

COMETIC C7244

Cometic C7244 Top End Gasket Kit Instruction Manual

For Kawasaki KLR250 (1985-2005)

Introduction	Safety Information	Package Contents	Installation	Post-	
Installation	Maintenance	Troubleshooting	Specifications	Warranty	Support

1. INTRODUCTION

This instruction manual provides essential information for the proper installation and maintenance of your Cometic C7244 Top End Gasket Kit. This kit is specifically designed for Kawasaki KLR250 motorcycles manufactured between 1985 and 2005. Adhering to these instructions will help ensure optimal performance and longevity of your engine's top end components.

Cometic Gasket products are engineered for precision and durability, utilizing high-quality materials to meet or exceed original equipment specifications. For best results, professional installation is highly recommended.

2. SAFETY INFORMATION

- WARNING:** Always prioritize safety when working on your motorcycle. Failure to follow safety precautions can result in serious injury or damage to the vehicle.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing.
 - Ensure the motorcycle is stable and securely supported before beginning any work.
 - Allow the engine to cool completely before handling any components. Hot engine parts can cause severe burns.
 - Work in a well-ventilated area.
 - Keep all tools and parts organized to prevent accidents.
 - Refer to your motorcycle's official service manual for specific torque specifications and procedures.
 - Dispose of old gaskets and fluids responsibly according to local regulations.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package. The Cometic C7244 Top End Gasket Kit typically includes all necessary gaskets for a complete top-end rebuild.

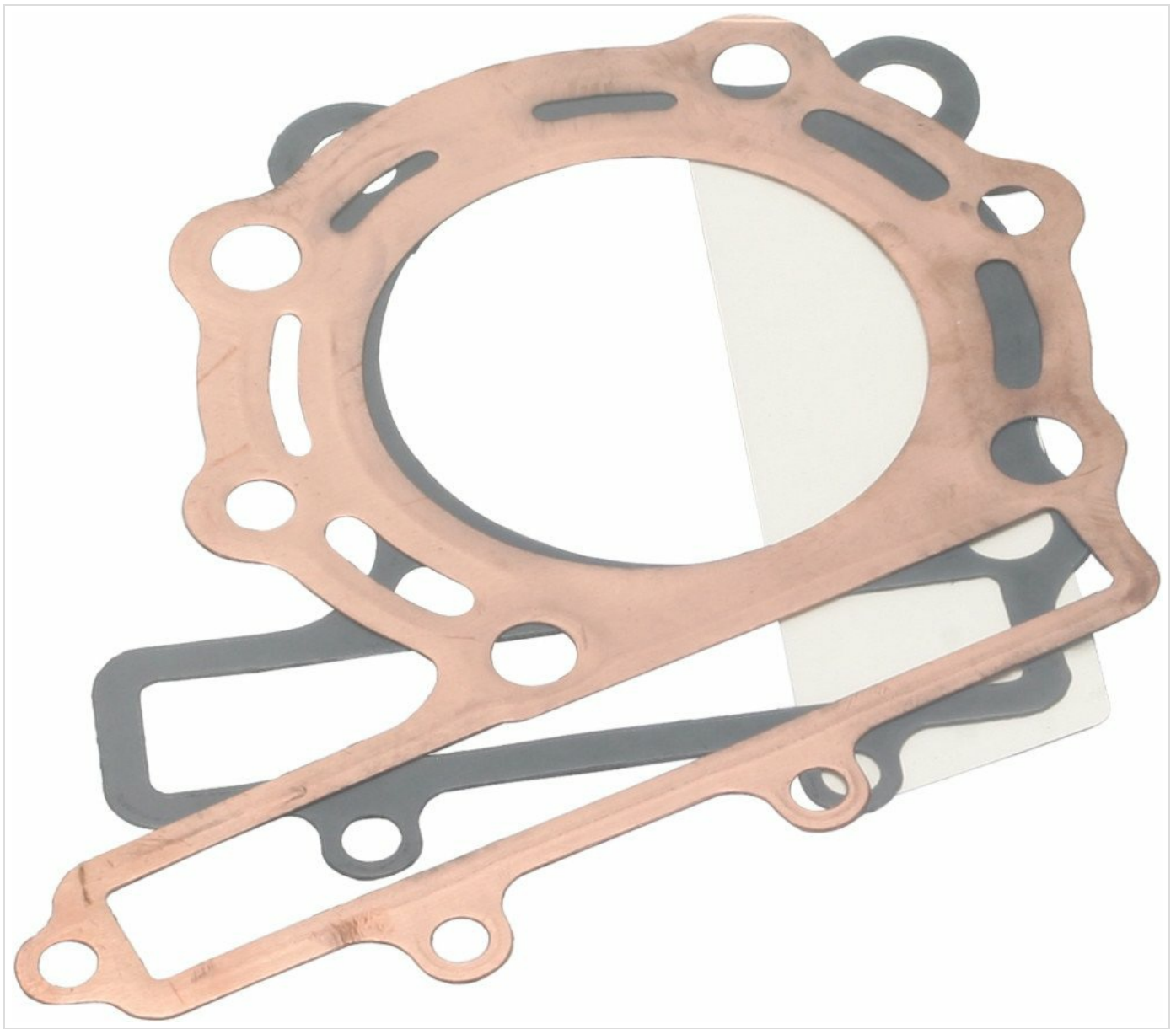


Image 1: Contents of the Cometic C7244 Top End Gasket Kit. This image displays various gaskets and seals included in the kit, typically comprising head gaskets, base gaskets, valve stem seals, and other necessary components for a top-end engine rebuild.

The kit contains the specific gaskets required for the cylinder head, cylinder base, and other related top-end components of the Kawasaki KLR250 engine.

