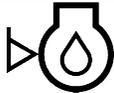
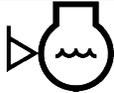
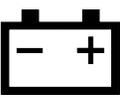


OPERATOR'S STATION

Display	Alarm Name	Description of Alarms
	Engine Oil Level Check (Abnormal) ^{*3}	Check engine oil level and refill oil if necessary by following the operation manual.
	Engine Start Disabled (Engine Stop SW) ^{*3}	As the engine stop switch is in the "STOP" position, the engine can not be started.
	Engine Start Disabled (Pilot Shut-off Lever etc.) ^{*3}	As the pilot shut-off lever is in the "UNLOCK" position, the engine can not be started.
	Coolant Level Check (Abnormal) ^{*3}	Check coolant level and add coolant if necessary by following the operation manual.
	Preheating Operation Status ^{*3}	The glow plug is in operation.
	Auto Shut-Down Abnormal Alarm	Auto-idling system is abnormal. Contact your nearest authorized dealer.
	Engine Output Restriction Alarm	Engine output is limited.
	Engine Output Reduction Alarm	Engine Output And Speed Are Restricted.
	Escape Mode Alarm ^{*3} (for engines not using DEF/AdBlue [®]) (Only ZX120-7 class)	Engine output restriction is temporarily suspended due to abnormality of the EGR device. Immediately contact your nearest authorized dealer.
	Escape Mode Alarm ^{*3} (Except ZX120-7 class)	DEF level is low or engine output restriction is temporarily suspended due to abnormality of the aftertreatment device. Immediately refill DEF or repair the aftertreatment device. If the system is abnormal, contact your nearest authorized dealer.
	Urea SCR System Abnormal Alarm (Red) ^{*1} (Except ZX120-7 class)	Aftertreatment device is broken. Contact your nearest authorized dealer.
	Aftertreatment Device Abnormal Alarm ^{*1} (Red)	Aftertreatment device is abnormal. Immediately set the machine in a safe position, stop the engine and contact your authorized dealer.
	Aftertreatment Device Abnormal Alarm (Yellow)	Aftertreatment device is abnormal. Contact your nearest authorized dealer.
	EGR Device Failure ^{*1}	EGR device is broken. Contact your nearest authorized dealer.
	Aftertreatment Device Regeneration Request ^{*1}	Regeneration of aftertreatment device is required. Set the machine in a safe position. Pull the pilot shut-off lever to the "LOCK" position, run the engine at slow idle speed, and turn the manual regeneration switch to the REGENERATION position. For more information, refer to the operation manual.

OPERATOR'S STATION

Display	Alarm Name	Description of Alarms
	Aftertreatment Device Regeneration Inhibit Alarm	As regeneration is inhibited, can not execute regeneration. Move the machine to a safe place, release the regeneration inhibition. For more information, refer to the operation manual.
	DEF Low Level Alarm *1*3 (Except ZX120-7 class)	DEF level is low. Refill DEF by following the operation manual.
	Hydraulic System Abnormal Alarm*1 (Red)	Hydraulic system is abnormal. Immediately set the machine in a safe position, stop the engine and contact your authorized dealer.
	Hydraulic System Abnormal Alarm (Yellow)	Hydraulic system is abnormal. Contact your nearest authorized dealer.
	AFL System Abnormal Alarm*1 (Red) (Optional)	AFL system is abnormal. Immediately set the machine in a safe position, stop the engine and contact your authorized dealer.
	AFL System Abnormal Alarm (Yellow) (Optional)	AFL system is abnormal. Contact your nearest authorized dealer.
	Hydraulic Oil Overheat Alarm*1	Hydraulic oil temperature is abnormally increasing. Stop operation. Run the engine at slow idle speed to lower the hydraulic oil temperature. Clean the oil cooler and front screen, and check the hydraulic oil level and piping oil leak by following the operation manual.
	Hydraulic Oil Filter Restriction Alarm	The hydraulic oil filter is clogged. Replace the hydraulic oil filter element by following the operation manual.
	Pilot Shut-off Lever Alarm*1	Pilot shut-off lever system is abnormal. Immediately set the machine in a safe position, stop the engine and contact your authorized dealer.
	Control Lever Auto-Lock System Failure Alarm(Flashes)	The control lever auto-lock system is abnormal. There is a possibility that control lever auto-lock system will be not normally operated even when the pilot shut-off lever lock is released while the control levers, pedals, or buttons are given to move. Contact your authorized dealer.
	Control Lever Auto-Lock System Active(Lit)	There is a possibility that the pilot shut-off lever lock is released while the control levers, pedals, or buttons are given to move. Put pilot shut-off lever LOCK position. Make sure all the control levers, pedals, or buttons are in neutral and then put pilot shut-off lever UNLOCK position.
	Alternator Alarm*1	The generated voltage of the alternator is decreasing. Check the belt driving the alternator and adjust it if necessary by following the operation manual. If the alarm does not disappear, contact your nearest authorized dealer.
	Electrical System Abnormal Alarm*1	Electrical system is abnormal. Immediately set the machine in a safe position, stop the engine and contact your authorized dealer.

OPERATOR'S STATION

Aftertreatment Device

Aftertreatment Device Condition Indicator

Aftertreatment device indicator (1) displays the condition of the aftertreatment device. The following explains the displayed icons and status of the machine.



This indicates hot exhaust gas during aftertreatment device regeneration. It lights up while auto or manual regeneration is in progress.

