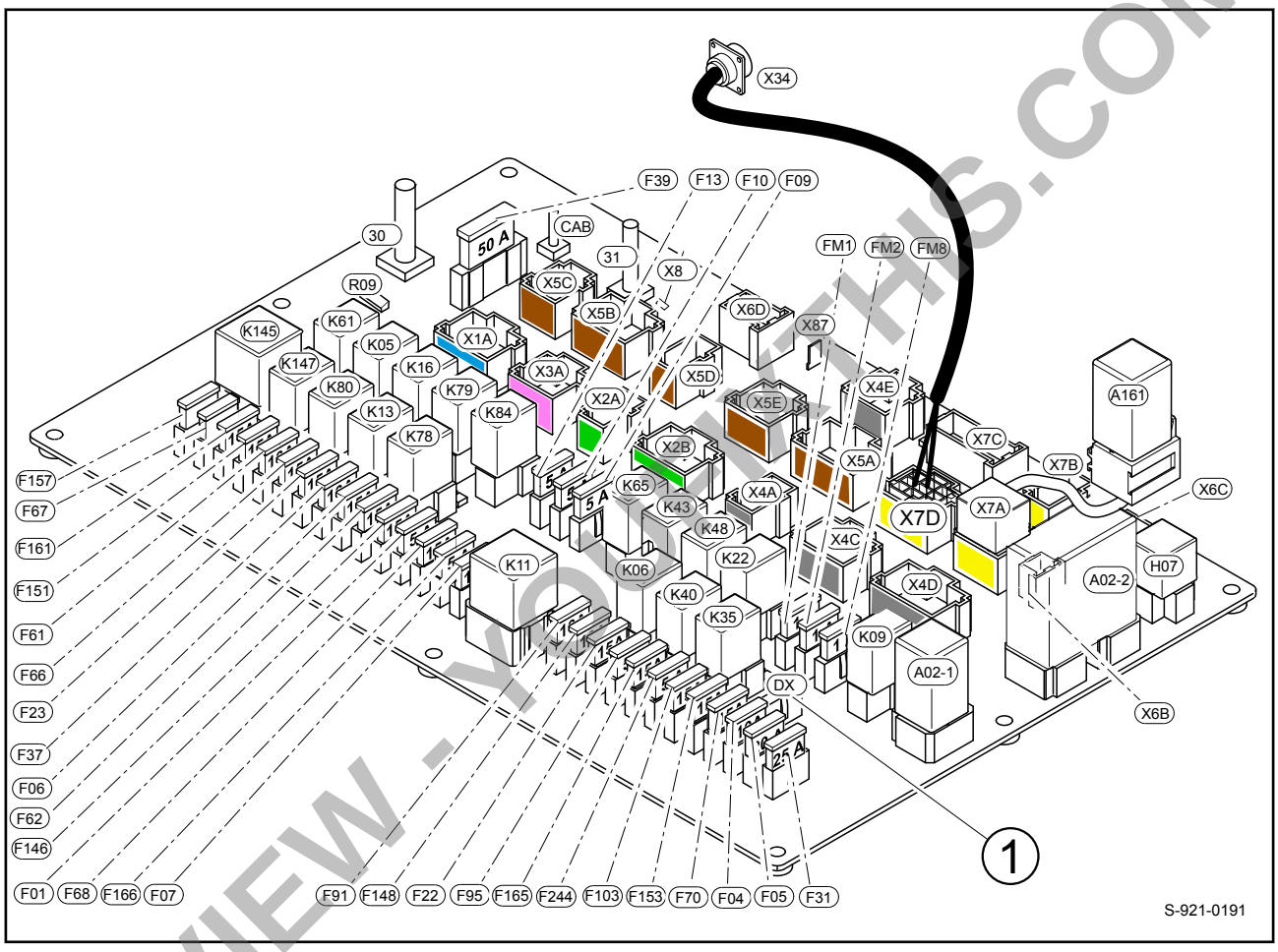


Fig. 95

1 Fuse test cap
30 Potential 30, battery
31 Potential 31, ground
A02-1 Flasher encoder
A02-2 Flasher encoder, chip spreader option
A161 Gateway
CAB Potential, cabin
H07 Warning buzzer for malfunctions
K05 Relay for start current
K06 Relay for front working head lights
K09 Relay for air conditioning
K11 Relay for potential 30 to 15
K13 Relay for warning horn
K16 Relay for working head lights, front
K22 Relay for engine solenoid

