CEBM025402

Shop Manual

KOMATSU®

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

CRAWLER FELLER BUNCHER

SERIAL NUMBERS **XT430-2 A1001 and up**
XT430L-2 A2001 and up
XT445L-2 A3001 and up
XT450L-2 A4001 and up

ENGINE **QSC 8.3 Tier 3**

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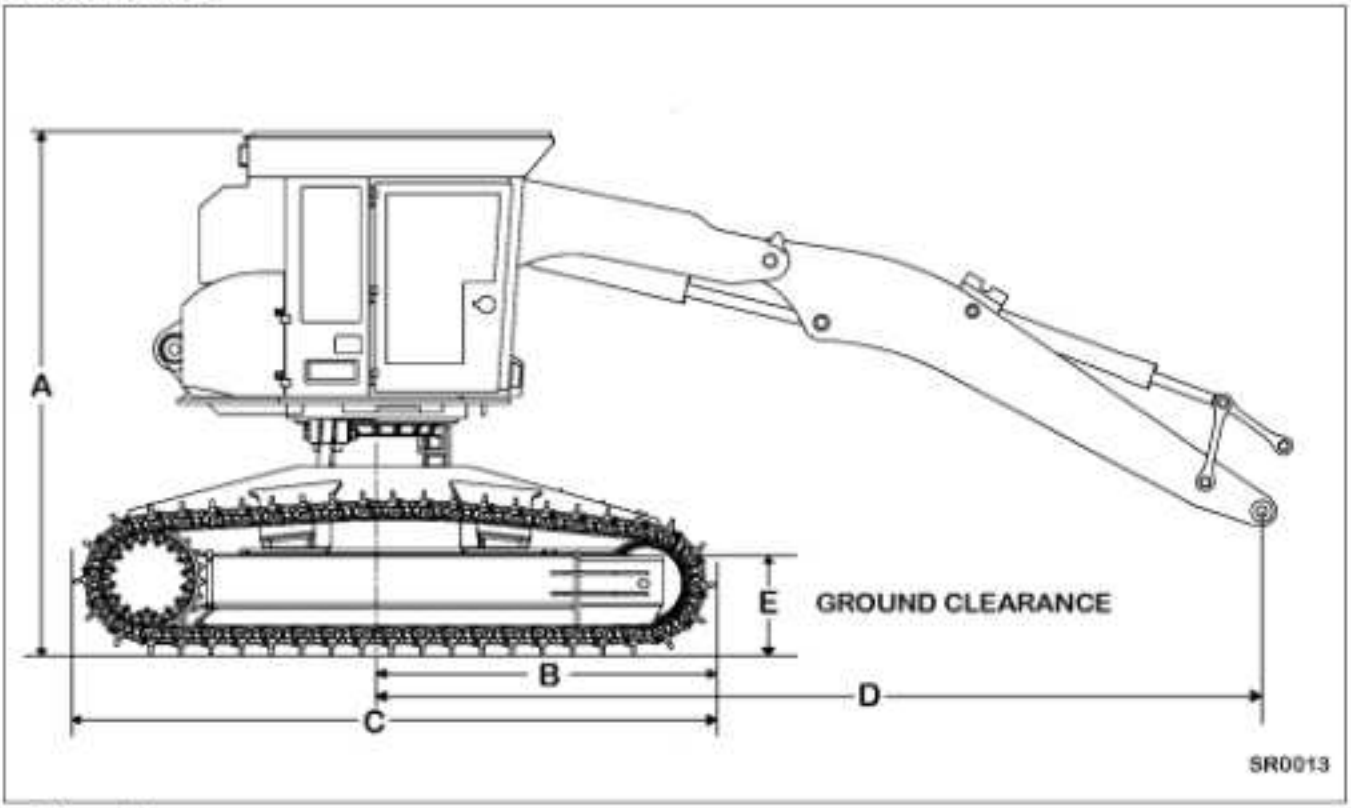
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SPECIFICATIONS

