



# Service Manual

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**W270** EVOLUTION

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# W270 EVOLUTION

## WHEEL LOADER

### Service Manual

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THIS ALERT SYMBOL SIGNALS IMPORTANT MESSAGES INVOLVING YOUR SAFETY.

Read and heed carefully the safety instructions listed and follow the precautions recommended to avoid potential risks and to safeguard your health and your safety.

You will find this symbol in the text of this Manual referred to the following key words:

**WARNING** - Cautions directed to avoid improper repair interventions involving potential consequences for the operator's safety.

**DANGER** - These warnings qualify specifically potential dangers for the safety of the operator or other persons directly or indirectly involved.

#### IMPORTANT NOTICE

All maintenance and repair interventions explained in this Manual **must be performed exclusively by the Service Organization of the Manufacturer**, observing strictly the instructions explained using, whenever necessary, the recommended specific tools.

Whoever performs the operations reported without following exactly the precautions is responsible on his own, for the damages that may result.

Neither the Factory nor any Organizations in its Distribution Network, including but not limited to national, regional or local distributors, are responsible for any liability arising from any damage resulting from defects caused by parts and/or components not approved by the Factory for use in maintaining and/or repairing products manufactured or merchandized by the Factory.

In any case, no warranty of any kind is made or shall be imposed with respect to products manufactured or merchandized by the Factory, when failures are caused by the use of parts and/or components not approved by the Factory.

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## AVOID ACCIDENTS

Most accidents and injuries occurring in industry, on the farm, at home or on the road, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason, **MOST ACCIDENTS CAN BE PREVENTED** by recognizing the real cause and taking the necessary precautions, before the accident occurs.

Regardless of the care used in design and construction of any type of equipment, there may be conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against accidents. The complete observance of one simple rule would prevent many thousands serious injuries each year.

This rule is: Never attempt to clean, lubricate or adjust a machine while it is in motion.



### WARNING

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**On machines having hydraulically, mechanically and/or cable controlled equipment (such as showels, loaders, dozers, scrapers etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing.**

**If it is necessary to have the equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical device used for controlling the equipment.**

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# S U M M A R Y

SAFETY RULES .....	page 1
TECHNICAL SPECIFICATIONS .....	page 8
DIMENSIONS AND WEIGHTS .....	page 10
TABLE OF FLUID CAPACITIES .....	page 11
TORQUE TABLES .....	page 12
<b>ENGINE .....</b>	<b>Section 1</b>
<b>TRANSMISSION .....</b>	<b>Section 2</b>
<b>BRAKES SYSTEM .....</b>	<b>Section 3</b>
<b>STEERING SYSTEM .....</b>	<b>Section 4</b>
<b>BUCKET BOOMS AND FRAME .....</b>	<b>Section 5</b>
<b>EQUIPMENT HYDRAULIC SYSTEM .....</b>	<b>Section 6</b>
<b>ELECTRICAL SYSTEM .....</b>	<b>Section 7</b>
<b>CAB .....</b>	<b>Section 8</b>

## 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.

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

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