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3.5 Maintenance chart

With each maintenance interval perform also the work for shorter preceeding intervals.

Pos.	Description	Note
Maintenance every day		
5.6	Cleaning machine/engine	
5.7	Checking the engine oil level	to upper dipstick mark
5.8	Checking the fuel level	
5.9	Checking the hydraulic oil level	to middle of dipstick mark
5.10	Checking the water level	summer: water winter: anti-freeze mixture
Maintenance every month		
5.11	Cleaning the air filter	
5.12	Checking the condition of the battery, greasing the poles	
5.13	Draining the fuel tank sludge	
Maintenance every 6 months		
5.14	Changing the engine oil and the engine oil filter	at least 1 x per year
5.15	Checking, adjusting the valve clearance	
5.16	Cleaning cooling fins and cooling air intake openings	
5.17	Checking, tensioning, changing the drive V-belt	
5.18	Checking, tensioning, changing the toothed belt for the vibration system	
5.19	Greasing the gears	
5.20	Checking the rubber buffers	
Dim. mm (inch)		
5.21	Changing the fuel filter	
5.22	Changing the hydraulic oil (at least 1 x per year)	observe the dipstick
5.23	Changing the hydraulic oil filter	
As required		
5.24	Water sprinkler system, cleaning, maintenance in the event of frost	
5.25	Adjusting the scrapers	
5.26	Tightening torques for screws with metric unified threads	Observe the tighteneing torques
5.27	Engine conservation	

*The engine oil change intervals must be halved when using diesel fuel with a sulfur content of more than 0.5% by weight. The same applies when using engine oil of API-class CC/SE or SF. Example: Fuel 1% sulfur and lubrication oil CC/SE, engine oil change every quarter of a year or every 125 operating hours.

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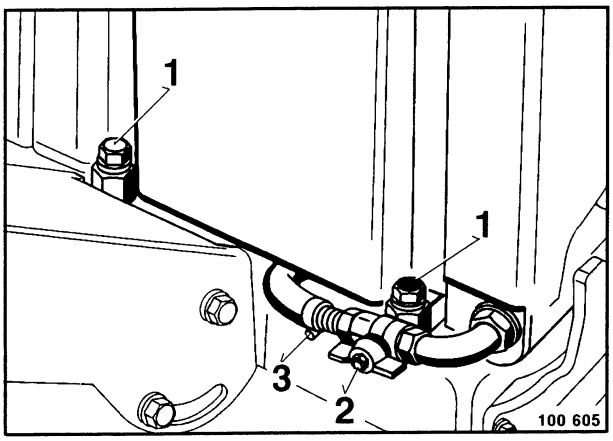


