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Operating manual

Wheel loader

L 556-454 2plus2

From serial number 20545

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Manufacturer: Liebherr-Werk Bischofshofen GmbH
Type: L 556 2plus2
Type no.: 454
Serial no. from: 20545
Conformity:



Contact

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19. Only drive downhill within the permitted speed limit, otherwise you could lose control of the machine.
The engine must be running at the rated speed and you should only reduce the travel speed using the pedals.
Shift down to a lower gear before reaching the slope. Do not wait until you are actually on it.
20. When loading a truck, insist on the driver getting out of his cab, even if it is protected against stone impact.
21. When performing work such as demolition work, clearance and crane operation, always use the protective equipment provided for these specific tasks.
22. Have someone direct you when vision is restricted and whenever else it is necessary.
Only let one person give you signals.
23. Only allow experienced personnel to sling loads and direct crane drivers.
The person giving directions must remain in sight of the operator or at least be in spoken contact with him.

2.4.7 Safety instructions for driving on slopes

1. On downward slopes, always drive carefully and never at top speed, as you could otherwise lose control over the machine.

Travel speeds:
 - Never exceed the speed limits specified in the **operating manual**.
 - Exceeding the maximum speed causes the permitted limits to be exceeded for all rotating parts, including the drive motor, the drive shaft, all gears including axles and ultimately the engine itself.
2. Before driving onto a slope, therefore select a travel range (gear) in which you can safely negotiate the whole slope without endangering yourself, the machine and other people.
3. Also, take your foot off the gas pedal when driving onto a slope.

2.4.8 Parking safely

1. When possible, always park the machine on flat, firm ground.
If you have to park on a slope, use wheel wedges to prevent the machine from moving.
2. If the machine has articulated steering, engage the articulation lock.
This only applies to wheel loaders with articulated steering.
3. Lower the digging attachment so that it is lightly anchored in the ground.
4. Move all control levers to the neutral position and engage the parking brake.
5. Shut down the engine in accordance with the instructions in the **operating manual**.
6. Lock the working hydraulics before leaving the driver's cab.
Lock the working hydraulics in accordance with the instructions in the **operating manual**.
7. Lock up the machine, take out all keys and secure it against unauthorised use and vandalism.

2.4.9 Transporting the machine safely

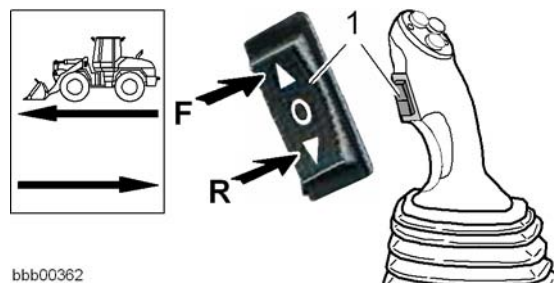
1. Only use suitable transport equipment and lifting gear with sufficient load capacity.
2. Park the machine on flat ground and use wedges to secure the tracks or wheels.
3. If necessary, dismantle the working attachment for the duration of transport.

Switching the travel direction

The travel direction cannot be selected while the parking brake is engaged.

You can change the travel direction using switch 1 on the LH control lever.

See the section on driving in chapter 3.



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Fig. 191 LH control lever

- | | | | |
|----------|----------------------------|----------|----------------------------|
| 1 | Travel direction switch | 0 | = Neutral travel direction |
| F | = Forward travel direction | R | = Reverse travel direction |

Selecting the travel direction:

- Press the switch **1** according to the direction you want to travel in.
 - ▷ Symbol fields are used to show the selected travel direction on the instrument panel in the display unit.
 - ▷ See the section on the display unit in chapter 3.

Activating the kick-down function

When the electrical system is switched on, the automatic travel range **A1-3** is selected and the travel drive is set to neutral **N**.

Both are shown in the display unit.

The kick-down function can only be selected when the machine is moving.

Kick-down shifting is possible while moving forwards or reversing in the following travel ranges: **2**, **A1-2**, **A1-3**, **A2-3** and at every travel speed.

Use: see the section on kick-down shifting in the driving section.

Dumping

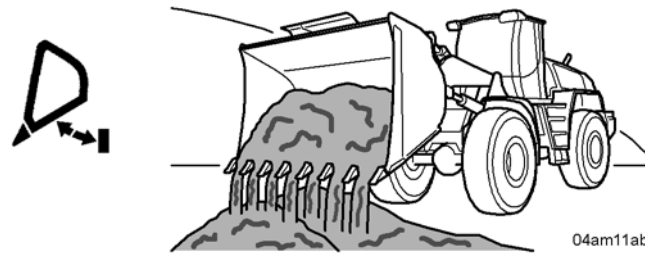


Fig. 345 Dumping

- Tip out the bucket.

