



NUMBER: 09-010-20

GROUP: 09 - Engine

DATE: July 2, 2020

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SUBJECT:

Engine Oil Vapor Inlet Tube Modification - P2173-00 - Air Leakage In Manifold (Signal Compare Failure)

OVERVIEW:

This bulletin involves installing a modified oil vapor inlet tube.

MODELS:

2017 - 2018 (BU) Jeep Renegade

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

NOTE: This bulletin applies to vehicles equipped with a 1.4L I4 MultiAir Turbo Engine (Sales Code EAM).

SYMPTOM/CONDITION:

The customer may describe a loss in vehicle performance (engine jerking or limp mode) and/or a malfunction indicator light (MIL) illuminated.

The following Diagnostic Trouble Code (DTC):

- P2173-00 - Air Leakage In Manifold (Signal Compare Failure).

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, 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 DTC, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	Mopar Part# 68521530AA EMEA Local Sourced Part# 6000630077	Service Kit, Oil Vapor Inlet Tube

REPAIR PROCEDURE:

1. Remove the engine cover. Refer to the detailed service procedures available in DealerCONNECT> Service Library under: Service Info> 09 - Engine, 1.4L I4 16V Turbo / Cover, Engine / Removal.
2. Remove the clamps, then remove the oil vapor inlet tube (Fig. 1) .

NOTE: The clamp at the vapor separator and tube can be discarded; the clamp at the engine must be kept and reused for reassembly (Fig. 1) .

