

Operator's Manual

Dumpers

5001/6001



Machine model	5001/6001
Edition	2.0
Order no.	1000190334
Language	EN



**WACKER
NEUSON**

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1.5 EC Declaration of Conformity for 6001 dumper



**WACKER
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EC Declaration of Conformity

According to Machine Directive 2006/42/EC, appendix II A

Manufacturer

Wacker Neuson Linz GmbH
Haidfeldstr. 37
A-4060 Linz-Leonding

Product

Machine designation:	Compact dumper
Machine model:	6001
Serial no.:	_____
Output (kW):	64,6 kW
Measured sound power level:	102.3 dB (A)
Guaranteed sound power level:	102 dB (A)

Conformity assessment procedure

Notified body according to Directive 2006/42/EC, appendix XI:
Fachausschüsse Bau und Tiefbau
Prüf- und Zertifizierungsstelle im BG-PRÜFZERT
Landsberger Str. 309
D-80687 Munich
Distinguishing EU number 0036

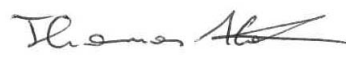
Notified body according to Directive 2000/14/EC, appendix VI:
TÜV SÜD Industrie Service GmbH
Westendstr. 199
D-80686 Munich

Directives and standards

We hereby declare that this product corresponds to the relevant regulations and requirements of the following Directives and standards:

2006/42/EC (old 98/37 EC), 2004/108/EC (old 89/336/EEC), 2002/44/EC, 2005/88/EC, 2000/14/EC;
DIN EN ISO 12100-1 and 2, DIN EN 474-1 and 6, DIN EN 14121,
DIN EN 3471, DIN EN 13510, EN ISO 3744, EN ISO 3746, DIN EN ISO 3449

Leonding, _____
Place, date


Thomas Köck,
Responsible for documentation


Josef Erlinger,
Managing director





2.7 Warning of special hazards

Electrical energy

- Use only original fuses with the specified current rating!
Switch off the machine immediately and rectify the malfunction if trouble occurs in the electrical system!
- When working with the machine, maintain a safe distance from overhead electric lines!
If work must be carried out close to overhead lines, the equipment/attachments must be kept well away from them. Caution, danger! Get informed on the prescribed safety distances!
- If your machine comes into contact with a live wire
 - Do not leave the machine
 - Drive the machine out of the danger area
 - Warn others against approaching and touching the machine
 - Have the live wire de-energised
 - Do not leave the machine until the line that has been touched or damaged has been safely de-energised!
- Work on the electrical system may only be carried out by a technician with appropriate training, in accordance with the applicable electrical engineering rules
- Inspect and check the electric equipment of the machine at regular intervals. Defects such as loose connections or scorched cables must be rectified immediately
- Observe the operating voltage of the machine/attachments!
- Always remove the earthing strap from the battery when working on the electrical system or when carrying out welding work!
- Starting with a battery jump cable can be dangerous if carried out improperly. Observe the safety instructions regarding the battery!

Gas, dust, steam, smoke

- Operate the machine only on adequately ventilated premises! Before starting internal combustion engines or operating fuel-operated heating systems on enclosed premises, make sure there is sufficient ventilation!
Observe the regulations in force at the respective site!
- Carry out welding, flame-cutting and grinding work on the machine only if this has been expressly authorised. There can be a risk of explosion and fire, for example!
- Before carrying out welding, flame-cutting and grinding work, clean the machine and its surroundings from dust and other inflammable substances, and make sure the premises are adequately ventilated – danger of explosions!



3.4 Putting into operation

Safety instructions

- Use footholds and handles **28** to access and leave the machine
- Never use control elements as handles
- Never get on or off a moving machine! Never jump off the machine

Putting the machine into operation for the first time

Important information

- The machine may be put into operation by authorised staff only
 - see [chapter Selection and qualification of staff, basic responsibilities](#) on page 2-4 and
 - see [chapter 2 Safety instructions](#) on page 2-1 of this Operator's Manual.
- The staff must have read and understood this Operator's Manual before putting the machine into operation.
- The machine must only be used in serviceable condition in accordance with its designated use and the instructions set forth in the Operator's Manual, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine.
- Go through the "Start-up" checklist in the following chapter.

Running-in period

Handle the machine carefully during its first 50 operating hours.

The future performance and service life of the machine are heavily dependent on the observance of the following recommendations during the running-in period.

