Section 1
TECHNICAL DATA



Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1 Ignition switch

2 Instrument cluster

3 Vent for heating and ventilation, driver[3]

4 Vent for heating and ventilation, footwell[3]

5 Push button vibration

6 Travel lever

7 Rotary switch vibration, high/low frequency

8 Rotary switch for speed limitation control

9 Emergency stop push button

10 Push button for warning horn

11 Warring light "ASC" Anti-Spin-Control[1]

12 Rotary switch for direction indicators left/right[3]

13 Rotary switch for hazard light system[3]

14 Rotary switch for lighting (StVZO)[3]

15 Rotary switch for working lights[3]

16 Steering wheel adjustment lever[3]

17 Rotary momentary contact switch for engine speed and engine diagnotics inc/dec.

1 BW177DH/PDH-50
2 Not Available
3 Optional Equipment

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Starting the engine

DANGER: **Danger of accident!**

Always wear your seat belt.

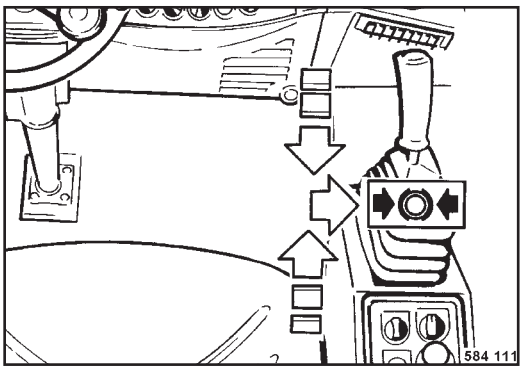

Fig. 33

- Check, whether the travel lever (Fig. 33) is engaged to the right in brake position.

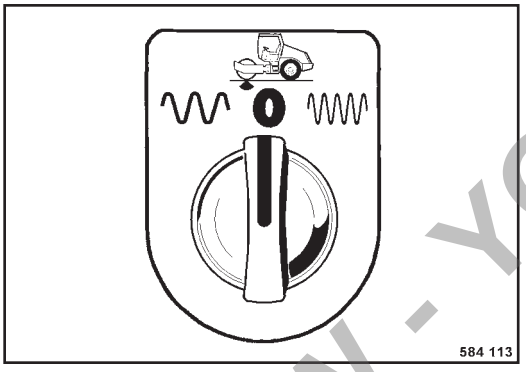

Fig. 34

- Turn the rotary vibration selector switch (Fig. 34) to position “0”, vibration off.

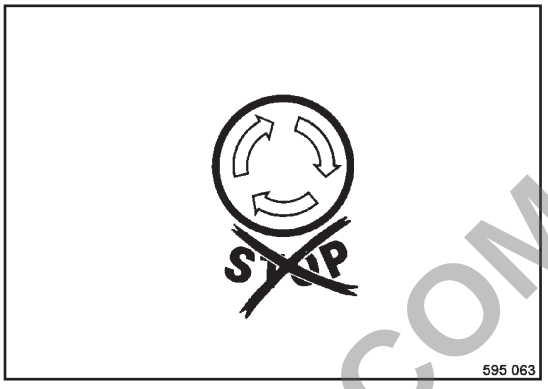

Fig. 35

- Check, whether the emergency stop switch (Fig. 35) is unlocked.

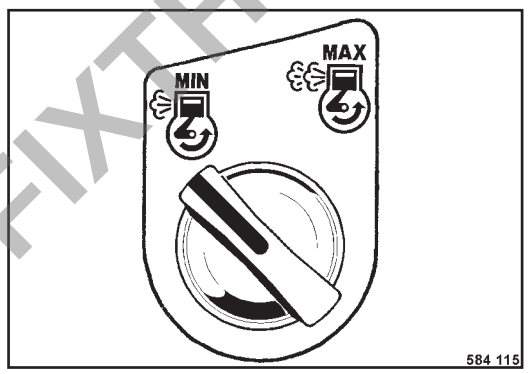

Fig. 36

- Turn rotary switch (Fig. 36) to position “Min” (idle speed).

