



Carbon & Soot – P0420 Codes

All OBDII Vehicles with 80,000 miles or more in service.

- Subject:** Carbon & Soot related P0420 Catalyst Efficiency Codes
- Model(s):** All vehicles operating today. All model years.
- Condition:** Catalyst Efficiency. Below threshold.
- Cause(s):** Excess carbon and soot in the engine migrating into the Catalyst lowering its efficiency and ability to properly store and release oxygen.
- Solution:** Decarbonize all engines over 80,000 miles at regular intervals. Modern precision engines are designed to deliver more power and performance while lowering exhaust emissions. Many of these systems operate under stringent conditions with microscopic tolerances. When clean, these engines run great delivering quick acceleration, good fuel economy and strong overall performance.

Today's engines use VERY light weight engine oils which produce more carbon and soot than yesterday's engine oils. Fuel makers also do not put the detergent additives in their economy priced fuel that today's engines need to keep carbon and soot under control and to keep engines clean and in spec. Within just a few thousand miles, not very noticeable at first, engine performance begins to suffer. Deposits build up on engine and intake surfaces and the air and fuel delivery gets restricted.

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This condition over time reduces power and performance and decreases fuel economy. Carbon and soot is soft and migrates into the Converters substrate covering over the precious metals used and affecting the substrates ability to properly store and release the oxygen that the rear O2 sensor is looking for within very specific perimeters.

Regular engine decarbonizing and the use of Top Tier Fuels* keeps engines clean and in spec. Keeping your Converter's substrate free of carbon and soot allows it to do its job. Regular engine decarbonizing not only keeps engines clean but it can also clean and "refresh" the Catalytic Converters Substrate restoring some of its ability to do its job.

Professional strength and properly introduced products are a must. So is regular maintenance. **The Davico 2-Step Sledgehammer Induction Kit has been specially designed by Davico Manufacturing and Run-Rite Products to be a professional strength solution to excess carbon & soot.**

This effective solution is available now from Davico Manufacturing in either single kit form or in cases of 6. Please call or contact Davico Customer Service for pricing.

Procedure: Varies from product to product. Davico recommends Run-Rite now available directly from Davico Manufacturing by ordering part number 1540EA or 1540CS

Additional Help: Available from Davico Technical Assistance at 800-422-6046
*Google "Top Tier Fuels" for the latest information available on these fuels.

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