KOMATSU®

MX9

Operator's Manual



CE

Issue 1.0



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Safety

⚠ WARNING

Please read and make sure that you fully understand the precautions described in this manual and the safety labels on the machine. When operating or servicing the machine, always follow these precautions strictly.

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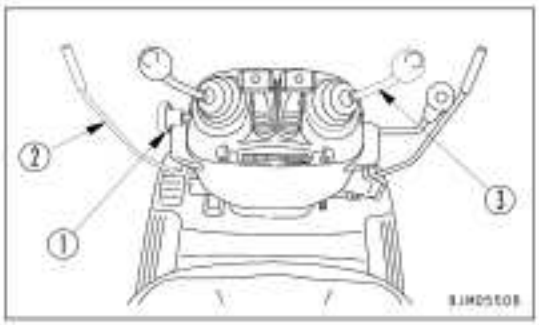
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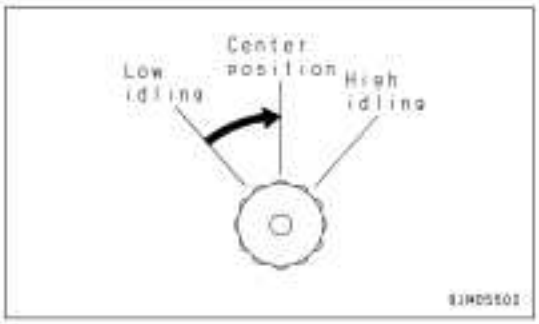
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After starting the engine, do not immediately start operations. First, carry out the following operations and checks:

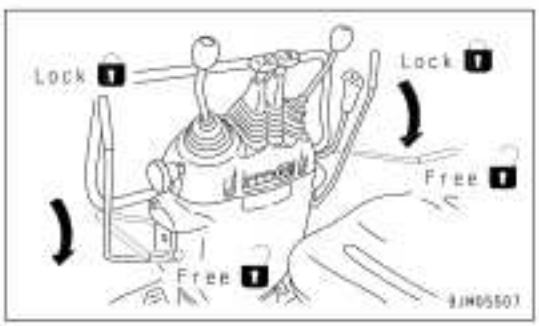


1. Pull fuel control lever (1) to the center position between LOW IDLE and HIGH IDLE and run the engine at medium speed for about 5 minutes with no load.



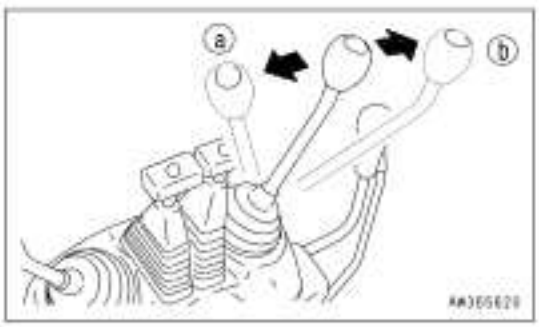
REMARK
When the ambient temperature is below 0°C (32°F), keep the fuel control lever close to the center position when carrying out the warm-up operation.

2. Set the safety lock lever (2) to the FREE position, and raise the bucket from the ground.



3. Operate right attachment control lever (3) slowly, pull the bucket into the stop position, and hold it there for 5 minutes.

- (a) DUMP
- (b) CURL



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REMARK

- When fuel sulphur content is less than 0.5%, change oil in the oil pan according to every periodic maintenance hours described in this manual.
- Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Change interval of oil in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

- When starting the engine with an ambient temperature of lower than 0°C (32°F), be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40, even though the ambient temperature goes up to 10°C (50°F) more or less during the day.
- Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.
- There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature range in the table.
- We recommend oil which has been specifically formulated and approved for use in engine and hydraulic attachment applications.
- Specified capacity: total amount of oil including oil for components and oil in hoses.
- Refill capacity: amount of oil needed to refill system during normal inspection and maintenance.

ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers
API: American Petroleum Institute

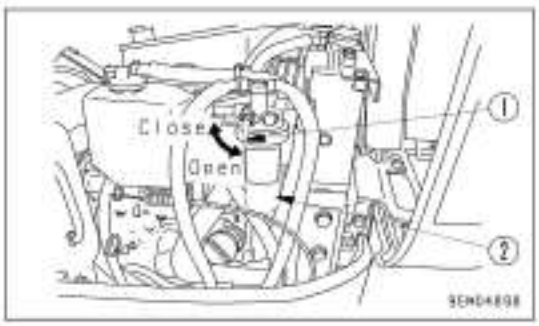
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Replace Fuel Filter Element

⚠ WARNING

- Engine is at high temperature immediately after the machine has been operated. Wait for engine to cool down before replacing the filter.
- Do not bring fire or sparks near the fuel.

1. Set a container to catch the fuel under the filter element and filter cup.
2. Close valve (1) at the top of the filter.
3. Using a filter wrench, turn filter cup (2) counterclockwise to remove it.
4. Clean the filter holder, fill the new filter and cup with fuel, coat the packing surface with engine oil, then install it to the filter holder.
5. When installing, screw in element until seal comes in contact with sealing surface, then tighten approx. 2/3 turn.



NOTICE
If the filter cup is over-tightened, the packing will be damaged and this will lead to leakage of fuel. If the filter cup is too loose, fuel will also leak from the packing, so always tighten to the correct amount.

6. After replacing the fuel filter element, bleed the air. For details of the procedure, see "Bleeding Air from Fuel System" on page 175.
7. After replacing the filter element and bleeding, start the engine and check that there is no leakage of fuel from the filter seal surface. If there is any leakage of fuel, check the tightening of the filter cup. If there is still leakage of fuel, follow Steps 1 and 2 to remove the filter cup, then check the packing surface for damage or foreign material. If any damage or foreign material is found in the packing, replace the packing with a new part, then repeat Steps 3 to 6.

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