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1350R NXT2
1350R NXT2 (EU)
1350R NXT2 X-Series
(SN 188602 and Up)

1500R NXT2
1500R NXT2 (EU)
1500R NXT2 X-Series
(SN 190802 and Up)



Skid-Steer Loader

Operator's Manual

50950504 Rev. E 05/21

Original Instructions

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Mustang 1350R NXT2 and 1500R NXT2 Skid Steer Loader Operator Manual (50950504E)

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Main contents

- Introduction
- Safety
- SAFETY EQUIPMENT
- Indicators and Controls
- Operation
- Maintenance
- Troubleshooting
- Specifications
- Index

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Sample pages follow. Full manual: machinecatalogic.com

1350R NXT2, 1500R NXT2 Skid-Steer Loader Operator's Manual

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MACHINE INFORMATION

Purchased from	
Date of Purchase	
Loader Model Number	
Loader Serial Number	
Engine Serial Number	

CHAPTER 4

INDICATORS AND CONTROLS

WARNING

Become familiar with all controls before operating the machine. Know how to stop the machine before starting it. The machine is designed and intended to be used only with Manitou-approved attachments or accessories. Manitou cannot be responsible for operator safety if the machine is used with unapproved attachments.

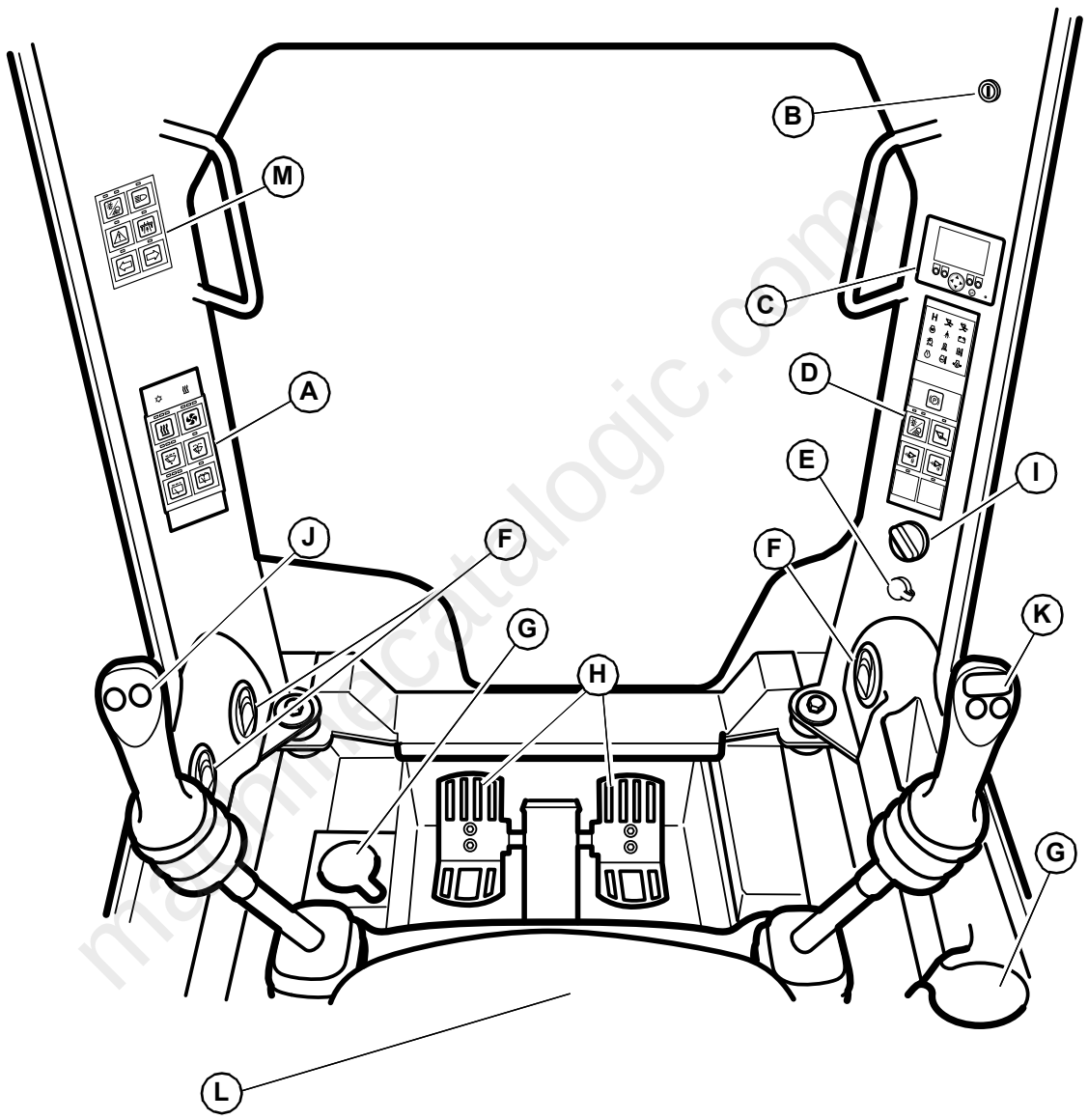


Figure 15 – Controls (Hand/Foot Control Option Shown)

A. Accessory Keypad (page 36)	F. HVAC Vent Nozzle	K. Right Hand Control (page 47)
