MAHLE LX296

MAHLE LX 296 Air Filter User Manual

Comprehensive Guide for Installation, Maintenance, and Specifications

1. Introduction

This manual provides essential information for the proper installation, maintenance, and understanding of your **MAHLE LX 296 Air Filter**. Designed to meet vehicle manufacturers' specifications, this air filter is engineered to capture 99.9% of dust, soot, and tire wear particles, ensuring optimal engine performance and longevity.

Regular replacement of your air filter is crucial for maintaining engine efficiency and preventing premature wear of critical components such as valves, cylinder work surfaces, piston rings, and bearings.



Figure 1: Main view of the MAHLE LX 296 Air Filter, showcasing its rectangular shape and pleated filter media.

2. Installation

Proper installation of the MAHLE LX 296 Air Filter is vital for its effective operation. Always refer to your vehicle's specific

service manual for detailed instructions and safety precautions before beginning any work.

2.1 Tools Required

- Screwdriver (flathead or Phillips, depending on vehicle)
- Socket wrench (if applicable)
- Clean cloth
- New MAHLE LX 296 Air Filter

2.2 Installation Steps

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 air intake system.
2. **Open the Housing:** Unclip or unscrew the fasteners securing the air filter housing cover. Carefully lift the cover.
3. **Remove the Old Filter:** Take out the old air filter. Note its orientation for correct installation of the new filter.
4. **Clean the Housing:** Use a clean cloth to wipe away any dust or debris inside the air filter housing. Ensure no foreign objects are present.
5. **Insert the New Filter:** Place the new MAHLE LX 296 Air Filter into the housing, ensuring it sits flush and correctly oriented. The superior embossed and pleated filter media should be visible.
6. **Secure the Housing:** Replace the air filter housing cover and secure all clips or screws. Ensure a tight seal to prevent unfiltered air from entering the engine.



Figure 2: Front view of the MAHLE LX 296 Air Filter, showing the filter media and sealing edges.

3. Usage

The MAHLE LX 296 Air Filter functions passively as part of your vehicle's air intake system. Once installed, it continuously filters incoming air before it reaches the engine's combustion chamber. No user interaction is required during operation.

The filter's high particle uptake capacity ensures long service life even under extreme conditions such as heat, cold, or chemical influences, providing consistent protection for your engine.

4. Maintenance

Regular maintenance of your air filter is crucial for optimal engine performance and fuel efficiency. A clogged air filter can restrict airflow, leading to reduced engine power and increased fuel consumption.

4.1 Inspection and Replacement Schedule

It is recommended to inspect your air filter at every oil change or at least every 12,000 to 15,000 miles (approximately 19,000 to 24,000 kilometers), or as specified by your vehicle manufacturer's maintenance schedule. Replace the filter if it

appears dirty, discolored, or damaged.



Figure 3: Side view of the MAHLE LX 296 Air Filter, highlighting the robust construction and pleated design.

4.2 Signs of a Clogged Air Filter

- Decreased fuel efficiency
- Reduced engine power or acceleration
- Engine misfires or rough idling
- Black smoke from the exhaust (in some cases)
- Unusual engine noises

5. Troubleshooting

Most issues related to the air filter are resolved by timely inspection and replacement. If you experience engine performance issues after installing a new filter, consider the following:

- **Incorrect Installation:** Ensure the filter is seated correctly and the housing is sealed tightly. An improper seal can allow unfiltered air to bypass the filter.
- **Wrong Filter Type:** Verify that the MAHLE LX 296 is the correct air filter for your specific vehicle model. Refer to your vehicle's manual or a reputable parts catalog.
- **Other Engine Issues:** If replacing the air filter does not resolve performance issues, the problem may lie with other engine components. Consult a qualified mechanic.