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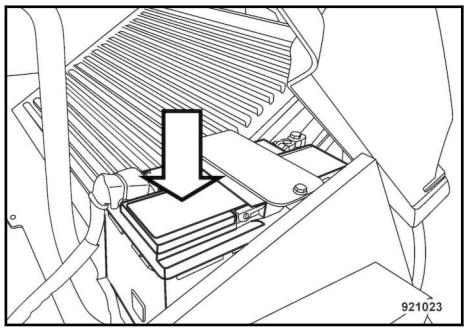


Fig. 180

3. Remove the battery and clean the battery compartment.
4. Clean the outside of the battery.
5. Clean battery poles and pole clamps and grease them with pole grease (Vaseline).
6. Install the battery and check the battery fastening.
7. Check the condition of the vibration insulation mats, replace if necessary.
8. On serviceable batteries check the acid level, if necessary top up to the filling mark with distilled water.

5.27.2.1.2 Checking the main battery shutoff

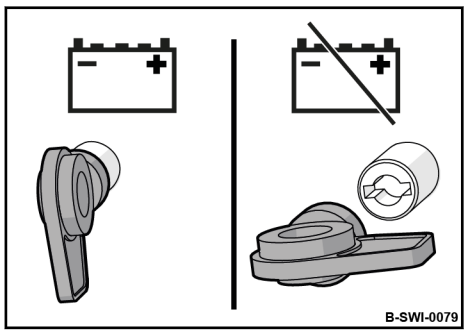


Fig. 181

1. Turn the main battery switch counter-clockwise and pull it out.
2. Check by turning the ignition key, whether the battery is disconnected from the electric system of the machine.

5.27.3 As required

5.27.3.1 Battery service during prolonged machine downtimes

WARNING!

Danger of injury caused by exploding gas mixture!

- Remove the plugs before starting to recharge the battery.
- Ensure adequate ventilation.
- Smoking and open fire is prohibited!
- Do not lay any tools or other metal objects on the battery.
- Do not wear jewellery (watch, bracelets, etc.) when working on the battery.
- Wear your personal protective equipment (protective gloves, protective clothing, goggles).

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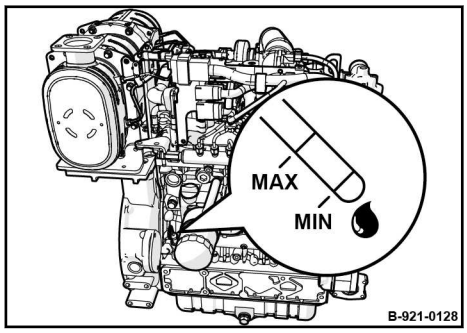


Fig. 250

12. After a short test run check the oil level on the dipstick; if necessary, top up to the top dipstick mark.
13. Check oil filter cartridge and drain plug for leaks.
14. Dispose of oil and filter in an environmentally friendly way.

6.11.5.2 Replacing the fuel filter, bleeding the fuel system

6.11.5.2.1 Preliminary remarks

NOTICE!

Danger of engine damage!

- Ensure strict cleanliness! Thoroughly clean the area around the fuel filters.
- Air in the fuel system causes irregular running of the engine, a drop in engine power, stalls the engine and makes starting impossible.
- After work on the fuel system bleed the system, perform a test run and check for leaks.
- Additional bleeding of the fuel system by a 5 minute test run in idle speed or low load is mandatory.

1. Park the machine in secured condition ↳ *Chapter 1.3.4 „Parking the machine in secured condition“ on page 59*.

6.11.5.2.2 Replacing the fuel filter and the fuel pre-cleaner

Protective equipment:
- Working clothes
- Protective gloves

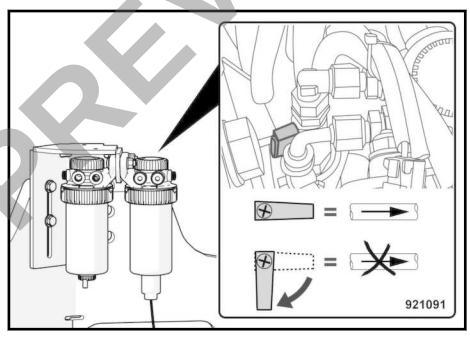


Fig. 251

1. Close the shut-off valve again (lever across the flow direction).

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The return flow passes through a 12 µ fine filter with **bypass valve**. These open at a pressure differential (pressure difference between filter inlet and filter outlet) of Δp = 3.5 bar. This pressure differential depends on the filter contamination and the viscosity of the hydraulic oil. The hydraulic return flow filtration protects the machine optimally in case of single component failures.

