MAHLE OC 91

MAHLE OC 91 Oil Filter User Manual

Model: OC 91 | Brand: MAHLE

Introduction

The MAHLE OC 91 Oil Filter is designed to prevent dirt particles from entering the lubricant circuit, thereby maintaining the quality, performance, and efficiency of your engine. This manual provides essential information for the proper use and maintenance of your oil filter.



Image: The MAHLE OC 91 Oil Filter alongside its blue and white packaging.

Product Features

- **Superior Embossed and Pleated Filter Media:** Designed for high dirt holding capacity and low pressure drop, ensuring optimal filtration.
- **OEM Specifications:** Every MAHLE Original oil filter is engineered to meet vehicle manufacturers' (OEM) specifications and high safety standards.
- **Superior Structural Integrity:** Constructed with high-quality sheet metal, endplates, and seaming for enhanced durability.
- **Pressure Relief Valve:** Ensures continuous lubrication to the engine at all times, even under extreme conditions.
- **Anti-Drain Check Valve:** Where applicable, this feature prevents oil from draining out of the filter when the engine is off, ensuring immediate lubrication upon startup.



Image: A close-up front view of the MAHLE OC 91 Oil Filter, showing its robust metal casing and branding.

Setup and Installation

Proper installation of the MAHLE OC 91 Oil Filter is crucial for optimal engine performance and longevity. Always refer to your vehicle's service manual for specific instructions and torque specifications.

1. **Prepare the Vehicle:** Ensure the engine is cool. Park the vehicle on a level surface and engage the parking brake. For safety, use jack stands if lifting the vehicle.
2. **Drain Old Oil:** Place a drain pan under the oil drain plug. Remove the drain plug and allow all old oil to drain completely.
3. **Remove Old Filter:** Position the drain pan under the old oil filter. Use an appropriate oil filter wrench to loosen and remove the old filter. Be prepared for additional oil to drain.
4. **Prepare New Filter:** Apply a thin film of new engine oil to the rubber gasket of the new MAHLE OC 91 filter. This ensures a proper seal.
5. **Install New Filter:** Hand-tighten the new filter onto the engine until the gasket makes contact with the engine block. Then, tighten an additional 3/4 to 1 full turn, or as specified by your vehicle's manufacturer. Do not overtighten.
6. **Refill Engine Oil:** Replace the oil drain plug (with a new crush washer if required). Refill the engine with the recommended type and amount of new engine oil.
7. **Check for Leaks:** Start the engine and let it run for a few minutes. Check for any oil leaks around the new filter and drain plug. Turn off the engine and recheck the oil level.



Image: A side view of the MAHLE OC 91 Oil Filter, displaying torque specifications and installation indicators.

Your browser does not support the video tag. This video provides a visual overview of the MAHLE oil filter's internal components and how they function to ensure filtration. It highlights the steel housing, internal support frame, filter element, bypass valve, anti-drain valves, and sealing ring, demonstrating their roles in maintaining oil quality and engine efficiency.

Video: MAHLE Original Oil Filters - Filtration Perfected. This video illustrates the internal structure and function of MAHLE oil filters, detailing components like the steel housing, filter element, and various valves that ensure optimal oil quality and engine protection.

Your browser does not support the video tag. This video demonstrates the use of an oil filter wrench for removal, which can be helpful for accessing and replacing oil filters in tight spaces.

Video: OXCANO 76 mm x 12 flutes Oil Filter Wrench Removal tool. This video shows the process of using a specific oil filter wrench for removal, which can be useful for oil filter changes.

Operating Principles

The MAHLE OC 91 Oil Filter operates by continuously filtering engine oil, removing harmful contaminants such as dirt, metal particles, and sludge. This ensures that clean oil circulates throughout the engine, lubricating moving parts and preventing premature wear. The filter's design, including its pleated media and internal valves, is optimized to maintain consistent oil flow and pressure, even during cold starts or under heavy load conditions.

Maintenance

Regular replacement of your oil filter is essential for maintaining engine health. The MAHLE OC 91 Oil Filter should be replaced according to your vehicle manufacturer's recommendations, typically during every oil change. Factors such as driving conditions (e.g., frequent short trips, heavy towing, dusty environments) may necessitate more frequent changes. Always use a new filter and gasket during each oil change to ensure proper sealing and filtration efficiency.

Troubleshooting

If you encounter issues after installing your MAHLE OC 91 Oil Filter, consider the following common troubleshooting steps:

- **Oil Leaks:** Check if the filter is properly tightened. Ensure the old gasket was completely removed and the new gasket was lightly oiled before installation. Overtightening or undertightening can cause leaks.
- **Low Oil Pressure:** Verify the oil level is correct. If the issue persists, ensure the correct filter model was installed and that it is not clogged (unlikely with a new filter). Consult a professional if the problem continues.
- **Incorrect Fit:** Double-check that the MAHLE OC 91 is the correct filter for your specific vehicle model. Refer to your vehicle's manual or a reputable parts catalog.

For persistent issues, it is recommended to consult a certified mechanic.

Specifications

Attribute	Value
Brand	MAHLE
Model	OC 91
Material	Resin
Product Grade	Performance Part
Vehicle Service Type	Car
Item Dimensions (L x W x H)	9.96 x 7.02 x 5.31 inches
Item Weight	8.9 ounces (252.24 Grams)
OEM Part Numbers	BMW:11001300053, BMW:11421460327, BMW:11421460697, BMW:11421460833, BMW:11421460845, BMW:11421460858, BMW:1460858

Manufacturer	Mahle
Number of Items	1
Automotive Fit Type	Vehicle Specific Fit
Date First Available	November 30, 2012



Image: The MAHLE OC 91 Oil Filter box held in a hand, illustrating its compact dimensions.

What's in the Box

- Oil Filter (MAHLE OC 91)

Warranty and Support

For specific warranty information regarding your MAHLE OC 91 Oil Filter, please refer to the documentation provided with your purchase or contact MAHLE customer support directly. General product support and technical assistance can often be found on the official MAHLE website or through authorized distributors.

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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.

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