



**NUMBER:** 09-003-16

**GROUP:** Engine

**DATE:** January 23, 2016

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**SUBJECT:**

Turbocharger Replacement

**OVERVIEW:**

This bulletin involves replacing the turbocharger and repositioning the control solenoid valve air intake filter.

**MODELS:**

2015 - 2016 (BU) Jeep Renegade

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

**NOTE: This bulletin applies to vehicles built on or before November 21, 2015 (MDH 1121XX) equipped with 1.6L ECO Turboboost Engine (sales code EJK).**

**SYMPTOM/CONDITION:**

The customer may describe a drop in vehicle performance and/or a malfunction indicator light (MIL) illuminated.

The following Diagnostic Trouble Codes (DTCs) will also be stored or active:

- P2564 - 00 - Variable Geometry Turbocharger Position Sensor Deviation Signal Amplitude Less Than Minimum.
- P2565 - 00 - Variable Geometry Turbocharger Position Sensor Deviation Signal Amplitude Greater Than Maximum.

**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.

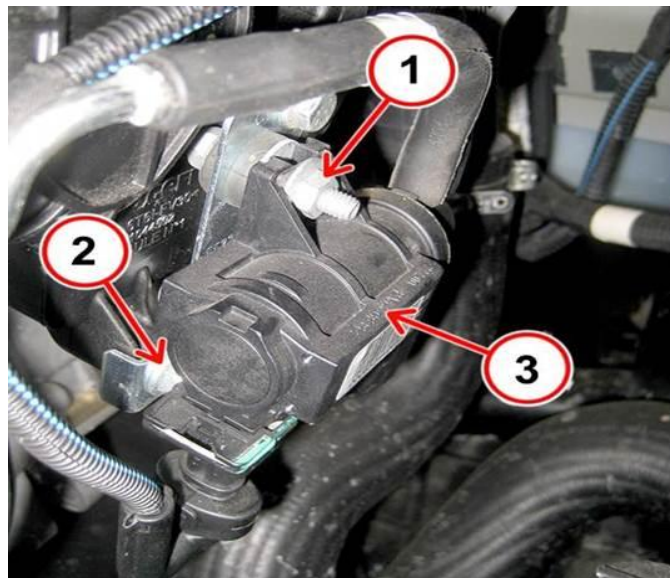
If the customer describes the symptom/condition listed above or if the technician finds the DTCs, perform the Repair Procedure.

**PARTS REQUIRED:**

Qty.	Part No.	Description
1	68283114AA	Assembly, Turbocharger
1	68283121AA	Gasket, Turbocharger
3	06509980AA	Nut, Flange M8
2	68166248AA	Gasket, Exhaust
2	68101424AA	Nut, M8
2	06107247AA	Washer
1	55274438	VGT valve air intake kit

**REPAIR PROCEDURE:**

1. Replace the Turbocharger assembly if the symptom/conditions or the above DTCs are present. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 09 - Engine, 1.6L/2.0L Diesel/Turbocharger System/Turbocharger/Removal and Installation.
2. Remove the control solenoid valve (3) without disconnecting the electrical connection (Fig. 1).



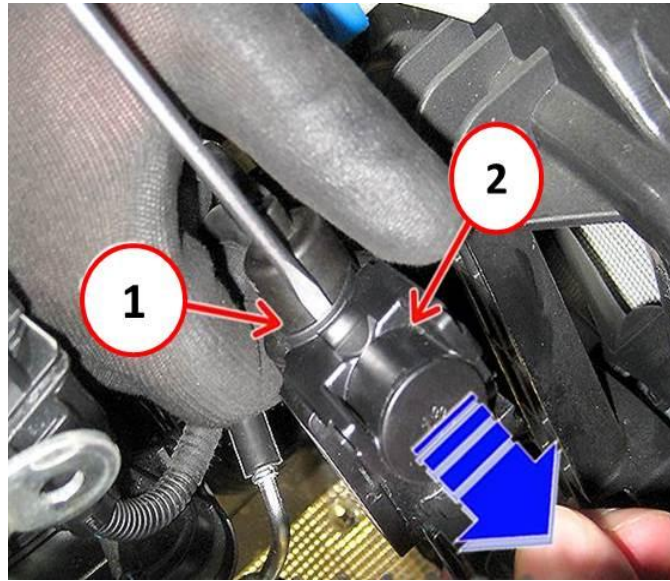
**Fig. 1 Control Solenoid Valve**

1 - Nut

2 - Nut

3 - Control solenoid valve

- Carefully unseat the air filter (1) from the solenoid valve (2) (Fig. 2) and discard the filter.



