

[Manuals.plus](#) /

› [ZDTOPA](#) /

› ZDTOPA 3SZVE 3SZ Complete Gasket Set 04111-BA170 Instruction Manual for Daihatsu SIRION (M3_) and TERIOS (J2_) Engines

ZDTOPA 3SZVE 3SZ

ZDTOPA 3SZVE 3SZ Complete Gasket Set 04111-BA170 Instruction Manual

For Daihatsu SIRION (M3_) and TERIOS (J2_) Engines

INTRODUCTION

This instruction manual provides essential information for the ZDTOPA 3SZVE 3SZ Complete Gasket Set, part number 04111-BA170. This set is designed for specific Daihatsu SIRION (M3_) and TERIOS (J2_) engine applications. It includes all necessary gaskets and seals for a comprehensive engine overhaul or repair. Proper installation is crucial for engine performance and longevity.

Important: Installation of engine components requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified automotive technician. Refer to your vehicle's specific service manual for detailed, step-by-step procedures.

PRODUCT OVERVIEW

The ZDTOPA 3SZVE 3SZ Complete Gasket Set (04111-BA170) contains a full range of gaskets and seals required for the 3SZ-VE engine. This includes the head gasket, valve cover gaskets, manifold gaskets, oil seals, and various O-rings.

