CEAM025604

Operation & Maintenance Manual

XT430-2
XT430L-2
XT445L-2
XT450L-2

CRAWLER FELLER BUNCHER/HARVESTER

SERIAL NUMBERS	XT430-2 A1001 - A1034
	XT430L-2 A2001 - A2038
	XT445L-2 A3001 and up
	XT450L-2 A4001- A4056
ENGINE	QSC 8.3 TIER 3

June 2016

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Travel Controls

⚠ WARNING

- **You must read and understand all safety messages and instructions in Section 1 of this manual before beginning operating procedures.**
- **The cab door must be closed and secured before beginning any operations. If the door is not fully closed, the safety interlock system will lock out all hydraulic controls.**
- **Operate the travel controls gradually and smoothly. Excessive speed and quick control movements are hazardous and could cause an accident.**

⚠ WARNING

- **The travel direction of the machine is with the track drive sprockets toward the rear of the machine when you are looking out the front window.**
- **Do not travel at high speed for more than 30 minutes. When traveling at high speed for a long period of time, overheating of the final drives could result. Stop the machine at regular intervals and allow the drives to cool.**

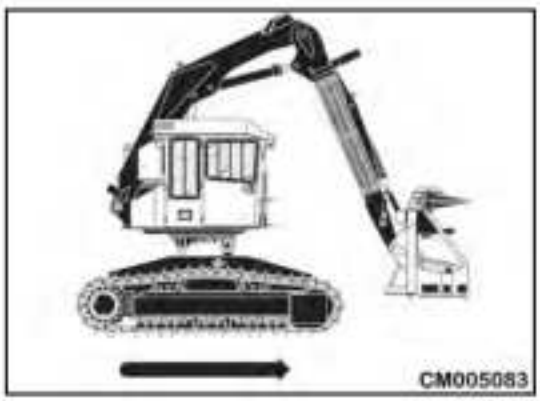
Forward Travel

To travel forward, push down on the top of both travel pedals with your toes (1). The farther the pedals are pressed downwards, the faster the machine will travel.

To stop traveling, release the pedals and they will return to the neutral position stopping machine movement.

Check that the travel alarm sounds properly.





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Lubrication

Use a good quality grease containing at least 5 - 6% Molybdenum at all pin joints. Komatsu recommends Mobil grease XHP 322 Mine. Grease meeting the above requirement has a higher rated load pressure than a typical multi-purpose EP grease.

Add grease at the following points until it appears at the pivot area.

Boom and Cylinder Pivots

1. On the underside of the stick there is a group of remote grease fittings (1) for the following lubrication points:

- Main boom cylinder rod end pivot.
- Stick cylinder base end pivot.
- Stick cylinder rod end pivot.
- Boom pivot (2 fittings).
- Tool tilt cylinder base end pivot (2 fittings).

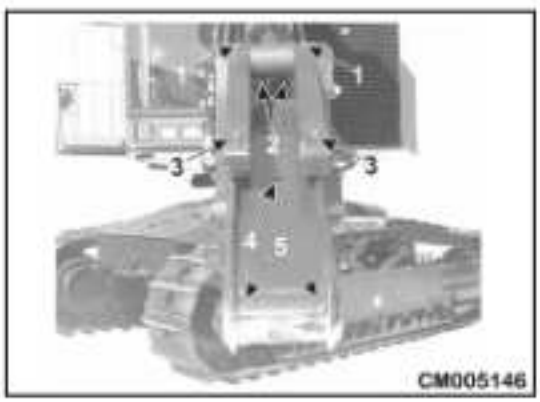


2. The main boom lubrication points are located at the base end of the boom, accessed from the rear of the machine. Two Main Boom Cylinder base end pivot lubrication points (1) are located on the inside of the boom base weldment. The Main Boom Pivot lubrication is done through two grease points (2) underneath the base of the boom.



3. Located at the front end of the stick assembly are several lubrication points, referred to as the 4-Bar Link Assembly.

- Lube Point 1 - Rod end of Tool Tilt Link, both sides of rod end pivot.
- Lube Point 2 - Tool Tilt Rod End pivot.
- Lube Point 3 - Attachment Pivot end of Tool Tilt link.
- Lube Point 4 - Central "Dog Bone" link pivot.
- Lube Point 5 - Cutting attachment pivot.



