

## KING PS-49B-10

# KING PS-49B-10 2-Stroke Engine Pull Start Starter Instruction Manual

Model: PS-49B-10

## INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your KING PS-49B-10 pull start starter. This starter is designed for use with 33cc, 36cc, 43cc, and 49cc 2-stroke gas engines commonly found in scooters and pocket bikes. Please read this manual thoroughly before use and retain it for future reference.

## SAFETY INFORMATION

**WARNING:** Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including gloves and eye protection, when handling or installing the starter.
- Ensure the engine is turned off and cooled down before attempting any installation or maintenance.
- Keep hands and clothing clear of moving parts during engine starting.
- Do not modify the starter in any way. Use only genuine replacement parts.
- If you are unsure about any installation or operation procedure, consult a qualified technician.

## PARTS IDENTIFICATION

The KING PS-49B-10 pull start starter consists of the following main components:

- Starter Housing
- Pull Handle and Rope
- Recoil Spring Mechanism
- Starter Pawls/Claws
- Mounting Holes



**Figure 1:** Front view of the KING PS-49B-10 pull start starter. This image displays the black plastic housing, the ergonomic pull handle with its rope, and the central engagement mechanism secured by a Phillips head screw. The internal recoil spring is visible through the transparent section.



**Figure 2:** Rear view of the KING PS-49B-10 pull start starter. This image shows the solid black plastic housing and the four pre-drilled mounting holes located at each corner, used for securing the starter to the engine block.

## INSTALLATION INSTRUCTIONS

1. **Prepare the Engine:** Ensure the engine is off and cool. Disconnect the spark plug wire for safety.
2. **Remove Old Starter (if applicable):** Carefully unbolt and remove the existing pull start starter from the engine casing. Note the orientation and any spacers.
3. **Position New Starter:** Align the KING PS-49B-10 starter with the mounting holes on the engine. Ensure the starter pawls are correctly positioned to engage with the flywheel cup.

- 4. **Secure the Starter:** Insert the appropriate mounting bolts (not included) through the starter's mounting holes and into the engine block. Tighten the bolts securely, but do not overtighten, to avoid cracking the housing.
- 5. **Verify Engagement:** Gently pull the starter rope a few times to ensure the pawls engage and disengage smoothly with the flywheel cup. The rope should retract fully.
- 6. **Reconnect Spark Plug:** Once installation is complete and verified, reconnect the spark plug wire.

## OPERATING INSTRUCTIONS

- 1. **Engine Preparation:** Ensure the engine is properly fueled and oiled according to the engine manufacturer's specifications. Set the choke and throttle as required for starting.
- 2. **Pulling the Rope:** Grip the pull handle firmly. Pull the rope slowly until you feel resistance (this indicates the pawls have engaged the flywheel).
- 3. **Starting the Engine:** Once resistance is felt, pull the rope with a quick, strong, and smooth motion. Do not pull the rope to its absolute maximum extension.
- 4. **Rope Retraction:** Allow the rope to retract slowly and completely into the starter housing. Do not release the handle abruptly, as this can damage the recoil mechanism.
- 5. **Repeat if Necessary:** If the engine does not start, repeat the pulling process. Avoid excessive pulling without allowing the starter to cool down if it becomes hot.

## MAINTENANCE

- **Cleaning:** Keep the starter housing clean and free of dirt, debris, and oil. Use a damp cloth to wipe the exterior.
- **Rope Inspection:** Periodically inspect the pull rope for fraying or damage. Replace the rope if any wear is observed.
- **Recoil Mechanism:** The internal recoil mechanism is generally maintenance-free. Do not attempt to disassemble the starter unless you are experienced with such repairs, as the recoil spring can be under tension.
- **Mounting Bolts:** Check the mounting bolts periodically to ensure they remain tight.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Rope does not retract fully.	Damaged recoil spring or rope guide.	Inspect for obstructions. If spring is damaged, replacement of the starter assembly may be necessary.
Starter pawls do not engage flywheel.	Worn pawls or incorrect installation.	Check alignment and ensure pawls are not worn. Replace starter if pawls are damaged.
Rope is frayed or broken.	Normal wear and tear or improper pulling technique.	Replace the pull rope. Ensure smooth pulling motion.
Engine does not start after multiple pulls.	This issue is likely related to the engine itself, not the starter.	Check engine fuel, spark plug, carburetor, and compression. Consult your engine's manual.

## SPECIFICATIONS

- **Model:** KING PS-49B-10



- **Compatibility:** 33cc, 36cc, 43cc, 49cc 2-stroke gas engines
- **Application:** Gas Scooters, Pocket Bikes
- **Material:** Durable plastic housing
- **UPC:** 748347727081
- **Manufacturer Part Number:** PS-49B-10


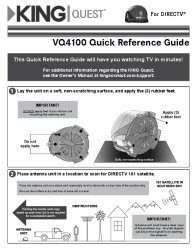
## WARRANTY AND SUPPORT

For warranty information or technical support regarding your KING PS-49B-10 pull start starter, please refer to the retailer where the product was purchased or visit the official KING website. Please have your model number (PS-49B-10) and proof of purchase available when contacting support.

*Note: This manual is for informational purposes only. Specifications are subject to change without notice.*

### Related Documents - PS-49B-10

	<a href="#">King KDSR Series Electric Heater Installation, Operation, and Maintenance Manual</a> Comprehensive guide for King KDSR Series electric heaters (2 kW to 5 kW), covering installation, safe operation, and regular maintenance. Includes important safety warnings and instructions for standard and suspended ceiling mounting.
	<a href="#">King KKM1173 Frezzio Katı Meyve Sıkacağı Kullanım Kılavuzu ve Garanti Bilgileri</a> Kullanım kılavuzu ve garanti bilgileri için King KKM1173 Frezzio Katı Meyve Sıkacağı. Ürün özellikleri, güvenlik talimatları, bakım ve temizlik önerileri.
	<a href="#">King KBÜ700 Larsen Buharlı Ütü Kullanım Kılavuzu</a> Detaylı kullanım kılavuzu, güvenlik talimatları, bakım ve sorun giderme bilgileri içeren King KBÜ700 Larsen buharlı ütü kullanım rehberi.
	<a href="#">King H Series Hydronic Wall Heaters: Installation Guide and Specifications</a> Comprehensive installation instructions, safety warnings, mounting guidelines, wiring diagrams, and product specifications for King H Series Hydronic Wall Heaters. Includes model details, BTU ratings, and thermostat compatibility.

	<p><a href="#">King K451 Haz Turkish Coffee Maker User Manual and Warranty Information</a></p> <p>Detailed user manual and warranty information for the King K451 Haz Turkish Coffee Maker, including operating instructions, safety warnings, cleaning procedures, troubleshooting, and warranty terms.</p>
	<p><a href="#">KING QUEST VQ4100 Satellite TV Antenna Quick Start Guide</a></p> <p>Quick reference guide for setting up the KING QUEST VQ4100 satellite TV antenna for DIRECTV reception, covering placement, connections, and initial scanning.</p>