



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All except Routan	2000-2016	All Gasoline Engines	All	All	All

Condition

01 16 02 February 5, 2016 **2014815** Supersedes Technical Bulletin V011503 dated January 20, 2015 to include additional model year vehicles.

Gasoline Quality

The use of contaminated gasoline, seasonal fuel changes (summer/winter fuel) or gasoline with a low content of deposit control additives may result in one or more of the following conditions:

Excessive accumulation of deposits on intake valves, intake manifold, fuel injectors and combustion chambers.

Engine runs rough after cold start.

Excessive engine cranking time.

Stumbles while driving.

Rough engine idle.

Loss of engine performance.

Poor fuel economy.

Conditions may be severe enough to illuminate the MIL in conjunction with storage in the ECM data memory of DTCs for misfire (example: P0300, P030x) and / or lean fuel system (example: P0171, P0174, P1128, P1130, P1136, P1138).

Technical Background

1. Condition may be caused by use of contaminated gasoline.
2. Condition may be caused by use of gasoline with a low content of deposit control additives.

Production Solution

No production change required.



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Service

1. If use of contaminated gasoline is suspected:

Consider advising the customer to change gasoline source (brand/gas station). Contaminated gasoline may exhibit one or more of the following characteristics:

- May have unique color and odor.
- May contain water.
- May contain sediments and suspended matter.
- May appear cloudy and (after settling) may show signs of separation.

If use of gasoline with a low content of deposit control additives is suspected:

Recommend to the customer the exclusive use of **TOP TIER** Detergent Gasoline. These products provide improved deposit control performance. Current **TOP TIER** Gasoline retailers offering this product in all their octane grades include the following brands:

76 Stations	Kwik Trip / Kwik Star
Aloha Petroleum	MFA Oil Co.
ARCO	Mobile
Beacon	Ohana Fuels
BP	Petro-Canada
Cenex	Phillips 66
Chevron	Puma Energy Caribe, LLC
Chevron Canada	QuikTrip
Conoco	Road Ranger
CO-OP	Shamrock
Costco Wholesale	Shell
CountryMark	Shell Canada
Diamond Shamrock	Sinclair



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Entec Stations	Suncor Energy Inc.
Esso	SuperAmerica
Express Convince Centers	Tempo
Exxon	Texaco
Hawaii Fueling Network (HFN)	Tri-Par Oil Co.
Holiday Stationstores	Valero



Tip:

For more information on TOP TIER Detergent Gasoline, please see www.toptiergas.com.

For the fast removal of existing carbon deposits from injectors, combustion chambers and intake valves (intake valves apply to MPI engines only) gasoline additive G 001780M3 can be used. Mix additive directly with gasoline in fuel tank following mix ratio described on additive container. (example 20 ml per 10 liters of gasoline, 150 ml per 20 gallons of gasoline).

Warranty

Information only.

Required Parts and Tools

No Special Parts required.

No Special Tools required.

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.