Repair Instructions

Vibratory plate

DPU 5545



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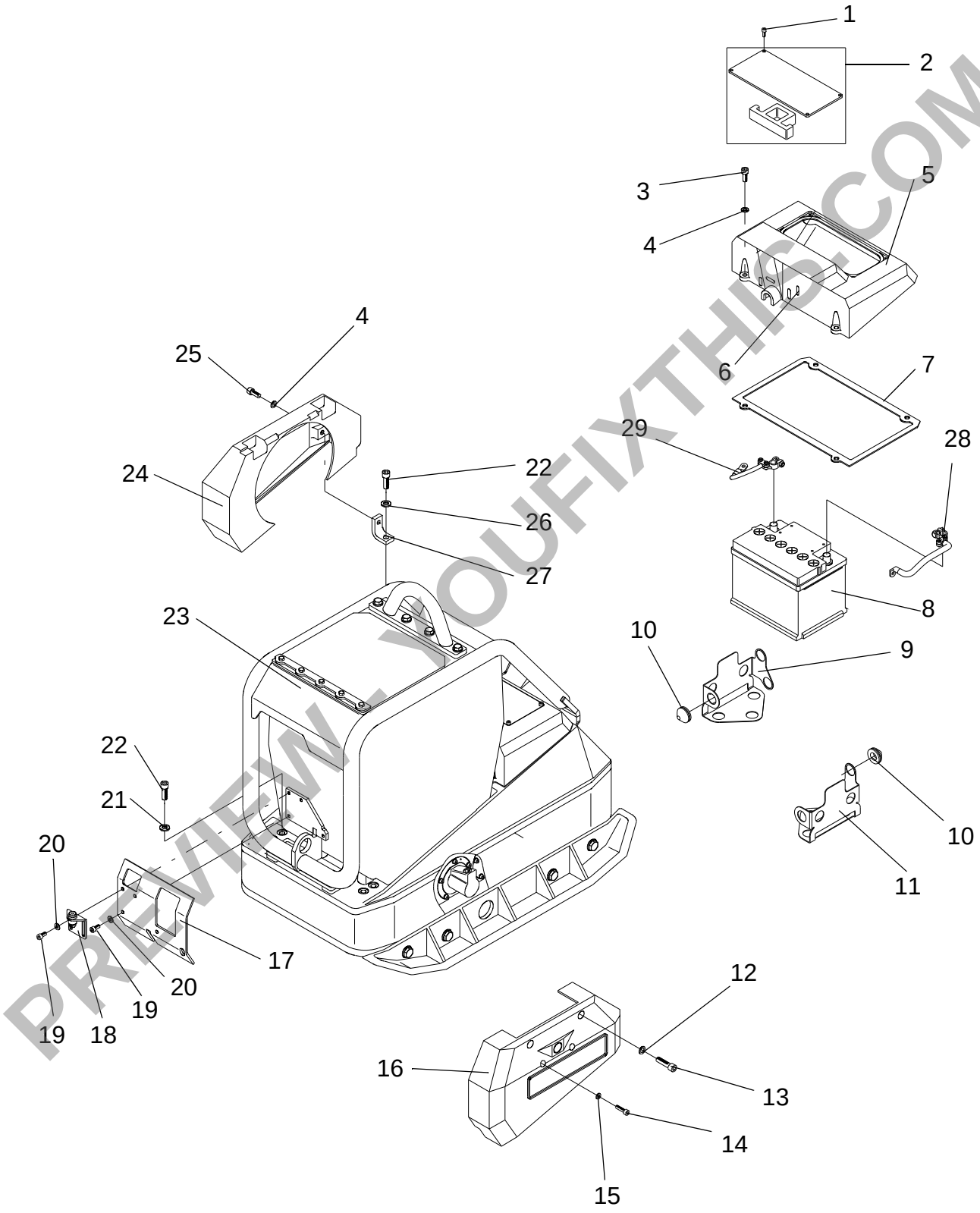
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6 Disassembly / assembly

