

INGQI INGD-204153726542-3

INGQI K20 K24 Valve Cover Breather Filter 18mm Instruction Manual

1. INTRODUCTION

This manual provides essential information for the installation, function, and maintenance of your INGQI K20 K24 Valve Cover Breather Filter. Please read these instructions carefully before proceeding with installation to ensure proper function and longevity of the product.

2. PRODUCT OVERVIEW

The INGQI Valve Cover Breather Filter is designed to prevent oil-saturated crankcase vapors from re-entering your engine's intake system. By filtering these vapors, it helps maintain engine performance and prevents the accumulation of oily residue within the intake manifold. This product is a direct replacement for the factory valve cover vent hose.

Key Features:

- Designed to filter crankcase vapors.
- Helps maintain engine performance.
- Prevents oily residue buildup in the intake manifold.
- 18mm fitting for specific applications.



Image 2.1: Front view of the INGQI K20 K24 Valve Cover Breather Filter, showing the black filter element and the metal clamp on the 18mm inlet.



Image 2.2: Composite image showing the top, side, and bottom views of the breather filter, highlighting its compact design and construction.

3. SETUP AND INSTALLATION

Compatibility:

This valve cover breather filter is compatible with various Honda and Acura models equipped with K-swap engines, including:

- HONDA Civic (Eg, Ek)
- Acura Integra (Dc2)
- Acura RSX
- Engines: K20, K20A, K20Z, K24 (K-SERIES)

Installation Steps:

1. **Preparation:** Ensure the engine is cool and the vehicle is safely parked with the ignition off. Gather necessary tools, which may include a screwdriver or socket wrench for the hose clamp.
2. **Locate the Factory Vent Hose:** Identify the existing valve cover vent hose that connects to the intake system.
3. **Remove the Factory Vent Hose:** Carefully disconnect and remove the factory valve cover vent hose from the valve cover. Be mindful of any clips or clamps securing it.

4. **Install the Breather Filter:** Attach the INGQI Valve Cover Breather Filter to the valve cover's vent port. Ensure a snug fit.
5. **Secure the Clamp:** Use the provided hose clamp to securely fasten the breather filter to the valve cover port. Tighten the clamp sufficiently to prevent air leaks but avoid over-tightening, which could damage the filter or port.
6. **Final Check:** Verify that the filter is firmly in place and all connections are secure.



Image 3.1: Top view of the breather filter, clearly indicating the 18mm inlet diameter, which is crucial for proper fitment.



Image 3.2: Side profile of the breather filter, showing the metal hose clamp securely attached to the inlet, ready for installation.

4. OPERATING PRINCIPLE

The valve cover breather filter operates by allowing crankcase vapors to vent directly to the atmosphere through a filtration medium, rather than recirculating back into the engine's intake system. This process prevents the re-entry of warm, oil-saturated vapors, which can negatively impact combustion efficiency and lead to carbon buildup on intake components. The filter element traps oil particles and other contaminants, ensuring only clean air is released.

5. MAINTENANCE

To ensure optimal performance and longevity of your breather filter, periodic inspection and maintenance are recommended:

- **Regular Inspection:** Visually inspect the filter element for excessive oil saturation or dirt accumulation every 3,000 to 5,000 miles, or during routine oil changes.
- **Cleaning:** If the filter appears dirty but not excessively saturated, it may be cleaned with a mild degreaser and allowed to air dry completely before reinstallation. Avoid using harsh chemicals that could damage the filter material.
- **Replacement:** If the filter element is heavily saturated with oil, clogged, or physically damaged, it should be replaced with a new unit to maintain proper engine ventilation.

6. TROUBLESHOOTING

If you experience any issues after installing the breather filter, consider the following:

- **Loose Connection:** Ensure the filter is securely attached to the valve cover port and the clamp is tightened appropriately. A loose connection can lead to air leaks.
- **Clogged Filter:** A heavily clogged filter can restrict crankcase ventilation, potentially leading to increased crankcase pressure. Inspect and clean or replace the filter if necessary.
- **Incorrect Fitment:** Verify that the 18mm inlet size is correct for your specific valve cover vent port. An incorrect size can lead to poor sealing.

7. SPECIFICATIONS

Product Type	Valve Cover Breather Filter
Brand	INGQI
Model Number	INGD-204153726542-3
Inlet Diameter	18mm
Color	Black
Condition	New

8. WARRANTY AND SUPPORT

This product comes with a **30-day refund policy** and a **3-month replacement satisfaction guarantee warranty**. If you encounter any issues or have questions regarding your INGQI Valve Cover Breather Filter, please contact the seller for assistance. We are committed to resolving any problems you may experience.