



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All except Routan	2000-2017	All Gasoline Engines	All	All	All

Condition

01 16 15 October 20, 2016 **2014815** Supersedes Technical Bulletin V011602 dated February 5, 2016 to include additional model year applicability.

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.



Technical Bulletin

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	MFA
Aloha Petroleum	Mobile
Amoco Ultimate with Invigorate	OAAI
ARCO	Ohana Fuels
Beacon	Petro-Canada
BP Regular / Silver with Invigorate	Phillips 66
Break Time	Puma Energy Caribe, LLC
Cenex	QT
Chevron	QuikTrip
Chevron Canada	Road Ranger
CITGO	Shamrock
Conoco	Shell
CO-OP	Shell (Puerto Rico)



Technical Bulletin

Costco Wholesale	Sinclair
CountryMark / Plus	Standard
Diamond Shamrock	SuperAmerica
Esso	Super Fuels
Express Convince Centers	Tempo
Exxon	Texaco
Hele	Tri-Par Quick Stop
Holiday Stationstores	Valero
Kwik Trip / Kwik Star / Express	-
Mahalo	-



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).



Technical Bulletin

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.

Document Control Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2014815/11	10/20/16	V011615	Update model year applicability.
2014815/1	4/27/07	V010739	Original publication.