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Travel system



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10 Fault codes of the ESX control

10.1 Overview

Fault code	Fault description
0000 - 0999	General faults / warnings / machine tests
1000 - 1999	Fault in travel system
2000 - 2499	Fault in steering system
2500 - 2999	Fault in remote control
3000 - 4499	Faults in work functions (vibration, attachment plates, rotor, chip spreader)
4500 - 4999	Fault in measuring systems
5000 - 5499	Fault diesel engine
5500 - 5999	Fault hydraulic system
6000 - 6999	Fault anti-theft warning system, localization system, access system, time account, etc.
7000 - 7499	Input of machine codes
7500 - 7899	Input of codes for measuring technology
7900 - 7999	Operating hours, load spectrum, etc.
8000 - 8999	Severe software error [1]
9000 - 9999	Errors of external IO-nodes (joystick, data collector, Dios module, LC-display, etc.) [1]

[1] These faults are not broken down hereunder!

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Fig. 3:

2. Remove the engine solenoid

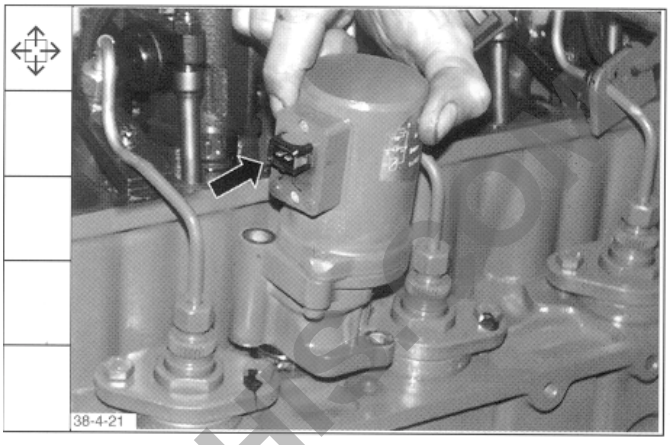


Fig. 4:

3. Insert the pressing device, WILBÄR No. 100 830 carefully into the groove in the governor rod and tighten.

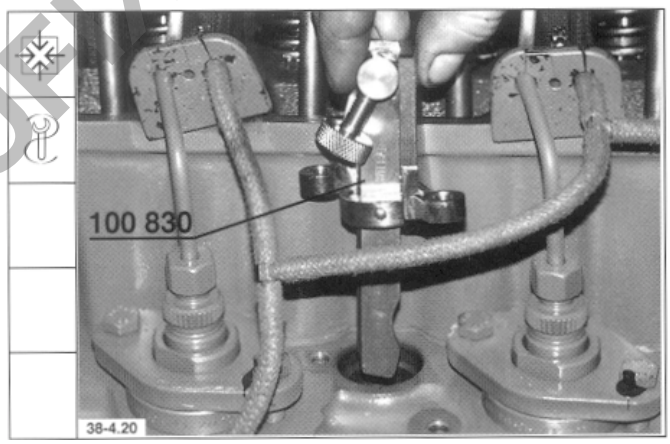


Fig. 5:

4. Turn the knurled fastening screw to press the governor rod to stop position.

Note:

Tighten the knurled fastening screw by hand.

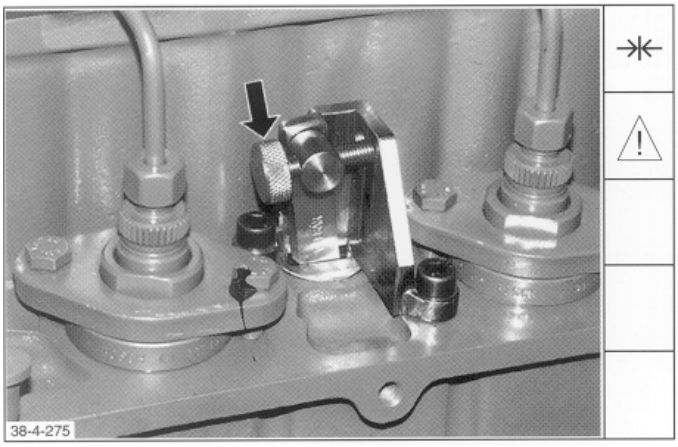


Fig. 6:

