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MAHLE OX 358D ECO

MAHLE OX 358D ECO Oil Filter User Manual

Model: OX 358D ECO | Brand: MAHLE

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the MAHLE OX 358D ECO Oil Filter. Adhering to these instructions will help ensure the optimal performance and longevity of your vehicle's engine lubrication system.

The MAHLE OX 358D ECO Oil Filter is designed to prevent dirt particles from entering the lubricant circuit, thereby maintaining the quality, performance, and efficiency of the engine. It features superior embossed and pleated filter media for high dirt holding capacity and low pressure drop, ensuring consistent lubrication.

2. Safety Information

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in personal injury or damage to the vehicle.

- Ensure the vehicle is parked on a level surface and the engine is cool before beginning any work.
- Use appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your vehicle's service manual for specific oil change procedures and torque specifications.
- Dispose of used oil and filters responsibly according to local regulations.
- Keep out of reach of children.

3. Setup and Installation

Proper installation is critical for the effective functioning of the oil filter. The MAHLE OX 358D ECO is an element-type oil filter, typically requiring replacement of the filter element and associated seals within a reusable housing.

3.1 Components Overview



Image 3.1.1: The MAHLE OX 358D ECO oil filter element shown with its packaging and a new O-ring, which is essential for a proper seal during installation.

3.2 Installation Steps

1. **Prepare the Vehicle:** Lift the vehicle safely using jack stands or a lift. Place a drain pan beneath the oil pan.
2. **Drain Engine Oil:** Locate and remove the oil drain plug to allow the old engine oil to drain completely.
3. **Remove Old Filter Element:** Locate the oil filter housing. Using an appropriate wrench, carefully unscrew the oil filter housing cap. Remove the old filter element and the old O-ring from the cap and/or housing.
4. **Clean Housing:** Clean the oil filter housing and cap thoroughly, removing any debris or old oil residue.
5. **Install New O-ring:** Lubricate the new O-ring (supplied with the filter) with fresh engine oil. Install the new O-ring onto the oil filter housing cap. Ensure it is seated correctly in its groove.
6. **Install New Filter Element:** Insert the new MAHLE OX 358D ECO filter element into the housing or onto the cap, depending on the vehicle's design. Ensure it clicks or seats firmly into place.

