

BH-Motor 150-012

BH-Motor Recoil Starter Pull Start Instruction Manual

For Subaru Robin EX17, EH17, EY17, EY-20, SP170, PKX301, PK301ST, RGX2900 6 HP Engines

Model: 150-012

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your BH-Motor Recoil Starter. Designed as a direct replacement part, this recoil starter is compatible with various Subaru Robin 6 HP engines. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. PRODUCT COMPATIBILITY

This recoil starter is designed to replace original equipment manufacturer (OEM) part numbers **269-50201-30** and **269-50201-40**. It is compatible with the following Subaru Robin 6 HP engine models:

- Subaru Robin EX17
- Subaru Robin EH17
- Subaru Robin EY17
- Subaru Robin EY-20
- Subaru Robin SP170
- Subaru Robin PKX301
- Subaru Robin PK301ST
- Subaru Robin RGX2900

Always verify your engine's model number and existing part number before installation to ensure proper fitment.

3. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage:

- Always disconnect the spark plug wire before performing any maintenance or installation to prevent

accidental engine startup.

- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation.
- Ensure the engine is cool before handling any components.
- Keep hands and clothing clear of moving parts when testing the starter.
- If you are unsure about any step, consult a qualified technician.

4. INSTALLATION INSTRUCTIONS

Follow these steps to install the BH-Motor Recoil Starter:

1. **Prepare the Engine:** Ensure the engine is turned off and cool. Disconnect the spark plug wire to prevent accidental starting.
2. **Locate and Remove Old Starter:** Identify the existing recoil starter assembly on your engine. Typically, it is secured by several bolts around its perimeter. Use an appropriate wrench or socket to carefully remove these bolts.
3. **Detach Old Starter:** Once all bolts are removed, gently pull the old recoil starter assembly away from the engine. Note how it was positioned.
4. **Inspect Mounting Area:** Clean any debris or dirt from the engine's mounting surface where the starter attaches.
5. **Position New Starter:** Align the new BH-Motor Recoil Starter with the mounting holes on the engine. Ensure the starter rope handle is accessible and oriented correctly.



Image 1: Front view of the BH-Motor Recoil Starter, showing the pull handle and internal mechanism. This view helps in identifying the correct orientation for installation.



Image 2: Back view of the BH-Motor Recoil Starter, illustrating the mounting points and the smooth casing that faces the engine. This view is useful for aligning the starter with the engine's flywheel cup.

6. **Secure the Starter:** Insert the mounting bolts through the new starter and into the engine block. Tighten the bolts evenly and securely. Do not overtighten, as this can damage the housing.
7. **Reconnect Spark Plug:** Once the starter is securely mounted, reconnect the spark plug wire.
8. **Test Operation:** Gently pull the starter rope a few times to ensure it engages the engine's flywheel cup smoothly and retracts fully.

5. OPERATING INSTRUCTIONS

To start your engine using the recoil starter:

1. **Prepare Engine for Start:** Follow your engine manufacturer's instructions for starting, which may include setting the choke, throttle, and fuel valve.
2. **Grip Handle Firmly:** Grasp the recoil starter handle firmly.
3. **Pull Slowly to Engage:** Pull the starter rope slowly until you feel resistance. This indicates that the starter pawls have engaged the flywheel cup.
4. **Pull Sharply:** Once resistance is felt, pull the rope with a quick, strong, and smooth motion. Do not pull the rope to its full extension or let it snap back. Allow it to retract smoothly.

5. **Repeat if Necessary:** If the engine does not start, repeat the pulling process.

Important: Avoid excessive force or jerking the rope, as this can damage the starter mechanism or the rope itself.

