MTL312
MTL316
MTL320
MTL325

Mustang Track Loader

Operator's Manual

917300

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Mustang Manufacturing Co., Inc.

Mustang MTL312, MTL316, MTL320 and MTL325 Compact Track Loader Operator Manual (917300)

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: MTL312, MTL316, MTL320 and MTL325

Machine: Compact Track Loader

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- SAFETY ALERT SYMBOL
- INTRODUCTION
- MACHINE DESCRIPTION
- SAFETY
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- MUSTANG MANUFACTURING COMPANY, INC. WARRANTY
- California Proposition 65 Warning

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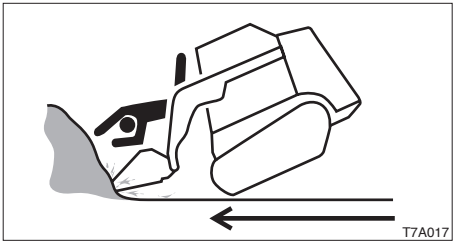
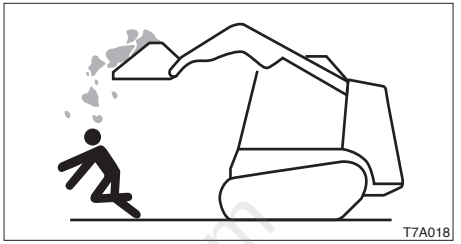
Sample pages follow. Full manual: machinecatalogic.com

Do not drive into materials at high speeds



Driving at high speed into the materials you are handling can lead to your body striking the machine or being thrown from the machine. Check the conditions surrounding the area in front of the material you are handling and work at low speeds.

Do not carry the bucket over the heads of people

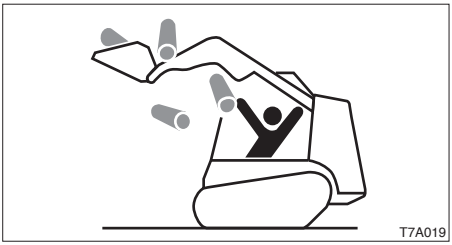


Carrying the bucket over the heads of people entails the danger of the load spilling or the bucket suddenly dropping.

Operate on snow or ice with extra caution

- When traveling on snow or frozen surfaces, keep the machine travel speed down and avoid accelerating, stopping and changing directions abruptly.
- Remember that the road shoulder, fences, etc., may be buried in the snow and not visible.
- Lower the bucket when parked on unsure ground conditions.

Caution against falling unstable loads



Unstable loads such as round items, cylindrical items, and stacked plates entail the possibility of falling from the bucket. When handling unstable loads, operate carefully to avoid raising the bucket too high or tilting it too far rearward.

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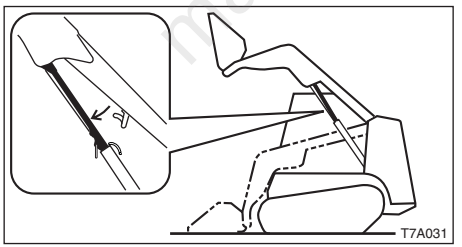
Securely block the machine or any component that may fall



- Before performing maintenance or repairs under the machine, set the bucket against the ground or in the lowermost position.
- Securely block the tracks.
- If you must work beneath the raised machine or equipment, always use lift arm stop, jack-stands or other rigid and stable supports. Never get under the machine or working equipment if they are not sufficiently supported. This procedure is especially important when working on hydraulic cylinders.

Securely block the raised lift arms



- If you must work beneath the raised lift arms, securely engage the lift arm stop. Never get under the lift arms and bucket if they are not sufficiently supported.
- Disconnecting or loosening any hydraulic line, hose, fitting or component or a parts failure can cause the lift arms to drop.
- Service the lift arm stop if damaged or if parts are missing. Using a damaged lift arm stop or with missing parts can cause the lift arms to drop, causing injury or death.

Secure the rear door when opened

Be sure to secure the rear door when opening it. Do not open the rear door on slopes or in strong wind.

Cautions on tilting up the ROPS

- Raising or lowering the ROPS while the engine is running may cause the machine to move, and cause serious injury or death. Lower the working equipment to the ground and stop the engine before raising or lowering the ROPS.
- When the ROPS is tilted up, support it firmly with the stop to prevent it from falling.

Place heavy objects in a stable position



When removing or installing the bucket or attachment, place it in a stable position so that it does not tip over.

