

MAHLE LX984/2

MAHLE LX984/2 Air Filter Instruction Manual

1. INTRODUCTION

This manual provides instructions for the proper installation, function, and maintenance of your MAHLE LX984/2 Air Filter. Designed to meet original equipment specifications, this air filter ensures clean air supply to your engine, which is crucial for optimal performance and fuel efficiency.

What's in the Box:

- One (1) MAHLE LX984/2 Air Filter

2. PRODUCT OVERVIEW

The MAHLE LX984/2 is a high-quality replacement air filter engineered for specific vehicle applications. It is designed to deliver consistent performance by effectively filtering contaminants from the air entering your engine's intake system.

Key Features:

- Designed to deliver trouble-free, consistent performance.
- Meets original part specifications for reliable operation.
- Ensures exact fitment as an original replacement component.



Figure 2.1: Angled view of the MAHLE LX984/2 Air Filter. This image displays the filter's pleated media and durable frame, highlighting its construction.

3. INSTALLATION GUIDE

Proper installation of the air filter is essential for its effective operation. Refer to your vehicle's service manual for specific instructions regarding your make and model. The following are general steps for air filter replacement:

1. **Locate the Air Filter Housing:** The air filter housing is typically a black plastic box located under the hood, connected to the engine's intake system.
2. **Open the Housing:** Depending on your vehicle, the housing may be secured with clips, screws, or clamps. Release these fasteners to open the housing cover.
3. **Remove the Old Filter:** Carefully lift out the old air filter. Note its orientation before removal.
4. **Clean the Housing:** Inspect the air filter housing for any debris, leaves, or dust. Clean it thoroughly with a cloth or vacuum if necessary.
5. **Install the New Filter:** Insert the new MAHLE LX984/2 Air Filter into the housing, ensuring it sits correctly and matches the orientation of the old filter. Do not force it into place.
6. **Secure the Housing:** Close the air filter housing cover and secure all clips, screws, or clamps. Ensure the housing is sealed properly to prevent unfiltered air from entering the engine.



Figure 3.1: Side view of the MAHLE LX984/2 Air Filter. This perspective shows the robust orange frame and the clean edge of the filtration material.

4. OPERATING PRINCIPLES

The MAHLE LX984/2 Air Filter functions as a critical component of your vehicle's engine intake system. Its primary role is to prevent harmful contaminants such as dust, pollen, dirt, and debris from entering the engine's combustion chambers. By providing clean air, the filter helps maintain optimal engine performance, fuel efficiency, and extends the lifespan of engine components.



Figure 4.1: Top-down view of the MAHLE LX984/2 Air Filter. This image highlights the precise pleating of the filter media, which maximizes surface area for efficient air filtration.

5. MAINTENANCE

Regular inspection and replacement of your air filter are crucial for maintaining engine health. A dirty or clogged air filter can restrict airflow, leading to reduced engine performance and increased fuel consumption.

Inspection and Replacement Schedule:

- Consult your vehicle's owner's manual for the recommended air filter inspection and replacement intervals.
- As a general guideline, inspect the air filter every 12,000 to 15,000 miles or annually, whichever comes first.
- Replace the air filter if it appears dirty, discolored, or clogged with debris. In dusty environments, more frequent replacement may be necessary.

How to Inspect:

Follow the initial steps of the installation guide (Section 3) to open the air filter housing. Visually inspect the filter element. If light cannot easily pass through the filter media when held up to a light source, or if there is significant accumulation of dirt and debris, it is time for replacement.

6. TROUBLESHOOTING

A properly installed MAHLE LX984/2 Air Filter should operate without issues. However, if you experience certain engine performance problems, a clogged or improperly installed air filter could be a contributing factor.

Symptom	Possible Cause	Solution
Reduced Engine Performance / Sluggish Acceleration	Clogged air filter restricting airflow.	Inspect and replace the air filter if dirty.
Decreased Fuel Economy	Engine working harder due to restricted airflow.	Inspect and replace the air filter if dirty.
Engine Misfires / Rough Idling	Insufficient air supply or unfiltered air entering the engine.	Check filter installation for proper seal; replace if clogged.
Unusual Engine Noises	Improperly seated air filter housing allowing air leaks.	Ensure air filter housing is securely closed and sealed.

If these troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician.

7. SPECIFICATIONS

Attribute	Detail
Brand	MAHLE
Model Number	LX984/2
OEM Part Number	LX984/2
Item Weight	4.6 ounces

Attribute	Detail
Automotive Fit Type	Vehicle Specific Fit
GTIN / UPC	027067790637
Product Grade	Replacement Part

8. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official MAHLE website or contact MAHLE customer support directly. Keep your purchase receipt as proof of purchase.

MAHLE Contact Information:

- Visit the official MAHLE website for support resources and contact details.
- For technical assistance or inquiries, please use the contact methods provided by MAHLE.