

## PRORUN PSST217

# PRORUN 25.4cc 17-inch Gas-Powered 2-Cycle Straight Shaft Trimmer User Manual

Model: PSST217

## 1. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this gas-powered trimmer. Failure to follow these instructions may result in serious injury or death.

### General Safety Warnings

- **Personal Protective Equipment (PPE):** Always wear eye protection (safety glasses or goggles), hearing protection, heavy-duty long pants, long sleeves, gloves, and sturdy footwear when operating the trimmer.
- **Fuel Handling:** Handle gasoline with extreme care. It is highly flammable. Store fuel in an approved container in a well-ventilated area, away from sparks, open flames, or other ignition sources. Never refuel a hot engine.
- **Work Area:** Keep children, bystanders, and pets at least 50 feet (15 meters) away from the work area. Clear the work area of debris, rocks, and other objects that could be thrown by the cutting line.
- **Operation:** Operate the trimmer only in well-ventilated outdoor areas. Do not operate in wet conditions. Maintain a firm grip on the trimmer with both hands. Avoid contact with the rotating cutting line.
- **Maintenance:** Disconnect the spark plug wire before performing any maintenance or repairs to prevent accidental starting.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package before assembly.

- PRORUN 25.4cc 17-inch Gas-Powered 2-Cycle Straight Shaft Trimmer (Powerhead and Shaft Assembly)
- Trimmer Head with .095 line
- Deflector Shield
- Adjustable Loop Handle
- Harness
- Maintenance Tools (Wrench, Screwdriver)

# PRORUN®



Maintenance Tools



Harness



PRORUN Warranties

## PSST217: Straight Shaft, Attachment Capable Trimmer

Figure 2.1: PRORUN PSST217 Trimmer and included accessories, including maintenance tools and a shoulder harness.

### 3. ASSEMBLY INSTRUCTIONS

Follow these steps to assemble your PRORUN Straight Shaft Trimmer.

#### 3.1 Attaching the Deflector Shield

1. Align the deflector shield with the mounting holes on the trimmer shaft.
2. Secure the shield using the provided screws and tighten them firmly with a screwdriver. Ensure the shield is stable and does not wobble.

#### 3.2 Installing the Loop Handle

1. Slide the adjustable loop handle onto the trimmer shaft.
2. Position the handle for comfortable operation, typically around the middle of the shaft.
3. Tighten the handle clamp securely to prevent rotation during use.

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ATTACHMENTS



## PSST217: Straight Shaft, Attachment Capable Trimmer

Figure 3.1: Key components of the PRORUN trimmer, including the engine, adjustable loop handle, durable cast aluminum shaft, and 17-inch bump-feed cutting head.

### 4. SETUP AND FUELING

Proper fuel mixture and starting procedures are crucial for optimal performance and longevity.

#### 4.1 Fuel Mixing

This trimmer uses a 2-cycle engine and requires a mixture of gasoline and 2-cycle engine oil. Refer to the engine oil manufacturer's instructions for the correct mixing ratio, typically 50:1 (2.6 oz of oil per gallon of gasoline) or 40:1 (3.2 oz of oil per gallon of gasoline).

- Use fresh, unleaded gasoline with an octane rating of 89 or higher.
- Use high-quality 2-cycle engine oil specifically designed for air-cooled engines.
- Mix fuel in an approved fuel container. Shake the container thoroughly before fueling the trimmer.

#### 4.2 Fueling the Trimmer

1. Ensure the engine is cool and turned off.
2. Place the trimmer on a flat, stable surface.
3. Carefully open the fuel cap.
4. Pour the mixed fuel into the fuel tank, avoiding overfilling.
5. Securely replace the fuel cap. Wipe up any spilled fuel immediately.



Figure 4.1: The engine and large, easy-fill fuel tank of the PRORUN trimmer.

## 5. OPERATING INSTRUCTIONS

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Learn how to start, operate, and stop your PRORUN trimmer safely and effectively.

### 5.1 Starting the Engine (Spring-Assist Starting)

1. Place the trimmer on a flat, clear surface.
2. Set the ON/OFF switch to the 'ON' position.
3. Press the primer bulb 7-10 times until fuel is visible in the return line.
4. Move the choke lever to the 'FULL CHOKE' position.
5. Pull the starter rope slowly until resistance is felt, then pull quickly and firmly 1-3 times until the engine 'pops' or attempts to start.
6. Move the choke lever to the 'HALF CHOKE' position.
7. Pull the starter rope quickly and firmly 1-3 times until the engine starts.
8. Once the engine runs, move the choke lever to the 'RUN' position. Allow the engine to warm up for 30-60 seconds before operating at full throttle.



