MUSTANG®

OPERATOR'S MANUAL

000-37854

Revision I November 1987

552 MUSTANG LOADER

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PRODUCTS OF AUSTOFT INC. (U.S.A.)
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Mustang 552 Skid Steer Loader Operator Manual

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Models: 552

Machine: Skid Steer Loader

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Main contents

- Foreword
- Pre-Delivery check list
- Warranty
- User's responsibility
- General Information
- Instrument panel and operator controls
- Transporting
- Lubrication chart
- Maintenance interval chart
- Fuels and lubricants
- Air cleaner
- Electrical system
- Maintenance
- Trouble shooting
- Specifications
- Decal locations

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Sample pages follow. Full manual: machinecatalogic.com

MUSTANG SKID STEER LOADER
PRE-DELIVERY CHECK LIST

Any questions that do not apply to this unit, please write NONE through both squares.

GENERAL AND VISUAL

YES NO

- ☐☐ Is Mustang equipped as ordered?
- ☐☐ Did Mustang arrive without any shipping damage?
- ☐☐ Was Owner's Package with machine and complete?
- ☐☐ Were all nuts and bolts tightened properly?
- ☐☐ Was all hardware complete and in place?
- ☐☐ Were all tube lines and hoses routed properly and secure?
- ☐☐ Are tires, seat cushions, and safety treads in good condition?

YES NO

- ☐☐ Does the seat belt lock and work properly?
- ☐☐ Was the quality of paint acceptable?
- ☐☐ Do the lift arm locks work properly?
- ☐☐ Do the brakes function properly, adjusted properly?
- ☐☐ Are the neutral start interlocks working and adjusted correctly?
- ☐☐ Is there any damage to the ROPS?
- ☐☐ Are all parts of the ROPS installed and fastened secure?

DO NOT RUN MACHINE WITHOUT OPERATOR IN SEAT AND SEAT BELT FASTENED. MAKE SURE EVERYONE IS CLEAR OF MACHINE!

ENGINE

- ☐☐ Is high and low RPM set properly?
- ☐☐ Do choke, throttle, governor, and other controls function properly?
- ☐☐ Are all belts aligned, and adjusted correctly, (Fan, governor, hydrostatic drive, etc.)
- ☐☐ Is engine timing set correctly?
- ☐☐ Are all connections to the air cleaner tightened and installed properly?
- ☐☐ Is the air cleaner element in good condition and installed correctly?

ELECTRICAL

- ☐☐ Are all warning lights and gauges operating properly?
- ☐☐ Does the hour meter function properly?
- ☐☐ Is the battery in good condition and connections tight?
- ☐☐ Is wiring harness routed correctly and are all connections secure?

FLUID LEVELS

- ☐☐ Is coolant at proper level?
- ☐☐ Is engine oil at proper level?
- ☐☐ Is hydraulic oil at correct level? (Chain case if separate)
- ☐☐ Is battery electrolyte level correct? (Non maintenance free batteries only.)
- ☐☐ Are there any leaks on this Mustang?
  If yes, specify the general area. (Cylinder, axle, etc.)
- ☐☐ Are all grease zerks installed and lubricated?
- ☐☐ Is drive coupler sufficiently lubricated with molybdenum disulfide grease?

OPERATE MUSTANG ONLY FROM OPERATOR'S SEAT WITH SEAT BELT FASTENED AND ALL GUARDS IN PLACE.

OPERATIONAL AND DRIVE SYSTEM

- ☐☐ Are foot pedal linkages properly set for lift, tilt, and auxiliary?
- ☐☐ Is the hydrostatic control linkage adjusted properly and working freely?
- ☐☐ Do the parking brakes work properly?
- ☐☐ Do all hydraulic functions work smoothly, does machine drive smoothly at full RPM?
- ☐☐ Do boom and Fast-A-Tach cycle without interference?
- ☐☐ Are all drive chains adjusted properly?
- ☐☐ Is seat belt foot pedal lock functioning properly?
- ☐☐ Are wheel bolts torqued properly?
- ☐☐ Are tire pressures correct?
- ☐☐ Are the built in safety guards under safety recommendations in the Operator's Manual all in their proper place?
- ☐☐ Have there been any alterations to any safety guards.
- ☐☐ Are all decals in good condition and at their proper location?

_____

_____

Dealer Name _____ Address _____

City _____ State _____

DATE MACHINE WAS INSPECTED _____

DEALER SIGNATURE _____

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OPERATION

Connecting Attachments:

When changing attachments, it is best if the machine and attachment are both on level surfaces. Engine speed should be reduced to connect attachment. Other people must stay clear while machine operator is connecting or removing attachments.

