

June 2017

Topic

High Performance Air Filters

Issue

Performance Air Filters can allow up to 35% more air flow, will result in a lean condition. The ECM/PCM will compensate by increasing the amount of fuel thereby reducing fuel mileage. This, combined with 5% to 10% Ethanol-blended fuel will alter the calibration specifications from the factory settings and create a lean condition whereas the ECM/PCM cannot adjust the fuel injected sufficiently to satisfy the needs of your engine. This will result in poor fuel mileage and require the use of a higher octane fuel to restore the desired power to your vehicle. In addition, Spark Plug Platinum tabs may separate due to extreme lean conditions.

Solution

The following adjustments may be performed to restore the expected mileage and performance from the use of the performance air filter and fuel type.

NGK Spark Plugs Canada Limited recommends:

- Install a spark plug one heat range cooler than OE to dissipate the increase in cylinder temperature
- Adjust the spark plug gap 0.010" smaller than the vehicle's factory setting (Note: do not reduce gap less than 0.035").

Additional Information

The following conditions may require 2 heat ratings cooler:

- Modified engines
- Abnormal driving habits
- Heavy loads
- Towing applications

Smaller gap settings may also be required.

Please contact NGK Technical Services for more information regarding unusual application requirements

1-877-2-SPARKY or info@ngksparkplugs.ca

Note: NGK Spark Plugs is the only spark plug company to offer colder than OE heat range spark plugs with resistors and iridium center electrodes.



www.ngksparkplugs.ca

info@ngksparkplugs.ca

275 Renfrew Drive, Suite 101, Markham, Ontario L3R 0C8

Toll Free Phone: 1-877-2-SPARKY (1-877-277-2759) Toll Free Fax: 1-877-3-SPARKY (1-877-377-2759)