4. INSTALLATION

Installation of a top-end gasket kit requires mechanical expertise and specialized tools. If you are not confident in your ability to perform this procedure, it is strongly recommended to seek assistance from a qualified motorcycle mechanic.

4.1 Preparation

1. Ensure the engine is completely cool.
2. Disconnect the battery to prevent accidental starting.
3. Drain engine oil and coolant as necessary, following your motorcycle's service manual.
4. Remove all components obstructing access to the cylinder head and cylinder, such as the fuel tank, carburetor, exhaust system, and valve cover.
5. Carefully remove the old cylinder head and cylinder, noting the position of all fasteners and components.

4.2 Cleaning and Inspection

- Thoroughly clean all mating surfaces on the engine block, cylinder, and cylinder head. Remove all traces of old gasket material, carbon deposits, and oil residue. Use a plastic scraper or gasket remover chemical, being careful not to scratch or damage the surfaces.
- Inspect all components for wear, cracks, or damage. Pay close attention to the cylinder bore, piston, valves, and camshaft. Replace any worn or damaged parts before reassembly.
- Ensure all oil passages and coolant passages are clear and free of debris.

4.3 Gasket Installation

1. Install new valve stem seals (if included and applicable) onto the valve guides.
2. Place the new cylinder base gasket onto the engine block, ensuring proper alignment with dowel pins and bolt holes.
3. Carefully lower the cylinder onto the engine block, guiding it over the piston and dowel pins.
4. Install the new cylinder head gasket onto the cylinder, again ensuring correct orientation and alignment.
5. Position the cylinder head onto the cylinder, aligning it with the dowel pins.
6. Install all cylinder head bolts and nuts. Follow the specific torque sequence and specifications provided in your Kawasaki KLR250 service manual. *Incorrect torque can lead to gasket failure or engine damage.*
7. Reinstall all remaining top-end components, such as the camshaft, rocker arms, and valve cover, following the service manual's instructions.

4.4 Final Assembly

- Reinstall the exhaust system, carburetor, fuel tank, and any other removed components.
- Refill engine oil and coolant to the recommended levels.
- Reconnect the battery.

5. POST-INSTALLATION CHECKS AND BREAK-IN

5.1 Initial Start-up

- Before starting the engine, manually rotate the crankshaft several times to ensure no interference and to build oil pressure.
- Start the engine and allow it to idle. Immediately check for any leaks (oil, coolant, exhaust).
- Monitor engine temperature and oil pressure. Shut off the engine immediately if any abnormal noises, smoke, or warning lights appear.

5.2 Engine Break-in

A proper break-in period is crucial for the longevity of new gaskets and engine components. Refer to your motorcycle's service manual for specific break-in procedures. Generally, this involves:

- Avoiding sustained high RPMs or heavy loads for the first few hundred miles.
- Varying engine RPMs during riding.
- Performing an oil and filter change after the initial break-in period.

6. MAINTENANCE

Proper engine maintenance is key to preventing premature gasket failure and ensuring the overall health of your motorcycle's engine.

- **Regular Oil Changes:** Follow your motorcycle manufacturer's recommendations for oil and filter change intervals.

Use the correct type and viscosity of engine oil.

- **Coolant System Checks:** Regularly inspect coolant levels and condition. Ensure the cooling system is free of leaks and operating efficiently.
- **Torque Checks:** Periodically check the torque of cylinder head bolts, especially after the initial break-in period, as recommended by your service manual.
- **Visual Inspections:** Routinely inspect the engine for any signs of oil or coolant leaks around gasket areas. Address any leaks promptly.

7. TROUBLESHOOTING COMMON ISSUES

If you encounter issues after installing the gasket kit, consider the following common problems and potential solutions:

Symptom	Possible Cause	Solution
Oil Leak from Cylinder Head/Base	Improper gasket installation, damaged gasket, incorrect torque on fasteners, warped mating surface.	Re-check torque specifications. Inspect and replace gasket if damaged. Check mating surfaces for flatness.
Coolant Leak	Damaged head gasket, improper installation, cracked cylinder head/block.	Inspect head gasket. Pressure test cooling system. Check for cracks in engine components.
Engine Overheating	Blown head gasket (allowing combustion gases into coolant), air in cooling system, cooling system malfunction.	Perform a combustion leak test. Bleed cooling system. Inspect thermostat, water pump, and radiator.
Loss of Compression / Engine Misfire	Damaged head gasket, improperly seated valve, worn piston rings (not directly related to gasket kit but often addressed during top-end rebuild).	Perform a compression test and leak-down test to pinpoint the issue.

If troubleshooting steps do not resolve the issue, consult a professional mechanic.

8. SPECIFICATIONS

Feature	Detail
Brand	COMETIC
Model Number	C7244
Material	High-quality gasket materials (100% Cometic)
Color	Black
UPC	191070073305
Compatibility	Kawasaki KLR250 (Years: 1985-2005)
Item Weight	Approximately 1 pound (0.45 kg)
Product Dimensions	0.25 x 6 x 7 inches (0.64 x 15.24 x 17.78 cm)

9. WARRANTY INFORMATION

Cometic Gasket products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Cometic Gasket website or contact their customer service directly. Warranty coverage typically applies to manufacturing defects and does not cover damage resulting from improper installation, misuse, or normal wear and tear.

Retain your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

If you have any questions regarding the installation, compatibility, or performance of your Cometic C7244 Top End Gasket Kit, please contact Cometic Gasket customer support.

- **Manufacturer:** Cometic
- **Website:** www.cometic.com (Note: This is a placeholder URL, please verify the official website for accurate support information.)
- **Contact Information:** Refer to the official Cometic Gasket website for the most current contact details, including phone numbers and email addresses.

When contacting support, please have your product model number (C7244) and purchase information readily available.

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