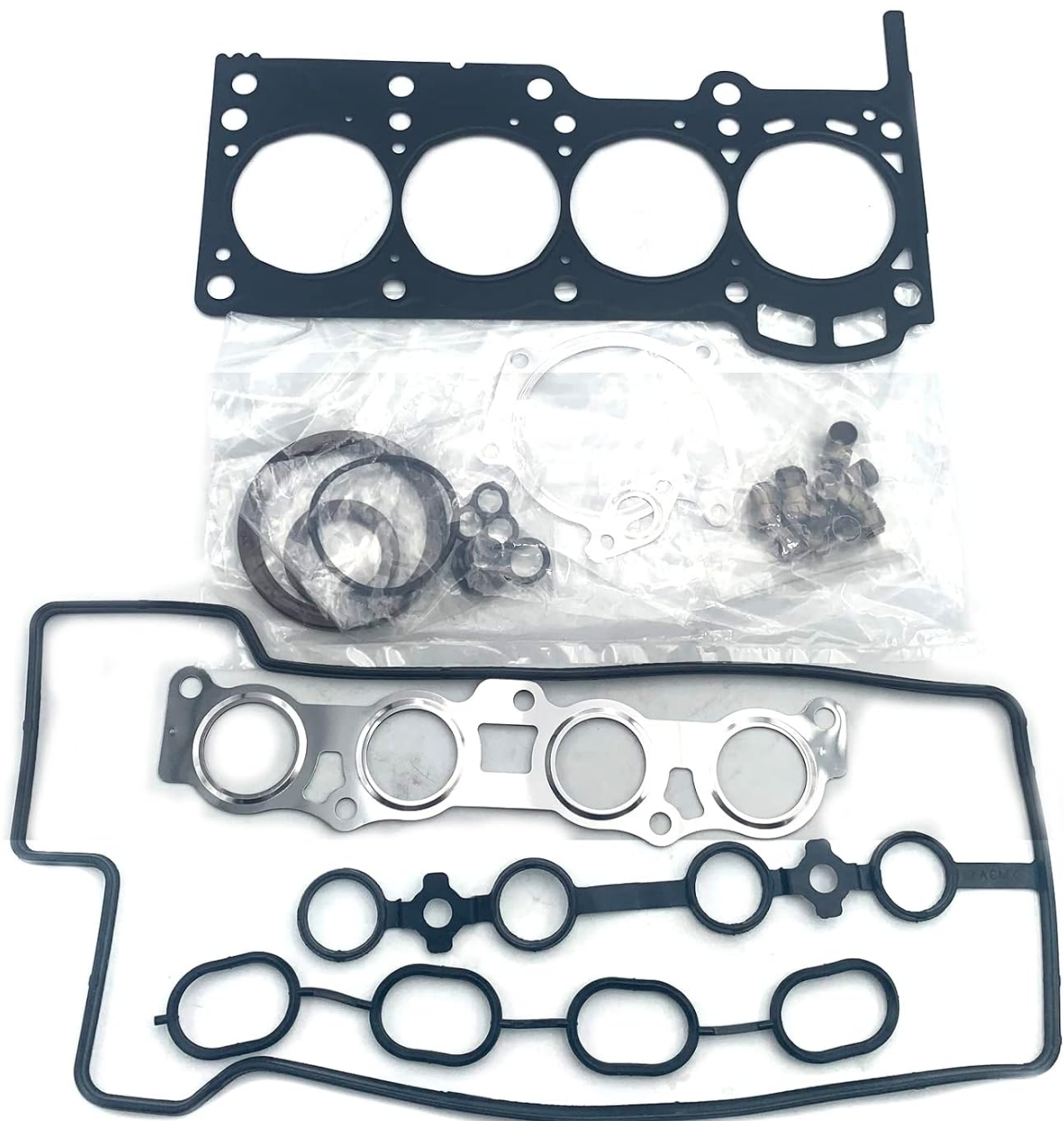


Image 1: Overview of the ZDTPA 3SZVE 3SZ Complete Gasket Set. This image displays all components included in the kit, such as the head gasket, various seals, and smaller gaskets, laid out for inspection.

