

Gear Head for Husqvarna/RedMax Brushcutters

Generic Gear Head Instruction Manual

For Husqvarna and RedMax Brushcutters

1. PRODUCT OVERVIEW

This instruction manual provides essential information for the installation, operation, and maintenance of your new Generic Gear Head. This component is designed as a replacement part for specific Husqvarna and RedMax brushcutter models, enabling the cutting mechanism of your tool.

Important: Always verify compatibility with your specific brushcutter model and original part specifications before installation. Many replacement parts may appear similar but are not interchangeable.

2. COMPATIBILITY

This gear head is compatible with the following brushcutter models and replaces the listed part numbers:

- **Husqvarna Models:** 143R II, 236R, 243R, 243RJ, 253R, 253RJ, 543RS, 553RS
- **RedMax Models:** BCZ400SW, BCZ4000DL

Replaces Part Numbers (PN): 579076201, 528818301, 521655301, 848JG06100

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your brushcutter. Follow these steps carefully:

1. **Safety First:** Ensure the brushcutter engine is turned off and cooled down. Disconnect the spark plug wire to prevent accidental starting. Wear appropriate safety gear, including gloves and eye protection.
2. **Remove Old Gear Head:** Carefully detach the cutting attachment and then unbolt the old gear head from the brushcutter shaft. Note the orientation and any shims or washers for reassembly.
3. **Verify Dimensions:** Before installing the new gear head, confirm that its specifications match your brushcutter's shaft. This gear head features a **28mm shaft tube diameter**, **6.3mm 4 splines**, and an **M12 x 1.75 gear shaft thread**.



Figure 1: Detailed view of the gear head with key dimensions highlighted. Note the 28mm shaft tube, 6.3mm 4 splines, and M12 x 1.75 left-hand thread.

- 4. Install New Gear Head:** Slide the new gear head onto the brushcutter shaft, ensuring the splines align correctly. Secure it with the bolts removed earlier. Tighten all fasteners to the manufacturer's recommended torque specifications (refer to your brushcutter's original manual if available).
- 5. Assemble Components:** Attach the cutting attachment (e.g., trimmer head or blade) to the gear shaft, securing it with the provided nut. Ensure all components are seated correctly and tightened securely.



Figure 2: Exploded view showing the gear head and its accompanying components, including the securing nut and washers for the cutting attachment.

6. **Final Check:** Before starting the brushcutter, manually rotate the cutting attachment to ensure it moves freely and without obstruction. Double-check all bolted connections for tightness.

4. OPERATING CONSIDERATIONS

The gear head itself does not have operational controls. Its function is to transmit power from the brushcutter engine to the cutting attachment. Once installed, operate your brushcutter according to its original manufacturer's instructions. Always ensure the cutting attachment is securely fastened and free from damage before each use.

5. MAINTENANCE

Regular maintenance extends the life of your gear head and ensures safe operation:

- **Cleaning:** After each use, clean the exterior of the gear head to remove grass, dirt, and debris. This prevents buildup that could impede cooling or cause premature wear.
- **Inspection:** Periodically inspect the gear head for any signs of damage, cracks, loose bolts, or excessive wear. Check the cutting attachment for secure fastening.
- **Lubrication:** While this specific gear head's lubrication requirements are not detailed, many gear heads require periodic greasing. Consult your brushcutter's original manual for specific lubrication schedules and types of grease recommended for the gear head assembly.

6. TROUBLESHOOTING

If you encounter issues after installing the gear head, consider the following:

- **Unusual Noise or Vibration:** This could indicate improper installation, loose components, or an incompatible part. Recheck all connections and ensure the gear head is seated correctly. Verify that the cutting attachment is balanced and securely fastened.
- **Cutting Attachment Not Spinning:** Ensure the splines are correctly engaged and the gear shaft nut is tightened. If the issue persists, the internal gears may be damaged (unlikely for a new part, but possible if forced during installation).
- **Overheating:** Excessive heat can be a sign of friction due to improper installation, lack of lubrication (if applicable), or a faulty unit. Discontinue use immediately and inspect.

If troubleshooting steps do not resolve the issue, contact customer support.

7. SPECIFICATIONS

Feature	Specification
Shaft Tube Diameter	28mm
Spline Count & Size	4 Splines, 6.3mm
Gear Shaft Thread	M12 x 1.75 (Left Hand Thread)
Product Dimensions	5.91 x 3.54 x 3.94 inches
Item Weight	1.87 pounds

8. WARRANTY AND SUPPORT

This product comes with a **6-month warranty** from the date of purchase, covering manufacturing defects. If you have any questions, require assistance with installation, or experience issues with your gear head, please contact the seller directly. We aim to answer all inquiries within 24 hours.