SERVICE BULLETIN

NUMBER: 08-002-16

GROUP: Electrical

DATE: January 09, 2016

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

SUBJECT:
Malfunction Indicator Lamp (MIL) Illumination Diagnostic Trouble Code (DTC) P0113

OVERVIEW:
The wiring at the connector of the Intake Air Temperature (IAT) sensor may be compromised due to wire strain causing DTCs. This bulletin involves adding a jumper harness on the IAT sensor to reduce this strain.

MODELS:

2015	(BU)	Jeep Renegade
2016	(FB)	Fiat 500X

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA.

NOTE: This bulletin applies to vehicles built on or after January 08, 2015 (MDH 0108XX) and on or before November 04, 2015 (MDH 1104XX) equipped with a 2.4L engine (Sales Code ED6).

SYMPTOM/CONDITION:
Some customers may experience a MIL illumination. Upon further inspection, the technician may find P0113 Intake Air Temperature Sensor 1 Circuit High. Installing the jumper harness will help prevent IAT issues from occurring.

DIAGNOSIS:
Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the technician finds the DTC, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	68301680AA	Wiring Kit, Jumper



Fig. 1 IAT Jumper

REPAIR PROCEDURE:

1. Is DTC P0113 active or stored?
   a. Yes >>> Perform normal diagnostics before performing this repair procedure.
   b. No >>> Proceed to step Step #2.
2. Open the hood and disconnect the negative battery cable.
3. Remove the engine cover.

4. Disconnect the IAT and lower connectors, (Fig. 2).



Fig. 2 Location Of IAT Connector

1 - IAT Connector

2 - Lower Connector

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5. Reposition both connectors so that the wires are under the black tube, as shown in (Fig. 3).



Fig. 3 Route Connectors Under Black Tube

1 - IAT harness

2 - Black Tube

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6. Reconnect the lower connector.
7. Position the opening of the IAT connector away from the engine, as shown in (Fig. 4).

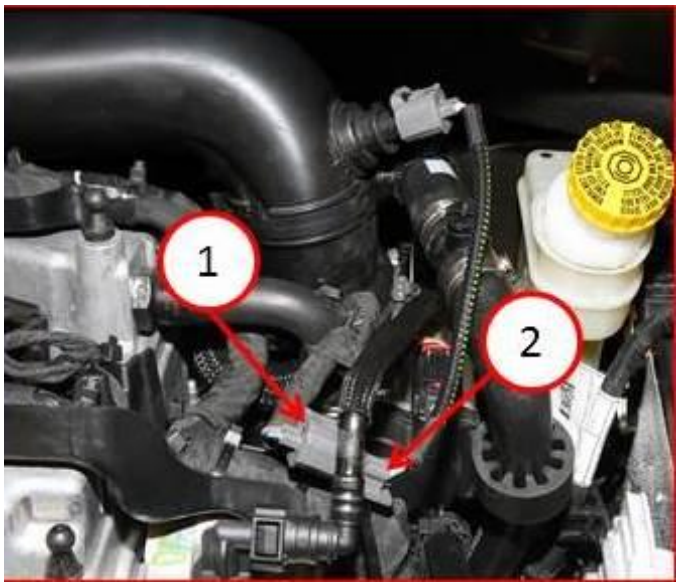


Fig. 4 IAT Jumper And Connector

1 - Old IAT Conntor

2 - New IAT Connector

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8. Connect one end of the jumper harness to the old IAT connector and then the other end to the IAT sensor.

9. Fasten the jumper harness to the main harness, as shown in (Fig. 5).



Fig. 5 Location Of Jumper Fastened To Harness

1 - Fasten Jumper On The Main Harness

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10. Connect the negative battery cable.
11. Clear any DTCs that may have been set in any module due this repair procedure.

POLICY:
Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-94-CC-94	Wiring Harness, Engine - Install Intake Air Temperature Sensor (IAT) Jumper (2 - Skilled)	8 - Engine Performance	0.2 Hrs.

FAILURE CODE:

ZZ	Service Action