

8465 ENGINE

Service manual

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home or on the highway, 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 doing something about it before the accident occurs.

Regardless of the care used in the design of construction of any type of equipment there are many conditions that control completely safeguarded against without interfering with reasonable considerable in billity and efficient operation.

A careful operator is the best insurance against an accident. The complete observance of one simple rule and provent many thousand serious injuries each year. That rule is:

Never attempt cl,, oil or adjust a machine while it is in motion.

WARNING

On machines having hydraulically, mechanically, and/or cable controlled equipment (such as shovels, 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 hydraulically, mechanically, and/or cable controlled 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 devices used for controlling the equipment.

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Form N°. 604.06.543 - English



THIS SYMBOL TYC IR S FETY ALERT SIGN. IT MEANS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

Carefully read and heed the safety instructions and recommended cautions to avoid danger and harm tryy rhealth and prevent injury.

In this manual you will find the above symbol next to the following words:

W. ?Nin/G- When the cautions are finalized to avoid improper repair procedures with potential or equences involving the safety of the person performing the job.

DANGER - When the cautions signal specifically potential danger of harm to the operator or to other persons either directly or indirectly involved.

IMPORTANT

All maintenance and repair procedures explained in this manual **must be performed exclusively by the Service Network of the Factory,** following strictly the indications provided and using, whenever necessary, the specific tooling as indicated.

Whoever performs the operations described in this manual without strictly respecting the procedures indicated, is directly responsible for any liability arising for any consequential damages.

Neither the Factory nor any organization in its distribution chain, including but not limited to national, regional of 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 product manufactured or merchandized by the Factory.

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

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SAFETY RULES

GENERAL

Study the Operation and Maintenance Instruction Manual before starting, operating, maintaining, fueling, or servicing machine.

Read and heed all machine-mounted safety signs before starting, operating, maintaining, fueling or servicing machine.

Machine-mounted safety signs have been color coded yellow with black border and lettering for *WARNING* and red with white border and lettering for *DANGER* points.

Never attempt to operate the machine or its tools from any position other than seated in the operator's seat. Keep head, body, limbs, hands and feet inside operator's compartment at all times to reduce exposure to hazards outside the operator's compartment.

Do not allow unauthorized personnel to operate service or maintain this machine.

Always check work area for dangerous features. The following are examples of dangerous work areas: slope over hangs, timber, demolitions, fire, high walls, drop off, bat fir, rough terrain, ditches, ridges, excavations, heavy traffic, crowded parking, crowded maintenance and classifications. Use extreme care when in areas such as the second state of the second sec

An operator must know the machine's are it ities. When working on slopes or near drop off one art it void loose or soft conditions that could call a lidd in tipping or loss of control.

Do not jump on or off reship. It sep two hands and one foot, or two feet and one hand in contact with steps grab rails and handles at all time.

Do not use controls on loss as hand holds when climbing on or off machin. He sees and controls are movable and do not provide as a support. Controls also may be inadvertently moved as a support accidental machine or equipment movement.

Key reversion's compartment, stepping points, grab-rails and nandles clear of foreign objects, oil, grease, mud or snow accumulation to minimize the danger of slipping or stumbling. Clean mud or grease from shoes before attempting to mount or operate the machine.

Be careful of slippery conditions on stepping points, hand rails, and on the ground. Wear safety boots or shoes that have a high slip resistant sole material.

For your personal protection. Do not attempt to climb on or off machine while machine is in motion.

Never leave the machine unattended with the engine running.

Always lock up machine when leaving it unattended. Return keys to authorized security. Heed all shut down procedures of the Operation and Maintenance Instruction Manual. Always set the parking brake when leaving the machine for any reason.

Do not wear rings, wrist watches, jewelry, loose or hanging apparel, such as ties, torn clothing, scarves, unbuttoned or unzipped jackets that can catch on moving parts. Wear proper safety equipment as authorized for the job. Examples: hard hats, safety shoes, heavy gloves, ear protectors, safety glasses or goggles, reflector vests, or respirators. Consult your employer for specific safety equipment requirements.

Do not carry loose objects in pockets that might fall unnoticed into open compartments. Do not use machine to carry loose objects by means other than attachments for carrying such objects.

DONOT CARRY RIDERS unless the machine is equipped for carrying people to reduce personal exposure to being thrown

not operate machinery in a condition of extreme fatigue or illness. Be especially careful towards the end of the shift.

Roll Over Protective Structures are required on wheel loaders, dozer tractors, track type loaders, graders and scrapers by local or national requirements. *DO NOT* operate this machine without a Roll Over Protective Structure.

Do not operate a machine without a falling object protective structure (FOPS).

Do not operate this machine without a rear canopy screen when machine is equipped with rear mounted towing winch.

Seat belts are required to be provided with roll over protective structures or roll protection cabs by local or national regulations. Keep the safety belt fastened around you during operation.

Where noise exposure exceeds 90 dBA for 8 hours, wear authorized ear protective equipment per local or national requirements that apply.

Keep clutches and brakes on machine and attachments such as power control units, winches and master clutches adjusted according to Operation and Maintenance Instruction Manuals of the manufacturers at all times. *DO NOT* adjust machine with engine running except as specified.

Do not operate a machine with brakes out of adjustment. See the Operation and Maintenance Instruction Manual.

Move carefully when under, in or near machine or implements. Wear required protective equipment, such as hard hat, safety glasses, safety shoes, ear protectors.

To move a disabled machine, use a trailer or low boy truck if available. If towing is necessary, provide warning signals as required by local rules and regulations and follow Operation and Maintenance Instruction Manual recommendations. Load and unload on a level area that gives full support to the trailer wheels. Use ramps of adequate strength, low angle and proper height. Keep trailer bed clean of clay, oil and all materials that become slippery. Tie machine down securely to truck or trailer bed and block tracks (or wheels) as required by the carrier.

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