B. Ignition Keyswitch (page 42)	G. Cup Holder	L. Operator's Seat (page 29)
C. Information Center Electronic Display (page 38)	H. Foot Controls (page 47)	M. Optional Lights/Lockout Keypad (page 37)
D. Control Keypad (page 34)	I. Throttle Control (page 43)	
E. Electrical Accessory Socket	J. Left Hand Control (page 47)	

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WARNING

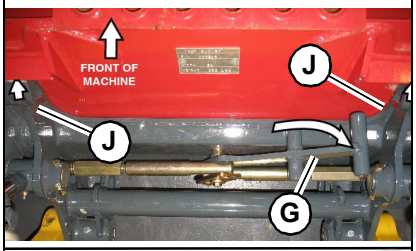
To prevent unexpected release of the attachment from the hitch, make sure the attachment is fully locked onto the hitch before using the attachment. On manual All-Tach® hitches, rotate the latch levers fully. On Power-A-Tach® hitches, verify that the pin flags are all the way to the outside of the hitch.

Always verify that the locking pins on the hitch are fully engaged down through the holes in the attachment frame before using the attachment. The attachment could fall off if it is not locked on the hitch and could cause serious injury or death.

Connecting Attachments

1. In an open, level area, place the attachment lock into the unlocked position (Figure 60):
   - **All-Tach® system manual hitch:** Move hitch lock lever (G) all the way to the right.
   - **Power-A-Tach® system quick attach hitch:** Press the Power-A-Tach® system unlock button (I) on the control keypad until safety flags (H) have moved all the way in.

Manual Attachment Hitch In Unlocked Condition



Power-A-Tach® System Quick Attach Hitch In Unlocked Condition

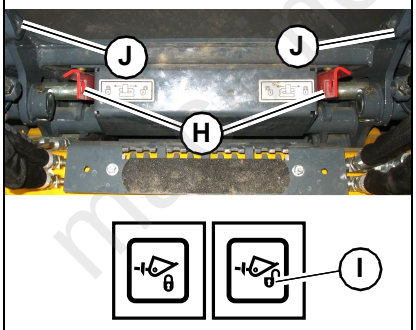
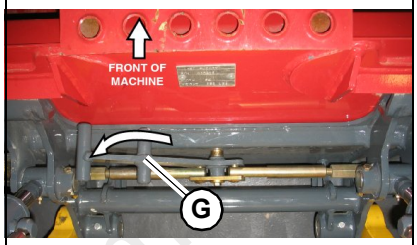


