ML52 Wheel Loader



OPERATOR'S MANUAL

Form No. 909893

MUSTANG®

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PRELIMINARY

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Mustang ML52 Wheel Loader Operator Manual (909893)

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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

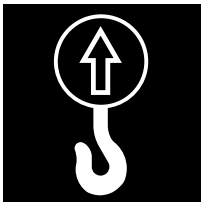

Fig. 12: Label: eye hooks

Meaning

Indicates eye hooks on the vehicle. The eye hooks are used for lifting or strapping down the vehicle.

Location:

At the rear on the counterweight (Fig. 10/**B**), and at the
front over the front axle, to the left and right of the vehicle frame.

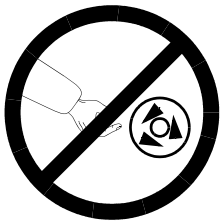

Fig. 13: Prohibitory sign

Meaning

1 Do not open engine cover before engine is at a standstill!

2 Do not touch any moving or turning parts!

Location:

At the rear on the engine cover of the vehicle (Fig. 10/**C**), and on the engine block

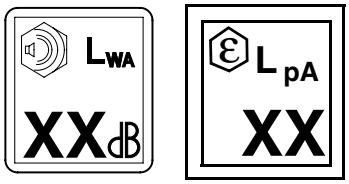

Fig. 14: Labels: noise levels

Meaning

Indication of Noise levels produced by the vehicle

L_{WA} = sound power level

L_{PA} = noise level inside the cab

Further indications – see section 7.12 *Noise levels* on page 7-9

Location:

On rear left window



Fig. 15: Speed label

Meaning

Design-specific max. vehicle speed in kph

Location:

Left and right of counterweight and on rear window

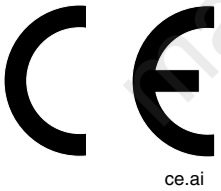

Fig. 16: CE mark

Meaning

The CE mark means that the vehicle meets the requirements of the EC Machine Directive and that the conformity procedure has been carried out. The vehicle meets all health and safety requirements of the EC Machine Directive.

Location:

On rear left window

...inside the operator's compartment

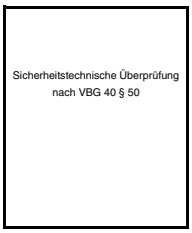

Fig. 17: UVV inspection label

Meaning

Certification of inspection by UVV (German regulations for accident prevention) as per VBG 40 §50 (brochure of the German employer's liability insurance association for construction engineering), by means of an expert

Location:

In the cab on the left B pillar

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Control lever [84] – low-speed control (option)

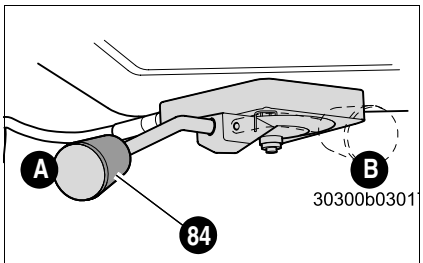

Fig. 30: Control lever – low-speed control

Function

Regulation of maximum vehicle speed irrespective of the engine revs

Important!

This function is identical to inching with the brake/inching pedal, whereby the maximum speed can be set with more precision.

The maximum possible speed depends on the drive range selected.

Position	Drive speed
A	Maximum speed
B	Vehicle at a standstill

Parking brake [24]

Function

1 Prevents the vehicle from rolling away

2 Emergency brake in case of a breakdown of the service brake

Danger!

Use parking brake *19/***24** instead of the service brake in an emergency only, i.e. in case of a breakdown of the service brake. The brake lights do not light up, and the vehicle brakes abruptly –

Accident hazard!

☞ *In normal operation, only use brake/inching pedal 19/***27** *as a service brake*

Important!

The engine will not start unless the parking brake is applied and telltale *21/***51** lights!

☞ *Pull lever 19/***24** *up*

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Inspection of important functional units

Steering

Important!

The steering system is only operational when the engine is running!
In the event of a failure of the diesel engine or of the hydraulic steering aid (e.g. failure of the pump drive), the vehicle can still be steered (emergency steering feature).

After switching high speed on or off, and after synchronizing the wheels, always carry out a functional check of the steering system!

Danger!

Failure of steering assistance:
Turning the steering wheel requires great effort! Take this into account especially when towing the vehicle!

☞ *Adapt towing speed to the altered steering behaviour!*

☞ *Use a towing bar!*

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

Synchronous wheel position

Important!

Tyre wear increases and straight-ahead driving becomes more difficult if the vehicle is not driving in exactly the correct track.

