CX55B

Compact Hydraulic Excavator

from PIN PS02-00101 - and higher

OPERATOR'S MANUAL

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CASE CONSTRUCTION

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CHAPTER 2

SAFETY, DECALS, AND HAND SIGNALS

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CHAPTER 3

INSTRUMENTS AND CONTROLS

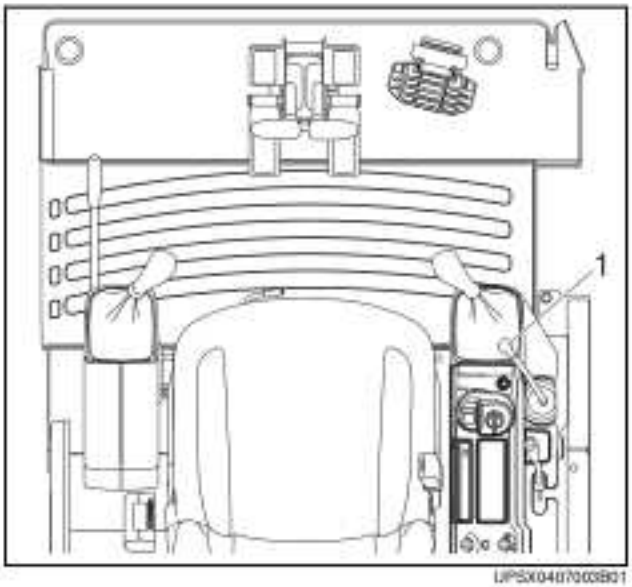
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ANGLE DOZER

The angle dozer blade can move up, down, or change its angle with a single control lever.



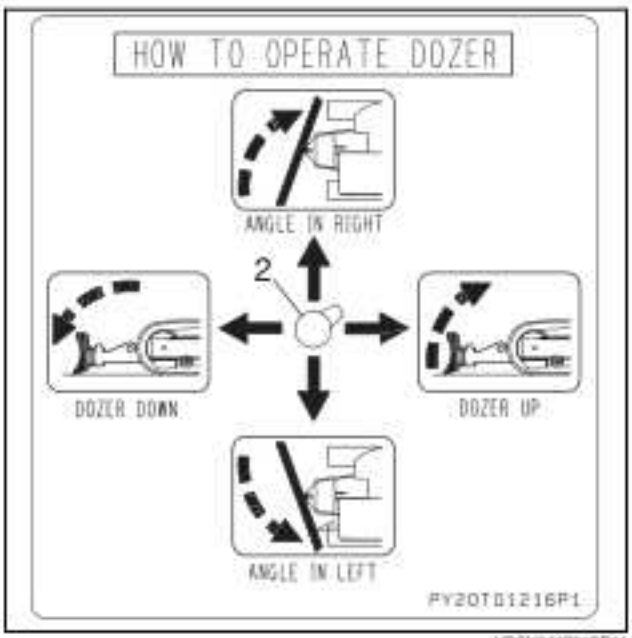
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1. DOZER CONTROL LEVER

DOZER CONTROL LEVER

The angle dozer control lever (1) is located next to the right control stand. This lever can be used to move the dozer blade up or down, or change its angle right or left.

Release the lever and it returns to NEUTRAL position. The dozer blade remains in position.



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LUBRICANT, FUEL AND COOLANT SPECIFICATIONS

The following chart provides information on the specifications of oil, grease, fuel, and coolant to be used in various climates and working conditions.

Component / System	Type	Capacity	Temperature Range −22° −4° 14° 32° 50° 68° 86° 104°F −30° −20° −10° 0° 10° 20° 30° 40°C	Specifications
Hydraulic tank	Hydraulic oil	34 liters {9.0 gal} 61 liters {16.1 gal} {hydraulic system}	* ISO VG 46 * ISO VG 32	Genuine parts Long life hydraulic oil KW5046 (20 L) P/No. KAP YN01T01056D3 Genuine parts Long life hydraulic oil KW5032S (20 L) P/No. KAP YN01T01056D1
Engine *1	Engine oil	H level : 7.4 liters {2.0 gal} L level : 3.4 liters {0.9 gal}	SAE 40 SAE 30 SAE 10W * SAE 10W-30 *	A.P.I. classification for "service CD"
Fuel tank	Diesel fuel	75 liters {19.8 gal}	ASTM D-975 No.2	ASTM D-975 Grade 2-D
Radiator *1	Antifreeze /Coolant	2.6 liters{0.69 gal} 6.0 liters{1.59 gal} [total system]	30% LLC mixture * 50% LLC mixture	L.L.C specification *2
Travel motor	Gear oil	0.9 liters{0.24gal} X 2	EXTREME GEAR OIL SAE #90	Genuine parts A.P.I classification for "service GL-4" P/No. KAPSP90020
Idlers		75 cc{4.6cu.in} X 2		
Lower rollers	Engine oil	110 cc{6.7cu.in} X 10	SAE 30	A.P.I. classification for "service CD"
Upper rollers		20 cc{1.2cu.in} X 2		
Boom, Arm, Linkage, /attachment	Grease	12-places		Genuine parts Extreme pressure multipurpose grease No.2*3
Dozer blade Cylinder		6-places		
Boom Swing Cylinder pin		2-places		
Slewing bearing		1-place		
Slewing gear		3.6 kg		
Belt/Track tension adjust see adjustment procedure in section		2-places		
Control levers & Pedals		As needed disassembly is required		