Fig. 1

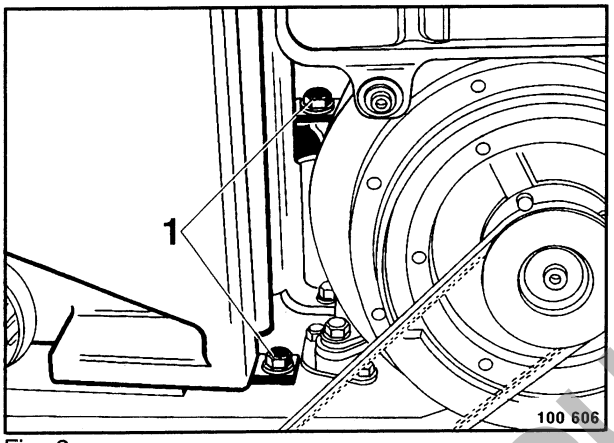


Fig. 2

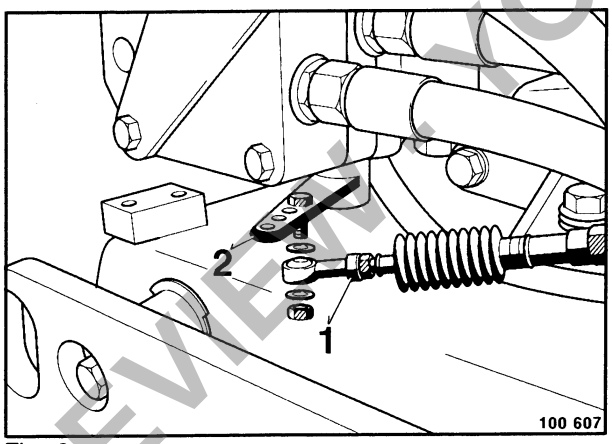


Fig. 3

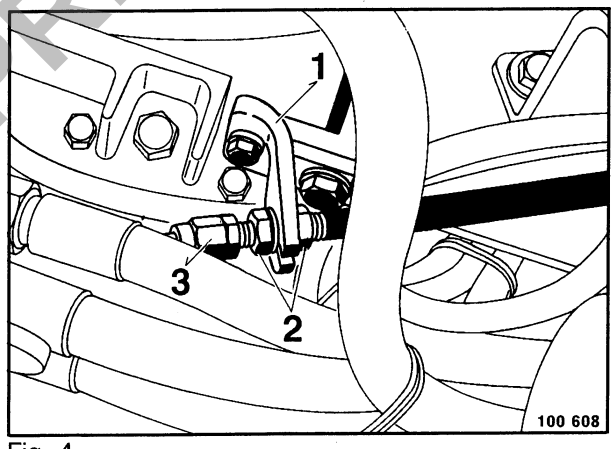


Fig. 4

Removing and installing the travel control cable

Removing the travel control cable

1. Drain all water from the water tank.
2. Loosen the hose clamp 3 (Fig. 1) on the shut-off valve (2) and pull the water hose off.
3. Unscrew both rear screws (1) from the water tank retaining brackets.
4. Unscrew both front screws 1 (Fig. 2) from the water tank retaining brackets.
5. Take the water tank and the water tank retaining brackets off the upper assembly.
6. Disconnect the travel control cable 1 (Fig. 3) from the travel pump control lever (2).
7. Loosen both fastening nuts 2 (Fig. 4) on the bracket (1) and detach the travel control cable (3).

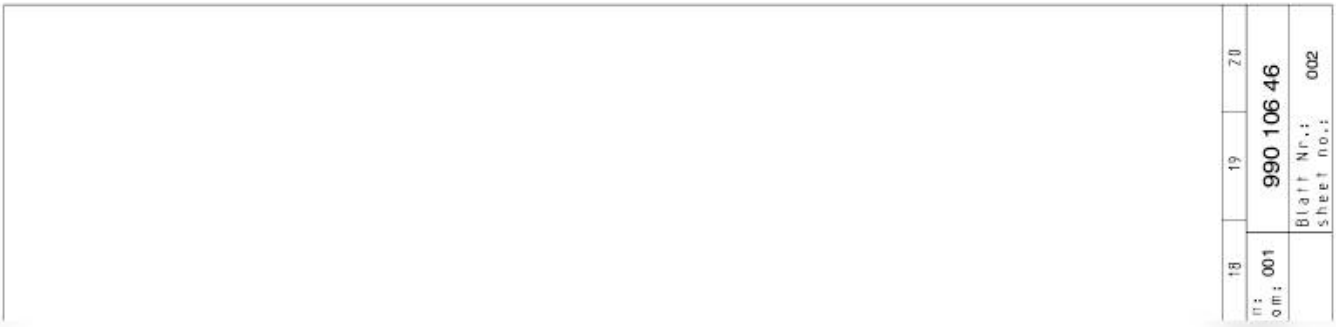
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Important notes

These safety regulations must be read and applied by every person involved in the repair of this machine. The applicable accident prevention instructions and the safety regulations in the operating and maintenance instructions must be additionally observed.

Repair work shall only performed by appropriately trained personnel or by the after sales service of BOMAG.

Any suggestions, safety precautions and warnings in this section are intended as a mnemonic aid for well trained and experienced expert mechanics. This manual should not be considered a bible on workshop safety.

Workshop equipment and facilities as well as the use and waste disposal of solvent, fluids, gases and chemicals are subject to legal regulations, which are intended to provide a minimum on safety. It is obviously your own responsibility to know and adhere to these regulations.

This manual contain headers like "Note", "Attention", "Danger" and "Environment", which must be strictly complied with in order to avoid dangers for health and for the environment.

⚠ Danger

Paragraphs marked like this highlight possible dangers for persons.

⚠ Caution

Paragraphs marked like this highlight possible dangers for machines or parts of the machine.

i Note

Paragraphs marked like this contain technical information for the optimal economical use of the machine.

Environment

Paragraphs marked like this point out practices for safe and environmental disposal of fuels and lubricants as well as replacement parts.

Observe the regulations for the protection of the environment.

General

- Before starting repair work stand the machine on level and solid ground.
- Always secure the machine against unintended rolling.
- Secure the engine reliably against unintentional starting.
- Mark a machine that is defective or being repaired by attaching a clearly visible warning tag to the steering wheel.
- On machines with articulated joint keep the articulated joint locked during work.
- Use protective clothes like hard hat, safety boots and gloves.
- Keep unauthorized persons away from the machine during repair work.
- Tools, lifting gear, lifting tackle, supports and other auxiliary equipment must be fully functional and in safe condition.
- Use only safe and approved lifting gear of sifficient load bearing capacity to remove and install parts or components from and to the machine.
- Be careful with cleansing agents. Do not use easily inflammable or harmful substances, such as gasoline or paint thinners for cleaning.
- Cleaning or repair work on the fuel tank is very dangerous. Do not smoke or allow any ignitable sparks or open fire in the vicinity when cleaning or repairing a tank. .
- When performing welding work strictly comply with the respective welding instructions.

