TEN00583-02

Operation & Maintenance Manual

BULLDOZER

D275AX-5E0

SERIAL NUMBERS 40001 and up

ecot3

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.

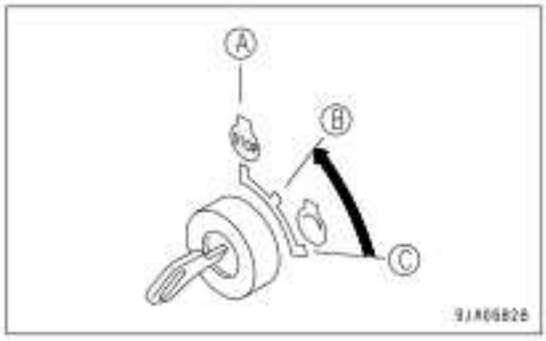
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6. When the engine starts, release the key in starting switch (2). The key will return automatically to ON position (B).



REMARK
Immediately after starting the engine, run at idle. While running the engine, release the decelerator pedal and do not operate the work equipment.
Guideline for idle time
- Cold weather: At least 15 seconds
- 1st start after changing engine oil or engine oil filter: 20 seconds

7. When the engine rotation stabilizes, return to Low idle (MIN) position of fuel control dial (1) and then carry out the warming-up operation.

REMARK
- Regardless of the ambient temperature, if the key in starting switch (2) is turned from OFF position to left, preheating pilot lamp (3) will light up and preheating will start. (Preheating continues while the starting switch is held at the left.)
  For the details of the preheating time, see the table in Step 5.
- While preheating is being carried out, the preheating pilot lamp (3) lights up to show that preheating is being carried out. After it lights up for 36 seconds, it flashes for 16 seconds and goes out. When it goes out, complete the preheating immediately.
- If the engine does not start with the above operation, wait for about 2 minutes, and repeat steps from Step 3. And 4.
- The relationship between the actuation time of the turbo protect function and the engine cooling water temperature is as follows.
  Even if the fuel control dial is operated within the time given below, the engine speed will not change.

Coolant temperature	Turbo protect time (sec.)
Above 10°C (50°F)	0
10 to -10°C (50 to 14°F)	Change 0 to 20
below -10°C (14°F)	20

- In cold weather, the turbo protect function is actuated, so the engine speed is kept at 1,000 rpm or below for several seconds. After that, it becomes the speed set by the position of the fuel control dial.

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EVERY 500 HOURS SERVICE

Maintenance for every 250 hours should be performed at the same time.

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

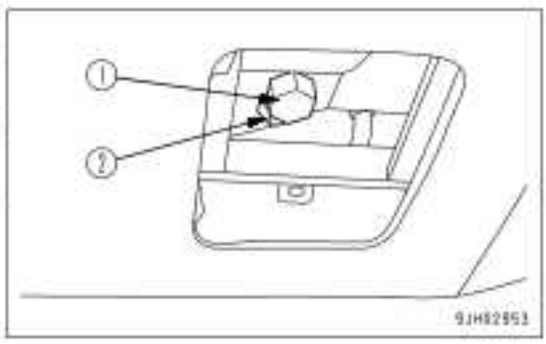
(including engine by-pass filter cartridge)

⚠ WARNING

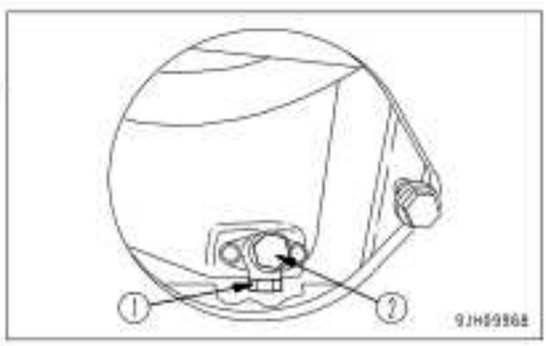
The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.

- Refill capacity: 50 liters (13.2 US gal)
- Prepare a socket wrench and filter wrench.

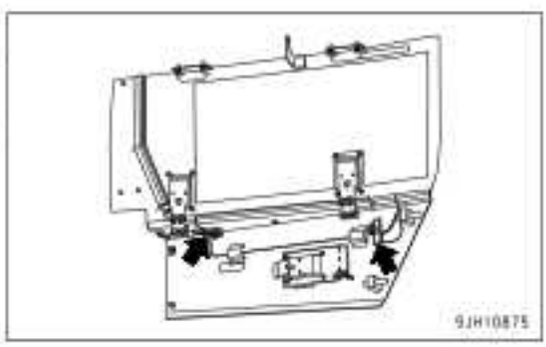
1. Remove the covers at the bottom left at the front of the machine and on the side face, and put a container directly underneath to catch the drained oil.
2. Remove drain plug (1) and loosen drain valve (2) slowly to avoid getting oil on yourself, and drain the oil.
   Take care not to loosen drain valve (2) so much that the stopper pin in the valve is distorted.
   Tightening torque for drain plug (1) : 68.6 ± 9.81 Nm (7 ± 1 kgm, 50.6 ± 7.2 lbft)
   Tightening torque for drain valve (2): 63.7 ± 14.7 Nm (6.5 ± 1.5 kgm, 47.0 ± 10.8 lbft)



3. Check the drained oil, if there is excessive metal particles or foreign material, contact your Komatsu distributor.
4. Tighten drain valve (2), then tighten plug (1).



