

Classification:

EC14-012

Reference:

ITB14-056

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PERMANENT DTC (P-DTC) INFORMATION

APPLIED VEHICLES: 2010 and newer – see Applied Vehicles chart on page 4.

SERVICE INFORMATION

Starting with 2010 Model Year, Infiniti vehicles have been gradually incorporating a new type of DTC known as "Permanent DTC or P-DTC". Please refer to the P-DTC Applied Vehicles list on page 4.

- If a vehicle is equipped with P-DTCs, all emission related DTCs will also set a P-DTC if the MIL is turned ON.
- A listing of which DTCs that will also set a P-DTC is found in the DTC Index in the EC-Engine Control section of the Electronic Service Manual (ESM).

If a DTC repair is performed and the DTC erased, a vehicle may fail an Emission Inspection and Maintenance test if the P-DTC is not also erased.

P-DTC's can be erased by following the correct driving pattern:

- Use CONSULT-III plus (C-III plus) to confirm a P-DTC and determine the correct driving pattern to erase it (see page 2).
- Refer to the ESM, section EC-Engine Control, for driving pattern information. Look under How to Erase a Permanent DTC and Diagnosis Description.
- Details for driving pattern B and D are included in this bulletin, starting on page 2.

NOTE: In most cases, if repairs are complete, P-DTCs will erase with the customer driving their vehicle in their normal daily use.

Infiniti 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 Infiniti dealer to determine if this applies to your vehicle.

Example of Permanent DTC (P-DTC)

Permanent DTC Status

Turn ignition switch to the OFF position, wait for at least 10 seconds, and then turn ignition switch to the ON position. Repeat procedure to update status.
For driving pattern B and D, refer to the Service Manual.

| System | Permanent DTC | Driving Pattern B | Driving Pattern D |
|--------|------------------|-------------------|-------------------|
| ENGINE | P0196 EOT SENSOR | INCMP | INCMP |

Permanent DTC

Driving patterns required to erase the Permanent DTC

| System | Monitor Item | Value | Unit |
|--------|--------------|-------|------|
| ENGINE | ENG SPEED | 0 | rpm |
| ENGINE | B/FUEL SCHDL | 7.7 | ms |

Driving Patterns B and D for Erasing P-DTCs

NOTE:

- The DTC Index in the ESM, for vehicles equipped with P-DTCs, includes a Group classification of "A" or "B" for DTCs that also set P-DTCs. P-DTC with a Group classification of B requires completion of driving pattern B and D to erase the P-DTC. In most cases, completion of driving pattern B will also complete driving pattern D.
- With C-III plus, use PERMANENT DTC WORK SUPPORT while performing driving patterns.
- Make sure to obey all traffic laws and speed limits when performing driving patterns.

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Driving Pattern B

Driving pattern B means a trip satisfying the following conditions:

- Engine speed reaches 400 rpm or more.
- Engine coolant temperature reaches 70°C (158°F) or more.
- Vehicle speed of 70 – 120 km/h (44 – 75 MPH) is maintained for 60 seconds or more.
- Vehicle speed of 30 – 60 km/h (19 – 37 MPH) is maintained for 10 seconds or more.
- Vehicle speed of 4 km/h (2 MPH) or less with idling for 12 seconds or more.
- Vehicle speed of 10 km/h (7 MPH) or more for 10 minutes or more in total.
- 22 minutes or more elapsed time after engine start.

NOTE:

- Drive the vehicle at steady speeds when a “maintained” speed is required.
- When the same malfunction (DTC) is detected regardless of driving conditions, driving pattern B must be restarted.

Driving Pattern D

Driving pattern D means a trip satisfying the following conditions:

- Vehicle speed of 40 km/h (25 MPH) or more for 300 seconds or more.
- Maintain continuous idle speed for 30 seconds or more.
- 600 seconds or more elapsed time after engine start.

NOTE: When the same malfunction (DTC) is detected regardless of driving conditions, driving pattern D must be restarted.

Applied Vehicles (vehicles that use P-DTCs):

- All 2015 models have P-DTCs.
- 2010 to 2014 as follows:

| MODEL | ENGINE | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|------------------|------|------|------|------|------|
| G25 | VQ25HR | N/A | Yes | Yes | N/A | N/A |
| G37 G37 Coupe G37 Convertible G37 IPL Coupe G37 IPL Convertible | VQ37VHR | Yes | Yes | Yes | Yes | N/A |
| Q50 | | N/A | N/A | N/A | N/A | Yes |
| Q50 Hybrid | VQ35HR Hybrid | N/A | N/A | N/A | N/A | Yes |
| Q60 Coupe Q60 ILP Coupe Q60 Convertible Q60 IPL Convertible | VQ37VHR | N/A | N/A | N/A | N/A | Yes |
| EX35 | VQ35HR | No | Yes | Yes | N/A | N/A |
| EX37 | VQ37VHR | N/A | N/A | N/A | Yes | N/A |
| QX50 | | N/A | N/A | N/A | N/A | Yes |
| M35 / M45 | VQ35HR / VK45DE | No | N/A | N/A | N/A | N/A |
| M37 / M37x | VQ37VHR | N/A | Yes | Yes | Yes | N/A |
| M56 / M56x | VK56VD | N/A | No | No | No | N/A |
| M35h | VQ35HR Hybrid | N/A | N/A | Yes | Yes | N/A |
| Q70 | VQ37VHR / VK56VD | N/A | N/A | N/A | N/A | Yes |
| Q70 Hybrid | VQ35HR Hybrid | N/A | N/A | N/A | N/A | Yes |
| JX35 | VQ35DE | N/A | N/A | N/A | Yes | N/A |
| QX60 | VQ35DE | N/A | N/A | N/A | N/A | Yes |
| QX60 Hybrid | QR25DER Hybrid | N/A | N/A | N/A | N/A | Yes |
| FX35 | VQ35HR | No | Yes | Yes | N/A | N/A |
| FX50 | VK50VE | No | Yes | Yes | Yes | N/A |
| FX37 | VQ37VHR | N/A | N/A | N/A | Yes | N/A |
| QX70 | VQ37VHR / VK50VE | N/A | N/A | N/A | N/A | Yes |
| QX56 | VK56DE / VK56VD | No | No | Yes | Yes | N/A |
| QX80 | VK56VD | N/A | N/A | N/A | N/A | Yes |