MUSTANG®

OPERATOR'S MANUAL

000-17843

Revision I November 1985
Revision II September 1986
Revision III November 1987

442 MUSTANG LOADER

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PRODUCTS OF AUSTOFT INC. (U.S.A.)
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Mustang 442 Skid Steer Loader Operator Manual

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Machine: Skid Steer Loader

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- Warranty
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Sample pages follow. Full manual: machinecatalogic.com

SAFETY EQUIPMENT

We at Austoft Inc. consider ourselves pioneers in the development and manufacture of construction machinery. We have built in the following safety guards and equipment to make our product safer for your use:

1. LIFT ARM STOPS——Lift arm stops, one on each side of upper front corners of ROPS, are provided to secure bucket and lift arm in raised position in case it becomes necessary to service the unit or leave operator's seat with lift arm raised.

⚠ WARNING! —BUCKET is to be LOWERED when machine is not in use. Accidental lowering of bucket can crush a person.



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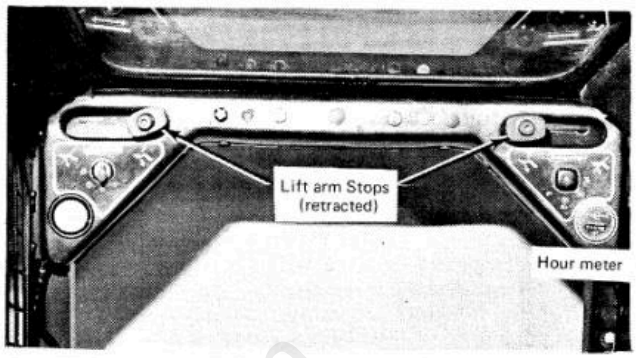
When using the lift arm stops, be sure to lower the lift arm onto the pins, and lower bucket to full down position. This will prevent the accidental lowering of lift arm or bucket onto someone walking or working beneath the lift arm.

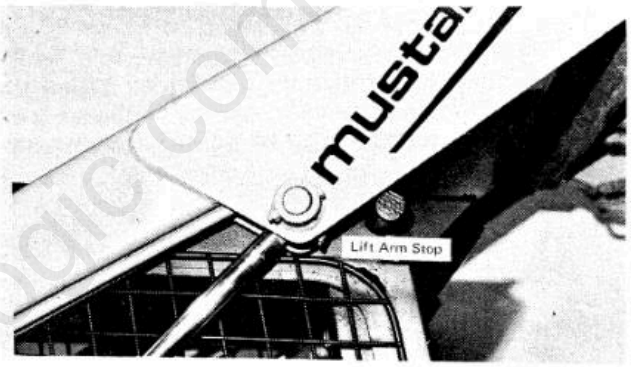
⚠ WARNING! whenever any work is done on this machine with the lift arm raised and the R.O.P.S. removed a lift arm lock must be placed on the hydraulic lift cylinder rod to insure the lift arm cannot fall and hurt anyone.

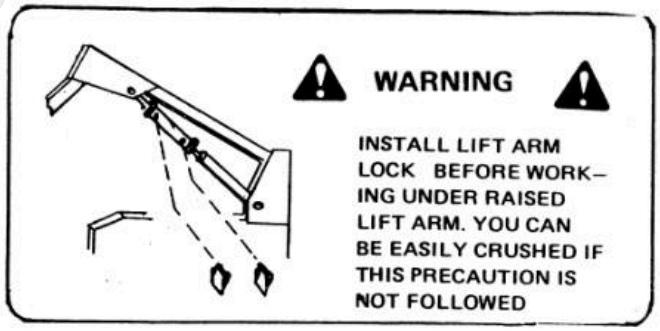
Never work under an unblocked raised lift arm. Use lift arm lock No. 504-130.

2. ROPS - This is a certified Roll Over Protective Structure (ROPS) and is not to be altered. Keep ROPS and SCREENS in place and tight so that serious injury will not occur.

3. FOPS (Overhead Canopy) —— This is a certified Falling Object Protective Structure designed to protect the operator from injury resulting from such objects as bricks, concrete blocks, and hand tools that may fall from the relatively low heights. Do not alter this canopy in any way.









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OPERATION

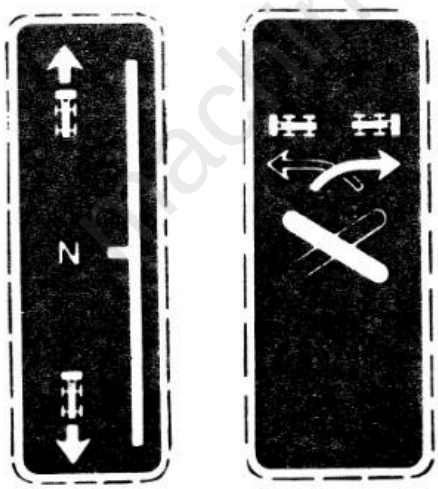
CAUTION! When learning to operate the machine:

1. **Wear your seat belt - ALWAYS!**
2. **Keep clear of other people. NO RIDERS!**
3. **Work in a level area.**
4. **Operate at part-throttle**
5. **If you lose control, release the controls and the machine will stop.**

OPERATING MACHINE:

Forward speeds, and turning maneuvers are accomplished by movement of the steering T-bar. Pushing the T-bar forward causes the machine to move forward; pulling back on the T-bar causes the machine to move rearward. Turning the T-bar clockwise or counterclockwise will cause the machine to turn to the right or the left, respectively.

