CEAM029102

Operation & Maintenance Manual

XT430-2
XT430L-2
XT450L-2

CRAWLER FELLER BUNCHER/HARVESTER

SERIAL NUMBERS XT430-2 A1035
XT430L-2 A2039 and up
XT450L-2 A4053, A4057

ENGINE QSC 8.3

March 2016

KOMATSU®

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50 Hour Interval Maintenance Procedures

⚠ WARNING

Make sure to do all Daily Maintenance and 10 Hour Interval procedures before beginning the 50 Hour Interval Maintenance procedures.

Hydraulic Door Safety Interlock

⚠ WARNING

- **DO NOT bypass, remove, or tamper with the door safety interrupt system.**
- **Serious personal injury or death could occur while operating the machine with the cab door open or with a faulty door safety interrupt system.**

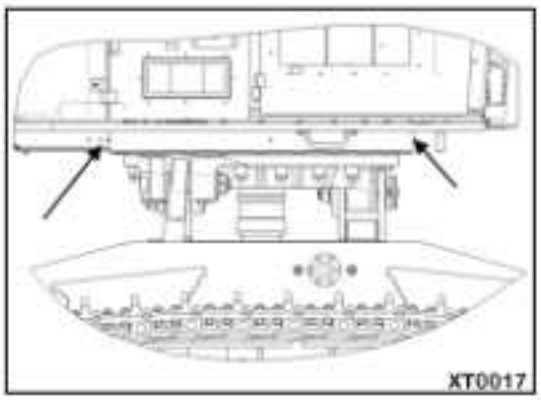
A normally open electrical switch is located at the base of the cab door. This switch is part of the door safety interrupt system used to monitor the cab door. The IQAN control system will only allow operation of the machine when the cab door is closed.

Test the door safety interrupt system using the following procedures:

1. Sit in the operator seat and fasten the seat belt.
2. Make sure the cab door is fully open.
3. Start the machine and try arming the IQAN control system. The "System Armed" light should not illuminate.
4. If the "System Armed" light illuminates with the cab door open, STOP. Have the door safety interrupt system repaired before operating the machine.
5. Slowly operate one of the hand controls. The controls should not respond with the cab door open.
6. If the controls respond with the cab door open, STOP. Have the door safety interrupt system repaired before operating the machine.
7. Close the cab door, but do not arm the IQAN control system. The "System Armed" light should not be illuminated.
8. If the "System Armed" light illuminates by only closing the cab door, STOP. Have the door safety interrupt system repaired before operating the machine.

Lubricate Swing Circle

1. Lower the work equipment to the ground.
2. Using a grease pump, pump in grease through the grease fittings shown by arrows. (2 Places).
3. After greasing, wipe off any old grease that was pushed out.



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500 Hour Interval Maintenance Procedures

Remark

Make sure to do all Daily, 50, 100, and 250 Hour Interval Maintenance procedures before beginning the 500 Hour Interval Maintenance procedures.

Check Engine Coolant Antifreeze Concentration

⚠ WARNING

- **At operating temperature, the radiator and hydraulic tank are HOT and under pressure. Allow these components to cool to the touch before servicing.**
- **Loosen radiator cap slowly to release pressure.**
- **Release pressure from hydraulic tank at the turbo boost release valve before opening the fill spout.**

Remark

Do not overfill the radiator. The coolant volume will expand as the engine reaches operating temperature.

Use Komatsu Supercoolant (AF-NAC).

- The coolant has the important function of preventing corrosion as well as preventing freezing.
  Even in the areas where freezing is not an issue, the use of antifreeze coolant is essential.
  Komatsu machines are supplied with Komatsu Supercoolant (AF-NAC). Komatsu Supercoolant (AF-NAC) has excellent anticorrosion, antifreeze and cooling properties and can be used continuously for 2 years or 4000 hours.
  Komatsu Supercoolant (AF-NAC) is strongly recommended wherever available.
  When using Komatsu Supercoolant (AF-NAC), there is no need to use a corrosion resistor. If machine is not equipped with a corrosion resistor, Komatsu supercoolant must be used.
- When diluting the antifreeze coolant, use distilled water or tap water (soft water).
  Natural water, such as a river water or well water (hard water), contains large amounts of minerals (calcium, magnesium, etc.), and this makes it easier for scale to form inside the engine or radiator. Once scale is deposited inside the engine or radiator, it is extremely difficult to remove. It also causes overheating due to poor heat exchange, so when you dilute the coolant, we recommend that you use water with an overall hardness of less than 100 PPM.
- When using antifreeze, always observe the precautions given.
- Antifreeze coolant is flammable, so be sure to keep it away from flame.
- The ratio of Supercoolant (AF-NAC) to water differs according to the ambient temperature.
  Supercoolant (AF-NAC) may be supplied in premix, in this case, never add diluting water.
- If the engine overheats, wait for the engine to cool before adding coolant.
- If the coolant level is low, it will cause overheating, and will also cause problems with corrosion due to air entering the coolant.

