2099
2107 (EU)
2109
Skid-Steer Loaders

Operator's Manual

#917035/CP0705

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Mustang 2099, 2107 and 2109 Skid Steer Loader Operator Manual

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Main contents

- Introduction
- Safety
- Controls and Safety Equipment
- Operation
- Service
- Troubleshooting
- Maintenance
- Specifications
- Torque Specifications
- Warranty
- Index

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Sample pages follow. Full manual: machinecatalogic.com

- Always wear safety glasses with side shields when striking metal against metal. In addition, it is recommended that a softer (chip-resistant) material be used to cushion the blow. Failure to heed could lead to serious injury to the eyes or other parts of the body.
- Do not smoke or have any spark-producing equipment in the area while filling the fuel tank or while working on the fuel or hydraulic systems.

Potential Hazards

A skid-steer loader operator must ALWAYS be conscious of the working environment. Operator actions, the environmental conditions and the job at hand require the full attention of the operator so that safety precautions can be taken.

ALWAYS maintain a safe distance from electric power lines and avoid contact with any electrically charged conductor or gas line. Accidental contact or rupture can result in electrocution or an explosion. Contact the North American One-Call Referral System at: 1-888-258-0808 for the local "Digger's Hotline" number or the proper local authorities for utility line locations BEFORE starting to dig!

Exposure to crystalline silica (found in sand, soil and rocks) has been associated with silicosis, a debilitating and often fatal lung disease. A Hazard Review (Pub. No. 2002-129) by the U.S. National Institute for Occupational Safety and Health (NIOSH) indicates a significant risk of chronic silicosis for workers exposed to inhaled crystalline silica over a working lifetime. NIOSH recommends an exposure limit of 0.05 mg/m^3 as a time-weighted average for up to a 10-hr workday during a 40-hr workweek. NIOSH also recommends substituting less hazardous materials when feasible, using respiratory protection and regular medical examinations for exposed workers.

Safety Decals

The skid-steer loader has decals that provide safety information and precautions around the loader. These decals must be kept legible. If missing or illegible, they must be replaced promptly. Replacements may be obtained from your Mustang dealer. New equipment must have all decals specified by the manufacturer affixed in their proper locations.

New Decal Application

Surfaces must be free of dirt, dust, grease and foreign material before applying the decal. Remove the smaller portion of the decal backing paper and apply the exposed adhesive to the clean surface, maintaining proper position and alignment. Peel the rest of the backing paper and apply hand pressure to smooth out the decal surface. Refer to the following pages for proper decal location. Text decals begin on page 9; no-text decals begin on page 12.

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Lift/Tilt Controls

Moving the lift arm and tilting the attachment are accomplished by movement of the foot pedals. The left pedal raises and lowers the lift arm; the right pedal tilts the attachment. To **raise** the lift arm, push down on the back of the left pedal with your left heel; to **lower** the lift arm, push down on the front of the left pedal with the toes of your left foot. To **tilt the attachment forward and down**, push down on the front of the right pedal with the toes on your right foot; to **tilt the attachment up and back**, push down on the back of the right pedal with your right heel.

Note: *The speed of the lift/tilt motion is directly proportional to the amount of pedal movement and engine speed.*

To place the lift arm into the detent "float" position, use the toes of your left foot to push the left pedal all the way down. This position allows the lowered lift arm to float while traveling over changing ground conditions.

⚠ WARNING **Never push the left pedal into the "float" position with the attachment loaded or raised, because this will cause the lift arm to lower very rapidly.**

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Checking Tire Pressure

Correct tire pressure should be maintained for all tires to enhance operating stability and extend tire life. Refer to the chart below for proper inflation pressures.

Tire Size	Inflation Pressure	
	psi	kPa
14 x 17.5 12-ply Heavy-Duty Floatation	55	345
14 x 17.5 H/E Severe-Duty	55	345

Heater Filters

Loaders with the optional heater or heater/air conditioner include two filters: fresh air intake and recirculation air.

Refer to the *Replacement Parts* topic (page 52) for filter part numbers. Filters should be replaced as needed.

Fresh Air Intake Filter: Located on the right side of the main unit. Tilt back the ROPS/FOPS for access (page 54) and slide out the filter.

Recirculation Air Filter: Located on the front of the ROPS/FOPS rear deck panel. Remove four screws and pull out the filter.

Note: *Keeping the cab clean will reduce service need and ensure proper air conditioner and heater operation. Failure to do so can cause evaporator or heater core plugging, fan noise, vibration and failure.*

Electrical System

Circuit Breakers

The circuit breakers for the inside electrical system are located above the battery.

Fuse Panel

The fuse panel for the loader is located on the interior right side rear of the ROPS/FOPS.

Battery

⚠ WARNING Before servicing the batteries or electrical system, be sure the battery disconnect switch is in the OFF position.

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CHAPTER 8

SPECIFICATIONS

Loader Specifications

Specification	2099	2109
Operating Weight	10180 lbs (4618 kg)	10260 lbs (4654 kg)
Shipping Weight	8980 lbs (4073 kg)	9060 lbs (4110 kg)
Rated Operating Load[1] (capacity)	3400 lbs (1542 kg)	3675 lbs (1724 kg)
Engine		
Make	Perkins	Perkins
Model	1104C-44	1104C-E44T
Displacement	269 in^3 (4.40 L)	269 in^3 (4.40 L)
Power (net)	86 hp (64 kW) @ 2400 rpm	115 hp (86 kW) @ 2400 rpm
Peak Torque	223 ft-lbs (302 N·m) @ 1400 rpm	291 ft-lbs (394 N·m) @ 1400 rpm
Hydraulic System (theoretical)		
Main Hydraulic System Pressure	3300 psi (228 bar)	3300 psi (228 bar)
Standard-Flow Rating	29 gpm (110 L/min)	29 gpm (110 L/min)
High-Flow Rating		40 gpm (151 L/min)
Electrical		
Battery	12-Volt DC, 950 CCA	12-Volt DC, 950 CCA
Starter	12-Volt DC (3 kW)	12-Volt DC (3 kW)
Alternator	85 amperes	85 amperes
Capacities		
Chaincase (each)	12.0 U.S. qts (11.4 L)	12.0 U.S. qts (11.4 L)
Engine Oil	8.9 U.S. qts (8.4 L)	8.9 U.S. qts (8.4 L)
Fuel Tank	28.9 U.S. gal (109.4 L)	28.9 U.S. gal (109.4 L)
Hydraulic Reservoir	18.5 U.S. gal (70 L)	18.5 U.S. gal (70 L)

1. Operating load (capacity) rated with an 84 in. (2134 mm) (7610 22 ft^3/0.6 m^3; 7810 28 ft^3/0.8 m^3) dirt/construction bucket in accordance with SAE J818 (ISO 14397-1).

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Full Version Available

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