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Ewon 143R II 443RB 541RB 541RS 541RST 542RBS

Instruction Manual

CYLINDER PISTON KIT

Model: 143R II 443RB 541RB 541RS 541RST 542RBS

Brand: Ewon

1. Product Overview

This Cylinder Piston Kit is a high-quality replacement component designed for specific Husqvarna and Zenoah RedMax brushcutter models. It includes all necessary parts to replace the cylinder and piston assembly, which are critical components for the engine's combustion process. Proper installation of this kit restores engine compression and performance.



Image 1.1: Complete Cylinder Piston Kit components.

The kit is engineered to meet or exceed original equipment specifications, ensuring reliable operation and extended service life for your brushcutter.

2. Compatibility

This Cylinder Piston Kit is compatible with the following brushcutter models. Please verify your machine's model number before purchase to ensure proper fitment.

- **Husqvarna:** 143R II, 443RB, 541RB, 541RS, 541RST, 542RBS, 143AE15
- **Zenoah RedMax:** BC4300, BC4301, BC4302, BC4310, BC4350, BC4500, G45L

This kit replaces original part numbers: 510064201, 515361401, 597631801, 593305001, 4500-12110, T1117-12110.

3. Package Contents

Upon opening the package, please verify that all the following components are present and undamaged:

- 1 x Cylinder

- 1 x Piston
- 1 x Piston Pin
- 2 x Piston Rings
- 2 x Circlips
- 1 x Cylinder Gasket
- 1 x Muffler Gasket
- 1 x Intake Gasket
- 1 x Carburetor Gasket



Image 3.1: Detailed view of the kit's components.

4. Setup and Installation

Installation of a cylinder piston kit requires mechanical aptitude and specific tools. If you are not confident in your ability to perform this repair, it is recommended to seek assistance from a qualified service technician.

Safety Precautions:

- Always disconnect the spark plug wire before beginning any work on the engine to prevent accidental starting.

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the work area is well-ventilated and free from flammable materials.

General Installation Steps (Consult your brushcutter's service manual for specific instructions):

1. Carefully remove the existing cylinder and piston assembly, noting the orientation of all components.
2. Clean the crankcase mating surface thoroughly, ensuring it is free of old gasket material and debris.
3. Install the new piston rings onto the piston, paying attention to their correct orientation (if applicable).
4. Lubricate the piston, rings, and cylinder bore with clean two-stroke engine oil.
5. Carefully compress the piston rings and slide the new cylinder over the piston.
6. Install the new gaskets (cylinder, muffler, intake, carburetor) in their respective positions.
7. Secure the cylinder to the crankcase using the appropriate fasteners, tightening them to the manufacturer's specified torque settings.
8. Reassemble all other components, such as the muffler, carburetor, and air filter assembly.
9. After installation, perform a test run to ensure proper operation and check for any leaks.

5. Operating Principles (After Installation)

Once correctly installed, the cylinder and piston kit forms the core of your brushcutter's engine. The piston moves within the cylinder, driven by the combustion of fuel and air. The piston rings create a seal, ensuring proper compression for efficient power generation. The gaskets provide a tight seal between various engine components, preventing leaks of combustion gases, fuel, and air.

A properly functioning cylinder and piston assembly is essential for the engine to start easily, run smoothly, and deliver consistent power for cutting tasks.

6. Maintenance

To ensure the longevity and optimal performance of your brushcutter and its new cylinder piston kit, adhere to the following maintenance guidelines:

- **Fuel and Oil:** Always use the correct fuel mixture (gasoline and two-stroke oil) as specified by your brushcutter's manufacturer. Incorrect mixtures can lead to premature wear of the piston and cylinder.
- **Air Filter:** Regularly inspect and clean or replace the air filter. A clogged air filter can restrict airflow, causing the engine to run rich and potentially leading to carbon buildup on the piston and cylinder.
- **Spark Plug:** Check and replace the spark plug periodically. A fouled or worn spark plug can affect combustion efficiency.
- **General Cleaning:** Keep the exterior of the engine clean, especially the cooling fins on the cylinder, to ensure proper heat dissipation.

7. Troubleshooting

If you encounter issues after installing the cylinder piston kit, consider the following common troubleshooting steps:

- **Engine Not Starting or Low Compression:**
 - Verify that all gaskets are correctly seated and not pinched, ensuring a proper seal.
 - Check that the piston rings are correctly installed and not broken.
 - Ensure the cylinder head bolts are tightened to the correct torque specifications.
- **Engine Runs Poorly or Lacks Power:**

- Confirm that the carburetor is properly reattached and its gaskets are sealing correctly.
- Check for any air leaks around the intake manifold or carburetor.
- Ensure the muffler is securely attached and its gasket is sealing.

• **General Fitment Issues:**

- **Important:** Many replacement parts look similar. Always double-check your machine's specific model number and compare the physical appearance of the new part with the old one and product photos before installation to confirm compatibility.

If problems persist, consult your brushcutter's service manual or contact a qualified technician.

8. Specifications

Product Dimensions	3.94 x 3.94 x 3.94 inches
Item Weight	1.21 pounds
Manufacturer	Ewon
ASIN	B0CRHM29BM
Country of Origin	China
Item Model Number	143R II 443RB 541RB 541RS 541RST 542RBS

9. Warranty and Support

Warranty: This product comes with a warranty period of 6 months from the date of purchase. Please retain your proof of purchase for any warranty claims.

Customer Support: If you have any questions regarding the product, installation, or require assistance, please do not hesitate to contact us. We aim to answer all inquiries within 24 hours.

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.

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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.

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