Precautions and codes of conduct for welding work

Welding work should only be performed by specially instructed expert personnel.

⚠ Danger

Electric shock!

Sparks, fire hazard, burning of skin!

Infrared or ultraviolet radiation (arc), flashing of eyes!

Health hazard caused by welding work on highly alloyed work pieces, metal coatings, paint coatings, plastic coatings, oil containing dirt deposits, grease or solvent residues, etc.!

- Check welding equipment and cables for damage before use (also the validity of inspection stickers).
- Ensure good conductivity between earth cable and work piece.
- Start the extraction fan before starting work and guide with the progressing work as required.
- Always isolate the burner when laying it down (remove possible electrode residues).
- Protect cables from being damaged, use cables with insulated couplings.
- Ensure sufficient fire protection, keep a fire extinguisher at hand.

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1		BW 75 H
Vibrating drums		front + rear
Drive system		mechanical
Frequency	Hz	55
Amplitude	mm (in)	0,5
Centrifugal force	kN	20

Capacities

Fuel tank (diesel)	l (Usgal)	5,5 (1.453)
Water tank	l (USgal)	60 (15.9)
Hydraulic oil tank	l (USgal)	approx. 13 (3.435)

Water sprinkler system

System	gravity

1 Technical modifications reserved

Additional engine data

Combustion principle		4-stroke diesel
Low idle speed	rpm	1100 to 1350
High idle speed	rpm	3600
Specific fuel consumption	g/kWh	265
Valve clearance intake	mm	0,15
Valve clearance exhaust	mm	0,15
Injection valves opening pressure	bar	200

Travel pump

Type		SPV 15
System		Axial piston - swash plate
Max. displacement	cm^3/rev.	15
High pressure limitation	bar	250
Charge pressure, high idle	bar	11 ± 1

Drum drive

Type		OMS 200
System		Gerotor
Displacement stage 1	cm^3/rev.	200
Perm. leak oil rate	l/min	1

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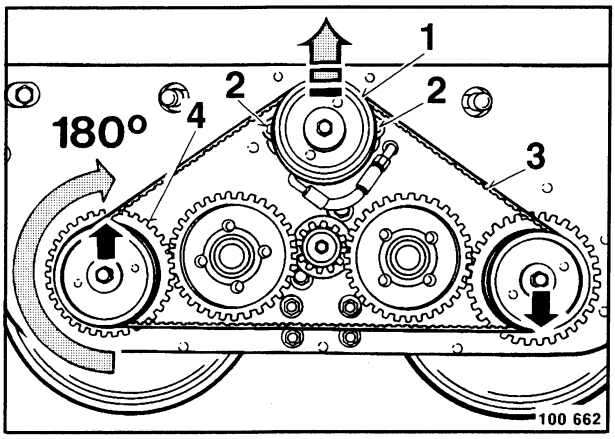


Fig. 37

19. Turn one toothed belt pulley 4 (Fig. 37) for 180° and install the toothed belt (3).

20. Pull the hydraulic coupling (1) up and tighten both fastening screws (2).

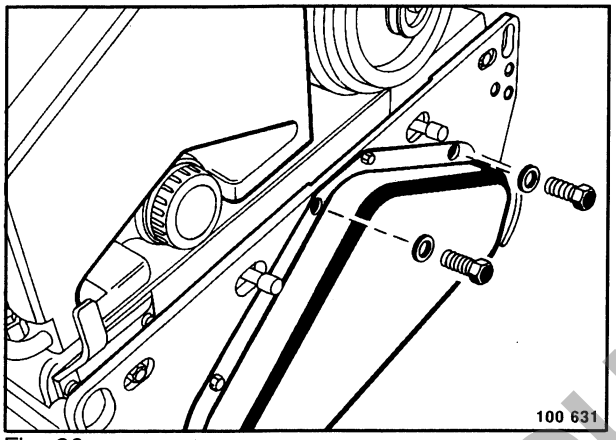


Fig. 38

21. Check the gasket on the drive gear cover, change it if necessary and reinstall the drive gear cover (Fig. 38).

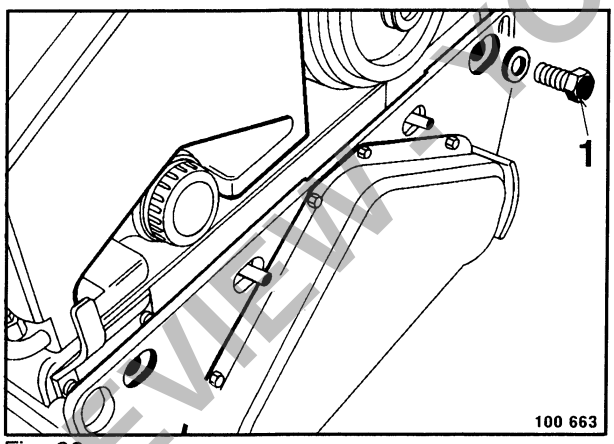


Fig. 39

22. Lower the upper structure and screw both front fastening screws 1 (Fig. 39) into the rubber buffers.

Danger

Support the upper structure securely, danger of accident!

