ML42 Wheel Loader



OPERATOR'S MANUAL

Form No. 909889

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Mustang Manufacturing Company, Inc., A Gehl® Comapny

1605 County Road 45 North P.O. Box 547
Owatonna, MN 55060-0547 USA
Phone: (507) 451-7112
Fax: (507) 451-8209

Mustang ML42 Wheel Loader Operator Manual (909889)

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: ML42

Machine: Wheel Loader

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Main contents

- Introduction
- Safety instructions
- Operation
- Troubleshooting
- Maintenance
- Helpful information for using the spare parts list
- Specifications
- Annex
- Index

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Sample pages follow. Full manual: machinecatalogic.com

- Before working on or with the machine, take off jewelry, such as rings, wristwatches, bracelets, etc., and tie back long hair, and do not wear loose-fitting garments, such as unbuttoned or unzipped jackets, ties or scarves.
  Injury may result from being caught up in the machinery or from rings catching on moving parts!
- Keep the machine clean. This reduces:
  - Fire hazard, e.g. due to oil-soaked rags lying around
  - Danger of injury, e.g. due to dirt or debris on the steps, and
  - Danger of accident e.g. due to dirt or debris on the brake or accelerator pedal!
- Observe all safety, warning and information signs and decals on the machine.
- Adhere to prescribed intervals or those specified in the operator's manual for routine checks/inspections and maintenance work!
- For service, inspection, maintenance or repair work, tools and workshop equipment adapted to the task involved are absolutely indispensable.

Selection and qualification of personnel, basic responsibilities

- Any work on or with the machine must be performed by reliable personnel only. Do not let unauthorized persons drive or work with the machine! Observe statutory minimum age limits!
- Employ only trained or instructed staff on the machine, and set out clearly and unequivocally the individual responsibilities of the personnel for operation, set-up, maintenance and repair!
- Define the machine operator's responsibilities – including observing traffic regulations. Give the operator the authority to refuse instructions by third parties that are contrary to safety.
- Do not allow persons to be trained or instructed, or persons taking part in a general training course, to work on or with the machine without being supervised by an experienced person!
- Work on the electrical system and equipment, on the chassis and onthe steering and brake systems may be carried out only by skilled personnel who has been specially trained for such work.
  Work on the hydraulic system of the machine must be carried out only by personnel with special knowledge and experience of hydraulic equipment!
- Seal off the area of danger should it not be possible to keep a safe distance.
  Stop work if persons do not leave the area of danger in spite of warning! Keep out of the area of danger!

  Area of danger:
  The area of danger is the area in which persons are in danger due to the movements of the
  - Machine
  - Work equipment
  - Additional equipment, or
  - Material

  This also includes the area affected by falling material, equipment, or by parts that are thrown.

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3.4.14 Cab heating and ventilation

Note:

The heater of the machine can be set to two operating conditions:

- Ventilation
- Heating

The flow of air is directed to the front window via defroster vent and to the operator compartment via foot vent 15/**18**.

The foot vent can be closed and directed separately.

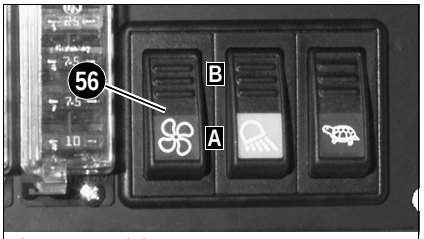


Fig. 51: Fan switch

Ventilation, fresh air	
1st fan level	☞ *Press rocker switch **56** down in **A** (below) by one step*
2nd fan level	☞ *Press rocker switch **56** down in **A** (below) by two steps*
Fan OFF	☞ *Press rocker switch **56** all the way down in **B** (above)*

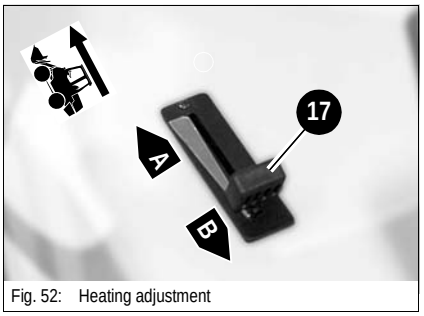


Fig. 52: Heating adjustment

Heating	
Colder	☞ *Slide lever **17** to position **B***
Warmer	☞ *Slide lever **17** to position **A***

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5.8.2 Front and rear axle differentials

Environment!

