aFe Power 21-45507

aFe POWER Magnum FLOW Universal Air Filter User Manual

Model: #21-45507 | Brand: aFe Power

Product Overview

The aFe POWER Magnum FLOW OE Replacement Engine Air Filter with Pro DRY S Media is designed for drivers who prioritize ease of maintenance without sacrificing performance. Featuring a 3-layer, non-oiled synthetic media in a deep-pleated configuration, this filter provides excellent airflow and efficient filtration. The hassle-free, oil-free design makes cleaning and maintenance quick and easy. The precisely engineered polyurethane frame provides long-lasting reliable structure to these filters while offering a pliable flange for improved installation and a leak free seal. Every filter is designed for a lifetime of performance and protection.



Image: The aFe POWER Magnum FLOW Universal Air Filter, showcasing its conical shape and pleated dry media.

Key Features

- **Progressive 3-layer dry synthetic material:** Provides maximum convenience with an oil-free design.
- **Recommended for street and light off-road use:** Versatile application for various driving conditions.
- **Constructed with a 360-degree polyurethane frame:** Ensures structural integrity and durability.
- **Pliable polyurethane flange:** Creates a secure, leak-free seal during installation.
- **Integrated urethane bump seal:** Enhances sealing capabilities.
- **Made in the USA:** Manufactured with quality standards.

Setup and Installation

This aFe POWER Magnum FLOW air filter is designed for universal fitment, allowing it to be adapted to various vehicle applications. Proper installation is crucial for optimal performance and engine protection. While specific vehicle installation steps may vary, the general process involves securely mounting the filter to your vehicle's air intake system.

1. **Preparation:** Ensure the engine is off and cool. Gather necessary tools, which may include screwdrivers, wrenches, or hose clamps, depending on your existing intake system.

2. **Remove Old Filter (if applicable):** Carefully disconnect and remove the existing air filter or intake components.
3. **Position the New Filter:** Place the aFe POWER Magnum FLOW filter in the desired location, ensuring the inlet flange aligns correctly with the intake tube.
4. **Secure the Filter:** Use appropriate clamps or fasteners to firmly secure the filter to the intake tube. The pliable polyurethane flange is designed to create a tight seal.
5. **Inspect Connections:** Double-check all connections to ensure they are tight and there are no air leaks.
6. **Final Check:** Before starting the engine, ensure no tools or debris are left in the engine bay.

For vehicle-specific installation guidance, consult your vehicle's service manual or a qualified automotive technician.

Operating Principles

The aFe POWER Magnum FLOW Universal Air Filter functions by allowing a high volume of clean air to enter your engine while effectively filtering out harmful contaminants such as dust, dirt, and debris. The advanced 3-layer Pro DRY S synthetic media is designed to capture particles without the need for oil, ensuring consistent airflow and protection. This optimized airflow contributes to improved engine efficiency and performance.

Maintenance and Cleaning

The Pro DRY S media in your aFe POWER Magnum FLOW air filter is a non-oiled, synthetic material, which simplifies the cleaning process significantly. Regular maintenance ensures the filter continues to provide optimal airflow and filtration.

Cleaning Procedure:

1. **Remove the Filter:** Carefully remove the air filter from your vehicle's intake system.
2. **Tap Out Loose Debris:** Gently tap the filter against a hard surface to dislodge any large, loose dirt particles.
3. **Clean with Compressed Air (Optional):** For deeper cleaning, you may use low-pressure compressed air (less than 30 psi) from the inside-out to blow out remaining debris. Avoid using high pressure, which can damage the media.
4. **Wash (if necessary):** If the filter is heavily soiled, you can wash it using a mild detergent and water. Rinse thoroughly from the inside-out until the water runs clear.
5. **Allow to Dry:** Let the filter air dry completely before reinstallation. Do not use heat guns or direct sunlight, as this can damage the filter media. Ensure it is completely dry to prevent moisture from entering the engine.
6. **Reinstall:** Once dry, reinstall the filter following the setup instructions.

Note: Do not use oil on this filter. The Pro DRY S media is designed to function optimally without oil, and applying oil can impede its performance and potentially damage your engine's sensors.

Troubleshooting

If you experience issues after installing or maintaining your aFe POWER Magnum FLOW air filter, consider the following common troubleshooting steps:

- **Reduced Airflow/Engine Performance:**
    - Check if the filter is properly seated and sealed. A loose connection can cause air leaks.
    - Inspect the filter for excessive dirt or debris. A clogged filter will restrict airflow. Clean or replace if

necessary.
    - Ensure no foreign objects are obstructing the intake path.
- **Check Engine Light (CEL):**
    - A CEL after air filter installation can sometimes indicate an issue with the Mass Air Flow (MAF) sensor. Ensure the MAF sensor, if present, is clean and properly reconnected.
    - Verify all intake hoses and clamps are secure to prevent unmetered air from entering the engine.
- **Physical Damage to Filter:**
    - Inspect the filter media and polyurethane frame for any tears, cracks, or deformities. Damage can compromise filtration and airflow.
    - If damage is present, the filter should be replaced.

If problems persist, it is recommended to consult a professional mechanic or contact aFe Power customer support.

Specifications

Attribute	Detail
Brand	aFe Power
Model Number	#21-45507
Filter Type	Magnum FLOW Universal Air Filter, Pro DRY S Media (Non-Oiled Synthetic)
Inlet Diameter	4.50 inches
Base Diameter	6 inches
Top Diameter	4.75 inches
Height	7 inches
Shape	Conical
Item Weight	1.46 pounds
Construction	360-degree Polyurethane Frame, Pliable Polyurethane Flange
Fit Type	Universal Fit
Country of Origin	USA



Image: Seal indicating the product is Made in the USA.

Warranty Information

aFe Power designs its Magnum FLOW air filters for a lifetime of performance and protection. For specific warranty terms and conditions, including details on coverage and claims, please refer to the official aFe Power website or

contact their customer support directly. Keep your purchase receipt as proof of ownership.

Customer Support

For further assistance, technical questions, or support regarding your aFe POWER Magnum FLOW Universal Air Filter, please contact aFe Power customer service. You can typically find contact information, including phone numbers and email addresses, on the official aFe Power website (www.afepower.com).

Important Safety Information

Image: A warning symbol with an exclamation mark inside a triangle, indicating a Proposition 65 warning.

WARNING: Cancer and Reproductive Harm. For more information, go towww.P65Warnings.ca.gov.
It is important to read and understand all safety warnings and instructions before installing or using this product. Always wear appropriate personal protective equipment during installation and maintenance.

© 2024 aFe Power. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question