1050RT | 1050RT (EU) | 1050RT X-Series

Compact Track Loader

Operator's Manual

50950436 Rev. I 04/22

Original Instructions

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Mustang 1050RT Compact Track Loader Operator Manual (50950436I)

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Main contents

- Introduction
- Safety
- Decals
- Specifications
- Indicators and Controls
- Operation
- Lubrication
- Maintenance
- Troubleshooting
- Index
- Torque Specifications

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Sample pages follow. Full manual: machinecatalogic.com

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O. Regen/Return Button – Used for different functions depending upon screen and context: • Switches to the Regen display mode if the symbol is displayed on the screen. Also initiates DPF regeneration if all appropriate conditions are met. • Used to return to previous screen. Corresponds to the symbol on the display screen.	R. Regen Inhibit Button – Press for 5 seconds to inhibit DPF reset regeneration. Displays the symbol.

⚠ WARNING

If the LCD is broken, care must be taken with any leaking fluid. If LCD fluid gets onto your skin, wipe with a cloth and wash the area with mild soap and water. If LCD fluid gets into your eyes, thoroughly rinse your eyes with clean water for several minutes and seek medical assistance. If LCD fluid is swallowed, rinse your mouth thoroughly with clean water, then drink a substantial volume of water and induce vomiting. Then seek medical assistance.

Information Center Electronic Display Symbols

The following table describes symbols used in the information center electronic display.

NOTE: *Values may not display for all parameters, depending upon installed options and equipment.*

Table 13 - Symbols Descriptions

Symbol	Description	Symbol	Description
n/min	Engine crankshaft revolutions per minute.		Real-time fuel consumption rate. Displayed in gallons/hour (SAE) or liters/hour (METRIC).
	Accumulated operation time. Time is displayed in hours, and accumulates when the engine is running.		Display brightness increase. Press button (P, Fig. 8) when this symbol is displayed to increase screen brightness.
	Battery charging circuit voltage.		Display brightness decrease. Press button (Q, Fig. 8) when this symbol is displayed to decrease screen brightness.

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13. Light Switch – Controls all the lights on the loader. Symbols denote the four positions of the light switch. In a clockwise direction these are:

    • OFF
    • Tail Lights ON
    • Front Work Lights with Tail Lights ON
    • Both Front and Rear Work Lights

For the lights to function, the key switch must be in the RUN position.

14. Accessory Outlet – 12-volt DC power outlet.

15. Hydraglide™ Ride Control System (Joysticks option only) – Lights when the ride control system is activated. During normal operation this indicator should be OFF.

Operator's Seat

The operator's seat has adjustments for:

- Forward and back horizontal seat position.

WARNING

Never adjust the seat when the machine is in operation. Adjust the seat only when the machine is stopped and the parking brake is applied.

All controls must be within easy reach. The operator must be able to move the throttle pedal and the control handles through the complete range of motion.

After adjustments, make sure levers for the seat are fully engaged before using the machine.

Throttle Controls

Engine throttle controls engine speed, which determines available power.

Engine throttle is controlled with both a knob (I, Fig. 10) and a pedal (J, Fig. 11).

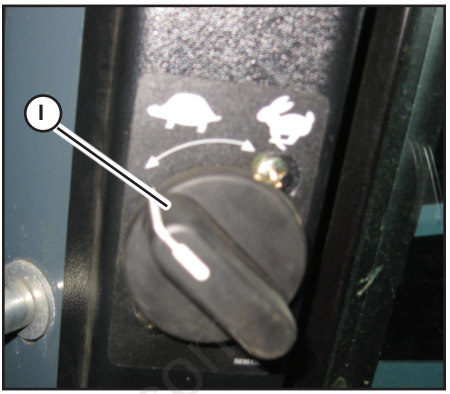


Fig. 10 - Throttle Knob

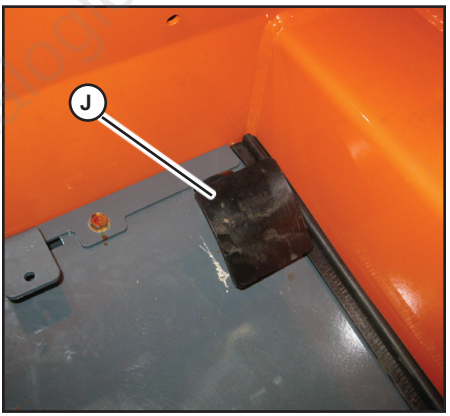


Fig. 11 - Pedal

The throttle knob (I) is the primary throttle control. Generally, the throttle is set with the knob to the desired position. The pedal can then be used to increase engine speed whenever additional power is required. When the pedal is released, the engine returns to the speed set by the throttle knob.

