Fig. 11:

2. **EMR engines are not fitted with a lift solenoid** !

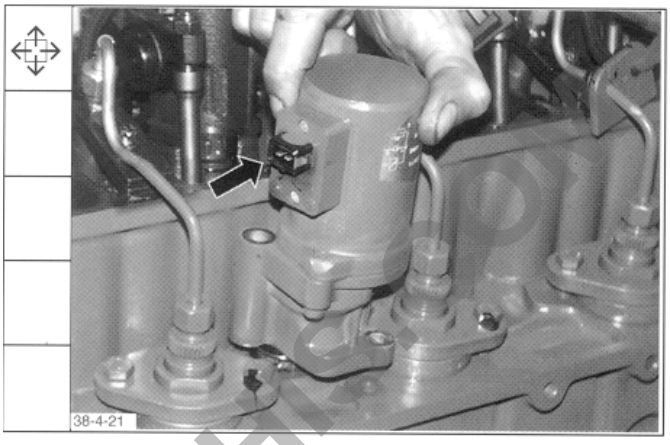


Fig. 12:

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

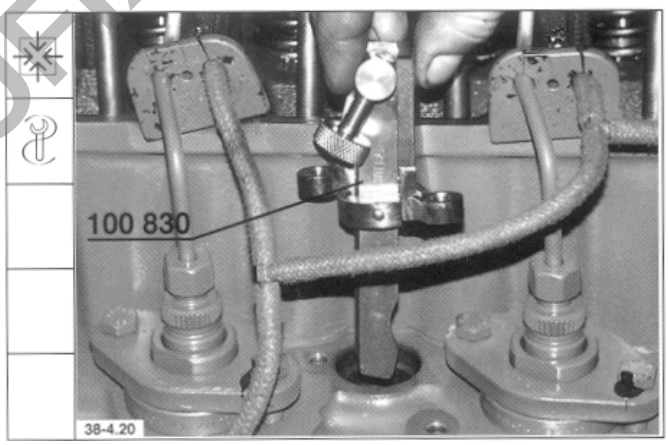


Fig. 13:

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

Note:

Tighten the knurled fastening screw by hand.

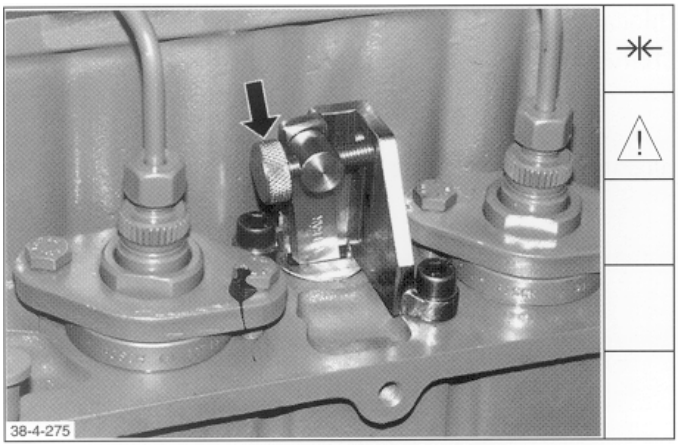


Fig. 14:

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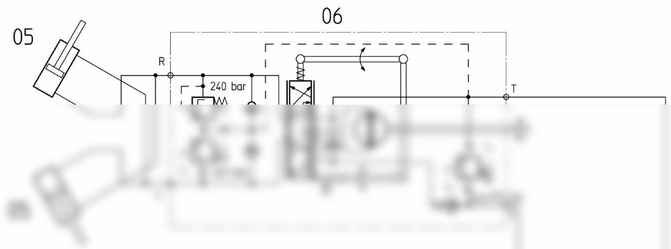
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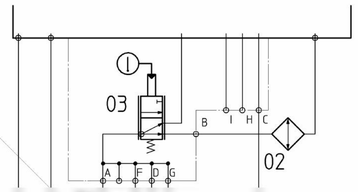
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Prüfzeichen
Test mark

