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Model: BF40

1. INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of the Standard Motor Products BF40 Crankcase Ventilation Filter. The BF40 is designed to manage crankcase gases, ensuring efficient engine operation and compliance with emission standards.



Figure 1: Overview of the Standard Motor Products BF40 Crankcase Ventilation Filter. This image shows the full length of the black cylindrical filter with barbed ends for hose connections.

2. SAFETY INFORMATION

- Always ensure the engine is off and cool before attempting any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Refer to your vehicle's service manual for specific instructions and torque specifications related to crankcase ventilation system components.

- Keep away from open flames and sources of ignition.
- Dispose of old filters and automotive fluids responsibly according to local regulations.

3. INSTALLATION (SETUP)

The BF40 filter is typically installed in the crankcase ventilation system, often between the crankcase and the intake manifold or air intake system. The exact location and procedure may vary by vehicle make and model.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Allow the engine to cool down completely.
2. **Locate Existing Filter:** Identify the current crankcase ventilation filter or the connection point for the new filter. Consult your vehicle's service manual for the precise location.
3. **Disconnect Hoses:** Carefully disconnect the hoses connected to the old filter. Be mindful of any clips or clamps that secure the hoses.



Figure 2: Close-up view of one end of the BF40 filter, showing the barbed connection point designed for secure hose attachment.

4. **Remove Old Filter:** Remove the old filter from its mounting location.
5. **Install New Filter:** Insert the Standard Motor Products BF40 filter into the system. Ensure the flow direction, if indicated on the filter, matches the system's requirements.
6. **Reconnect Hoses:** Securely attach the hoses to the new BF40 filter. Ensure all connections are tight and free of leaks. Use original or new clamps as necessary.



Figure 3: Another close-up of the BF40 filter, highlighting the robust construction and potentially visible branding or part numbers on the body.

7. **Verify Installation:** Double-check all connections and ensure the filter is securely mounted.
8. **Test:** Start the engine and check for any unusual noises, leaks, or warning lights.

4. OPERATION

The Standard Motor Products BF40 Crankcase Ventilation Filter operates passively as part of the vehicle's positive crankcase ventilation (PCV) system. Its primary function is to filter oil vapor and other contaminants from blow-by gases before they are recirculated into the engine's intake system or vented. This process helps to:

- Prevent sludge buildup within the engine.
- Reduce harmful emissions.
- Maintain proper engine vacuum and performance.

Once installed, the filter requires no active user intervention for its operation.

5. MAINTENANCE

The crankcase ventilation filter is a wear item and requires periodic inspection and replacement to ensure optimal engine performance and emission control.

- **Inspection:** Regularly inspect the filter and its connecting hoses for signs of cracking, hardening, blockages, or oil saturation. Refer to your vehicle's maintenance schedule for recommended inspection intervals.
- **Replacement:** Replace the BF40 filter according to your vehicle manufacturer's recommended service intervals, or sooner if signs of clogging or damage are observed. A clogged filter can lead to increased crankcase pressure, oil leaks, and reduced engine performance.
- **Cleaning:** This filter is not designed to be cleaned. Attempting to clean it may damage the filtration media and compromise its effectiveness. Always replace with a new unit.

6. TROUBLESHOOTING

Issues related to the crankcase ventilation filter are often symptoms of a clogged or faulty unit. Common indicators include:

- **Increased Oil Consumption:** A clogged filter can lead to excessive oil consumption due to improper crankcase ventilation.
- **Engine Performance Issues:** This may include rough idle, misfires, or a general decrease in engine power.
- **Oil Leaks:** Increased crankcase pressure from a blocked filter can force oil past seals and gaskets, leading to leaks.

- **Check Engine Light:** In some cases, a malfunctioning PCV system component, including the filter, can trigger a Check Engine Light.
- **Whistling or Hissing Noises:** These sounds might indicate a vacuum leak in the PCV system, potentially around the filter connections.

If you experience any of these symptoms, inspect the BF40 filter and the entire PCV system. Replacement of the filter is often the first step in resolving these issues.

7. SPECIFICATIONS

Attribute	Value
Brand	Standard Motor Products
Model	Crankcase Ventilation Filter
Item Model Number	BF40
Item Weight	15 ounces
Product Dimensions	2.2 x 1.9 x 4.1 inches
Country of Origin	USA
Manufacturer Part Number	BF40
ASIN	B00C6SNR1S

8. WARRANTY INFORMATION

Specific warranty terms for the Standard Motor Products BF40 Crankcase Ventilation Filter are provided by the manufacturer. Please refer to the packaging or the official Standard Motor Products website for detailed warranty coverage and claim procedures.

9. SUPPORT

For technical assistance, product inquiries, or support regarding the Standard Motor Products BF40, please contact Standard Motor Products directly through their official website or customer service channels. When contacting support, please have your product model number (BF40) and any relevant vehicle information available.

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