# DTC P0454 EVAP. EMISSION SYSTEM-PRESSURE SENSOR INTERMITTENT

## COMPONENT LOCATION EBACDEB5

Refer to DTC P0451.

## GENERAL DESCRIPTION E9BA5F8D

Refer to DTC P0451.

## DTC DESCRIPTION E92CE425

The Tank Pressure Noisy Diagnostic continuously monitors the fuel tank pressure to determine if there is external noise impinging on the fuel tank pressure measurement.
Checking output signals from FTPS under detecting condition, if the stored previous - current signals is high than 33.0002., PCM sets P0454. MIL(Malfunction Indicatin Lamp) turns on when the malfunction lasts till cosecutive 2 driving cycle.

## DTC DETECTING CONDITION EC612100

| Item | Detecting Condition | Possible cause |
|---|---|---|
| DTC Strategy | • The Tank Pressure Noisy Diagnostic continuously monitors the fuel tank pressure to determine if there isexternal noise impinging on the fuel tank pressuremeasurement. | • Poor connection<br>• Faulty FTPS<br>• Faulty PCM |
| Enable Conditions | • Engine Running<br>• Intake Air Temperature ≥ -4℃( 24.8 °F)<br>• Fuel Tank Vac Offset Update Completed<br>• No Tank Pres Short Fault Present and Nosiy SignalDisabling Faults Present<br>• Nosiy Signal Enable Criteria Met | |
| Threshold value | • Tank Pressure Difference 〉 33.0002 | |
| Diagnosis Time | • Continuous<br>(More than 15 seconds failure for every 32 seconds test ) | |
| MIL On Condition | • 2 Driving Cycles | |

## SPECIFICATION EDFAB6DC

Refer to DTC P0451.

## SCHEMATIC DIAGRAM E655ECE1

Refer to DTC P0451.

## MONITOR SCANTOOL DATA EF5A0669

Refer to DTC P0451.

## TERMINAL AND CONNECTOR INSPECTION E1587807

Refer to DTC P0451.

## POWER CIRCUIT INSPECTION E9A4D387

1. IG "OFF" and disconnect FTPS connector.
2. IG "ON" & ENG "OFF"
3. Measure voltage between terminal 1 of FTPS harness connector and chassis ground.

Specification : Approx. 5V

4. Is the measured voltage within specification ?

**YES**

▶ Go to "Ground circuit inspection" procedure.

**NO**

▶ Repair or replace as necessary and go to "Verification of Vehicle Repair" procedure.

## GROUND CIRCUIT INSPECTION E8E69482

1. IG "OFF" and disconnect FTPS connector.
2. Measure voltage between terminal 1 of FTPS harness connector and chassis ground.
3. Measure voltage between terminal 1 and 3 of FTPS harness connector.

Specification : Voltage difference between Measurement "A" and "B" is below 200mV.

4. Is the measured voltage within specification ?

**YES**

▶ Go to "Signal Circuit Inspection" procedure.

**NO**

▶ Repair contact reistance or open in harness and then go to "Verification of Vehicle Repair" procedure.

## SIGNAL CIRCUIT INSPECTION E69ADCC8

1. Check voltage
   1) IG "OFF" and disconnect FTPS connector.
   2) IG "ON" & ENG "OFF"
   3) Measure voltage between terminal 2 of FTPS harness connector and chassis ground.

Specification : Approx. 0V

   4) Is the measured voltage within specification ?

**YES**

▶ Go to "Component Inspection" procedure.

**NO**

▶ Repair or replace as necessary and go to "Verification of Vehicle Repair" procedure.

## COMPONENT INSPECTION E326E20E

1. Check FTPS

   1) IG "OFF" and connect scatool to DLC(Data Link Connector).

   2) Monitor "FTPS" parameter with accelleration on service data.

**SPECIFICATION**

| Pressure (kPa) | Output Voltage (V) |
|---|---|
| -2.5 kPA | 0.5V |
| 0 kPA | 2.5V |
| 2.5 kPa | 4.5V |

   3) Does the "FTPS" parameter with accelleraton on the service data change ?

**YES**

▶ Go to "Check PCM" as follows.

**NO**

▶ Substitute with a known - good FTPS and check for proper operation.
▶ If the problem is corrected, replace FTPS and go to "Verification of Vehicle Repair" procedure.

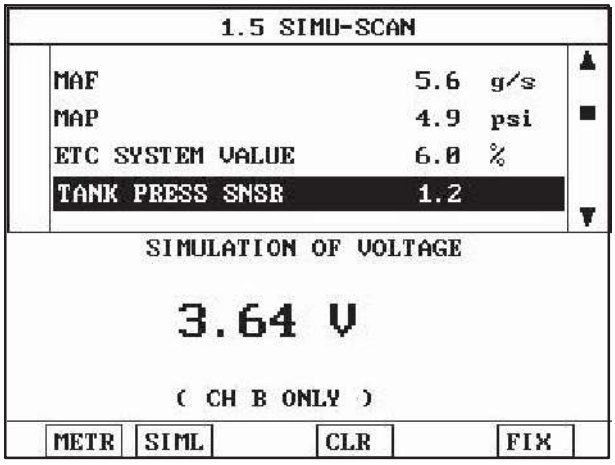
2. Check PCM.

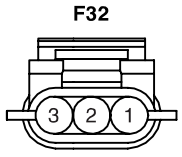
   1) IG "OFF" disconnect FTPS connector

   2) Connect Scantool and IG "ON" & ENG "OFF"

   3) Select simulation function on scantool.

   4) Simulate voltage at terminal 2 of FTPS harness connector.




1. FTPS Power
2. FTPS Signal
3. FTPS Ground

EGRF864A

5) Does the signal value of FTP sensor change according to simulation voltage ?

**YES**

▶ Thoroughly check connectors for looseness, poor connection, bending, corrosion, contamination, deterioration, or damage. Repair or replace as necessary and go to "Verification of Vehicle Repair" procedure.

**NO**

▶ Substitute with a known - good PCM and check for proper operation.
▶ If the problem is corrected, replace PCM and go to "Verification of Vehicle Repair" procedure.

***NOTE***

*There is a memory reset function on scantool that can erase optional parts automatically detected and memorized by PCM*
*Before or after testing PCM on the vehicle, use this function to reuse the PCM on the others*

## VERIFICATION OF VEHICLE REPAIR EF5379C0

Refer to DTC P0451.