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Turbosmart TS-0205-3107

Turbosmart TS-0205-3107 Blow-Off Valve Gasket Instruction Manual

1. Product Overview

The Turbosmart TS-0205-3107 is a replacement gasket designed for specific Turbosmart blow-off valve (BOV) applications. This component is crucial for maintaining an airtight seal between the blow-off valve and its mounting flange, preventing boost leaks and ensuring optimal performance of the turbocharged system.

This gasket is compatible with various Turbosmart products, including:

- TS-0205-2055 (Flange Adapter)
- TS-0205-1009 & TS-0205-1010 (Model Specific BOV)
- TS-0203-1227 & TS-0203-1209 & TS-0203-1210 (Kompact Model Specific BOV)

It is suitable for use with Subaru, Nissan Juke/Pulsar, and Mazda flange applications.

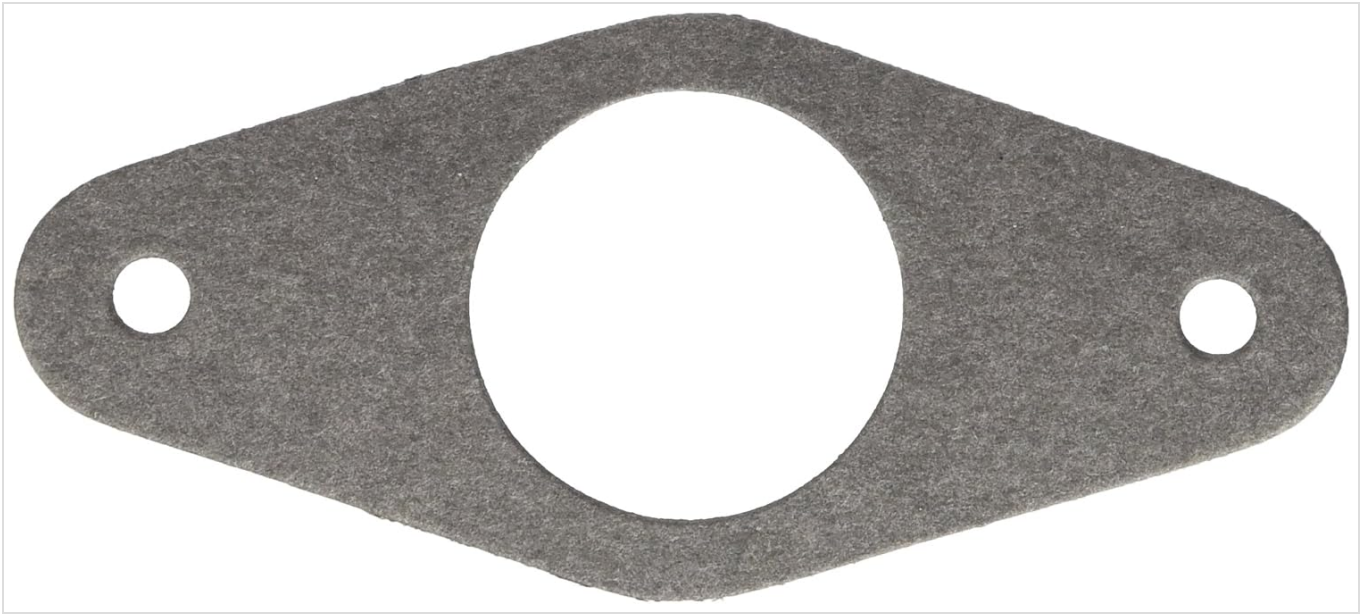


Figure 1: Turbosmart TS-0205-3107 Blow-Off Valve Gasket. This image displays the gasket's oval shape, central circular opening, and two mounting holes.

2. Setup and Installation

Proper installation of the gasket is essential for its function. Always refer to the specific installation instructions provided with your Turbosmart blow-off valve or flange adapter for detailed steps. The following are general guidelines for gasket

replacement:

1. **Preparation:** Ensure the engine is cool and the vehicle is safely secured. Disconnect the battery if necessary.
2. **Removal:** Carefully remove the existing blow-off valve or flange adapter from its mounting location. Note the orientation of the old gasket.
3. **Cleaning:** Thoroughly clean both mating surfaces (on the blow-off valve/adapter and the engine/intercooler) to remove any old gasket material, dirt, oil, or debris. A clean surface is critical for a proper seal.
4. **Placement:** Position the new Turbosmart TS-0205-3107 gasket onto one of the clean mating surfaces. Ensure it is correctly aligned with the bolt holes and the central opening.
5. **Reinstallation:** Reinstall the blow-off valve or flange adapter, ensuring the gasket remains properly seated. Tighten mounting bolts according to the manufacturer's torque specifications to achieve an even and secure seal. Avoid over-tightening, which can damage the gasket or components.
6. **Verification:** After installation, perform a visual inspection to confirm the gasket is not pinched or misaligned.

