

1. REGENERATION INSTRUCTIONS

1.1. GENERAL SPECTS:



The equipment must to be operated by qualified personnel only.

There is a need to know that an inappropriate use can result in an accident. To avoid this, before operating, maintaining or repairing the genset, it is important to follow all of these steps.

Perform all the safety inspection and checking operations detailed in this manual, before starting up the regeneration.

All Stage V engines needs, at a certain time, to do a REGENERATION cycle to clean the DPF FILTER.

REGENERATION is a demand of ENGINE's ECU to the genset controller and this depends on the running hours and the use of the engine.



When REGEN is needed, the regeneration symbol and a YELLOW LAMP (WARNING IN ECU LIST) appear. REGEN symbol blinks.



The REGENERATION request does not prevent the generator from continuing to work for a certain period of time.

PLAN to carry out this action as soon as possible.



For safety reasons, if the regeneration request is not met, the engine will automatically reduce power. At the end of this period, the engine will be locked and cannot be used. To unlock it, you will need to contact the engine manufacturer's Technical Service.



Don't connect any load to the genset during the REGENERATION TO AVOID electrical risk in the alternator and the loads.

1.2. HOW TO DO THE REGENERATION:



Perform all the safety inspection and checking operations detailed in this manual, before starting up the regeneration. During regeneration, the engine is running at higher speed than nominal. If there is a lack of fuel the regeneration won't finish correctly and it will be necessary to do another cycle. Provide fuel for at least 1 hour of continuous engine operation.



NEUTRAL POSITION: For safety reasons, the regeneration must be done in neutral position. It means:

- The genset must not be in working mode.
- No loads connected.
- All, GCB and MCB (kit socket panel) must be switched off.
- If these conditions are not reached, the regeneration will not start. If the conditions are OK, put the key selector "NEUTRAL REDUNDANT" in "ON" position (turn the key anti-clockwise).

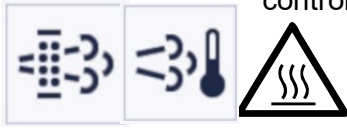
To start the REGENERATION CYCLE:




- Put the control card in "MAN MODE" and start the engine.
- When the regeneration symbol and a YELLOW LAMP (WARNING IN ECU LIST) appear.

Turn the selector to "FORCE REGEN ATT".

- After that, the REGENERATION cycle starts. The engine increases its speed from nominal to DPF REGENERATION RPM. At this point the ENGINE ECU controls the whole engine during the cycle.



- When the REGENERATION cycle is active the REGENERATION symbol is steady and doesn't blink. It appears the second symbol that indicates HIGH exhaust temperature.

-  **Attention:** During regeneration DPF and other exhaust engine parts reach HIGH TEMPERATURES that can cause injuries or fire.



- If, for any reason, regeneration needs to be stopped, turn the selector to the "INHIBIT REGEN ATT" position. The regeneration cycle automatically stops, and the engine returns to nominal speed. Turn the "NEUTRAL REDUNDANT" selector counter clockwise to return to operating conditions.
- If the cycle is incomplete, a regeneration cycle will need to be performed from scratch.
- The REGENERATION cycle lasts approximately 45min to 1 hour depending on the conditions of the engine. When the regeneration cycle finish, and the engine returns to nominal speed. The regeneration symbol disappears.
- Turn the selector "FORCE/INHIBIT REGEN" to "0" position. Turn the "NEUTRAL REDUNDANT" selector counter clockwise to return to operating conditions.
- Stop the engine.

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