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### Stihl FC56C, FS56RC, FS56R, FS94R, HL94, HT56C, KM56RC

# Stihl Starter Cup Pawls Instruction Manual

Model Compatibility: FC56C, FS56RC, FS56R, FS94R, HL94, HT56C, KM56RC

## Introduction

This manual provides essential information for the installation, maintenance, and troubleshooting of your genuine OEM Stihl Starter Cup Pawls. This component is crucial for the proper functioning of the recoil starter mechanism in compatible Stihl outdoor power tools, ensuring reliable engine starting.

## Product Overview



**Figure 1:** Top view of the Stihl Starter Cup Pawls, showing the central threaded hole and the two pawls.



**Figure 2:** Angled view of the Stihl Starter Cup Pawls, highlighting the engagement mechanism.

The starter cup pawls are a critical component of the engine's starting system. When the recoil starter rope is pulled, these pawls extend to engage with the flywheel, rotating the engine to initiate combustion. This genuine OEM part ensures precise fit and reliable operation for your Stihl equipment.

## Compatibility

This OEM starter cup pawls assembly is compatible with the following Stihl models:

- Stihl FC56C
- Stihl FS56RC
- Stihl FS56R
- Stihl FS94R
- Stihl HL94
- Stihl HT56C
- Stihl KM56RC

Always verify your specific model number before purchasing replacement parts to ensure proper fitment and function.

## Specifications

| Attribute | Value |
|---|---|
| Part Type | Starter Cup Pawls Assembly |
| Condition | New OEM |
| Package Dimensions | 2.95 x 1.97 x 0.71 inches |
| Item Weight | 0.16 ounces |

## Installation / Setup

Replacing the starter cup pawls is a common maintenance task that can often be completed with basic tools. Always ensure the engine is off and cool before beginning any work.

1. **Safety First:** Disconnect the spark plug wire to prevent accidental starting. Ensure the engine is completely cool.
2. **Access the Starter Assembly:** Locate the recoil starter assembly on your Stihl equipment. This is typically secured by several screws. You may need a TORX screwdriver for removal, as noted by some users.
3. **Remove Old Part:** Carefully remove the screws holding the starter assembly in place. Once the assembly is off, you will typically find the starter cup pawls attached to the crankshaft or flywheel. It may be secured by a central nut. Use an appropriate wrench or socket to loosen and remove this nut.
4. **Inspect Area:** Before installing the new part, clean any debris or old grease from the area. Inspect the flywheel and surrounding components for any damage.
5. **Install New Part:** Place the new Stihl Starter Cup Pawls onto the shaft, ensuring it seats correctly. Reinstall the central nut and tighten it securely. Some users recommend using a small impact cordless driver with a socket for quick installation.
6. **Reassemble:** Reattach the recoil starter assembly, ensuring all screws are tightened. Consider applying blue thread lock to the housing screws to prevent loosening due to vibration, as suggested by experienced users.
7. **Test:** Reconnect the spark plug wire. Perform a few gentle pulls of the starter rope to ensure the pawls engage smoothly and the engine turns over without issue.

If you are unsure about any step, it is recommended to consult a qualified service technician or refer to your specific equipment's service manual.

## Maintenance

While the starter cup pawls are designed for durability, periodic inspection can extend their lifespan and prevent unexpected failures.

- **Regular Inspection:** Periodically remove the recoil starter assembly and inspect the pawls for signs of wear, such as rounded edges, cracks, or deformation. Also check the springs that actuate the pawls for proper tension and integrity.
- **Cleaning:** Keep the area around the pawls free from dirt, grass clippings, and other debris that can impede their movement. A clean, dry brush or compressed air can be used.
- **Lubrication:** Apply a small amount of light grease or silicone spray to the pivot points of the pawls to ensure smooth operation. Avoid excessive lubrication, which can attract dirt.
- **Proper Starting Technique:** Always pull the starter rope smoothly and fully until resistance is felt, then give a quick, firm pull. Avoid short, jerky pulls or letting the rope snap back, as this can put undue stress on the pawls and recoil mechanism.

## Troubleshooting

If you experience issues with your Stihl equipment's starting mechanism, the starter cup pawls may be a contributing factor. Here are common symptoms and potential solutions:

| Symptom | Possible Cause | Solution |
|---|---|---|
| Starter rope pulls but engine does not turn over (slips) | Worn, broken, or stuck pawls; weak pawl springs. | Inspect pawls and springs. Replace the starter cup pawls assembly if worn or damaged. Clean any debris preventing pawl extension. |
| Grinding noise when pulling starter rope | Pawls not engaging properly or damaged; debris in mechanism. | Inspect pawls for damage or misalignment. Clean the area thoroughly. Replace if pawls are chipped or severely worn. |
| Starter rope difficult to pull or stuck | Pawls stuck in engaged position; debris; recoil spring issue (less likely related to pawls). | Ensure pawls retract fully when not engaged. Clean and lubricate. If issue persists, inspect the entire recoil starter assembly. |

If troubleshooting steps do not resolve the issue, professional service may be required.

## Warranty and Support

As a genuine OEM Stihl part, this product is manufactured to high standards. For specific warranty information, please refer to the warranty policy provided by Stihl or your authorized Stihl dealer at the time of purchase. For technical support or further assistance, contact an authorized Stihl service center.
You can find more information and locate authorized dealers on the officialStihl USA website.

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