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Service Information Bulletin

SUBJECT	DATE
SPN 3556 (ACM) (EPA10)	July 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 3556/FMI 1 - EPA10	The diagnostics have been updated to include DOC face plugging as a possible cause.



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2 SPN 3556/FMI 1 - EPA10

Regeneration Temperature - Out Of Range Low - EPA10

Table 1.

SPN 3556 /FMI 1	
Description	This code sets when the Diesel Oxidations Catalyst (DOC) outlet temperature does not increase above the modeled threshold when regeneration is enabled.
Monitored Parameter	DOC outlet temperature sensor
Typical Enabling Conditions	Regeneration enabled, 1100 to 2050 rpm, 50% to 100% engine load.
Monitor Sequence	None
Execution Frequency	Continuous When Enabling Conditions Met
Typical Duration	20 seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Parked Regeneration

Check as follows:

1. Connect DiagnosticLink[®].
2. Turn the key ON (Key ON, Engine OFF).
3. Check for multiple codes. Are there DOC outlet temperature sensor drift fault codes, DOC outlet temperature sensor stuck fault codes, or DOC outlet temperature sensor circuit fault codes present?
 - a. Yes; diagnose the other fault codes first. Verify repair.
 - b. No; Go to step 4.
4. Are there any HC doser low pressure fault codes present?
 - a. Yes; diagnose the other fault codes first.
 - b. No; Go to step 5.



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

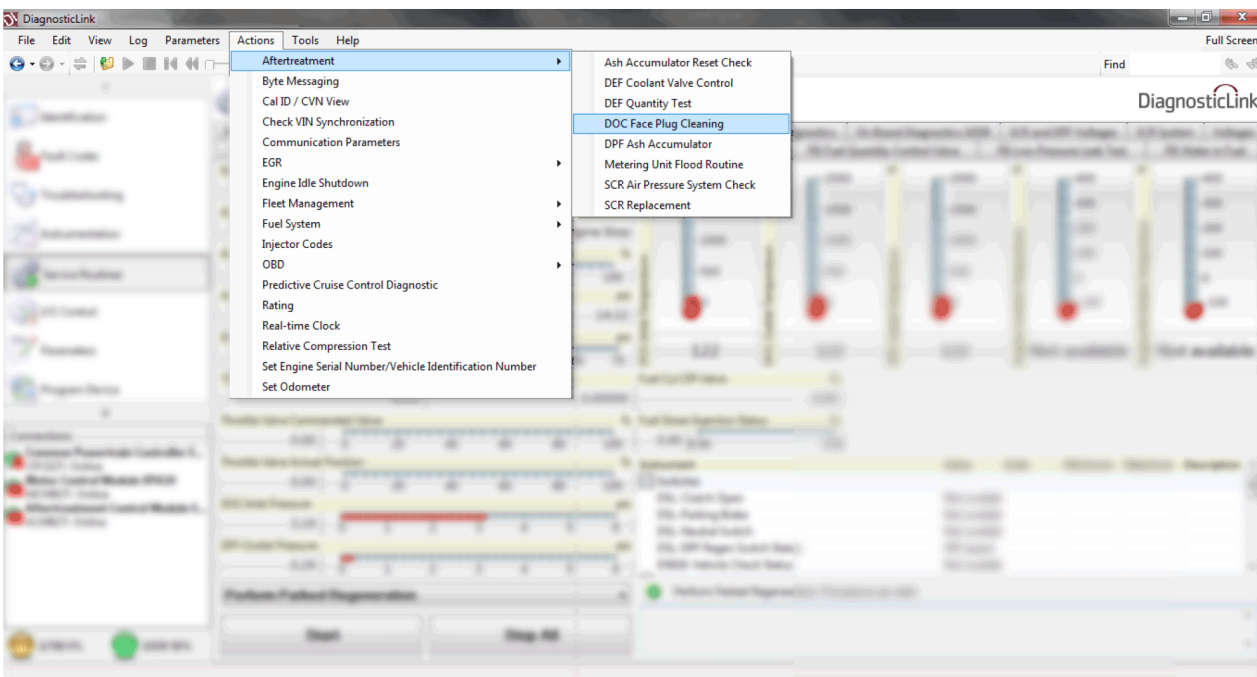


WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

5. Start the engine.
6. Perform a low temp Aftertreatment Device (ATD) regeneration; Refer to section "EPA10 Perform Performance Check - Low Temperature ATD". Go to step 7.
7. After the low temp ATD regeneration has run for 20 minutes, monitor the DOC outlet temperature sensor reading. Is the DOC outlet temperature sensor reading within 25°C (45°F) of the other exhaust temperature sensor readings?
 - a. Yes; Go to step 8.
 - b. No; replace the DOC outlet temperature sensor. Refer to section "Removal of the EPA10 Diesel Oxidation Catalyst Outlet Temperature Sensor". Verify repair.
8. Visually inspect the exhaust system for leaks. Are there exhaust leaks present?
 - a. Yes; repair the exhaust leaks. Verify repair.
 - b. No; Go to step 9.

9. Perform a parked regeneration. Go to step 10.
10. Review the log file and monitor the DOC inlet pressure sensor reading. Does the DOC inlet pressure sensor reading start off high and stay high (1.5 or greater for a one box and 1.8 or greater for a 2 box)?
 - a. Yes; the constant high pressure indicates that the DOC is plugged. Go to step 11.
 - b. No; replace the HC doser block. Refer to section "Removal of the Hydrocarbon Doser Block ". Verify repair.
11. Check the Aftertreatment Control Module (ACM) software level. Is the ACM software level at least 8.7.0.105?
 - a. Yes; Go to step 12.
 - b. No; update the ACM software. Go to step 12.



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12. Use DiagnosticLink and perform the DOC Face Plug Cleaning routine.