Dimensions



Dimensions

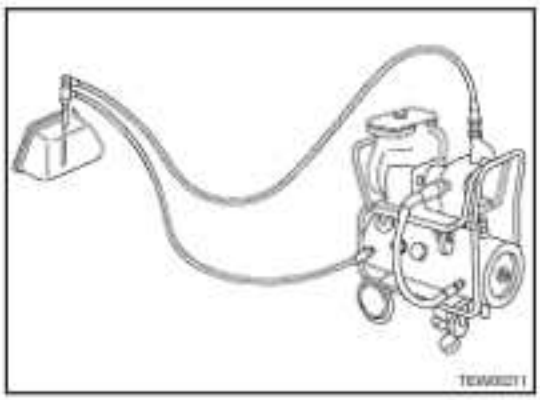
XT430-2			XT430L-2			XT445L-2			XT450L-2		
A	3.6 m	11 ft 9.7 in	A	3.78 m	12 ft 4.8 in	A	3.85 m	12 ft 7.6 in	A	3.88m	12 ft 8.75 in
B	2.53 m	8 ft 4.5 in	B	2.43 m	7 ft 11.7 in	B	2.54 m	8 ft 4 in	B	2.54 m	8 ft 4 in
C	4.92 m	16 ft 1.7 in	C	4.59 m	15 ft 0.7 in	C	4.77 m	15 ft 8.8 in	C	4.77 m	15 ft 8.8 in
D	7.00 m	22 ft 11.6 in	D	7.00 m	22 ft 11.6 in	D	7.00 m	22 ft 11.6 in	D	7.00 m	22 ft 11.6 in
E	0.73 m	28.7 in	E	0.73 m	28.7 in	E	0.81 m	31.9 in	E	0.81 m	31.9 in

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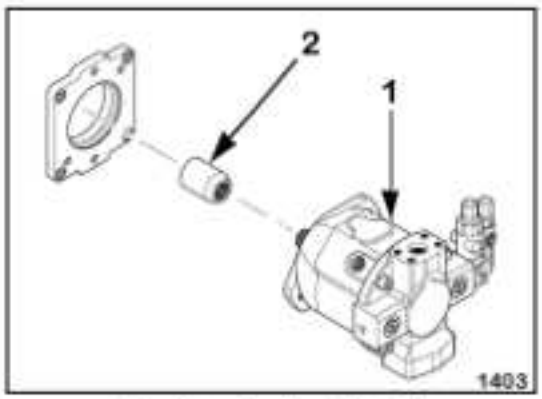
6. Flushing operations.
After disassembling and assembling the equipment, or changing the oil, use flushing oil to remove the contaminants, sludge, and old oil from the hydraulic circuit. Normally, flushing is performed twice: primary flushing is performed with flushing oil, and secondary flushing is performed with the specified hydraulic oil.



7. Cleaning operations.
After repairing the hydraulic equipment (pump, control valve, etc.) or when running the machine, carry out oil cleaning to remove the sludge or contaminants in the hydraulic oil circuit. The oil cleaning equipment is used to remove the ultra fine (about 3 microns) particles that the filter built in the hydraulic equipment cannot remove, so it is an extremely effective device.



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PROBLEM	PROBABLE CAUSE	ACTION
2. No stand-by pressure, no flow.	a. Implement pump thru drive coupling failure.	 Thru Drive Coupling (Typical) • Remove disc saw pump (1) and check for damage to the thru drive coupling (2) or disc saw pump input shaft splines. • Replace thru drive coupling or pump if required.
	b. Worn disc saw pump. ***Remark*** *If an internal pump/motor failure is suspected, always check the component's case drain line and the case drain return filter for metal particle contamination first.*	• Check the case drain filter for metal flakes and perform "Disc Saw Pump Case Drain Flow" test. • If metal flakes are found in the case drain filter or case drain flow is excessive, the disc saw pump is worn or failed. • Replace the disc saw pump.
	c. Disc saw pump with incorrect rotation installed.	• Check the serial number tag on the disc saw pump. Rotation should be CCW. • If rotation is CW, install pump with correct rotation.

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Removal and Disassembly

Remark

Tag and mark all of the hydraulic hoses, wire connectors, and fittings before removal to ensure correct installation.

Remark

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.



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

Remark

Follow the wires down to the connector.



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.

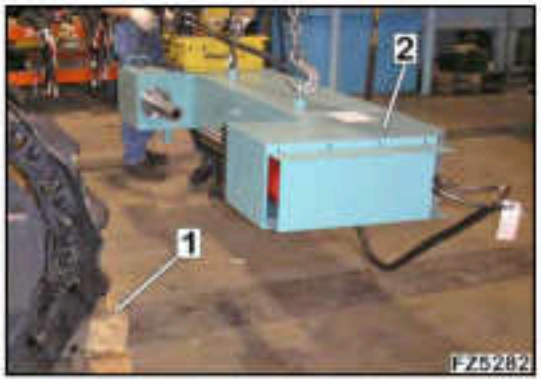


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3. Follow the "Decreasing Track Tension" procedure and completely remove the tension from the track assembly.

4. Block the track up with wood blocks to keep the tension off the master pin before removing the pin (1).

5. Attach a pin inserter to a suitable lifting device (2).



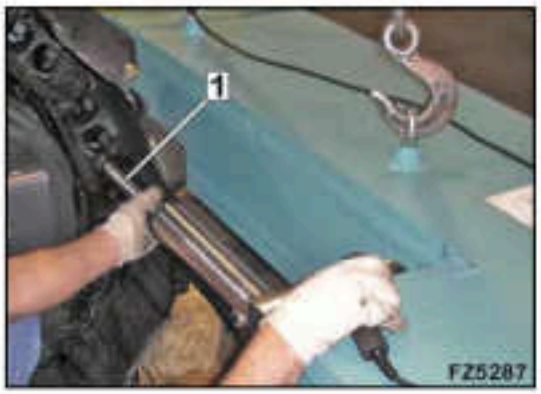
6. Line up the pin inserter to the pin.