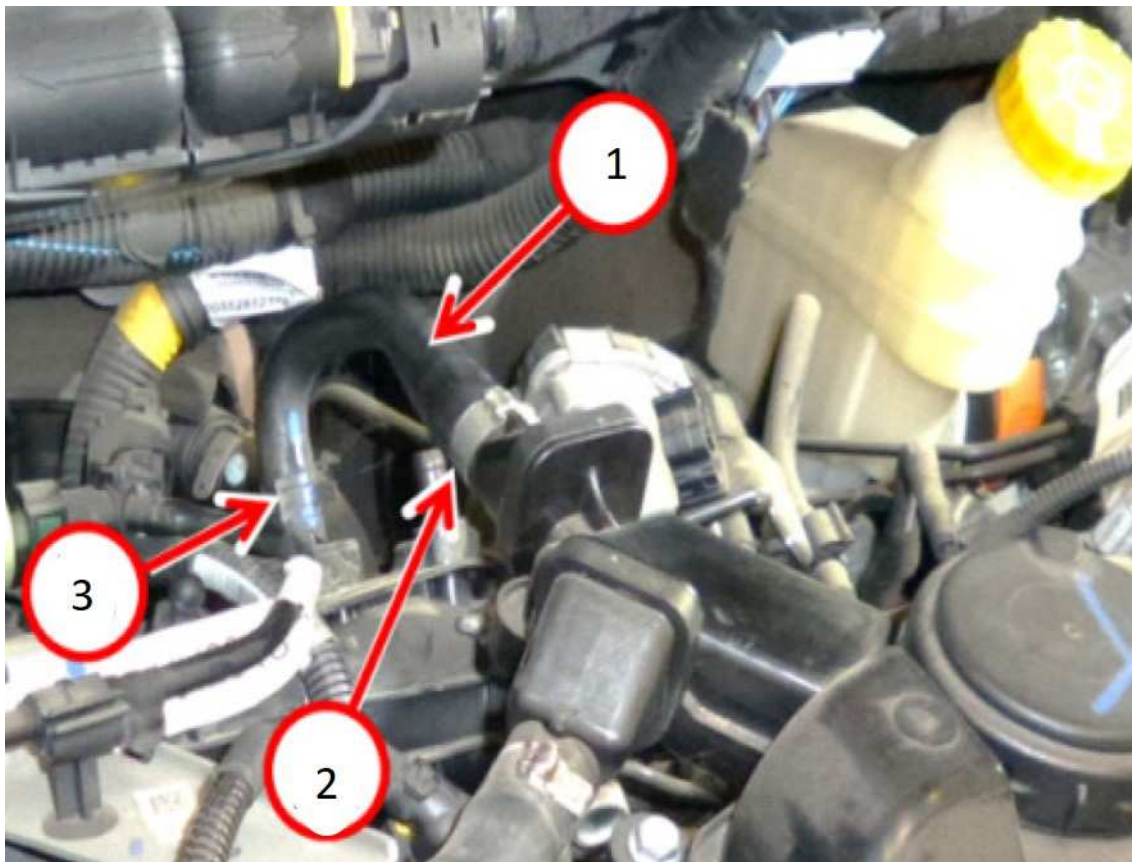


Fig. 1
Oil Vapor Inlet Tube

- 1 - Oil Vapor Inlet Tube
- 2 - Clamp to be Discarded Do Not Reuse
- 3 - Clamp to be Reused Do Not Discard

3. Insert the restrictor with larger hole into the tube, making sure that the side with the smaller hole is towards the connector on the intake air chamber (Fig. 2) . Take great care when inserting the restrictor into the tube.
4. The restrictor must be inserted into the tube to a depth of 26-27 mm (1 in) (Fig. 2) .
5. The side with the smaller hole must be towards the intake air chamber and the side with the larger hole must be towards the oil vapor separator (Fig. 2) .
6. The restrictor must then be clamped in position with a band, and the insulating sheath must be fixed to the tube as described below (Fig. 2) .

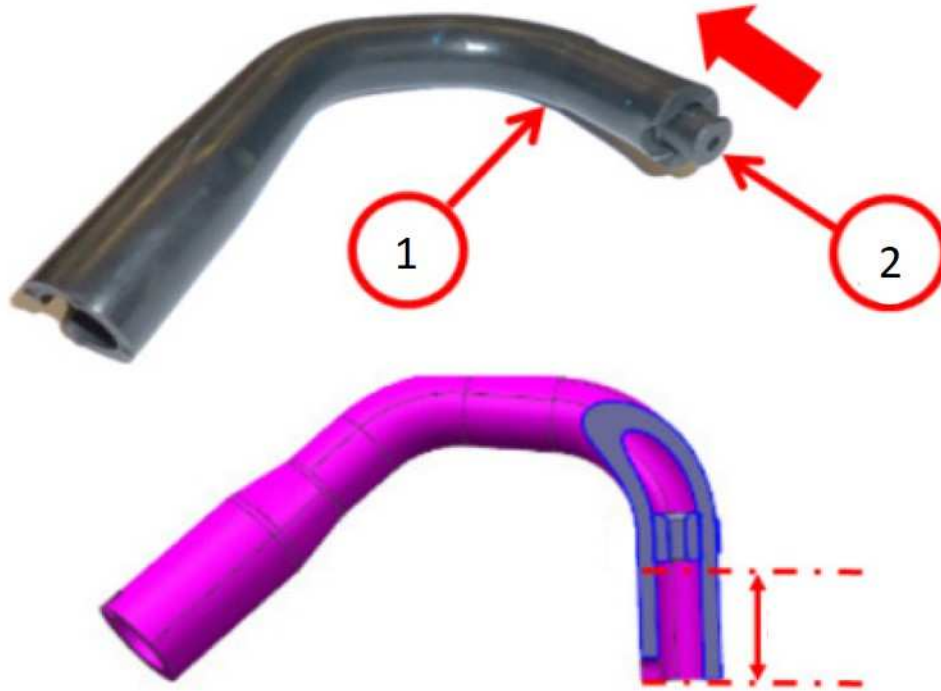


Fig. 2
Oil Vapor Restrictor

1 - Oil Vapor Tube
2 - Restrictor

7. Install the insulating sheath over the tube so that the opening is at the restrictor inserted previously (Fig. 3) .

NOTE: Use a soapy water solution to help the sheath slide.



