



# TECHNICAL SERVICE BULLETIN

## 2.3L EcoBoost - Illuminated MIL With DTC P04F0 And/Or P144C

**21-2446**

16 December  
2021

### Model:

<b>Ford</b> 2020-2022 Explorer	Engine: 2.3L EcoBoost
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**Issue:** Some 2020-2022 Explorer vehicles equipped with a 2.3L EcoBoost engine may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble code (DTC) P04F0 and/or P144C stored in the powertrain control module (PCM). This may be due to loose or partially connected evaporative emissions (EVAP) vapor lines. To correct the condition, follow the Service Procedure to make sure the EVAP vapor lines are properly connected.

**Action:** Before completing pinpoint test (PPT) HX, follow the Service Procedure steps on vehicles that meet all of the following criteria:

- 2020-2022 Explorer
- 2.3L EcoBoost engine
- DTC P04F0 and/or P144C stored in the PCM

**Warranty Status:** Information Only.

### Repair/Claim Coding

Causal Part:	IN
Condition Code:	33

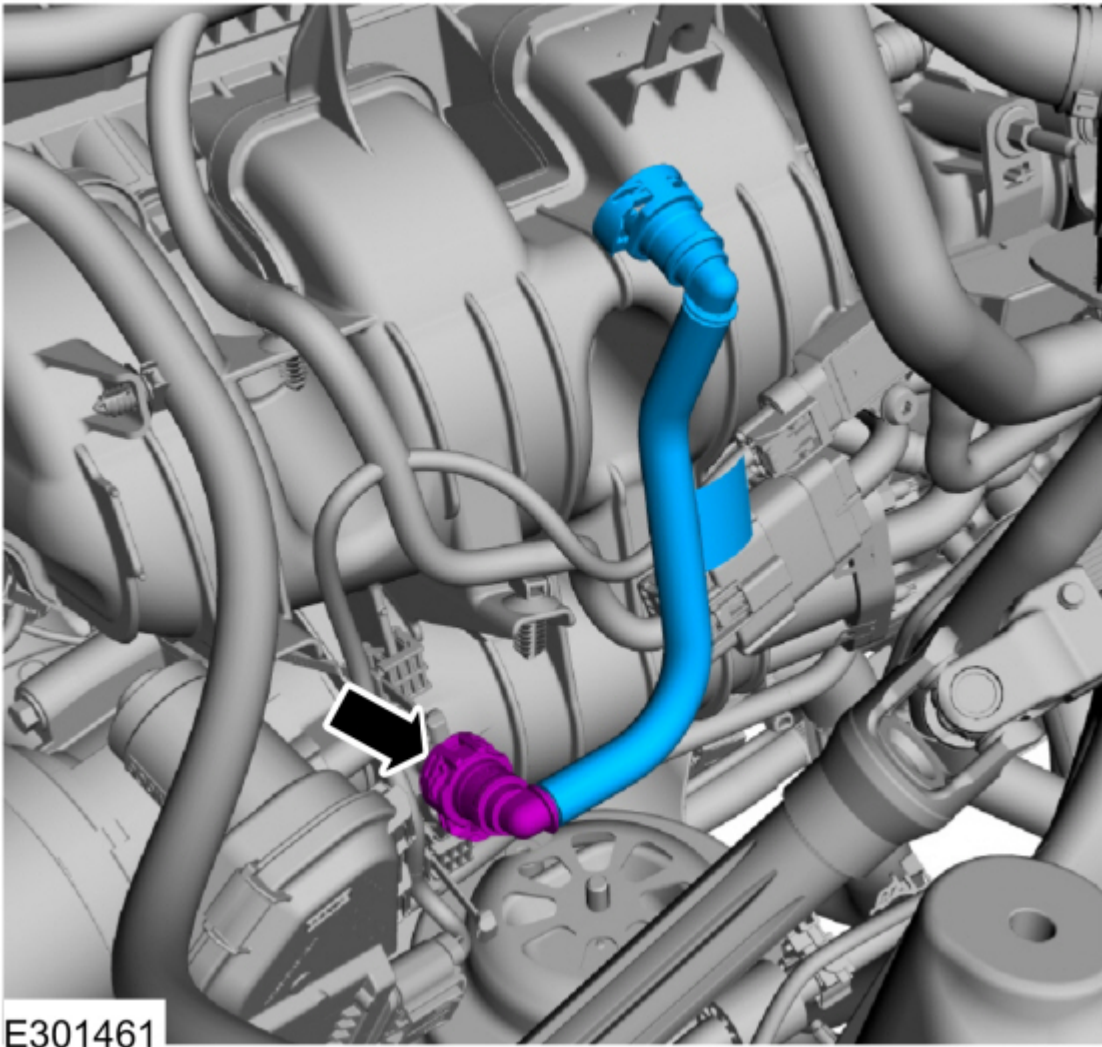
## Service Procedure

**NOTE:** All illustrations are from 2020 model year engines. Other model years are similar.

1. Visually inspect and push and pull on each of the following EVAP connections to verify a proper connection:

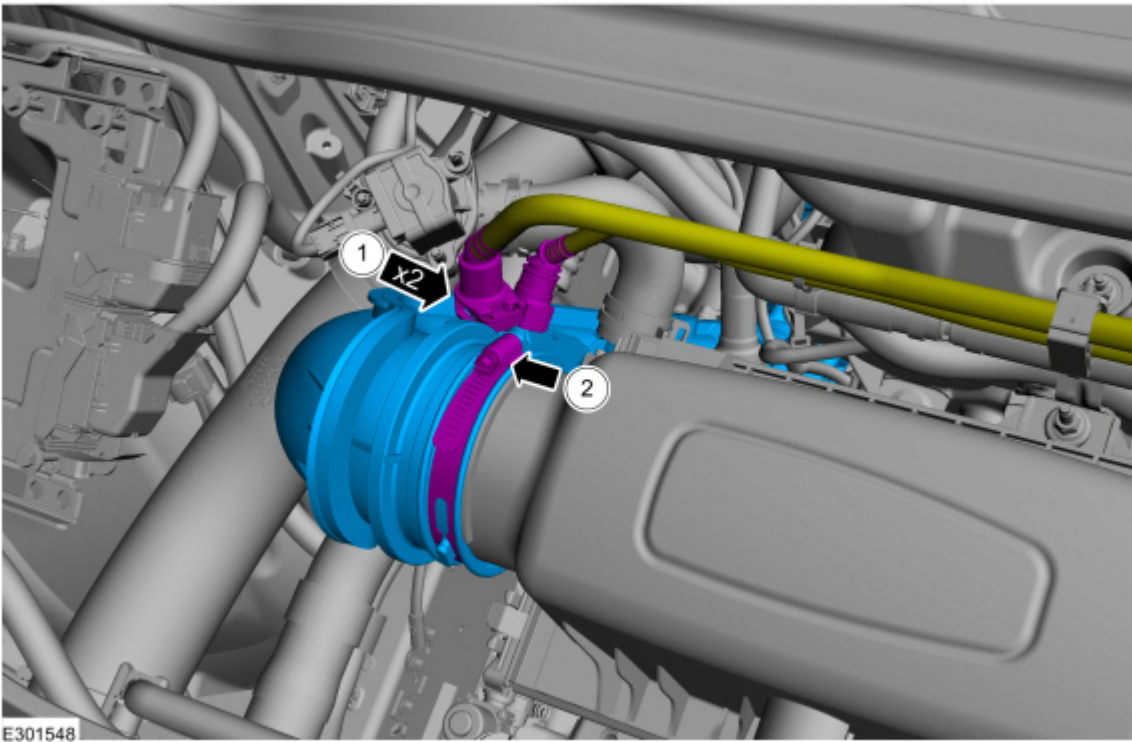
- (1). Vacuum port side and pressure port side of the ejector. (Figure 1)

Figure 1



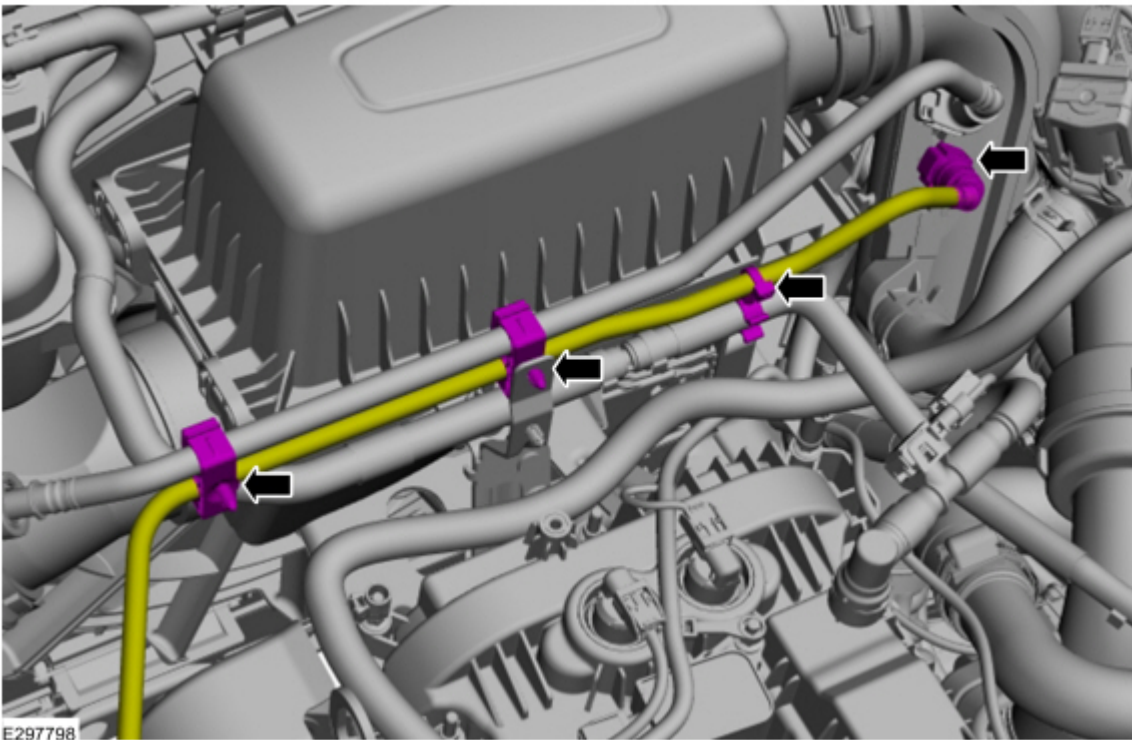
(2). Port on the air intake system (AIS) duct at throttle body inlet. (Figure 2-3)

Figure 2



E301548

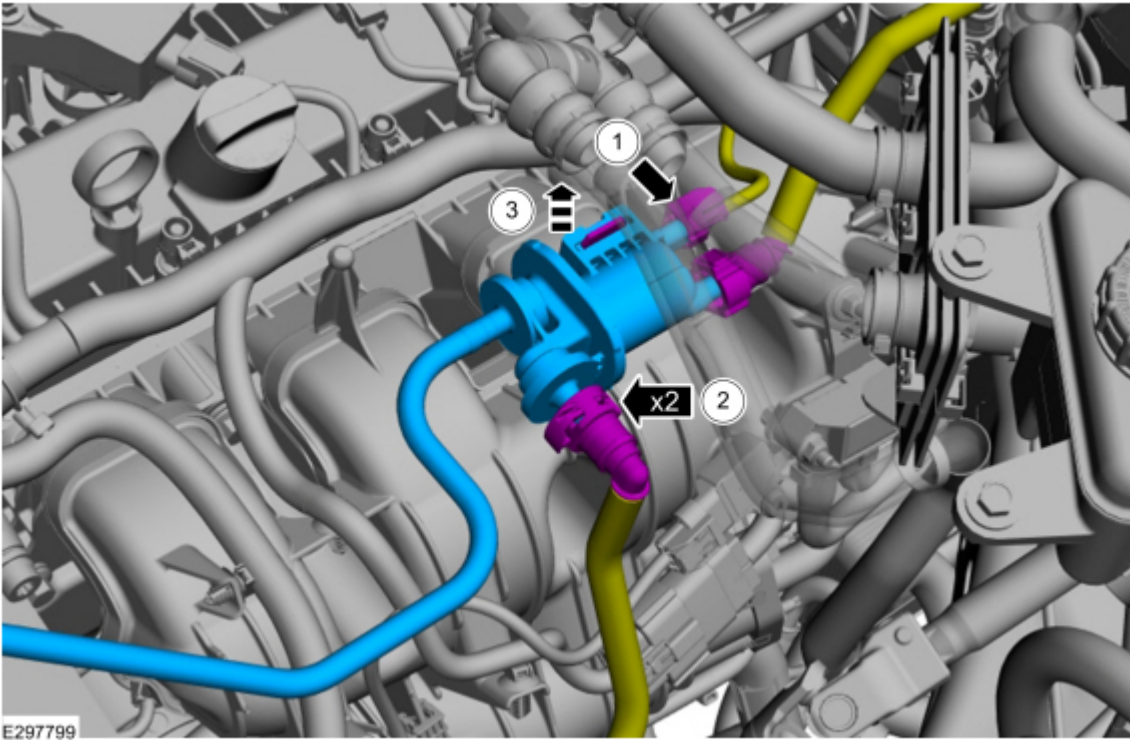
Figure 3



E297798

(3). Vacuum side of the purge valve (side port on the purge valve). (Figure 4)

Figure 4



2. If no loose or partial connections are found, refer to the Workshop Manual for normal diagnostics.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.