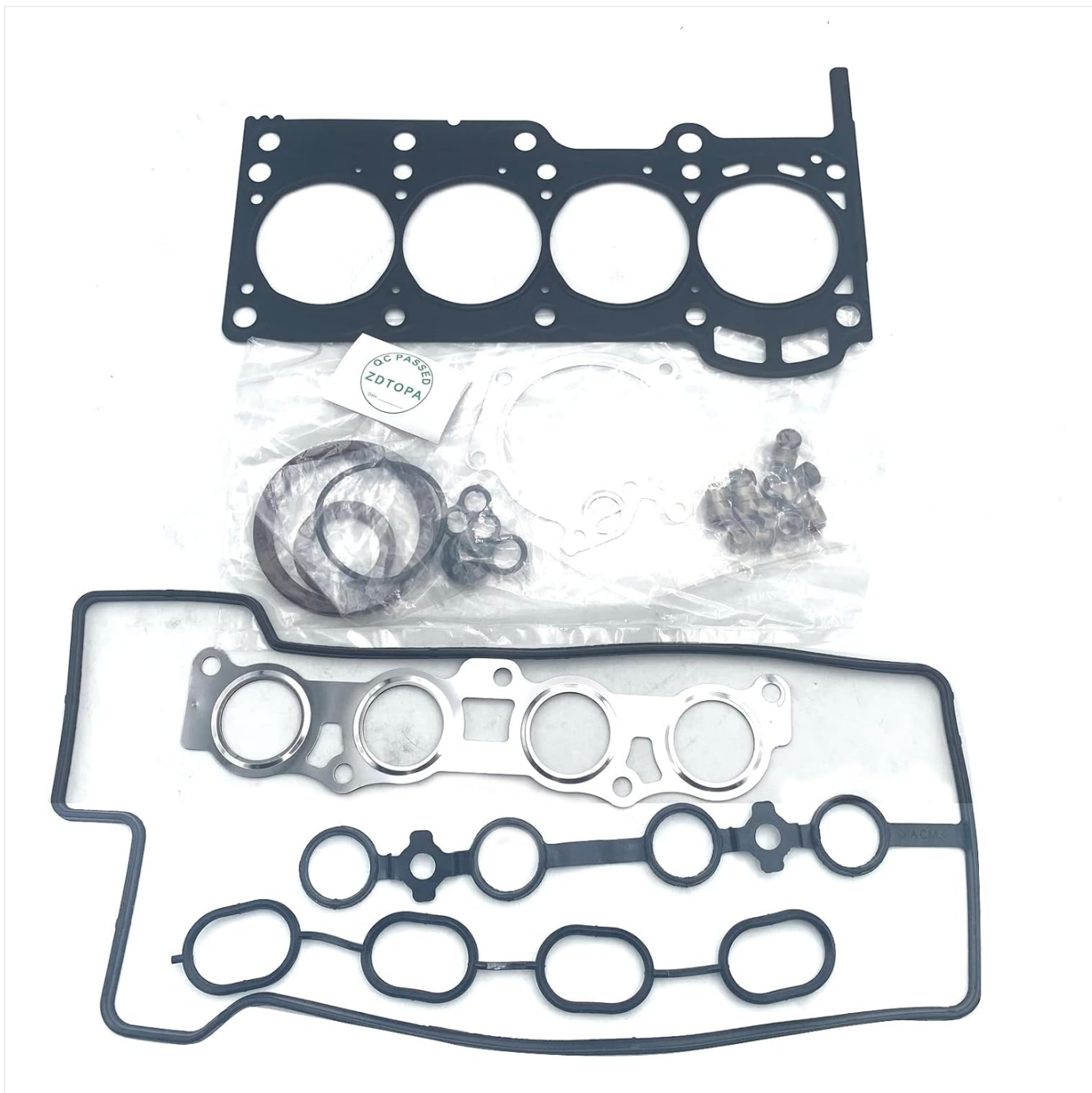


Image 2: The complete gasket set, featuring a "QC PASSED ZDTOPA" sticker, indicating quality inspection. The components are arranged similarly to Image 1, highlighting the quality assurance.

COMPATIBILITY

This gasket set is compatible with the following Daihatsu vehicles equipped with the 3SZ-VE engine:

- **DAIHATSU SIRION (M3_) 1.5** (3SZ-VE, 1495cc, 76kW/103HP) - Hatchback (2008/03 - /)
- **DAIHATSU SIRION (M3_) 1.5 4WD** (3SZ-VE, 1495cc, 76kW/103HP) - Hatchback (2006/05 - 2008/10)
- **DAIHATSU TERIOS (J2_) 1.5 4x4** (3SZ-VE, 1495cc, 87kW/118HP) - Closed Off-Road Vehicle (2010/09 - /)
- **DAIHATSU TERIOS (J2_) 1.5 VVT-i** (3SZ-VE, 1495cc, 80kW/109HP) - Closed Off-Road Vehicle (2006/12 - /)
- **DAIHATSU TERIOS (J2_) 1.5 VVT-i [RWD]** (3SZ-VE, 1495cc, 75kW/102HP) - Closed Off-Road Vehicle (2010/09 - /)
- **DAIHATSU TERIOS (J2_) 1.5 4x4** (3SZ-VE, 1495cc, 77kW/105HP) - Closed Off-Road Vehicle (2006/05 - /)
- **DAIHATSU TERIOS (J2_) 1.5 VVT-i [RWD]** (3SZ-VE, 1495cc, 77kW/105HP) - Closed Off-Road Vehicle (2005/11 - /)
- **DAIHATSU MATERIA (M4_) 1.5** (3SZ-VE, 1495cc, 76kW/103HP) - MPV (2006/10 - /)
- **DAIHATSU MATERIA (M4_) 1.5 ECO 4WD** (3SZ-VE, 1495cc, 76kW/103HP) - MPV (2006/10 - /)

Always verify compatibility using the year, make, and model of your vehicle, and cross-reference the part number (04111-BA170) with your existing components before purchase and installation.

SETUP AND INSTALLATION

The installation of a complete gasket set involves significant engine disassembly and reassembly. This section provides general guidelines; however, a vehicle-specific service manual is indispensable for precise instructions.

Preparation:

1. **Safety First:** Ensure the vehicle is safely supported on jack stands, the engine is cool, and the battery is disconnected.
2. **Tools and Materials:** Gather all necessary tools, including torque wrenches, specialized engine tools, cleaning supplies, and new engine fluids (oil, coolant) as required.
3. **Cleanliness:** Maintain a clean working environment. Any dirt or debris introduced into the engine can cause significant damage.
4. **Component Identification:** Familiarize yourself with each gasket and its corresponding location.



Image 3: Close-up view of the multi-layer steel (MLS) head gasket included in the set. This gasket is critical for sealing the combustion chambers and coolant/oil passages between the engine block and cylinder head.