6.1 Removing side covers and battery



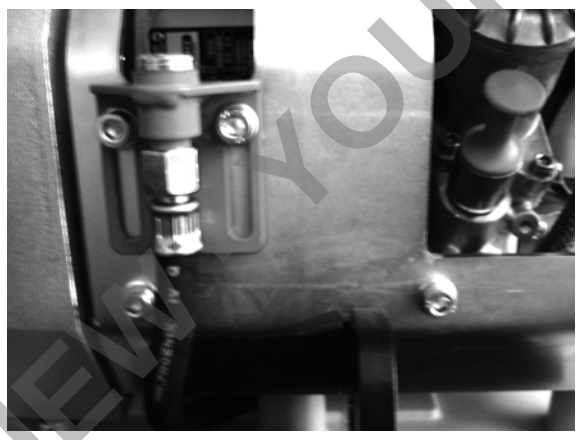
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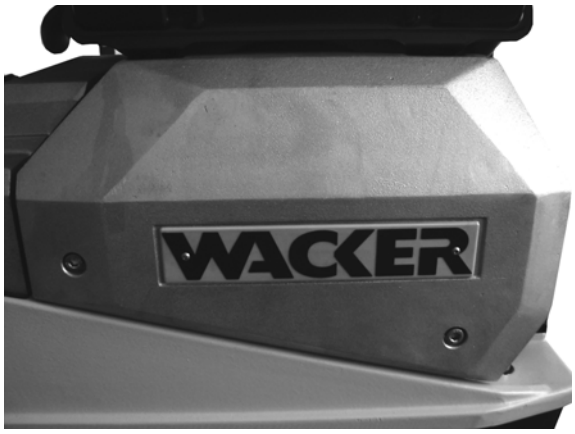
1. Use a 10mm Allen key to remove the two top socket-head screws (13) complete with washers (12). Use a 6mm Allen key to remove the two bottom socket-head screws (14) complete with washers (15). Remove protective hood (16).



2. Use a 6mm Allen key to remove the two socket-head screws (19) complete with washers (20). Remove complete oil drain (18) and lay it to one side; do not disconnect it from the hose. Use a 6mm Allen key to remove the two bottom socket-head screws (19) complete with washers (20). Remove protective plate (17).



3. Use an 8mm Allen key to remove the two socket-head screws (25) complete with washers (4). Lift out belt guard (24).



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2 Technical Data

			DPU 5045H	DPU 5045H - 750 wide
Item no.			0007862 0610045	0007936 0610046
Forward/reverse		m/min:	0 to 22	
Working capability		m^2/h:	up to 900	
Operating weight				
without extension plate	(440 mm)	kg:	387	
with extension plate	(600 mm)	kg:	410	
with extension plate	(750 mm)	kg:	426	
Power transmission			From drive engine directly to exciter unit via automatic centrifugal clutch and V-belt	
Exciter				
Vibrations		min^{-1}(Hz):	4150 (69)	
Multigrade oil			Fuchs Titan Unic 10W40 MC (SAE 10W40)	
Centrifugal force		kN:	50	
Drive engine			Air-cooled single-cylinder 4 stroke diesel engine with electric starter	
Piston displacement		cc:	413	
Engine speed		min^{-1}:	2900/210	
Rated power (*)		kW(hp):	6.1 (8.3)	
Oil		min^{-1}:	Fuchs Titan Unic 10W40 MC (SAE 10W40)	
Fuel			Diesel	
Fuel consumption		l/h:	1,6	
Tank capacity		l:	5,0	
Electrical system				
Battery			Special Wacker battery for vibratory plates 12 V - 55 Ah	
Alternator			Rotary current generator with electronic regulator and rectifier	
Charging rate max.		A:	26	
Charging voltage		V:	14	
Starter			Starter motor	
D.C.		V:	12	
Hydraulic control				
Hydraulic oil			Fuchs Renolin MR 520	

(*) In accordance with the installed useful outlet power according to Directive 2000/14/EC.
Sound pressure level at the operator's location, determined in accordance with EN ISO 11204, is L_{pA} = 92 dB(A).

The weighted effective acceleration value, determined in accordance with EN 1033, is 6.7 m/s^2.
The noise and vibration data were determined while the machine was operating on crushed gravel with the engine turning at nominal speed.

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19 Maintenance

19.1 Maintenance schedule

After about the first 8 hours of operation, check the security of all threaded fasteners accessible from the outside.		
Component	Maintenance work	Maintenance interval
Drive engine	First oil and filter change	approx. 25 hours after initial start-up
Valve clearance	Engine cold: Check valve clearances; adjust if necessary. Inlet valve 0.1 mm - outlet valve 0.2 mm.	
Air filter	Check the dry air filter - clean or replace the filter cartridge, as necessary (observe the air filter service indicator).	daily
Drive engine	Check oil level, if nec. top up oil.	
Centre pole height setting, transport lock	Regrease	weekly
V-belt	Check V-belt, if. nec. replace.	monthly
Protective frame	Check the security of the securing screws	
Central lifting point		
Tow-bar head	Check oil level, top up if necessary.	
Drive engine	Oil change, change oil filter. Keep cooling fins free of dirt, clean dry. Retighten all accessible screw connections.	every 250 h
Exciter	Oil change.	
Battery	Check acid level, if nec. top up with distilled water.	
Valve clearance	Engine cold: Check valve clearances; adjust if necessary. Inlet valve 0.1 mm - outlet valve 0.2 mm.	
Fuel filter	Change filter.	every 500 h

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4 Operation

4.1 Starting requirements

Oil: Check oil level on oil dipstick (21), if necessary top up with Fuchs Titan Unic 10W40 MC using the filler nozzle (19).

