OPERATOR'S MANUAL

Wheel Loaders LW50.B



NEW HOLLAND
CONSTRUCTION

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OPERATION - SAFETY INSTRUCTIONS

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⚠ WARNING

Operating instructions

Never operate the machine before having read and understood the operating instructions.

Pay special attention to:

"Fundamental Safety Instructions" and all warnings and safety instructions attached to the machine.

Familiarize yourself with the layout, the functioning and the activating devices of the control elements prior to starting up the machine.
Activate the control elements from the driver's seat only.

Keep the operating instructions with the machine at all times.

Operating personnel

The operating personnel must be fully informed of the operation and application of this or comparable machines.

The necessary know-how can be acquired in several days' instruction.

Personal protective wear and working clothing

Wear a safety helmet and working footwear with non-slip soles. Smooth soles may slip from steps and pedals, resulting in injury or incorrect operation.

Wear closely fitting working clothing when operating the machine. Loose, wide garments may result in the control lever being inadvertently activated.

⚠ WARNING

Safety belt

For machines with a safety belt for operating personnel:

Check safety belt attached to driver's seat. In the event of damage or after an accident, have it replaced immediately.

Apply safety belt before starting work.

State of the machine

Operate the machine only in a safe state and only in accordance with its designated use. Always observe the safety instructions.

Always have inspection and maintenance work carried out on schedule.

Operate the machine only with the equipment and component combinations approved by NEW HOLLAND CONSTRUCTION.

Before starting work or travelling with the machine, check that the braking, steering, signalling and lighting systems are fully functional.

Poor visibility may result in accidents. Always clean the windows and the glass covers of all lights before starting up the machine.

Check that all warnings and safety instructions attached to the machine are present and legible.

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Plan B - after every 500 HOURS
(at 500, 1500, 2500 ... HOURS)

Plan D - after every 3000 HOURS
(at 3000, 6000, 9000 ... HOURS)

Plan C - after every 1000 HOURS
(at 1000, 2000, 4000 ... HOURS)

Component designation	Servicing activity	Oil / Grease	Quantity / Number	Plan B	Plan C	Plan D
Axle						
Planetary gearbox	Check oil level in acc. with oil-checking chart		2 x 2	●	●	●
Front axle	Change oil in acc. with oil-checking chart [1]		1		●	●
Rear axle	Change oil in acc. with oil-checking chart [1]		1		●	●
Transfer gearbox	Change oil in acc. with oil-checking chart [1]		1		●	●
Planetary gearbox	Change oil in acc. with oil-checking chart [1]		2 x 2		●	●
Cardan shaft	Grease in acc. with lubricating chart			●	●	●
Heating	Check for leaks			●	●	●
Filter	Clean / replace		1	●	●	●
Driver's cab						
Fastening screws	Check tightness			●	●	●
Breather filter	Replace		1	●	●	●
Hinges	Grease in acc. with lubricating chart		2	●	●	●

[1] Oil change after 1 year at the latest □

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Lifting forks

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Checking of fork prongs

The fork prongs must be checked:

- at regular intervals at least, however, once a year;
- if remaining deformations are detected.

Each fork prong is identified in the upper part of the fork guide with the admissible carrying capacity and the pertaining center-of-gravity distance.
Checking of carrying capacity and checking for the presence of cracks:

- Measure the distance L2 between check marks 1 and 2 (Fig. 1).
- Test each fork prong independently by applying the highest admissible load (max. carrying capacity) at the pertaining center-of gravity distance.

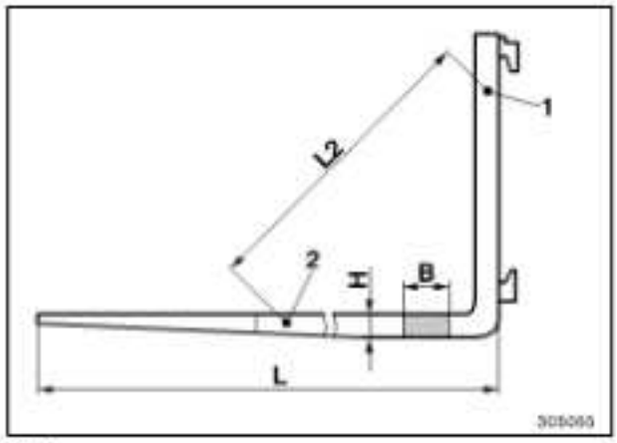


Fig. 1

- Remove load.
- Measure distance L2 again.
- Renew prong if measured distance L2 (see table) exceeds the admissible max. value L2 max.
  L2 max. = 102 % of L2.

L	L2	L2 max.
< 1 000 mm < (39.37 in) > 1 000 mm > (39.37 in)	500 ± 2 mm (19.69 ± 0.08 in) 1 000 ± 2 mm (39.37 ± 0.08 in)	510 mm (20.08 in) 1 020 mm (40.16 in)

After successful testing check each prong with suitable means (e.g. dye-penetration test) for the presence of cracks. Renew cracked prongs immediately.

WARNING

Fork prongs must be repaired in specialized repair shops only.

Continuing to use a fork prong with a lower carrying capacity than indicated is admissible on condition that:

- the mark indicating the old carrying capacity has been replaced clearly and distinctly by the new carrying capacity.
- the fork prong successfully passes a load test with the new carrying capacity without remaining deformation.

Checking of wear

The table below gives the most important prong dimensions (width B and thickness H) for wheel-mounted loaders.

Loader Type	B x H mm x mm (in x in)	H_{min} mm (in)
LW 50	100 x 45 (3.94 x 1.77)	41 (1.61)

- Measure width B and thickness H of each prong (Fig. 2).
- Compare the measured values with the B x H values in the abov table.
- Renew fork prong immediately if thickness H is less than the admissible minimum value H_{min}.

Also check the fork locking system at regular intervals for perfect functioning.

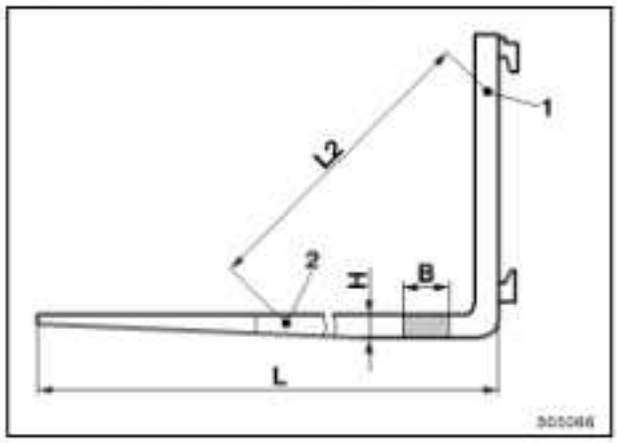


Fig. 2 □

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