Installation Steps (General):

1. **Disassembly:** Carefully disassemble engine components, labeling and organizing parts to ensure correct reassembly.
2. **Surface Preparation:** Thoroughly clean all mating surfaces on the engine block, cylinder head, and other components. Remove all old gasket material, carbon deposits, and corrosion. Ensure surfaces are flat and free of imperfections.
3. **Gasket Placement:** Install new gaskets according to the vehicle's service manual. Pay close attention to orientation and proper seating.
4. **Torque Specifications:** Tighten all bolts to the manufacturer's specified torque values and sequences, especially for the cylinder head bolts. Incorrect torque can lead to leaks or engine damage.
5. **Seal Installation:** Install new oil seals (crankshaft, camshaft, valve stem seals) using appropriate seal drivers to prevent damage.
6. **Reassembly:** Reassemble all engine components, ensuring all connections are secure and hoses/wires are routed correctly.

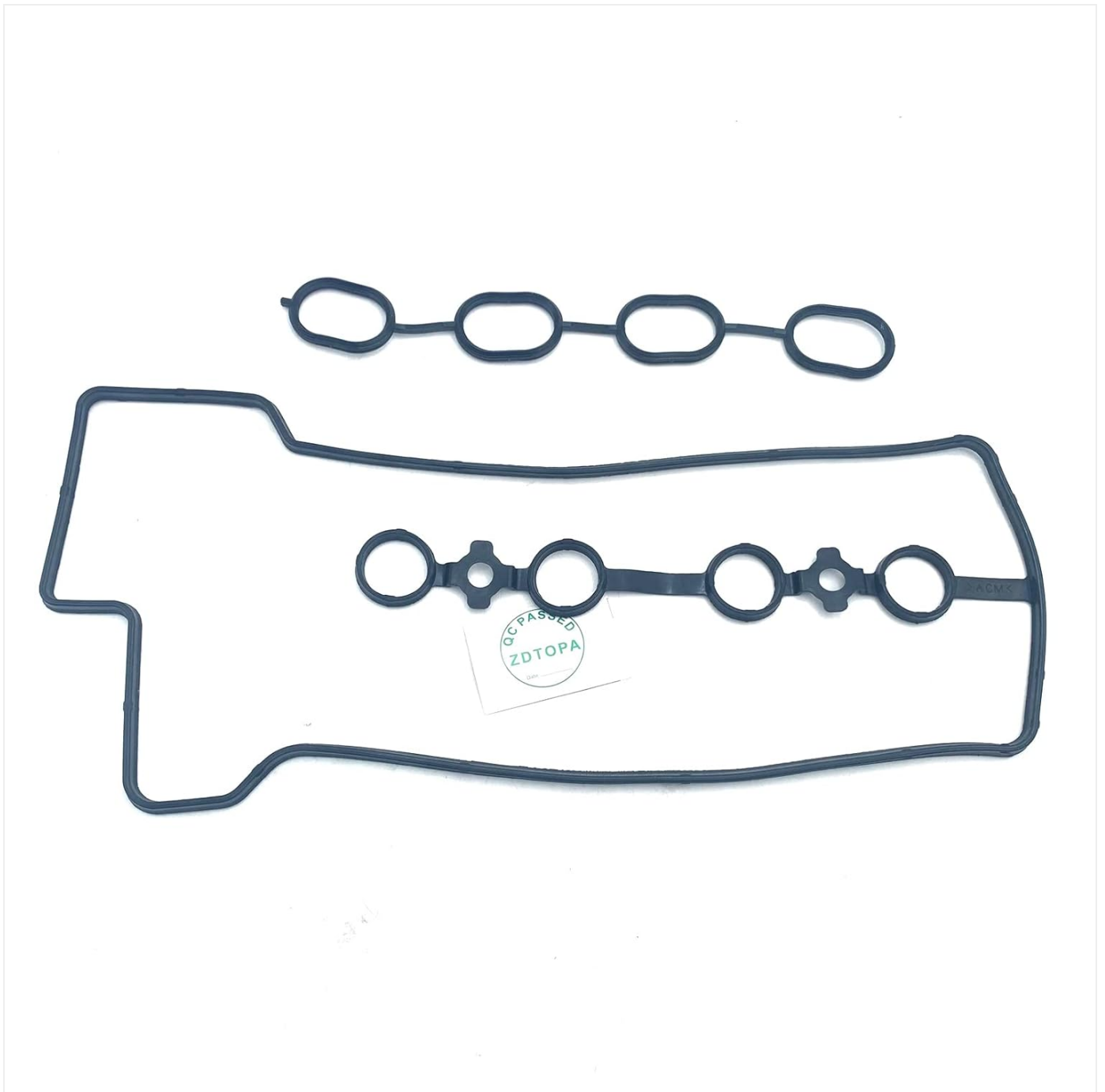


Image 4: A selection of smaller gaskets, including the valve cover gasket and various O-rings. These components are essential for sealing the upper engine components and preventing oil leaks.



