



# SERVICE BULLETIN

Classification: EC16-034b	Reference: NTB17-082b	Date: January 29, 2019
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## NISSAN; DTC P0456 CAUSED BY EVAP LEAK AT VENT CONTROL VALVE O-RING

This bulletin has been amended. See Amendment History on the last page.  
Please discard previous versions of this bulletin.

**APPLIED VEHICLES:** All model year 2008 and newer Nissan vehicles except LEAF and Titan XD with V8 diesel engine

### IF YOU CONFIRM

The MIL is ON in an **APPLIED VEHICLE** with DTC P0456 (EVAP VERY SML LEAK)

### AND

- DTC P0456 is not caused by a loose fuel fill cap (refer to NTB13-097).
- An EVAP leak has been detected where the vent control valve mounts to the canister.
- The vent control valve O-ring seal is determined to be the cause.

### ACTION

1. **DO NOT REPLACE** the vent control valve.
2. Replace the vent control valve **O-ring seal (O-ring)**.
  - Refer to **SERVICE PROCEDURE**, on the next page.

**IMPORTANT:** The purpose of ACTION, above, is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

## SERVICE PROCEDURE

### 1. Replace the O-ring.

- To access the O-ring, refer to the appropriate section in the Electronic Service Manual (ESM) of the **APPLIED VEHICLE** for vent control valve removal and installation.
- This O-ring is now available separately (see **PARTS INFORMATION**).
- When installing, do not add any lubrication to the O-ring.
- Seat the O-ring all the way down as shown on page 4, Figure 7.
  - Having the O-ring seated all the way down will assure it is not twisted or rolled over.
- Refer to the pictures on pages 3 and 4 for additional installation information.

### CAUTION:

- Make sure the surfaces that the O-ring comes in contact with are clean.
- When installed, make sure the O-ring is not twisted or rolled over.
- Verify the repair is complete by checking for leaks with a “smoke” leak detection machine or CONSULT-III plus (C-III plus).
  - If a “smoke” leak detection machine is used, follow the manufacturer’s operating instructions.
  - If C-III plus is used:
    1. Confirm the fuel filler cap is secure.
      - Vehicles **with** a service port see page 5.
      - Vehicles **without** a service port see page 6.
    2. Using Active Test, close the vent control valve.
    3. Apply pressure using J-42909 until the bar graph reaches about halfway.
    4. Monitor the bar graph for 10 minutes.