6. Specifications

Detailed specifications for the MAHLE LX 296 Air Filter are provided below:

Attribute	Value
Brand	MAHLE
Model	Air Filter
Item Model Number	LX296
Manufacturer Part Number	77395502
Item Weight	8.9 ounces
Product Dimensions	9.96 x 7.02 x 5.31 inches

Attribute	Value
OEM Part Numbers	FORD:5022748, FORD:5022749, FORD:890X9601IA, FORD:890X9601JA, FORD:890X9601KA, GMC:25069028, VW:028129607D, VW:034133837BA, VW:050133837A, VW:078133837, VW:131129620, VW:191129607G, VW:191129620, VW:4AO133837D, VW:859129620
Global Trade Identification Number (GTIN)	04009026002711
First Available Date	May 4, 2012

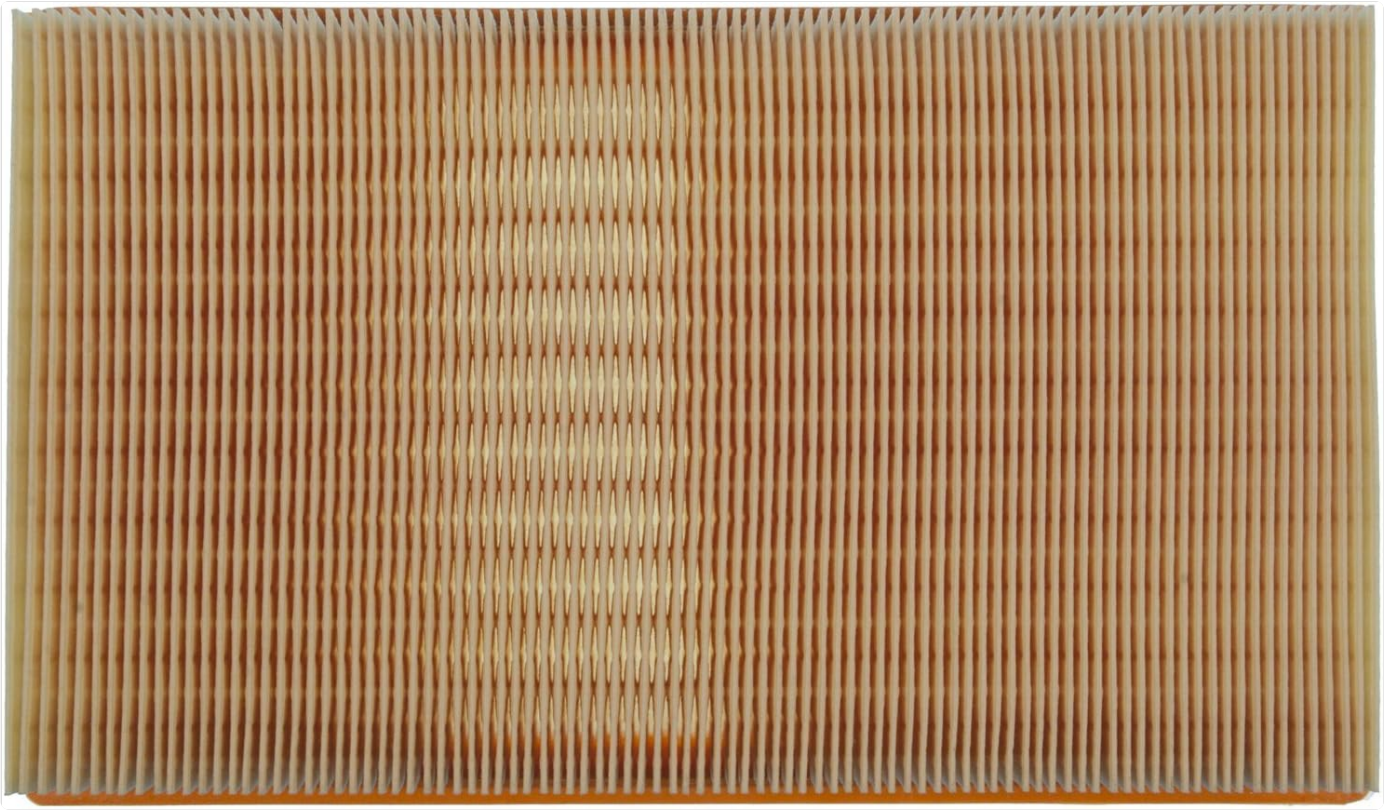


Figure 4: Bottom view of the MAHLE LX 296 Air Filter, showing the sealing gasket.

7. Warranty Information

Specific warranty details for the MAHLE LX 296 Air Filter are not provided in the product information. For warranty inquiries, please refer to the official MAHLE website or contact MAHLE customer support directly. Keep your purchase receipt as proof of purchase.

8. Customer Support

For further assistance, technical support, or questions regarding the MAHLE LX 296 Air Filter, please visit the official MAHLE Store on Amazon or their official corporate website. Always provide the model number (LX296) and any relevant purchase details when seeking support.

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