Technical data

Dimensions



Fig. 1

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4.1 Driver's stand

4.1.1 Overview

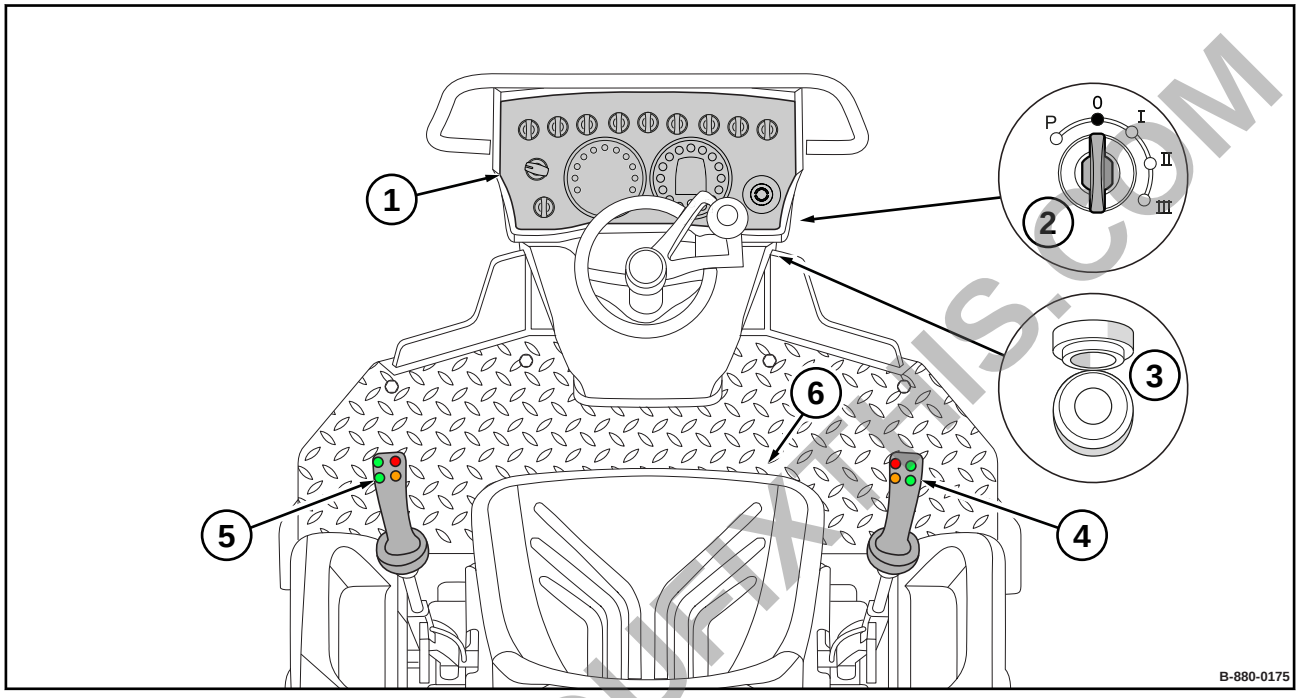


Fig. 33

1 Operating console
2 Starter switch
3 12 V DIN socket
4 Travel lever, right
5 Travel lever, left *(optional equipment)*
6 Foot switch for emulsion spraying system

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6.4 Travel operation

6.4.1 Preliminary remarks and safety notes

Before starting to drive make sure that the drive range is absolutely safe.

Do not drive in public traffic with the precision spreader laterally extended.

DANGER!

Danger to life caused by the machine turning over!

– Never drive across a slope.
– Always drive straight up or down a slope.

Do not drive on gradients exceeding the maximum gradability of the machine.

- Soil conditions and weather influences impair the climbing ability of the machine.
- Wet and loose soils considerably reduce the ground adhesion of the machine.

When driving up and down inclinations move the travel lever slowly back towards neutral to brake the machine.