IMPORTANT: *Tier 4 engines are designed to be run hot, at high throttle settings under heavy loads. Extended periods of low-temperature Tier 4 engine operation rapidly increases DPF soot levels, requiring more frequent DPF regeneration operations.*

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Loading Trucks (or Hoppers)

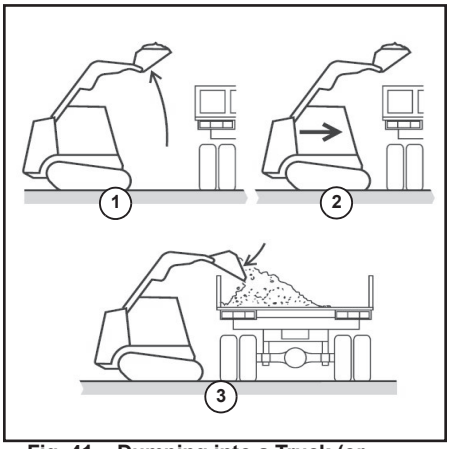


Fig. 41 - Dumping into a Truck (or Hopper)

IMPORTANT: *When the self-leveling feature is on, the tilt angle of the attachment is kept constant, relative to the ground plane, when the lift arm is raised: when the lift arm is lowered however, self-leveling is not activated.*

1. Approach the truck and stop, allowing for clearance to raise the lift arm and loaded bucket, and raise the bucket until the lower edge of the bucket clears the truck bed.
2. Drive slowly forward and stop with the bucket over the inside of the truck.
3. Tilt the bucket forward and dump the material into the truck bed.
4. When the truck is half-loaded, use the bucket to spread the load evenly.
5. Back away from the truck while tilting the bucket back and lowering the lift arm.

Tips When Loading Trucks

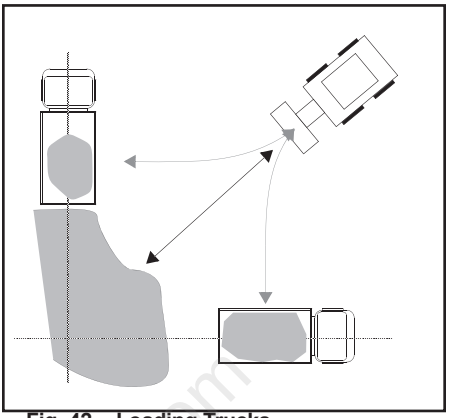


Fig. 42 - Loading Trucks

1. The truck and machine working direction should form an angle of 45°.
2. Only raise a full bucket to the height needed for dumping when you are driving in a straight line toward the truck.
3. Dump with the wind behind you to keep dust away from your face, air filters and fans.

Backfilling Holes and Embankments

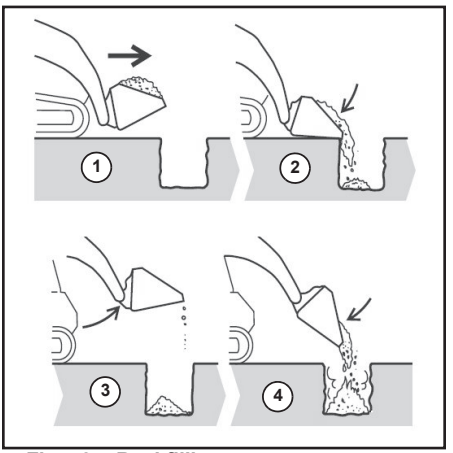


Fig. 43 - Backfilling

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⚠ CAUTION

Do not use the starter motor to crank the engine to prime the fuel system. Damage to the engine starter motor, coils, pinion/ring gear could result.

