ML460

All-Wheel-Steer Loader

OPERATOR'S MANUAL

PART #918296

Revision B - 12/09

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Mustang Manufacturing Company, Inc.

Mustang ML460 All-Wheel-Steer Loader Operator Manual (918296B)

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Brand: Mustang

Models: ML460

Machine: All-Wheel-Steer Loader

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Main contents

- Introduction
- Safety
- Operation
- Troubleshooting
- Maintenance
- Specifications

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Sample pages follow. Full manual: machinecatalogic.com

Safety

This manual and decals on the machine warn of safety hazards and should be read and observed closely.

Before operating the machine, first read and study the safety information in this manual. Additionally, anyone who operates or works on the machine must be familiar with these safety precautions.

This safety alert symbol means: ATTENTION! ALWAYS BE ALERT! YOUR SAFETY IS INVOLVED! This symbol is used throughout this operator's manual and on the decals on the machine.

DANGER!

Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

WARNING!

Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION!

Indicates a potentially hazardous situation, which, if not avoided, may result in minor injury or property damage. It is also used to alert users of unsafe practices.

It is essential that operators are thoroughly trained in the safe operation of the machine and handling loads. Operators must not be physically or mentally impaired. Do not allow minors or unqualified personnel to operate the machine, or to be near the machine unless they are properly supervised. It is recommended that the operator be capable of obtaining a valid motor vehicle operator's license.

Use of this machine is subject to certain hazards that cannot be eliminated by mechanical means, but only by exercising intelligence, care and common sense. Such hazards include: hillside operation, overloading, load instability, poor maintenance, and using the machine for a purpose for which it was not intended or designed.

Mustang Manufacturing always takes operator's safety into consideration during the design process. Guards and shields are provided, which protect the operator and bystanders from moving parts and other hazards. Operators must be alert, however, because some areas cannot be guarded or shielded without preventing or interfering with proper operation.

Some photographs in this manual may show doors, guards and shields open or removed for the purposes of illustration only. Be sure that all doors, guards and shields are in the proper operating positions before starting the engine to operate the machine.

Different applications may require optional safety equipment. Be sure you know the work site hazards and equip the machine and the operator as necessary. The information in this manual does not replace any applicable safety rules and laws. Before operating the machine, learn the rules and laws for your area. Make sure the machine is equipped as required according to these rules/laws.

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Inspection and adjustment of important functional units

Steering

☞ *Functional check: Move the steering wheel to the left and right.*

IMPORTANT!

The power steering system is only operational when the engine is running. But if the engine or hydraulic steering fails (e.g., failure of the pump drive), the machine can still be steered.

CAUTION!

If the power steering fails, turning the steering wheel requires greater effort. Take this into account especially when towing the machine.

☞ *Adapt towing speed to the steering.*

☞ *Use a tow bar.*

Wheel synchronization position

IMPORTANT!

The machine has self-synchronizing axles. If you notice that the wheels on the axles do NOT run in the same track – *see Synchronizing the steering system* on page 56.

Service brake/inching pedal

The rear brake lights do not come on when you:

- Brake by applying the parking brake.
- Brake hydrostatically with the drive.

☞ *Only pressing brake/inching pedal 25/**31** causes the brake lights to come on.*

WARNING!

Dirt accumulating around the brake pedal can result in brake malfunctions–

Accident risk.

☞ *Always keep brake/inching pedal 25/**31** clean.*

☞ *Before driving the machine, press brake/inching pedal 25/**31** down and check:*

- For resistance after pressing the pedal down to about 50% of its maximum travel.
- If the brake lights come on after you press the brake pedal down.

☞ For resistance after pressing the pedal down at a low speed.

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Fig. 116: Cleaning the oil cooler

☞ *Park the machine on level ground.*

☞ *Lower the loader unit to the ground.*

☞ *Engage the parking brake.*

☞ *Shut off the engine and let it cool.*

☞ *Remove the ignition key.*

☞ *Open the engine cover.*

☞ *Clean the radiator fins by blowing compressed air through the radiator from the engine side.*

Checking the coolant level

DANGER!

