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2008 Pontiac Truck Torrent FWD V6-3.6L



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DTC B0081

Diagnostic Instructions

- * Perform the Diagnostic System Check - Vehicle [See: Vehicle > Initial Inspection and Diagnostic Overview](#) prior to using this diagnostic procedure.
- * Review Strategy Based Diagnosis [See: Vehicle > Initial Inspection and Diagnostic Overview > Strategy Based Diagnosis](#) for an overview of the diagnostic approach.
- * Diagnostic Procedure Instructions [See: Vehicle > Initial Inspection and Diagnostic Overview > Diagnostic Procedure Instructions](#) provides an overview of each diagnostic category.

DTC Descriptors

DTC B0081 0F: Passenger Presence System Erratic

DTC B0081 11: Passenger Presence System Above Maximum Threshold

DTC B0081 39: Passenger Presence System Internal Electronic Failure

DTC B0081 3A: Passenger Presence System Incorrect Component Installed

DTC B0081 4B: Passenger Presence System Calibration Not Learned

DTC B0081 5A: Passenger Presence System Plausibility Failure

DTC B0081 71: Passenger Presence System Invalid Serial Data Received

Circuit/System Description

When the ignition is turned ON, the passenger presence system (PPS) and the inflatable restraint sensing and diagnostic module (SDM) performs tests to diagnose critical malfunctions within itself. When the SDM has completed the power-up mode, the SDM will establish communication with the PPS. The SDM will also request the instrument panel cluster to command both of the PASSENGER AIR BAG ON/OFF indicators ON for 5 seconds. If the SDM detects that the PPS has set a current DTC, the SDM will then disable the instrument panel (I/P) module deployment loop, set DTC B0081, and command the AIR BAG indicator ON.

Conditions for Running the DTC

Ignition voltage is between 9-16 volts.

Conditions for Setting the DTC

All of the following conditions must exist for 5 seconds:

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The passenger presence module has failed preload procedure.

B0081 39

The SDM has received a fault message from the PPS.

B0081 3A

The SDM has received a message from the PPS indicating a vehicle and PPS mismatch.

B0081 4B

The PPS is not calibrated.

B0081 5A

The PPS detects a plausibility error.

B0081 71

The SDM has received invalid or no serial data from the PPS.

Action Taken When the DTC Sets

- ^ The SDM commands the AIR BAG indicator ON.
- ^ The I/P module deployment loop will be disable.

Conditions for Clearing the DTC

- ^ The condition for setting the DTC no longer exists.
- ^ A history DTC will clear once 100 malfunction-free ignition cycles have occurred.

Diagnostic Aids

- ^ If either the SDM or PPS were replaced, verify that the correct part numbers were used for the vehicle application.
- ^ If this DTC sets with DTC B0081 5A as a history code, do not replace the passenger presence module.

Reference Information

Schematic Reference

SIR Schematics [See: Air Bag Systems > Electrical > SIR Schematics](#)

Connector End View Reference

Component Connector End Views [See: Vehicle > Connector Views](#)

Description and Operation

SIR System Description and Operation [See: Air Bag Systems > Description and Operation](#)

Electrical Information Reference

- ^ Circuit Testing [See: Vehicle > Component Tests and General Diagnostics > Circuit Testing](#)

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Control Module References [See: Vehicle > Programming and Relearning > Control Module References](#) for scan tool information

Circuit/System Testing

Note: When removing connectors, inspect for damage or corrosion. Damage or corrosion in the following requires repair or replacement of the affected component/connector:

- ^ The PPS module
- ^ The SDM module
- ^ The PPS module harness connector
- ^ The SDM wiring harness connector

1. Ignition ON, verify no PPS DTCs are set

-->If any PPS DTCs are set, refer to Diagnostic Trouble Code (DTC) List - Vehicle. [See: A L L Diagnostic Trouble Codes \(DTC \) > Diagnostic Trouble Code Descriptions > Diagnostic Trouble Code \(DTC\) List - Vehicle](#)

2. Verify the correct PPS part number is installed in the vehicle.

-->If the correct PPS is installed, replace with the correct PPS.

3. Ignition OFF, disconnect the harness connector at the PPS module.

4. Ignition OFF, test for less the 10 ohms between the ground circuit terminal 4 and ground.

-->If greater then the specified range, test the ground circuit for an open/high resistance.

5. Ignition ON, verify a test lamp illuminates between the B+ circuit terminal 3 and ground.

-->If the test lamp does not illuminate, test the B+ circuit for a short to ground or an open/high resistance.

6. Reconnect all PPS components and perform the passenger presence system rezero procedure.

7. Clear all DTCs and operate the vehicle within the conditions for running the DTC. DTC B0081 should not set as a current DTC.

-->If DTC B0081 sets, replace the PPS.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the diagnostic procedure. [See: A L L Diagnostic Trouble Codes \(DTC \) > Verification Tests](#)

Control Module References [See: Vehicle > Programming and Relearning > Control Module References](#) for PPS and SDM replacement, programming and setup.