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ZDTOPA GA-MI036

ZDTOPA 4A91 Full Complete Gasket Set Instruction Manual

Model: GA-MI036

Introduction Components Compatibility Installation Operation & Support Maintenance Troubleshooting Specifications Warranty

1. Introduction

This instruction manual provides essential information for the ZDTOPA 4A91 Full Complete Gasket Set, designed for specific Mitsubishi engine applications. This set includes all necessary gaskets and seals for a comprehensive engine overhaul, ensuring proper sealing and optimal engine performance. Please review this manual thoroughly before proceeding with installation.

2. Product Components

The ZDTOPA 4A91 Full Complete Gasket Set includes the following components:

- **Cylinder Head Gasket:** MN195370 (0.25 mm thickness)
- **Rocker Cover Gasket:** MW251251
- **Exhaust Manifold Gasket:** SMN195556
- **Intake Manifold Gasket:** MW300342
- **Crankshaft Rear Oil Seal Gasket:** 1052B059 (size: 85x168.8x13.5mm)
- **Crankshaft Front Oil Seal Gasket:** 1052B062 (size: 29.6x48x6.7mm)
- **Valve Stem Oil Seal (FKM):** MD179175 (size: 4.5x9x11.4mm)
- Additional seals and gaskets for a complete overhaul.

