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Tapa TM318KL265

Tapa Assembled SH265 Cylinder Head Instruction Manual

Model: TM318KL265

1. Product Overview

This document provides essential information for the installation, operation, and maintenance of the Tapa Assembled SH265 Cylinder Head. This kit is a complete, pre-assembled replacement component designed for specific Kohler engines.

1.1 Product Description

The Tapa Assembled Cylinder Head is a comprehensive kit that includes all necessary components for a cylinder head replacement. It comes fully assembled, saving time and effort during installation. The kit contains the cylinder head, valve cover, valves, rockers, valve springs, spark plug, insulator, head gasket, valve cover gasket, carburetor gasket set, muffler gasket, and all associated bolts and nuts.



Image 1.1: Top view of the Tapa Assembled SH265 Cylinder Head, showing the spark plug, rocker arms, and valve springs.

1.2 Compatibility

This assembled cylinder head kit is compatible with Kohler SH265, SH255, and SH270 engines, including those found in 196cc Courage OHV horizontal shaft engines (5.5hp, 6.5hp, 7hp). It replaces Kohler part numbers 18 318 01 S, 18 318 01-S, 18 318 04 S, and 18 318 04-S. This component is suitable for various power equipment such as water pumps, pressure washers (e.g., Simpson BE Powershot MegaShot 3200-3500 psi models), generators, log splitters, chipper shredders, and compressors that utilize the specified Kohler engines.

2. Safety Information

Always prioritize safety when working with engine components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Disconnect Power:** Ensure the engine is completely off and cooled down. Disconnect the spark plug wire to prevent accidental starting.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and appropriate clothing to protect against hot surfaces, sharp edges, and chemical exposure.
- **Ventilation:** Work in a well-ventilated area to avoid inhaling fumes.
- **Professional Installation:** If you are not experienced with engine repair, it is highly recommended to seek assistance from a qualified technician.
- **Read Engine Manual:** Consult your specific engine's service manual for detailed disassembly and reassembly procedures, torque specifications, and additional safety guidelines.

3. Installation

The Tapa Assembled SH265 Cylinder Head is designed for direct replacement. However, proper installation is crucial for engine performance and longevity. Refer to your engine's specific service manual for detailed, step-by-step instructions.

3.1 General Installation Steps (Summary)

1. **Preparation:** Ensure the engine is cool and clean. Remove all components obstructing access to the cylinder head (e.g., air filter, carburetor, exhaust, valve cover).
2. **Old Cylinder Head Removal:** Carefully remove the old cylinder head, noting the position of all components.
3. **Surface Preparation:** Thoroughly clean the cylinder block mating surface, ensuring it is free of old gasket material, carbon deposits, and debris. A clean, flat surface is critical for a proper seal.
4. **Gasket Placement:** Place the new head gasket (included in the kit) onto the cylinder block, aligning it correctly with the bolt holes and passages.
5. **New Cylinder Head Installation:** Carefully position the new Tapa assembled cylinder head onto the engine block.
6. **Torque Sequence:** Install the cylinder head bolts and tighten them in the sequence and to the torque specifications provided in your engine's service manual. Incorrect torque can lead to gasket failure or cylinder head warpage.
7. **Reassembly:** Reinstall all removed components, including the valve cover, carburetor, exhaust, and spark plug wire. Ensure all connections are secure.

