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› [RYOBI 25 cc 2-Stroke Gas String Trimmer Model RY252CSVNM Instruction Manual](#)

## RYOBI RY252CSVNM

# RYOBI 25 cc 2-Stroke Gas String Trimmer

MODEL: RY252CSVNM

## 1. SAFETY INFORMATION

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Read and understand all safety warnings and instructions before operating this string trimmer. Failure to follow these instructions may result in serious injury.

- **Eye Protection:** Always wear eye protection that complies with ANSI Z87.1 when operating the trimmer.
- **Protective Clothing:** Wear long pants, sturdy shoes, and gloves. Avoid loose clothing that could get caught in moving parts.
- **Flammable Materials:** Do not operate the trimmer near flammable liquids, gases, or dust. The engine produces sparks that can ignite these materials.
- **Clear Work Area:** Keep children, bystanders, and pets at a safe distance (at least 50 feet or 15 meters) from the operating area.
- **Inspect Before Use:** Before each use, inspect the trimmer for loose fasteners, damaged parts, or fuel leaks. Do not operate if damaged.
- **Fuel Handling:** Handle fuel with extreme care. Fuel is highly flammable. Always refuel outdoors and away from ignition sources.

## 2. PRODUCT OVERVIEW

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The RYOBI 25 cc 2-Stroke Gas String Trimmer is designed for efficient lawn and garden trimming tasks. It features a full crank engine for durability and is attachment-capable, allowing for versatility with various Expand-It attachments.



Image 1: The RYOBI 25 cc 2-Stroke Gas String Trimmer, showcasing its curved shaft design and engine.

### Key Features:

- **Full Crank Engine:** Engineered for extended life and consistent performance.
- **Attachment Capable:** Compatible with universal brand fit attachments, expanding its functionality.
- **Zip Start Carburetor:** Facilitates easier engine starting.
- **Reel-Easy Bump-Feed String Head:** Designed for quick and simple line reloads.
- **Dual 0.095 in. Line:** Provides effective cutting performance.
- **Curved Shaft:** Contributes to lighter trimming and reduced user fatigue.
- **17 In. Cutting Path:** Offers a wide cutting diameter for efficient work.

### 3. ASSEMBLY

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This RYOBI string trimmer typically requires minimal assembly. It is often shipped largely pre-assembled. Refer to the included quick start guide or packaging for specific instructions on attaching the guard and handle, if necessary.

## 4. SETUP

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### 4.1 Fueling the Trimmer

1. Ensure the engine is off and cool before refueling.
2. Mix fresh unleaded gasoline with 2-stroke engine oil at the ratio specified in your engine's manual (typically 50:1 or 40:1). Use a clean fuel container.
3. Carefully remove the fuel cap.
4. Pour the mixed fuel into the fuel tank, being careful not to overfill.
5. Securely replace the fuel cap and wipe up any spilled fuel.

### 4.2 Loading Trimmer Line (Reel-Easy Head)

The Reel-Easy bump-feed head simplifies line loading:

1. Align the arrows on the trimmer head with the eyelets.
2. Insert a new length of 0.095 in. trimmer line through one eyelet and push it straight through until it exits the opposite eyelet.
3. Pull the line through until an equal amount extends from both sides of the head.
4. Twist the trimmer head knob clockwise to wind the line into the head. Continue twisting until only 5-6 inches of line extend from each side.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Starting the Engine (Zip Start Carburetor)

1. Place the trimmer on a flat, clear surface.
2. Set the ON/OFF switch to the ON position.
3. Prime the carburetor bulb 10 times or until fuel is visible.
4. Set the choke lever to the FULL CHOKE position.
5. Pull the starter rope firmly and steadily until the engine attempts to start (usually 1-3 pulls).
6. Once the engine attempts to start, move the choke lever to the HALF CHOKE position.
7. Pull the starter rope again until the engine starts.
8. Allow the engine to run for 10-15 seconds, then move the choke lever to the RUN position.
9. If the engine stalls, repeat the starting procedure.

### 5.2 Trimming Operation

- Hold the trimmer firmly with both hands, maintaining a balanced stance.
- Keep the trimmer head parallel to the ground for an even cut.
- Use a sweeping motion, moving the trimmer from side to side.
- To advance the trimmer line, gently tap the bump-feed head on the ground while the engine is running at full throttle.
- Avoid contact with hard objects, fences, or trees to prevent damage to the line and trimmer head.

- For attachment use, refer to the specific instructions provided with your Expand-It attachment.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your trimmer. Always disconnect the spark plug wire before performing any maintenance.

### 6.1 Air Filter

- Check the air filter regularly, especially in dusty conditions.
- Clean or replace the air filter as needed to prevent engine damage and maintain performance.

### 6.2 Spark Plug

- Inspect the spark plug annually or every 25 hours of operation.
- Clean or replace if fouled, worn, or damaged. Ensure the correct gap is maintained.

### 6.3 Fuel Filter

- Replace the fuel filter annually or if fuel delivery issues occur.

### 6.4 General Cleaning and Storage

- Clean the exterior of the trimmer after each use, removing grass clippings and debris.
- Before long-term storage, drain the fuel tank or use a fuel stabilizer to prevent fuel degradation.
- Store the trimmer in a clean, dry, well-ventilated area, out of reach of children.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Engine will not start	No fuel, incorrect choke setting, fouled spark plug, clogged fuel filter.	Check fuel level and mix. Adjust choke. Clean/replace spark plug. Replace fuel filter.
Engine runs poorly/stalls	Dirty air filter, stale fuel, incorrect fuel mix, carburetor issues.	Clean/replace air filter. Use fresh fuel. Verify fuel mix ratio. Consult service center for carburetor.
Trimmer line does not advance	Line tangled, insufficient line, line fused in head.	Inspect and untangle line. Reload new line. Disassemble head to free fused line.
Excessive vibration	Damaged trimmer head, bent shaft, loose components.	Inspect trimmer head for damage. Check for loose bolts or connections. If shaft is bent, seek professional service.

## 8. SPECIFICATIONS

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Specification	Detail
Brand	RYOBI
Model Number	RY252CSVNM

Specification	Detail
Engine Type	2-Stroke, 25 cc
Power Source	Gasoline-powered
Cutting Width	17 Inches
Trimmer Line Diameter	0.095 in. (Dual Line)
Shaft Type	Curved Shaft
Attachment Capable	Yes (Universal Brand Fit)
Item Weight	8 Pounds
Product Dimensions	38"L x 8"W
UPC	604467842243

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to locate authorized service centers, please refer to the warranty card included with your product or visit the official RYOBI website. Keep your purchase receipt as proof of purchase for warranty claims.