Service brake

During operation the closed hydrostatic travel circuit has the function of a service brake. When the travel lever is returned towards neutral position, the displacement of the travel motor is adjusted towards zero accordingly and the machine is hydraulically braked.

Parking brake

The travel motor integrated, hydraulic released multi-disc brake has the function of a parking brake. It is permanently closed by spring force and opened by feeding in pressure oil.

It closes in neutral position of the travel lever and when the engine is stopped.

The drive shaft of each travel motor carries an additional hydraulically released spring accumulator multi-disc parking brake. When starting the engine and opening the brake valve the spring accumulator multi-disc parking brake is released by charge pressure and the rotation of the travel motors can be transferred by the drive shaft. When closing the brake valve or shutting down the engine the brakes will automatically be closed by the dropping charge pressure and the spring loaded brake discs.

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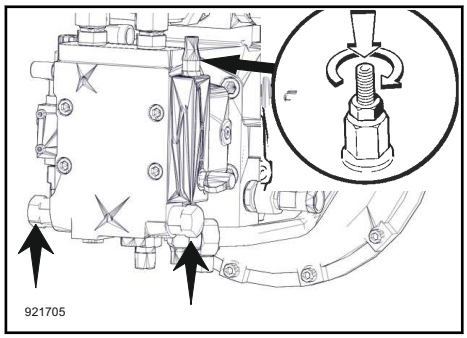


Fig. 373

3. Turn the setscrew of the pressure override completely in to block the valve.
4. Apply the brake.
5. Start the engine and run it with maximum speed.

NOTICE!

Perform the following pressure test for max. 3 seconds, otherwise pump damage caused by overheating.

Nominal value for start-up pressure

see technical data, "vibration pump, start-up pressure".

6. Switch on vibration at high or low frequency and read the start-up pressure on the pressure gauge.

Evaluation of test:

If the nominal value is only reached for one frequency, clean or replace the valve (arrows) if necessary.

If the nominal value is not reached for both frequencies check the travel pump, replace if necessary.

Adjusting the pressure override

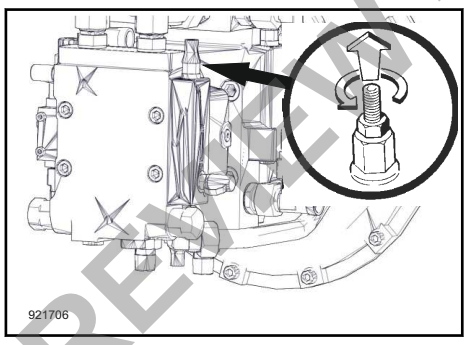


Fig. 374

1. Turn the setscrew back out again, so that the start-up pressure for the vibrator shafts is limited to the nominal value.

Nominal value for start-up pressure

see technical data, "vibration pump, start-up pressure".

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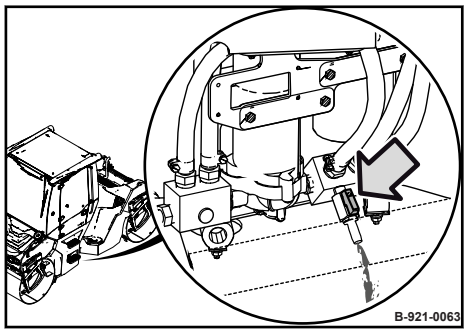


Fig. 472

3. Close the drain valve.

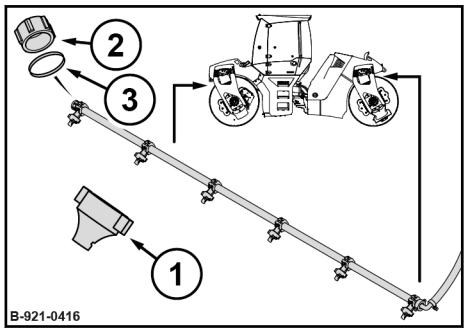


Fig. 473

4. Screw the caps (2) back onto all spray bars with new seal rings (3).
5. Unscrew all spray nozzles (1).
6. Fill in water *Chapter 8.2.2.1 „Checking the water level, topping up“ on page 383*.

