



## Frequently Asked Questions

### **BMW E46 3-Series (1999-2005) Intake Kit**

1. How do I clean the filter?
  - Cotton gauze pleated filters should be cleaned with a cleaning kit available at most auto parts stores or from [www.carboniodirect.com](http://www.carboniodirect.com).
2. Will an oiled filter harm my MAF sensor?
  - Filters that receive an appropriate amount of oil will not harm your MAF sensor. When servicing the filter, it is important to use the oil very sparingly. More is not better and over oiling can cause problems.
3. Where can I get replacement parts?
  - Selective replacement parts can be purchased at [www.carboniodirect.com](http://www.carboniodirect.com) while specific components can be purchased directly from Carbonio.
4. Will installation of a Carbonio intake cause a check engine light (CEL)?
  - No. All Carbonio intakes are thoroughly tested to ensure that they perform within vehicle parameters and do not cause a check engine light.
5. Are emissions components affected with the install of a Carbonio intake?
  - No. Carbonio intakes are designed to work in conjunction with all factory emissions components.
6. Why don't vehicle manufacturers make intakes as standard equipment?
  - While the performance benefits of an intake are undeniable, vehicle manufacturers are faced with design compromises when making their cars. Factory intake systems are designed primarily to make the engine as quiet as possible, therefore pleasing the most people and they are designed to be easily and quickly installed on an assembly line. Performance intakes are geared to the enthusiast that wants maximum performance and who has the additional time to fit a more complex aftermarket component to their car. These people can then reap the benefits of an induction system designed without compromise and with performance as its foremost priority.
7. Can I damage my engine by sucking in water with an intake?
  - Carbonio goes to great lengths to design intake systems for all weather conditions. Shapes are optimized to maximize air flow and minimize transfer of fluids such as rain water. As such, water inhalation is all but impossible unless the entire air inlet is submerged (normally requiring 18 inches or more of water).
8. How does an intake increase performance?
  - A vehicles engine is little more than a pump that takes air in and pushes it out. It behaves just like the human heart. In the same way that running a 100 meter dash while breathing through a drinking straw limits your performance, so too does a restrictive factory air intake restrict the engines maximum performance. Allowing the engine to breathe at its maximum capacity permits it to take in and pump out more air per revolution and thereby make more power.

9. Is the installation reversible?

- Yes. Installation of Carbonio products is totally reversible and do not require any cutting or modifying of existing factory components. This is particularly useful for leased vehicles that need to be returned as delivered by the factory.

10. How is the carbon manufactured?

- Carbonio products are manufactured using techniques normally reserved for the aerospace industry. Multiple layers of resin impregnated carbon fabric (pre-preg or sometimes called "dry carbon") and proprietary thermal-barrier composite is vacuum bagged and baked in a pressurized autoclave to yield thin, yet exceptionally strong parts. Once removed from the mold, parts then receive multiple coats of UV resistant urethane clear and are polished to a high luster finish.

11. What warranty does the product carry?

- All Carbonio products carry our Unlimited Mileage Guarantee. Details of the warranty are available in the 'Policies' section of the website.