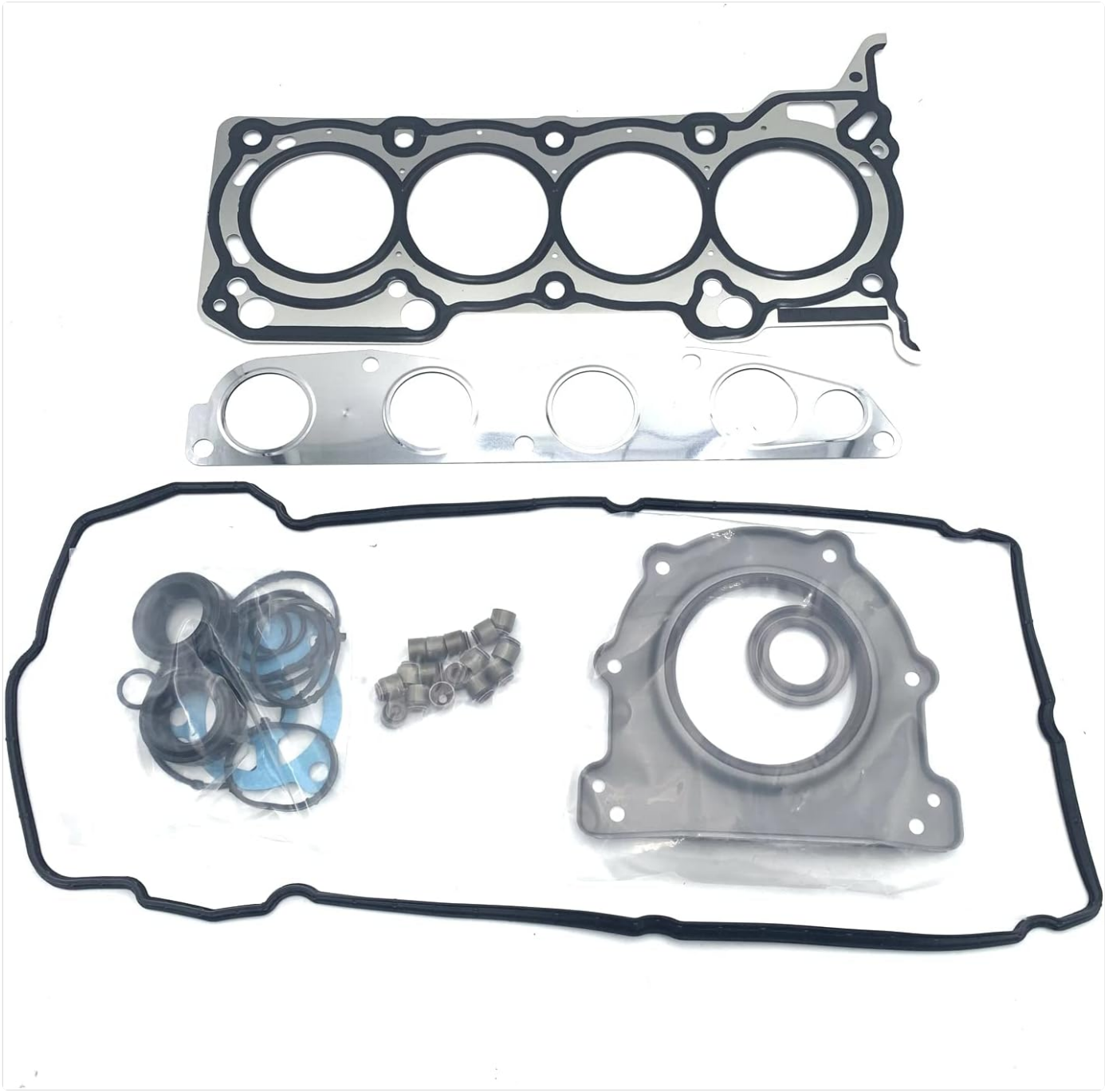


Figure 2.1: Overview of the ZDTOPA 4A91 Full Complete Gasket Set components. This image displays the various gaskets and seals included in the kit, laid out for inspection.

