

Honda 28400-ZH8-013YA

Honda 28400-ZH8-013YA Recoil Starter Instruction Manual

Genuine OEM Part for Honda Engines and Equipment

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the Honda Genuine OEM Recoil Starter, part number 28400-ZH8-013YA. This component is a direct replacement part designed to ensure reliable starting for compatible Honda engines and power equipment.



Figure 1: Honda 28400-ZH8-013YA Recoil Starter, new in original packaging. This image shows the red starter assembly with a black pull handle, enclosed in clear plastic.

2. COMPATIBILITY

The 28400-ZH8-013YA Recoil Starter is compatible with specific Honda engine and equipment models. Please verify your model number before installation.

Compatible Engine Models:

- Honda GX120K1
- Honda GX120T1
- Honda GX160K1
- Honda GX160T1
- Honda GX200
- Honda GX200T

Compatible Tiller Models:

- Honda F401K2
- Honda F501K2
- Honda FR600
- Honda FR650
- Honda FR750

Compatible Water Pump Models:

- Honda WB20XK1
- Honda WB30XK1
- Honda WD20XK1
- Honda WD30XK1
- Honda WDP20X
- Honda WDP20XT
- Honda WDP30X
- Honda WDP30XT
- Honda WH15XK1
- Honda WH20XK1
- Honda WP20X
- Honda WP30X
- Honda WT20XK2
- Honda WT30XK3

3. INSTALLATION INSTRUCTIONS

Safety First: Always ensure the engine is turned off, cooled down, and the spark plug cap is disconnected before attempting any maintenance or installation. Wear appropriate safety gear, including gloves and eye protection.

1. **Prepare the Engine:** Position the engine or equipment on a stable, flat surface.
2. **Locate the Old Starter:** Identify the existing recoil starter assembly on your engine.
3. **Remove Old Starter:** Carefully unbolt and remove the old recoil starter. Note the orientation and any washers or spacers.

4. **Inspect Mounting Area:** Clean any debris from the mounting surface on the engine block.
5. **Position New Starter:** Align the new Honda 28400-ZH8-013YA recoil starter with the mounting holes.
6. **Secure New Starter:** Install the bolts and tighten them securely, but do not overtighten. Ensure the starter rope pulls smoothly without binding.
7. **Reconnect Spark Plug:** Once the new starter is securely in place, reconnect the spark plug cap.
8. **Test Operation:** Perform a few slow pulls on the starter rope to ensure proper engagement and retraction before attempting to start the engine.



Figure 2: Underside view of the Honda 28400-ZH8-013YA Recoil Starter, showing the internal white pulley and spring mechanism. This view is helpful for understanding how the starter engages with the engine.

4. OPERATING THE RECOIL STARTER

After proper installation, the recoil starter functions by manually rotating the engine crankshaft to initiate the combustion cycle. To operate:

1. Ensure the engine's fuel supply is on and the choke (if applicable) is set correctly for starting.
2. Grasp the starter handle firmly.
3. Pull the rope slowly until resistance is felt (this indicates the starter pawls have engaged the flywheel).
4. Give a quick, strong pull on the rope, extending your arm fully. Do not let the rope snap back; guide it gently as it retracts.
5. Repeat if necessary until the engine starts.

Note: Avoid excessive force or letting the rope snap back, as this can damage the starter mechanism or the rope itself.

5. MAINTENANCE

While the recoil starter is a robust component, proper care can extend its lifespan:

- **Keep Clean:** Periodically clean the exterior of the starter assembly to prevent dirt and debris from entering the mechanism.
- **Inspect Rope:** Regularly check the starter rope for fraying or wear. Replace the rope if any damage is observed.
- **Lubrication:** The internal spring mechanism is typically pre-lubricated. Avoid applying excessive lubricants, as this can attract dirt. Consult your engine's specific service manual for detailed lubrication recommendations.
- **Storage:** When storing equipment, ensure the starter rope is fully retracted and not exposed to harsh elements.

6. TROUBLESHOOTING COMMON ISSUES

If you experience issues with your recoil starter, consider the following:

- **Rope Not Retracting:**
 - Check for debris obstructing the rope or spring mechanism.
 - The recoil spring may be broken or dislodged. This typically requires replacement of the starter assembly.
- **Rope Pulls Freely (No Engagement):**
 - The starter pawls may be stuck or broken, preventing engagement with the engine's flywheel.
 - The internal spring mechanism might be damaged.
- **Rope is Frayed or Broken:**
 - The rope needs to be replaced. While possible to replace just the rope, it often requires disassembling the starter, which can be complex due to the spring tension. Replacing the entire assembly is often simpler.

For complex issues or if you are unsure, it is recommended to consult a qualified service technician or refer to your engine's comprehensive service manual.

7. SPECIFICATIONS

Specification	Value
Part Number	28400-ZH8-013YA
Manufacturer	Honda
Item Weight	1.06 pounds (approx. 0.48 kg)
Package Dimensions	9.61 x 8.5 x 2.6 inches (approx. 24.4 x 21.6 x 6.6 cm)
Type	Recoil Starter Assembly
Origin	Made in Japan (as indicated on product label)

8. WARRANTY AND SUPPORT

This product is a Genuine Original Equipment Manufacturer (OEM) part from Honda. As an OEM part, it is manufactured to Honda's strict quality standards and specifications.



Figure 3: Logos indicating genuine Honda OEM parts for engines and power equipment. These logos confirm the authenticity of the replacement part.

For specific warranty information, please refer to the official Honda warranty policy provided with your original engine or equipment, or visit the official Honda Power Equipment website. For technical support or further assistance, contact an authorized Honda service dealer.

Important: Use of non-genuine parts may void your equipment's warranty and could lead to performance issues or damage.