- Do not overload the machine, but at the same time do not drive too cautiously either, as the machine will never reach its proper operating temperature.
- Do not run the engine at high revs for extended periods.
- Increase the load gradually while varying the engine speed.
- Strictly observe the maintenance schedules in the appendix – see [chapter 5.18 Maintenance plan \(overview\)](#) on page 5-36

3.6 Hazard warning system

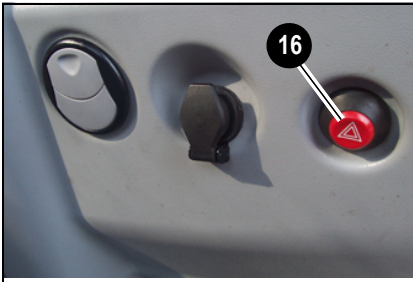


Fig. 34: Hazard warning system

Pressing switch **16** switches the hazard warning system on and off.

3.7 Low/high speed

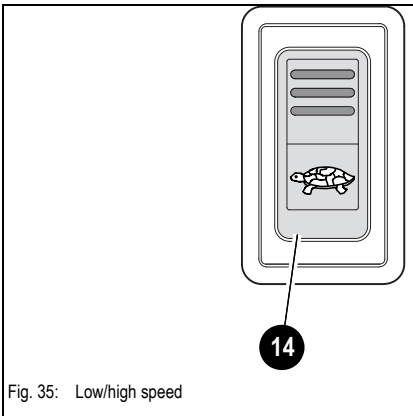


Fig. 35: Low/high speed

Use switch **14** to switch over between low and high speed.

The green telltale (turtle) in the switch comes on if low speed is enabled.

The green telltale in the switch goes out if high speed is enabled.

3.16 Air conditioning (option)

In order to achieve best cooling results:

- ☞ *Open the nozzles and direct them towards the headliner – see **Cab heating and ventilation** on page 3-27.*
 - ➔ This setting ensures good air circulation in the cab as the cool air flows to the cab floor.
- ☞ *Keep all windows and doors closed.*
- ☞ *Air the cab from time to time.*

i Notice!

Open the windows and the doors to allow hot air to escape. Then switch on air conditioning, and close the windows and the doors. Keep all windows and doors closed to achieve best cooling results.

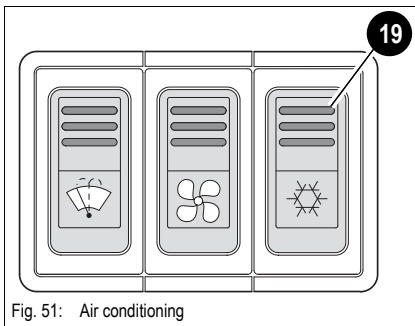


Fig. 51: Air conditioning

Air conditioning		
OFF	☞ <i>Press switch 19 up</i>	Fan OFF
1st speed	☞ <i>Press switch 19 (ventilation) 1 step down</i>	➔ Low fan speed
2nd speed	☞ <i>Press switch 19 (ventilation) 2 steps down</i>	➔ High fan speed

i Notice!

Let the air conditioning system run once a month for at least 10 – 15 minutes, to ensure the system's full capability and the durability of the seals – see **Air conditioning (option)** on page 3-28.

3.17 Washer system

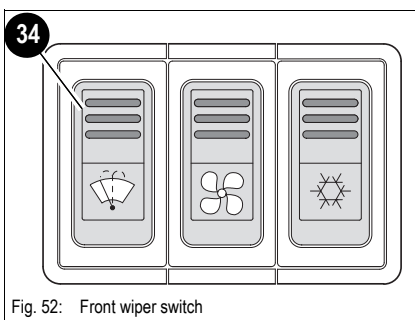


Fig. 52: Front wiper switch

Front window wiper		
OFF	☞ <i>Press switch 34 up</i>	➔ Front wiper returns to base position
1st speed	☞ <i>Press switch 34 down to the 1st position</i>	➔ Front wiper is on
2nd speed	☞ <i>Press switch 34 down to the 2nd position</i>	➔ Pump sprays washer water on the window

i Notice!

Do not actuate the washer system if the tank is empty, otherwise this can damage the electric pump.

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3.27 Crane handling the machine

Safety instructions

- The crane and the lifting gear must have suitable dimensions.
- Crane handling the machine requires suitable lifting gear.
- Secure the machine against unintentional movement!



Danger!

Incorrect crane handling of the machine –

Danger of accidents!