8.2.3.3 Cleaning the emulsion filter

Protective equipment:
- Working clothes
- Protective gloves

1. Park the machine in secured condition *Chapter 1.3.4 „Parking the machine in secured condition“ on page 59*.
2. Open the shut-off valve (handle in flow direction).
3. Drain the emulsion completely off and catch it.
4. Switch the emulsion spraying system on for a moment to drain the tank completely.
5. Close the shut-off valve again (lever across the flow direction).

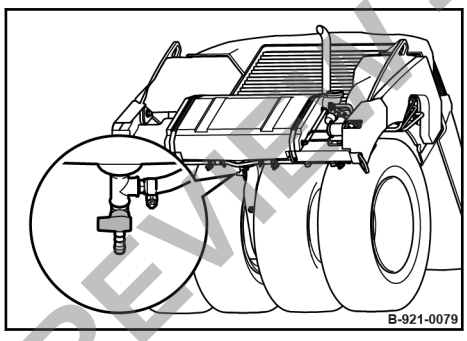


Fig. 474

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10.1.2 Only BW 190 and 202 machines, change rubber buffers of AD drum

10.1.2.1 Removing the rubber buffers

Parking the machine in secured condition

↳ *Chapter 1.3.4 „Parking the machine in secured condition“ on page 59*.

Lifting the machine with a jack

1. Lift the machine up, until the rubber buffers are unstressed ↳ *Chapter 1.3.3.3 „Lifting the machine with a jack“ on page 57*.

⇨

The drum must not be lifted off the ground.

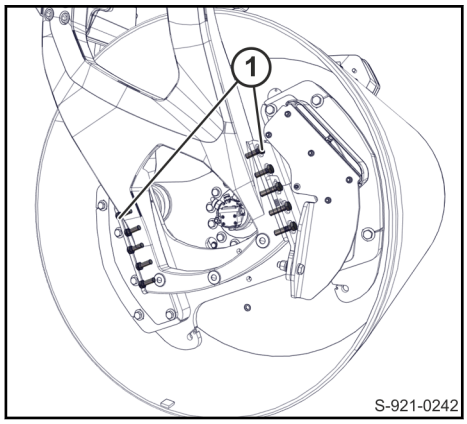


Fig. 529: Vibration motor side

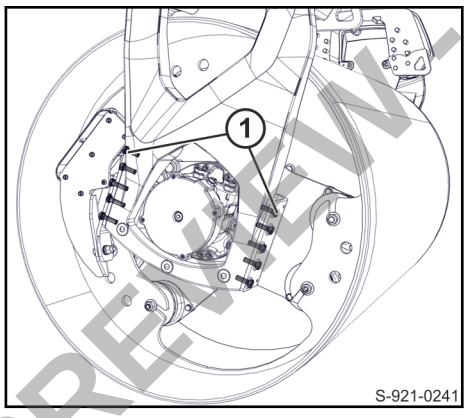


Fig. 530: Travel motor side

2. Loosen the screws (1) ↳ Fig. 529 and ↳ Fig. 530 on both drum sides.

Rubber buffers on travel motor side

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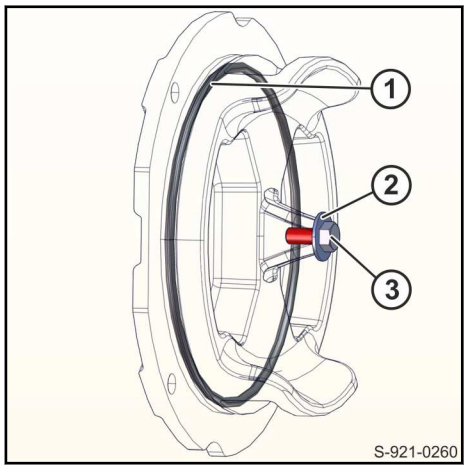


Fig. 643: Plastic cover

4. Mount the O-ring (1).
5. Install the bolt (3) and washer (2).

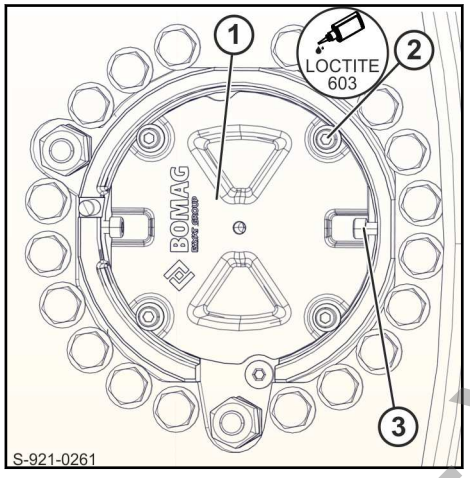


Fig. 644: Plastic cover

6. Mount the plastic cover (1) with the cheese head screws (2) and washers.
   ⇨ Insert the cheese head screws (2) with LOCTITE 603.
7. Install the setscrews with counter nuts (3).