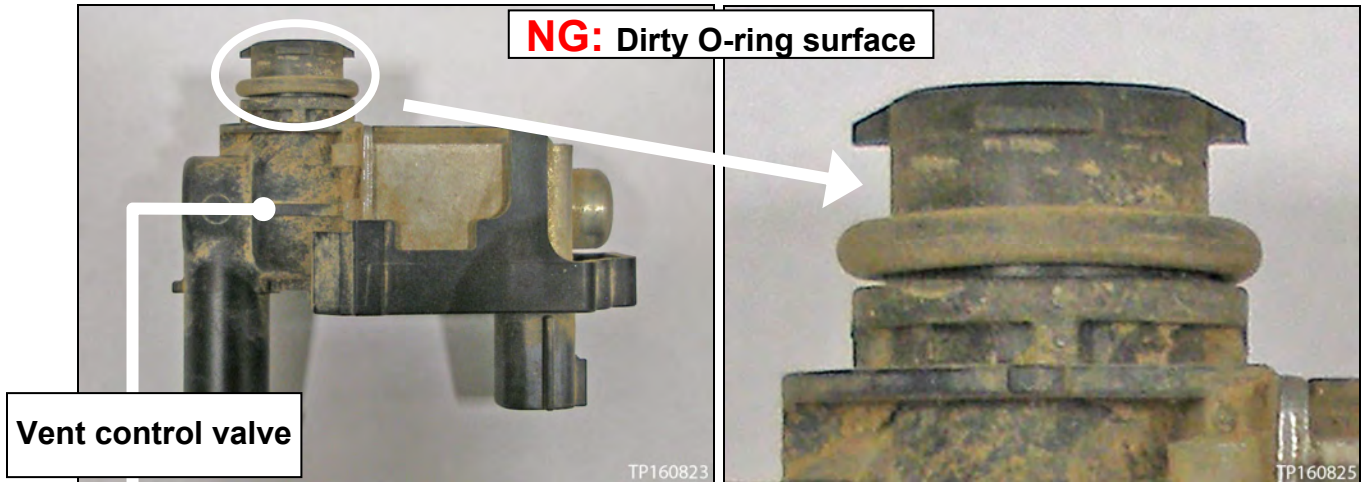


Figure 1

Figure 2

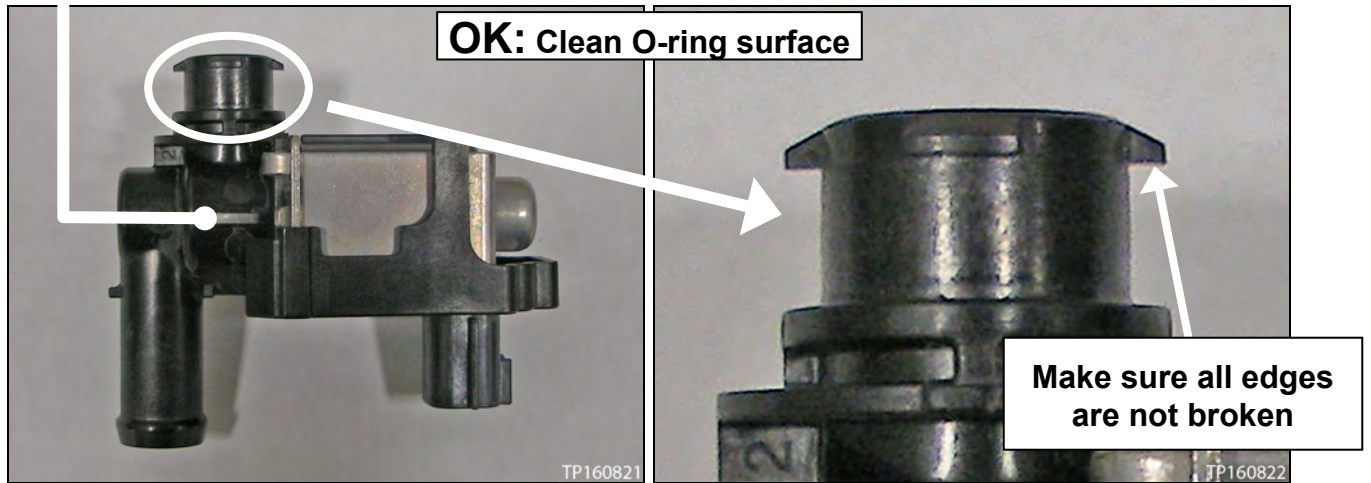


Figure 3

Figure 4

Where vent control valve mounts in canister

Canister

This surface must be clean all around

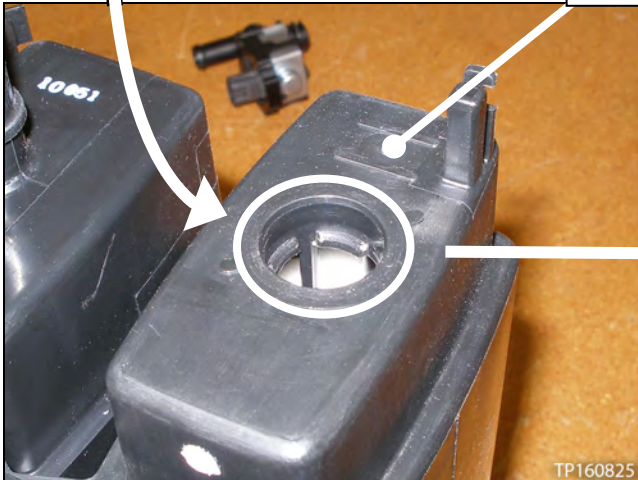


Figure 5

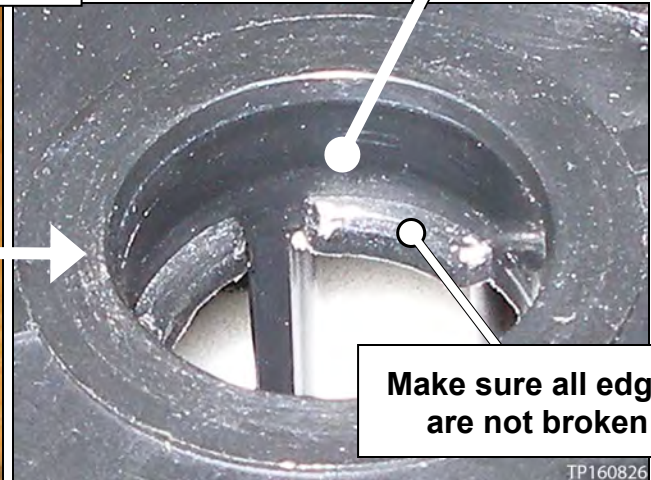


Figure 6

When fully seated (no gaps), O-ring is not twisted or rolled over

O-ring

No gap all around

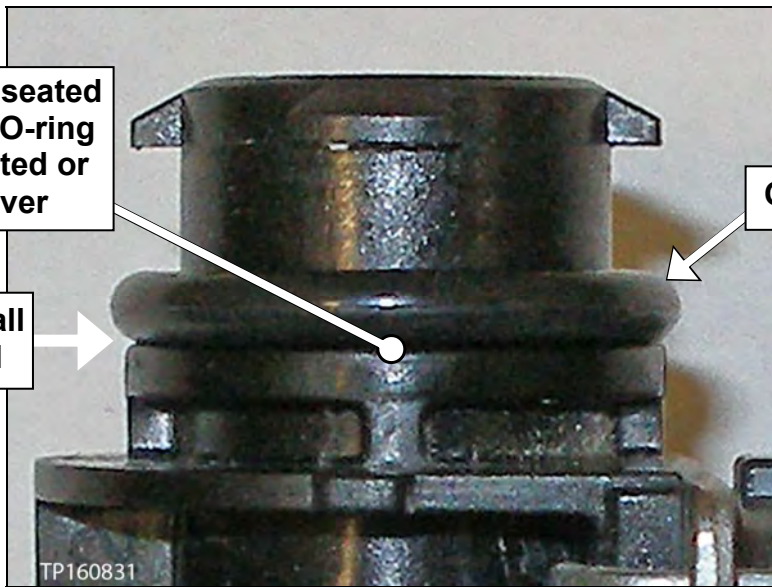


Figure 7

## Models with a Service Port (2017 and older)

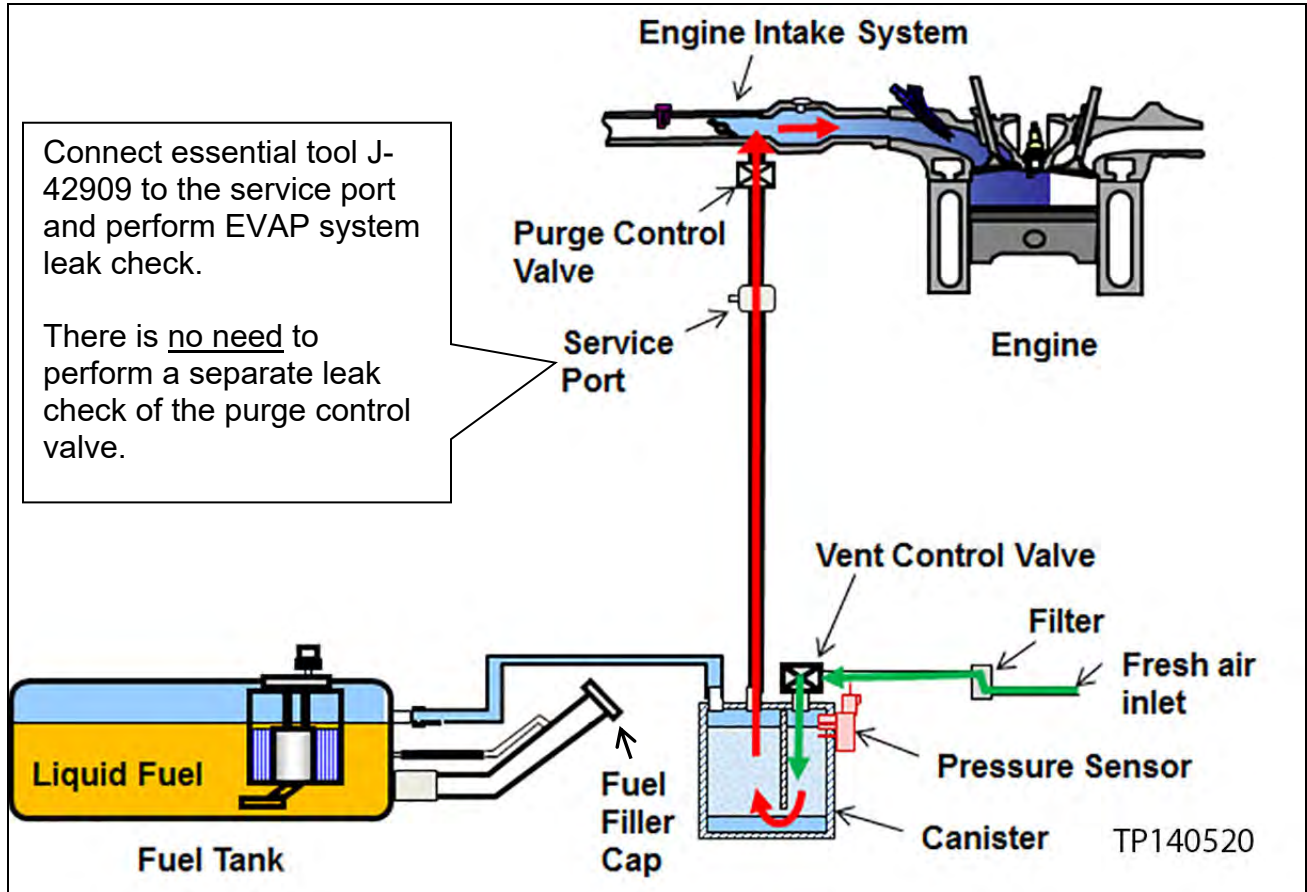


Figure 8

### EVAP System Basic Operation

- Fuel vapor flows from fuel tank into canister (light blue area)
- Vapor flows from canister through purge control valve (red line)
- Fresh air flows into canister (green line)



**Models without a Service Port  
(2018 and Newer)**

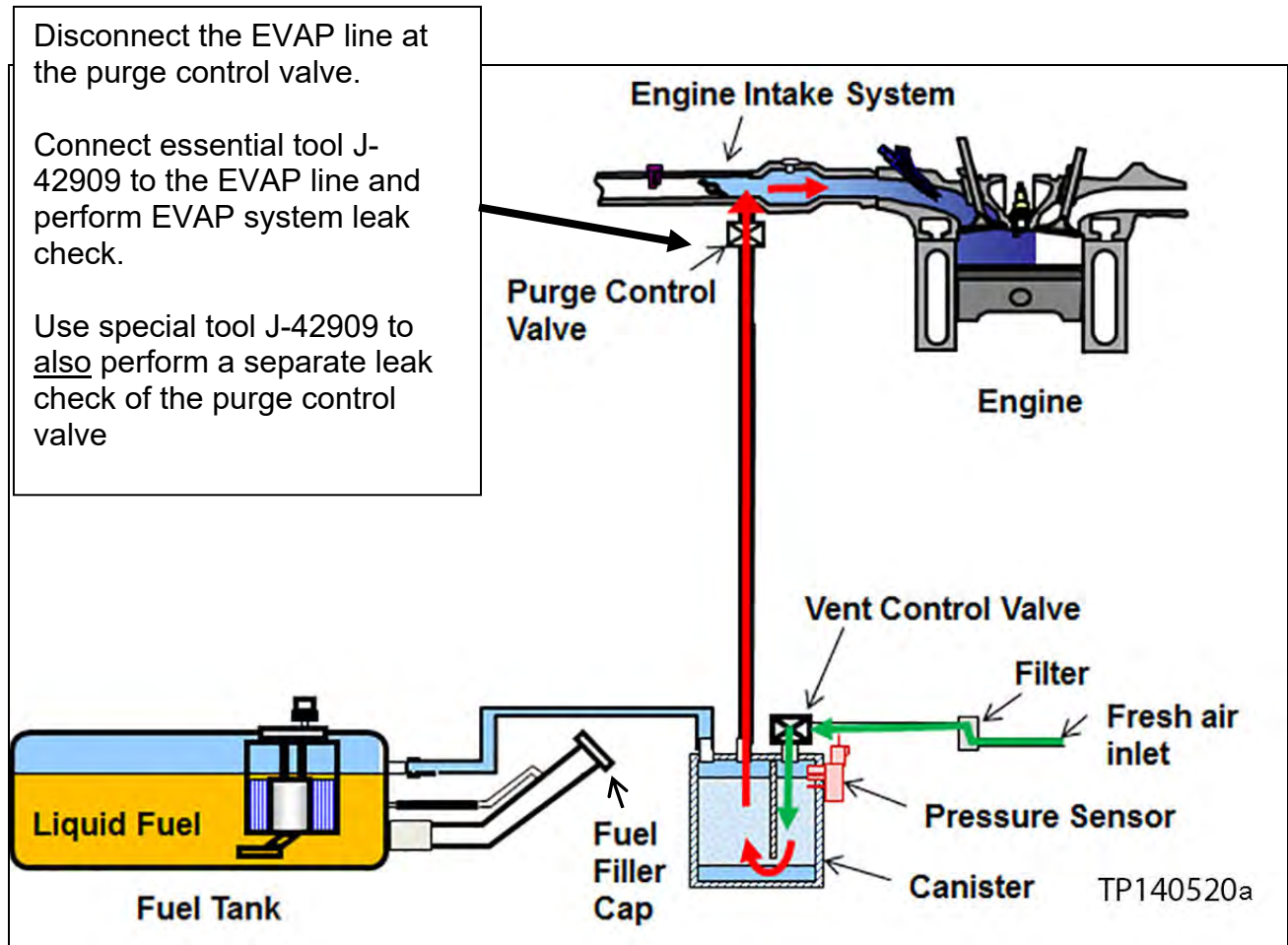


Figure 9

**EVAP System Basic Operation**

- Fuel vapor flows from fuel tank into canister (light blue area)
- Vapor flows from canister through purge control valve (red line)
- Fresh air flows into canister (green line)

**PARTS INFORMATION**

DESCRIPTION	P/N	QUANTITY
SEAL O-RING	16618-JF00A	1

## CLAIMS INFORMATION

Submit a Primary Part (PP) line claim using the following claims coding:

DESCRIPTION	MODEL	PFP	OP CODE	SYM	DIA	FRT
Replace Vent Control Valve O-Ring	350Z Coupe and Roadster (Z33)	16618-JF00A	FX57AA	HD	32	0.3
	Cube (Z12)					
	GTR (R35)					
	Juke (F15)					
	Murano (Z51)					
	Quest (E52)					
	Rogue (S35)					
	Rogue Sport (J11)					
	Altima (L33)					
	Frontier (D40)					
	Kicks (P15)					
	Micra (K13)					
	Maxima (A36)					
	Murano (Z52)					
	NV 1500/2500/3500/Passenger (F80)					
	NV200 (M20) and TAXI					
	Pathfinder (R52)					
	Quest (V42)					
	Rogue (T32)					
	Sentra (B16)					
	Sentra (B17)					
	Titan (A60)					
	Titan and Titan XD (A61)					
Versa NOTE (E12)						
Versa (N17)						

**CLAIMS INFORMATION (continued)**

DESCRIPTION	MODEL	PFP	OP CODE	SYM	DIA	FRT
Replace Vent Control Valve O-Ring	370Z Coupe and Roadster (Z34)	16618-JF00A	FX57AA	HD	32	0.5
	Altima Sedan and Coupe (L32)					
	Armada (TA60)					
	Armada (Y62)					
	Maxima (A35)					
	Versa (C11)					0.7
	Altima (L34)					
	Pathfinder (R51)					
	Xterra (N50)					

**AMENDMENT HISTORY**

PUBLISHED DATE	REFERENCE	DESCRIPTION
July 21, 2017	NTB17-082	Original bulletin published
August 21, 2017	NTB17-082a	The APPLIED VEHICLES and CLAIMS INFORMATION sections have been updated
January 29, 2019	NTB17-082b	The APPLIED VEHICLES section has been updated