- ☞ *Make sure no-one is near the machine!*
- ☞ *Have loads fastened and crane operators instructed by experienced persons only! The person giving the instructions to the crane operator must be within sight or sound of him!*
- ☞ *Make sure the crane and the lifting gear (cables, chains) have sufficient lifting capacity!*
- ☞ *Raise the machine only if the skip is empty!*
- ☞ *Stay clear of suspended loads!*
- ☞ *It is essential that you read the safety instructions at the beginning of this chapter and follow any other safety instructions relevant in your country!*

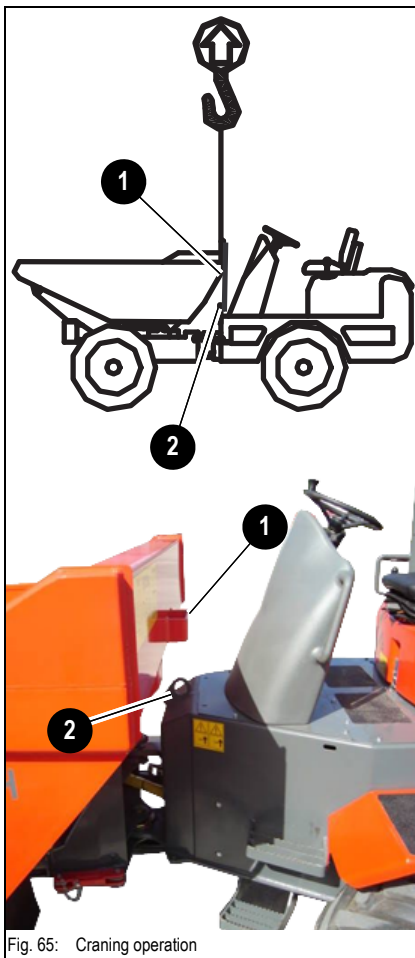
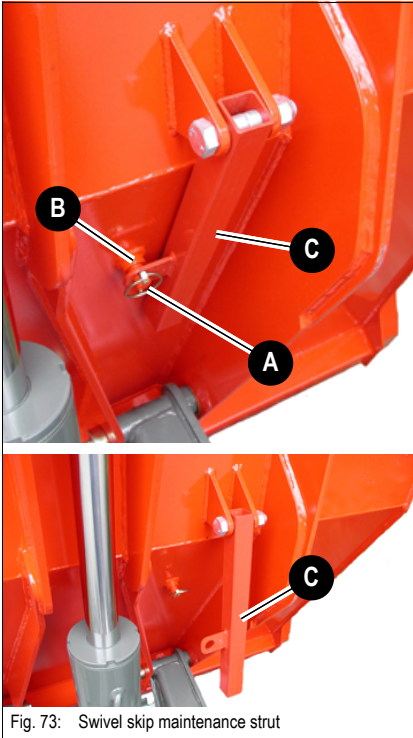


Fig. 65: Craning operation

☞ Load the machine as follows:

- Empty the skip.
- Lower the skip.
- Stop and park the machine
- Lock the control lever – see [chapter 3.26 Locking the control lever \(6001\)](#) on page 3-37 – see [chapter 3.25 Locking the control lever \(5001\)](#) on page 3-36
- The rollbar can be lowered to reduce the transport height.
- Put the articulated steering locking bar in place.
- Use suitable lifting gear, chains etc.
- ☞ Make the lifting gear pass through bracket **1** on the edge of the skip and fasten it on eye hook **2** on the chassis!
- Slowly raise the machine.

5.4 Maintenance strut 6001 (swivel skip)



Danger!

An improperly supported skip can drop unexpectedly during maintenance work.

Danger of crushing!

- ☞ Mount the red maintenance strut before you carry out maintenance work with the skip raised.

Procedure to follow:

- ☞ Raise the skip.
- ☞ Remove split pin **A** out of lock pin **B**.
- ☞ Fold down maintenance strut **C**.



Danger!

Persons can be struck or crushed by a skip that is being lowered too quickly.

- ☞ Lower the skip slowly until the strut is supported on the skip swivel frame.

- ☞ Lower the skip slowly until the strut is supported on the skip swivel frame.



Notice!

Fasten maintenance strut **C** on the skip again (in the reverse order) once maintenance work is over.

5.9 Axle mounting 6001



Caution!

Retighten the axle fastening screws every 50 service hours.



Danger!

Secure the machine with chocks under the wheels to prevent it from rolling away!