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MEMO

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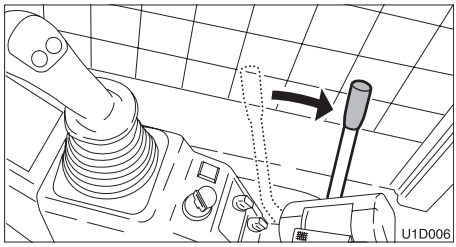
Operating the Left Control Lever

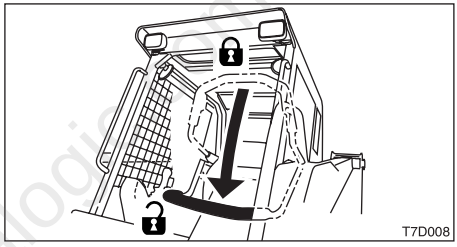
⚠ WARNING

- **Never allow anyone to enter the turning radius and machine path.**
- **Signal your intention to move by sounding the horn.**
- **Traveling and turning should be performed with the bucket cylinder fully retracted and the bucket at a height of approximately 30 cm (12 in.) from the ground.**
- **Avoid sudden stops, start or turns.**
- **Do not raise the safety bar while traveling. This is dangerous, because raising the safety bar will cause the parking brakes of the travel motors to operate and apply the brakes abruptly.**
- **Do not switch off the ignition switch while traveling. Doing so will cause sudden braking and is dangerous.**
- **Before backing up, visually check for safety to the rear. Backing up without checking could result in contact with a worker or obstacle.**
- **If unavoidable while traveling, when operating the working equipment, do so with care.**
- **Avoid crossing over obstacles whenever possible. If you must do so, keep the bucket close to the ground and travel slowly. Never cross obstacles if they will seriously tilt the machine (to an angle of 15° or greater).**
- **When traveling on rough terrain or when carrying a load, lower the load and travel slowly.**
- **Remove any obstacles in the machine's path.**

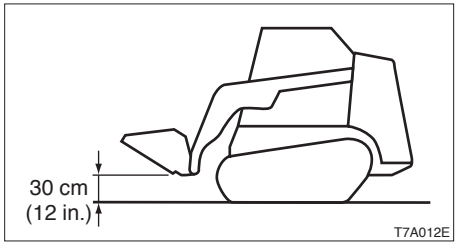
Use the left control lever to operate the crawler tracks.
Return the left control lever to the neutral position to stop the tracks.



1. Increase the engine speed.



2. Set the safety bar to the released position.



3. Roll back the bucket fully and lift the bucket to 30 cm (12 in.) above the ground.

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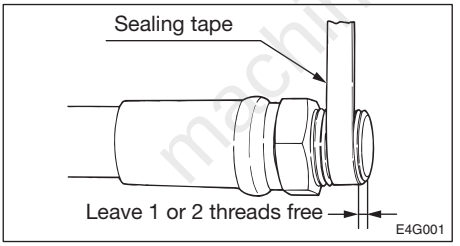
Do not clean parts with fuel.
Do not use fuel to clean parts. Use a non-combustible cleaning agent.

Keep dirt out.
When mounting and removing parts, do so in a place where there is no dust, clean the working area and the part, and keep dirt out.

Clean mounting surfaces.
When mounting and removing parts, be sure that the surfaces of contact of the parts are clean. If the sealing grooves of the surface of contact are damaged, consult a Mustang dealer.

Seals and split pins
- Replace removed seals and split pins with new ones.
- When mounting, be careful not to damage or twist the seal.

Sealing tape



- When wrapping sealing tape around plugs, etc., remove any old sealing tape from the threads and clean the threads.
- Wrap the sealing tape tight, leaving 1 or 2 threads at the tip free.

Disposing of wastes
- Collect waste fluids from the machine in containers. Disposing of wastes irresponsibly damages the environment.
- Dispose of oil, fuel, cooling water, coolant, filters, batteries and other harmful substances as prescribed by law.

Check after maintenance
- Gradually increase the engine speed from a low idle to maximum speed and check that there is no oil or water leaking from serviced parts.
- Operate all the control levers and check that the machine is operating properly.

Cautions on handling of battery cables
- Disconnect the battery cables (+,–) before working on the electrical system or doing any welding.
  Remove the negative (–) battery cable first.
  When reconnecting the battery, connect the negative (–) battery cable last.
- Do not disconnect the battery cables while the engine is running. Doing so could damage the electronic circuitry of the alternator and other parts.

