

SERVICE MANUAL

LW230.B
WHEEL LOADER

6036706100NA



NEW HOLLAND
CONSTRUCTION

S U M M A R Y

SAFETY RULES	pag. 1
TECHNICAL FEATURES OF WHEELED LOADER LW230.B	pag. 8
TABLE OF FLUID CAPACITIES	pag. 11
UNITS OF MEASURE USED IN THE MANUAL	pag. 12
TORQUE TABLES	pag. 13

ENGINE	Section 1
TRANSMISSION	Section 2
BRAKES SYSTEM	Section 3
STEERING SYSTEM	Section 4
BUCKET BOOMS AND FRAME	Section 5
EQUIPMENT HYDRAULIC SYSTEM	Section 6
ELECTRICAL SYSTEM	Section 7
CAB	Section 8

SAFETY RULES

GENERALITIES

Read this Manual carefully before starting, operating, maintaining, fuelling or servicing the machine.

Read and comply with all safety precautions before any intervention.

Do not allow unauthorised personnel to operate or service this machine.

Do not wear rings, wrist watches, jewellery, loose or hanging garments, such as ties, torn clothing, scarves, unbuttoned or unzipped jackets that can get caught in moving parts. Wear certified safety clothes such as: hard hat, no-slip footwear, heavy gloves, ear protection, safety glasses, reflector vests, respirators. Ask your employer about specific safety equipment requirements.

Keep the operator's compartment, step plates, grab-rails and handles clean and clear of foreign objects, oil, grease, mud or snow to minimize the danger of slipping or stumbling. Remove mud or grease from your shoes before attempting to mount or operate the machine.

Do not jump on or off the machine. Always keep both hands and one foot, or both feet and one hand in contact with steps and grab rails.

Do not use controls or hoses as hand holds when climbing on or off the machine. Hoses and controls are movable parts and do not provide solid support. Besides, controls may be inadvertently moved and cause unexpected movement of the machine or its attachments.

Never operate the machine or its attachments from any position other than sitting in the driver's seat.

Keep head, body, limbs, hands and feet inside the operator's compartment at all times to reduce exposure to external hazards.

Be careful of possible slippery conditions of the steps and hand rails as well as of the ground around the machine.

Do not leave the machine until it has come to a complete stop.

Check the seat safety belt at least twice per year and replace it if it shows signs of wear, fraying or other weakness that could lead to failure.

STARTING

Never start or operate a FAILED machine. Before operating the machine, always ensure that any unsafe condition has been satisfactorily corrected.

Check brakes, steering and attachment controls before moving off. Report any malfunctioning part or system to the maintenance managers for proper action.

Ensure all protective guards and panels as well as all safety devices provided are in place and in good operating condition.

Ensure that nobody is in the machine operating range before moving off or operating the attachment. WALK completely around the machine before mounting. Sound the horn.

Before starting machine, check, adjust and lock the driver's seat for maximum comfort and control of the machine.

Fasten your seat belts(when fitted).

Obey all flag signals and signs.

Due to the presence of flammable fluids on the machine, never check or fill fuel tanks or accumulator batteries near fires, open flames, or sparks.

remember that SPECIAL starting fluids ARE flammable. Scrupulously follow recommendations printed on the containers and in this Manual.

do not puncture or burn containers.

Containers must be stored in fresh, well ventilated places and out of the reach of unauthorised persons. Strictly follow the instructions provided by the Manufacturer.

Never use these products near fires, open flames, or sparks.

OPERATING

Check wheel and rim retainers before each working shift. If necessary, tighten to the torque specified.

Do not run the engine of this machine in closed buildings without proper ventilation capable to remove harmful exhaust gases.

Roll Over Protective Structures (ROPS) are required on wheel or crawler loaders, dozers, or graders. never operate the machine if such protective structure is removed.

Keep the operator's compartment free of foreign objects, especially if not firmly secured. Never use the machine to transport objects, unless proper securing points are provided.

do not carry riders on THE machine

Study and familiarize with escape routes alternate to normal exit routes.

According to law provisions, seat belts must be fitted with Roll Over Protection Structures or cabs. Keep safety belts fastened during operation.

For your personal safety, do not climb on or off the machine while it is in motion.