Front axle

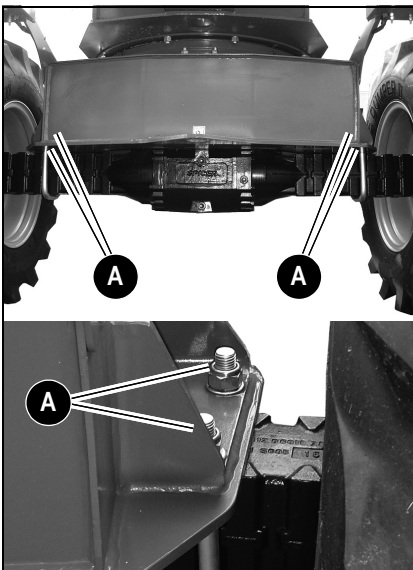


Fig. 83: Retighten the axle fastening screws

Proceed as follows:

- ☞ Park the machine on firm and level ground
- ☞ Prevents the machine from rolling away
- ☞ Retighten all 4 fastening screws **A**
 - ➔ Tightening torque: 850 Nm

Rear axle

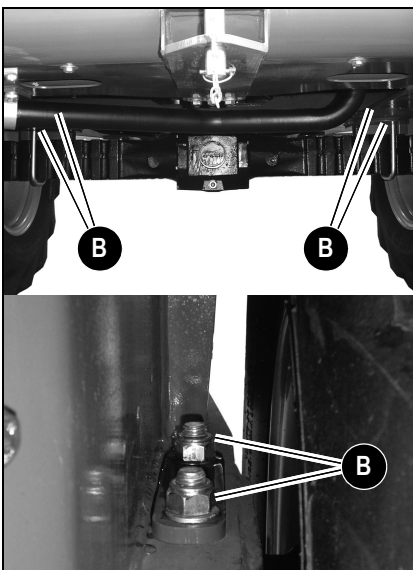


Fig. 84: Retighten the axle fastening screws

Proceed as follows:

- ☞ Park the machine on firm and level ground
- ☞ Prevents the machine from rolling away
- ☞ Retighten all 8 fastening screws **B**
 - ➔ Tightening torque: 490 Nm

Checking hydraulic pressure lines

Specific safety instructions



Danger!

Caution when checking hydraulic lines, especially when searching for leaks. Hydraulic oil escaping under high pressure can penetrate the skin and cause serious injuries.

Danger of personal injury!

☞ *Always consult a doctor immediately, even if the wound seems insignificant – otherwise serious infections could set in!*

☞ *Always observe the following instructions:*

- Retighten leaking screwed fittings and hose connections only when the system is not under pressure; i.e. release the pressure before working on pressurised lines!
- Never weld or solder damaged or leaking pressure lines and screw connections. Replace damaged parts with new ones!
- Never search for leaks with your bare hands, but wear protective gloves!
- Use paper or wood to check for minor leaks. Never use an unprotected light or naked flame!
- Have damaged flexible lines replaced by authorised workshops only!

-
- Leaks and damaged pressure lines must be immediately repaired or replaced by an authorised workshop or after-sales staff.
This not only increases the operating safety of your machine but also helps to protect the environment.
 - Replace hydraulic hoses every 6 years from the date of manufacture, even if they do not seem to be damaged.

In this respect, we recommend that you observe all the relevant safety regulations for hydraulic lines, as well as the safety regulations regarding accident prevention and occupational health and safety in your country. Also observe DIN 20066, part 5.



Component/ application		Engine/machine fluid	Specification	Season/tempera- ture	Capacities ¹
Axles (6001)					
Front axle	Differential	Gearbox oil	LS85W90	Once a year or every 1000 s/h	7.9 l (2.1 gal)
	Semi-axle				0.85 l (0.2 gal)
Rear axle	Differential	Gearbox oil	LS85W90	Once a year or every 1000 s/h	5.6 l (1.5 gal)
	Semi-axle				0.9 l (0.24 gal)
	Transfer gear-box				0.85 l (0.2 gal)

1. The capacities indicated are approximative values; the oil level check alone is relevant for the correct oil level
1. Capacities indicated are no system fills
2. According to DIN 51524 section 3
3. Depending on local conditions, see hydraulics oil grade
4. According to ISO 6743/4
5. Hydraulic ester oils (HEES)
6. KF2K-25 according to DIN 51502 multipurpose lithium grease with MoS² additive
7. Standard acid-proof grease
8. Sulphur content below 0.05 %, cetane number over 45
9. According to DIN 51524 section 3