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Tensioning the toothed belt

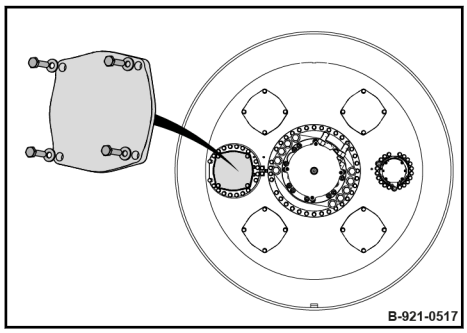


Fig. 763

10. Disassemble the covering.

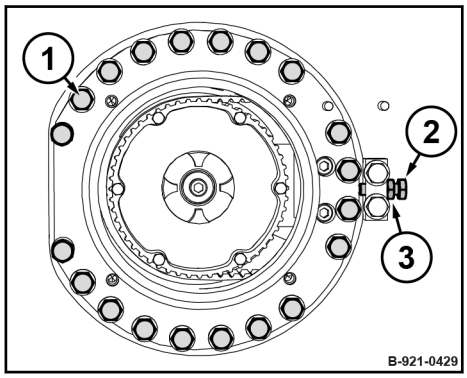


Fig. 764

11. Slightly slacken all fastening screws (1).

12. Loosen the counter nut (3) and adjust the toothed belt tension to the desired value by tightening the setscrew (2).

⇨ When screwing in the setscrew, the exciter shaft is displaced towards the outside and the toothed belt is tightened.

13. Tighten the counter nut (3).

14. Tighten at least four fastening screws (1).

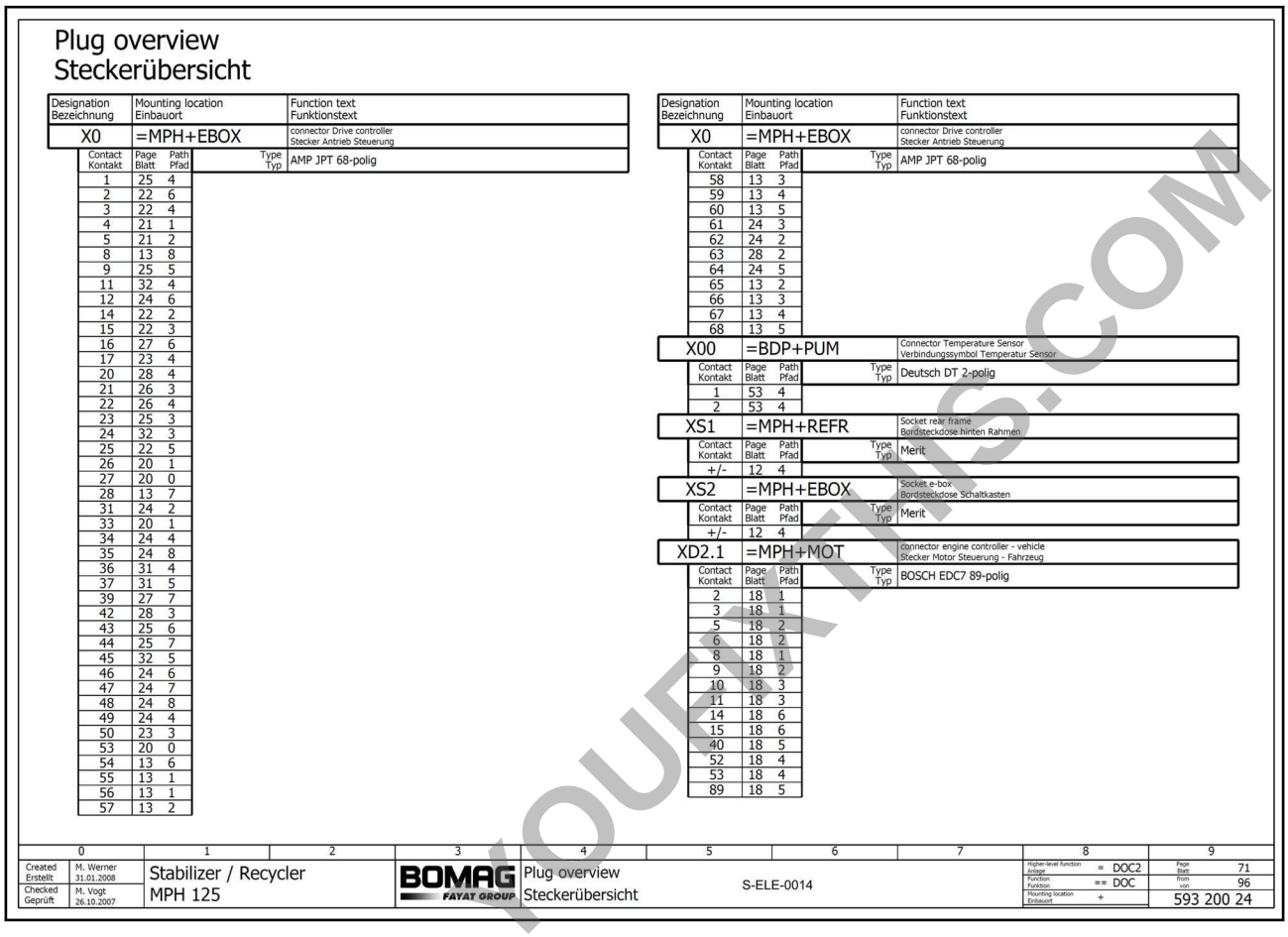
15. Check the belt tension again, correct if necessary.