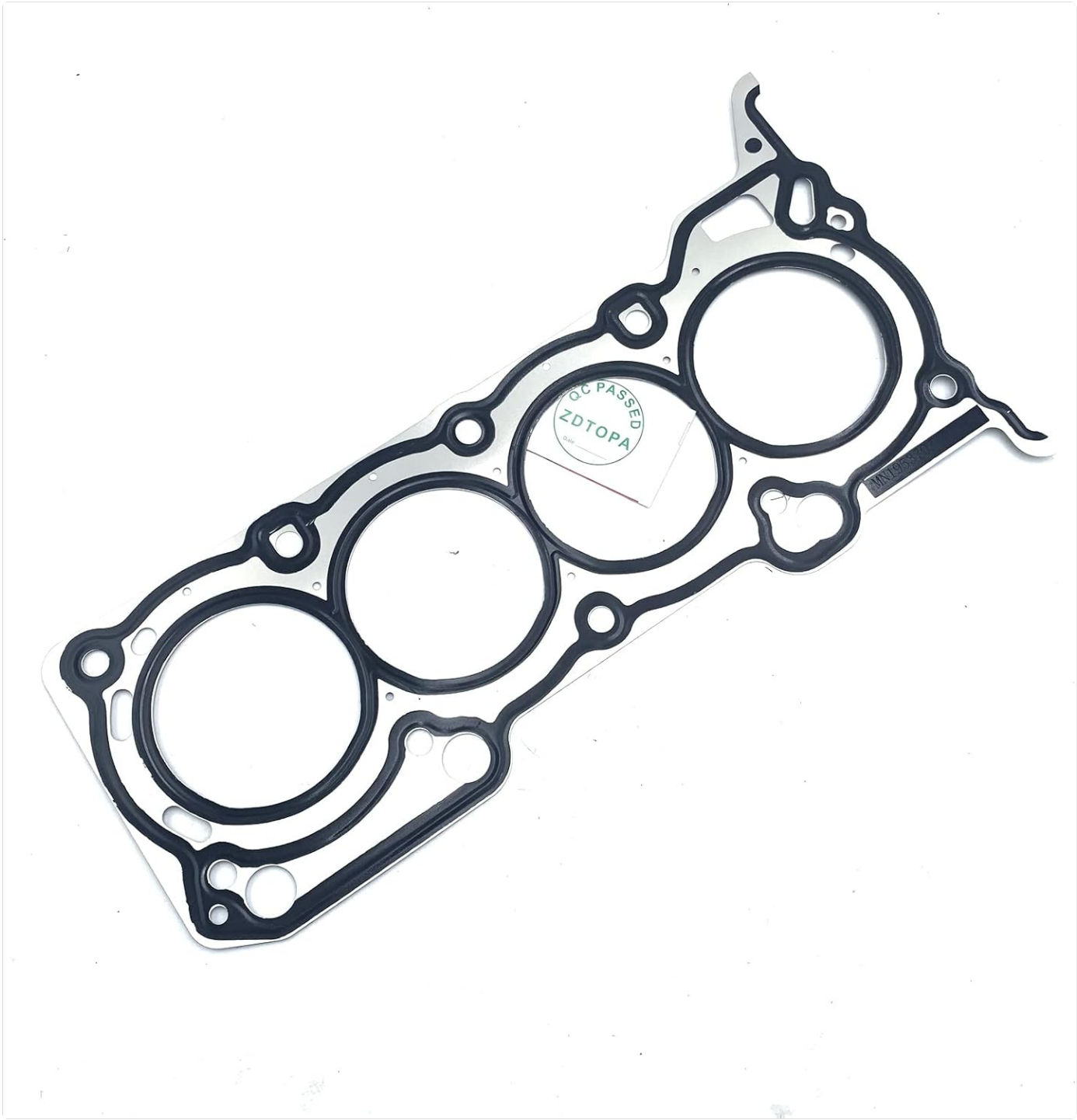


Figure 2.2: Close-up view of the ZDTOPA 4A91 Cylinder Head Gasket (MN195370). This image highlights the design and material of the head gasket.