Figure 60 – Attachment Hitch Unlocked

2. Tilt the attachment plate forward and drive the machine straight forward toward the back of the attachment
3. Lower the lift arm so tabs (J) on the top of the attachment plate are aligned just under the hooks on the back of the attachment.
4. Tilt the attachment plate back until tabs (J) on the top of the attachment plate are engaged against the hooks on the back of the attachment.
5. Raise the lift arm slightly until the attachment is hanging from the hooks on the back of the attachment and tabs (J) are firmly inserted into the hooks. Tilt the attachment plate back, if necessary, so the back of the attachment is resting flat against the attachment plate.
6. Place the attachment lock into the locked position (Figure 61):
   - **All-Tach® system manual hitch:** Perform the "Mandatory Safety Shutdown Procedure" on page 9 and move hitch lock lever all the way to the left (G).
   - **Power-A-Tach® system quick attach hitch:** Press the Power-A-Tach® system lock button (N) on the control keypad. The safety flags (H) will move to the outside of the hitch.

Manual Attachment Hitch In Locked Condition



Power-A-Tach® System Quick Attach Hitch In Locked Condition

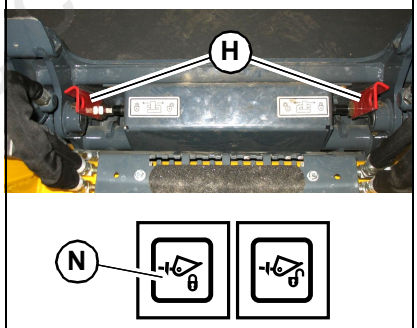


Figure 61 – Attachment Hitch Locked

Note: *It is safe to operate the loader with the warming circuit on or off, it won't affect the performance of the loader.*

7. Make sure the locking pins (F, Figure 62) are fully engaged down through the holes in the attachment.

WARNING

To prevent unexpected release of the attachment from the hitch, be sure the locking lever is rotated all the way to the right (as viewed while facing back at the machine from the front) and the locking pins (F, Figure 62) extend down through the attachment frame.

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Engine Mounting Hardware Inspection

WARNING

Perform the Mandatory Safety Shutdown Procedure. Allow hot engine and hydraulic system components to cool before servicing.

All bolts that secure the engine mounting brackets to the engine and the chassis should be checked and re-tightened as necessary.

Checking Engine Oil Level

Check the engine oil level daily before starting the machine, or after every 10 hours of use.

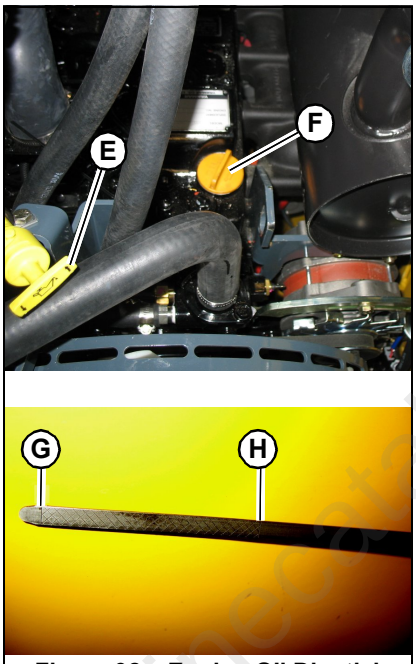


Figure 92 – Engine Oil Dipstick and Fill Cap

1. Park the machine on a level surface.
2. Perform "Mandatory Safety Shutdown Procedure" on page 9.
3. Wait until the engine has cooled.
4. Open the engine access cover and rear door.
5. Twist engine oil dipstick (E, Figure 92) counterclockwise to unlatch it. Remove the dipstick from the engine.
6. Wipe the dipstick with a clean cloth and replace it in the engine. Push it in until it is fully inserted.
7. Remove the dipstick again. The oil level should be within the "Add" (G) and "Full" (H) markings.
8. If the oil level is below the "Add" marking:
   a. Clean the area around the oil fill cap (F) with a clean cloth.
   b. Remove fill cap (F).
   c. Add oil through the fill cap opening until the level reaches the "Full" mark.
   d. Replace and tighten fill cap (F).