Figure 5.1: Location of the primer bulb for engine starting.

## 5.2 Operating the Trimmer

- Hold the trimmer firmly with both hands, ensuring a balanced stance.
- Use the shoulder harness for added comfort and control, especially during extended use.
- Maintain a safe distance from objects and bystanders.
- Cut grass by swinging the trimmer from side to side, using the tip of the cutting line.
- For edging, tilt the trimmer head to a vertical position and carefully guide it along the edge.



Figure 5.2: The 17-inch cutting swath with .095 line and bump feed head effectively trimming grass.

## 5.3 Stopping the Engine

To stop the engine, simply move the ON/OFF switch to the 'OFF' position.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your trimmer.

### 6.1 Air Filter Cleaning

The air filter should be checked and cleaned regularly, especially in dusty conditions.

1. Ensure the engine is off and cool.
2. Locate the tool-less air filter cover.
3. Remove the cover and carefully take out the air filter.
4. Clean the filter by tapping it gently or washing it with warm, soapy water. Allow it to dry completely before

reinstallation. Replace if heavily soiled or damaged.

## 6.2 Spark Plug Inspection

Inspect the spark plug periodically for wear or carbon buildup.

1. Disconnect the spark plug wire.
2. Use the provided spark plug wrench to remove the spark plug.
3. Clean any carbon deposits with a wire brush. Check the electrode gap and adjust if necessary (refer to specifications for correct gap). Replace if worn or damaged.

## 6.3 Trimmer Line Replacement

The trimmer head uses .095-inch diameter line. Replace the line when it becomes too short or worn.

1. Ensure the engine is off and the spark plug wire is disconnected.
2. Locate the bump feed head. Depending on the head design, you may need to press tabs or unscrew a cap to access the spool.
3. Remove any remaining old line.
4. Cut a new length of .095-inch trimmer line (typically 15-20 feet).
5. Follow the arrows on the trimmer head to correctly wind the new line onto the spool. Leave a few inches of line protruding from the eyelets.
6. Reassemble the trimmer head.





Figure 6.1: The bump feed trimmer head, showing the cutting line exit points.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your trimmer.

Problem	Possible Cause	Solution
Engine does not start	<ul style="list-style-type: none"><li>• No fuel or incorrect fuel mix</li><li>• Choke not set correctly</li><li>• Spark plug fouled or loose</li><li>• Air filter clogged</li></ul>	<ul style="list-style-type: none"><li>• Check fuel level and mix ratio</li><li>• Adjust choke according to starting procedure</li><li>• Clean or replace spark plug; ensure wire is connected</li><li>• Clean or replace air filter</li></ul>

Problem	Possible Cause	Solution
Engine runs, but cuts out	<ul style="list-style-type: none"><li>• Clogged fuel filter</li><li>• Stale fuel</li><li>• Carburetor issues</li></ul>	<ul style="list-style-type: none"><li>• Replace fuel filter</li><li>• Drain old fuel and refill with fresh mix</li><li>• Consult a qualified service technician</li></ul>
Trimmer line does not advance	<ul style="list-style-type: none"><li>• Line tangled or fused</li><li>• Insufficient line on spool</li><li>• Trimmer head mechanism jammed</li></ul>	<ul style="list-style-type: none"><li>• Remove and untangle/rewind line</li><li>• Reload with new line</li><li>• Clean trimmer head, ensure all parts move freely</li></ul>

## 8. SPECIFICATIONS

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Feature	Detail
Model	PSST217
Engine Type	2-Cycle Gas Engine
Engine Displacement	25.4cc
Horsepower	1.0 HP
Cutting Swath	17 inches
Trimmer Line Diameter	.095 inches
Shaft Type	Straight Shaft
Starting System	Spring-Assist Starting
Approximate Weight	15.6 lbs
Product Dimensions	71.3"L x 13.6"W

## 9. WARRANTY AND SUPPORT

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PRORUN offers a limited warranty for this product.

- **Residential Use:** 3-Year Limited Warranty
- **Commercial Use:** 1-Year Limited Warranty

For warranty claims, technical support, or replacement parts, please contact PRORUN Customer Service.

**Phone:** 1-844-905-0882

**Email:** [info@proruntech.com](mailto:info@proruntech.com)



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Figure 9.1: PRORUN Limited Warranty details for residential and commercial use.