

[Manuals.plus](#) /

› [Mann Filter](#) /

› Mann Filter W1170 Spin-On Oil Filter User Manual

Mann Filter W1170

Mann Filter W1170 Spin-On Oil Filter User Manual

Model: W1170 | Brand: Mann Filter

INTRODUCTION

The Mann Filter W1170 Spin-On Oil Filter is designed to provide superior filtration for your vehicle's engine oil, ensuring optimal engine performance and longevity. This manual provides essential information for the proper installation, maintenance, and understanding of your oil filter.

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Refer to your vehicle's service manual for specific safety precautions. Ensure the engine is cool before beginning any work. Wear appropriate personal protective equipment, including gloves and eye protection. Dispose of used oil and filters responsibly according to local regulations.

INSTALLATION

Proper installation is critical for the effective operation of the oil filter. Always consult your vehicle's manufacturer service manual for detailed, vehicle-specific instructions.

- Preparation:** Park the vehicle on a level surface and engage the parking brake. Allow the engine to cool completely. Place a drain pan under the oil drain plug.
- Drain Old Oil:** Remove the oil drain plug and allow all old engine oil to drain completely. Reinstall and tighten the drain plug to the manufacturer's specifications.
- Remove Old Filter:** Locate the old oil filter. Use an appropriate oil filter wrench to loosen and remove the old filter. Be prepared for residual oil to drain from the filter.
- Prepare New Filter:** Apply a thin film of new engine oil to the rubber gasket of the Mann Filter W1170. This ensures a proper seal.
- Install New Filter:** Carefully screw the new Mann Filter W1170 onto the engine's filter housing by hand. Once the gasket makes contact with the engine block, tighten the filter an additional 3/4 to 1 full turn, or as specified by your vehicle's manufacturer. *Do not overtighten.*

6. **Refill Engine Oil:** Add the recommended type and quantity of new engine oil to your vehicle's engine.
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 and recheck the oil level, adding more if necessary.





Figure 1: Mann Filter W1170 Spin-On Oil Filter. Note the integrated installation diagrams on the filter body, indicating steps for removal and tightening.

OPERATING PRINCIPLES

Once installed, the Mann Filter W1170 continuously filters engine oil as it circulates through the engine. Its primary function is to remove contaminants such as dirt, metal particles, and sludge, preventing them from causing wear and damage to engine components. The integrated bypass valve, with an opening pressure of 1.2 bar, ensures oil flow to the engine even if the filter element becomes clogged, preventing oil starvation.

MAINTENANCE

The oil filter should be replaced at every oil change, or as recommended by your vehicle manufacturer. Regular replacement ensures consistent filtration performance and protects your engine from harmful contaminants. Refer to your vehicle's owner's manual for recommended oil change intervals.

TROUBLESHOOTING

- **Oil Leakage After Installation:**

Possible Causes: Improperly tightened filter, damaged or misaligned gasket, old gasket stuck to engine block, or incorrect filter application.

Solution: Ensure the old gasket is removed. Verify the new gasket is properly seated and lubricated. Tighten the filter by hand until the gasket contacts the engine block, then turn an additional 3/4 to 1 full turn. If leaks persist, remove the filter, inspect for damage, and replace if necessary. Always ensure the correct filter model is used for your vehicle.

- **Low Oil Pressure Warning:**

Possible Causes: Severely clogged filter (unlikely for a new filter), incorrect oil level, or other engine issues.

Solution: Check oil level immediately. If the filter is new, ensure it was installed correctly. If the warning persists, consult a qualified mechanic.

SPECIFICATIONS

The Mann Filter W1170 Spin-On Oil Filter is engineered to precise standards. Key specifications are listed below:

Attribute	Value
Model Number	W1170

Attribute	Value
Brand	Mann Filter
Bypass Valve Opening Pressure	1.2 bar
Height	227 mm
Inner Diameter 1	62 mm
Inner Diameter 2	71 mm
Outer Diameter	108 mm
Thread Size	1-12 UNF
Material	Papier (Paper)
Item Weight	1.08 Kilograms (2.38 pounds)
Product Dimensions (L x W x H)	8.94 x 4.25 x 8.94 inches





Figure 2: Dimensional drawing of the Mann Filter W1170, showing key measurements (A, B, C, G, H) for fitment verification.

ADDITIONAL INFORMATION

Mann Filter is a global leader in filtration technology, providing high-quality filters for a wide range of applications. The W1170 is part of their extensive product line designed for reliability and performance.



Figure 3: A selection of Mann Filter products, highlighting the brand's commitment to Original Equipment (OE) quality.

WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Mann Filter W1170, please refer to the official Mann Filter website or contact their customer service. Always ensure you purchase genuine Mann Filter products from authorized distributors.

You can visit the official Mann Filter store for more information: [Mann Filter Store on Amazon](#)