

CASE STUDY: BG PLATINUM® FUEL SYSTEM SERVICE

SERVICE BG Platinum® Fuel System Service

PRODUCTS BG Platinum® Air Intake, Valve & Combustion Chamber Cleaner, PN 261

BG Platinum® 44K® PN 208

EQUIPMENT BG Platinum® Fuel Service Supply Tool, PN E101-1249

BG AE03 intake adaptor PN E101-2228





VEHICLE:2016 Lexus IS 300 3.5L Dual Fuel
24,955 miles (40,161 km)

PROBLEM

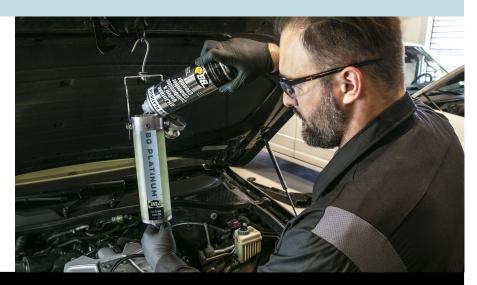
In gasoline direct injection (GDI) engines, built-up carbon can have a substantial effect on the air to fuel ratio which leads to inefficient combustion and drivability issues such as misfire, power loss and poor fuel economy.

Cleaner applied through the fuel system will not address deposits on the intake plenum or valves. This is due to the placement of the high pressure injector inside the combustion chamber on GDI engines.

SOLUTION

Following platform-specific instructions, the BG Platinum® Fuel System Service will remove deposits from the backs of intake valves, combustion chambers, and injector tips.

- Restores power
- Improves drivability
- Restores fuel economy



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PERFORMANCE TESTING RESULTS

NOTE: The following images on this vehicle were captured after running a full tank of fuel.

INTAKE VALVE





INTAKE VALVES





PISTON TOP





SUMMARY

- GDI technology offers impressive performance and fuel economy; however, these engines are highly complex
 and require additional service and preventive maintenance to keep these benefits and prolong the life of the
 engine, while maximizing fuel economy and vehicle drivability. Frequent carbon cleaning will prevent major
 issues to the vehicle's engine and fuel system.
- The BG Platinum® Fuel System Service uses specialized tools to administer product directly into the intake
 plenum through an accessible port that draws a metered vacuum. An ultra-fine mist of potent cleaning
 chemistry is used to thoroughly coat all surfaces removing the maximum amount of deposits in a single
 service, including heavy deposits from the backs of intake valves, in combustion chambers, and on injector
 tips.

[Conducted by BG Proving Ground. 06/12/2019]