

BMC FB156/01

BMC (FB156/01) High Performance Air Filter User Manual

Model: FB156/01

INTRODUCTION

The BMC (FB156/01) High Performance Air Filter is engineered to optimize engine performance by providing superior air filtration and increased airflow compared to standard OEM paper filters. Designed with advanced materials and construction, this reusable air filter offers a long lifespan, matching that of your vehicle, while ensuring protection against harmful particles.

This manual provides essential information for the proper installation, operation, maintenance, and care of your BMC High Performance Air Filter.

KEY FEATURES

- **Full Moulding Construction:** Developed by the BMC F1 R&D team, ensuring high quality and performance.
- **Increased Airflow:** Designed to provide a considerably greater air flow than OEM air filters, enhancing engine efficiency.
- **Advanced Filtering Material:** Composed of a special cotton gauze soaked with low-viscosity oil for optimal air permeability and filtration down to 7 microns.
- **Washable and Reusable:** Unlike disposable paper filters, BMC air filters are washable and reusable, offering a lifespan equal to that of the vehicle.
- **Superior Particle Stoppage:** Effectively stops impurities from 7 microns up, protecting mechanical components downstream of the intake system.

PRODUCT OVERVIEW



Figure 1: Top view of the BMC (FB156/01) High Performance Air Filter, showcasing its red frame and pleated filter material.



Figure 2: An assortment of BMC air filters, demonstrating different shapes and sizes, including panel and conical designs, all featuring the distinctive red frame.

SETUP AND INSTALLATION

Installation of the BMC High Performance Air Filter typically involves replacing the existing air filter in your vehicle's airbox. While the process can vary slightly depending on the vehicle model, the general steps are as follows:

1. **Locate the Airbox:** Identify the air filter housing in your vehicle's engine bay. It is usually a black plastic box connected to the engine's intake system.
2. **Open the Airbox:** Unclip or unscrew the fasteners securing the airbox lid. Some vehicles may require a screwdriver or wrench.
3. **Remove Old Filter:** Carefully lift out the old, dirty air filter. Note its orientation for correct installation of the new filter.
4. **Clean Airbox:** Wipe down the inside of the airbox to remove any debris or dust.
5. **Install New Filter:** Place the BMC (FB156/01) High Performance Air Filter into the airbox, ensuring it sits flush and correctly oriented.
6. **Secure Airbox:** Close the airbox lid and re-secure all clips or screws. Ensure a tight seal to prevent unfiltered air from entering the engine.

Note: For specific vehicle instructions, consult your vehicle's service manual or a qualified mechanic.

OPERATING PRINCIPLES

The BMC High Performance Air Filter operates on a principle that combines high airflow with effective filtration. Unlike traditional paper filters that rely on dense material to block particles, BMC filters use a multi-layered cotton gauze, treated with a low-viscosity oil. This design allows for significantly less resistance to airflow, leading to improved engine breathing and potentially better performance.

The oil on the cotton gauze acts as a sticky barrier, trapping even very fine particles (as small as 7 microns) while allowing air to pass through freely. This "depth filtration" method ensures that the filter continues to perform efficiently even as it accumulates dirt, unlike paper filters which become increasingly restrictive as they clog.

MAINTENANCE

One of the key advantages of the BMC High Performance Air Filter is its reusability. Regular cleaning and re-oiling are essential to maintain its performance and longevity. The frequency of maintenance depends on driving conditions and mileage, but generally, it is recommended every 15,000 to 25,000 miles or once a year, whichever comes first.

Cleaning Procedure:

1. **Remove Filter:** Carefully remove the air filter from its housing as described in the "Setup and Installation" section.
2. **Brush Off Loose Dirt:** Gently brush off any large, loose debris from the filter surface. Do not use compressed air as it can damage the cotton fibers.
3. **Apply Cleaning Solution:** Spray a dedicated BMC air filter cleaning solution evenly onto both sides of the filter. Allow it to soak for 10-15 minutes.
4. **Rinse:** Rinse the filter with low-pressure water from the clean side (the side facing the engine) outwards, allowing the dirt to be flushed away. Continue rinsing until the water runs clear.
5. **Dry:** Allow the filter to air dry completely in a clean, well-ventilated area. Do not use heat guns, direct sunlight, or compressed air, as this can damage the filter material. Drying can take several hours.
6. **Re-oil:** Once completely dry, apply BMC air filter oil evenly to the pleats of the filter. Apply just enough oil to turn the cotton a uniform red color. Do not over-oil, as this can restrict airflow and potentially contaminate sensors.
7. **Reinstall:** Reinstall the clean and re-oiled filter into the airbox.

Important: Always use genuine BMC cleaning and re-oiling kits to ensure proper care and to avoid damaging the filter or voiding any potential warranty.

TROUBLESHOOTING

While BMC air filters are designed for reliability, occasional issues may arise. Here are some common concerns and their potential solutions:

- **Reduced Engine Performance/Check Engine Light:**
 - **Cause:** Over-oiling the filter can lead to oil contaminating the Mass Air Flow (MAF) sensor.
 - **Solution:** Clean the MAF sensor with a specialized MAF sensor cleaner. Ensure the air filter is properly oiled, not excessively.
 - **Cause:** Filter is extremely dirty and restricting airflow.
 - **Solution:** Clean and re-oil the filter as per maintenance instructions.
- **Unusual Engine Noises:**
 - **Cause:** Airbox not properly sealed after installation.

- **Solution:** Recheck all clips and screws on the airbox to ensure a tight seal.
- **Filter Appears Dry/Not Red:**
 - **Cause:** Insufficient oil applied during re-oiling.
 - **Solution:** Re-oil the filter, ensuring even coverage and a uniform red color.

If problems persist, consult a professional mechanic or contact BMC customer support.

SPECIFICATIONS



Figure 3: Schematic diagram illustrating typical dimensions (A and B) for a panel air filter, similar to the FB156/01 model.

Attribute	Value
Brand	BMC Air Filter
Model	FB156/01
Item Weight	13.8 ounces
Product Dimensions	26.6 x 7.5 x 1.4 inches
Global Trade Identification Number (GTIN)	08032872862426

Note: Dimensions and weight are approximate and may vary slightly.

WHAT'S IN THE BOX

- One (1) BMC (FB156/01) High Performance Panel Air Filter

WARRANTY AND SUPPORT

BMC air filters are manufactured to high standards. For specific warranty information, please refer to the documentation included with your product or visit the official BMC Air Filters website. Keep your purchase receipt as proof of purchase.

For technical support, product inquiries, or assistance with cleaning and re-oiling, please contact BMC customer service through their official channels. Using genuine BMC cleaning and re-oiling products is crucial for maintaining warranty validity and filter performance.

Return Policy: This product typically has a 30-day return/replacement policy from the date of purchase, subject to retailer terms and conditions.

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