

Bosch 5413WS

BOSCH 5413WS Workshop Engine Air Filter Instruction Manual

Model: 5413WS | Brand: Bosch

1. PRODUCT OVERVIEW

The Bosch 5413WS Workshop Engine Air Filter is designed to protect your engine from harmful contaminants, ensuring optimal performance and fuel efficiency. Dirty air filters can lead to decreased fuel mileage, increased engine wear, and starting issues. Regular replacement with a high-quality Bosch Workshop engine air filter helps maintain engine health and efficiency.



Image 1.1: The Bosch 5413WS Workshop Engine Air Filter, showing its pleated media and black sealing frame.

2. KEY FEATURES

- **Robust Particle Holding Capacity:** Constructed with a high number of pleats to effectively capture and hold particles.

- **98% Filtration Efficiency:** Designed to remove small particles from incoming air, guarding against engine wear.
- **Optimized Airflow:** High velocity cellulose cured media provides minimum air resistance and ensures even pleat distance for optimum efficiency.
- **Durable Seal:** A high-quality polyurethane foam seal offers elasticity and sealing performance, protecting against water and heat intrusion into the air intake system.
- **Engine Protection:** Ensures only the cleanest air reaches the engine for strong protection, high-performance, and better fuel efficiency.
- **Vehicle Specific Fit:** Compatible with select vehicles, including FORD: 2010-14 Mustang. Always verify specific vehicle fitment.



Image 2.1: Visual representation of the filter's high-quality seal and 98% filtration efficiency.

3. PACKAGE CONTENTS

Upon opening the package, you should find the following item:

- 1 x Bosch Workshop Engine Air Filter (Model 5413WS)



Image 3.1: The Bosch 5413WS Engine Air Filter shown with its retail packaging.

4. INSTALLATION INSTRUCTIONS

Safety First: Always ensure your vehicle's engine is off and cool before attempting any maintenance. Refer to your vehicle's owner's manual for specific instructions and safety precautions.

1. **Locate the Air Filter Housing:** The engine air filter is typically located in a black plastic housing under the hood, connected to the engine's intake system.

- 2. Open the Housing:** Depending on your vehicle model, the housing may be secured with clips, screws, or a combination of both. Unfasten these to open the housing.
- 3. Remove the Old Filter:** Carefully lift out the old, dirty air filter. Note its orientation for correct installation of the new filter.
- 4. Clean the Housing:** Wipe away any debris or dust from inside the air filter housing before installing the new filter.
- 5. Install the New Filter:** Place the new Bosch 5413WS engine air filter into the housing, ensuring it fits snugly and is oriented correctly, matching the position of the old filter. The polyurethane seal should sit flush within the housing.
- 6. Secure the Housing:** Close the air filter housing and fasten all clips or screws securely. Ensure there are no gaps that could allow unfiltered air to enter the engine.
- 7. Verify Fitment:** Double-check that all connections are tight and the housing is properly sealed.

Note: For detailed, vehicle-specific instructions, consult your vehicle's service manual or a qualified mechanic.

5. OPERATION AND MAINTENANCE

The Bosch 5413WS engine air filter operates passively, continuously filtering air as your engine runs. Proper maintenance is key to its effectiveness.

5.1. Inspection

Inspect your engine air filter at every oil change, or approximately every 5,000 to 10,000 miles, depending on driving conditions. Look for:

- Excessive dirt, dust, or debris accumulation.
- Discoloration (dark gray or black).
- Tears or damage to the filter media or seal.

5.2. Replacement

Replace the air filter if it appears dirty, damaged, or according to your vehicle manufacturer's recommended service intervals, typically every 15,000 to 30,000 miles. Driving in dusty or polluted environments may require more frequent replacement.

6. TROUBLESHOOTING

If you experience any of the following symptoms, a dirty or improperly installed engine air filter could be a contributing factor:

- **Decreased Fuel Economy:** A clogged filter restricts airflow, forcing the engine to work harder and consume more fuel.
- **Reduced Engine Performance:** Symptoms may include sluggish acceleration, misfires, or a general lack of power.
- **Unusual Engine Noises:** A whistling or sucking sound from the air intake could indicate an improperly sealed filter housing.
- **Check Engine Light:** In some modern vehicles, a severely restricted air filter can trigger the check engine light.

If these issues persist after inspecting and replacing the air filter, consult a professional mechanic.

7. SPECIFICATIONS

Attribute	Value
Brand	Bosch
Model Number	5413WS
OEM Part Number	5413WS
UPC	077212220458
Item Weight	3.2 ounces
Product Dimensions	9.84 x 2.36 x 12.44 inches
Filtration Efficiency	98%
Filter Media	High velocity cellulose cured media
Seal Material	Polyurethane foam
Automotive Fit Type	Vehicle Specific Fit

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to find additional Bosch automotive parts, please visit the official Bosch Automotive website or contact their customer service. Keep your purchase receipt as proof of purchase.

You can find more information and other Bosch products at the [Bosch Automotive Store on Amazon](#).