CX17B
Tier 4
Hydraulic Excavator

Operator's Manual

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CASE
CONSTRUCTION

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CHAPTER 2

SAFETY, DECALS, AND HAND SIGNALS

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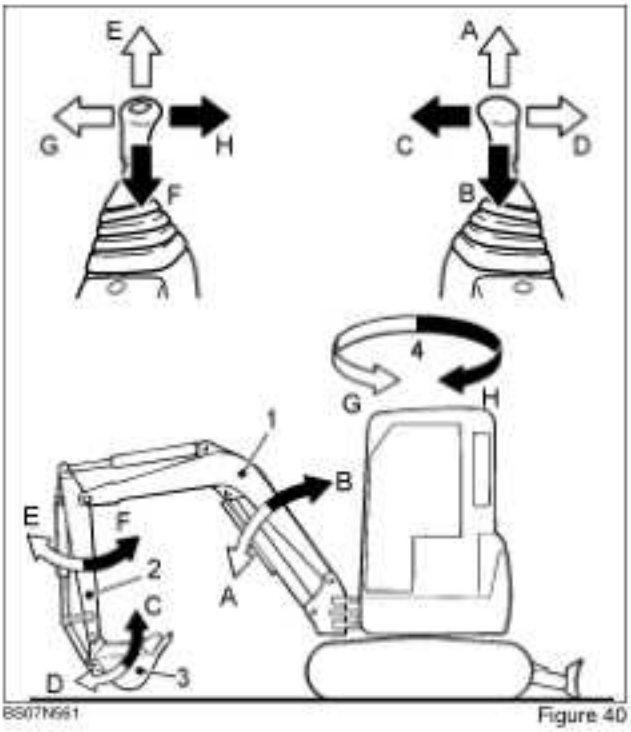
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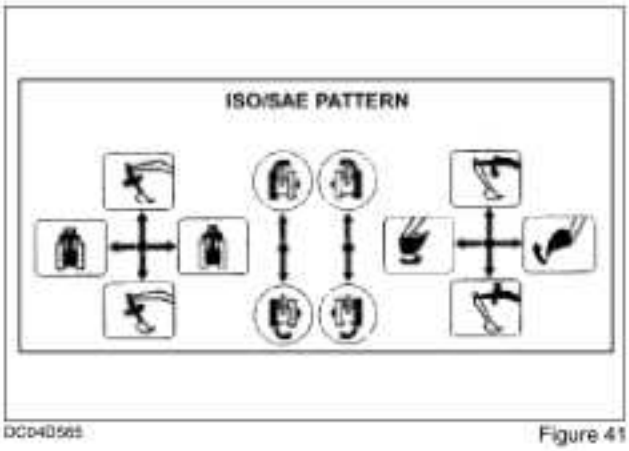
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OPERATING CONTROL LEVERS (ISO/SAE PATTERN)



BS07N661 Figure 40

LH CONTROL LEVER			RH CONTROL LEVER		
2	E	Arm Out	1	A	Boom Down
	F	Arm In		B	Boom Up
4	G	Swing Left	3	C	Bucket In
	H	Swing Right		D	Bucket Out



DC04D565 Figure 41

⚠ WARNING ⚠

If your machine is set to the operational BHL pattern control make sure to remove the ISO/SAE operation pattern control decal and use the decal supplied for the optional BHL pattern control. See Pattern Control Change (BHL pattern) for detailed information on how to operate the pattern control changer. Confirm that the operating pattern of the levers conforms to the machine lever decal. Unexpected movement could result if decal and lever pattern do not match. Failure to comply could result in death or serious injury

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FLUIDS AND FILTERS

REQUIRED FLUIDS/LUBRICANTS AND CAPACITIES

ENGINE

Type of Oil ---------- Engine Oil SAE 10W30

Capacity:

Engine Oil (H Level) -----3.5 liters (0.9 gal)

Engine Oil (L Level) -----2.2 liters (0.6 gal)

NOTICE: *See **ENGINE OIL LEVEL** in Chapter 6 for proper oil filling and/or checking engine oil level.*

HYDRAULIC

Type of Oil ---------- Hydraulic Oil AW 46

Capacity:

Hydraulic Tank ---------- 9 liters (2.4 gal)

Hydraulic System ----------15 liters (4.0 gal)

NOTICE: *See **HYDRAULIC OIL LEVEL** in Chapter 6 for proper filling and/or checking hydraulic oil level.*

TRAVEL MOTOR REDUCTION UNIT

Type of Oil ---------- SAE 90 GL4 Gear Oil

Capacity ----------330 cc (20.1 cu. in.) Each

NOTICE: *See **TRAVEL MOTORS REDUCTION UNIT OIL** in Chapter 6 for proper filling and/or checking oil level.*

IDLERS

Type of Oil ---------- SAE 90 GL4 Gear Oil

Capacity ---------- 30 cc (1.8 cu. in.) Each x 2

LOWER ROLLERS

Type of Oil ---------- SAE 30

Capacity ---------- 60 cc (3.7 cu. in.) Each x 6

OPERATING LEVER JOINT

Type of Oil ---------- EP Grease EP/2

Capacity ---------- As required in each joint

NOTICE: *See **CONTROL LEVER JOINT LUBRICATION** in chapter 6 for proper lubrications.*

UPPER ATTACHMENT PINS

Type of Oil ---------- EP Grease EP/2

Capacity ---------- As required in each pin

NOTICE: *See **ATTACHMENT LUBRICATION** in Chapter 6 for proper lubrications.*

SWING BEARING

Type of Oil ---------- EP Grease EP/2

Capacity --------- As required (1 place - swing 90° x 4)

NOTICE: *See **SWING BEARING LUBRICATION** in Chapter 6 for proper lubrication.*

TRACK TENSION ADJUSTMENT

Type of Oil ---------- EP Grease EP/2

Capacity ---------- As required (2 places)

NOTICE: *See **TRACK TENSION** in Chapter 6 for proper procedures in injecting grease.*

RADIATOR

Coolant ---------- Ethylene-glycol Coolant Solution

ENGINE COOLANT MIXTURE	
Expected Minimum Temp.	**Long Life Coolant**
-14.5°C (5.9°F)	30% mixed
-34°C (-29.2°F)	50% mixed

Capacity:

Radiator ----------1.8 liters (0.48 gal)

Cooling System ----------3.7 liters (1.0 gal)

NOTICE: *See **ENGINE COOLANT CHANGE** in Chapter 6 for proper coolant filling and/or coolant level check.*

FUEL TANK

Type of Fuel ---------- Diesel Fuel grade No. 2

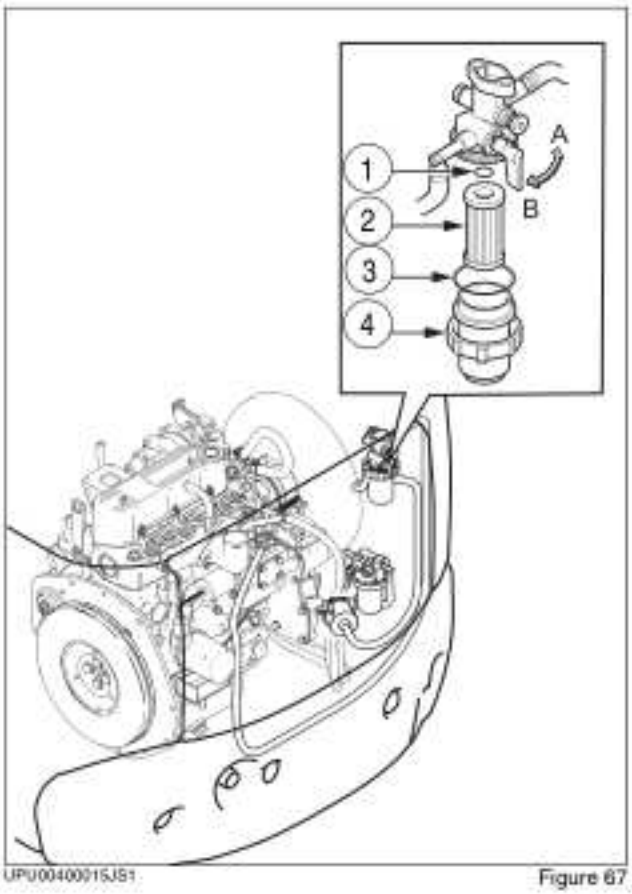
Capacity ----------Fuel Tank - 22 liters (5.8 gal)

