

MAHLE OX 135/1D ECO

MAHLE OX 135/1D ECO Engine Oil Filter User Manual

Model: OX 135/1D ECO

INTRODUCTION

The MAHLE OX 135/1D ECO Engine Oil Filter is designed to prevent dirt particles from entering the lubricant circuit of your engine. This ensures the maintenance of oil quality, engine performance, and overall efficiency. As an ECO filter, its cartridge is metal-free, allowing for complete incineration and environmentally friendly disposal.

This manual provides essential information regarding the installation, function, maintenance, and specifications of your MAHLE OX 135/1D ECO Engine Oil Filter.





Image: The MAHLE OX 135/1D ECO Engine Oil Filter, showing the filter element and accompanying O-rings for sealing.

SETUP AND INSTALLATION

Proper installation of the engine oil filter is crucial for optimal engine performance and longevity. It is highly recommended that installation be performed by a qualified mechanic or an individual with experience in automotive maintenance. Always consult your vehicle's specific service manual for detailed, model-specific instructions and torque specifications.

General Installation Steps (Consult Vehicle Manual for Specifics):

- 1. Preparation:** Ensure the engine is cool. Place a drain pan beneath the oil filter housing.
- 2. Removal of Old Filter:** Carefully remove the oil filter housing cap. Extract the old filter element and discard it responsibly. Remove and discard the old O-rings from the housing cap and filter housing.
- 3. Cleaning:** Clean the oil filter housing and cap thoroughly, removing any old oil or debris.
- 4. New O-rings:** Lubricate the new O-rings (provided with the filter) with fresh engine oil. Install the larger O-ring onto the filter housing cap and the smaller O-ring onto the filter housing stem, if applicable.
- 5. Install New Filter:** Insert the new MAHLE OX 135/1D ECO filter element into the housing, ensuring it seats correctly.
- 6. Reassembly:** Reinstall the oil filter housing cap, tightening it to the vehicle manufacturer's specified torque. Overtightening can damage the housing or O-rings, leading to leaks.
- 7. Check for Leaks:** Start the engine and allow it to run for a few minutes. Carefully inspect around the oil filter housing for any signs of oil leaks.

8. Check Oil Level: Turn off the engine, wait a few minutes for the oil to settle, and then check the engine oil level. Top up if necessary.







Image: Detailed views of the filter's pleated media, designed for optimal filtration and cold start stability.

OPERATING PRINCIPLES

The MAHLE OX 135/1D ECO Engine Oil Filter operates by filtering contaminants from the engine oil. As oil circulates through the engine, it picks up various particles such as dirt, metal shavings, and combustion byproducts. The filter's media traps these impurities, preventing them from causing wear and damage to critical engine components. Key features contributing to its operation include:

- **Stable Pleat Geometry:** Ensures consistent filtration performance, especially during cold starts.
- **Embossing Bumps:** Prevents the filter media from collapsing or clogging prematurely, maintaining efficiency over time.
- **Pressure Relief Valve (if applicable to housing):** Ensures continuous lubrication to the engine even if the filter becomes partially restricted, by allowing unfiltered oil to bypass the element. Note: This filter is an element, the valve would be part of the housing.
- **Metal-Free Design:** The ECO designation means the filter cartridge is free of metal components, simplifying disposal through incineration.

MAINTENANCE

Regular replacement of your engine oil filter is essential for maintaining engine health. Over time, the filter media becomes saturated with contaminants, reducing its effectiveness and potentially restricting oil flow.

Replacement Schedule:

Refer to your vehicle manufacturer's recommended service intervals for oil and filter changes. This typically ranges from every 3,000 to 10,000 miles or every 3 to 12 months, depending on the vehicle, oil type, and driving conditions.

Disposal:

Used oil filters contain residual oil and trapped contaminants. Dispose of the used filter responsibly according to local environmental regulations. Many automotive service centers and recycling facilities accept used oil filters for proper disposal or recycling.

TROUBLESHOOTING

While the MAHLE OX 135/1D ECO Engine Oil Filter is a passive component, issues can arise, often related to installation or the overall oil system. If you experience any of the following, consult a qualified mechanic:

- **Oil Leaks Around Filter Housing:** This is most commonly caused by improper installation of the O-rings, damaged O-rings, or incorrect tightening of the filter housing cap. Ensure O-rings are properly seated and lubricated, and the cap is torqued to specification.

- **Low Oil Pressure Warning Light:** While less common for a new, properly installed filter, a severely clogged filter (due to extended use beyond recommended intervals or extreme engine contamination) could restrict oil flow and trigger a low oil pressure warning. This could also indicate other engine issues.
- **Unusual Engine Noises:** If the engine develops unusual noises after an oil change, it could indicate lubrication issues. Immediately check oil level and pressure.

Always address oil system warnings promptly to prevent potential engine damage.

