

COMETIC C3619

Cometic Gasket Top End Gasket Kit C3619

User Instruction Manual

1. INTRODUCTION

This manual provides comprehensive information and instructions for the Cometic Gasket Top End Gasket Kit, model C3619. This kit is designed to provide superior sealing for motorcycle and powersports engine applications, ensuring optimal performance and durability. Please read this manual thoroughly before installation and use to ensure proper application and longevity of the product.

2. PRODUCT OVERVIEW

The Cometic Gasket Top End Gasket Kit C3619 features **EST (Extreme Sealing Technology)**. This advanced technology incorporates embossed stainless steel head, base, and rocker gaskets, which are coated with a proprietary rubber material. The unique head gasket material is engineered to efficiently draw heat away from the combustion ring, distributing it evenly across the gasket surface. This design effectively eliminates hot spots, significantly reducing the risk of gasket failure and enhancing engine reliability.

This kit is specifically designed to fit:

- 2019 KAW KX250
- 2017-2018 KAW KX250F

3. KIT COMPONENTS

The Cometic Gasket Top End Gasket Kit C3619 contains all the necessary gaskets, seals, and O-rings required to rebuild the top end of your engine, from the cylinder base upwards. A typical kit includes:

- Head Gasket (embossed stainless steel with proprietary rubber coating)
- Base Gasket (embossed stainless steel with proprietary rubber coating)
- Rocker Gaskets (embossed stainless steel with proprietary rubber coating)
- Various Seals (e.g., valve stem seals)
- Various O-rings



Figure 3.1: Contents of the Cometic Gasket Top End Gasket Kit C3619. The image displays various gaskets, including a large head gasket, a base gasket, smaller rocker gaskets, several blue valve stem seals, and assorted O-rings and washers, all designed for a complete top-end engine rebuild.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your Cometic Gasket kit. It is highly recommended that installation be performed by a qualified mechanic or an individual with extensive experience in engine assembly.

4.1 Pre-Installation Checklist

- Ensure all mating surfaces (cylinder head, cylinder block, rocker covers) are thoroughly cleaned and free of old gasket material, oil, grease, and debris.
- Inspect all engine components for damage, warpage, or cracks. Address any issues before proceeding.
- Verify that the correct gasket kit (C3619) is being used for your specific engine application (2019 KAW KX250 or 2017-2018 KAW KX250F).
- Have all necessary tools, including torque wrenches, ready.

4.2 Installation Procedure (General Guidelines)

1. Carefully remove old gaskets and clean all surfaces as per the pre-installation checklist.

2. Position the new base gasket onto the cylinder block, ensuring proper alignment with dowel pins and bolt holes.
3. Install the cylinder onto the base gasket, taking care not to damage the gasket.
4. Place the head gasket onto the cylinder, again ensuring precise alignment.
5. Install the cylinder head. Follow the manufacturer's specific torque specifications and tightening sequence for cylinder head bolts. **Incorrect torque can lead to gasket failure.**
6. Install rocker gaskets, seals, and O-rings as required for your specific engine model, following the engine service manual.
7. Double-check all connections and ensure no components are pinched or misaligned.

Note: Always refer to your specific vehicle's service manual for detailed, step-by-step installation instructions, torque specifications, and any special procedures.

5. OPERATING CONSIDERATIONS

Once installed, the Cometic Gasket kit is designed to provide a reliable seal under extreme operating conditions. The EST material's ability to dissipate heat helps maintain engine integrity during high-performance use. After initial installation, it is advisable to follow the engine manufacturer's break-in procedures, if any, to allow all new components, including gaskets, to seat properly.

6. MAINTENANCE

Gaskets are critical sealing components and generally do not require routine maintenance after proper installation. However, regular engine inspections are recommended to identify any potential issues early.

6.1 Inspection

- Periodically check for any signs of fluid leaks (oil, coolant) around the cylinder head, cylinder base, and rocker covers.
- Monitor engine temperature during operation. Unusual overheating could indicate a sealing issue.
- Listen for unusual engine noises that might suggest internal component issues related to sealing.

Note: If any signs of gasket failure are observed, it is crucial to address them immediately to prevent further engine damage.

7. TROUBLESHOOTING

While Cometic Gaskets are designed for high reliability, issues can sometimes arise, often due to improper installation or underlying engine problems. Here are common issues and potential causes:

Symptom	Possible Cause	Action
Oil/Coolant Leakage	Improper torque, damaged gasket during installation, warped mating surface, incorrect gasket type.	Inspect for source of leak. Re-torque bolts if applicable (consult service manual). If leak persists, disassemble and inspect gasket and mating surfaces for damage or warpage. Replace gasket if necessary.
Overheating	Head gasket failure (allowing combustion gases into cooling system), coolant passage blockage.	Perform cooling system pressure test. Check for exhaust gases in coolant. If head gasket is suspected, professional diagnosis and replacement are required.

Symptom	Possible Cause	Action
Loss of Compression	Head gasket failure (between cylinders or to atmosphere), improper valve seal.	Perform a compression test or leak-down test. If head gasket is the cause, replacement is necessary.

For complex issues, it is always recommended to consult a professional engine technician or refer to the detailed service manual for your specific vehicle.

8. SPECIFICATIONS

Key specifications for the Cometic Gasket Top End Gasket Kit C3619 and related product details:

- Manufacturer:** Cometic Gasket
- Brand:** COMETIC
- Model:** EST Top End Gasket Kit - 78mm
- Item Weight:** 2.56 ounces
- Product Dimensions:** 7 x 6 x 0.3 inches
- Manufacturer Part Number:** C3619
- ASIN:** B07142PTD7
- First Available Date:** January 21, 2017

9. WARRANTY AND SUPPORT

For specific warranty information regarding the Cometic Gasket Top End Gasket Kit C3619, please refer to the official Cometic Gasket website or contact their customer service directly. Warranty terms typically cover manufacturing defects but may not cover issues arising from improper installation, misuse, or normal wear and tear. For technical support or further inquiries, please visit the [COMETIC brand page on Amazon](#) or the official Cometic Gasket manufacturer website.