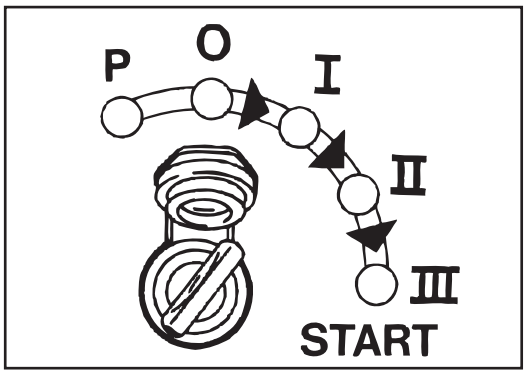

Fig. 37

- Turn the ignition key (Fig. 37) to position “I”.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Maintenance chart

With all maintenance intervals perform also the work for shorter preceding service intervals.

Designation	Note
Every 10 operating hours	
Check the engine oil level	Dipstick mark
Checking, cleaning the water separator	
Check the fuel level	
Check the coolant level	
Check the hydraulic oil level	Inspection glass
Checking the V-belt	
Every 50 operating hours	
Check the tire pressure	see technical data
Adjust the scrapers	
Every 250 operating hours	
Clean the cooling fins on engine and hydraulic oil cooler	min. 1x per year
Check the oil level in the drive axle	
Check the oil level in the planetary gears	
Check the oil level in the vibration bearings	
Check the oil level in the drum drive gear	DH and PDH machines
Every 500 operating hours	
Changing engine oil and oil filter cartridge	min. 1x per year
Servicing the battery	distilled water, pole grease
Drain the sludge from the fuel tank	
Change the fuel filter cartridge	
Changing the fuel pre-filter cartridge	
Checking V-belt tension, idler pulley and fan hub	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Changing engine oil and oil filter cartridges

CAUTION: **The oil change at 500 operating hours refers to the use of fuels with a sulphur content of less than 0.5%.**

When using fuels with a sulphur content higher than 0.5 % the oil change intervals must be halved (see section fuels and lubricants).

Drain the engine oil only when the engine is warm.

DANGER: **Danger of scalding!**

When draining off hot oil.

Environment

Catch running out oil and dispose of environmentally together with the engine oil filter cartridge.

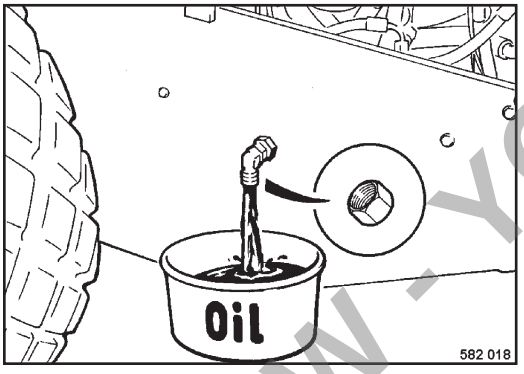

Fig. 104

- Unscrew the drain plug (Fig. 104) and catch running out oil.
- Turn the drain plug tightly back in.

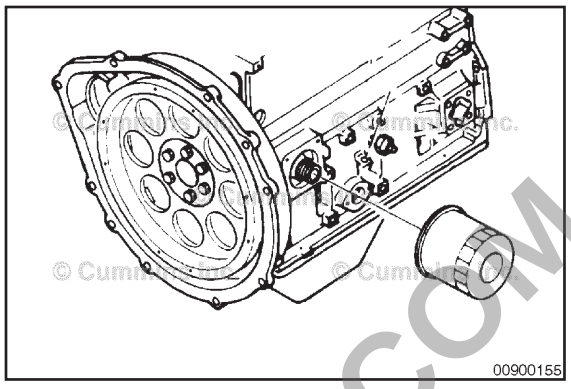

Fig. 105

- Unscrew the filter cartridge (Fig. 105) using an appropriate filter wrench.
- Clean the sealing face on the filter carrier from any dirt.

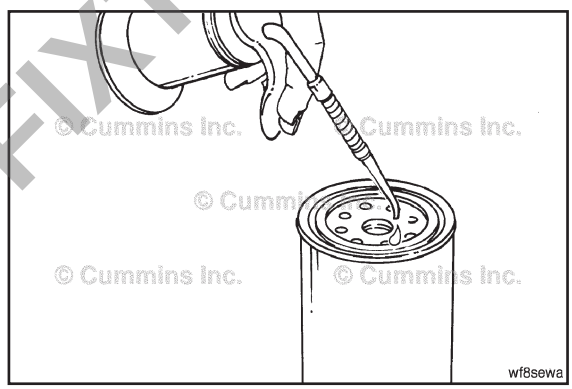

Fig. 106

- Slightly oil the rubber seal on the new filter cartridge.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Tightening torques