16. Tighten all fastening screws (1).

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Overview of plugs



Plug overview
Steckerübersicht

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X0	=MPH+EBOX	connector Drive controller Stecker Antrieb Steuerung

Type Typ: AMP JPT 68-polig

Contact Kontakt	Page Blatt	Path Pfad
1	25	4
2	22	6
3	22	4
4	21	1
5	21	2
8	13	8
9	25	5
11	32	4
12	24	6
14	22	2
15	22	3
16	27	6
17	23	4
20	28	4
21	26	3
22	26	4
23	25	3
24	32	3
25	22	5
26	20	1
27	20	0
28	13	7
31	24	2
33	20	1
34	24	4
35	24	8
36	31	4
37	31	5
39	27	7
42	28	3
43	25	6
44	25	7
45	32	5
46	24	6
47	24	7
48	24	8
49	24	4
50	23	3
53	20	0
54	13	6
55	13	1
56	13	1
57	13	2

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X0	=MPH+EBOX	connector Drive controller Stecker Antrieb Steuerung

Type Typ: AMP JPT 68-polig

Contact Kontakt	Page Blatt	Path Pfad
58	13	3
59	13	4
60	13	5
61	24	3
62	24	2
63	28	2
64	24	5
65	13	2
66	13	3
67	13	4
68	13	5

X00	=BDP+PUM	Connector Temperature Sensor Verbindungssymbol Temperatur Sensor

Type Typ: Deutsch DT 2-polig

Contact Kontakt	Page Blatt	Path Pfad
1	53	4
2	53	4

XS1	=MPH+REFR	Socket rear frame Bordsteckdose hinten Rahmen

Type Typ: Merit

Contact Kontakt	Page Blatt	Path Pfad
+/-	12	4

XS2	=MPH+EBOX	Socket e-box Bordsteckdose Schaltkasten

Type Typ: Merit

Contact Kontakt	Page Blatt	Path Pfad
+/-	12	4

XD2.1	=MPH+MOT	connector engine controller - vehicle Stecker Motor Steuerung - Fahrzeug

Type Typ: BOSCH EDC7 89-polig

Contact Kontakt	Page Blatt	Path Pfad
2	18	1
3	18	1
5	18	2
6	18	2
8	18	1
9	18	2
10	18	3
11	18	3
14	18	6
15	18	6
40	18	5
52	18	4
53	18	4
89	18	5

Created Erstellt	M. Werner 31.01.2008	Stabilizer / Recycler MPH 125	BOMAG FAYAT GROUP	Plug overview Steckerübersicht	S-ELE-0014	Higher-level function Anlage = DOC2	Function Funktion == DOC	Mounting location Einbauort +	Page Blatt 71	from von 96	593 200 24
Checked Geprüft	M. Vogt 26.10.2007										

Fig. 840: Example: Plug overview X0

The overview of plugs contains all plugs used in the circuit diagram.