NOTE

- *Auto-regeneration is performed approximately 15 hours (6 hours for the ZX120-7 class, 100 hours for the ZX160-7 class) after the previous regeneration. Auto-regeneration may start during operation of the machine; the machine may continue to be used. The engine sound and/or the machine response to the operation of control levers may change when performing auto-regeneration; this is not a malfunction.*
- *Do not stop the engine during regeneration unless absolutely necessary.*

When the manual regeneration switch is pushed during the auto-regeneration process, the message "Manual Regeneration Switch Operation is Not Necessary." is displayed in comment section (2) at the bottom of the monitor.

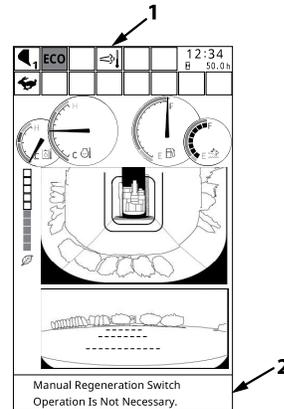
Depending on the operating conditions of the machine, the regeneration may not be completed. In this case, an aftertreatment device manual regeneration request is displayed on monitor. Immediately perform manual regeneration according to the procedure.



This mark indicates that the aftertreatment device regeneration is inhibited. Regeneration is not performed while this mark is lit.

IMPORTANT

Set aftertreatment device regeneration to the inhibited position while operating the machine in an environment with materials that could be flammable. (Refer to page 1-86)



MDFY-MT-142-1 en_GB

OPERATOR'S STATION

Aftertreatment Device Manual Regeneration Request

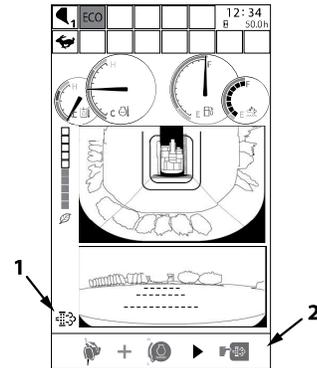
The aftertreatment device needs regeneration. Usually, regeneration is performed automatically. However, under some conditions manual regeneration is required. In such cases alarm icon (1) and operation guidance (2) will be displayed on monitor.



This mark indicates that the aftertreatment device manual regeneration is required. Perform manual regeneration by following the specified procedure.



This mark indicates that the aftertreatment device regeneration is inhibited. Displayed when the manual regeneration request arises while aftertreatment device regeneration is inhibited. Move the machine to a safe place. Following the specified procedure, release the regeneration inhibition.



MDFY-MT-114-1 ja

IMPORTANT

- **Manual regeneration performed when the aftertreatment device regeneration request is displayed restores aftertreatment device function. This is not a malfunction.**
- **If the machine is continuously operated despite the aftertreatment device regeneration request being displayed, an engine trouble alarm will be displayed. Contact your authorized dealer.**

OPERATOR'S STATION

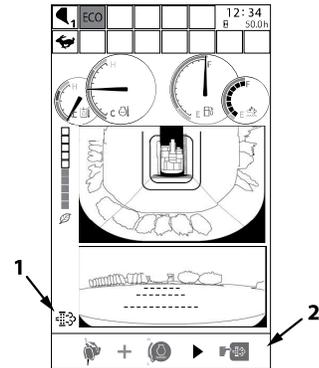
Manual Regeneration Procedure

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.

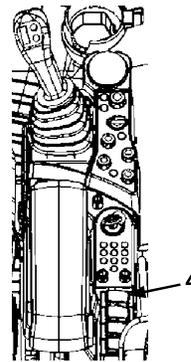
- No one around the machine
- No flammable materials near the muffler filter
- Fuel level alarm is not lit
- DEF level alarm is not lit (except ZX120-7 class)

Procedure

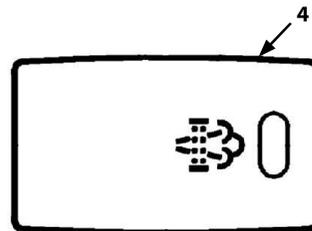
1. Park the machine in a safe place. Lower the front attachment to the ground.
2. Put the pilot shut-off lever in the LOCK position.
3. Set the engine control dial to slow idle.
4. Push aftertreatment device manual regeneration switch (4).



MDFY-MT-114-1 ja



MDFY-01-001-1 ja



MDFY-01-118-1 ja

OPERATOR'S STATION

- 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.

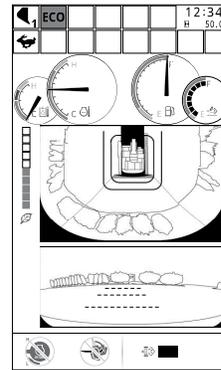
IMPORTANT

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.

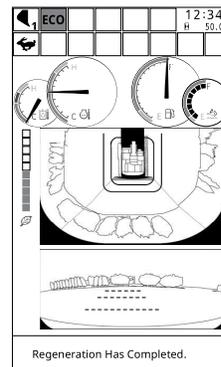
- When manual regeneration is completed, the message "Regeneration Has Completed." is displayed. If the message "Regeneration Has Failed" is displayed, start the manual regeneration process over again. The regeneration process may fail in conditions other than those mentioned above (such as sensor malfunction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

NOTE

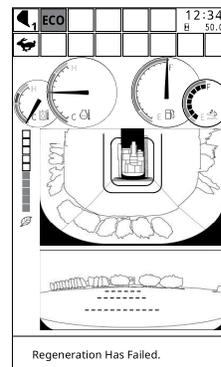
- The engine sound may change and the engine speed may increase when manual regeneration starts. This is not a malfunction.*
- Regeneration time varies depending on the air temperature.*
- White smoke may come from the tail pipe temporarily during the regeneration process. This is not a malfunction.*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



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MDFY-MT-116 en_GB



MDFY-MT-117 en_GB

OPERATOR'S STATION

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.