Fuel: When pouring diesel fuel into the fuel nozzle (20), maintain absolute cleanliness. Impurities in the fuel can cause breakdowns in the injection system and premature clogging of the fuel filter.

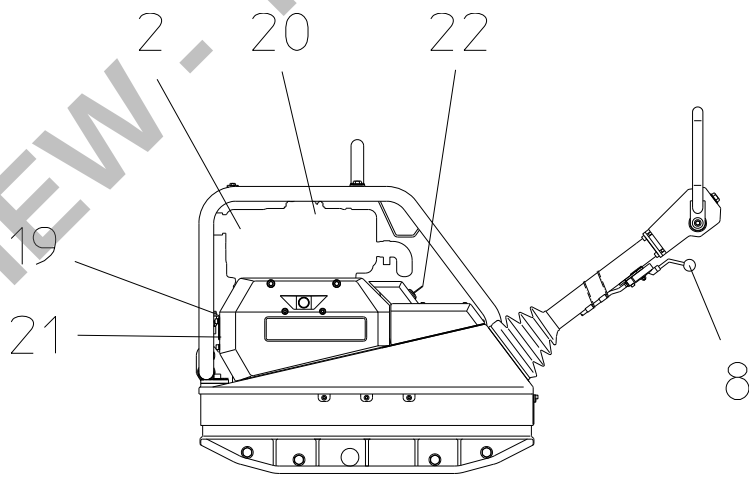
Air filter: Clean the dry air filter if it is clogged by dust.

Once you are sure that these requirements have been met, you can start the engine as follows:

1. Push the throttle lever (8) to the full throttle position.
2. At very low temperatures, operate the automatic decompression mechanism (2).
3. Turn ignition key (22) to the operating position and press in and hold the starter button until the engine starts.

   Attention: Wait until the engine stops before repeating the starting procedure.
4. Push throttle lever (8) to the idle position and allow the engine to idle for 7 minutes until it reaches operating temperature.

   Note: Do not activate automatic decompression lever while the engine is running.



5. Forward and reverse motion
6. The engine speed can be infinitely varied on the throttle control lever (8).
7. The direction of travel is determined with the shift lever (6).
8. Depending on the position of the shift lever (6), the vibratory plate compacts in forward direction, at standstill or in reverse direction.

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1 Safety instructions

Note: for the use of vibratory plates with combustion engines

1.1 General instructions

1. Vibratory plates may only be operated by persons who
   * are at least 18 years of age
   * are physically and mentally fit for this job
   * have been instructed in guiding vibratory plates and proved their ability for the job
   * to the employer
   * may be expected to carry out the job they are charged with carefully.
   * The persons must be assigned the job of guiding vibratory plates by the employer.
2. Vibratory plates may only be used for compaction jobs. Both the manufacturer's operating instructions and these safety instructions have to be observed.
3. The persons charged with the operation of vibratory plates have to be made familiar with the necessary safety measures relating to the machine. In case of extraordinary uses the employer shall give the necessary additional instructions.
4. It is possible that this vibratory plate exceeds the admissible sound level of 89 dB (A). According to the rules for the prevention of accidents regarding emission of noise, the employees have to wear ear protection if the sound level reaches 89 dB (A) or more.

1.2 Operation

1. When you start a diesel engine by hand, make sure you stand in the right position relative to the engine and that your grip on the crank is correct.

   Attention: Use only the genuine safety starting crank supplied by the manufacturer of the engine. Applying all your strength to the safety crank, continue to crank the engine until it starts to fire, as otherwise there is a danger of the crank kicking back.
2. The function of operation levers or elements is not to be influenced or rendered ineffective.
3. During operation the operator may not leave the control elements.
4. The operator has to stop the engine of the vibratory plate before going on breaks. The machine has to be placed such that it cannot turn over.
5. Stop engine before filling fuel tank. When refilling fuel tank, do not allow fuel to come into contact with the hot part of the engine or spill onto the ground.
6. Do not smoke or handle open fire near this machine.

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1 Foreword

This Instruction Manual contains information and details procedures necessary for the safe operation and maintenance of your Wacker machine. For the sake of your own safety and to protect against injury, you must read the safety instructions attentively, familiarise yourself with them, and comply with them at all times.

Operator safety was of major concern in the design and construction of this machine. Bear in mind, however, that danger can result if correct operating procedures are not observed or if maintenance is not to specification. Be sure to operate and maintain your Wacker machine in accordance with the instructions in this manual. It will reward your attention by giving trouble-free operation and a high degree of availability.

Have defective components replaced without delay.

Address all questions relating to operation and maintenance to your Wacker representative.

