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## Service Information Bulletin

SUBJECT	DATE
SPN 4360/FMI 10, 15 (ACM2.1)	August 2012

### Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	GHG14 DD Platform	SPN 4360/FMI 10 (ACM2.1)	These are new sections.
		SPN 4360/FMI 15 (ACM2.1)	



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## 2 SPN 4360/FMI 10 – GHG14

This diagnostic is typically SCR Inlet Temperature Sensor - Rationality Error.

1. Connect DDDL/DDRS 7.08 SP2.
2. Turn the ignition ON (key ON, engine OFF).
3. Check for multiple codes.
  - a. If other faults are active in addition to SPN 3250/FMI 2, troubleshoot the other faults first.
  - b. If only SPN 4360/FMI 10 is present, Go to step 4.



### WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



### WARNING: ENGINE EXHAUST

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

4. Start the engine.
5. Monitor the SCR inlet temperature sensor, the DOC outlet temperature sensor, and the Diesel Particulate Filter (DPF) outlet temperature sensor. Are the temperatures within 25°C (45°F) of each other?
  - a. Yes; Go to step 12.
  - b. No; Go to step 6.
6. Continue idling for 10 minutes, recheck the temperatures, and turn the ignition OFF. Are the temperatures now within 25°C (45°F) of each other?
  - a. Yes; Go to step 12.
  - b. No; Go to step 7.
7. Turn the ignition ON (key ON, engine OFF).
8. Access the SCR and DPF Voltages service routine.
9. Select “start acquiring.”
10. Monitor the SCR inlet temperature voltage (T\_SCR\_IN). Continue monitoring and wiggle the wire harness from the Aftertreatment Device (ATD) to the Aftertreatment Control Module (ACM2.1). Is there a large deviation in the voltage?
  - a. Yes; Go to step 11.
  - b. No; Go to step 12.
11. Inspect the electrical connections upstream of the ACM: SCR inlet temperature sensor, ATD harness 10-pin connector, VIH 47-pin connector, and ACM2.1 120-pin connector, for corrosion and spread pins.
  - a. If corrosion or damaged or bent pins are found, repair as necessary. Verify repairs.
  - b. If no corrosion or damage is found, replace the SCR inlet temperature sensor. Refer to section "Removal of the GHG14 Selective Catalyst Reduction Inlet Temperature Sensor" .
12. Inspect the SCR inlet temperature sensor harness connector for bent, spread or corroded pins.
  - a. If pin damage is found repair as necessary.
  - b. If no pin damage is found replace the SCR inlet temperature sensor.

### 3 SPN 4360/FMI 15 – GHG14

This diagnostic is typically SCR Inlet Temperature High.

**Table 1.**

SPN 4360/FMI 15	
Description	SCR Inlet Temperature High
Monitored Parameter	SCR Inlet Temperature
Typical Enabling Conditions	Non-Regen Mode
Monitor Sequence	None
Execution Frequency	Continuous when enabling conditions met
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%

1. Connect DDDL/DDRS 7.08 SP2 or higher.
2. Is SPN 3246/FMI 15 (Diesel Particulate Filter (DPF) outlet over temperature) also present?
  - a. Yes; refer to SPN 3246/FMI 15 for diagnostics.
  - b. No; Go to step 3.
3. Monitor parameter AS095 SCR Inlet Temperature Voltage, while flexing (wiggle testing) the harness. Are any sudden voltage changes detected?
  - a. Yes; repair harness as necessary.
  - b. No; Go to step 4.
4. Disconnect the SCR inlet temperature sensor.
5. Inspect the SCR inlet temperature sensor harness connector for bent, spread or corroded pins.
  - a. If pin damage is found, repair as necessary.
  - b. If no pin damage is found, replace the SCR inlet temperature sensor.