

2016 67 cummins egr delete instructions

2016 6.7 Cummins EGR Delete Instructions: A Comprehensive Guide

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Summary: This guide provides detailed instructions for performing an EGR delete on a 2016 6.7 Cummins engine. It covers necessary parts, step-by-step procedures, potential issues, and crucial safety precautions. The guide emphasizes best practices to ensure a successful and safe modification while highlighting common pitfalls to avoid. This information is intended for experienced mechanics; attempting this modification without proper knowledge and tools is strongly discouraged.

Keywords: 2016 6.7 Cummins EGR delete instructions, Cummins EGR delete, 6.7 Cummins delete, EGR delete kit, 2016 Cummins modification, diesel engine modification, heavy-duty diesel repair, EGR cooler delete, exhaust gas recirculation delete.

Understanding the 2016 6.7 Cummins EGR System and Why Delete It

The Exhaust Gas Recirculation (EGR) system in your 2016 6.7 Cummins engine is designed to reduce nitrogen oxide (NOx) emissions by recirculating a portion of exhaust gases back into the combustion chamber. While effective in reducing emissions, the EGR system is known for causing several problems, including:

Increased soot and carbon buildup: The recirculated exhaust gases contain soot and other particulate matter, leading to clogged EGR coolers, valves, and intake manifolds.

Reduced engine performance: The EGR system restricts airflow, resulting in decreased power and fuel efficiency.

EGR cooler failures: The EGR cooler is prone to cracking and leaks, leading to coolant contamination in the engine oil and potential catastrophic engine damage.

An EGR delete eliminates these problems by removing the EGR system entirely. However, it's crucial to understand that this modification is illegal in many jurisdictions and may void your vehicle's warranty. It's essential to check your local regulations before proceeding. Furthermore, proper tuning is required after the EGR delete to prevent engine damage.

Necessary Parts for a 2016 6.7 Cummins EGR Delete

Before starting the 2016 6.7 Cummins EGR delete, gather all necessary parts. This typically includes:

EGR delete kit: This kit usually includes a replacement EGR valve block-off plate, updated intake manifold gaskets, and potentially a new exhaust manifold gasket.

Tuner: A custom tuner is absolutely essential to reprogram the engine's computer to compensate for the removal of the EGR system. Failure to do so can result in engine damage. Select a reputable tuner with experience in 2016 6.7 Cummins modifications.

Appropriate tools: This includes sockets, wrenches, screwdrivers, torque wrench, and potentially specialized tools depending on the chosen EGR delete kit.

Step-by-Step 2016 6.7 Cummins EGR Delete Instructions

(Note: These instructions are for general guidance only and may vary depending on the specific EGR delete kit used. Consult your kit's instructions for detailed steps.)

1. Disconnect the battery: This crucial safety step prevents accidental short circuits and damage to the vehicle's electrical system.
2. Remove the intake manifold: This will require disconnecting various hoses and sensors. Take photos or make detailed notes to aid in reassembly.
3. Remove the EGR valve and cooler: This involves disconnecting several components and carefully removing the EGR valve and cooler assembly.
4. Install the block-off plates: Install the block-off plates according to the kit's instructions, ensuring proper sealing.
5. Reassemble the intake manifold: Reassemble the intake manifold, ensuring all components are properly connected and tightened to the

manufacturer's specifications.

6. Reconnect the battery: Reconnect the battery terminals.
7. Custom Tuning: This is absolutely critical. The tuner will adjust the engine's parameters to compensate for the absence of the EGR system, preventing engine damage and optimizing performance.

Common Pitfalls and Best Practices for a 2016 6.7 Cummins EGR Delete

Improper torque: Using incorrect torque values during reassembly can lead to leaks and component damage. Always use a torque wrench and refer to the manufacturer's specifications.

Ignoring the tuner: Failing to reprogram the engine's computer after an EGR delete can result in severe engine problems.

Poor quality parts: Using cheap or incompatible parts can lead to leaks, poor performance, and potentially engine damage.

Conclusion

Performing a 2016 6.7 Cummins EGR delete requires mechanical expertise and careful attention to detail. This guide provides a general overview; always consult the specific instructions provided with your chosen EGR delete kit. Remember, this modification may be illegal in your area and will likely void your warranty. Seek professional assistance if you lack the necessary skills and experience. Improper installation can lead to serious engine damage.

FAQs

1. Is an EGR delete legal? Legality varies by region. Check your local laws and regulations before proceeding.
2. Will an EGR delete void my warranty? Yes, it almost certainly will.
3. What are the benefits of an EGR delete? Improved performance, reduced soot buildup, and potentially longer lifespan of related components.
4. What are the risks of an EGR delete? Engine damage if not properly tuned, potential legal repercussions, and voiding your warranty.
5. What tools do I need? Sockets, wrenches, torque wrench, and potentially specialized tools depending on the kit.
6. What type of tuner should I use? A reputable tuner with experience in

2016 6.7 Cummins modifications.

7. How much does an EGR delete kit cost? Prices vary widely depending on the brand and features.
8. Can I do this myself? Only if you have significant mechanical experience. Otherwise, seek professional help.
9. What happens if I don't get it properly tuned? You risk severe engine damage, including catastrophic failure.

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