



Countries: CANADA, UNITED STATES
Availability: ISIS, IsSIR
Major System: EXHAUST
Current Language: English
Other Languages: NONE
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Coding Information

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Title: International CV Cold Weather Operation – P208A, P105A DTCs with Frozen DEF Tanks

Applies To: MY22 emissions International CV trucks

DESCRIPTION

International CV Cold Weather Operation – P208A, P105A DTCs with Frozen DEF Tanks

Due to an error in the new engine controller software for MY22 emissions International CV trucks, the vehicles may display DTCs P208A or P105A because of a frozen DEF tank. A software update is currently being developed and will be released in Summer 2022.

In severe cold weather operation, the vehicle DEF tank may become frozen. The SCR system utilizes DEF fluid to control exhaust emissions and meet the regulated emissions requirements. For the system to function properly, under severe conditions the DEF tank and lines are electrically heated to address frozen DEF. In certain cases, the engine controller is designed to delay DEF dosing until the DEF tank is thawed. Due to the software error, the engine controller may not wait long enough to allow the DEF tank and line heating system to properly thaw the DEF before activating the DEF pump. If this were to occur, an error will be displayed on the truck's information center and an inducement schedule will be initiated. If the driver continues to operate the vehicle in this condition, vehicle speed will eventually be limited, in some cases to 5 mph.

To reduce the risk of a severe derate due to this error only, a key cycle when the DEF is thawed may eliminate the inducement error. **Note: a key cycle will not eliminate the error if the DEF is still frozen or missing, the DEF tank is empty, or the DEF system is experiencing a different issue.**

While the engine is running, the electrically operated DEF tank and line heaters will continue to function, thawing the frozen DEF. A key cycle once DEF is thawed allows the system to reset, detect thawed DEF, and operate normally. The MIL will remain illuminated for the required number of drive cycles even though the inducement schedule is lifted. Once DEF is thawed and the system has resumed normal operation for two consecutive drive cycles, the MIL will turn off. Idling the vehicle at startup until the DEF is thawed may also reduce the risk of these specific errors occurring.

Note: This software issue only affects MY22 emissions International CV trucks. This is not the same Model Year as found in the VIN. Emissions Model Year can be found on the engine information labels installed on the engine valve cover and on the vehicle firewall within the engine compartment.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
P208A	Reductant Pump Control Circuit
P105A	Reductant Pump Low Speed

Customer Observations or Concerns:

MIL

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

OTHER RESOURCES

[Master Service Information Site](#)

Helpful: 1
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