KOMATSU®

MX27/MX35

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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Backhoe Controls and Operations

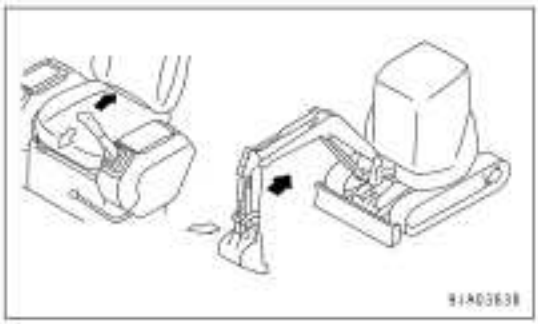
⚠ WARNING

For operation modes other than the standard one (ISO pattern), refer to "Attachments and Options" on page 211.

Use the control levers to operate the backhoe. Note that when the levers are released, they return to the HOLD position and the backhoe is held in that position.

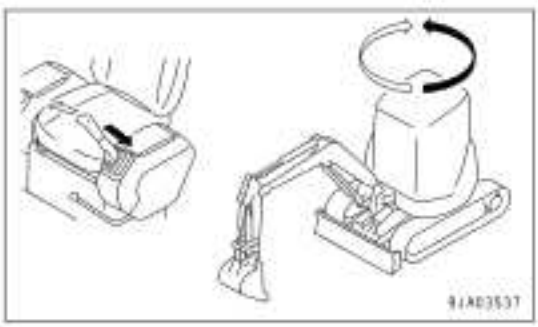
Arm Control

Move the left attachment control lever to the front or rear to operate the arm.



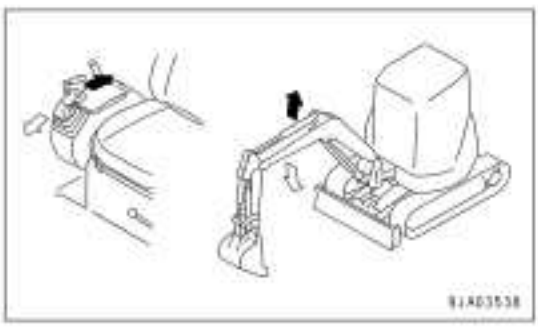
Swing Control

Move the left attachment control lever to the left or right to swing the upper structure.



Boom Control

Move the right attachment control lever to the front or rear to operate the boom.



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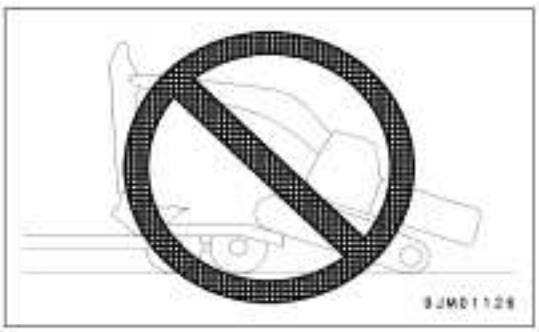
Transportation

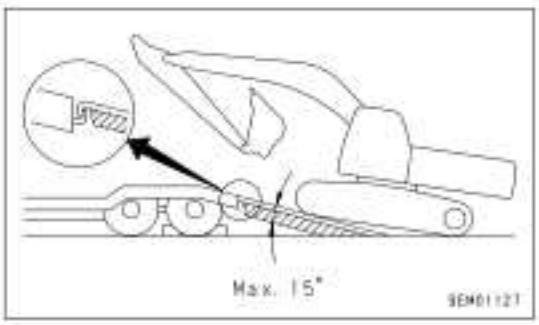
When transporting the machine, observe all related laws and regulations, and be careful to ensure safety. As a basic rule, transport the machine by trailer. Select the trailer to match the weight and dimensions given in "Specifications" on page 209. Note that the value for the weight and transportation dimensions given in Specifications may differ according to the type of shoe or type of arm or other attachments.

Loading and Unloading with Trailer

⚠ WARNING

- When loading or unloading, always drive at low speed and do not operate the traveling accelerator pedal.
- Keep the auto-deceleration switch (if equipped) at the OFF position during loading or unloading operations.
- When loading or unloading, run the engine at low speed and operate slowly.
- When loading or unloading the machine, park the trailer on a flat firm roadbed. Keep a fairly long distance between the road shoulder and the machine.
- Use ramps with ample width, length, thickness, and strength and install them at a maximum slope of 15°. When using piled soil, compact the piled soil fully and prevent the slope face from collapsing.
- Remove the mud from the undercarriage to prevent the machine from slipping to the side on the ramps. Remove any water, snow, grease, oil, or other substances stuck to the ramps.





- It is dangerous to use the backhoe for the loading or unloading operation.
- Never operate any lever other than the travel lever on the ramps.
- The center of gravity of the machine will change suddenly at the joint between the ramps and the track or trailer, and there is a hazard of the machine losing its balance. Travel slowly over this point.
- When swinging the upper structure on the trailer or truck, the machine is unstable, so pull in the backhoe and swing slowly.
- On machines with the cab specifications, always check that the sliding door is locked in position, both when it is open and when it is closed. If the door is open or closed on the ramps or on the platform of the trailer, there is danger that the operating effort will suddenly changed. Do not open or close the door on the ramps or on trailer platforms.

When loading or unloading, always use ramps or a platform and carry out the operation as follows.

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Maintenance Procedure

Initial 250 Hour Maintenance (Only After the First 250 Hours)

Carry out the following maintenance only after the first 250 hours.

- Replace fuel filter cartridge.
- Replace engine oil filter cartridge.
- Check engine valve clearance, adjust.

  Special tools are needed for inspection and maintenance, so contact your Ditch Witch dealer.

For details of the method of replacing or maintaining, see "Every 500 Hours Maintenance" on page 200 and "Every 2000 Hours Maintenance" on page 206.

When Required

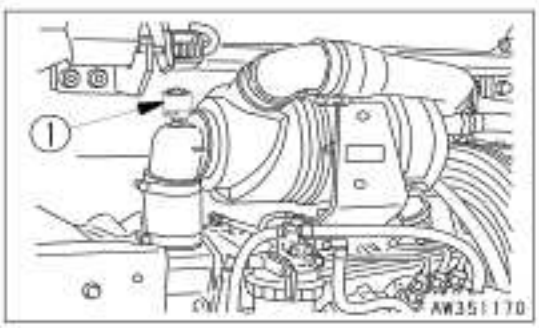
Check, Clean, and Replace Air Cleaner Element

⚠ WARNING

- If inspection, cleaning, or maintenance is carried out with the engine running, dirt will get into the engine and the engine will suffer damage. Always stop the engine before carrying out these operations.
- When using compressed air, there is danger that dirt may be blown around and cause serious injury. Always use safety glasses, dust mask, and other protective equipment.

Checking

Whenever the red piston in dust indicator (1) appears, clean the air cleaner element.



NOTICE

- **Do not clean the air cleaner element before the red piston in dust indicator (1) appears.**
- **If the air cleaner element is cleaned frequently before the red piston in the dust indicator appears, the air cleaner cannot provide the proper performance and the cleaning efficiency is lowered.**

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