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1850RT | 2150RT | 2550RT

Compact Track Loader

Operator's Manual

50940611 Rev. E 04/21



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Mustang 1850RT, 2150RT and 2550RT Compact Track Loader Operator Manual

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Main contents

- EC Declaration of Conformity
- Delivery Checklists
- Introduction
- Safety
- Decals
- Specifications
- Indicators and Controls
- Operation
- Maintenance
- Troubleshooting
- Schematics
- Torque Specifications

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Sample pages follow. Full manual: machinecatalogic.com

Chapter 2
INTRODUCTION

Safety Symbol and Signal Words

This manual and decals on the machine warn of safety hazards and should be read and observed closely.

Manitou Group, in cooperation with the Society of Automotive Engineers, has adopted this:



This symbol is used throughout this operator's manual and on the decals on the machine. It identifies potential safety hazards, which, if not properly avoided, could result in injury. When you see this symbol in this manual or on the machine, you are reminded to BE ALERT! Personal safety is involved!

Signal Words

⚠ DANGER

The word "DANGER" indicates an imminently hazardous situation, that, if not avoided, will result in serious injury or death.

⚠ WARNING

The word "WARNING" indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death.

⚠ CAUTION

The word "CAUTION" indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT: *The word "IMPORTANT" indicates situations that can result in possible damage to the machine.*

NOTE: *The word "NOTE" indicates special or particularly useful information.*

Legal Notices

Software IP

Any extraction, decompilation, modification, duplication, or distribution of onboard software is strictly prohibited. Manitou shall have no liability for and hereby disclaims all direct and indirect liability for the consequences resulting from the use of any prohibited onboard software. Contact MANITOU for any request to correct or adapt onboard software for the purposes of interoperability.

Data Privacy

Manitou connected machines are equipped with boxes that collect technical data concerning the machines (such as geolocation, operating, and component data). This data, which is organized, processed, and enriched by Manitou's own algorithms and knowledge, constitutes a protected database in accordance with Article L.341-1 of the French Intellectual Property Code.

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Electrical System

Table 16 - Electrical System

	1850RT	2150RT	2550RT
Glow Plug (Engine Pre-heat)	Auto w/LED		
Backup Alarm	TYPE B-107 dB(A) 1 pulse/second		
Battery			
Type	Maintenance-free		
Volts	12V		
Group Size (BCI)	65		31
Cold Cranking Amps @ Temperature	850 CCA @ -18°C (0°F)		950 CCA @ -18°C (0°F)
Minimum Reserve Capacity @ 25A	150 minutes		170 minutes

Sound Power/Pressure Levels

Table 17 - Sound Power/Pressure Levels

	1850RT	2150RT	2550RT
Noise Level/Environmental Level (EU Dir. 2000/14/EC)	103.0 dB(A)		106.1 dB(A)
Operator Ear (EU Dir. 2006/42/EC)	82.0 dB(A)	83.0 dB(A)	85.8 dB(A)

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Control Button/Switches

Table 25 - Buttons/Switches

Indicator	Item	Description
	Parking Brake Button	Engages / disengages parking brake. Indicator in switch is lit while parking brake is applied. **IMPORTANT:** *Parking brake is applied whenever the safety bar/armrests are in the raised position, the operator is not in the seat, and / or if the swing-out door (if equipped) is opened.* When the parking brake is applied, both travel drive and attachment lift and tilt are disabled.
	Heat/Air Conditioning Fan (HVAC) Button	Turns cab HVAC blower fan on/off. Low, medium, and high settings are available. Refer to “HVAC (Option)” on page 69.
	HVAC Temperature Button	Turns cab heat/cool on/off. Low, medium, and high settings are available. Refer to “HVAC (Option)” on page 69.
	Self-Leveling Cancel Button (option)	Turns the self-leveling feature on/off. Press once deactivate self-leveling; press again to restore the self-leveling function. Indicator in switch is lit when self-leveling is deactivated.
	Work / Beacon / Road Lights Button	Activates work lights and/or optional beacon/road lights. Refer to “Work/Beacon/Road Lights” on page 69. Indicators in switch are lit when the lights are on. **NOTE:** *The red position lights on the back of the machine are activated whenever the machine is running.*
	Front Windshield Washer (option) Button	Activates windshield washer. Refer to “Window Wipers/Washers” on page 70.
	Rear Window Washer (option) Button	Activates rear window washer. Refer to “Window Wipers/Washers” on page 70.
	Front Windshield Wiper (option) Button	Turns windshield wiper on/off. Slow, medium, and fast settings are available. Refer to “Window Wipers/Washers” on page 70.
	Rear Window Wiper (option) Button	Turns rear window wiper on/off. Slow, medium, and fast settings are available. Refer to “Window Wipers/Washers” on page 70.
	Power-A-Tach® System Hitch Lock Button	Press and hold to lock attachments onto optional Power-A-Tach® System Hitch. Refer to “Connecting/Disconnecting Attachments” on page 93.

