



NUMBER: 09-004-18

GROUP: 09 - Engine

DATE: April 24, 2018

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THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 18-048. ALL APPLICABLE SOLD AND UNSOLD RRT VIN's HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

THE wiTECH SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.

SUBJECT:

6.2L Knock Sensor Heat Shield Loose/Missing

OVERVIEW:

This bulletin involves inspecting and if necessary, replacing the knock sensor connector back cover and installing a new heat shield.

MODELS:

2018 (WK) Jeep Grand Cherokee (Trackhawk)

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA, APAC, EMEA and LATAM.

NOTE: This bulletin applies to vehicles built on or before December 06, 2017 (MDH 1206XX) equipped with a 6.2L Supercharged Hemi V8 SRT Engine (Sales Code ESD).

SYMPTOM/CONDITION:

Some customers may experience a Malfunction Indicator Lamp (MIL) illumination due to damage to the knock sensor from exposure to high heat conditions. Upon further investigation, a technician may find one of the following Diagnostic Trouble Code (DTCs):

- P0330 - Knock Sensor 2 Circuit

DIAGNOSIS:

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. This RRT only applies to vehicles on the RRT VIN list.

INSPECTION:

1. Raise and support the vehicle. (Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: 04 - Vehicle Quick Reference/Hoisting/Standard Procedure).
2. With vehicle on a hoist, remove the heat shield and inspect knock sensor heat shield (Fig. 1) .

If vehicle's exhaust system is hot, wait for engine to cool down or wear a protective sleeve to protect against burns.

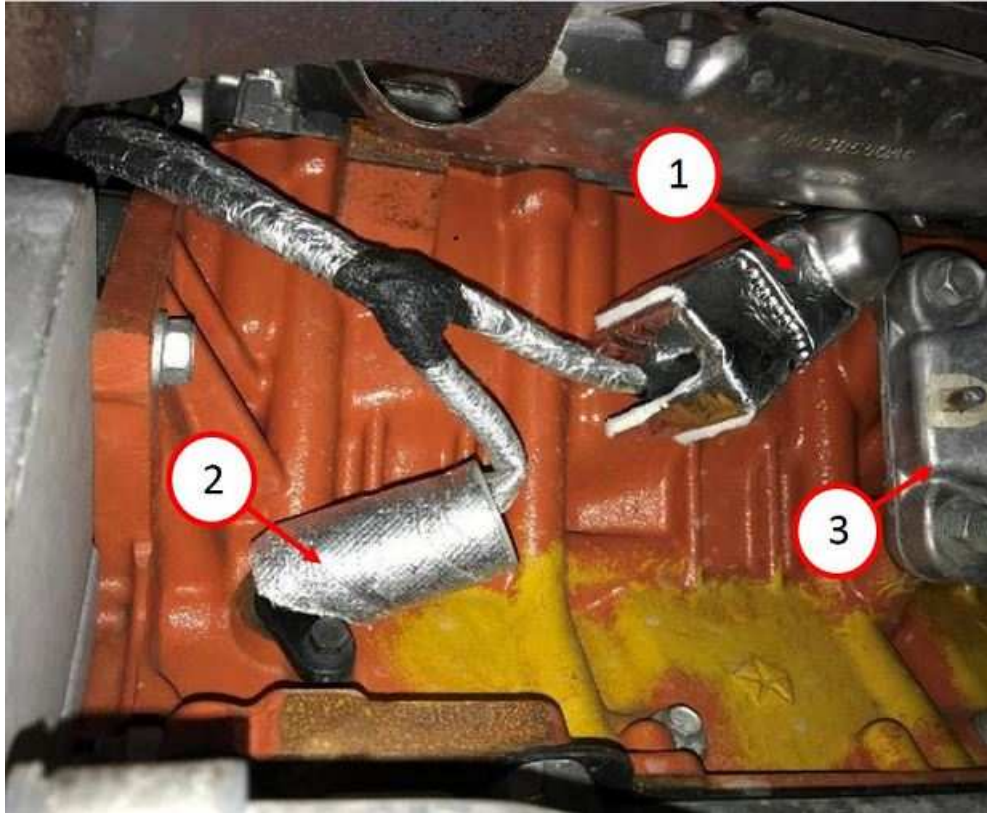


Fig. 1
Sensor Locations

- 1 - Knock Sensor
- 2 - Crankshaft Position Sensor
- 2 - RH Engine Mount

3. Was the knock sensor heat shield (Fig. 1) loose, missing or is there any damage to the harness connector back cover?
 - YES>>> Continue to the Repair Procedure. Proceed to [Step 1](#) of the Repair Procedure.
 - NO>>> This bulletin has been completed. Use inspection LOP (25-01-85-93) to close the active RRT.