NOTE:

**1 Machines are shipped from factory with * marked oil.*

**2 LLC means Long Life Coolant*

**3 Cartridge part number KAPG0420D1 (400 g x 20) Pail can part number KAPG1601D1*

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500 HOUR MAINTENANCE

Perform the following procedures after 500 hours of operation along with the Daily, 50 Hour, and 250 Hour Maintenance procedures.

⚠ WARNING ⚠

Read, understand and follow all safety precautions contained in this manual before performing any inspection or maintenance procedures on this machine, its system or components. Failure to comply could result in death or serious injury. M1087

⚠ WARNING ⚠

To help prevent personal injuries during operation and maintenance, use safety shoes, a hard hat, safety glasses or goggles and good fitting clothing. Failure to comply could result in death or serious injury. M1108

REPLACE THE FUEL FILTER

The fuel filter is not serviceable. Replace it with a new one.

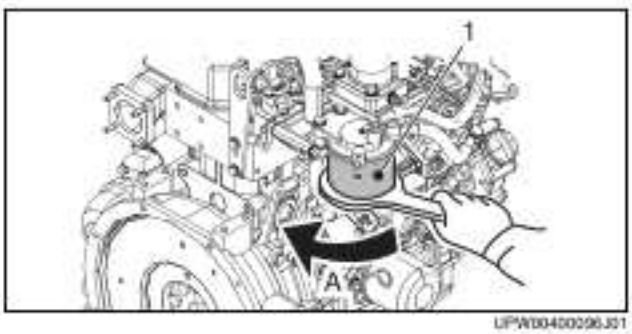
WARNING: *When handling fuel, make sure there are no open flames or other fire hazards near the engine. Wipe off any spilled fuel completely. Spilled fuel could ignite and cause a fire.*

WARNING: *Touching hot surfaces could cause burns. The engine and components will be hot after the machine has been running. Allow the engine and components to cool before servicing the machine. Failure to comply could result in death or serious injury.* M1333



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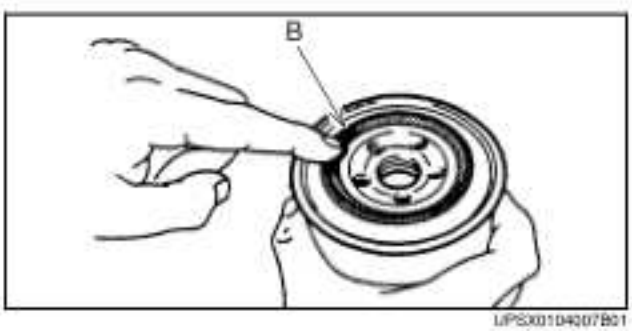
1. Stop the engine, open the engine door and remove the lower cover.
2. Place the filter wrench on the filter cartridge (1) and turn the wrench counterclockwise (A) to remove it.
3. Wipe off any dirt on the seal face (B) of the filter base to avoid contamination.



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1. FILTER CARTRIDGE

4. Apply a thin coat of grease to the seal of the new oil filter. Install and tighten by hand, turning 2/3 of a turn after the seal contacts the engine.
5. Start and run the engine at idle for five minutes to check for leaks.



