

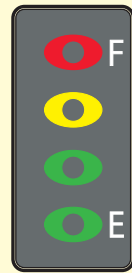
CREVO 250 G3 α How to Use Regeneration Control DPF

The regeneration control DPF system collects soot (particulate) contained in exhaust gas into the ceramic filter inside the muffler. When the accumulated soot reaches a specified level, the system performs automatic regeneration (removal by combustion) while the machine is traveling or being operated (DPF automatic regeneration). The automatic regeneration may not be completed during repetitive start/stop or continuous traveling at a low speed. In such a case, it is necessary to stop the machine and perform manual regeneration (DPF manual regeneration). When manual regeneration is required, it is notified by the lighting or flashing of the DPF warning. Park the vehicle in a safe place and perform manual regeneration.

1 DPF level gauge

The DPF level gauge shows the amount of accumulated soot. For safety, it is recommended to check the soot amount daily and perform manual regeneration as necessary. For details, refer to the operation manual.

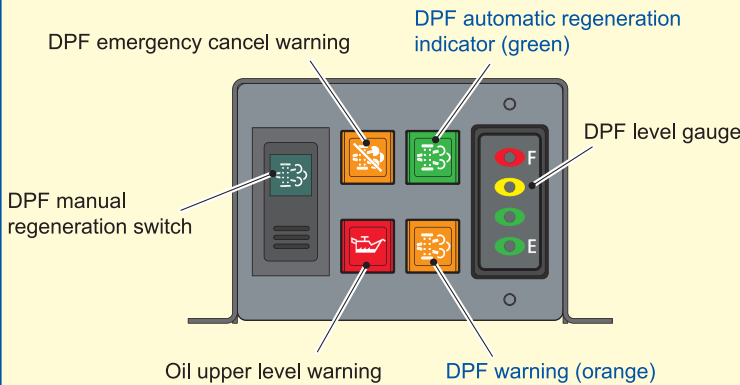
Manual regeneration is enabled after the 3rd indicator (yellow) of the DPF level gauge is lit. Regeneration operation can be completed quicker while the engine is warm, such as after work.



Lighting Status	Accumulation	Regeneration requirement
All lit	Extreme Large ↑	Manual regeneration
4th lit		
3rd lit		Automatic regeneration (Manual regeneration is also possible.)
2nd lit	Zero	Normal (not required)
1st lit		
None lit		

2 Lighting of DPF automatic regeneration indicator, Lighting/Flashing of DPF warning

WARNING Do not perform DPF manual regeneration in an area with poor airflow. It can cause carbon monoxide poisoning.



CAUTION When stopping the machine during automatic regeneration or performing manual regeneration, check that there are no flammable items near the exhaust opening. Because the exhaust gas temperature is high, flammable items can cause a fire. Do not touch the exhaust pipes, area near the muffler, and exhaust gas. It can cause burn injury.

When DPF automatic regeneration indicator is lit → DPF automatic regeneration is in action.

Idling speed is raised, and the exhaust brake is activated during driving. No special operation is required, and normal drive and operation are possible.

When DPF warning is lit/flashing → Perform DPF manual regeneration.



When DPF warning is lit

Perform manual regeneration soon.
 Travel: 20 minutes or sooner as a guide
 Operation: 1 hour or sooner as a guide
 *This period may vary depending on operation environment.



When DPF warning is flashing

Stop traveling or operation, and immediately perform manual regeneration.

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3 Procedure of manual regeneration (Manual regeneration is enabled after the 3rd indicator (yellow) of the DPF level gauge is lit.)

1 Park the vehicle in a safe place.
* Because the exhaust gas is hot during regeneration operation, check that there are no flammable items near the exhaust opening.

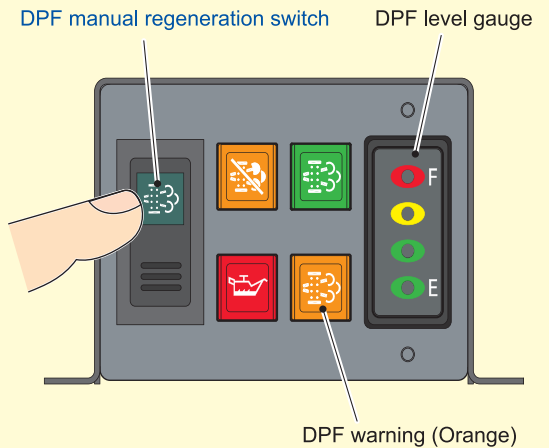
2 Set the machine in the following status.

- Parking brake switch: "PARK"
- Shift lever: "N"
- PTO switch: "OFF"
- Idling adjuster knob: "AUTO"
- Release the accelerator pedal.

* Warm up the engine if the water temperature is low.

3 Press and hold the DPF manual regeneration switch for 5 seconds.

4 The DPF warning is lit and the engine speed is increased to 1500 min⁻¹ {rpm}, and manual regeneration begins.
The manual regeneration process takes approximately 10 to 20 minutes. Manual regeneration is completed when the DPF warning and DPF level gauge go out.
* The manual regeneration period may vary depending on the amount of accumulated soot and other conditions.



CAUTION

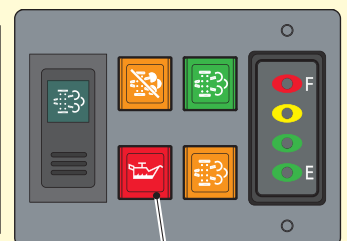
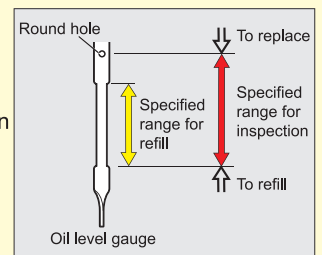
If traveling or operating of the machine is continued without performing DPF manual regeneration, the engine warning is lit and the engine output decreases. Traveling or operating the machine with the engine warning being lit may cause engine trouble. Contact your nearest TADANO distributor or dealer immediately.



4 Engine oil check

During pre-traveling check, check the engine oil amount with the oil level gauge. For the machine equipped with the regeneration control DPF, the engine oil may be diluted with the fuel and the amount of the oil may be increased during DPF regeneration operation.

- It is normal when the engine oil adhered on the oil level gauge is within the specified range for inspection (between the lower cutout and the round hole).
- When the oil level is low, refill oil up to the specified range for refill.
- Replace engine oil if the engine oil level exceeds the round hole. Otherwise, it may cause engine trouble, or result in unexpected increase of engine speed.



Oil upper level warning



For quick check of the engine oil level from the cab, check the lighting status of the oil upper level warning.

(Procedure)

1. Before starting the engine, turn the starter switch to "ON" and keep it for 5 seconds or more, and then check the state of the oil upper level warning. If the engine oil level has been increased, the oil upper level warning is lit.
2. When the oil upper level warning is lit, check the oil engine amount with an oil level gauge.

CAUTION

To maintain the DPF function for a long period of time, use the designated engine oil dedicated to DPF (JASO standards: DH-2 or higher). For brands of engine oil, refer to the engine manual.

5 Fuel

Use only ultra-low sulfur diesel (diesel contains 50 ppm sulfur or lower) for this machine.

Using fuels other than the specified ones may cause troubles in DPF and engine.

Read this before operation. For details, refer to Operation manual.