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8.5 Maintenance Table

No.	Maintenance works	Page
	Every 50 operating hours	
8.6.1	*Checking radiator hoses and hose clamps*	*176*
8.6.2	*Checking, cleaning the water separator*	*176*
8.6.3	*Lubricating the chip spreader*	*177*
	Every 250 operating hours	
8.7.1	*Checking, tensioning the V-belt*	*178*
8.7.2	*Check the air intake lines*	*179*
8.7.3	*Checking radiator hoses and hose clamps*	*179*
8.7.4	*Cleaning the radiator module*	*180*
8.7.5	*Battery service*	*182*
8.7.6	*Check the parking brake*	*182*
8.7.7	*Checking the protective canopies*	*183*
	Every 500 operating hours	
8.8.1	*Change engine oil and oil filter cartridge*	*184*
8.8.2	*Replacing the fuel filter; bleeding the fuel system*	*186*
8.8.3	*Replace the V-belt*	*189*
8.8.4	*Checking the anti-freeze concentration and the condition of the coolant*	*190*
8.8.5	*Checking the hydraulic lines*	*190*
	Every 1000 operating hours	
8.9.1	*Checking, adjusting the valve clearance*	*192*
8.9.2	*Checking the lines on the diesel engine*	*192*
8.9.3	*Checking the exhaust manifold*	*192*
8.9.4	*Checking the engine mounts*	*193*
8.9.5	*Checking the ROPS*	*193*
8.9.6	*Checking the travel control*	*194*
8.9.7	*Replacing the hydraulic oil filter*	*194*

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9.5 Engine faults

Fault	Possible cause	Remedy
Engine does not start	Fuel tank empty	Refuel, bleed the fuel system
	Fuel filter clogged, in winter due to paraffin separation	Change the fuel filter, use winter fuel
	Fuel lines leaking	Check all line connections for leaks and tighten the fittings, bleed the fuel system
	Battery not charged or not connected	Tighten the terminal clamps on the battery, check all cable connections.
	Starter defective	Have examined by a specialist
Poor starting of engine or engine works irregularly with poor power	Battery power too low, terminal clamps loose or oxidized causing the starter to turn too slowly	Check the battery charge condition, clean the terminal clamps, tighten and cover them with acid-free grease
	Fuel supply too low, fuel system clogged by paraffin separation during winter	Replacing the fuel filter Check all line connections for leaks and tighten the fittings, bleed the fuel system Use winter fuel in winter
	Engine oil with wrong SAE viscosity class	Change the engine oil
	Air filter dirty	Clean, replace if necessary
	Turbo charger defective	Have examined by a specialist
Excessive exhaust smoke	Engine oil level too high	Check, drain off if necessary
	Air filter dirty	Clean, replace if necessary
	Poor compression because of burned or broken compression rings	Have examined by a specialist

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Table of contents

1 Introduction **11**
1.1 Foreword **12**
1.2 Machine type plate and engine type plate **14**
2 Technical data **15**
2.1 Noise and vibration data **20**
2.1.1 Noise data 20
2.1.2 Vibration data 20
3 Concerning your safety **21**
3.1 Basic prerequisites **22**
3.1.1 General 22
3.1.2 Explanation of signal words used: 23
3.1.3 Personal protective equipment 24
3.1.4 Intended use 25
3.1.5 Improper use 25
3.2 Definition of responsible persons **27**
3.2.1 Operating company 27
3.2.2 Expert / qualified person 27
3.2.3 Driver / operator 28
3.3 Fundamentals for safe operation **29**
3.3.1 Remaining dangers, remaining risks 29
3.3.2 Regular safety inspections 29
3.3.3 Modifications and alterations to the machine 29
3.3.4 Damage, defects, misuse of safety devices 30
3.3.5 Roll Over Protective Structure (ROPS) 30
3.4 Handling fuels and lubricants **31**
3.4.1 Preliminary remarks 31
3.4.2 Safety regulations and environmental protection regulations for handling diesel fuel 32
3.4.3 Safety regulations and environmental protection regulations for handling oil 34
3.4.4 Safety regulations and environmental protection regulations for handling hydraulic oil 36
3.4.5 Safety regulations and environmental protection regulations for handling coolants 38

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3.1.2 Explanation of signal words used:



DANGER!