Pos.	Benennung	Description
01	Verbrennungsmotor n=2300 1/min	Engine
02	Ölkühler	Oil cooler
03	Öltemperaturregler	Oiltemperature regulator
04	Anschlußblock	Connecting block
05	Lenkzylinder	Steering cylinder
06	Lenkeinheit	Steering unit
08	Bremsventil	Brake valve
09	Lenk-Speisepumpe Vg = 16 ccm	Steering-Charge pump
10	Fahrpumpe Vg = 75 ccm	Travel pump
11	Vibrationspumpe Vg = 75 ccm	Vibration pump
12	Fahrmotor varne Vg max = 110 ccm	Travel engine front
13	Fahrmotor hinten Vg max = 110 ccm	Travel engine rear
14	Achse	Axle
15	Vibrationsmotor Vg = 56 ccm	Vibration engine
16	Filter (Niederdruck)	Filter (low pressure)





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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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5.5 Maintenance chart

No.	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
5.6	Check the engine oil level	Dipstick mark		X						
5.7	Check the water separator			X						
5.8	Check the fuel level			X						
5.9	Check the hydraulic oil level	Inspection glass		X						
5.10	Check the coolant level	Inspection glass		X						
5.11	Check the dust separator			X						
5.12	Check the tire pressure				X					
5.13	Clean the cooling fins on engine and hydraulic oil cooler				X					
5.14	Check the oil level in the drive axle				X					
5.15	Check the oil level in the wheel hubs				X					
5.16	Check the oil level in the axle reduction gear				X					
5.17	Check the oil level in the drum reduction gear				X					
5.18	Check the oil level in the vibration bearings				X					
5.19	Change engine oil and oil filter cartridge*	min. 1x per year				X				
5.20	Change the fuel filter cartridge					X				
5.21	Drain the sludge from the fuel tank					X				
5.22	Service the battery	Pole grease				X				
5.23	Change the fuel pre-filter cartridge					X				

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Foreword and new features

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.

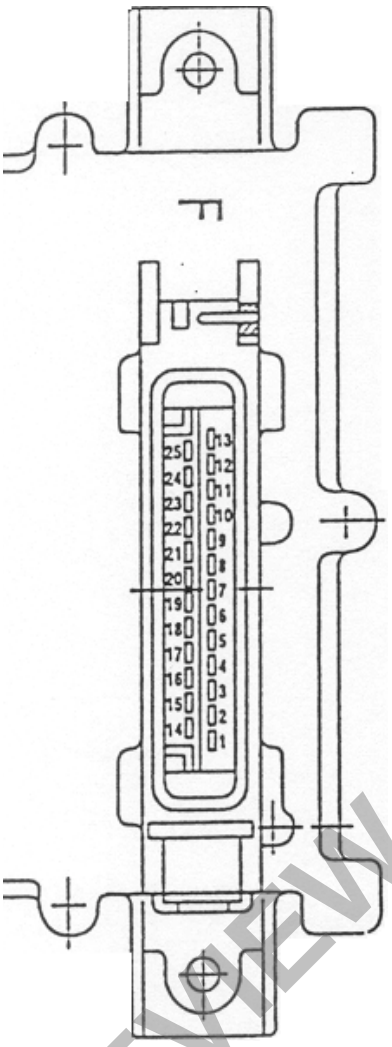
The different levels of product training demand, that the training performed by BOMAG, its Profit Centres or its dealers reflects the high quality of the training conducted at the Training Centre at BOMAG in Boppard. For this reason we invested a lot of time in the preparation of these materials .

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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Plug assignment X 30 (vehicle plug on EMR control unit)



Pos.	Designation	Description
1	U Batt -	Vehicle ground through X1:182
2		
3		
4		
5	Output: Digital/ PWM 1	empty
6	Spare	Spare
7	NC	empty
8	NC	empty
9	NC	empty
10	L-line	to diagnostics plug EMR, X32:L
11	K-line	to diagnostics plug EMR, X32:K
12	CAN high	X1:180, CAN2-
13	CAN low	X1:181, CAN2+
14	U Batt +	Power supply, vehicle voltage (ignition on) from relay K11, X1:179
15		
16	Output: Digital/ PWM/Frequency	empty
17	Ground	empty
18	Input: digital/PWM 1	empty
19	Input: digital / analogue	empty
20	Input: digital / analogue	empty
21	Input: digital/PWM 2	empty
22		
23		
24		
25		