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Maintenance table

Maintenance work	Remark	Running-in instructions after 250 operating hours	every 10 operating hours, daily	every 250 operating hours	every 500 operating hours	every 1000 operating hours	every 2000 operating hours	every 3000 operating hours	as required
Check the engine oil level	Dipstick mark		X						
Check the water separator			X						
Check the fuel level			X						
Check the hydraulic oil level	Inspection glass		X						
Check the coolant level	Inspection glass		X						
Check the dust separator			X						
Check the tire pressure				X					
Clean the cooling fins on engine and hydraulic oil cooler				X					
Check the oil level in the drive axle				X					
Check the oil level in the wheel hubs				X					
Check the oil level in the axle reduction gear				X					
Check the oil level in the drum reduction gear				X					
Check the oil level in the vibration bearings				X					
Change engine oil and oil filter cartridge	min. 1x per year				X				
Change the fuel filter cartridge					X				
Drain the sludge from the fuel tank					X				
Service the battery	Pole grease				X				
Change the fuel pre-filter cartridge					X				

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Table of contents

Foreword	**A 1**
Documentation	A 2
General	A 3
New developments	**A 5**
Technical data and adjustment values	**B 1**
Maintenance	C1
Maintenance chart	C2
DEUTZ diesel engine with EMR	**D 1**
Service side	D 2
Starter side	D 3
Lubrication oil circuit	D 4
Coolant circuit	D 5
Fuel system	D 6
EMR	D10
Trouble shooting	D22
Diagnose SERDIA	D24
Checking and adjusting the valve clearance	D26
Assembly of the plug-in injection pump	D28
Engine components	D44
Travel system	**E 1**
Travel pump	E 3
Control	E 7
Charge pressure relief valve	E 8
High pressure relief valve	E 9
Pressure override	E11
Axle drive motor	E14
Drum drive motor	E17
Test and adjustment points, travel system	E19
Trouble shooting travel system	E27

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Foreword and novelties

Reliable construction equipment is of greatest advantage for all parties involved:

- for the customer/user it is a basis for an exact calculation of utilization periods and the completion of projects as scheduled.
- in the rental business it means that the equipment can be reliably used and planned without having to stock a large number of stand-by machines.
- for the manufacturer it means that customers are satisfied, provides him with a good image and gives him a feeling of confidence.

It is BOMAG's philosophy to design and produce the machines with highest possible reliability. This aspect of simple and easy maintenance was one of the key issues when developing and designing the machine:

- the location of components in the machine eases maintenance work,
- the high quality standard of BOMAG is the basis for the considerable extension of the service and maintenance intervals.
- the After Sales Service of BOMAG, including excellent operating and maintenance instruction manuals, high quality training courses and on-site machine demonstrations helps the customer to maintain their machines in good condition over a long period of time.

Permanent training of BOMAG's own service personnel as well as the service personnel of BOMAG Profit Centres and dealers is therefore a general prerequisite for BOMAG's excellent world-wide service.

This program of permanent training is only possible with appropriate and up-to-date training material for trainers as well as persons attending the training courses.

This training manual has not only been written as a support for the professional work of the trainer, but also for the trainees attending these training courses.

The different levels of product training demand, that the training performed by BOMAG, its Profit Centres or its dealers reflects the high quality of the training conducted at the Training Centre at BOMAG in Boppard. For this reason we invested a lot of time in the preparation of these materials .

The structure of this training manual enables us to change or up-date individual chapters in case of alterations to the machine.

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Engine oil pressure sensor B88

