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## ZDTOPA 4G13

# ZDTOPA 4G13 Engine Rebuilding Kit Instruction Manual

Model: 4G13 | Part Numbers: MD978013, 50217900

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## 1. INTRODUCTION

This manual provides essential information for the ZDTOPA 4G13 Engine Rebuilding Kit. This kit is designed to facilitate a comprehensive engine overhaul, ensuring proper sealing and performance for compatible Mitsubishi vehicles. Please read all instructions carefully before beginning any installation or maintenance procedures.

## 2. PRODUCT OVERVIEW

The ZDTOPA 4G13 Engine Rebuilding Kit (MD978013, 50217900) includes a full set of gaskets and seals necessary for an engine overhaul. Key components are engineered for resistance to corrosion, heat, and oil, contributing to a balanced strength and weight for optimal engine sealing.

### Kit Components:

- Full Gasket Set (MD979215, MD978013, MD978236, 50217900)
- Head Gasket (MD351292, 10144500)
- Various seals and smaller gaskets for a complete overhaul.



**Figure 1:** Overview of the ZDTOPA 4G13 Engine Rebuilding Kit, showing the head gasket, valve cover gasket, various seals, and other components.



**Figure 2:** The ZDOPA 4G13 Engine Rebuilding Kit, including a "QC PASSED" sticker, indicating quality control inspection.

### 3. COMPATIBILITY

This engine rebuilding kit is specifically designed for vehicles equipped with the 4G13 engine. Please verify your vehicle's engine model and part numbers before purchase and installation to ensure correct fitment.

#### Compatible Vehicle Models:

- Mitsubishi COLT 16V 4G13 (2001- onwards, 1299CC)
- Mitsubishi CARISMA 4G13 (2001- onwards, 1299CC)
- Mitsubishi COLT 4G13 (2001- onwards, 1299CC)
- Mitsubishi LANCER 4G13 (2001- onwards, 1299CC)

**Important Note:** Always cross-reference the provided part numbers (MD978013, 50217900, MD351292, 10144500) with your existing components or vehicle specifications to confirm compatibility.

### 4. INSTALLATION GUIDELINES

Installation of an engine rebuilding kit requires specialized knowledge and tools. It is highly recommended

that installation be performed by a qualified automotive technician. Improper installation can lead to engine damage or failure.

### General Steps (Consult Service Manual for Specifics):

1. **Preparation:** Ensure the engine is cool and disconnected from the battery. Drain all fluids (oil, coolant).
2. **Disassembly:** Carefully remove engine components to access the gaskets and seals that need replacement. Document the location and orientation of all parts.
3. **Cleaning:** Thoroughly clean all mating surfaces to remove old gasket material, carbon deposits, and oil residue. Ensure surfaces are smooth and free of imperfections.
4. **Gasket Placement:** Install new gaskets and seals from the kit according to the vehicle's service manual. Pay close attention to torque specifications for bolts, especially for the cylinder head gasket.
5. **Reassembly:** Reinstall all engine components in reverse order of disassembly.
6. **Fluid Refill & Testing:** Refill engine with appropriate fluids. Perform initial engine startup and check for leaks or unusual noises.



**Figure 3:** Detailed view of the ZDTPA 4G13 engine head gasket (MD351292, 10144500), showing its precise cut and material.



**Figure 4:** Detailed view of the ZDTPA 4G13 engine valve cover gasket and manifold gaskets, highlighting their contours and metal reinforcement.

## 5. MAINTENANCE

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Once the engine rebuilding kit is installed, proper engine maintenance is crucial for longevity. Adhere to your vehicle manufacturer's recommended service intervals for oil changes, coolant flushes, and general engine inspections. Regularly check for any signs of fluid leaks around gasket areas.

- Use high-quality engine oil and filters.
- Maintain correct coolant levels and quality.
- Address any unusual engine noises or performance issues promptly.

## 6. TROUBLESHOOTING

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If issues arise after installing the engine rebuilding kit, consider the following general troubleshooting steps. For complex problems, consult a professional mechanic.

Symptom	Possible Cause	Action
Oil/Coolant Leak	Improper gasket seating, incorrect torque, damaged gasket during installation.	Inspect the affected area for visible leaks. Re-check torque specifications. If leak persists, disassembly and re-installation with a new gasket may be required.
Engine Overheating	Air in cooling system, faulty thermostat, coolant leak, improper head gasket installation.	Bleed cooling system. Check coolant levels. Verify proper head gasket installation.
Reduced Engine Performance	Vacuum leak, incorrect valve timing (if related components were disturbed), improper seal.	Check all vacuum lines and connections. Verify engine timing.

Always refer to your vehicle's specific service manual for detailed diagnostic procedures.

## 7. SPECIFICATIONS

Feature	Detail
Engine Model	4G13
Full Set Part Numbers	MD979215, MD978013, MD978236, 50217900
Head Gasket Part Numbers	MD351292, 10144500
Cylinder Diameter	Ø72.5MM
Material	Graphite (for certain components)
Manufacturer	ZDTOPA
Package Dimensions	17 x 8 x 1.6 inches
Package Weight	4.41 Pounds



**Figure 5:** Close-up of various smaller seals and gaskets included in the ZDOPA 4G13 engine rebuilding kit, essential for a complete overhaul.

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding the ZDOPA 4G13 Engine Rebuilding Kit, please refer to the documentation provided with your purchase or contact the seller directly. General return policies may apply as per the retailer's terms.

For technical support or inquiries, please contact ZDOPA customer service through their official channels or the retailer where the product was purchased.