Never open the coolant tank filler cap or drain coolant when the engine is hot. The cooling system is under high pressure -

Risk of burns.

☞ *Wait at least 10 minutes after shutting off the engine.*

☞ *Wear protective gloves and clothing.*

☞ *When opening the coolant filler cap, always loosen the cap to the first notch to release the pressure in the cooling system.*

IMPORTANT!

Check the coolant level every **10 service hours** or once a day.
Check before starting the engine.

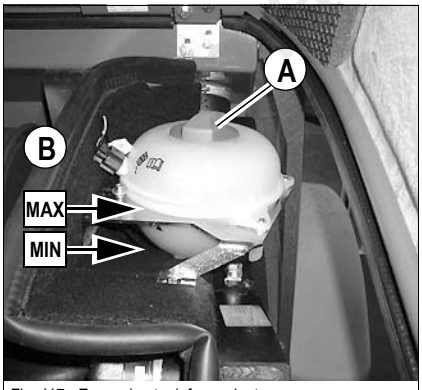

Fig. 117: Expansion tank for coolant

☞ *Check the coolant level as follows:*

- Park the machine on level ground.
- Lower the loader unit to the ground.
- Apply the parking brake.
- Shut off the engine.
- Remove the ignition key.
- Open the engine cover.
- Check the coolant level in the expansion tank **A**.

If the coolant level is below the **MIN** mark **B** on the expansion tank:

- Add coolant to the **MAX** mark **B**.

☞ *Check the coolant quality (antifreeze) with suitable testing equipment (antifreeze tester) – see Fluids and Lubricants on page 138.*

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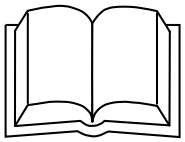
Maintenance of the Brake System

Environment!

Use a container to collect brake fluid as it drains and dispose of it in accordance with environmental laws.

Safety instructions





WARNING!

Brakes are critical for safety. Incorrect maintenance or repair may cause brake failure.

- All maintenance and repair work on the brakes must be completed by trained staff.
  - The machine operator must complete a daily check of the brake fluid level in the tank.
- An authorized dealer must immediately replace damaged brake lines or hoses – risk of accidents.

Checking/adding brake fluid

The brake fluid tank is located at the front, left side in the cab (next to the brake/inching pedal).

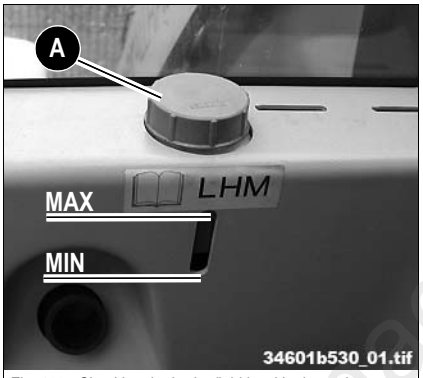


Fig. 130: Checking the brake fluid level in the tank

DANGER!

An incorrect brake fluid grade or an insufficient brake fluid level may impair the safety of the brake system –

Accident risk.

☞ *Check the brake fluid in the tank regularly.*

☞ *Fill the brake fluid up to the upper edge of the sight gauge **(MAX)**.*

☞ *The brake fluid must comply with the SAE specification.*

– see Fluids and Lubricants on page 138*.*

☞ *Replace brake fluid every two years.*

☞ *If the brake system loses a significant amount of fluid continuously, have the system checked and repaired by your dealer.*

If the level is below the upper edge of the sight gauge:

☞ *Clean the area around the brake fluid filler cap with a clean cloth.*

☞ *Open tank cover **A**.*

☞ *Fill the brake fluid up to upper edge of the sight gauge **(MAX)**.*

☞ *Close tank cover **A**.*

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