PARTS REQUIRED:

Qty.	Part No.	Description
1	68352976AA	Knock Sensor Heat Shield
1	68426892AA	Harness Connector Backshell

REPAIR PROCEDURE:

1. Remove knock sensor connector and crankshaft position sensor connectors, move branch rearward over the exhaust catalyst to ease removal of backshell. See (Fig. 1) for locations.
2. Remove the backshell from the knock sensor (Fig. 2) .

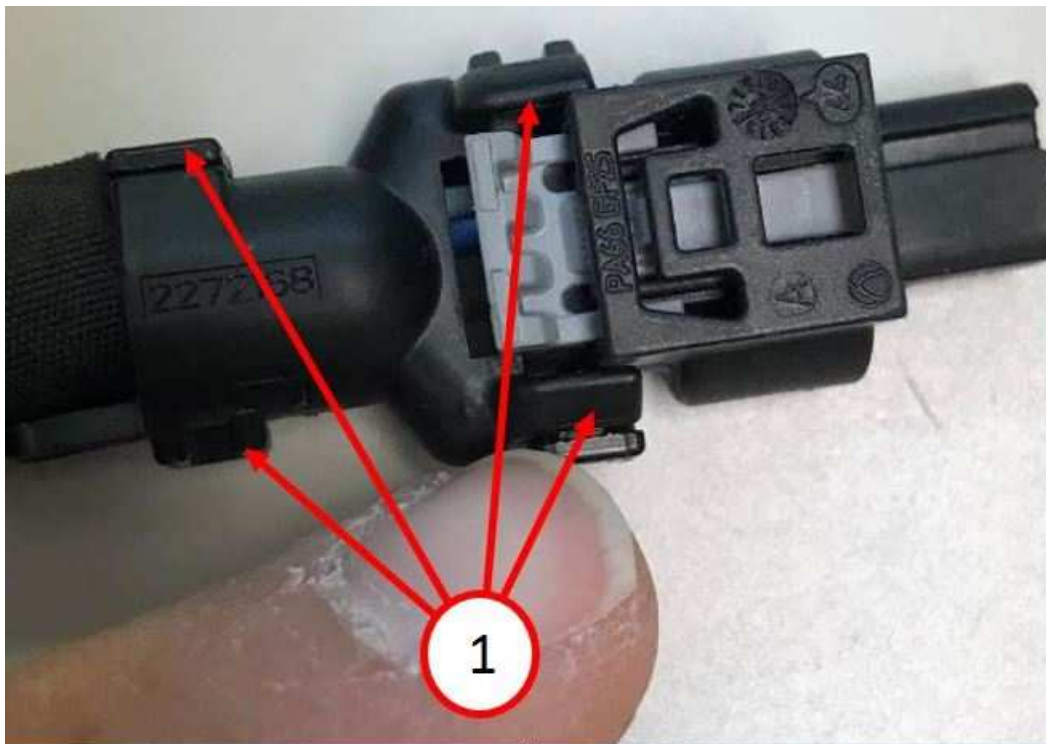


Fig. 2

Original Knock Sensor Backshell Attachment Points (Knock Sensor Shown Off Engine)