Engine Air Filters

IMPORTANT: *Do not operate the engine without the air cleaner components installed or damage to the engine could occur.*

The air cleaner consists of an outer (primary) filter element and an inner (secondary) filter element. An air filter restriction indicator for monitoring the condition of the elements is located on the right side of the front of the air cleaner. If the air filter becomes restricted, this indicator will turn red to warn the operator that the element(s) require service. Push the reset button located on the end of the indicator after fitting a clean element.

NOTE: *Before replacing the filter element(s), push the reset button on the indicator. Start the engine and adjust the throttle to full speed. If the indicator does not turn red, do not replace the element(s).*

The outer element should be replaced only when the restriction indicator turns red. The inner element should be replaced every third time the outer element is replaced, unless the outer element is damaged or the inner element is dirty.

Along with a daily check of the restriction indicator, check the air cleaner intake hose and clamps, and the mounting bracket hardware to be sure they are properly tightened.

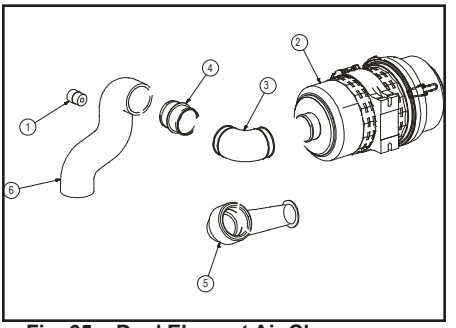


Fig. 65 - Dual Element Air Cleaner
1. Restriction Indicator
2. Element Housing
3. Elbow Hose
4. Hose Connector
5. Sound Diffuser/Intake Suppressor
6. Air Intake Tube

Access

1. Open the rear door and engine access cover.
2. Unlatch the clamps on the air cleaner and remove the cover. Clean out any dirt built up in the cover assembly.

Outer Element

1. Carefully pull the outer element out of the housing. Never remove the inner element unless it is to be replaced.
2. Clean out any dirt built up in the housing. Leave the inner element installed during this step to prevent debris from entering the engine intake manifold.
3. Replace the outer element.

NOTE: *Manitou Group does not recommend cleaning the outer element.*

4. Use a trouble light inside the outer element to inspect for spots, pinholes or ruptures. Replace the outer element if any damage is noted. The outer element must be replaced if it is oil- or soot-laden.

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Electrical Troubleshooting

Problem	*Possible Cause*	*Corrective Action*
Electrical system does not function	Battery disconnect switch is in its OFF position	Turn battery disconnect switch to its ON position.
	Battery terminals or cable loose or corroded	Clean battery terminals and cables and re-tighten.
	Battery malfunction	Test battery. Recharge / replace as necessary.
	Blown main fuse	Corect over-current problem and replace main fuse.
	Main wiring harness connectors at rear of ROPS/FOPS not properly plugged in	Check main harness connectors. Reconnect / repair as needed.
Control pad and information center display do not activate with ignition key switch in the ON/RUN position	Blown fuse	Check circuit and replace fuse.
	Battery terminals / cables loose / corroded	Clean battery terminals and cables and tighten.
	Main wiring harness connectors at rear of ROPS/FOPS not properly plugged in	Check main harness connectors. Reconnect / repair as needed.
Starter does not engage when ignition key switch turned to its START position	Poor electrical connections in start circuit	Check connections; repair as necessary.
	Battery terminals / cables loose / corroded	Clean battery terminals and cables and tighten.
	Starter relay malfunction	Test relay; replace if necessary. Contact dealer.
	Battery discharged / malfunctioning	Test battery. Recharge / replace if necessary.
	Starter solenoid malfunction	Contact dealer.
	Starter or pinion malfunctioning	Repair / replace as needed.
	Ignition wiring, seat switch, restraint bar switch, etc. loose or disconnected	Check wiring for poor connections, broken leads; repair wiring or connection.
	Restraint bar raised	Lower restraint bar.
	Engine fault code(s)	Contact dealer.
Fuel gauge inoperative	Fuel level sender malfunction	Replace fuel level sender.
	Loose wiring / terminal connections	Check wiring connections.
	Blown fuse	Check circuit and replace fuse.
	Fuel gauge malfunction	Replace gauge.

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