Oil grades for the diesel engine, depending on temperature

Engine oil grade	Ambient temperature (C°)														
	°C	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	
API JASO DH-1, CF, CF-4, CI-4 ACEA E3, E4, E5	SAE 10W														
	SAE 20W														
	SAE 10W-30														
	SAE 10W-40														
	SAE 15W-40														
	SAE 20														
	SAE 30														
	SAE 40														
		°F	-4	5	14	23	32	41	50	59	68	77	86	95	104

Oil grades for the hydraulic system, depending on temperature

6.7 Skip

Skip	Model 5001	Model 6001F	Model 6001S
Skip capacity	2000 l (528 gal) struck	2400 l (634 gal) struck	
	2700 l (713 gal) heaped	3200 l (845 gal) heaped	
	1400 l (370 gal) liquid capacity	1880 l (496.6 gal) liquid capacity	
Payload	5000 kg (11023 lbs.)	6000 kg (13227.7 lbs.)	
Angle of rotation	180 – 217°	-180 – 213°	

6.8 Drive specifications

Steering system	Model 5001	Model 6001
Drive speed I	0 – 8 kph (0 – 5 mph)	0 – 5 kph (0 – 3.1 mph)
Drive speed II	0 – 25 kph (0 – 15.5 mph)	0 – 25 kph (0 – 15.5 mph)
Articulation	+/- 37°	+/- 33°
Oscillation	+/- 15°	
Outside turning radius	4100 mm (13'5")	5200 mm (17'1")
Hill climbing ability	50 % (theoretically)	
Safe authorised inclination	25 % in all drive positions left/right	

6.9 Electrical system 5001

Electrical system	
Alternator	12 V 55 A
Starter	12 V 2.6 kW
Battery	12 V 88 Ah

Fuse box

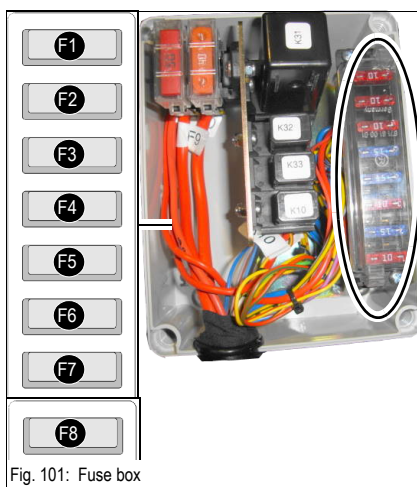


Fig. 101: Fuse box

Fuse	Rated current (A)	Protected circuit
F 1	10A	– Indicator, fuel supply
F 2	10A	– Drive solenoid valves
F 3	10A	– Horn, brake lights
F 4	15A	– Turn indicators
F 5	15A	– High beam
F 6	10A	– Low beam
F 7	15 A	– Clearance light
F 8	10A	– Hazard warning system



7 Safety instructions for operation of earth moving machines

7.1 Preliminary remark

The following machines are designated as earth moving machines:

- Excavators
- Loaders
- Backhoe loaders
- Dozers
- Dumpers
- Scrapers
- Graders
- Pipe laying machines
- Trench cutting machines
- Compactors and
- Other special earthmoving machines.

Instructions for the safe operation of earth moving machines are given in the following.

Also comply with the national safety standards – such as regulations for accident prevention or safety guidelines for machine maintenance – during operation and maintenance of earth moving machines.

In addition to the Operator's Manual, also bear in mind the legal regulations concerning public road traffic and accident prevention. These regulations may also deal with handling hazardous substances or wearing personal protective equipment.

Also bear in mind the existing safety regulations concerning specific work sites (tunnels, day drifts, quarries, pontoons, contaminated areas, etc.).

7.2 Designated use

- 7.2.1 Earth moving machines may be used only in compliance with their designated use, and by following the instructions given in the Operator's Manual of the manufacturer.
- 7.2.2 Designated use means that the earth moving machine is used with the work equipment for work in compliance with the European or national work safety regulations, or that the earth moving machine is used for other work the manufacturer has deemed the machine to be suitable for.
- 7.2.3 The operator may not carry out any safety-relevant modifications on the earth moving machine without the manufacturer's authorisation.
- 7.2.4 Spare parts must comply with the technical requirements specified by the manufacturer.

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