Fig. 3
Oil Vapor Sheath

- 1 - Clamp Opening in the Sheath
 - 2 - Sheath
 - 3 - Sheath Installed with Clamp Opening Hole
 - 4 - Oil Vapor Inlet Tube
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8. Perform the steps shown in the boxes below in sequence (Fig. 4) :

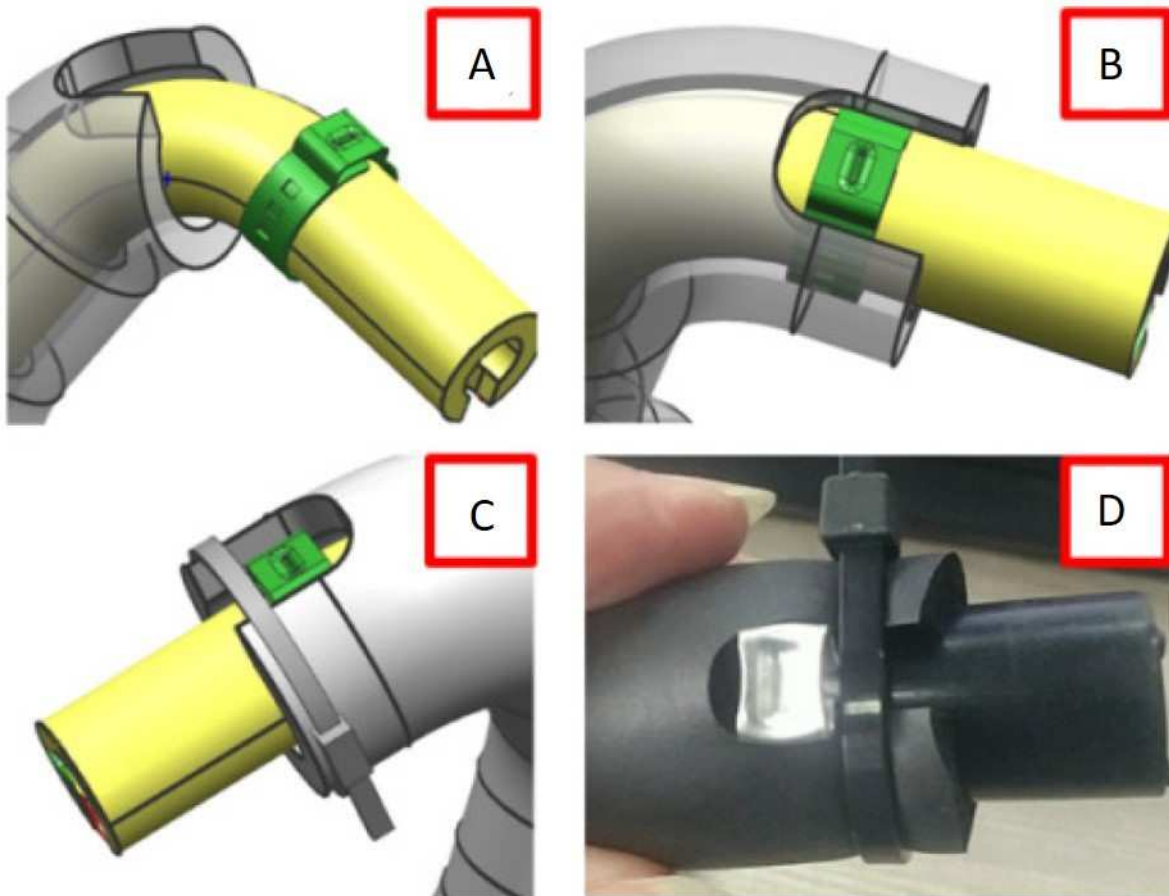


Fig. 4
Clamping Procedure

- Install the restrictor clamp and tighten it to the restrictor in the tube.
- Slide the sheath so that the clamp is within the opening.
- Install the cable tie strap on the edge of the sheath.
- Tighten the cable tie strap to the sheath onto the tube, with the restrictor clamp protruding from the opening as shown in detail.

9. Install the new engine oil vapor inlet tube with restrictor as follows (Fig. 5) :
- Install the tube to the intake air chamber and secure it with the clamp that was previously removed and saved (Fig. 5) .
 - Install the tube to the oil vapor separator and secure it with the new clamp (Fig. 5) .