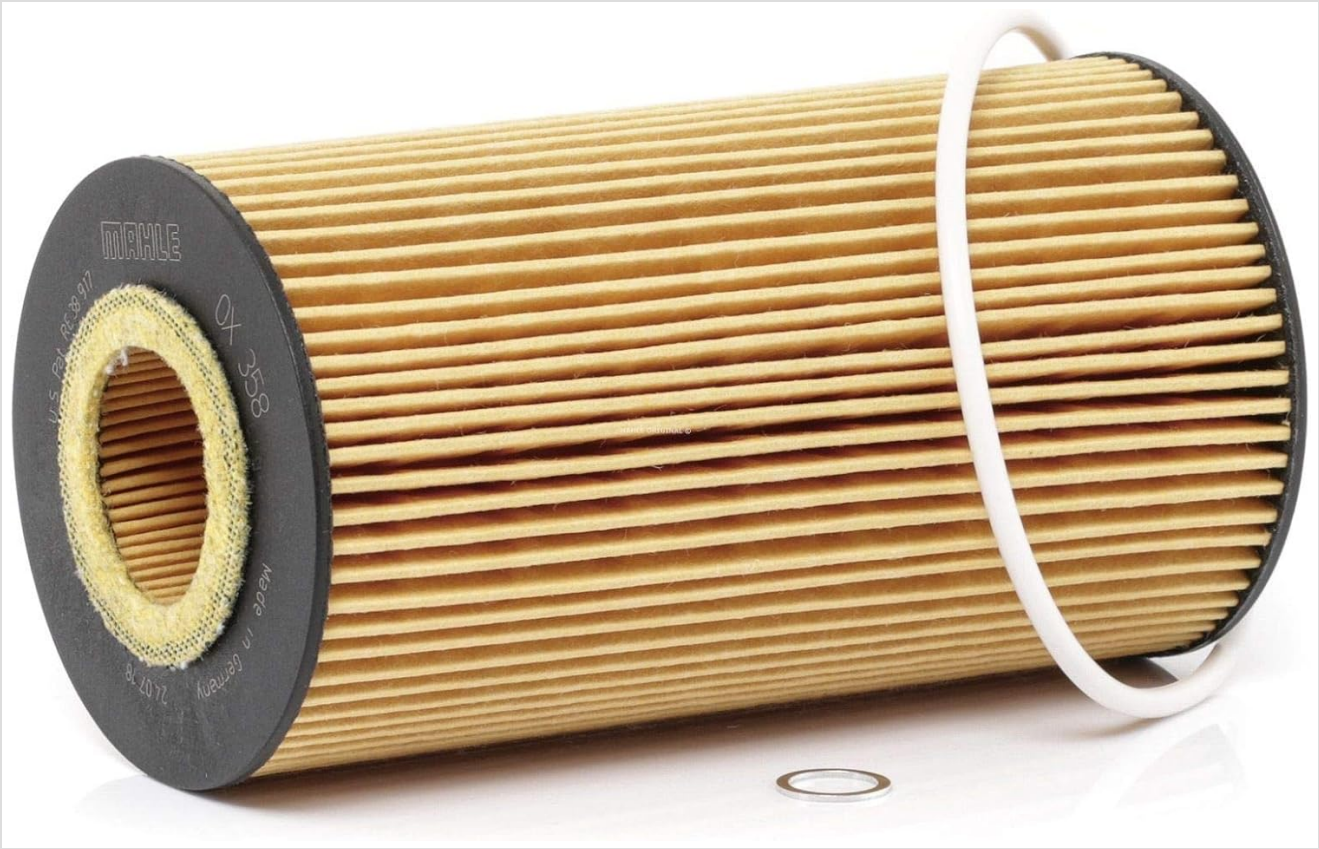


Image 3.2.1: A close-up view of the MAHLE OX 358D ECO oil filter element, highlighting its pleated media and structural integrity, ready for installation.

7. **Reinstall Housing Cap:** Carefully screw the oil filter housing cap back into place. Tighten it to the vehicle manufacturer's specified torque. **Do not overtighten.**
8. **Replace Drain Plug:** Reinstall the oil drain plug with a new crush washer (if applicable) and tighten to specifications.
9. **Refill Engine Oil:** Refill the engine with the recommended type and quantity of fresh engine oil.
10. **Check for Leaks:** Start the engine and let it run for a few minutes. Check for any oil leaks around the oil filter housing and drain plug. Turn off the engine, wait a few minutes, and check the oil level, adding more if necessary.

4. Operation

Once installed, the MAHLE OX 358D ECO Oil Filter continuously works to purify the engine oil. Its advanced filter media captures harmful contaminants such as dirt, metal particles, and sludge, preventing them from circulating through the engine's vital components. This ensures that the engine receives clean, lubricated oil, which is crucial for reducing wear, maintaining performance, and extending engine life.
The filter's design, including its pressure relief valve (where applicable), ensures that oil flow is maintained even under extreme conditions or if the filter becomes partially clogged, preventing oil starvation. The anti-drain check valve (where applicable) helps to keep oil in the filter after the engine is shut off, ensuring immediate lubrication upon startup.

5. Maintenance

The MAHLE OX 358D ECO Oil Filter is a maintenance item designed for periodic replacement. Regular replacement is essential to maintain engine health and performance.

- **Replacement Interval:** Always follow your vehicle manufacturer's recommended oil change and filter replacement intervals. These intervals are typically specified in your vehicle's owner's manual.
- **Signs of a Clogged Filter:** While regular replacement prevents most issues, signs of a severely clogged filter can include reduced engine performance or illuminated oil pressure warning lights. However, it is best practice to replace

the filter before these symptoms occur.

- **Replacement Procedure:** Refer to Section 3, "Setup and Installation," for detailed steps on replacing the oil filter element. Always use a new MAHLE OX 358D ECO filter and new O-rings during replacement.

6. Troubleshooting

Most issues related to oil filters stem from incorrect installation. If you encounter problems after replacing your oil filter, consider the following:

- **Oil Leakage:** If oil leaks are observed around the filter housing, immediately turn off the engine. Check if the oil filter housing cap is tightened to the correct torque and if the O-ring is properly seated and undamaged. A damaged or improperly installed O-ring is a common cause of leaks.
- **Low Oil Pressure Warning:** If the oil pressure warning light illuminates after an oil change, immediately turn off the engine. Check the oil level. If the level is correct, ensure the filter element is correctly installed and the housing cap is securely tightened. Consult a qualified mechanic if the issue persists.
- **Incorrect Filter Type:** Ensure that the MAHLE OX 358D ECO is the correct filter for your specific vehicle model. Using an incorrect filter can lead to improper fitment and poor filtration.

7. Specifications

The following specifications apply to the MAHLE OX 358D ECO Oil Filter:

Attribute	Value
Brand	MAHLE
Model	OX 358D ECO
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	3.2 ounces
OEM Part Number	077115401AA
Manufacturer Part Number	70318036
UPC	027067000538

8. Warranty and Support

For warranty information or technical support regarding your MAHLE OX 358D ECO Oil Filter, please refer to the official MAHLE website or contact MAHLE customer service directly. Keep your purchase receipt as proof of purchase.
You can visit the MAHLE Store on Amazon for more product information.

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