Make sure that bystanders are clear of the machine operating range before starting the engine and operating the attachment. Sound the horn. Obey all indications provided by flags, signs and signals.

SAFETY RULES

DO NOT COAST OR FREEWHEEL down hills. Engage the most suitable gear speed to keep the machine under control.

Do not operate the machine if you are extremely tired or feel ill. Be especially careful towards the end of the working shift.

Do not operate a machine with misadjusted brakes.

Operate the machine at low speed which can ensure complete control at all times.

Travel slowly over very rough terrain, slopes or near drop-offs, in congested areas or on frozen or slippery surfaces.

When backing, always look to where the machine is to be moved. Be alert of the position of bystanders. Should someone enter the work area, stop the machine.

Maintain a safe distance from other machines or obstacles to ensure required visibility conditions. Give way to loaded machines.

Maintain a clear vision of the surroundings of the travel or work area at all times. Keep cab windows clean and repaired.

When machines are operating in tandem, the pusher (rear) must be equipped with the appropriate deflectors to protect the front unit driver against the air stream coming from the blower fan.

When pulling or towing through a cable or chain, do not start suddenly at full throttle. Take-up slack carefully.

Carefully inspect the towing items for flaws or problems before proceeding.

Avoid kinking or twisting chains or cables. Do not pull through a kinked chain or cable as the high stresses existing in this condition may induce failures. Always wear heavy gloves when handling chains or cables.

Chains and cables should be securely anchored. Anchor points should be strong enough to withstand the expected load. Keep anyone clear of anchor points and cables or chains.

do not pull unless the operator's compartments of the machines involved are properly protected against possible backlashes in case of cable or chain failure or detachment.

Be alert of soft ground conditions close to newly constructed walls. The fill material and machine weight may cause the wall to collapse.

In darkness, check area of operation carefully before moving in with the machine. Use all lights provided. Do not move into low visibility areas.

If the engine tends to stall for whatever reason under load or at idle, immediately report this problem to the maintenance managers for proper action. Do not operate the machine until this condition has been corrected.

On machines fitted with suction radiator fans, regularly check the engine exhaust system for leaks, as exhaust fumes expelled towards the operator are toxic.

Operators must know thoroughly the performances of the machine they are driving. When working on slopes or near sudden level drops in the terrain, avoid areas where ground is loose or soft since overturn or loss of machine control could result.

If noise level is high and continuously exceeds 90 dBA over 8 hours at the operator's ear, wear approved ear protection in compliance with local regulations.

Where counterweights are provided, do not operate the machine if they have been removed.

When transporting a loaded bucket, keep it as rolled-back and low as possible for maximum visibility, stability and safety of the machine. Ground speed should be adequate to the load and ground conditions.

The load must always be properly arranged in the bucket; move with extreme care when transporting oversized loads.

Use only the type of bucket recommended for the machine and the materials to be handled. Follow the recommendations concerning loading capacity, arrangement of the materials, characteristics of the ground and job to be performed.

Do not lift and move loads overhead where persons are standing or working, nor downhill when working crosswise on slopes. In this case, the bucket should be unloaded on the uphill side, whenever possible.

Start and stop the machine carefully when the bucket is full. Do not move off without first reducing engine speed.

Overtaking manoeuvres should be performed only when absolutely necessary and unavoidable. Beware possible uneven terrains, poor visibility, presence of other machinery or persons out of sight.

Operate the machine at a speed adequate to the working site conditions and in any case slow enough to ensure complete control at all times.

Check instruments at start-up and frequently during operation. Stop the machine immediately should any malfunction be signalled.

Never use the bucket as a man lift or to carry riders.

Never use the machine as a work platform or scaffolding, nor for other improper use (such as pushing railway cars, trucks or other machines).

Pay attention to people within the machine operating range. Load trucks from the driver's side whenever possible.

Prior to operating the machine, check which obstacles and/or difficulties you will encounter, such as narrow streets, overhead doors, cables, piping, as well as ground, bridges, paving and ramps bearing load limitations.

In case of road transfers, find out beforehand what conditions are likely to be encountered, such as size restrictions, heavy traffic, paving type, etc. Beware fog, smoke or dust that obscure visibility.

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