If you notice from the way the vehicle handles that the wheels of both axles are not driving in exactly the correct track:

☞ *Synchronise the steering – see Synchronising the steering on page 3-32*

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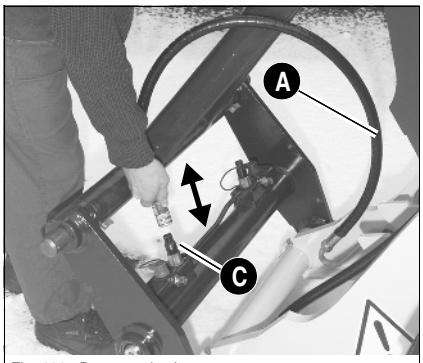

Fig. 103: Depressurisation

☞ *Disconnect flexible line **A** from the implement*

☞ *Connect flexible line **A** (in driving direction on the right) on the vehicle, to blue plug **C** of the quickhitch facility (in driving direction on the left, crosswise!)*

☞ *Disconnect flexible line **A** again*

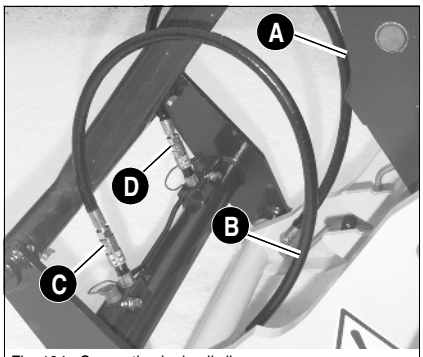

Fig. 104: Connecting hydraulic lines

☞ *Connect flexible line **A** to blue plug **D** of the quickhitch facility (in driving direction on the right)*

☞ *Connect flexible line **B** to red plug **C** of the quickhitch facility (in driving direction on the left)*



Fig. 105: Releasing the lock

☞ *Return lever **65** back to neutral position*

☞ *Unlock/lock the implement – see section 3.5.7 Re-equipping the loader unit on page 3-60*

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Problem		Possible causes	See
Engine smokes	Blue	Oil level too high	5-7
		Engine inclination too high	7-1
	White	Engine starting temperature too low	
		Fuel quality does not comply with operation manual	
		Wrong valve tip clearance	7-1
		Fuel injector defective	
	Black	Air filter fouled/exhaust turbocharger defective	
		Air filter maintenance switch or gauge defective	
		Full-load stop (dependent on charge-air pressure) defective	
		Charge-air line leaks	
		Wrong valve tip clearance	7-1
		Fuel injector defective	

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Inside of operator compartment

Caution!

Never use high-pressure cleaners, steam jets or high-pressure water to clean the inside of the operator compartment. Water under high-pressure may
- Penetrate into the electrical systems and cause short circuits
- Damage seals and disable the controls!

For cleaning the operator compartment, we recommend using the following aids:

- Broom
- Vacuum cleaner
- Damp cloth
- Bristle brush
- Bucket of water

Cleaning seat belt

- Clean the seat belt (which remains fitted in the vehicle) only with a mild soap solution; do not use chemical agents as they may destroy the fabric!

Danger!

In the case of automatic seat belts (option) soiled belts may impair winding and thereby affect safety

☞ *Only wind seat belt when it is dry!*

Exterior of the vehicle

The following articles are generally suitable:

- High-pressure cleaner
- Steam jet

Engine compartment

Danger!

Clean the engine at engine standstill only –

Danger of personal injury!

☞ *Switch off the engine before cleaning*

Caution!

When cleaning the engine using a water jet or steam jet, do not point the jet directly at electrical measurement sensors such as the oil pressure switch. Otherwise, liquid penetrating such units can lead to corrosion and failure of the measuring function!

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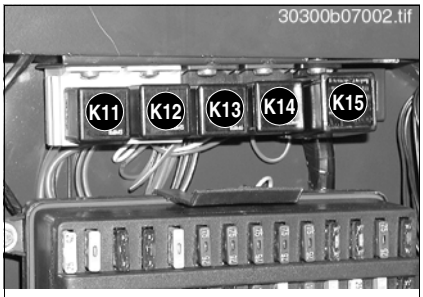

Fig. 206: Relay above fuse box

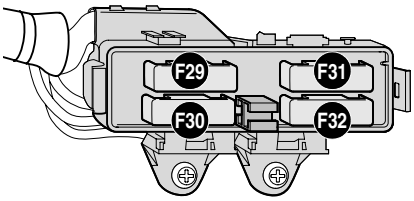

Fig. 207: Main fuse box in engine compartment



Fig. 208: Relay in the engine compartment

Electric relays – above the fuse box in the cab

Relay no.	Protected circuit
K11	– High current relay – terminal 15
K12	– High current relay terminal 15
K13	– Switching relay – high beam
K14	– Switching relay – low beam
K15	– Pulse generator – intermittent wiper

Electrical fuses – main fuse box in engine compartment

Fuse no.	Rated current (A)	Protected circuit
F29	50 A	Power supply
F30	50 A	Power supply
F31	50 A	Power supply
F32	40 A	Preheating system, starter

Electric relay – in the engine compartment

Relay no.	Protected circuit
K16	– Preheating system
K17	– Starter

Electric relays – instrument panel/side console

Relay no.	Protected circuit
K18	– Time lag relay for telltale check (in the instrument panel)
K19	– Switching relay – condenser grade 1/2 (option, in side console)
K20	– Switching relay – condenser (option, in side console)
K21	– Switching relay – condenser (option, in side console)

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