To Connect Attachment:

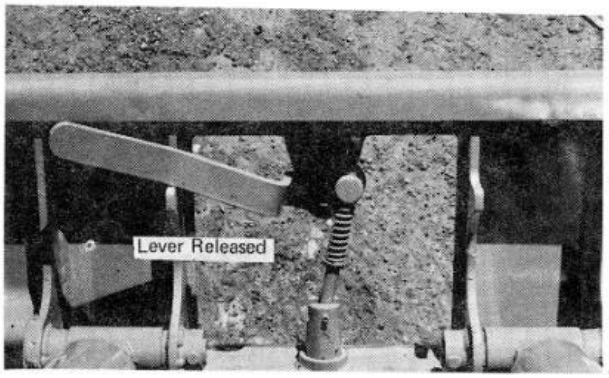
1. Move engagement lever to the released position.
2. Climb into seat, fasten seat belt and start engine. Drive into attachment.
3. Push the heel of the tilt control pedal to bring the attachment close to the Fast-A-Tach.
4. Lower the lift arm completely.
5. Stop engine, set parking brake and shift engagement lever to the engaged position. Note: There should be firm resistance on the engagement lever when it is moved to the engaged position. This is necessary to assure the lever will stay engaged.
6. Connect auxiliary hydraulic couplers if needed.

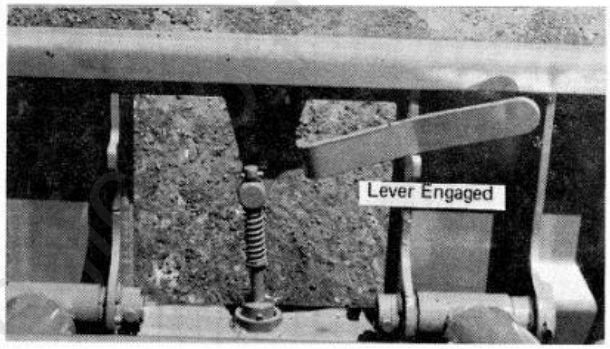
To Remove Attachment:

1. Engine must be off, parking brake locked and attachment should be resting on the ground. Move all the pedals back and forth to release all pressure from the hydraulic system.
2. Disconnect auxiliary hydraulic connections if they are used.
3. Move the Fast-A-Tach engagement lever to the released position.
4. Drive the machine backwards while tilting the Fast-A-Tach forward.

USE OF AUXILIARY HYDRAULICS

IMPORTANT! Only attachments approved by Austoft may be used. Otherwise, damage to the machine or attachment may occur. Always be sure the area around the couplers is clean before connecting.







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SPECIFICATIONS

FLUID CAPACITIES	
Cooling system	16 qt. (15.2 L)
Fuel tank	20 gal (75.7 L)
Chain box	8 gal. (30.3 L)
Engine lubrication oil includes 1/2 qt. w/filter replacement)	6 qt. (5.7 L)
Hydraulic system	19 gal. (71.9 L)

ISUZU DIESEL 4JB1 ENGINE	
Fuel	Diesel, No. 2
Cooling medium	Liquid
No. of cylinders	4 in-line
Displacement	169 cu. in. (2771 cc)
Bore	3.66 (93 mm)
Stroke	4.02 (102 mm)
*Horsepower	57.0 at 2500 rpm (42.5 kw)
High idle speed	2750 rpm
*Torque	129 ft. lb. at 1600 rpm (175 Nm)
Alternator	62 amp belt driven
Battery	12 volt, maintenance free cold cranking rating: 625 Amps at 0°F. (-17°C.)
Air cleaner	Replaceable dry cartridge type w/condition indicator and provision for safety element

HYDRAULIC SYSTEM	
Pressure, relief	2400 psi
Control	3-spool valve, foot pedals & hand lever
Pump	Gear 20.0 gpm (75.7 liters/min.)
Filters	(1) 100 mesh suction (1) 7 micron return (1) 7 micron charge inlet

HYDRAULIC CYLINDERS	LIFT (2)	TILT (2)
Cylinder Type	Double Acting	Double Acting
Bore diameter	2.5 in. (63.5 mm)	3 in. (76.2 mm)
Rod diameter	1.5 in. (38.1 mm)	1.25 in. (31.8 mm)
Stroke	35.6 in. (904 mm)	14.2 in. (361 mm)

TRAVEL SPEEDS	
Forward or reverse	0-6.8 mph (10.9 km/h)
Turning radius	360 degrees in its own length

OPERATIONAL SPECIFICATIONS	
Load rating (½ SAE tip-up)	1700 lbs. (773 kg.)
Tipping load (SAE)	3400 lbs. (1545 kg)
Breakout force	5000 lbs. (2273 kg)
Raising time	4.5 sec.
Lowering time	2.8 sec.
Dumping time	1.4 sec.
Rollback time	1.8 sec.

*Manufacturers' Rating

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