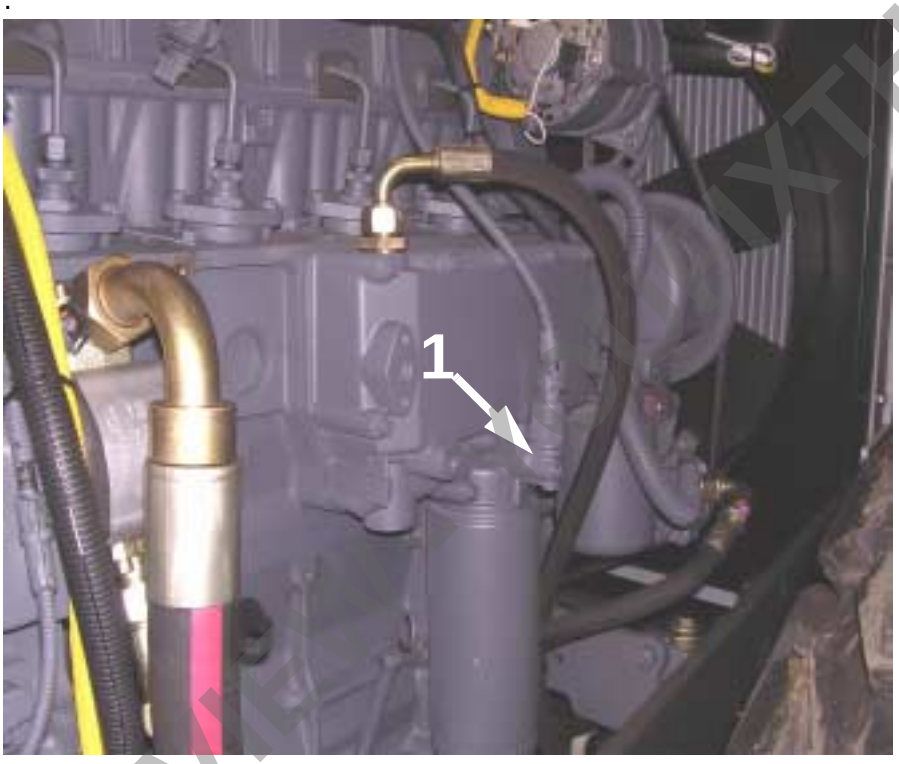
The engine oil pressure sensor is mounted on the engine oil filter housing. The oil pressure is permanently monitored by the EMR.

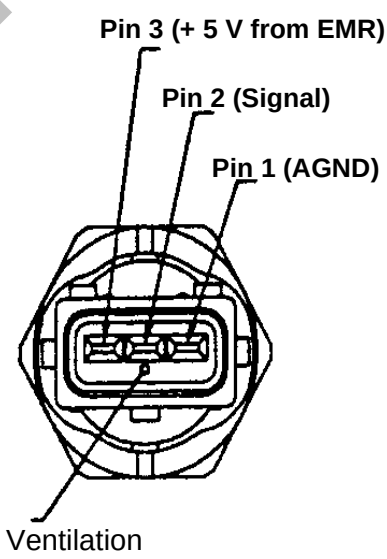
With a too low engine oil pressure the display shows a fault code.

In case of a too low pressure the EMR shuts down the engine and a fault code is displayed.

In case of a sensor failure the engine keeps on running and the display shows a fault code.

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Pos.	Designation	Pos. in wiring diagram	Deutz designation	Measuring values
1	EMR oil pressure sensor	B 88		

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When moving the swash plate out of neutral position, the working pistons will perform a stroke movement with every rotation of the cylinder block.

The slipper pads are hydrostatically balanced and are retained on the sliding face of the swashing cradle by a retaining device.

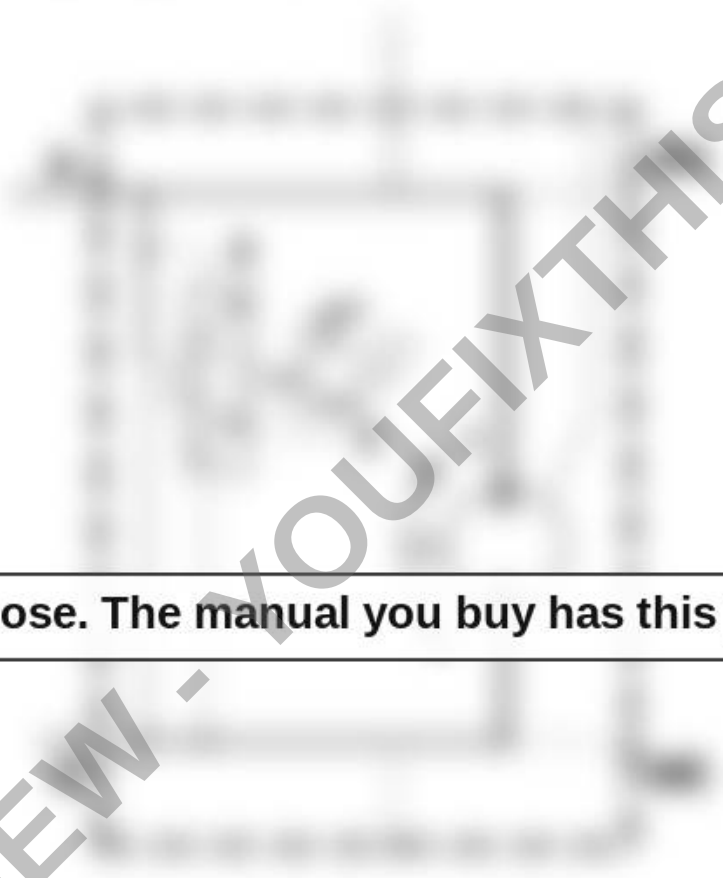
During a full rotation of the cylinder block each working piston will move through the bottom and top dead centre back to the initial position. During this movement each piston performs a complete stroke.