5. Open up the left engine side cover, remove the two bolts on the inside and open the lower cover outward on the intermediate hinges.
6. Using the filter wrench, turn engine oil filter cartridge (3) to the left and remove it.

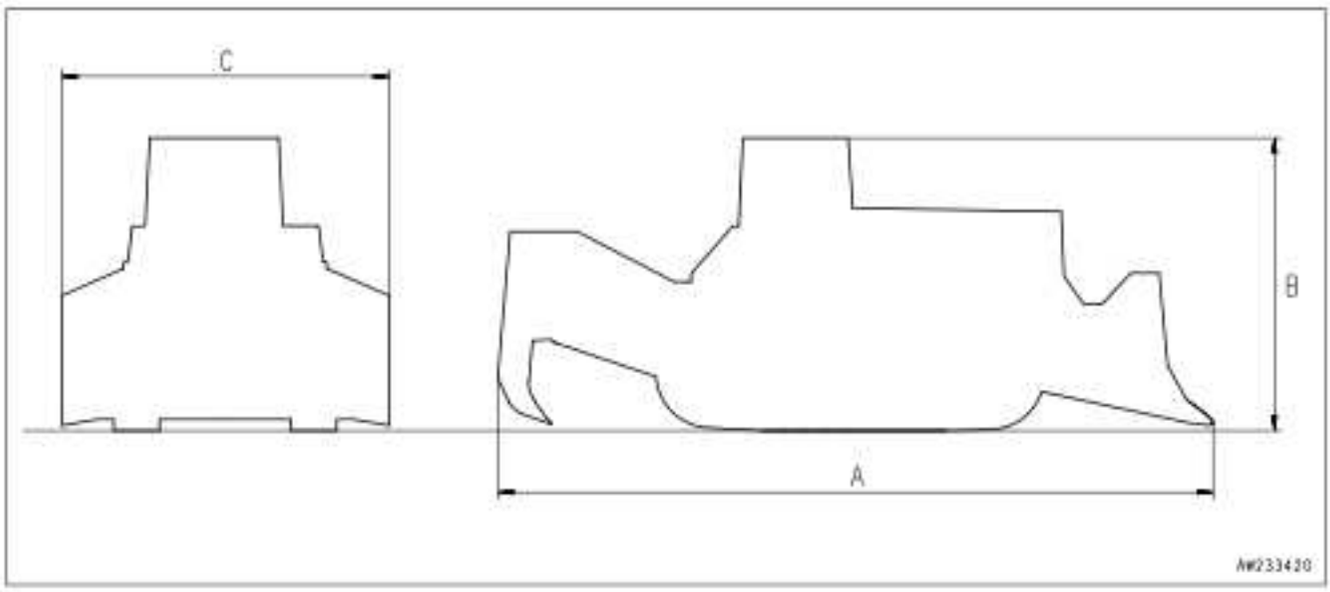


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SPECIFICATIONS

	Item		Unit	D275AX-5E0		
				Semi U-tiltdozer	U-tiltdozer	Reinforced sigmadozer
	Operating weight (without operator)		kg (lb)	50,710 (*1) (111.816)	50,775 (*2) (111.959)	51,400(*3) (113.337)
	Blade unit weight		kg (lb)	6,750 (14,884)	7,676 (16,926)	8,300 (18.302)
	Ripper unit weight		kg (lb)	4,462 (9,839) (Multi-shank)	3,600 (7,938) (Giant)	
	Name of engine		-	KOMATSU SAA6D140E-5 diesel engine		
	Engine rated horsepower		kW(HP)/rpm	335(450)/2,000		
A	Overall length		mm (ft in)	8,905 (29ft 3in)	9,595 (31ft 6in)	8,995 (29ft 6in)
B	Overall hight		mm (ft in)	4,015 (13ft 2in)		
C	Overall width		mm (ft in)	4,300 (14ft 1in)	4,615 (15ft 2in)	4,440 (14ft 7in)
	Travel speed (1st/2nd/3rd)	Forward	km/h (MPH)	3.8/6.7/11.2 (2.4/4.2/7.0)		
		Reverse	km/h (MPH)	4.9/8.7/14.9 (3.0/5.4/9.3)		

*1: Semi U-tiltdozer, multi-shank ripper, ROPS, cab, air conditioner
*2: U-tiltdozer, Giant ripper, ROPS, cab, air conditioner
*3: Reinforced sigmadozer, Giant ripper, ROPS, cab, air conditioner



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