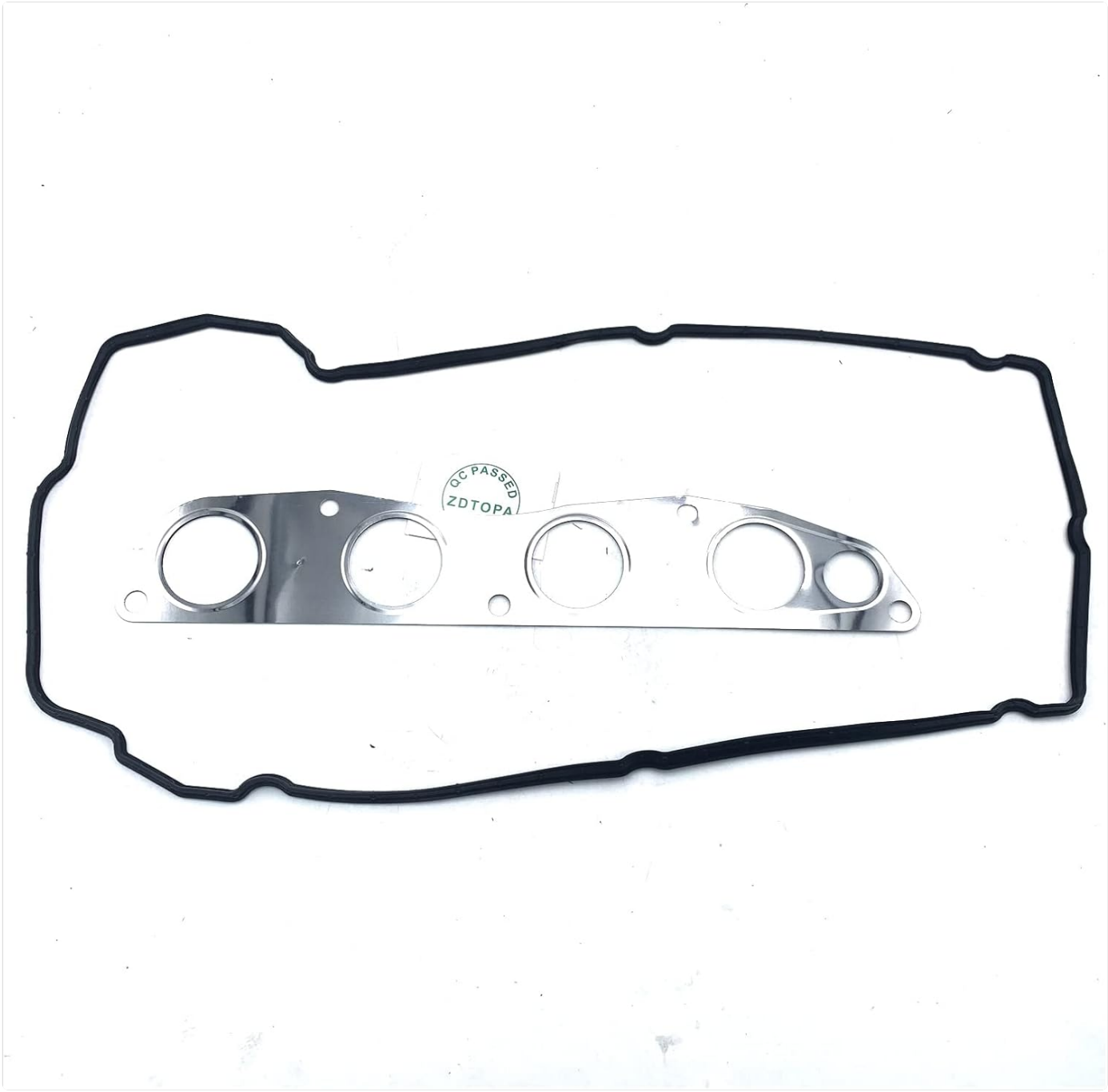


Figure 2.3: Various manifold gaskets and oil seals from the ZDTOPA 4A91 kit. This image shows the exhaust manifold gasket, rocker cover gasket, and various oil seals.

3. Compatibility Information

This gasket set is compatible with the following Mitsubishi vehicles equipped with the **4A91 engine**:

- **Mitsubishi COLT VI (Z3_A, Z2_A) 1.5:**
  - 4WD 4A91 1499cc 77kW (105HP) Hatchback (2006/07 - 2012/06)
  - 4WD 4A91 1499cc 80kW (109HP) Hatchback (2004/06 - 2012/06)
  - 1.5 (Z23) 4A91 1499cc 77kW (105HP) Hatchback (2006/07 - 2012/06)
- **Mitsubishi COLT CZC Convertible (RG) 1.5:**
  - 4A91 1499cc 80kW (109HP) Convertible (2006/05 - 2009/07)
- **Mitsubishi LANCER Saloon (CY/Z_A) 1.5:**
  - 4A91 1499cc 80kW (109HP) Saloon (2008/06 - Present)

- 1.5 Bifuel 4A91 1499cc 80kW (109HP) Saloon (2010/02 - Present)

- **Mitsubishi LANCER SPORTBACK (CX_A) 1.5:**
  - 4A91 1499cc 80kW (109HP) Hatchback (2008/06 - Present)
  - 1.5 Bifuel 4A91 1499cc 80kW (109HP) Hatchback (2010/03 - Present)

Important: Always verify compatibility using your vehicle's year, make, and model, and cross-reference the OEM part numbers (MW300358, 50304600) with your existing components before purchase and installation.

4. Installation

Installation of engine gaskets requires specialized tools, technical knowledge, and adherence to specific torque specifications and procedures outlined in the vehicle's official service manual. **Professional installation by a certified mechanic is highly recommended.** Incorrect installation can lead to engine damage, leaks, and reduced performance.