1 - Backshell attachment points

3. Install new backshell (P/N 7806995) on knock sensor (Fig. 3) .



Fig. 3

New Knock Sensor Backshell

4. Reinstall the connectors for crank sensor and knock sensor. Ensure the connectors are fully seated.

5. Reinstall the heat shield on the crank sensor (Fig. 4) .

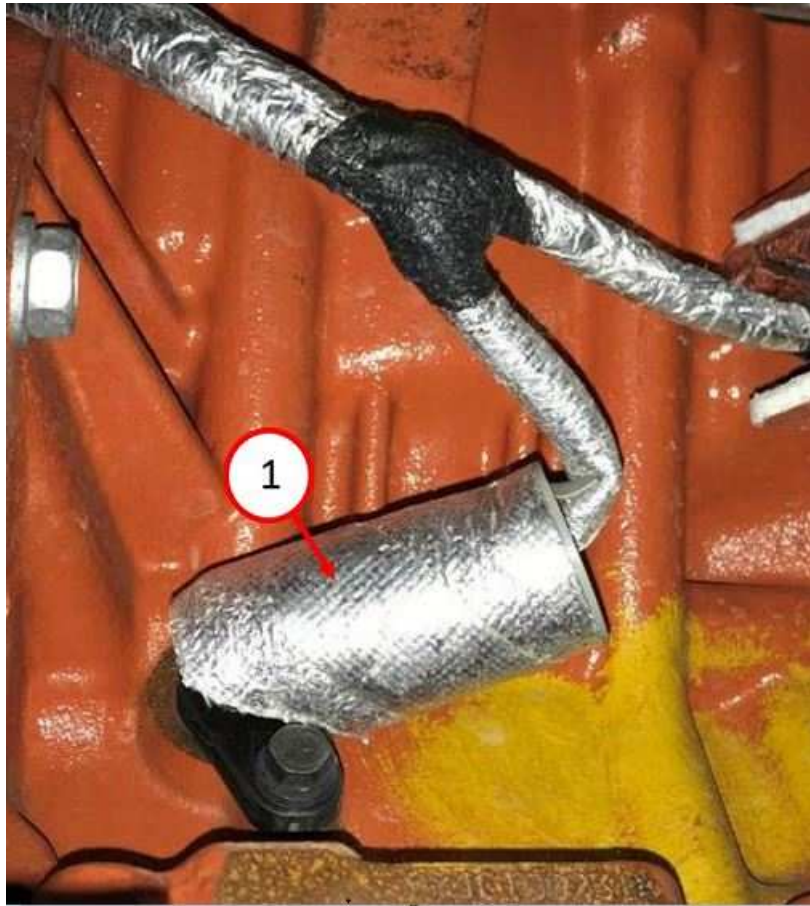


Fig. 4
Crankshaft Position Sensor Heat Shield

1 - Crankshaft Position Sensor Heat Shield

6. Install the knock sensor heat shield (Fig. 5) .

NOTE: Whether the heat shield is damaged or good, replace the heat shield with the new part provided.

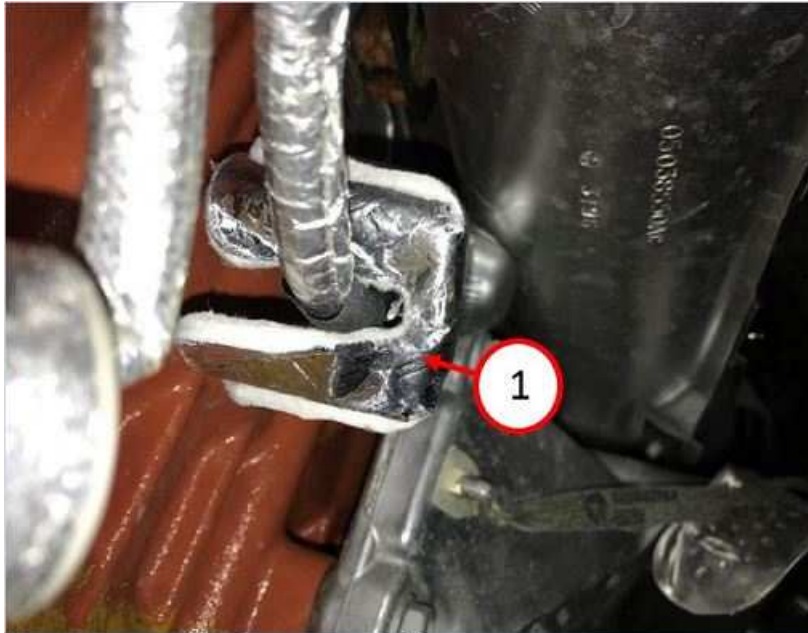


Fig. 5
Knock Sensor Heat Shield

1 - Knock Sensor Heat Shield

- Press down toward the connector to clip the heat shield onto the connector cover. You should hear or feel it clip on.

