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Major System: ENGINES
Current Language: English
Other Languages: NONE
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Coding Information

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Title: Intake Air Temperature Sensor Damaged

Applies To: Prostar,Transtar, Maxxforce IBB

[CHANGE LOG](#)

Dealers: Please refer to the change log text box below for recent changes to this article:

[DESCRIPTION](#)

This article addresses the repair procedure for when the Charge-Air-Cooler Outlet Temperature (CACOT) Sensor fails or is damaged due to the hood making contact with the sensor.

NOTE:

This repair will need to be completed by a body repair facility.

[SYMPTOM\(s\)](#)

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

DTC	Description
SPN 2630 FMI 2	CACOT signal does not agree with other sensors
SPN 2630 FMI 3	CACOT signal Out of range HIGH
SPN 2630 FMI 4	CACOT signal Out of Range LOW
SPN 2630 FMI 7	CACOT signal not responding as expected
SPN 2630 FMI 16	CACOT Under-cooling

Customer Complaint(s):

- MIL light will come on and codes will be stored in the ECM.

[INSPECTION STEP\(s\)](#)

1. If you have one or more of the above DTC's inspect the sensor for damage. Look for cracks in the sensor or damage from rubbing the hood. See figure #1 for example of a broken sensor.
2. Inspect the inside of the hood for markings from rubbing the CACOT sensor. See figure #2 for an example of hood rubbing marks.
3. If the hood is rubbing the sensor then follow the below repair procedure. If there are no signs of rubbing or a broken sensor then diagnose the codes per the diagnostics manual.

[REPAIR STEP\(s\)](#)

1. Print out the correct template depending on whether you have a Prostar or Transtar
 - [Prostar Template](#) (See figure 3 for proper placement.)
 - [Transtar Template](#) (Same as figure 3 only the amount of material taken off will be different)
2. Cut out the center along the lines given
3. Insert the hole over the corner of the hood reinforcement and mark it off
4. Cut the corner of the hood reinforcement off
5. Patch the hole with SMC (Close Mold Fiberglass)
6. Verify the repair is correct and there are no leaks in the hood.





Figure #1: Broken CACOT Sensor





Figure #2: Hood Rubbing Mark From Sensor



Figure #3: Prostar Template Example

SERVICE PART(S) INFORMATION

Kit Description	Part Number	Quantity Required	Ordering Instructions
Intake Air Temperature Sensor	3006479C91	1	Order Thru PDC

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000- Engines
Noun:	194- Sender Manifold Absolute Temperature

Standard Repair Time(s):

Step	Description	SRT Link	Time
1	R12-8013U	CACOT Replace	.4 Hrs
2	T-Time	Hood Alteration	2.5 Hrs

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