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Sauer-Danfoss tandem pump general, connections and adjustment points

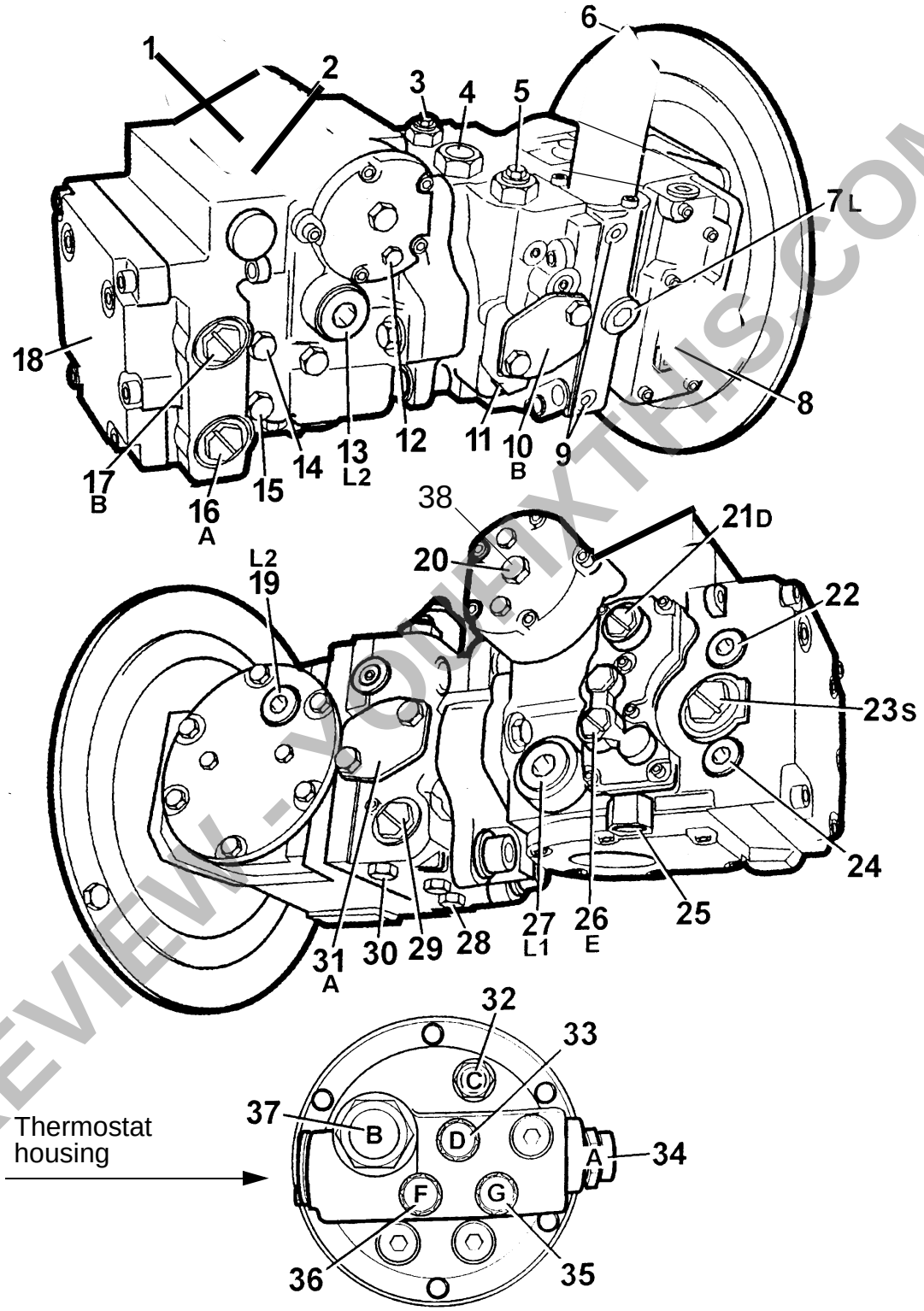


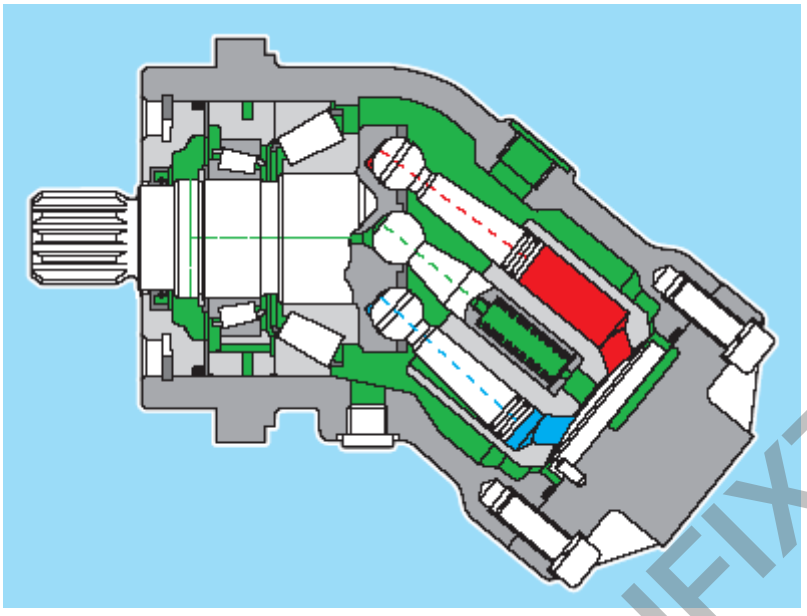
Fig. 5: Connections and adjustment points

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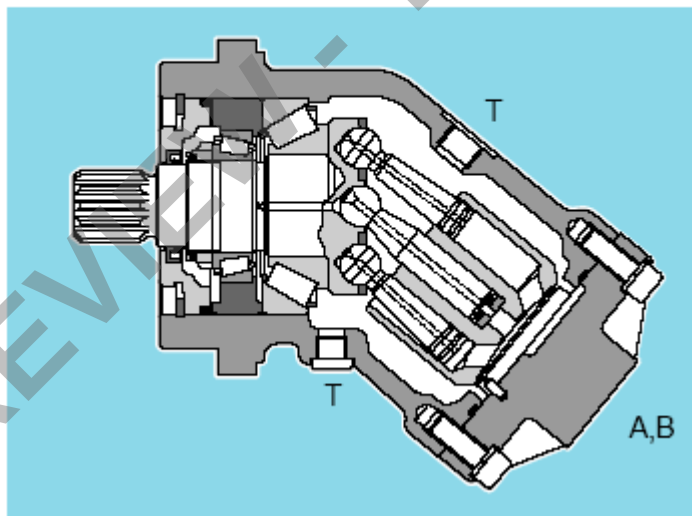
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The vibration motor is a Bosch-Rexroth axial piston motor of series A2FM with fixed displacement in bent axle design. Since the motor can be subjected to pressure from both sides, it is most suitable for the use in closed hydraulic circuits.