7. Confirm that the heat shield is fully seated.

- Do an up or down motion on the heat shield on the connector/wiring harness axial direction to confirm the lower clip is in position.

NOTE: There should be a slight amount of movement allowed. About 1 mm to 1.5 mm (1/16 inch).

- Verify that the lower clips are fully engaged or use a flashlight to see the clip is secured on the connector backshell (Fig. 6) .

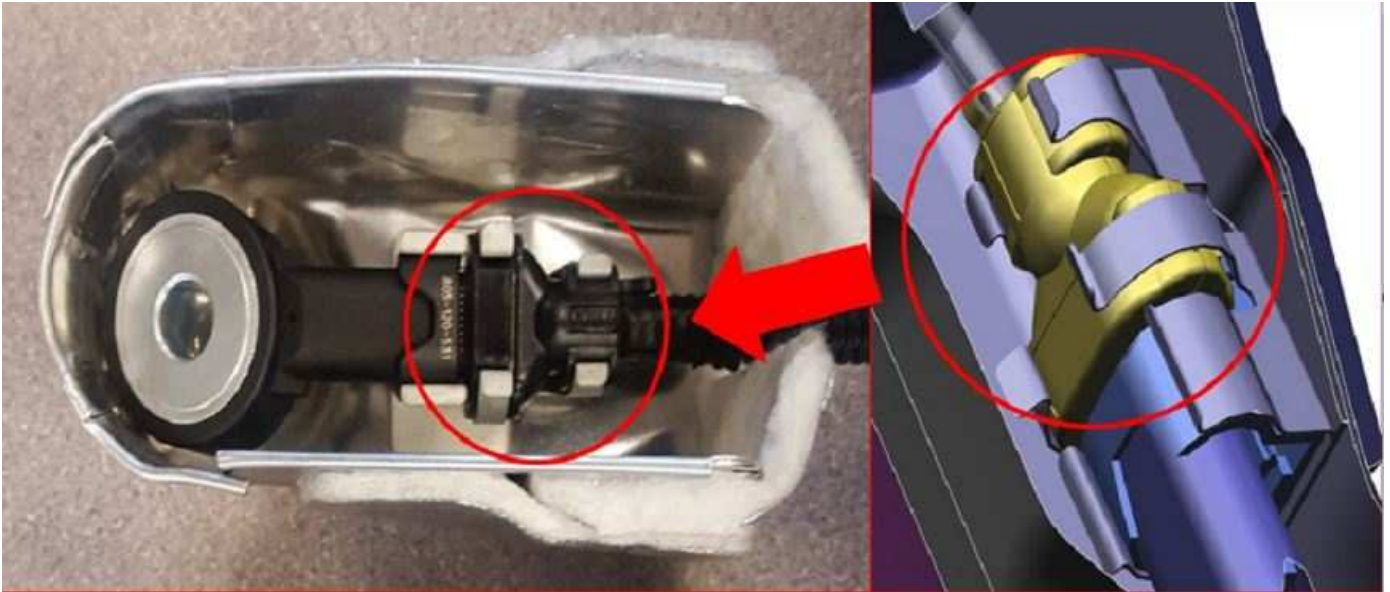


Fig. 6

Knock Sensor Heat Shield Attached to Back Cover (Knock Sensor Shown Off Engine)

8. Start the vehicle. Allow it to run for 10 seconds, then increase the RPM to 2500 for 5 seconds.
9. Using a scan tool (WiTech), check vehicle for Diagnostic Trouble Codes (DTCs).
10. Are there any DTCs present?
 - YES>>> repair and retest. Normal diagnosis should be performed.
 - NO>>> This bulletin has been completed.
11. Clear any DTCs that may have been set in any module.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
25-01-65-93	Knock Sensor Electrical Connector and Heat Shield - Inspect (2 - Skilled)	1 - Engine Repair and Performance	0.2 Hrs.
25-01-65-94	Knock Sensor Electrical Connector and Heat Shield - Inspect and Replace (2 - Skilled)	1 - Engine Repair and Performance	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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