



Manuals.plus /

› AOKLEY /

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AOKLEY OM43

AOKLEY OLEO-MAC OM43 Cylinder Piston Assembly Instruction Manual

Model: OM43 | Brand: AOKLEY

1. INTRODUCTION

This manual provides essential instructions for the proper installation, maintenance, and troubleshooting of the AOKLEY OLEO-MAC OM43 Cylinder Piston Assembly. This component is designed as a replacement part for OLEO-MAC 36/43 series brush cutters, grass trimmers, and lawn mowers. Adhering to these guidelines will help ensure the longevity and optimal performance of your equipment.

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 Spark Plug:** Before beginning any work, always disconnect the spark plug wire to prevent accidental engine startup.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses, gloves, and sturdy footwear.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation if working with fuel or cleaning solvents.
- **Consult Equipment Manual:** Refer to your specific OLEO-MAC equipment's service manual for model-specific disassembly and reassembly procedures, torque specifications, and additional safety warnings.
- **Handle Parts Carefully:** Engine components can have sharp edges. Handle with care to avoid cuts.

3. PACKAGE CONTENTS

The AOKLEY OLEO-MAC OM43 Cylinder Piston Assembly package typically includes the following components:

- 1 x Cylinder Block
- 1 x Piston
- 1 x Piston Pin

- 2 x Piston Rings



This image displays all the components included in the AOKLEY OLEO-MAC OM43 Cylinder Piston Assembly. On the left, the main cylinder block is visible, featuring cooling fins and mounting points. To the upper right, the piston is shown with its characteristic grooves for piston rings and a hole for the piston pin. Below the piston, the cylindrical piston pin is depicted. At the bottom right, two piston rings are shown, which are crucial for sealing the combustion chamber.

4. INSTALLATION GUIDE

This guide provides general steps for installing the cylinder piston assembly. **Always refer to your specific OLEO-MAC equipment service manual for detailed, model-specific instructions, torque specifications, and any special tools required.**

1. Preparation:

- Ensure the equipment is turned off, cooled down, and the spark plug wire is disconnected.
- Clean the exterior of the engine to prevent dirt from entering internal components.
- Gather all necessary tools, including wrenches, screwdrivers, piston ring compressor (if needed), and a torque wrench.

2. Disassembly of Old Assembly:

- Carefully remove any components obstructing access to the cylinder, such as the air filter, carburetor, and muffler.
- Unbolt and remove the old cylinder block. You may need to gently tap it to loosen.
- Remove the piston pin circlips and slide out the piston pin to detach the old piston from the connecting

rod.

- Clean the crankcase mating surface thoroughly, ensuring no old gasket material remains.

3. Inspection:

- Inspect the connecting rod for any signs of wear, bending, or damage.
- Check the crankshaft for smooth rotation and any play.

4. Install New Piston:

- Install the new piston rings onto the new piston, ensuring they are correctly oriented (if directional).
- Attach the new piston to the connecting rod using the piston pin and new circlips. Ensure the circlips are fully seated in their grooves.
- Orient the piston correctly according to any markings (e.g., arrow pointing towards the exhaust port).

5. Install New Cylinder:

- Place a new cylinder base gasket onto the crankcase mating surface.
- Lubricate the piston, piston rings, and cylinder bore with clean two-stroke engine oil.
- Compress the piston rings (a piston ring compressor tool may be helpful) and carefully slide the new cylinder block over the piston.
- Ensure the cylinder slides down smoothly without forcing. Align the cylinder mounting holes with the crankcase studs.
- Install and tighten the cylinder bolts to the manufacturer's specified torque settings, following the recommended tightening sequence (e.g., cross-pattern).

6. Reassembly:

- Reinstall the muffler, carburetor, and any other components removed during disassembly.
- Reconnect the spark plug wire.
- Refill fuel and oil as required.

7. Initial Start-up and Break-in:

- Perform a few slow pulls on the starter cord to ensure no binding.
- Start the engine and allow it to idle for a few minutes. Check for any unusual noises or leaks.
- Follow the equipment manufacturer's recommended break-in procedure for new engine components.

5. MAINTENANCE

Proper maintenance extends the life of your engine and its components.

- **Regular Cleaning:** Keep the engine's cooling fins clean to ensure efficient heat dissipation.
- **Fuel/Oil Mixture:** Always use the correct fuel-to-oil mixture ratio as specified by your equipment manufacturer for two-stroke engines. Incorrect mixtures can lead to premature wear.
- **Air Filter:** Regularly inspect and clean or replace the air filter to prevent dirt from entering the engine.
- **Spark Plug:** Check and replace the spark plug periodically according to your equipment's maintenance schedule.
- **Inspect for Leaks:** Periodically check for any fuel or oil leaks around the cylinder and crankcase.

6. TROUBLESHOOTING

If your equipment experiences issues after installing the new cylinder piston assembly, consider the following common checks:

- **Engine Not Starting:**

- Check if the spark plug wire is securely connected.
 - Ensure there is fuel in the tank and it's the correct fuel/oil mixture.
 - Verify the spark plug is clean and producing a spark.
 - Check for proper carburetor function and fuel delivery.
- **Loss of Power/Poor Performance:**
 - Inspect the air filter for clogging.
 - Check for proper exhaust flow (muffler not clogged).
 - Ensure all cylinder bolts are torqued correctly to prevent compression leaks.
 - Verify the piston rings are seated correctly and not damaged.
- **Unusual Noises:**
 - Rattling or knocking could indicate issues with the piston pin, connecting rod, or crankshaft bearings.
 - Hissing sounds might suggest a compression leak from an improperly seated gasket or loose cylinder bolts.

If you are unable to resolve the issue, it is recommended to consult a qualified service technician.

7. SPECIFICATIONS

Feature	Specification
Manufacturer	AOKLEY
Item Model Number	AOKLEY123
Compatible OLEO-MAC Models	36/43 Brush Cutter, Grass Trimmer, Lawn Mower
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	1.76 ounces
Batteries Required	No

8. WARRANTY AND SUPPORT

For specific warranty information regarding your AOKLEY OLEO-MAC OM43 Cylinder Piston Assembly, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. For technical assistance or further support, please reach out to AOKLEY customer service or your authorized dealer.