The following information is listed for each plug:

- Contact numbering
- Structuring symbols
- Function text
- Use in wiring diagram.

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PIN data collector	Signal description	Nominal values (voltage / current)
		Fuel tank full ☞ ?? V
X27:3 Black	Input **hydraulic oil temperature** (only AD- 5)	---
X27:4 Black	Voltage supply for monitoring of water separation (PIN X27:9)	Voltage supply OK. ☞ approx.12 V No voltage supply ☞ 0 V
X27:5 Black	Ground connection	0V (measured against ground)
X27:6 Black	Interface **CAN-Bus 1** Wire **+**, is used for communication with MESX, ESX, LCD-display and BOP.	Measurement not possible!
X27:7 Black	Interface **CAN-Bus 1** Wire **-**, is used for communication with MESX, ESX, LCD-display and BOP.	Measurement not possible!
X27:8 Black	Voltage supply (permanent voltage)	Control running ☞ approx.12 V Control not running ☞ 0 V
X27:9 Black	Input **Water separation** Current input	If a sufficient amount of water has been separated, a low current flows over the contacts and the water in the separator bowl. This input analyses this current. No water separated ☞ I= 0A Water separated ☞ I∗ 0.03mA
X27:10 Black	Input **hydraulic oil temperature** (only AD- 5)	---
X27:11 Black	Input **water level** (only AD -5) Analog input (resistance)	
X27:12 Black	Not used	---

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FaultLocation	Setup display				
FCode	**FaultDescription**	**Terminal**	**Possible Cause**	**Diag**	**Reac**
8220	Software incompatibility display to machine software		Display software incompatible to machine software Measuring technology is activated, the display cannot show measuring values		3

FaultLocation	BLM Module				
FCode	**FaultDescription**	**Terminal**	**Possible Cause**	**Diag**	**Reac**
9103	Fault: CAN node monitoring bus 1, connected CAN node does not respond, check CAN connection and voltage supply to the node	System	Line breakage in current path Faults on CAN line		1
9143	Fault: CAN node monitoring bus 1, connected CAN node does not send messages, check CAN connection and voltage supply to the node	System	Line breakage in current path Faults on CAN line		
9263	Fault: CAN node monitoring bus 1, missing messages were recognized, check CAN connection and voltage supply to the node	System	Line breakage in current path Faults on CAN line		1
9503	Fault: CAN node monitoring bus 1, internal software fault in node	System			3
9543	Fault: CAN node monitoring bus 1, connected CAN node does not respond, check CAN connection and voltage supply to the node	System	Line breakage in current path Faults on CAN line		3
9583	Fault: CAN node monitoring bus 1, internal undervoltage fault in node	System			3

FaultLocation	Keyboard for immobilizer				
FCode	**FaultDescription**	**Terminal**	**Possible Cause**	**Diag**	**Reac**
9107	Fault: CAN node monitoring bus 1, connected CAN node does not respond, check CAN connection and voltage supply to the node	System	Line breakage in current path Faults on CAN line		1

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13.6 Trouble shooting, air conditioning system

General

- Visual inspection of the complete system for damage.
- Check the compressor mounting bracket on the vehicle engine for tight fit and damage.
- Check the condition, alignment and tightness of the V-belt.
- Check the routing of refrigerant hoses and cables in the area of the vehicle engine and transmission, as well as on the chassis for chafing and rectify any detected faults. Ensure sufficient clearance to hot parts, such as the exhaust; install a protective shield, if necessary.
- Check the routing of refrigerant hoses and cables in the area of the vehicle engine and transmission, as well as on the chassis for chafing and rectify any detected faults. Ensure sufficient clearance to hot parts, such as the exhaust; install a protective shield, if necessary.
- Check the routing of hoses and hoses on the attachment box or in the cabin.
- Check all hose and screw fittings for leaks.
- Check the fastening of the condenser unit.
- Clean the condenser fins, replace the condenser block if damaged fins are found.
- Check the fastening of the evaporator unit.
- Check the function of evaporator and condenser fans.
- Check the electric control panel. If discolorations on conductors are found, these should be replaced and possibly also the corresponding relays.
- Switch on the cooling system and check the refrigerant level.
- Filter/dryer and filter/dryer/fluid container combinations must always be replaced after opening the refrigerant circuit. If these are in service for more than 1 year, there is a risk that they may be clogged by excessive absorption of moisture! The filter/dryer should be replaced in regular intervals.
- Measure the temperature on the evaporator: Measure the intake air temperature - Measure the blow out air temperature - The temperature difference should be at least 8-10 K.
- Measuring the pressure in the refrigerant circuit

