

## 2009 Toyota Highlander Limited

2009 ENGINE PERFORMANCE Emission Applications - Toyota Highlander

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#### Emission Applications - Toyota Highlander

## EMISSION APPLICATIONS

### HIGHLANDER

| Engine & Fuel System                                                                                                                                        | (1) Emission Control Systems & Devices                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2009</b>                                                                                                                                                 |                                                                                                                                               |
| 2.7L (164") 4-Cyl.                                                                                                                                          | <b>PCV, EVAP, TWC, FR, SPK, AIS, (2) HO2S, CEC, (3) MIL, EVAP-VSV, EVAP-VC, EVAP-VPS, EVAP-CCVVS, EVAP-PSVVS, ORVR-COV, ORVR-OCKV, SPK-CC</b> |
| 3.3L (202") V6 SFI                                                                                                                                          | <b>PCV, EVAP, TWC, FR, SPK, (2) HO2S, CEC, (3) MIL, EVAP-VSV, EVAP-VC, EVAP-VPS, EVAP-CCVVS, EVAP-PSVVS, ORVR-COV, ORVR-OCKV, SPK-CC</b>      |
| 3.5L (210") V6 SFI                                                                                                                                          | <b>PCV, EVAP, TWC, FR, SPK, (2) HO2S, CEC, (3) MIL, EVAP-VSV, EVAP-VC, EVAP-VPS, EVAP-CCVVS, EVAP-PSVVS, ORVR-COV, ORVR-OCKV, SPK-CC</b>      |
| (1) For quick reference, major emission control systems and devices are listed in bold type; components and other related devices are listed in light type. |                                                                                                                                               |
| (2) Equipped with 4.                                                                                                                                        |                                                                                                                                               |
| (3) ECM controlled.                                                                                                                                         |                                                                                                                                               |

## ABBREVIATIONS

### AFS

Air/Fuel Ratio Sensor

### CEC

Computerized Engine Controls

### EVAP

Fuel Evaporative System

### EVAP-CCVVS

EVAP Canister Closed Valve Vacuum Switching Valve

### EVAP-PSVVS

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EVAP Pressure Switching Valve Vacuum Switching Valve

**EVAP-VC**

EVAP Vapor Canister

**EVAP-VPS**

EVAP Vapor Pressure Sensor

**EVAP-VSV**

EVAP Vacuum Switching Valve

**FR**

Fill Pipe Restrictor

**HO2S**

Heated Oxygen Sensor

**MIL**

Malfunction Indicator Light

**ORVR-COV**

On-Board Refueling Vapor Recovery Cut-Off Valve

**ORVR-OCKV**

On-Board Refueling Vapor Recovery Overfill Check Valve

**PCV**

Positive Crankcase Ventilation

**SFI**

Sequential Multiport Fuel Injection

**SPK**

Spark Controls

**SPK-CC**

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SPK Computer Controlled

**TWC**

Three-Way Catalytic Converter

**WU-TWC**

Warm-Up Three-Way Catalytic Converter