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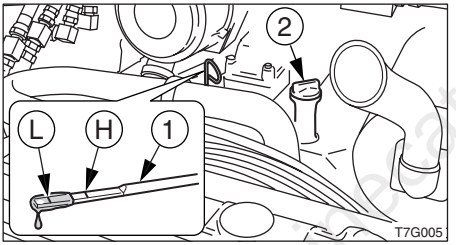
Replacing the Engine Oil and Oil Filter

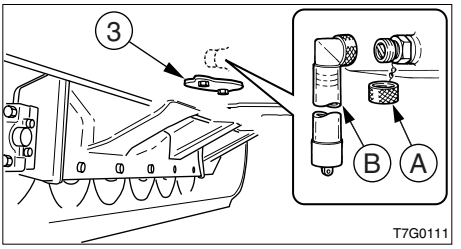
⚠ WARNING

Stop the engine and allow the machine to cool before performing maintenance.

- **The engine, muffler, radiator and many other parts of the machine are hot directly after the engine is stopped. Touching these parts will cause burns.**
- **The engine oil is also hot. Be careful when loosening caps and plugs. Working on the machine under these conditions could result in burns.**



1. Open the engine hood.
2. Tilt up the ROPS.
   Refer to page 151, "Tilting Up the ROPS."
3. Remove the oil supply cap (2).



4. Place a pan under the under cover (3).
5. Loosen the bolts and remove the under cover (3).
6. Remove cap (A), install connector (B) and drain the oil. (The oil comes out when the screw is tightened.)
7. Remove connector (B) and install cap (A).

IMPORTANT: Check the waste oil. If it contains large amounts of metal powder, consult a Mustang dealer.

8. Install the under cover (3).

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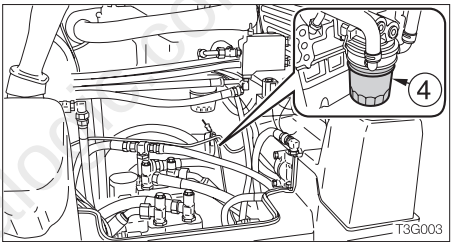

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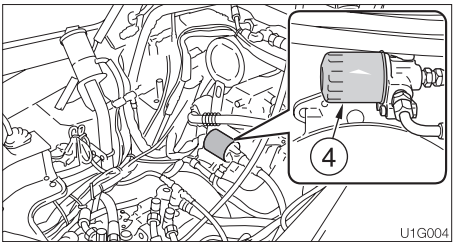

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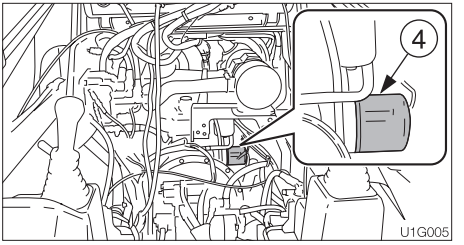

9. Using a filter wrench, turn the filter (4) counterclockwise and remove it.

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Warning lamp	Lamp name	Procedure
 T7B008	**Pilot line filter warning lamp**	This indicates the hydraulic oil pilot line filter is clogged. Stop the engine and replace the filter. Replace the filter immediately if the lamp flashes. Refer to page 126, “Replacing the Pilot Line Filter.” **IMPORTANT: Continuing to operate the machine while the lamp is lit could damage the line filter and hydraulic equipment.** Cold weather operation: Hydraulic oil is not heated. Refer to page 75, “Warming up the hydraulics.”

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TYPE			ROPS
MASS			
Machine mass kg (lb.) (not including operator)	Rubber tracks		5090 (11220) [5155 (11365)]*
PERFORMANCE			
Bucket capacity m^3 (cu.ft.) (standard bucket)	Heaped		0.579 (20.45)
	Struck		0.426 (15.04)
Travel speed km/h (mph)	Rubber tracks	1st	7.8 (4.85)
		2nd	12.0 (7.46)
Gradeability (degrees)			30
Ground pressure kPa (psi)	Rubber tracks		31.0 (4.5) [31.6 (4.58)]*
Noise level dB (A) <For EU>	Sound-power level		L_{WA} 105
	Sound-pressure level		L_{pA} 85
ENGINE			
Manufacturer and model			KUBOTA V3800DI-T-E3B-TLTU-1
Rated output kW / min^{-1} (hp / rpm)			68.3 / 2600 (91.6 / 2600)
Displacement ml (cu.in.)			3769 (230)
Starter V - kW			12 - 3.0
Alternator V - kW			12 - 0.72
Battery V - A·h			12 - 92

* [ ] : for High-flow hydraulic system

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