7. Insert the pin inserter push pin (1) and press the pin out of the track.

8. Drive the machine in reverse until the track end is on top of the rear drive sprocket. Then use a suitable lifting device to remove the track end from the sprocket so it is on the ground.

9. Lay the new set of track that is replacing the track on the machine and pin the new track to the present track with the pin inserter.

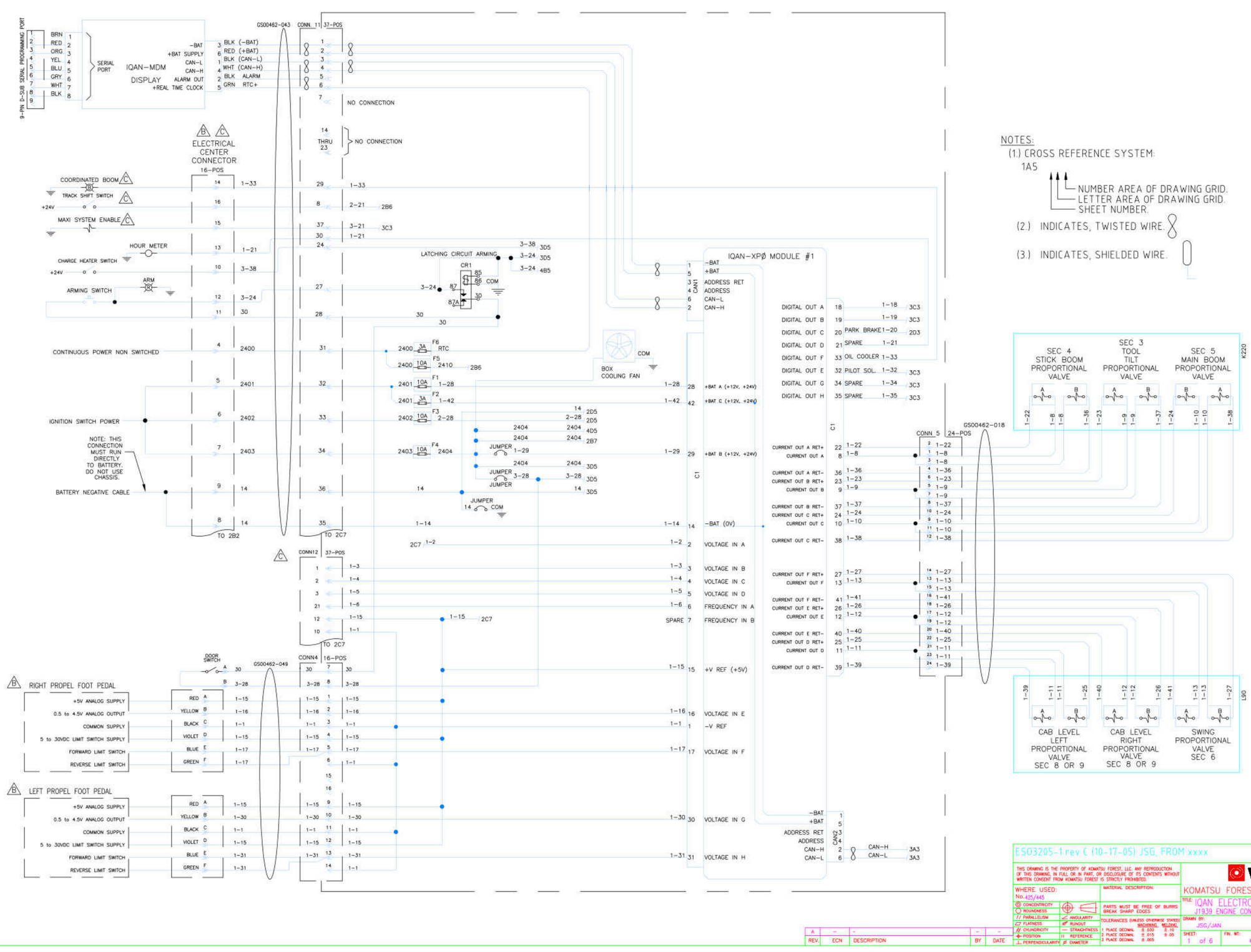


10. Drive the machine in reverse until the machine is on the new track and the master pin that joins the two sets of tracks is approximately three feet in front of track idler (1).

11. Remove the old track from the new track.



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