SPECIFICATIONS

The following table details the key specifications for the MAHLE OX 135/1D ECO Engine Oil Filter:

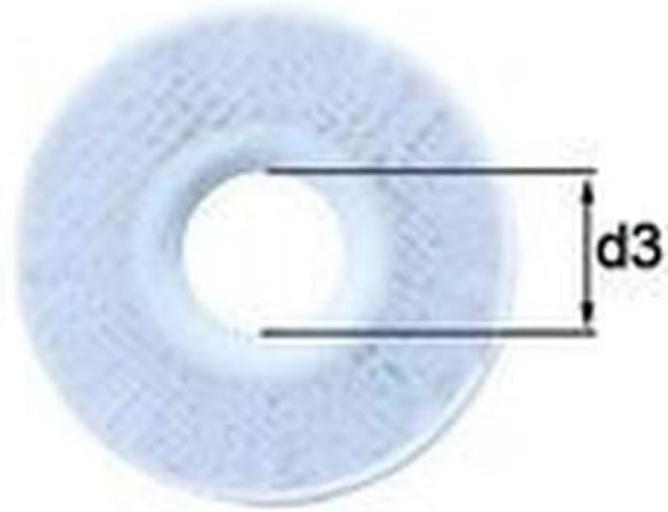
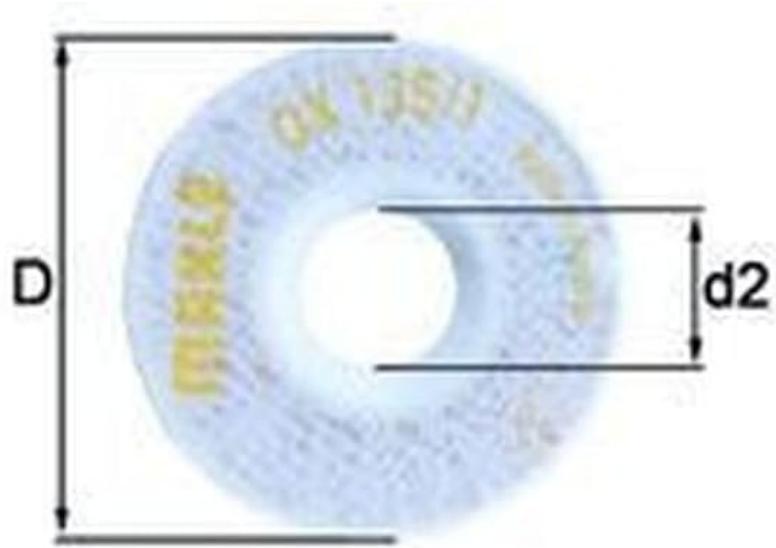


Image: Dimensional diagram of the MAHLE OX 135/1D ECO Engine Oil Filter, indicating height (H) and diameters (D, d2, d3).

Specification	Detail
Brand	MAHLE
Model	OX 135/1D ECO
Material	Cellulose/Synthetic Fiber (Media), Plastic/Aluminum (Housing)
Product Grade	Performance Part
Vehicle Service Type	Car, Motorcycle
Item Dimensions (L x W x H)	2.38 x 2.38 x 3.38 inches
Item Weight	0.16 ounces (approx. 0.01 Pounds)
OEM Part Number	DUCATI MOTORCYCLES:42540061A, MERCEDES-BENZ:1661800009, MERCEDES-BENZ:1661800109, MERCEDES-BENZ:1661800209, MERCEDES-BENZ:1661840225 O.D.
Manufacturer	MAHLE Original

WARRANTY AND SUPPORT

For specific warranty information regarding your MAHLE OX 135/1D ECO Engine Oil Filter, please refer to the documentation provided with your purchase or contact MAHLE directly. Warranty terms typically cover manufacturing defects.

For technical support or further inquiries, please visit the official MAHLE website or contact their customer service department. Always provide your product model number (OX 135/1D ECO) and any relevant purchase details when seeking support.

You can find more information and contact details on the [MAHLE Store on Amazon](#).



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Related Documents - OX 135/1D ECO

 <p>MAHLE ACF-3100 Operation Manual: A/C Flush System Guide</p> <p>Comprehensive operation manual for the MAHLE ACF-3100 A/C Flush unit, detailing component descriptions, safety precautions, flush and purge procedures, filter maintenance, troubleshooting, parts identification, flow diagram, and warranty information.</p>	
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 	<p>MAHLE Refrigerant and Oil Filling Quantities for Cars, Vans, and Trucks (2021-22)</p> <p>A comprehensive guide from MAHLE detailing refrigerant and oil filling quantities for various car, van, and truck models from 2021-22. Includes product features, comparisons of different oil types like PAO and PAG, and safety precautions.</p>
 	<p>Kia Vehicle Dashboard Warning and Indicator Lights Guide</p> <p>A comprehensive guide to understanding the meaning and function of various warning and indicator lights on Kia vehicle dashboards. This document explains each symbol and provides recommended actions for drivers.</p>
	<p>Volkswagen Cabriolet Tune-Up Guide: Spark Plugs & Air Filter Replacement</p> <p>A comprehensive DIY guide for Volkswagen Cabriolet owners on performing essential tune-up maintenance, including detailed steps for changing spark plugs and replacing the air filter, along with maintenance schedules and troubleshooting tips.</p>
	<p>ECO-WORTHY Linear Actuator Installation and Specifications</p> <p>This document provides detailed specifications, installation instructions, and safety warnings for the ECO-WORTHY Linear Actuator. It covers product features, mounting guidelines, and electrical connections for various models.</p>
 	<p>Salsa Confluence Ebikemotion X35 Supplemental Manual</p> <p>This supplemental manual provides essential safety, performance, and service information for the Salsa Confluence electric bicycle featuring the Mahle Ebikemotion X35 system. Learn about system components, maintenance, operation, and troubleshooting.</p>