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⚠ WARNING

Do not use bent, cracked, or otherwise damaged fork arms/pallet forks.

Always inspect pallet forks each time before using. Refer to the pallet fork manufacturer's documentation and/or contact the pallet fork manufacturer for information regarding safe pallet fork condition criteria:

- **Check the fork arm locks for proper function and/or damage. Do not use pallet forks with damaged locks or locks that do not function properly.**
- **Visually check the fork arm hooks and/or bends for cracks and/or deformations. Do not use fork arms that are cracked and/or have deformations that make the fork arms unsafe.**
- **Do not use fork arms that have bends or blades that have more than 10 percent of the original material worn away.**
- **Check the fork arms blades and tips for deformations or holes.**

Transporting Loads Using Pallet Forks

IMPORTANT: *When the self-leveling feature is on, the tilt angle of the attachment is kept constant when the lift arm is raised. When the lift arm is lowered, self-leveling is not activated. Refer to "Self-Leveling" on page 89 for more information about the self-leveling feature.*

Loading Pallet Forks

1. Stop the machine immediately in front of the material
2. Position the fork arms parallel to the ground.
3. Make sure the fork arms are adjusted as far apart as possible, as allowed by the load, and are both the same distance away from the center-line of the load.
4. Adjust the height of the fork arms to fit the lifting area at the bottom of the pallet.
5. Drive slowly and carefully forward until the fork frame contacts the material.
6. Make sure the pallet is evenly and safely positioned on the pallet fork arms.

Lifting Loads Using Pallet Forks

7. Apply the parking brake.
8. Slowly raise the pallet forks. Do not raise the pallet forks any higher than required. Make sure to not exceed pallet fork load center and/or lifting capacity. Refer to "Payloads/Capacities" on page 42.
9. Lower the load immediately if you are unsure of the load, the equipment, or in case of any unsafe circumstances.
10. Tilt the pallet fork frame back slightly, to help retain the load.

Transporting Loads Using Pallet Forks

11. Make sure the area around and behind the machine is clear of bystanders and obstacles.
12. Slowly and carefully drive in reverse and lower the pallet forks to transport position when it is safe to do so. Refer to "Attachment Transport Position" on page 87.

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Air Conditioning Belt

Air conditioning belt (P, Fig. 112) tension is automatic and requires no adjustment.

Check air conditioning belt condition at regular intervals. If damaged, have the belt replaced by an authorized repair shop.

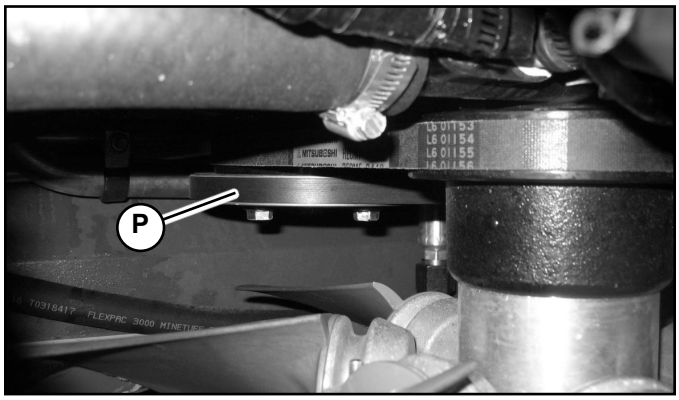


Fig. 112 - Air Conditioning V-Belt

DPF Service

Models 1850RT & 2150RT with Tier 4 Engines

DPF soot filter replacement is required when the DPF Service screen (Fig. 113) is shown on the multi-purpose display.