4.1 General Guidelines for Gasket Replacement:

1. **Preparation:** Ensure the engine is cool and disconnected from the battery. Drain relevant fluids (e.g., coolant, oil) as required by the specific gasket replacement procedure.
2. **Disassembly:** Carefully remove components to access the gaskets. Keep track of all fasteners and their locations.
3. **Surface Cleaning:** Thoroughly clean all mating surfaces to remove old gasket material, carbon deposits, and oil residue. Use appropriate gasket scrapers and cleaning agents. Ensure surfaces are smooth and free of imperfections.
4. **Gasket Placement:** Install new gaskets in their correct orientation. Do not use additional sealants unless specifically instructed by the vehicle's service manual.
5. **Torque Specifications:** Tighten all fasteners to the manufacturer's specified torque values and in the correct sequence. Over-tightening or under-tightening can cause leaks or damage.
6. **Reassembly:** Reinstall all components in reverse order of removal.
7. **Fluid Refill:** Refill engine fluids to the correct levels.
8. **Initial Start-up:** After installation, perform an initial start-up and carefully check for any leaks or unusual noises.

For detailed, step-by-step instructions, always refer to the official Mitsubishi service manual for your specific vehicle model and engine type.

4.2 Product Overview Video:

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Video 4.1: ZDTOPA 4A91 Full Gasket Set Overview. This short video provides a visual presentation of the complete gasket kit, showcasing the various components included.

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Video 4.2: ZDTOPA 4A91 Full Complete Gasket Set Components. This video offers another perspective on the gasket set, detailing the individual parts.

5. Operating Considerations After Gasket Installation

After successful installation of the gasket set, it is important to perform the following checks and procedures:

- **Fluid Levels:** Verify all engine fluid levels (engine oil, coolant) are at the correct marks.
- **Leak Inspection:** Start the engine and allow it to reach operating temperature. Carefully inspect all newly sealed areas for any signs of fluid leaks (oil, coolant, exhaust gases).
- **Initial Drive:** Perform a short, gentle test drive to ensure normal engine operation and no warning lights appear.
- **Re-check:** After the initial drive and once the engine has cooled, re-check fluid levels and inspect for leaks again.

6. Maintenance

Proper engine maintenance is crucial for the longevity and performance of your vehicle, including the newly installed gaskets. Follow your vehicle manufacturer's recommended maintenance schedule, which typically includes:

- Regular oil and filter changes.
- Coolant system checks and flushes.
- Inspection of belts and hoses.
- Monitoring engine temperature and fluid levels.

Adhering to these practices helps prevent conditions that could lead to premature gasket failure.

7. Troubleshooting Common Issues

If you encounter issues after gasket installation, consider the following general troubleshooting steps. For complex problems, consult a professional mechanic.

Symptom	Possible Cause	Action
Fluid Leaks (Oil/Coolant)	Improper gasket seating, incorrect torque, damaged gasket during installation, warped mating surface.	Re-inspect the affected area. Ensure fasteners are torqued correctly. If leaks persist, professional diagnosis and potential re-installation are required.
Exhaust Gas Leak	Improper exhaust manifold gasket installation, warped manifold.	Check manifold gasket seating and torque. Inspect manifold for warping.
Engine Overheating	Air in cooling system, coolant leak, improper head gasket installation.	Bleed cooling system. Check for coolant leaks. If head gasket is suspected, professional diagnosis is critical.

Always prioritize safety and consult a qualified technician for any serious engine concerns.

8. Specifications

- **Engine Model:** 4A91
- **OEM Numbers:** MW300358, 50304600
- **Manufacturer Part Number:** GA-MI036
- **Cylinder Head Gasket Thickness:** Approximately 0.25 mm
- **Cylinder Diameter:** Ø76MM
- **Material:** Graphite (for certain components, e.g., head gasket)
- **Item Weight:** 2.2 pounds (approximate)
- **Package Dimensions:** 16 x 9.5 x 1.2 inches (approximate)

9. Warranty and Support

For information regarding product warranty, returns, or technical support, please contact the seller or ZDTOPA directly through their official channels. Keep your purchase receipt and product details readily available when contacting support.
You can visit the ZDTOPA Store for more information:ZDTOPA Official Store

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