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MAHLE OC 500

MAHLE OC 500 Oil Filter Instruction Manual

Brand: MAHLE

Model: OC 500

1. PRODUCT OVERVIEW

The MAHLE OC 500 Oil Filter is engineered to provide superior filtration for your vehicle's engine. It plays a crucial role in maintaining the purity of the engine oil by capturing harmful contaminants such as dirt particles, metal shavings, and sludge. This ensures optimal lubrication, protects internal engine components from wear, and contributes to the overall performance and longevity of the engine.



Figure 1: Front view of the MAHLE OC 500 Oil Filter, showcasing its robust construction.

2. KEY FEATURES

- **Superior Filtration Media:** Features embossed and pleated filter media designed for high dirt holding capacity and minimal pressure drop, ensuring efficient oil flow and contaminant removal.
- **OEM Standard Compliance:** Each MAHLE Original oil filter is manufactured to meet or exceed vehicle manufacturers' (OEM) specifications and high safety standards, guaranteeing reliable performance.
- **Robust Construction:** Built with superior structural integrity through high-quality sheet metal, endplates, and seaming, providing durability under various operating conditions.
- **Pressure Relief Valve:** Incorporates a pressure relief valve to ensure continuous lubrication of the engine, even if the filter media becomes clogged.
- **Anti-Drain Check Valve:** Includes an anti-drain check valve (where applicable) to prevent oil from draining out of the filter when the engine is off, ensuring immediate lubrication upon startup.



Figure 2: Side view of the MAHLE OC 500 Oil Filter, showing manufacturing details and specifications.

3. INSTALLATION GUIDE

Proper installation is crucial for the effective operation of your MAHLE OC 500 Oil Filter. Always refer to your vehicle's specific service manual for detailed instructions and safety precautions. The following is a general guide:

- 1. Safety First:** Ensure the vehicle is parked on a level surface, the engine is cool, and the parking brake is engaged. Use jack stands if lifting the vehicle.
- 2. Drain Old Oil:** Place a suitable drain pan under the oil drain plug. Remove the drain plug and allow all old engine oil to drain completely.
- 3. Remove Old Filter:** Locate the old oil filter. Use an appropriate oil filter wrench to loosen and remove it. Be prepared for residual oil to drain from the filter.
- 4. Prepare New Filter:** Apply a thin film of new engine oil to the rubber gasket of the new MAHLE OC 500 filter. This helps ensure a proper seal.
- 5. Install New Filter:** Thread the new filter onto the engine by hand. Once the gasket makes contact with the engine block, tighten it an additional 3/4 to 1 full turn, or as specified by your vehicle's manufacturer. Do not overtighten.

6. **Refill Engine Oil:** Reinstall the oil drain plug with a new crush washer (if applicable) and tighten to specifications. 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 the drain plug. Turn off the engine, wait a few minutes, and check the oil level again, adding more if necessary.

For a visual understanding of MAHLE oil filter components and their benefits, please watch the video below:

Your browser does not support the video tag.

Video: An overview of MAHLE Original Oil Filters, detailing their internal components and the engineering behind their filtration capabilities. This video highlights the robust design and features that ensure optimal engine protection and performance.

4. OPERATING PRINCIPLES

The MAHLE OC 500 Oil Filter operates as an integral part of your engine's lubrication system. As the engine runs, the oil pump circulates engine oil through the filter. The filter's media traps contaminants, allowing only clean oil to return to the engine's vital moving parts. This continuous filtration process is essential for preventing abrasive wear and maintaining the chemical integrity of the oil.

5. MAINTENANCE AND REPLACEMENT

To ensure the continued health and performance of your engine, regular oil and filter changes are necessary. The MAHLE OC 500 Oil Filter should be replaced according to your vehicle manufacturer's recommended service schedule, typically at every oil change interval. Adhering to these intervals prevents the filter from becoming saturated with contaminants, which could lead to reduced oil flow or bypass, compromising engine protection.

6. TROUBLESHOOTING

If you encounter issues after installing your MAHLE OC 500 Oil Filter, consider the following common troubleshooting steps:

- **Oil Leakage:** If you observe oil leaking from around the filter, immediately turn off the engine. Check if the filter is tightened correctly. Ensure that the old filter's rubber gasket was removed and is not stuck to the engine block, as this can prevent a proper seal with the new filter.
- **Low Oil Pressure Light:** If the low oil pressure warning light illuminates after starting the engine, turn off the engine immediately. Check the oil level and ensure it is at the correct mark. Verify that the filter is securely installed and there are no leaks. If the issue persists, consult a qualified mechanic.

7. SPECIFICATIONS

Brand	MAHLE
Model	OC 500
Material	Paper, Steel
Product Grade	Performance Part
Vehicle Service Type	Car
Item Dimensions (L x W x H)	9.96 x 7.02 x 5.31 inches

Thread Size	M16 x 1.5
Item Weight	10.5 ounces (298 Grams)
OEM Part Number	SUBARU:15208AA030, SUBARU:15208AA031
UPC	027067833921

8. WARRANTY AND SUPPORT

For detailed warranty information, product support, or technical assistance regarding your MAHLE OC 500 Oil Filter, please visit the official MAHLE website or contact MAHLE customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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