EEAM022804

Operation & Maintenance Manual

D85EX-15
D85PX-15

BULLDOZER

SERIAL NUMBER
D85EX-15 - 10001 and up
D85PX-15 - 1001 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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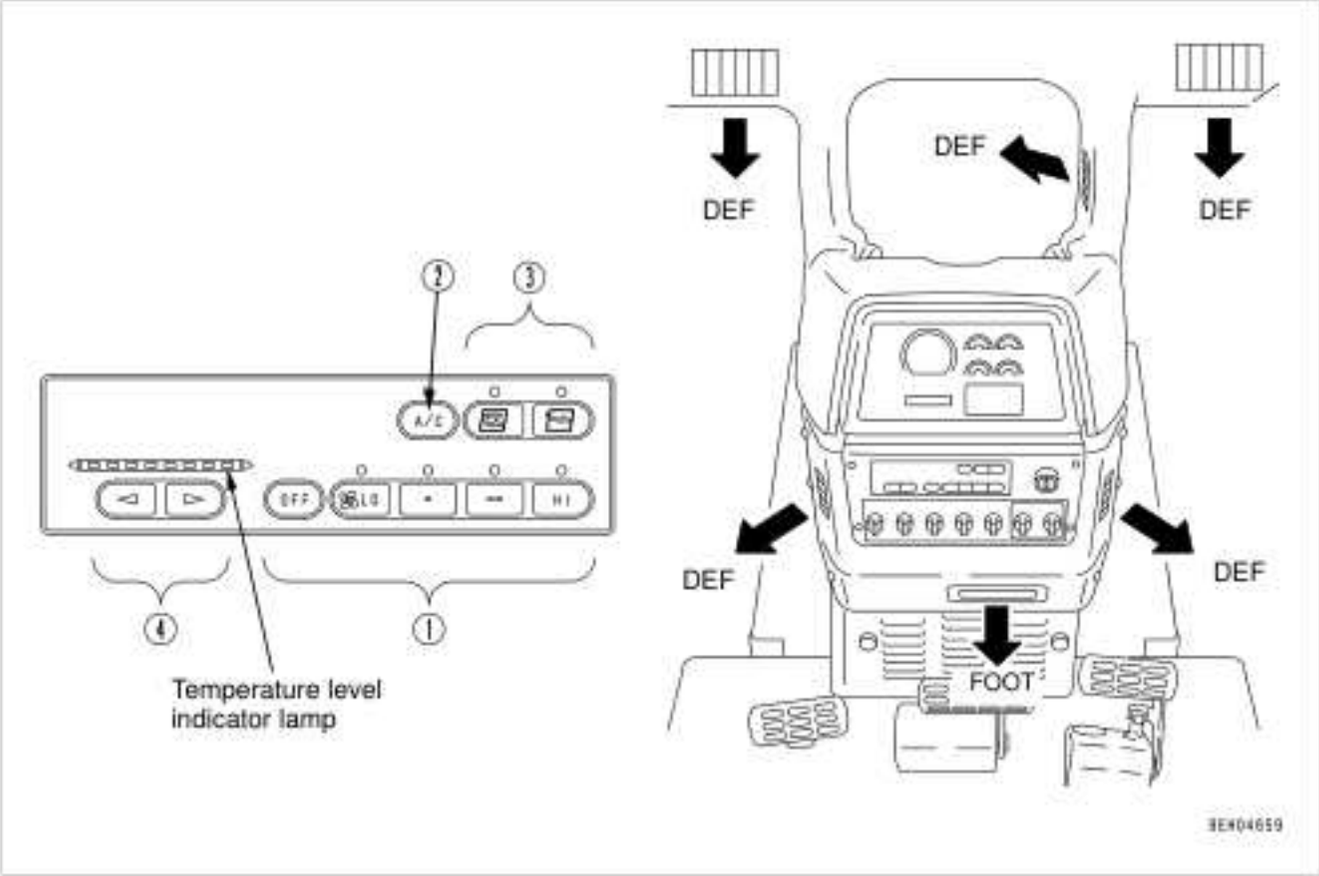
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AIR CONDITIONER

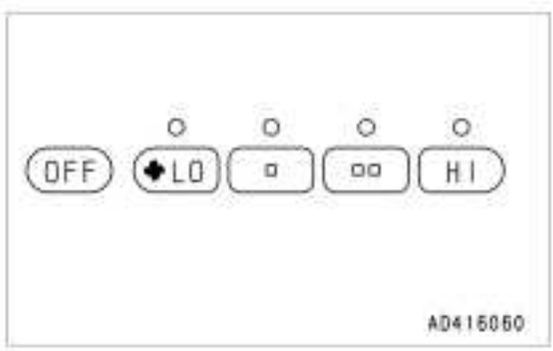
GENERAL LOCATIONS AND FUNCTION OF CONTROL PANEL



(1) Fan switch	(3) Fresh/recirc selector switch
(2) Air conditioner switch	(4) Temperature control switch

FAN SWITCH

This switch (1) can be used to adjust the air flow to four stages. It also acts as the main switch for the air conditioner. When the OFF switch is pressed, the fan stops.
When the switch is pressed, the indicator lamp above the switch lights up to display the air flow.



