Exhaust Fluid System Fault Procedure

Note: Verify that no DTCs are present and one of the Exhaust Fluid System Fault messages or the DEF System Fault message is present in the instrument cluster message center before carrying out the procedure.

The Exhaust Fluid System Procedure is carried out to clear the SCR system messages and allow the vehicle to exit the forced idle mode for the following messages:

- Engine Idled Soon Exhaust Fault See Manual
- Engine Idled See Manual Exhaust Fluid System Fault

1. Access the PCM and monitor the AAT, EGT12, EGT13, EGT14, RPM, REDUCT_INJ_DC, REDUCT_TNK_P and REDUCT_TNK_T PIDs.
2. Verify the EGT12 PID (Wide Frame vehicles with a GVW under 14k) or EGT13 PID (Narrow Frame vehicles with a GVW over 14k) value is less than 65 °C (149 °F). If the PID value is greater than 65 °C (149 °F), allow the vehicle to cool soak until the PID value is less than 65 °C (149 °F).
3. Verify the AAT PID and the REDUCT_TNK_T PID value is greater than -5 °C (23 °F). Start the engine. Increase the engine RPM using the accelerator pedal to 1500 to 2000 RPM. Monitor the EGT12 PID (Wide Frame vehicles with a GVW under 14k) or EGT13 PID (Narrow Frame vehicles with a GVW over 14k) value until the PID value reaches 90 °C (194 °F). Decrease the engine RPM and allow the engine to idle.
4. With the engine at idle, monitor the REDUCT_TNK_P PID for an increase in pressure to 496 kPa (72 psi).
   - For Wide Frame vehicles with a GVW under 14k, while at idle, monitor the REDUCT_INJ_DC PID. The PID value should display a square wave injection pattern within 90 seconds of the REDUCT_TNK_P PID pressure increase. This wave pattern should last approximately 30 seconds.
   - For Narrow Frame vehicles with a GVW over 14k, drive the vehicle at 8 Kmph (5 MPH) and monitor the REDUCT_INJ_DC PID. The PID value should display a square wave injection pattern within 90 seconds of driving the vehicle. This wave pattern should last approximately 30 seconds. Continue driving for the duration of injection pattern.
5. When the injection cycle completes, with the vehicle in park, increase the engine RPM to 2000 to 2500 RPM using the accelerator pedal. With the engine RPM elevated, monitor the EGT14 PID until the value is 220 °C (437 °F) or the message in the message center has cleared. Carry out step 6 if the message does not clear.
6. If the message does not clear, the vehicle must be allowed to cool to 65 °C (149 °F) or less, then repeat steps 1 through 5.