Danger to life if failing to comply!

Sections marked accordingly indicate an extremely dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.



WARNING!

Danger to life or danger of severe injuries if failing to comply!

Sections marked accordingly indicate a dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.



CAUTION!

Danger of injury if failing to comply!

Sections marked accordingly indicate a dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.



NOTICE!

Danger of material damage if failing to comply!

Sections marked accordingly indicate possible dangers for machines or components.

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3.4.6 Safety regulations and environmental protection regulations for handling battery acid ... 40
3.5 Loading / transporting the machine ... **42**
3.6 Start-up procedure ... **44**
3.6.1 Prior to starting up ... 44
3.6.2 Starting the engine ... 45
3.6.3 Starting the engine with jump leads ... 45
3.7 Driving the machine; working operation ... **46**
3.7.1 Persons in the danger area ... 46
3.7.2 Driving the machine ... 46
3.7.3 Driving up and down slopes ... 47
3.7.4 Cross slope ... 48
3.7.5 Working with vibration ... 48
3.7.6 Working with the chip spreader ... 48
3.7.7 Parking the machine ... 49
3.8 Refuelling ... **51**
3.9 Regeneration of exhaust gas aftertreatment system ... **52**
3.10 Emergency procedures ... **53**
3.10.1 Actuating the emergency stop switch ... 53
3.10.2 Disconnecting the battery ... 53
3.10.3 Towing the machine ... 53
3.11 Maintenance work ... **55**
3.11.1 Preliminary remarks ... 55
3.11.2 Work on hydraulic lines ... 55
3.11.3 Working on the engine ... 56
3.11.4 Maintenance work on electric components and battery ... 57
3.11.5 Working on wheels and tyres ... 57
3.11.6 Cleaning work ... 58
3.11.7 After maintenance work ... 58
3.12 Repair ... **59**
3.13 Signage ... **60**
4 Indicators and control elements ... **69**
4.1 Driver's stand ... **70**
4.1.1 Overview ... 70
4.1.2 Instrument cluster ... 72

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Do not step between chip spreader and machine while the engine is running.

Always empty the chip spreader before mounting or removing it.

Loads must only be attached and hoisted by an expert / capable person.

Do not use damaged or in any other way impaired lashing points.

Use only lifting gear and lifting tackle with sufficient load bearing capacity for the weight to be loaded.

Fasten the lifting gear only at the specified lifting points.

Always use appropriate lifting and lashing means on the lifting and lashing points.

Use lifting and lashing gear only in the prescribed direction of load application.

Lifting tackle must not be damaged by components of the chip spreader.

Danger to the life of persons if they step or stand under a suspended load.

When lifting the machine, avoid uncontrolled movements of the load. If necessary, hold the load with guide ropes.

Always stand the chip spreader on level and firm ground.

3.7.7 Parking the machine

Park the machine on horizontal, level, firm ground.

Before leaving the machine:

- shift all control levers to “Neutral position”, “Off” or “0”,
- apply the parking brake,

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5.3 Checking the engine oil level

NOTICE!
Danger of engine damage!
- If the engine is warm, shut it down and check the oil level after five minutes. With a cold engine the oil level can be checked immediately.
- Use only oil of the permitted specification ⇨ *Chapter 8.2.1 „Engine oil“ on page 166*.

During the regeneration process part of the fuel may mix with the engine oil. This increases the amount of engine oil in the engine.

NOTICE!
Danger of engine damage!
- If the engine oil level is higher than the "MAX"-mark, the engine oil must be changed immediately.

