TEN00479-01

# Operation & Maintenance Manual

BULLDOZER

## D275AX-5E0

SERIAL NUMBERS 30217 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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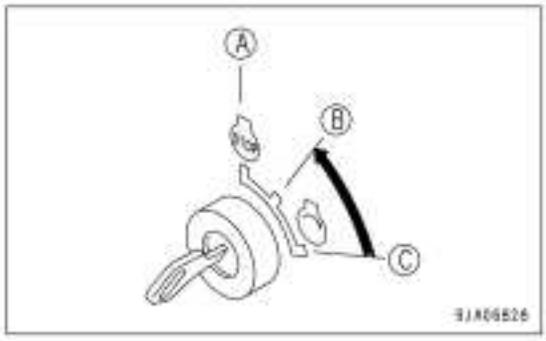
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6. When the engine starts, release the key in starting switch (2). The key will return automatically to the ON position (B).




**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 the 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 1000 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

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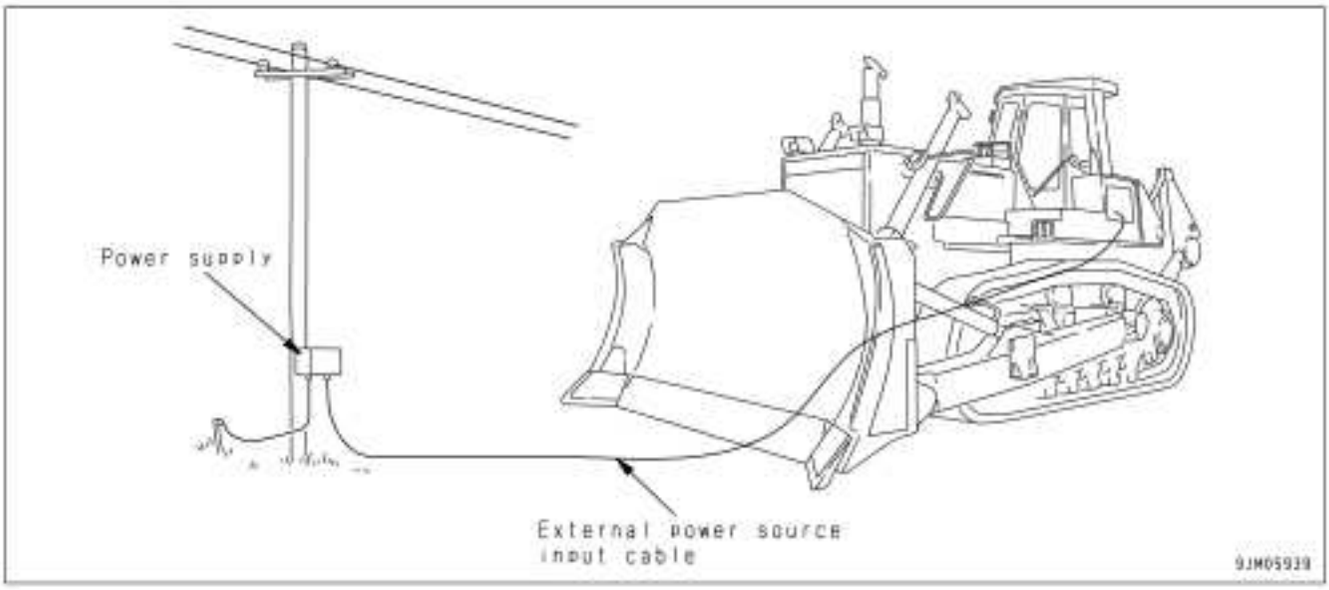
## EVERY 8000 HOURS SERVICE

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2. Several hours before starting the engine, supply the power to the preheater to warm the coolant and the oil in the engine oil pan and power train oil pan.
   1) Connect the power unit and the power input outlet on the machine side with an external power input cable. The input socket on the machine is inside the fender cover on the left side of the machine.




   2) Turn on electricity with a power switch (main switch) or a separate power on and off switch of the power unit, if it is provided.
      • Time required for warming up varies depending on the prevailing ambient temperature and the type of oil in use.

| Ambient temperature | Type of oil | Min. ON time for electricity |
|---|---|---|
| -30°C (-22°F) | SAE 10W | Min. 3 hours |
| -30°C (-22°F) | SAE #30 | Min. 4 hours |

- If the ambient temperature is expected to remain below -15°C (5°F), it is all right to turn on electricity right after stopping the engine on the preceding day and keep the engine warmed.
- The above table shows the standard values. If the climatic conditions at the worksite are of an extraordinary nature, it is preferable to probe values commensurate with such a specific locality and keep them as the standard for that worksite.

**NOTICE**
- **When carrying out the warming-up operation in ambient temperatures below 0°C, see "STARTING IN COLD WEATHER (PAGE 3-97)".**
- **If the ambient temperature is above 0°C, turn off the electricity. If the electricity is left on, the oil temperature will become too high and this will cause deterioration of the oil.**
- **If the ambient temperature is below - 20°C and the engine is stopped for more than 2 hours, use this preheater to maintain the temperature.**

3. When the preheating operation is finished, turn off the power switch, disconnect the cable, and screw a protective cap in the input receptacle on the machine.
4. Start the engine.

**NOTICE**
**Do not start the engine while the electricity is turned on. Always turn the power switch OFF before starting the engine. If the engine is started with the electricity still turned on, it will cause failure of the coolant heater.**



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