NOTICE: *See FUEL LEVEL in Chapter 6 for proper filling and/or checking the fuel level.*

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REPLACING FUEL FILTER

The fuel filter should be replaced when the hourmeter registers 500 hours and every 500 hours thereafter. The fuel filter should not be reused. It must be replaced.



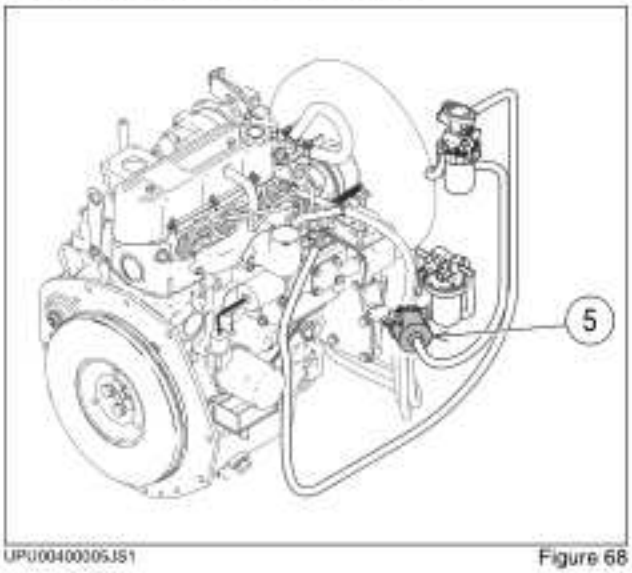
UPU0400015JS1 Figure 67

⚠ 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.

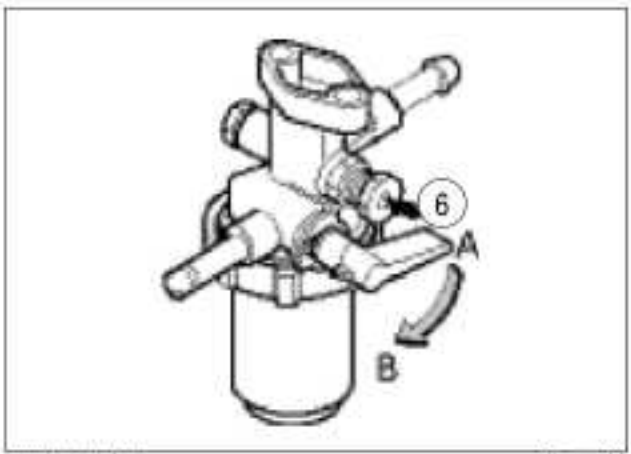
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1. Park the machine on a firm, level surface with attachments resting on the ground. Turn the engine off. Place the safety lock lever in the locked position. Keep all unauthorized personnel clear of the area.
2. Allow the machine to cool. Open the engine door. The fuel filter is located at the right rear of the machine.
3. Place a drip pan under the filter.
4. Place valve A in the closed position to stop fuel flow.
5. Remove ring (4). Remove filter body, O-ring (1) and O-ring (3).
6. Replace O-rings and cartridge element (2) with new components.
7. Reassemble fuel filter in reverse order, using care to make certain O-rings seat.
8. Secure filter body with ring (4).



UPU0400005JS1 Figure 68

9. Bleed air from the fuel system. Fuel is delivered by the solenoid pump (5).



UPUX1704011B01A Figure 69

10. Place the valve of the fuel filter in the OPEN (B) position.
11. Turn the ignition starter switch to the ON. Fuel pump will work after approximately 2 minutes and air will automatically be eliminated.
12. If the machine does not have an automatic fuel system and cup does not automatically fill, Push and hold button (4) until the filter cup is filled with fuel. Release button.
13. Start and run the engine at idle for 5 minutes to check for fuel leaks. Close the engine door.

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