Image 5: The exhaust manifold gasket, along with various oil seals and small bolts. These parts are crucial for sealing the exhaust system and other auxiliary engine components.

OPERATING (Post-Installation)

After the gasket set has been installed and the engine reassembled, follow these steps before and during the initial engine operation:

1. **Fluid Refill:** Refill the engine with the correct type and amount of engine oil and coolant. Bleed the cooling system to remove air pockets.
2. **Initial Start-up:** Start the engine and allow it to reach operating temperature. Monitor for any leaks (oil, coolant, exhaust) and unusual noises.
3. **Leak Check:** Visually inspect all gasket areas for signs of leakage. Use a flashlight to check hard-to-see areas.
4. **Monitor Gauges:** Pay close attention to the engine temperature gauge and oil pressure light. Shut off the engine immediately if any warning lights illuminate or if the temperature rises excessively.
5. **Break-in Period:** Follow any specific engine break-in procedures recommended by the vehicle manufacturer, especially

after a major engine repair involving head gasket replacement.

MAINTENANCE

Proper engine maintenance is essential to ensure the longevity and performance of your newly installed gaskets and the engine as a whole.

- **Regular Oil Changes:** Adhere to the manufacturer's recommended oil change intervals using the specified oil type.
- **Coolant System Maintenance:** Regularly check coolant levels and condition. Flush and replace coolant as per the vehicle's maintenance schedule to prevent corrosion and maintain proper engine temperature.
- **Monitor for Leaks:** Periodically inspect the engine for any signs of oil, coolant, or exhaust leaks. Address any leaks promptly to prevent further damage.
- **Avoid Overheating:** Ensure the cooling system is functioning correctly to prevent engine overheating, which can severely damage gaskets.

TROUBLESHOOTING

If issues arise after gasket installation, consider the following common problems and potential causes:

- **Oil Leaks:**
 - Incorrect gasket installation or damaged gasket during assembly.
 - Improper torque on fasteners.
 - Damaged or improperly installed oil seals.
 - Warped mating surfaces.
- **Coolant Leaks:**
 - Head gasket failure (can lead to external leaks or internal leaks into combustion chambers/oil).
 - Improperly seated or damaged water pump gasket, thermostat housing gasket, or coolant hose seals.
 - Cracked engine block or cylinder head (less common, but possible).
- **Engine Overheating:**
 - Air pockets in the cooling system.
 - Head gasket failure allowing combustion gases into the coolant.
 - Faulty thermostat or cooling fan.
- **Loss of Engine Power / Misfires:**
 - Head gasket failure causing compression loss between cylinders.
 - Improper valve timing (if camshaft seals were replaced and timing was disturbed).

If you encounter any of these issues, it is recommended to consult a professional automotive technician for diagnosis and repair.

SPECIFICATIONS

Specification	Detail
Engine Code	3SZ-VE
Full Set Part Number	04111-BA170 (also 50322500)
Cylinder Diameter	Ø73MM

Specification	Detail
Material	Metal (for head gasket and some other components)
Head Gasket Thickness	0.3mm
Package Dimensions	15 x 8 x 1.6 inches
Item Weight	2.2 Pounds

WARRANTY INFORMATION

Specific warranty details for the ZDTOPA 3SZVE 3SZ Complete Gasket Set are not provided in this manual. For information regarding product warranty, please refer to the product packaging, the seller's terms and conditions, or contact ZDTOPA directly through their official channels. Keep your proof of purchase for any warranty claims.

SUPPORT AND CONTACT

For technical assistance, compatibility questions, or support regarding the ZDTOPA 3SZVE 3SZ Complete Gasket Set, please contact the seller or manufacturer directly. When contacting support, please have your product model number (3SZVE 3SZ) and part number (04111-BA170) available.

You may also visit the [ZDTOPA Store on Amazon](#) for additional product information and contact options.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question