Use a suitable container to collect the gearbox oil as it drains and dispose of it in an environmentally friendly manner!

NOTE:

Only use new sealing rings for oil filler and drain plugs. Drain oil only after running the machine for a long period of time!

Checking/topping up the oil level

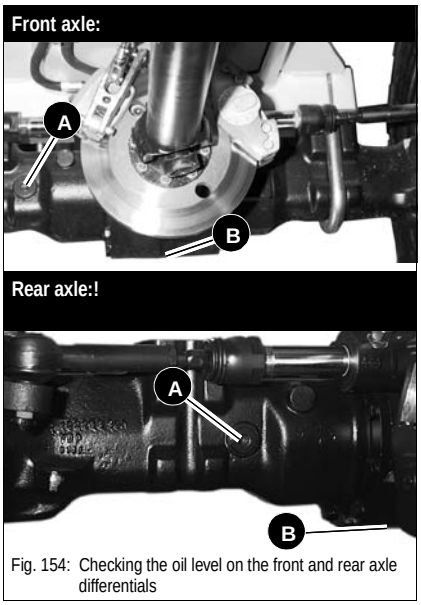


Fig. 154: Checking the oil level on the front and rear axle differentials

☞ *Proceed as follows:*

- Park the machine on level ground
- Clean and unscrew plugs **A**

If the oil level is below the opening or if the oil level cannot be seen at all:

- Fill with fresh oil through bore **A** up to the lower edge of the bore, oil grade – *see section 5.15 Engine fluids and lubricants* on page 5-39

If the oil level in the gearbox is sufficient:

- Tighten plug **A** with a new sealing ring to ensure an oil-tight seal

Changing the oil

☞ *Proceed as follows:*

- Park the machine on level ground when it is at operating temperature
- Place a drip tray under plug 154/**B** to collect the oil
- Clean and unscrew plug 154/**A**
- Clean and unscrew plug 154/**B**
- Completely drain the old oil
- Tighten plug 154/**B** with a new sealing ring to ensure an oil-tight seal
- Fill with fresh oil through bore **A** up to the lower edge of the bore, oil grade – *see section 5.15 Engine fluids and lubricants* on page 5-39
- Tighten plug 154/**A** with a new sealing ring to ensure an oil-tight seal

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7.8 Loader unit

Loader unit with bucket [1, 2]	
Bucket capacity struck as per SAE	0.9 yd³ (0.7 m³)
Bucket capacity heaped as per ISO	1.1 yd³ (0.85 m³)
Tipping capacity	7573 lb (3435 kg)
Rated operating load	3785 lb (1717 kg)
Lift load at max. height	7055 lb (3200 kg
Bucket width	69 in (1750 mm)
Dumping height	98 in (2500 mm)
Fulcrum height of quick hitch facility	128 in (3252 mm)
Dumping reach	26 in (670 mm)
Scraping depth	2.4 in (60 mm)
Tilt-back angle	50°
Dump-out angle	45°
Breakout force (lift)	8992 lbf (40 kN)
Breakout force (tilt)	7868 lbf (35 kN)
Fork arms[3] (payloads stated for 19.7 in (500 mm) load distance)	
Tipping load (ISO 8313):	5952 lb (2700 kg)
Payload (factor 1.25 [4]): Payload (factor 1.67 [5]):	4629 lb (2100 kg) 3461 lb (1570 kg)
Lifting height	118 in (3000 mm)
Movable payload in transport position factor 1.25 [4]	5621 lb (2550 kg)

1. With standard tires 12.5 – 20
2. Standard bucket 810134
3. With pallet forks 810135
4. On firm and level ground
5. Off-road

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