13.6.1 Trouble shooting in refrigerant circuit, basic principles

Requirements

For trouble shooting two requirements must be fulfilled:

- Expert knowledge
- technical equipment

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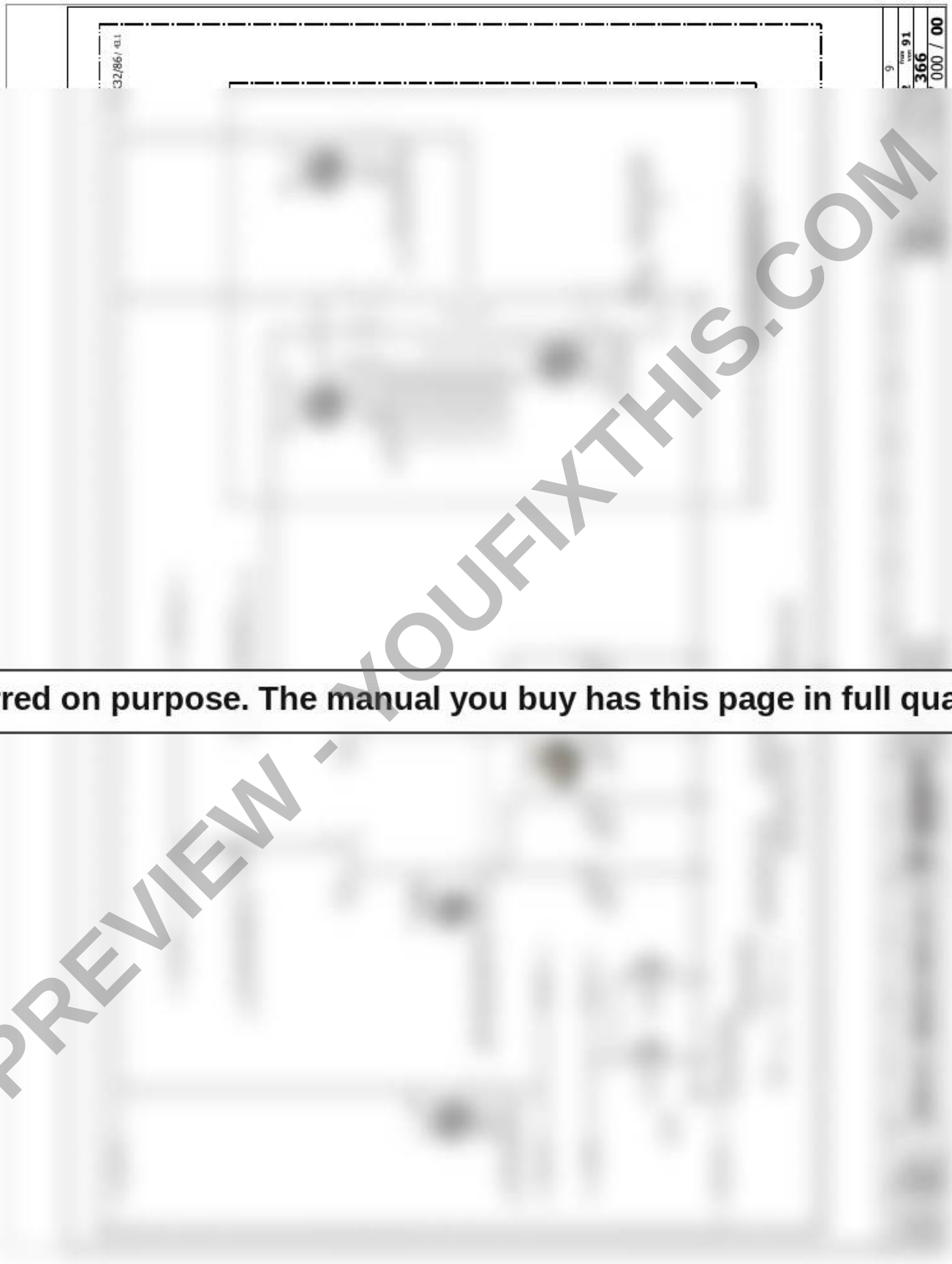
Appendix

A Circuit diagrams

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Circuit diagrams



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