The radiator fill spout (1) is located under an access cover on the top engine compartment panel. Remove radiator cap slowly to allow any trapped pressure to escape.



Check the engine coolant antifreeze concentration at the fill spout. The engine coolant should provide engine protection to -34° F (-37° C) year round.

1. If required, modify coolant antifreeze concentration by adding an appropriate amount of Supercoolant (AF-NAC).

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XT430-2, XT430L-2 Undercarriage

TYPE	Komatsu
FINAL DRIVES	Komatsu
TRACK MOTORS	Komatsu
TRACTIVE EFFORT	28,010 kg (61,775 lb)
EFFORT-TO-WEIGHT RATIO	XT430-2: 1.01:1 XT430L-2: 1.03:1
TRAVEL SPEED	0 TO 3.0 mph

XT450L-2 Undercarriage

TYPE	Komatsu
FINAL DRIVES	Komatsu
TRACK MOTORS	Komatsu
TRACTIVE EFFORT	33,710 kg (74,315 lb)
EFFORT-TO-WEIGHT RATIO	1.07:1
TRAVEL SPEED	0 to 3.3 mph

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N/I. CAUTION - Contains R-134a (Decal supplied with Air Conditioner)
Avoid breathing A/C refrigerant and lubricant vapor or mist.
Exposure may irritate eyes, nose & throat.
TO REMOVE R-134a from A/C System, use service equipment certified to meet the requirements of S.A.E.J2210.
If accidental system discharge occurs, ventilate work area before resuming service.
Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.



KPXT12

26. Pictogram - Emergency Exit this way (09844-00050)

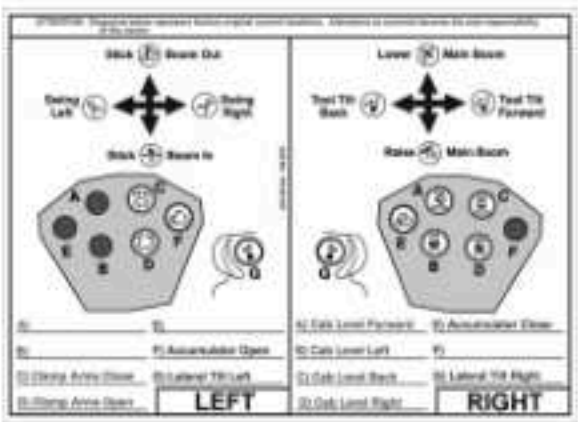

09844-00050

27. EMERGENCY EXIT KNOB REMOVAL WRENCH (4A1-00-10480)

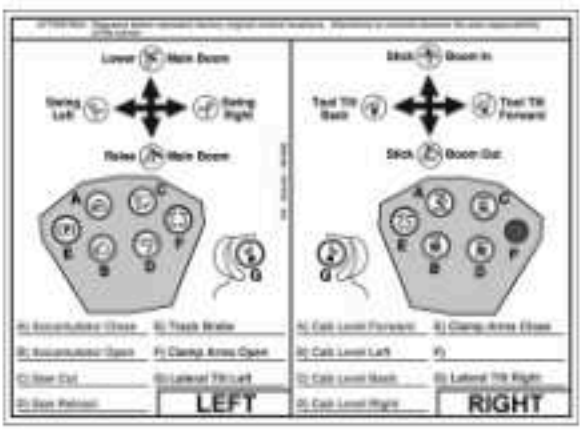


28. OPERATOR CONTROLS

A. SAE US DISC SAW



B. SAE BAR SAW



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Mounting and Dismounting Precautions

Handrails and Steps

To prevent personal injury caused by slipping or falling off the machine, do as follows.

1. Use tread plates and handles provided with at least three points of support (two hands and one foot or two feet and one hand) when mounting and dismounting the machine. Do not climb, mount or dismount machine in any other fashion.



2. The cab step is movable, so do not grab hold of it as a handrail.
3. Always face the machine and maintain three-point contact (both feet and one hand, or both hands and one foot) with the handrails and steps including the track shoe to ensure that you support yourself.
4. NEVER attempt to mount or dismount a moving machine.
5. NEVER jump from the machine.



6. Do not use the controls or operator's seat armrest as a hand hold when mounting or dismounting the machine.

⚠ WARNING

Make sure the folding step is lifted up into cab when the door is closed.
Not lifting the step into the cab may damage the folding step.



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