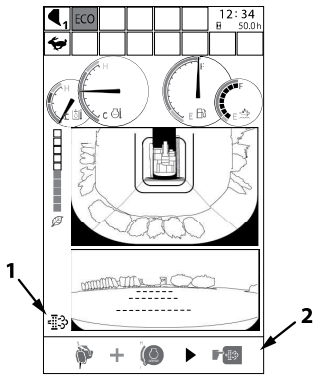
Aftertreatment Device Manual Regeneration

Manual Regeneration Procedure

When manual regeneration is necessary, alarm icon (1) and operational guidance (2) are displayed the monitor. When these appear, it is necessary to perform manual regeneration. Before starting manual regeneration, be sure to check the following.



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Check the Following

- No one around the machine
- No flammable materials near the muffler filter
- Fuel level alarm is not lit
- DEF level alarm is not lit (except ZX120-7 class)

Procedure

1. Park the machine in a safe place. Lower the front attachment and blade (ZX120-7 class) to the ground.

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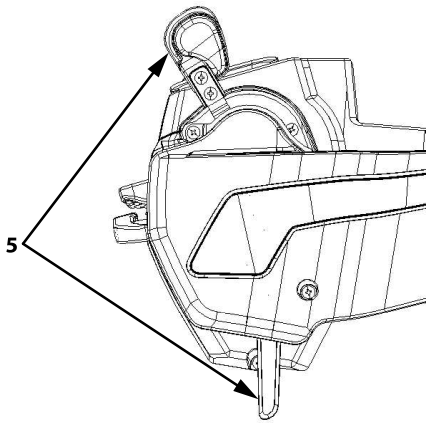
2. Put pilot shut-off lever (5) in the LOCK position.
3. Set the engine control dial to slow idle.



LOCK Position

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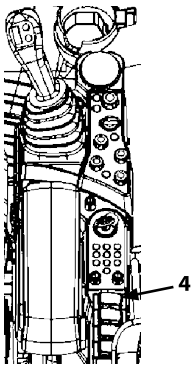
4. Push aftertreatment device manual regeneration switch (4).



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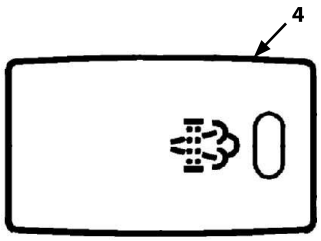

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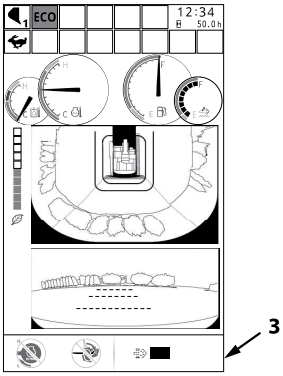
5. When aftertreatment device manual regeneration switch (4) is pressed, screen (3) illustrated at right is displayed and manual regeneration starts. A bar graph on screen shows the progress of the regeneration process.



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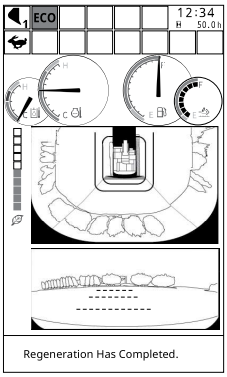
IMPORTANT

Manual regeneration does not start unless the pilot shut-off lever is in the LOCK position and the engine control dial is in slow idle. If the pilot shut-off lever or the engine control dial are touched during manual regeneration, the regeneration process is aborted. If the process is aborted, start over again. Note that even if manual regeneration fails with a ZX120-7 class machine, auto-regeneration may run in some conditions. In such case, redoing manual regeneration is not possible.

6. When manual regeneration is complete, the message "Regeneration Has Completed." is displayed. If the message "Regeneration Has Failed" is displayed, start the manual regeneration process over again. The regeneration process may fail in conditions other than those mentioned above (such as sensor malfunction or low air temperature).



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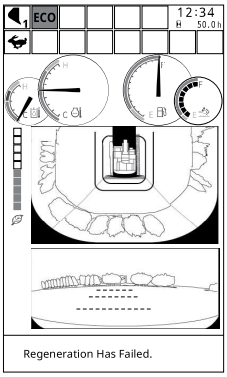

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NOTE

- *The engine sound may change and the engine speed may increase when manual regeneration starts. This is not a malfunction.*
- *Regeneration time varies depending on the air temperature.*
- *White smoke may come from the tail pipe temporarily during the regeneration process. This is not a malfunction.*
- *Note that manual regeneration takes less time after the machine has been operated and longer when the engine is cold.*
- *Coolant temperature may increase during manual regeneration.*

IMPORTANT

- **If regeneration has to be suspended to move the machine, push the manual regeneration switch again. "Regeneration Has Failed." is displayed on the monitor, but the machine can be operated. In such cases, manual regeneration should be performed again. Restart manual regeneration as soon as possible. (Except ZX120-7 class)**
- **If regeneration has to be suspended to move a ZX120-7 class machine, turn aftertreatment device regeneration inhibition ON.**
  "Regeneration Has Failed." is displayed on the monitor, but the machine can be operated. When the aftertreatment device regeneration inhibition is OFF, auto-regeneration may start. If you wish to interrupt regeneration, refer to Aftertreatment Device Regeneration Inhibition (1-86).
  If an aftertreatment device manual regeneration request is issued, run the manual regeneration process.
- **Depending on the working and environmental conditions, the performance of the catalyst in aftertreatment device may decrease and replacement may become necessary. After warm-up is complete, manual regeneration normally takes around 25 to 40 minutes to complete. If regeneration takes over 60 minutes, contact your nearest authorized dealer to arrange an inspection.**