BOLT DIMENSIONS	TIGHTENING TORQUE FT. LBS. / N•m

Engine conservation

If the engine is to be shut down for a longer period of time (e.g. over winter), we recommend to apply the following conserving measures to avoid corrosion:

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Engine

Faults	Possible cause	Remedy
The engine does not start	Starter defective or pinion not engaging	Have examined by a specialist
	Fuel tank empty	Fill and bleed the tank
	Temperature below starting limit	Use winter fuel and engine oil acc. to the ambient temperature.
	Fuel filter clogged, in winter due to paraffin separation.	Change the filter. use winter fuel
	Fuel lines leaking	Check all line connections for leakages and tighten the fittings.
	Battery discharged or not conected	Tighten the pole clamps, check the cable connections.
	Injection valves or injection pump defective	Have examined by a specialist
The engine starts poorly and works irregularly with poor power	Battery power too low, battery clamps loose or oxidized, causing the starter to turn too slowly	Have the battery checked, clean the terminal clamps, tighten them and cover them with acid free grease
	Especially during winter: the use of too viscous engine oil	Use engine oil suitable for the ambient temperature
	Fuel supply restricted, in winter fuel system clogged due to paraffin separation	Change the fuel filter. Check the line connections for leaks and tighten the fittings. Use winter fuel in the cold season.
	Incorrect valve clearance	Adjust the valve clearance
	Injection valve defective	Have examined by a specialist
	Injection lines leaking	Check the lines for leakages
	Turbo charger defective	Have examined by a specialist
	Dry air filter dirty	clean, replace if necessary
	Excessive play in the throttle cable	Adjust the throttle cable, change it if necessary

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Table of Contents

Technical Data	Section 1
Safety Regulations	Section 2
Indicators and Controls	Section 3
Operation	Section 4
Maintenance	Section 5
Trouble Shooting	Section 6

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

General

This BOMAG machine is built in accordance with the latest technical standard and the valid technical rules and regulations. There is, however, a risk of danger for persons and property if:

- the machine is used for purposes other than those it is intended for
- the machine is operated by untrained personnel
- the machine is modified or converted in an unprofessional way
- the applicable safety regulations are not observed.

Each person involved in operation, maintenance and repair of the machine must therefore read and apply these safety regulations. This should be confirmed by obtaining the signatures of the customer, if necessary.

Furthermore the following regulations and instructions are obviously also valid:

- applicable accident prevention instructions
- generally acknowledged safety and road traffic regulations
- country specific safety regulations. It is the duty of the operator to know and observe these regulations. This applies also for local regulations and the regulations for various types of manual work. If the recommendations in this manual differ from the regulations valid in your country, you must strictly observe the regulations in your country.

Intended use

This machine must only be used for:

- compaction of bituminous materials, e.g. road surface layers. (AC and AD machines only)
- medium and heavy compaction tasks in earth work (road sub-bases)
- This machine must only be operated with fully functional safety equipment.
- The machine should be checked by an expert once every year.

Unintended use

Dangers may, however, arise from the machine if it is used by untrained personnel in an unprofessional way or if it is used for purposes other than those mentioned in these instructions.

Do not work with vibration on hard concrete, on a cured concrete layer or heavily frozen ground.

Starting and operation of the machine in an explosive environment is prohibited.

Who is allowed to work with the machine?

The machine must only be operated by trained and authorized persons which are at least 18 years of age. The responsibilities for the operation of the machine must be clearly specified and complied with.

Persons under the influence of alcohol, medication or drugs must not operate, service or repair the machine.

Maintenance and repair tasks require specific knowledge and must therefore only be carried out by trained and qualified personnel.

Conversions and alterations to the machine

Unauthorized conversions to the machine are prohibited for safety reasons.

Original parts and accessories have been specially designed for this machine. We wish to make expressly clear that we have not tested or authorized any original parts or special equipment not supplied by us. The installation and/or use of such products can impair the active and/or passive driving safety. The manufacturer expressly excludes any liability for damage resulting from the use of non-original parts or accessories.

Safety notes in the operating and maintenance instructions:

DANGER: **Sections marked like this point out possible dangers for persons.**

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 10 of 114 pages

The full manual includes:

- All 114 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Bomag BW177D-50, BW177DH-50, BW177PDH-50 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual