



Ford TSB 21-2147

Make:

Ford

Number:

21-2147

Date:

6/7/2021

Title:

MIL With Misfire DTCs/Water In Spark Plug Wells and/or Corrosion On Ignition System Components

Models:

- 2019-2021 Ranger Lariat
- 2019-2021 Ranger XL
- 2019-2021 Ranger XLT

Summary:

Some 2019-2021 Ranger vehicles may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) P0300, P0301, P0302, P0303, P0304 and/or P0316 stored in the powertrain control module (PCM). This may be due to water build up in the spark plug well(s) which can lead to signs of corrosion on ignition system components. To correct the condition, follow the Service Procedure to resolve the source of all DTCs and to install an engine appearance cover.



TECHNICAL SERVICE BULLETIN

MIL With Misfire DTCs/Water In Spark Plug Wells And/Or Corrosion On Ignition System Components

21-2147

07 June 2021

Model:

Ford 2019-2021 Ranger

Issue: Some 2019-2021 Ranger vehicles may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) P0300, P0301, P0302, P0303, P0304 and/or P0316 stored in the powertrain control module (PCM). This may be due to water build up in the spark plug well(s) which can lead to signs of corrosion on ignition system components. To correct the condition, follow the Service Procedure to resolve the source of all DTCs and to install an engine appearance cover.

Action: Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- 2019-2021 Ranger
- Illuminated MIL with DTCs P0300, P0301, P0302, P0303, P0304 and/or P0316 stored in the PCM
- Presence of water in one or more of the spark plug well(s) and/or signs of corrosion on ignition system components
- Engine appearance cover not installed

NOTE: Part quantity refers to the number of that service part number required, which may be different than the number of individual pieces. Service part numbers contain 1 piece unless otherwise stated. "As Needed" indicates the part is required but the number may vary or is not a whole number; parts can be billed out as non-whole numbers, including less than 1.

Parts

Part Number		Description	Quantity
L1MZ-6A949-A	-	Engine Cover	1
W714647-S450-B	Package Contains 4 Pieces, 2 Pieces Required	Engine Appearance Cover Stud Bolt	1
W520201-S450B	Package Contains 4 Pieces, 2 Pieces Required	Engine Appearance Cover Nuts	1
XG-3-A	-	Motorcraft® Silicone Brake Caliper Grease and Dielectric Compound	As Needed

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2019-2021 Ranger: Install Engine Appearance Cover (Do Not Use With Any Other Labor Operations)	212147A	0.3 Hrs.

Repair/Claim Coding

Causal Part:	21022A68
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