The steering T-bar has a built-in limiter that reduces speeds in turns.

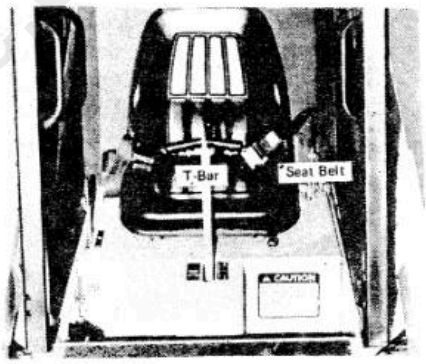


Moving the T-bar farther from neutral increases speed steadily to maximum travel speed. Working force decreases as speed increases. To get maximum push power, move the T-bar only part way. If the lever is moved too far when loading the bucket, the engine will stall.

Forward and reverse movement of the steering handle can be made at any engine speed, or any travel speed in forward or reverse.

The steering handle also acts as a brake. If the machine is moving forward, pull the handle back slightly toward the reverse position to stop the machine.

Gradual, controlled, and counter-rotating turns can be obtained with proper control of the T-bar.



STOPPING THE ENGINE

1. Stop the loader on a level area if possible and lower bucket to ground. Apply the parking brake.

2. Idle down the engine for a few minutes before stopping. Sudden cooling of a hot engine causes extreme contraction of parts, and may cause damage to the engine.

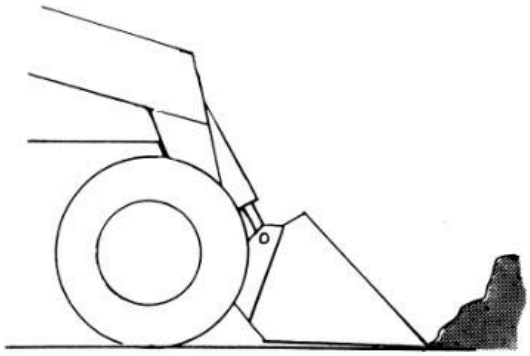
WARNING! Always lower attachment, engage parking brake, and stop engine before leaving machine.

3. Diesel- Pull up the fuel shut-off knob all the way, then turn the key switch to the vertical (off) position.

4. Remove the ignition key before leaving the operators seat.

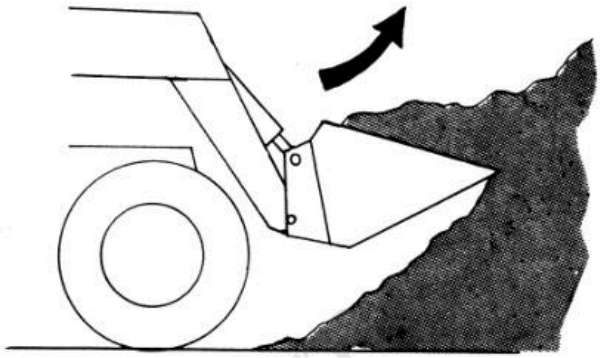
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LOADING THE BUCKET



IMPORTANT: Keep the working area as level as possible.

1. Approach pile with bucket cutting edge on ground and lift arm all the way down.

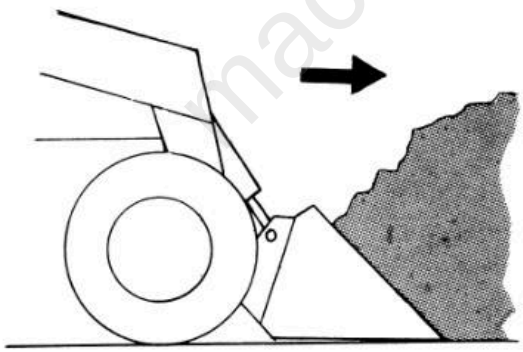


3. Continue driving forward, lifting boom and rolling bucket back to fill it.

NOTE: If bucket is rolled back too quickly, it will not fill completely. If hydraulic system stalls, release either lift or tilt function to allow hydraulic force to act upon one set of cylinders.

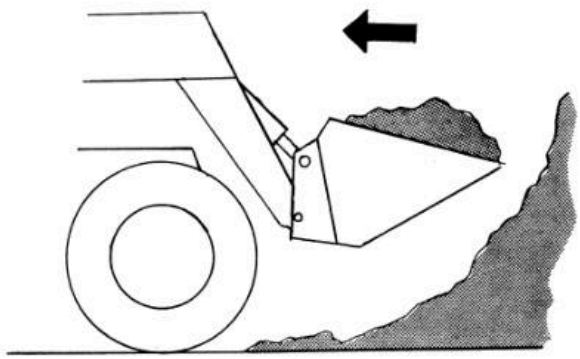


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2. Drive forward into pile to fill bucket.

