ML68

Beginning Serial Number:
343010001

ALL-WHEEL-STEER LOADER

OPERATOR'S MANUAL

PART #918140

Revision C - 08/07

Mustang Manufacturing Company, Inc.

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Mustang ML68 All-Wheel-Steer Loader Operator Manual (918140C)

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Models: ML68

Machine: All-Wheel-Steer Loader

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Main contents

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

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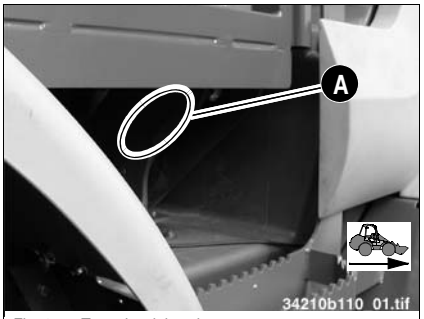

Fig. 1: Type decal: location

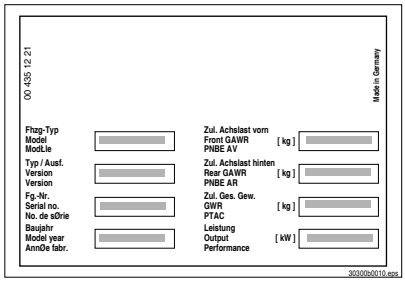

Fig. 2: Type decal

Serial number

The serial number is stamped onto the cab bearing A
(on the right as seen in driving direction, behind the cab door lining), and is also located on the type decal.

The type decal is located on the frame on the right, next to the loader unit bulkhead (above the front axle).

Type decal information

Example: Model 580

Machine model:	580
Version:	343 00
Serial no.:	343 01 0001
Model year:	2005
Front gross axle weight rating:	9370 lbs. (4250 kg)
Rear gross axle weight rating:	9370 lbs. (4250 kg)
Gross weight rating:	15,432 lbs. (7000 kg)
Output:	75 hp (56 kW)

Other information – *see* *Specifications* on page 135.



Fig. 3: Cab type decal

Cab number

The type decal (arrow) is located in the cab, on the top right frame member.

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Battery

- When handling the battery, follow the specific safety instructions. Batteries contain sulphuric acid and are caustic.



DANGER!

A hydrogen-air mixture, which creates a risk of explosion, is formed in the battery cells during normal operation, and especially during charging.

In the case of a frozen battery or of an insufficient electrolyte level, do not try to start the machine with battery jumper cables. The battery can burst or explode.

Tires

- Repair work on tires and rims must be carried out only by technical staff or an authorized dealer.
- Damaged tires and/or wrong tire pressure reduce the operational safety of the machine. Therefore, carry out regular checks of the tires for:
  - Proper tire pressure.
  - Damage.



DANGER!

DO NOT inflate tires with flammable gas – this creates a risk of explosion.

- Carry out regular checks of the wheel nuts for tightness. After changing tires, check the wheel nuts after 10 service hours.

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Driving the machine

Controls: overview

Preheating/start switch [14]

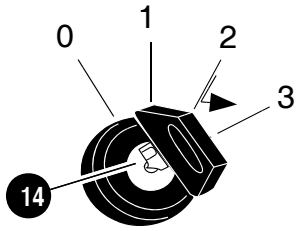

Fig. 30: Preheating/start switch

IMPORTANT!

The engine will NOT start unless the parking brake is applied and the indicator is on.

Position	Function	Power consumer
0	Inserting or removing the ignition key.	None.
1	ON/drive position.	➥ All functions are operational. ➥ Indicator comes on if the parking brake is applied.
2	Preheating engine (10 – 15 seconds).	➥ *– see Starting the engine* on page 44.
3	Starts the engine.	➥ *– see Starting the engine* on page 44.

Forward-reverse control [76]



Fig. 31: Lever for selection of driving direction

Function

- Select the driving direction by moving rocker switch **76** on the joystick into the neutral position.
- If your switch **76** does not have a neutral position, select the neutral position by using switch **81** on the joystick.
- Use indicators **52** and **68** on the instrument panel to determine your driving direction.

Function	Operation	Effect
• **Forward**	☞ *Press toggle switch* **76** *forward* ***F****.*	➥ Indicator **52** comes on.
• **Reverse**	☞ *Press toggle switch* **76** *rearward* ***F****.*	➥ Indicator **68** comes on.
• **Neutral**	☞ *Press tip switch* ***81*** *(if equipped with switch* ***76*** *without neutral position).*	➥ Indicators **52 and 68** turn off.

☞ *– see Driving on page 49.*

IMPORTANT!

Neutral position is activated after you start the engine, apply the parking brake, or turn off the engine. You can only select the driving direction if the parking brake is released.