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Boom
Box construction with 3 in (76 mm) minimum diameter pins and setback boom geometry. Main to stick knuckle joint 3 1/2 in (88.9 mm) pin

Machine Control System
Engine management
- Electronic interface between machine function and engine
- Anti-engine stall independent for track and implement systems

Operator push button interface
- Function speed
- Function smoothness
- Separate settings for three operators plus factory default
- Multiple languages

System self-diagnostics
Troubleshooting features
- On board multi-meter
- Error logging event memory

Machine protection
- Over and under temperature conditions results in reduced machine output
- System records all at-limit events

Attachments and Options
Standard and extra equipment are market dependent and vary between countries. The specification describes possible equipment which is either standard or optional. Stated weights are based on standard equipment.
- Track shoe widths
- 4 boom options
- Fire Suppression System
- 1 1/4 in (32 mm) front window
- Engine and cab accessories
- Hydraulic pump, valve and line

Specifications and design are subject to change without notice.

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Hydraulic Tank Removal

Remark

Tag and mark all of the hydraulic hoses, wire connectors, and fittings before removal to ensure correct installation. Cap and plug all the fittings and hoses after removal to prevent contaminants from entering the hydraulic system.

1. If equipped with a vacuum pump, remove the pump cover from the top of the tank.
2. Remove the hydraulic filter cover from the top of the tank.
3. Remove all the hoses and fittings from the hydraulic filters on top of the tank.


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CM005235

4. Disconnect the oil level sensor connector (1) from the back of the tank.

Remark

Follow the wires down to the connector.



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5. Remove all the hydraulic hoses from the bottom of the tank. The fittings are easier to remove after the tank is removed from the machine.


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Truck Driver's Starting, Driving and Boom Operation Instructions

Remark

The Truck Driver's Starting, Driving and Boom Operation Instructions sheet (two pages) (part number 4A1-00-10080) is a laminated document and is clipped to the cab window.

Remark

The following information is for starting, driving, and moving the boom and attachment tool to position the machine during shipping.

Read the Operation Manual before operating this machine for any other purpose.

1. Open the engine compartment door.
2. Turn the MASTER ELECTRICAL DISCONNECT switch to the ON position, and close and latch the door.

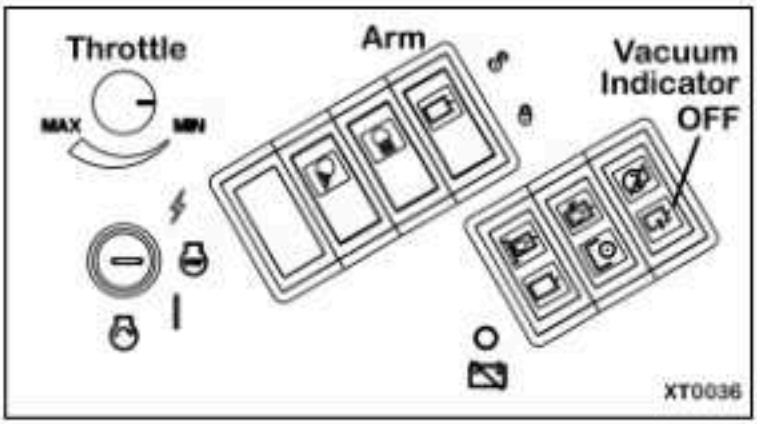


3. Open the cab door and sit in the operator's seat.
4. Close the cab door.

Remark

The cab door must be closed to operate the machine. If the door was opened completely, you must pull up on the T-handle located on the bottom hinge of the door to close the door.

5. Fasten the seat belt.
6. Turn the engine Throttle to MIN. The engine throttle is located on the dash panel.
7. Arm system switch must be in the lock position. Hydraulic tank vacuum switch must be in the off position (Vacuum Indicator OFF). Otherwise the starter will not crank.





8. Turn the ignition switch to the START position to start the engine. Then let the switch return to the RUN position after the engine starts. The ignition switch is located on the dash panel.

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