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USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE

PROPER SELECTION OF FUEL, COOLANT AND LUBRICANTS

Reservoir	Kind of fluid	AMBIENT TEMPERATURE		Type	CAPACITY	
		Min	Max		Specified	Refill
Engine oil pan	Engine oil	0°C -20°C -15°C -20°C	40°C 10°C 40°C 40°C	SAE 30 SAE 10W SAE 15W-40 SAE 10W-30	44 liter	38 liter
Power train oil pan (incl. transmission, torque converter and bevel gear casses)		0°C -20°C	40°C 10°C	SAE 30 SAE 10W	90 liter	60 liter
Final drive case (each)					26 liter	26 liter
Damper case		-20°C	40°C	SAE 30	1,5 liter	1,5 liter
Hydraulic system		-20°C	40°C	SAE 10W	(EX)120 liter (PX) 106 liter	67 liter
		-20°C	40°C	SAE 10W-30		
		-15°C	40°C	SAE 15W-40		
Fuel tank	Diesel fuel	-10°C -20°C	40°C -10°C	ASTM D975 No. 2 ASTM D975 No. 1 (for winter use)	490 liter	
Cooling sytem	Water	Add antifreeze			82 liter	
Grease fitting	Grease	-20°C	40°C	NLGI No. 2		

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EVERY 500 HOURS SERVICE

Maintenance for every 250 hours service should be carried out at the same time.

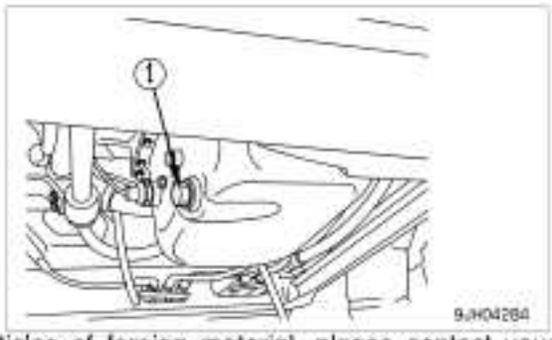
CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE AND BYPASS FILTER CARTRIDGE

(including engine by-pass filter cartridge)

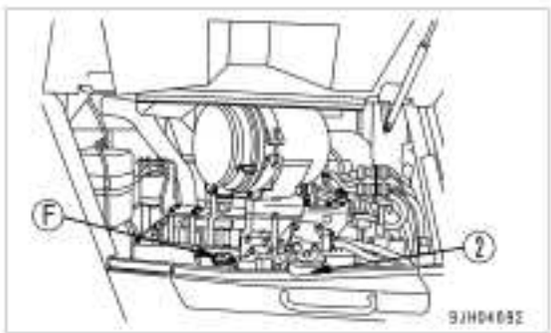
⚠ WARNING

The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.

- Refill capacity: 38 liters
- Prepare a socket wrench and filter wrench.



1. Remove the covers at the bottom left at the front of the machine and on the side face, and put a container directly underneath to catch the drained oil.
2. Remove drain plug (1) slowly to avoid getting oil on yourself, and drain the oil.
   Take care not to loosen drain valve (1) so much that the stopper pin in the valve is distorted.
   Tightening torque for drain plug (1): 68.6 ± 9.81 N·m
   (7 ± 1 kgf·m)
3. Check the drained oil, and if there are excessive metal particles of foreign material, please contact your Komatsu distributor.
4. Tighten drain valve (1).
5. Using the filter wrench, turn engine oil filter cartridge (2) to the left and remove it.
6. Clean the filter holder, fill the new filter cartridge with engine oil, coat the packing surface and thread with engine oil (or coat it thinly with grease), then install the filter cartridge.
7. When installing the filter cartridge, bring the packing surface into contact with the filter holder, then tighten a further 3/4 to1 turn.
8. After replacing the filter cartridge, add engine oil through oil filler port (F) until the oil level is between the H and L marks on the dipstick.
9. Run the engine at idling for a short time, then stop the engine, and check that the oil level is between the H and L marks on the dipstick. For details, see "CHECK OIL LEVEL IN ENGINE OIL PAN, ADD OIL (3-59)".



Even if the machine has not been operated for 500 hours, the oil and filter cartridge must be replaced when the machine has been operated for 12 months.
In the same way, even if the machine has not been operated for 12 months, the oil and filter cartridge must be replaced when the machine has been operated for 500 hours.

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