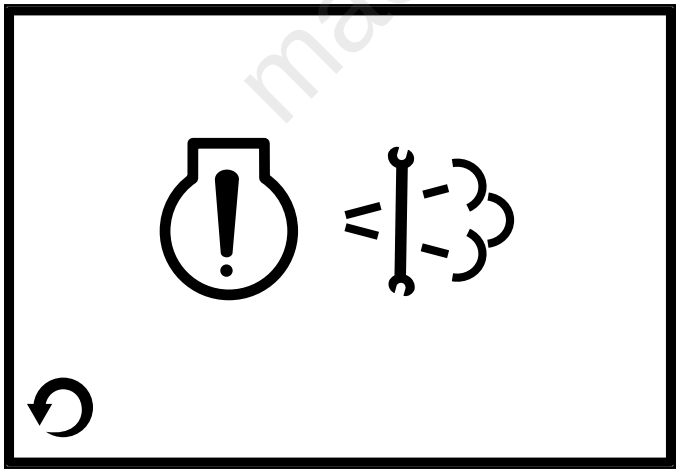


Fig. 113 - DPF Service Screen

NOTE: *DPF service should be performed only by an authorized dealer.*

Fuel System Maintenance

⚠ WARNING

Diesel fuel is flammable. Keep the machine away from open flames. Do not smoke when refueling or when working on the engine. Stop the engine before fueling.

Wear eye protection. The fuel system is under pressure and fuel could spray out when removing any fuel system component.

Wipe up spills immediately. NEVER use a shop rag to catch draining/leaking fuel. Vapors from the rag are flammable and explosive.

Failure to follow these instructions can cause fire and result in injury or death.

⚠ CAUTION

Use only proper types and grades of diesel fuel. Refer to “Fluids/Lubricants Types and Capacities” on page 39.

NOTE: *The fuel tank is filled at the factory with United States off-road grade diesel fuel, which is dyed red for identification. It may take several fillings of the fuel tank before the red dye is purged from the fuel system.*

IMPORTANT: *Service the fuel system only in an absolutely clean environment to avoid contamination.*

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Table 47 - Hydrostatic Travel Drive System Troubleshooting

Problem	Possible Cause	Corrective Action
Hydrostatic drive and lift/tilt not responsive	Hydraulic oil viscosity too heavy.	Allow longer warm-up.
		Replace hydraulic oil with proper type/ grade. Refer to “Fluids/Lubricants Types and Capacities” on page 39.
Drive does not operate in either direction	Parking brake applied.	Disengage parking brake. Refer to “Parking Brake/Work Hydraulics Lock-out” on page 67.
	Low hydraulic oil level.	Top-off hydraulic oil. Refer to “Checking Hydraulic Oil Level” on page 131.
	Low or no charge pressure.	Contact dealer.
	Hydrostatic pump(s) relief valves malfunction.	Contact dealer.
Drive system noisy	Hydraulic oil viscosity too heavy.	Allow longer warm-up.
		Replace hydraulic oil with proper type/ grade. Refer to “Fluids/Lubricants Types and Capacities” on page 33.
	Low hydraulic oil level.	Top-off hydraulic oil. Refer to “Checking Hydraulic Oil Level” on page 123.
	Air in hydraulic system.	Cycle lift and tilt cylinders to maximum stroke and maintain for a few seconds to clear air from the hydraulic system.
	Drive motor(s) or hydrostatic pump(s) internal damage/leakage.	Contact dealer.
Sluggish acceleration	Low hydraulic oil level.	Top-off hydraulic oil. Refer to “Checking Hydraulic Oil Level” on page 123.
	Low hydraulic system charge pressure.	Contact dealer.
	Drive motor(s) or hydrostatic pump(s) internal damage/leakage.	Contact dealer.
	Engine running rough.	Poor fuel quality or incorrect fuel type/ grade. Replace fuel with proper type/ grade. Refer to “Fluids/Lubricants Types and Capacities” on page 39.
		Restricted fuel filter/fuel system. Replace fuel filter; remove restriction. Refer to “Changing Fuel Filter” on page 130.
		Contact dealer.

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Full Version Available

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Mustang 1850RT, 2150RT, 2550RT compact track loader operator manual: safety, maintenance schedule, fluids, error codes, specs. Instant PDF download.

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