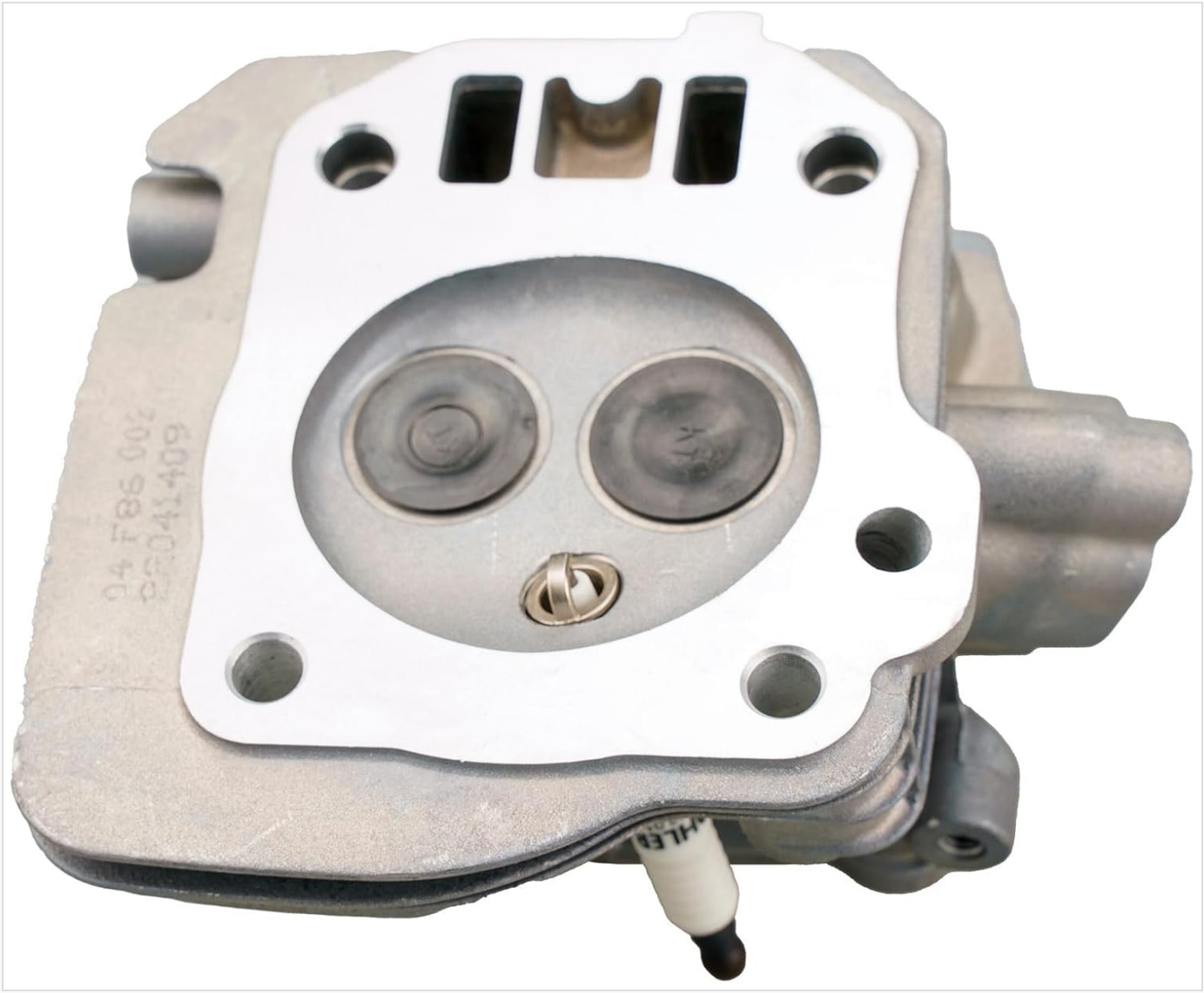


Image 3.1: Underside view of the cylinder head, highlighting the valves and combustion chamber area, critical for proper sealing during installation.

3.2 Gasket Set Overview

The kit includes a comprehensive gasket set essential for a leak-free installation. This video provides a visual overview of a typical engine cylinder head gasket set, similar to the components included with your Tapa cylinder head.

Video 3.2: An overview of an engine cylinder head gasket set, demonstrating the various gaskets and seals typically included for engine repair and replacement.

4. Post-Installation Checks

After installing the cylinder head and reassembling the engine, perform the following checks before attempting to start the engine:

- **Fluid Levels:** Check engine oil and coolant levels (if applicable) and top up as needed.
- **Connections:** Verify all electrical connectors, fuel lines, and vacuum hoses are securely attached.
- **Leak Inspection:** Visually inspect for any signs of fuel, oil, or coolant leaks around the new cylinder head and gasket areas.
- **Initial Start-up:** Start the engine and allow it to run at idle for a few minutes. Listen for unusual noises and continue to check for leaks.
- **Break-in:** Follow any specific break-in procedures recommended by your engine manufacturer after major component

replacement.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your engine and its components, including the cylinder head.

- **Spark Plug Inspection:** Periodically remove and inspect the spark plug for wear, fouling, or incorrect gap. Replace as necessary. The spark plug is included with the assembled head.
- **Valve Clearance:** Over time, valve clearances may change. Consult your engine's service manual for recommended inspection intervals and adjustment procedures.
- **Gasket Integrity:** Periodically check for any signs of oil or exhaust leaks around the cylinder head and valve cover gaskets.
- **Engine Cleanliness:** Keep the engine exterior clean to prevent debris from entering critical areas and to aid in heat dissipation.



Image 5.1: Top view of the cylinder head with the valve cover removed, illustrating the rocker arms and valve springs, which are part of routine maintenance checks.

6. Troubleshooting

If you experience issues after installing the cylinder head, consider the following general troubleshooting steps. Always refer to your engine's specific service manual for detailed diagnostic procedures.

- **Engine Misfire or Rough Running:**
  - Check spark plug for proper gap and condition.
  - Verify spark plug wire connection.
  - Inspect carburetor gasket for leaks.
- **Loss of Compression:**
  - Ensure cylinder head bolts are torqued correctly.
  - Check for proper valve seating and clearance.
  - Inspect head gasket for signs of failure.
- **Oil Leaks:**
  - Verify valve cover gasket is properly seated and bolts are tightened.
  - Check for cracks or damage to the valve cover or cylinder head.
- **Exhaust Leaks:**
  - Ensure muffler gasket is correctly installed and exhaust bolts are tight.

If issues persist, professional diagnosis and repair are recommended.

7. Specifications

Feature	Specification
Product Dimensions	6.4 x 6.1 x 6.1 inches
Item Weight	3.4 pounds
Manufacturer	Tapa
Item Model Number	TM318KL265
Compatibility	Kohler SH265, SH270, SH255 Engines
Replaces Part Numbers	18 318 01 S, 18 318 01-S, 18 318 04 S, 18 318 04-S

8. Warranty and Support

For information regarding product warranty, returns, or technical support, please contact the seller or manufacturer directly. Keep your purchase receipt and product model number (TM318KL265) readily available when seeking assistance.

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