**Fig. 2 Air Filter Removal**

- 1 - Air filter
  - 2 - Solenoid valve
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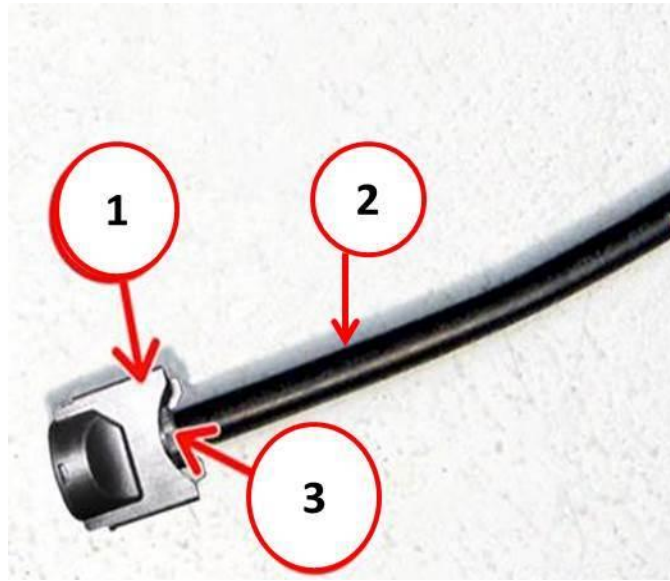
Kit components include (Fig. 3):



**Fig. 3 Components In Kit**

- 1 - Adapter
  - 2 - Filter
  - 3 - Pipe
  - 4 - Clip
  - 5- Clip
  - 6 - Protective sheath
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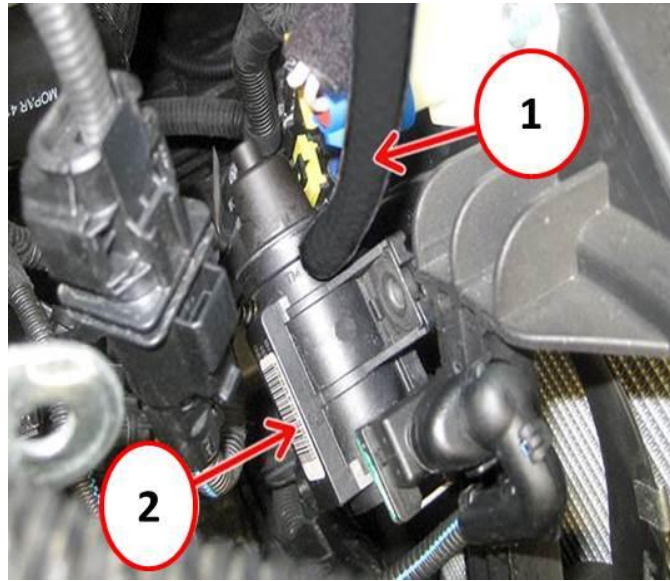
4. Mount the components from the parts kit which is composed of a new filter (1), the adapter (3), the pipe (2) and the protective sheath as shown below (Fig. 4).



***Fig. 4 Connection Of Components***

- 1 - Filter
  - 2 - Pipe with protective sheath
  - 3 - Adapter
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5. Connect the complete new pipe (1) to the solenoid valve (2), then reinstall the solenoid valve (2) into the original position and tighten the nuts ([Fig. 5](#)).



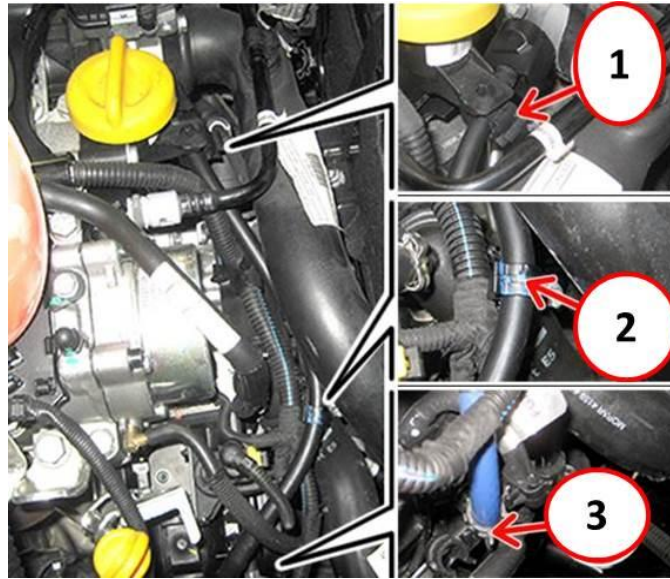
***Fig. 5 Reposition Of Solenoid***

1 - New pipe

2 - Control solenoid valve

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- 6. Position the pipe on the engine as shown below (Fig. 6) and secure it with the two clips (1&2) from the kit and the existing clip (3) already present on the engine.



**Fig. 6 Proper Position On Engine**

- 1 - Clip from kit
- 2 - Clip from kit
- 3 - Existing clip

- 7. Clear any DTCs that may have been set.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
09-44-01-96	Turbocharger - Replace, Control Solenoid Valve Air Intake Filter - Relocate (3 - Highly Skilled)	1 - Engine Repair	1.6 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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