6. MAINTENANCE

Regular maintenance helps prolong the life of your recoil starter:

- **Cleaning:** Periodically clean the exterior of the recoil starter to remove dirt, dust, and debris. Use a dry cloth or soft brush.
- **Rope Inspection:** Inspect the starter rope for signs of fraying, cuts, or excessive wear. Replace the rope if any damage is observed.
- **Spring Tension:** If the rope does not retract fully, the internal spring may need adjustment or replacement. This typically requires disassembly and is best performed by a qualified technician.
- **Storage:** When not in use for extended periods, store the engine in a clean, dry environment to protect the starter from moisture and corrosion.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Starter rope does not retract fully.	Broken or weak recoil spring; debris inside housing.	Inspect for debris and clear. If spring is damaged, replacement by a technician is recommended.
Starter rope is hard to pull or jammed.	Rope tangled; pawls stuck; internal mechanism obstructed.	Do not force. Disconnect spark plug, remove starter, and inspect for obstructions.
Engine does not crank when rope is pulled.	Starter pawls not engaging flywheel cup; engine issue (not starter).	Ensure starter is correctly installed. If pawls are damaged, replace starter. Check engine's fuel, ignition, and compression.
Starter rope is frayed or broken.	Wear and tear; improper pulling technique.	Replace the starter rope. Ensure smooth pulling motion during operation.

If problems persist after troubleshooting, contact BH-Motor customer support or a certified service technician.

8. SPECIFICATIONS

Feature	Detail
Brand	BH-Motor
Model Number	150-012
Replaces OEM Part Numbers	269-50201-30, 269-50201-40

Feature	Detail
Compatible Engine Types	Subaru Robin EX17, EH17, EY17, EY-20, SP170, PKX301, PK301ST, RGX2900 (6 HP)
Package Dimensions	7.95 x 7.91 x 1.93 inches
Item Weight	14.82 ounces

9. WARRANTY AND SUPPORT


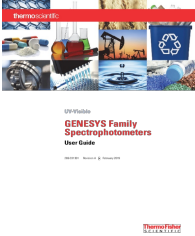
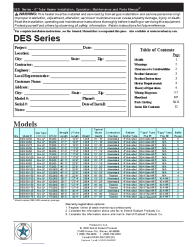
BH-Motor products are manufactured to high standards. For information regarding warranty coverage or technical support, please refer to the warranty documentation included with your purchase or contact BH-Motor customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official BH-Motor website or contact their customer support channels.

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This manual is for informational purposes only. BH-Motor is not responsible for any damage or injury resulting from improper installation or use of this product.

Related Documents - 150-012

	<p>Jowat Adhesives Product Guide for Woodworking and Furniture Industries</p> <p>A comprehensive product guide from Jowat Corporation detailing their formaldehyde-free adhesive solutions for woodworking, furniture manufacturing, and edgebanding applications. Features product categories, specifications, and company information.</p>
	<p>Thermo Scientific GENESYS Spectrophotometers User Guide</p> <p>Comprehensive user guide for Thermo Scientific GENESYS family UV-Visible spectrophotometers, covering operation, software, and accessories for models like GENESYS 40, 50, 140, 150, 180, and BioMate 160.</p>
	<p>Detroit Radiant Products DES Series 4" Tube Heater Installation, Operation, Maintenance, and Parts Manual</p> <p>Comprehensive manual for Detroit Radiant Products DES Series 4-inch tube heaters, covering installation, operation, maintenance, safety warnings, technical specifications, wiring diagrams, troubleshooting, and parts lists. Includes model details from DES 20-50 to DES 60-175.</p>

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HILTI Vacuum Cleaner Parts and Accessories Catalog

Comprehensive list of HILTI vacuum cleaner parts and accessories, including item numbers and descriptions for various VC and AIC models.



TERMOFOL Heating Mat Installation Guide and Technical Specifications

This guide provides comprehensive instructions for installing TERMOFOL heating mats, covering technical data, safety zones, installation steps, first start-up, and user obligations. Includes detailed specifications for TF-HM series models.



[HL3 Series Infrared Tube Heater Insert Manual | Installation, Operation, Safety, Troubleshooting, Parts](#)

Comprehensive insert manual for the RE-VERBER-RAY HL3 Series infrared tube heater. Provides essential information on installation, operation, safety precautions, troubleshooting guides, and parts lists for commercial and industrial use.