NOTE: To achieve maximum power while loading, run engine at full throttle and ease machine into pile with light forward pressure on the T-lever. Entering the pile at full speed may kill the engine.



4. Back away from pile.

CAUTION! When backing up with a loaded bucket, keep load low and increase speed gradually. A sudden backwards acceleration with a full bucket and boom raised can cause loader to upset.

FUELS AND LUBRICANTS

Radiator Coolant:

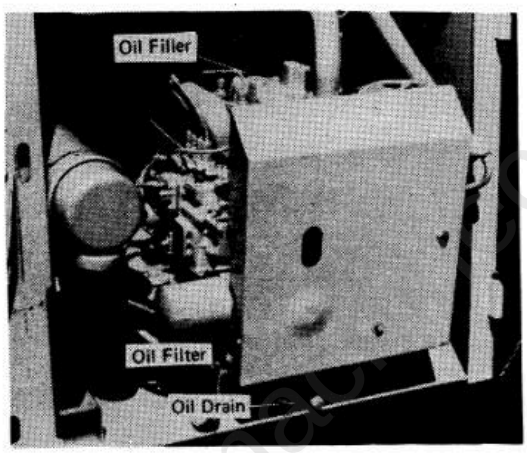
Radiator should be filled with a 50% mixture of water and ethylene-glycol type antifreeze. This is important in warm weather as well as cold because antifreeze raises the boiling point, protects against corrosion and lubricates the water pump.

Engine Oil - Kubota Diesel:

Use only oils of A.P.I. service classification CD or better. This is the same as U.S. Military Specification MIL-L-2104C. If lower grade oil is used, the service interval must be reduced. Diesel engine holds 9 quarts of oil (8.5 liters)

Change the type of engine oil according to the ambient temperature.

above 77°F SAE30
32°F ~ 77°F SAE20
below 32°F ..... SAE10W or SAE10W-30

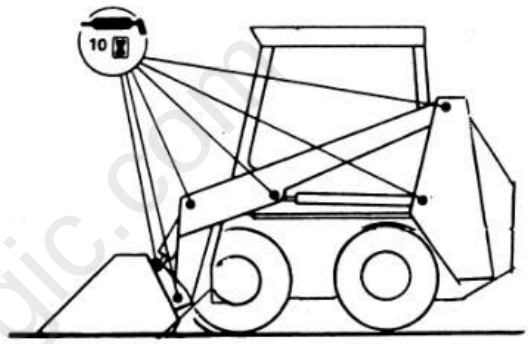


When changing oil filter, use Austoft Part Number 425-33721

IMPORTANT! **Do not overfill crankcase. Overfilling causes the oil to foam and enter the breather system.**

Grease Points:

Pivot points should be greased daily or every 10 hours. There are 12 pivot points to be greased. The hydrostatic pump spline needs grease less frequently.



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SPECIFICATIONS

FLUID CAPACITIES

Cooling system..... 12 qt. (11.4L)

Fuel tank.....14.3 gal (54L)

Chain box.....6 gal. (22.7L)

Engine lubrication oil (includes 1/2 qt. w/filter replacement).....9 qt. (8.5L)

Hydraulic system .....15 gal. (57L)

Kubota Diesel 1902 Engine

Fuel ..... Diesel, No. 2

Cooling medium ..... Liquid

No. of cylinders ..... 4 in-line

Displacement 113.6 cu. in. (1861 cc)

Bore ..... 3.35 (85 mm)

Stroke ..... 3.23 (82 mm)

* Horsepower 38.0 at 2800 rpm (28.3 kw)

High idle speed ..... 2900 rpm

* Torque 85.5 ft. lb. at 1600 rpm (115 mm)

Alternator ..... 60 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

Crankcase ventilation ..... External

*Manufacturers' Rating

HYDRAULIC SYSTEM

Pressure, relief ..... 2050 psi

Control ..... 3-spool valve, foot pedals

Pump ..... vane, 14.5 gpm (55.1 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	28.38 in. (721 mm)	11.25 in. (286 mm)

TRAVEL SPEEDS

Forward or reverse ..... 0-6.4 mph (10.2 km/h)

Turning radius ..... 360 degrees in its own length

OPERATIONAL SPECIFICATIONS

Load rating ..... 1350 lbs. (614 kg) (½ SAE tip-up)

Tipping load (SAE) ..... 2700 lbs. (1228 kg)

Breakout force ..... 3300 lbs. (1500 kg)

Raising time ..... 4.8 sec.

Lowering time ..... 3.4 sec.

Dumping time ..... 1.6 sec.

Rollback time..... 1.8 sec.

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