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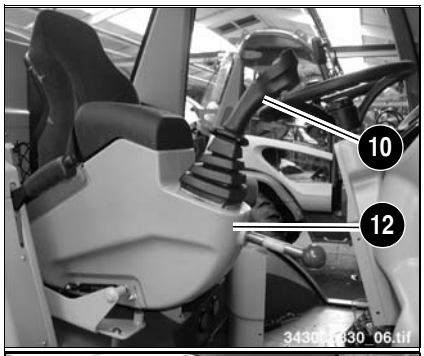
Other controls

Folding back the control lever base



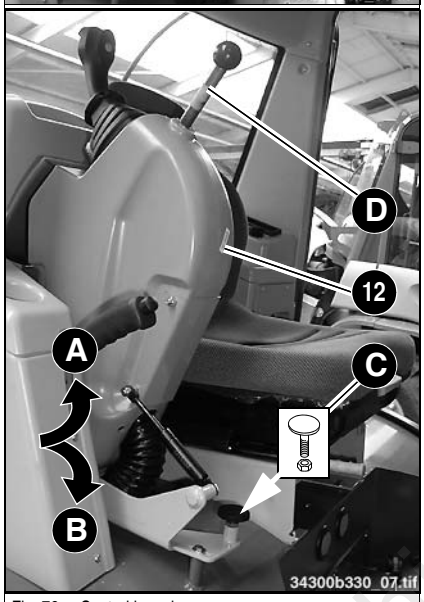


Fig. 76: Control lever base

The cab door on the right can be used as entry and exit.

☞ *Do the following before entering or leaving the cab:*

- Stop and secure the machine – *see Parking the machine* on page 61.
- Lower the loader unit.
- Apply the parking brake.
- Turn off the engine.
- Remove the ignition key.
- Move control lever **10** (joystick) back and forth several times – *see Lowering the loader unit with the engine turned off* on page 80.
- Secure control lever **10** (joystick) – *see Control lever lock (joystick)* on page 78.

☞ *Raise control lever base **12** with handle **D** to position **A**.*

➥ The gas strut keeps the control lever base in the top position.

CAUTION!

*Do not use handle **D** on the control lever base as a support for your entrance or exit:*

☞ *Use the entrance handles in the cab.*

☞ *Fold control lever base **12** rearward to position **B** after you are in the cab.*

➥ The gas strut keeps the control lever base in the lower position.

NOTE:

The control lever base height can be set with stop bolt **C**.

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Problem		Possible causes	See page
Engine smoke	Blue	Oil level is too high	*101*
		Engine inclination is too high	
	White	Engine starting temperature is too low	
		Fuel quality does not comply with specifications	*124*
		Wrong valve clearance	
		Fuel injector defective	
	Black	Air filter not working	*105*
		Air filter maintenance switch or gauge defective	
		Wrong valve clearance	
		Fuel injector defective	

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Checking V-belt tension

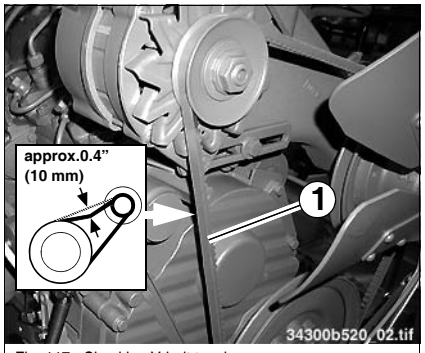

Fig. 117: Checking V-belt tension

☞ *Check the V-belt tension as follows:*

- Turn off the engine.
- Prevent the machine from rolling away and remove the ignition key – *see Parking the machine* on page 61.
- Open the engine cover.
- Carefully inspect V-belt **1** for damage.
- If the V-belt is damaged:
  - Have the V-belt replaced by authorized staff.
- Press with your thumb to check whether the V-belt cannot be deflected between the pulleys by more than about 0.4" (10 mm).
- Retighten the V-belt if necessary. See below.

Retightening the V-belt

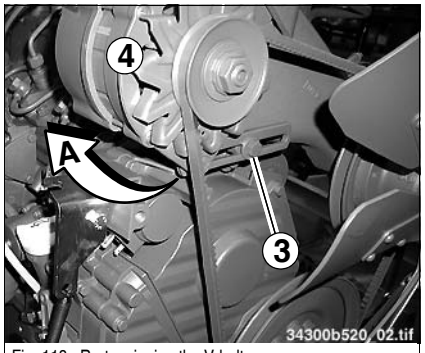

Fig. 118: Re-tensioning the V-belt

☞ *Retighten as follows:*

- Turn off the engine.
- Prevent the machine from rolling away and remove the ignition key – *see Parking the machine* on page 61.
- Open the engine cover.
- Slacken attachment screws **3** of alternator **4**.
- Use a suitable tool to push the alternator in the direction of arrow **A** until the correct V-belt tension is obtained (fig. 117).
- Keep the alternator in this position, and at the same time tighten attachment screws **3**.
- Check the V-belt tension (fig. 117) again.

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Specifications

Frame

Sturdy steel frame, rubber-mounted engine

Engine

Engine	
Product	Deutz diesel engine
Model	BF4M 2011
Design	In-line
No. of cylinders	4
Displacement	190 in.³ (3109 cm.³)
Bore and stroke	4 x 5” (94 x 112 mm)
Compression ratio	17.5:1
Output (as per ISO 9249)	75 hp (56 kW)/76 DIN hp at 2300 rpm
Max. torque	199 lb.-ft. (270 Nm) at 1600 rpm
Specific minimum fuel consumption	282 g/hph (210 g/kWh)
Fuel injection system	Direct fuel injection
Firing order	1-3-4-2
Starting aid	Glow plug
Max. inclined position (engine no longer supplied with oil):	Max. lateral left/right inclination: 30/57% Max. uphill/downhill inclination: 30/57% **Follow tilting limit of the machine.**
Oil pressure	44 – 65 psi (3.0 – 4.5 bar) at 2300 rpm
Valve clearance (engine at cold temperature)	Intake valve 0.01” (0.3 mm) Exhaust valve 0.02” (0.5 mm)

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