



IDST CLEARING CODES AND FORCE PURGE

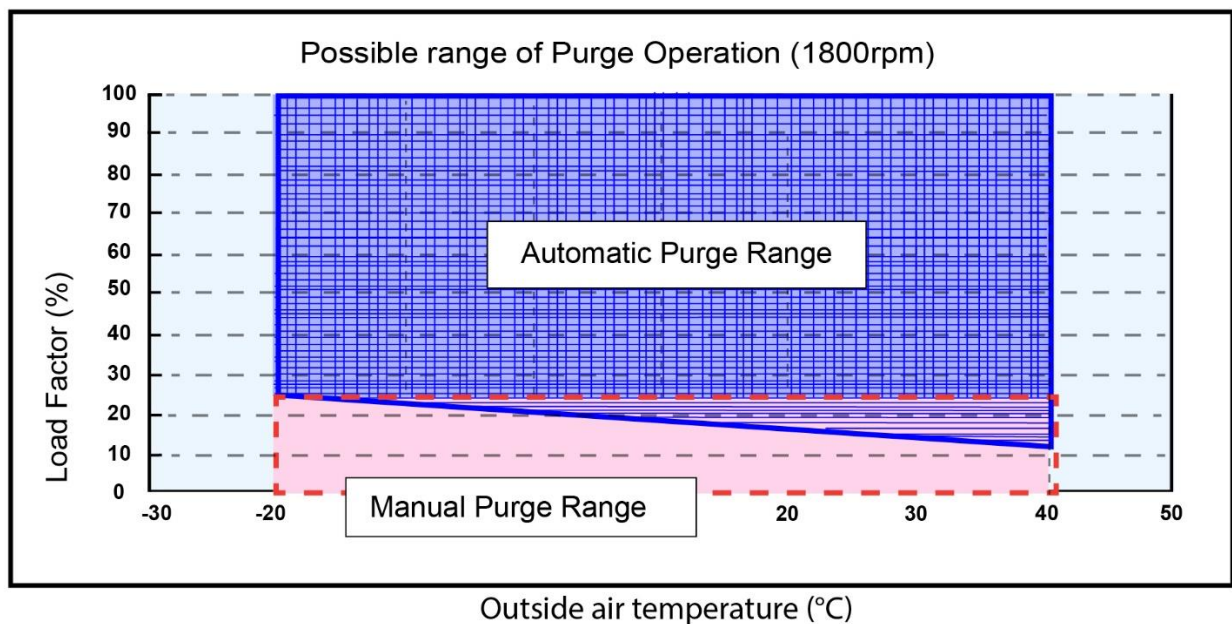
DTC P2458 or SPN 10029.0 ----- Excessive Purge Time out or Purge Time out Error

Purging allows Tier 4 Final Isuzu engine to clean the after treatment system of crystal deposits and soot.

Purge Timeout DTC is set when the unit has been unable to complete 3 consecutive automatic purge cycles.

The engine is programmed to complete a purge automatically as long as a few specific parameters are met, mainly a base exhaust temperature (from a small load), Coolant temp above 170°F and no DTCs are present. Note: It will purge with the Excessive Purge Time out DTC active.

Below is a chart referencing the base temp required for automatic purge to initiate:



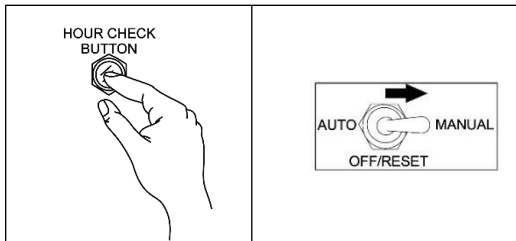
MQ PART# **MQPISUZUSERVTOOL** - Isuzu Diagnostic tool (IDST) is required to clear the DTCs and initiate a Force Purge. Order through MQ Parts Department or Smartequip online order (multiquipparts.com)



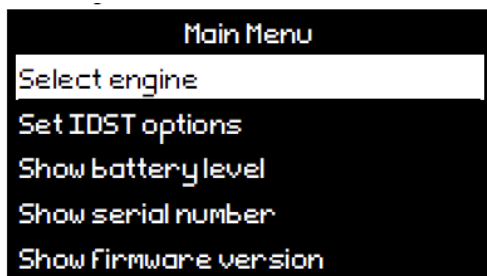
Proceed to the next page on how to clear codes and perform a Force Purge.