Protective equipment:
- Working clothes
- Protective gloves

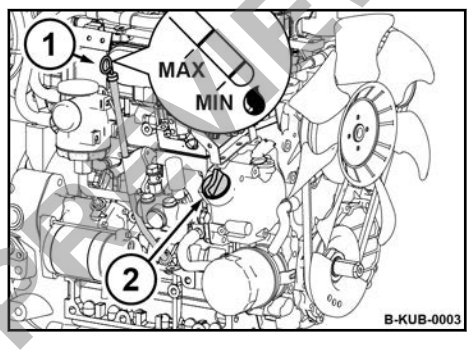


Fig. 65

1 Oil dipstick
2 Oil filler opening

1. Pull the dipstick out, wipe it off with a lint-free, clean cloth and reinsert it until it bottoms.
2. Pull the dipstick out again.
3. The oil level must always be between the "MIN"- and "MAX"-marks. If the oil level is too low, top up oil to the "MAX" mark immediately.

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WARNING!
Danger of body parts getting drawn in and crushed by the rotating shaft!
– Never carry out work while the engine is running.

Protective equipment:
- Working clothes
- Protective gloves

1. Park the machine in secured condition ↳ *Chapter 6.9 „Parking the machine in secured condition“ on page 129*.
2. Folding up the cover

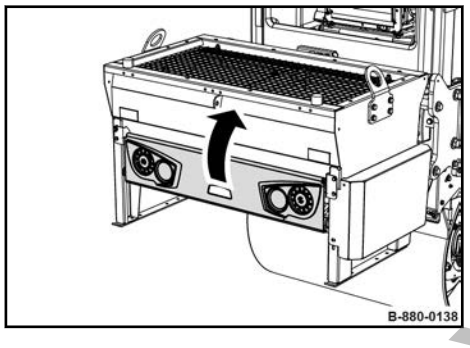


Fig. 135

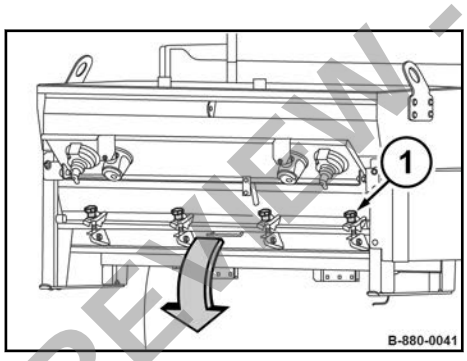


Fig. 136

3. Loosen the star handle screws (1).
4. Fold the spreading beam down a let all chipping material flow out.

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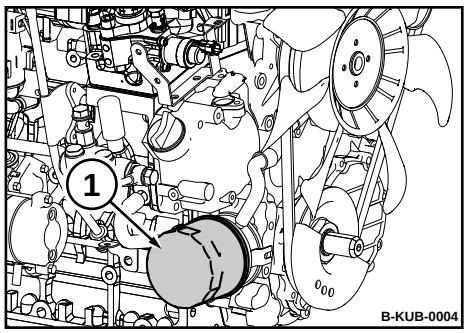


Fig. 183

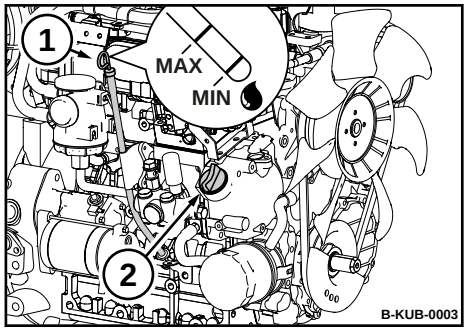


Fig. 184

1 Oil dipstick
2 Oil filler opening

4. Thoroughly clean the outside of the oil filter cartridge (1).
5. Unscrew the oil filter cartridge using an appropriate strap wrench.
6. Clean the sealing face on the filter carrier from any dirt.
7. Thinly apply oil to the rubber seal of the new oil filter cartridge.
8. Spin on the new oil filter cartridge and tighten it hand-tight.
9. Fill with new engine oil.
10. After a short test run check the oil level on the oil dipstick, if necessary top up to the “MAX” mark.
11. Check oil filter cartridge and drain plug for leaks.
12. Dispose of oil and filter in line with environmental regulations.

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