During the piston stroke each piston draws in a certain quantity of oil from the low pressure side of the hydraulic circuit and presses it out into the high pressure side.

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When switching the vibration on the motor must first start to move the resting vibration shaft. This resistance causes a hydraulic starting pressure, which is limited to 426 bar by the corresponding high pressure relief valve. Once the vibrator shaft has reached its final speed, the pressure will drop to a



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3.9 Driving against the closed brake

After entering the code number **0500** the brake will not be released. If the travel lever is in this condition shifted out of the brake gate and moved to any travel direction, the travel pumps will be triggered according to the chosen travel direction. At the same time a warning (fault code **0500**) appears on the display and the warning buzzer is triggered, in order to keep the operator informed about the condition. The brake control light in the LC-display remains activated.

In order to terminate this function and release the brake you must either enter code number **0501** or switch the ignition off. After entering code number **0501** the function is aborted and **OK** is displayed as confirmation for 5 seconds. After this the code needs to be entered again.

Note:	**This function can only be activated / deactivated when the travel lever is locked in the brake gate. (→ Input mode)**

3.10 Showing stored faults

This function is only valid from software version 1.10!

Switch on function „Show stored faults“:

- Enter code number **0700** . This code number enables the function „Show stored faults“.

The faults stored in the ESX are displayed in flashing mode. If several faults are stored, these are successively displayed in cycles of 3 second. After the last fault has been displayed, the first fault will appear again. If no faults are stored in the ESX, the display will show "**- - - - -** "

Switch off function „Show stored faults“:

- Enter code number **0701** . This code number disables the function „Show stored faults“.

Note:	**Apart from the stored faults the current faults are also displayed.**

Note:	**This function can only be activated / deactivated when the travel lever is locked in the brake gate.** (→ Input mode)

3.11 Delete all stored faults

This function is only valid from software version 1.10!

Execute the function „Delete all stored faults“:

- The engine must not be running!
- Enter code number **0710** .
- Switch the ignition off and on again.

All stored faults are now deleted.

Note:	**The stored faults can only be deleted when the engine is not running.**

Note:	**This function can only be activated / deactivated when the travel lever is locked in the brake gate. (→ Input mode)**

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Input code	Description of display function	Display values
		fault!
3076	Code "Plate pump energized without plates attached"	Only for initial commissioning!

11.1.19 Engine

Input code	Description of display function	Display values
5024	Display "Status engine coolant level"	0= Coolant level OK; 1= Coolant level too low
5026	Display "Status engine air filter"	0= Air filter OK; 1= Air filter soiled
5028	Display "Status of water separator"	0= Water separator OK; 1= Water or dirt in fuel filter
5050	Charge air pressure	Pressure in bar*10 (1bar = 100)

11.1.20 Hydraulics

Input code	Description of display function	Display values
5502	Display "Status hydraulic oil filter"	0= Hydraulic oil filter OK; 1= Hydrauli oil filter soiled

11.2 Fault log

Input code	Description of display function	Display values
0700	Function "Show stored faults“ activated	Fault codes are displayed one after the other
0701	Function "Show stored faults“ deactivated	**0000**
0710	Delete stored faults	once the fault log is deleted it is returned to **0000**

11.3 Test settings

11.3.1 Brake

Input code	Description of display function	Display values
0500	Activates the function "Driving against the closed brake"	500 and brake control light stays on when shifting the travel lever out of the brake gate
0501	Deactivates the function "Driving against the closed brake"	**O K** for 3seconds, then **0000**

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