Vibration motors of the machines: BW 216- A2FM56, BW 219- A2FM63, BW 226- A2FM80

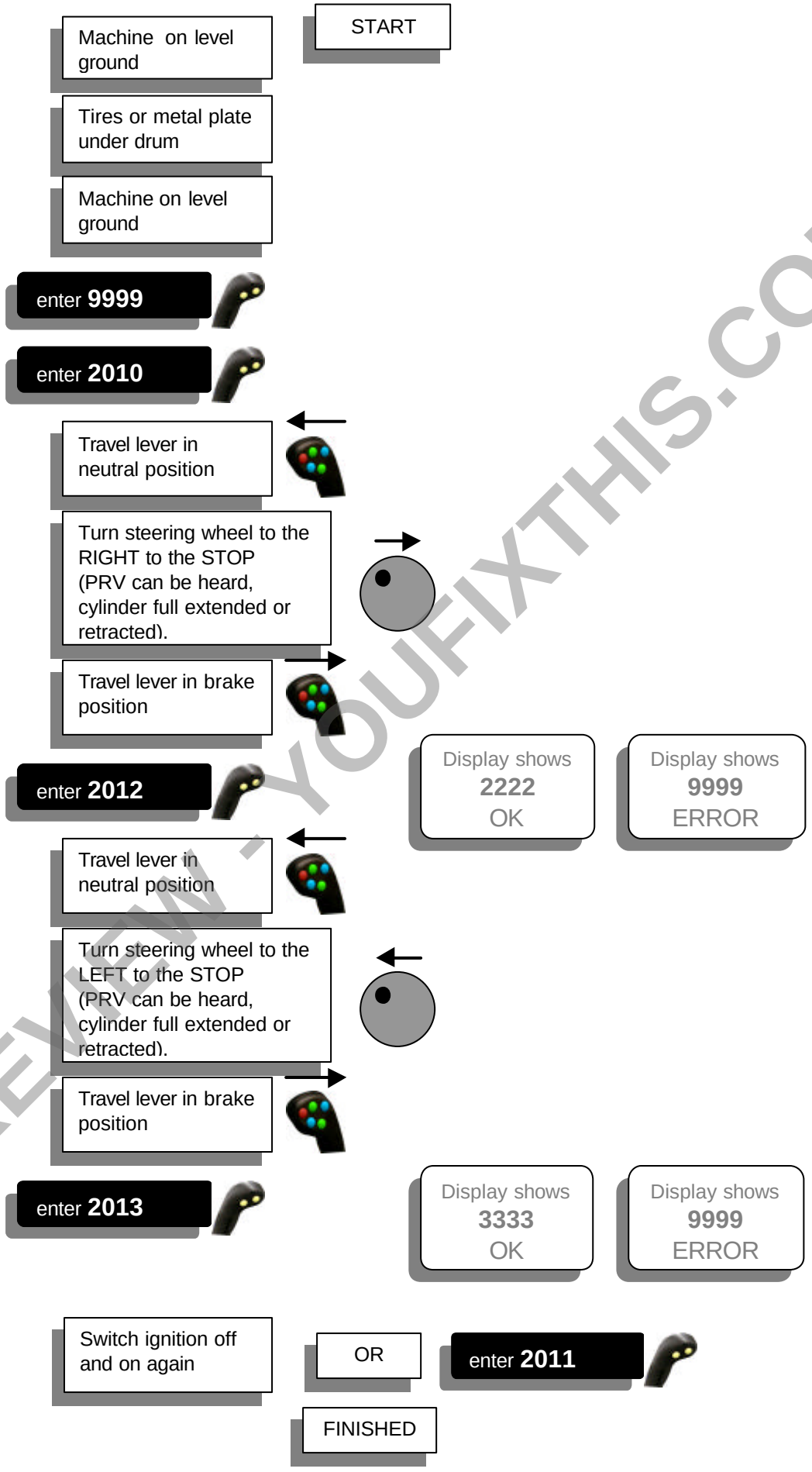


Konstanteinheit A2F
(Schwenkwinkel fest)



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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11.2.19 Steering: Steering wheel

Input code	Description of display function	Display values
2120	Standardized **nominal** steering angle position	-1000...0...1000
2130	Steering wheel sensor 1 track 1 absolute pulses	Number of total pulses
2131	Steering wheel sensor 1 track 2 absolute pulses	Number of total pulses
2132	Steering wheel sensor 1 total pulses of sensor	
2133	Steering wheel sensor 1 sense of rotation	1=steering wheel steers to the right (clockwise); 2=steering wheel steers to the left
2140	Steering wheel sensor 2 track 1 absolute pulses	Number of total pulses
2141	Steering wheel sensor 2 track 1 absolute pulses	Number of total pulses
2142	Steering wheel sensor 2 total pulses of sensor	
2143	Steering wheel sensor 2 sense of rotation	1=steering wheel steers to the right (clockwise); 2=steering wheel steers to the left

11.2.20 Vibration

Input code	Description of display function	Display values
3000	Display "Switch for vibration mode"	Off = 0 On = 1
3001	Display "Status of vibration relay“	0 = Relay K43 not switched 1 = Relay K43 switched
3002	Display "Vibration pump valve current" The display shows the actual pump current.	Display value = mA
3003	Display "Vibration pump valve current" (high amplitude on DH) The display shows the actual pump current.	Display value = mA

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