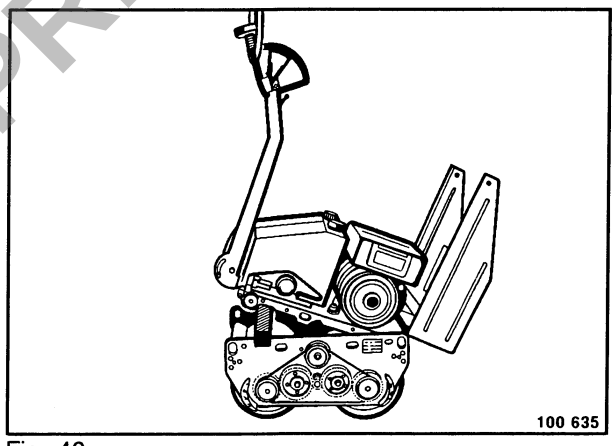


Fig. 40

23. Lift the upper structure up again and support it (Fig. 40).

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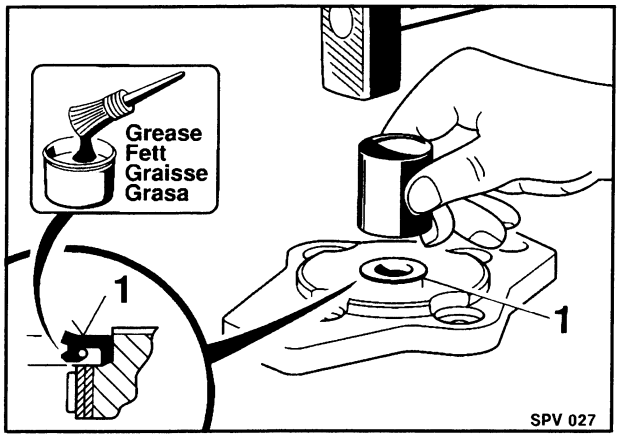


Fig. 25

14. Install the radial seal 1 (Fig. 25) in dry condition and fill it with grease.

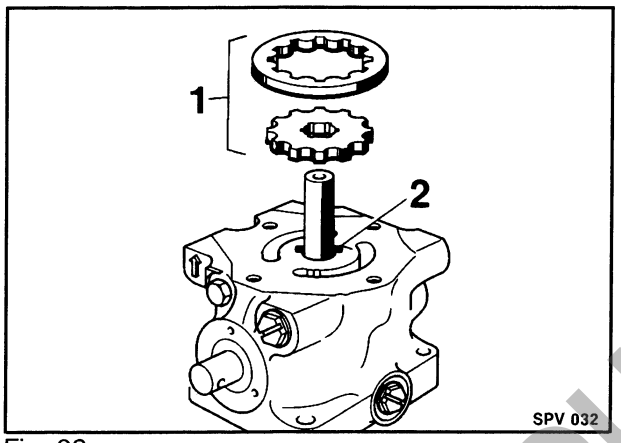


Fig. 26

15. Insert the cylindric pin 2 (Fig. 26).

16. Install the rotor (charge pump) (1).

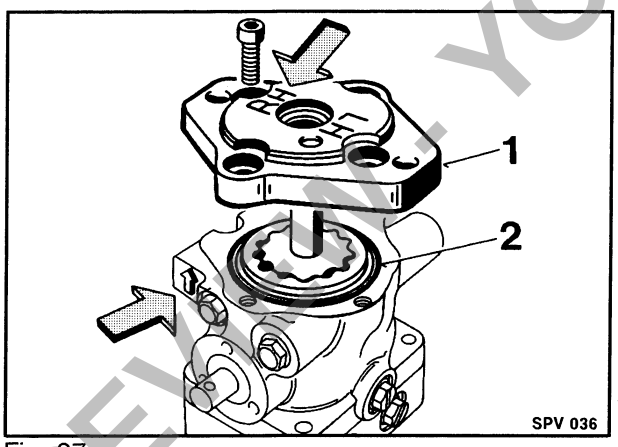


Fig. 27

17. Insert the new O-ring 2 (Fig. 27) with some grease, screw the cover (1) on and tighten it crosswise.

Caution

When installing the cover make sure that the designation "RH" is placed on the side with the flow direction arrow!

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