Important: *Do not over-fill the engine with oil; engine damage could result.*

Changing Engine Oil and Filter

Refer to the "Maintenance Schedules" on page 80 for the service interval for replacing the engine oil and filter.

1. Park the machine on a level surface.
2. Perform "Mandatory Safety Shutdown Procedure" on page 9.
3. Wait until the engine has cooled, but is not completely cold.

Note: *Oil drains faster and more completely when warm.*

4. Remove the rear belly pan to access engine oil drain plug (X, Figure 93).
5. Position a waste oil collection container under the engine oil drain plug to catch draining oil.

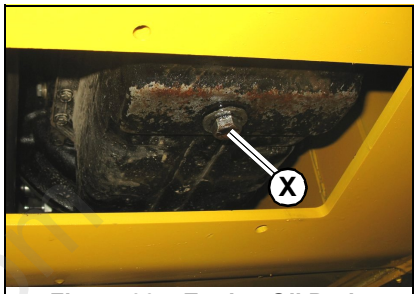


Figure 93 – Engine Oil Drain Plug

Important: *Dispose waste engine oil according to environmental laws, or take to a recycling center for proper disposal. DO NOT pour waste engine oil onto the ground or down a drain.*

6. Remove drain plug (X) or (A) and allow engine oil to drain into the waste oil collection container.
7. Remove oil filter (W, Figure 94), using a filter wrench if necessary. Carefully clean the filter head mounting surface with a clean cloth.

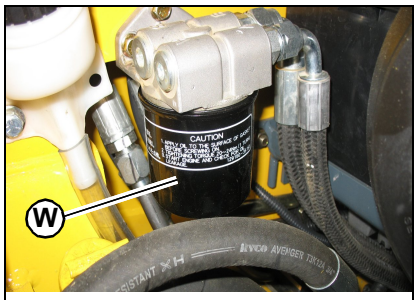


Figure 94 – Engine Oil Filter

8. Put clean oil on the new oil filter gasket. Install the filter and tighten 3/4 of a turn past the point where the gasket contacts the filter head.
9. Reinstall and tighten the drain plug.
10. Clean the area around oil fill cap (E, Figure 92). Remove oil fill cap (E) and add the recommended type and amount of oil. See "Fluid Capacities/Lubricants" on page 115. Replace and tighten oil fill cap (E) after the oil is added.

    Note: *Oil capacity listed is approximate. Always verify proper oil level with the engine oil dipstick.*

Important: *Do not over-fill the engine with oil; engine damage could result.*

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Sound Levels

Table 43: Sound Power/Pressure Levels[a]

Sound Power Level (Environmental)	101 dB(A)
Sound Pressure Level (Operator Ear)	85 dB(A)

a. With sound attenuation package. 1350R/1500R with interim Tier 4 engine.

Vibration Levels

Table 44: Whole-Body and Hand-Arm Vibration Levels[a]

Model 1500R		
Whole Body Vibration Values		
Seat Option	**Vibration m/s^2**	**Uncertainty m/s^2**
Standard Non-Suspension	0.80	0.4
Mechanical Suspension	0.68	0.3
Air Ride Suspension	0.73	0.4
Hand-Arm Vibration Values		
Control Option	**Vibration m/s^2**	**Uncertainty m/s^2**
Hand/Foot	1.60	0.8
T-Bar	1.30	0.7
Model 1350R		
Whole Body Vibration Values		
Seat Option	**Vibration m/s^2**	**Uncertainty m/s^2**
Standard Non-Suspension	0.90	0.5
Mechanical Suspension	0.81	0.4
Air Ride Suspension	0.75	0.4
Hand-Arm Vibration Values		
Control Option	**Vibration m/s^2**	**Uncertainty m/s^2**
Hand/Foot	1.90	1.0
T-Bar	1.77	0.9

a. Whole-Body Vibration levels in accordance with ISO 2631-1. Hand-Arm Vibration levels in accordance with ISO 5349-1.

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Full Version Available

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