Clearing Code

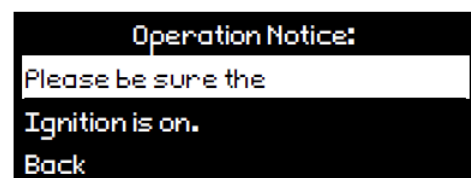
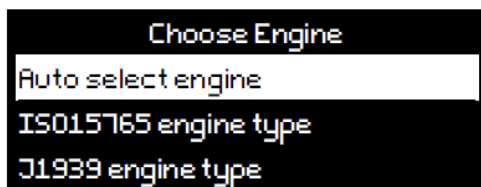
1. Make sure that there are no exhaust leaks and that the service interval is current on fuel filters.
2. Make sure the engine is not running and ignition is on the “OFF” position. (*purge time out cannot be cleared if the engine is running*)
3. Connect the IDST to the battery and Diagnostic connector behind the control panel.
4. Put the unit in diagnostic mode by pressing and holding the hour check button while placing the Auto-Off Reset Manual toggle switch to manual position.



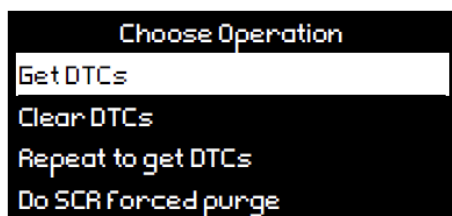
5. With the IDST powered up the start screen will be shown, (below), push select.



6. Then press select again to Auto select engine. Then press select to acknowledge that the ignition is on.



7. From the Main Menu, first select **Get DTCs** it will then display the P2458 code as Present. Now that the DTC's are requested, return to the Main Menu and select **Clear DTCs**.



Now that the codes are cleared proceed to the next page to Force Purge the unit



This bulletin is provided for technical reference and service related updates. If you have any questions, comments or do not wish to receive these e-mails, please reply to this e-mail or call the Service Technical Support Group 800 478-1244.

Performing a Force Purge

Note: A small artificial load of some type might be required to complete a Force Purge. Move the unit to a clear outdoor area, during this cycle it will cause the exhaust temperature to rise. Always use safety precautions when performing this step.

1. With IDST still connected, start the engine and let it warm up.
2. Scroll down to **“Do SCR force purge”** and press select on the IDST. The tool will display **“Request Successful”** on the display screen and the operator screen on the generator engine controller **“SCR Force Purge Active”** will be displayed and the pre-alarm lamp will illuminate.
3. Now on the IDST observe the DPD mode explained below:

DPD mode	Status	Operation explained
95	Normal warmup , purge will begin after warmup period	Should last 5 mins or less, if it stays there heat or load is required to progress to 220
220	Unit is bringing temp up in the DOC to begin Purge.	Should last 5 mins or less, if it stays there heat or load is required to progress to 270
270	Normal purge is active, temp goals were reached and cleaning has begun, diesel Fuel is being injected to further heat and clean the system.	Should last 15 – 25 minutes, smoke from the exhaust will be present during this period.
30	Normal mode	Unit has returned to normal operation

4. The cleaning operation is completed when the pre-alarm light goes out and SCR Force Purge Active alarm goes away. **Please run the unit unloaded for 10 mins to cool off the exhaust before turning the unit off.**

Notes on System Operation and Purging

- If an artificial load is required to get enough heat for the unit to complete a purge, only load the unit to 50% or less.
- The purging process should take less than 30 minutes; if it is taking longer refer to DPD reference chart above.
- If an excessive amount of smoke is observed during a Purge cycle a second Force Purge might be necessary to completely clean the system.
- Purging can be done at any time for normal maintenance even if the Purge Timeout warning is not present.
- The unit can be operated for a short time with Purge Timeout codes present.
- If the Purge Timeout code returns during the Force Purge operation just clear it after the Force purge is completed.
- It is important to note that these units are not equipped with a diesel particulate filter that would require regeneration.