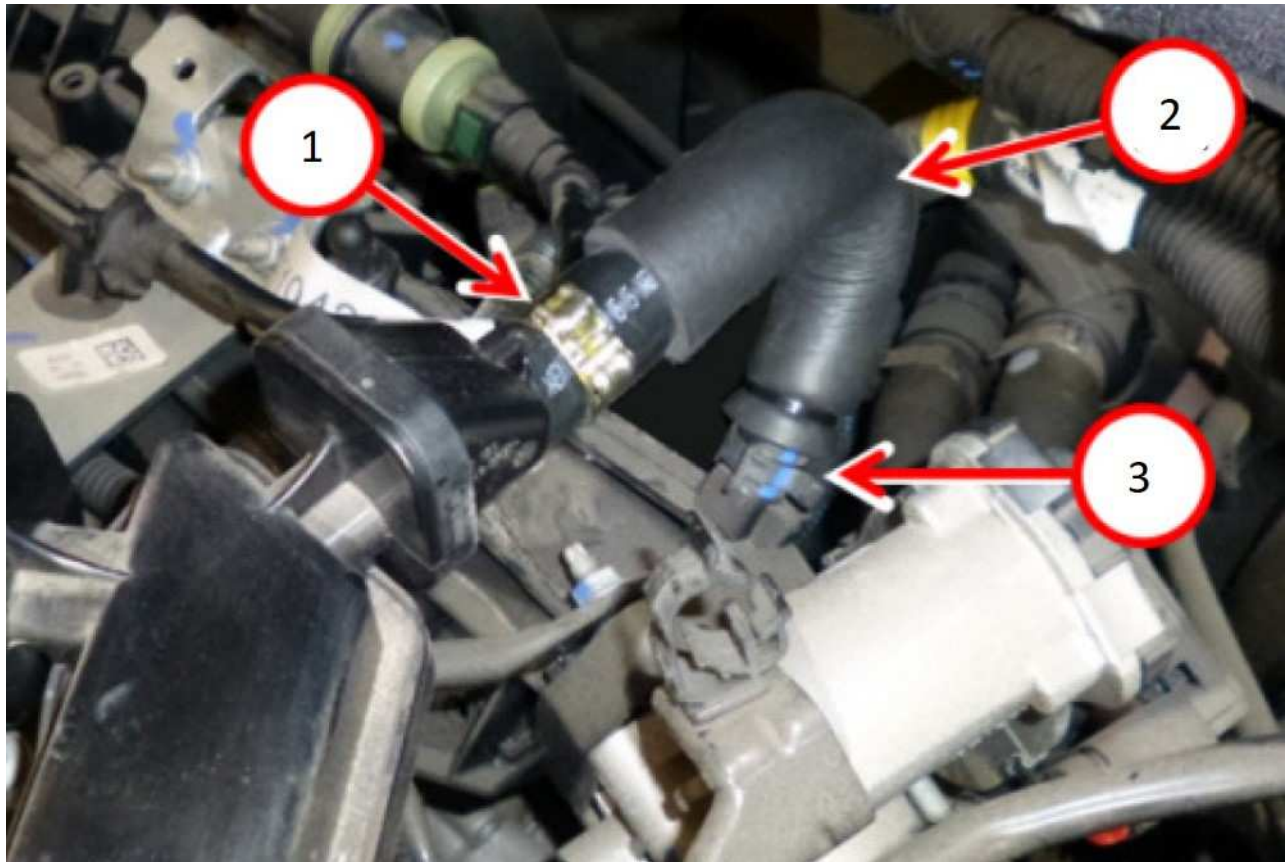


Fig. 5
Oil Vapor Inlet Tube

- 1 - New Clamp at the Vapor Separator
2 - Oil Vapor Inlet Tube
3 - Clamp to be Reused at the Engine

10. Install the engine cover. Refer to the detailed service procedures available in DealerCONNECT> Service Library under: Service Info> 09 - Engine, 1.4L I4 16V Turbo / Cover, Engine / Installation.
11. Clear any DTCs, using wiTECH application will automatically present all DTCs and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
09-20-26-90	Install Vapor Inlet Tube Service Kit (0 - Introduction)	1 - Engine Repair and Performance	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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