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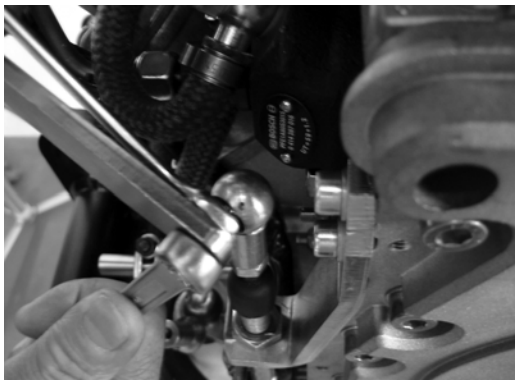
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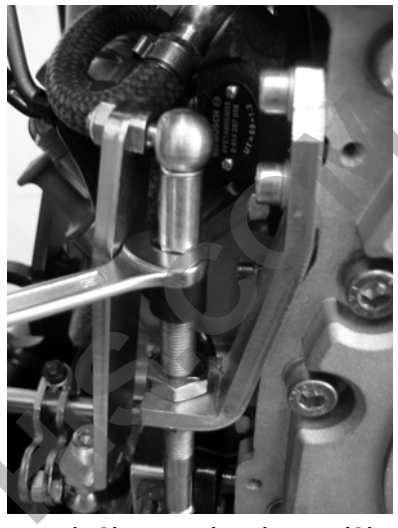
We expressly reserve the right to technical modifications - even without express due notice - which aim at improving our machines or their safety standards.

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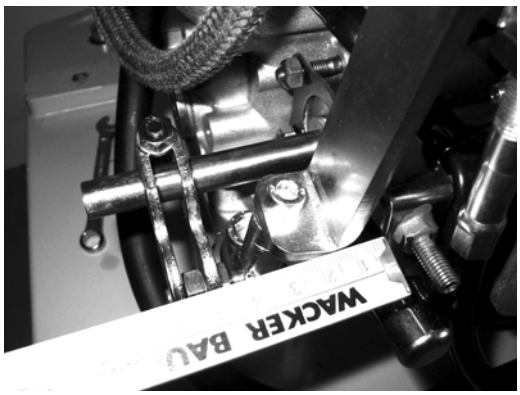
11. Seat lever (9) in angle joint (8) and install a new locknut (13). Use a ring spanner and open-ended spanner (8mm and 10mm) to tighten.
12. Use a 10mm open-ended spanner to tighten the nut against the angle joint.





13. Use a 5mm Allen key to install socket-head screw (12) securing lever (9) to bottom angle joint (10). The specified tightening torque is 10 Nm.
14. The distance between lever (9) and the diesel engine (adjusting screw) should be approx. 10 mm.





15. Hold actuating device (4) in position on the centre pole and secure it with 2 socket-head screws (6); use a 5mm Allen key to tighten the screws; the specified tightening torque is 10 Nm.
16. Secure the 3 pipe clamps (1) to the centre pole with socket-head screws (3) and washers (2); the specified tightening torque is 10 Nm.

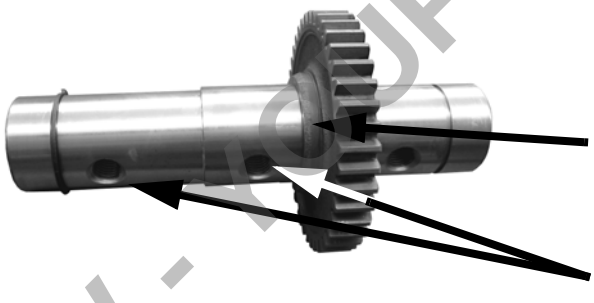
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11. The shaft (25) is now fully assembled. Test the shaft to make sure it is operating correctly. When shaft (25) turns up in adjusting sleeve (24), indexing pin (12) comes out. When shaft (25) is released in adjusting sleeve (24), shaft (25) must turn down by itself and indexing pin (12) must retract. It is this easy movement that makes it possible to change the machine's direction of travel.
12. Use pliers to install the first circlip (35) on shaft (38). Install Woodruff key (36) in shaft (38).



13. Use a manual press to press gear wheel (37) onto shaft (38). The shoulder of gear wheel (37) must be toward the two bores for eccentric weights (34, 39).



14. Use pliers to install the second circlip (35). Use a manual press to press on the two inner races of cylindrical roller bearing (11). Make sure that the wording on the bearing shell is facing in.



Note: It is important to match the outer shells of the bearing correctly with the corresponding inner races.

15. Once the shafts (38, 25) have been assembled, they have to be installed in exciter housing (31)

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Assembly of the mount and frame

37. Assemble the mount. The socket head cap screw is tightened with an Allen wrench 10 mm and 86 Nm.



38. The frame (28) is then attached to the rubber-metal shockmount (26). The two socket head cap screw are tightened with an Allen wrench 5 mm and 10 Nm.



Assembly of the control (17)

39. You see the control.



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