To loosen material adhering to the bucket:

- Quickly tilt the bucket in and out, briefly jolting against the bucket arm stops.

3.4.5 Removing material from a slope or wall

Removing material from a slope

This is how to remove normal material such as sand or gravel.



Fig. 346 Removing bulk material 1

- Start at the foot of the slope and work upwards.

Service code	Effect	Cause	Remedy
M4036	No ride control available	Ride control: shorted at output	Check fuse F56 - contact LIEBHERR CUSTOMER SERVICE
M4037	No ride control available	Ride control: interruption at output	Check fuse F56 - contact LIEBHERR CUSTOMER SERVICE
M4038	No ride control or float position	Float position / ride control: shorted at output	Check fuse F56 - contact LIEBHERR CUSTOMER SERVICE
M4039	No ride control or float position	Float position / ride control: interruption at output	Check fuse F56 - contact LIEBHERR CUSTOMER SERVICE
M403A	Only reverse travel possible	Forward travel direction (pump 2): shorted at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M403B	Only reverse travel possible	Forward travel direction (pump 2): interruption at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M403C	Only forward travel possible	Reverse travel direction (pump 2): shorted at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M403D	Only forward travel possible	Reverse travel direction (pump 2): interruption at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M403E	Additional equipment 1 cannot be activated	Additional equipment 1: shorted at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M4040	Additional equipment 2 cannot be activated	Additional equipment 2: shorted at output	Check fuse F52 - contact LIEBHERR CUSTOMER SERVICE
M4042	No joystick steering available	Joystick steering, left: shorted at output	Check fuse F51 - contact LIEBHERR CUSTOMER SERVICE
M4044	No joystick steering available	Joystick steering, right: shorted at output	Check fuse F51 - contact LIEBHERR CUSTOMER SERVICE
M4046	No Gerotor steering (2in1) available	Gerotor steering (2in1): shorted at output	Check fuse F51 - contact LIEBHERR CUSTOMER SERVICE
M4047	No Gerotor steering (2in1) available	Gerotor steering (2in1): interruption at output	Check fuse F51 - contact LIEBHERR CUSTOMER SERVICE
M4048	2in1 Gerotor steering joystick does not work	Output module 1: Voltage returned at output (bank 4) although it was not activated - wiring or module 2 defective	Check fuse F47 - contact LIEBHERR CUSTOMER SERVICE

5.21 Corrosion protection

If the machine will not be used for more than 4 weeks, especially on sea journeys, the following measures must be taken.

5.21.1 Protecting the piston rods from corrosion

Use a non-acidic corrosion protection grease to protect against corrosion.

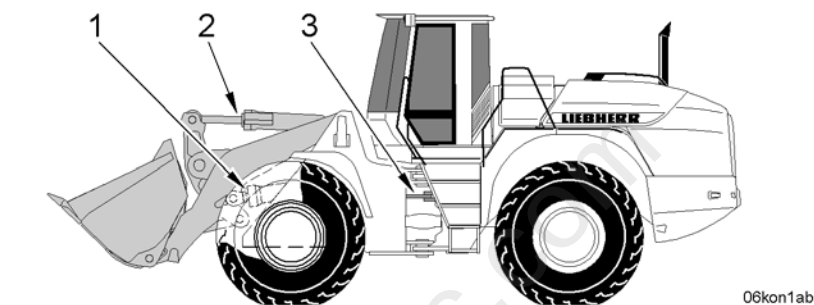


Fig. 534

- | | | | |
|---|---------------|---|-------------------|
| 1 | Lift cylinder | 3 | Steering cylinder |
| 2 | Tilt cylinder | | |

- ▶ Shut down the machine so that all piston rods are retracted as far as possible in their cylinders.
- ▶ Smear all exposed piston rods with a thick layer of oxygen-free anti-corrosion grease.



Note

If the cylinder piston rods are not coated with hydraulic oil for a prolonged period:

- ▶ Smear all piston rods with oxygen-free anti-corrosion grease.

When moving a machine thus protected for loading or transport, the scraper removes the grease from the piston rods in the cylinders.

If the machine is transported:

- ▶ Check the corrosion protection on the piston rods once again after loading.

Full Version Available

Liebherr L 556 2plus2 Wheel Loader Operator Manual

Liebherr L 556 2plus2 wheel loader operator manual covering controls, safe operation, setup, daily checks and care. Searchable PDF. Instant PDF download.

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