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B SEAL FACE

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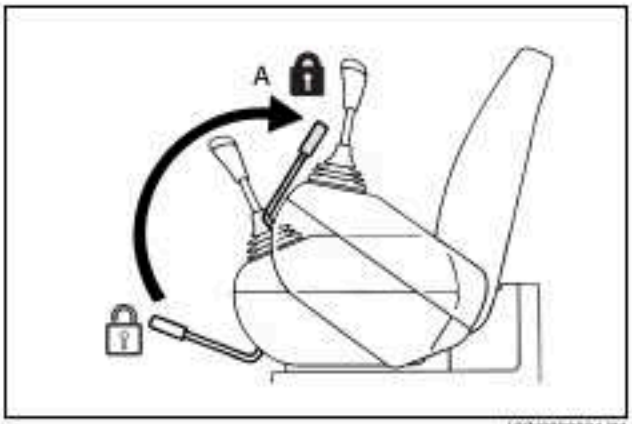
WINDOWS

Opening and Closing Upper Front Window

WARNING: *A falling window can cause injury to you or others. Always make sure to properly lock the front window in place to avoid injury. Failure to comply could result in death or serious injury.* **M1709**

WARNING: *When closing the upper front window, keep in mind that its weight will cause it to drop down very quickly. Hold it securely with both hands. When storing the front window, pull the safety lock lever up to the LOCKED position and stop the engine.*

1. Park the machine on level ground, put the bucket on the ground and pull the safety lock lever UP to the LOCKED position. Stop the engine.
2. To unlock the upper front window, push down the lock levers (1) located on the right and left sides of the window.
3. Hold the right and left handles of the front window and slide the front window overhead all the say to the back end of the ceiling until the window is locked.
4. To close the upper front window, follow the procedure described in Steps 2 and 3 in reverse.



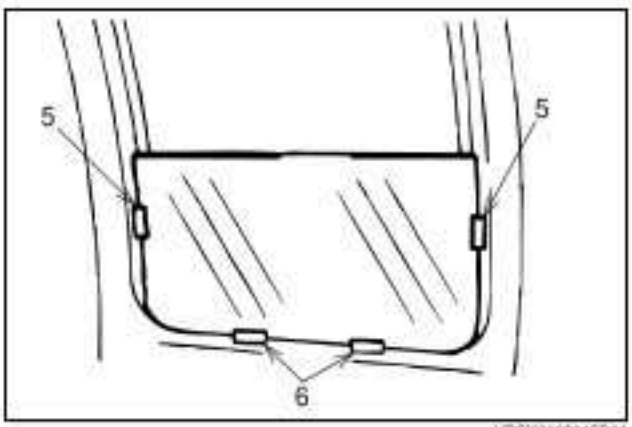
A. LOCKED POSITION



A. LOCKED POSITION

Removing and Storing Lower Front Window

1. After placing the upper front window in the ceiling, hold the lower front window and remove it from the frame.
2. Store the removed lower front window in the holder in the rear of the cab behind the operator's seat.
3. To store the window, insert the right and left sides of the glass into the holders (5) and support it with the holders (6) on the lower section of the window frame.



5. SIDE HOLDERS
6. LOWER HOLDERS

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SEAT BELT PRECAUTIONS



BC02N375 Figure 4

1. RIGHT HAND BELT STRAP
2. LATCH MECHANISM

1. Insert the metal end of the right-hand belt strap into the latch mechanism on the left-hand side of the seat.
2. To unlatch the seat belt, press the red button on the left-hand side latch mechanism.

⚠ WARNING ⚠

Before starting the engine make certain seat belts are securely fastened. The seat belt can help insure your safety if it is used and properly maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members.

M422A

EMERGENCY EXIT HAMMER



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An emergency exit hammer is provided on the right side of cab. In case of emergency, take the emergency hammer, break the cab glass, and escape from the cab. In addition, the emergency hammer is equipped with a cutter on the lever side to cut seat belt, etc.

FIRE EXTINGUISHER

It is recommended that you have a fire extinguisher on your machine. Contact your dealer for the type and location of a fire extinguisher on this machine.

FIRE PREVENTION

Remove all trash or debris from the machine each day. Check the engine area and exhaust system

SPECIFIC PRECAUTIONS TO THIS MACHINE

- Keep the load or tool as low as possible while moving the machine around the job site.
- Never smoke while refueling.
- Do not use tractive force of the machine for loading the bucket attachment nor to push or pull any objects.
- Do not use swinging force of the machine for operations.
- Do not perform "hammering" operation with the bucket.
- Do not use this machine for anything other than its intended purpose.
- DO NOT OPERATE bucket and arm cylinders to stroke end repeatedly.
- Do not over exert the machine's capacities.
- Never pull standing objects toward the machine.
- Do not use the long reach attachment for general construction work at any time.

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