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3. Operating Principle

The TS-0205-3107 gasket functions as a static seal. Its purpose is to create a leak-proof barrier between two components, specifically the blow-off valve and its mounting surface. In a turbocharged system, this gasket prevents pressurized air (boost) from escaping through the connection point, ensuring that all boost pressure is directed to the engine's intake. A properly sealed system is vital for maintaining engine performance and efficiency.

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4. Maintenance

Gaskets are wear items and should be inspected periodically. The lifespan of a gasket can vary depending on operating conditions, temperature fluctuations, and exposure to chemicals.

- **Inspection:** During any routine maintenance or inspection of your blow-off valve, visually check the gasket for signs of wear, cracking, tearing, compression set, or heat damage.
- **Replacement:** If any signs of damage or degradation are observed, or if boost leaks are suspected, the gasket should be replaced immediately with a new Turbosmart TS-0205-3107 gasket to ensure continued optimal performance.

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5. Troubleshooting

Issues related to the gasket typically manifest as boost leaks. Common symptoms include:

- **Reduced Engine Performance:** A noticeable decrease in power or acceleration, especially under boost.
- **Unusual Noises:** Hissing or whistling sounds from the engine bay, particularly when the turbocharger is spooling.
- **Check Engine Light:** In some cases, a significant boost leak can trigger a check engine light due to incorrect air-fuel ratio readings.

Action: If any of these symptoms occur, inspect the blow-off valve and its gasket. If the gasket appears damaged or compromised, replace it with a new Turbosmart TS-0205-3107 gasket. Ensure all connections are secure and torqued to specifications.

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6. Specifications

Attribute	Detail
Model Number	TS-0205-3107
Brand	Turbosmart
Item Weight	0.32 ounces (approx. 9 grams)
Package Dimensions	10.8 cm (L) x 9.4 cm (W) x 0.8 cm (H)
Country Of Origin	Australia
Shape	Round (with central circular opening and two mounting holes)
Unit Count	1 Count

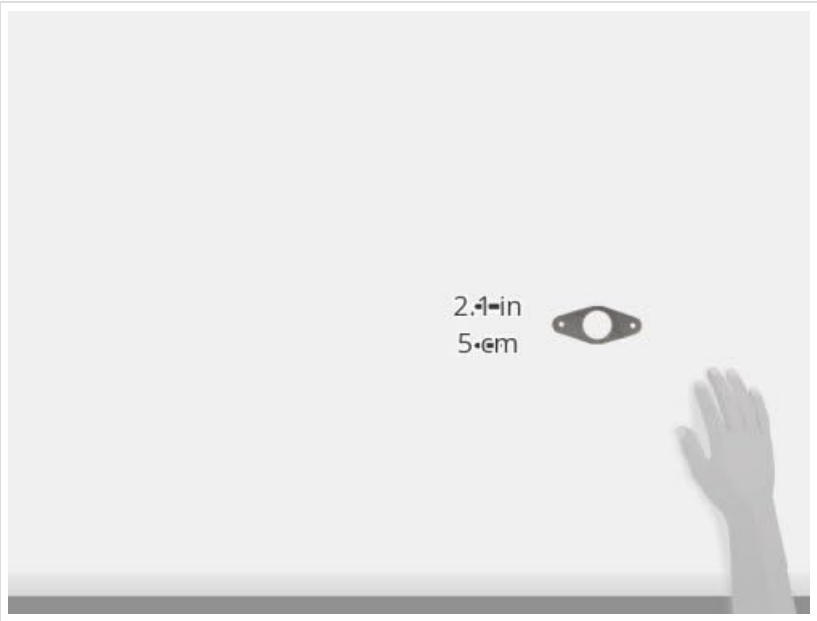


Figure 2: Dimensional representation of the Turbosmart TS-0205-3107 Gasket. This image illustrates the approximate size of the gasket in relation to a hand, with measurements of 2.1 inches and 5 cm indicated. The gasket is oval with a central circular opening.

7. Warranty Information

Warranty information for the Turbosmart TS-0205-3107 Blow-Off Valve Gasket is typically provided with the specific blow-off valve unit it is designed for, or directly by Turbosmart. Please refer to the documentation included with your Turbosmart blow-off valve or visit the official Turbosmart website for detailed warranty terms and conditions.

8. Support

For technical assistance, product inquiries, or further support regarding the Turbosmart TS-0205-3107 Blow-Off Valve Gasket, please contact Turbosmart customer support directly. Visit the official Turbosmart website for up-to-date contact information, frequently asked questions, and additional resources.

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