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**CLSR2U 00009890516**

# CLSR2U Air Vane Choke Spring Instruction Manual

Model: 00009890516 | Brand: CLSR2U

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## 1. PRODUCT OVERVIEW

The CLSR2U Air Vane Choke Spring is a replacement component designed to restore proper auto-choke functionality in compatible lawn mower engines. This spring plays a crucial role in maintaining the correct tension on the air vane choking system, which is essential for reliable engine starting.

This product is a direct replacement for part number 790849 and is suitable for use with various lawn mowers, including models from Toro, Lawn Boy, Craftsman, and Troy Bilt that utilize Briggs & Stratton engines.



Image 1.1: A set of five CLSR2U Air Vane Choke Springs.

## 2. KEY FEATURES

- **Auto-Choke System Integration:** Designed to function as an integral part of the engine's auto-choke mechanism.
- **Optimal Tension:** Ensures proper tension on the air vane choking system for efficient engine operation.
- **Broad Compatibility:** Compatible with many Toro, Lawn Boy, Craftsman, and Troy Bilt lawn mowers equipped with Briggs & Stratton engines.
- **Easy Installation:** Engineered for straightforward installation, facilitating a return to single-pull starting.
- **Direct Replacement:** Replaces OEM part number 790849.
- **Quantity:** Each package includes 5 air vane choke springs.

# to fix the choke on mower

## bring your mower back to single-pull start



Image 2.1: The springs are designed to restore single-pull starting capability.

### 3. INSTALLATION GUIDE

#### 3.1 Safety Precautions

- Always ensure the engine is turned off and cooled down before beginning any maintenance or installation.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment, such as gloves and eye protection.

#### 3.2 Replacing the Air Vane Choke Spring

1. Locate the carburetor and the existing air vane choke spring on your lawn mower engine. Refer to your mower's specific service manual for exact component locations if needed.
2. Carefully remove the old spring. Note its orientation and how it connects to the air vane and carburetor linkage.
3. Take one of the new CLSR2U air vane choke springs (part #790849 replacement).
4. Attach the new spring in the same manner as the original. Ensure it is securely fastened and provides the correct tension to the air vane. The spring should allow the air vane to move freely but return to its choke position when the engine is cold.
5. Reconnect the spark plug wire.
6. Test the engine to ensure proper choke operation and starting.

# Replace the part# 790849

## Fit for Toro Craftsman Troy Bilt Briggs & Stratton Lawn Mower

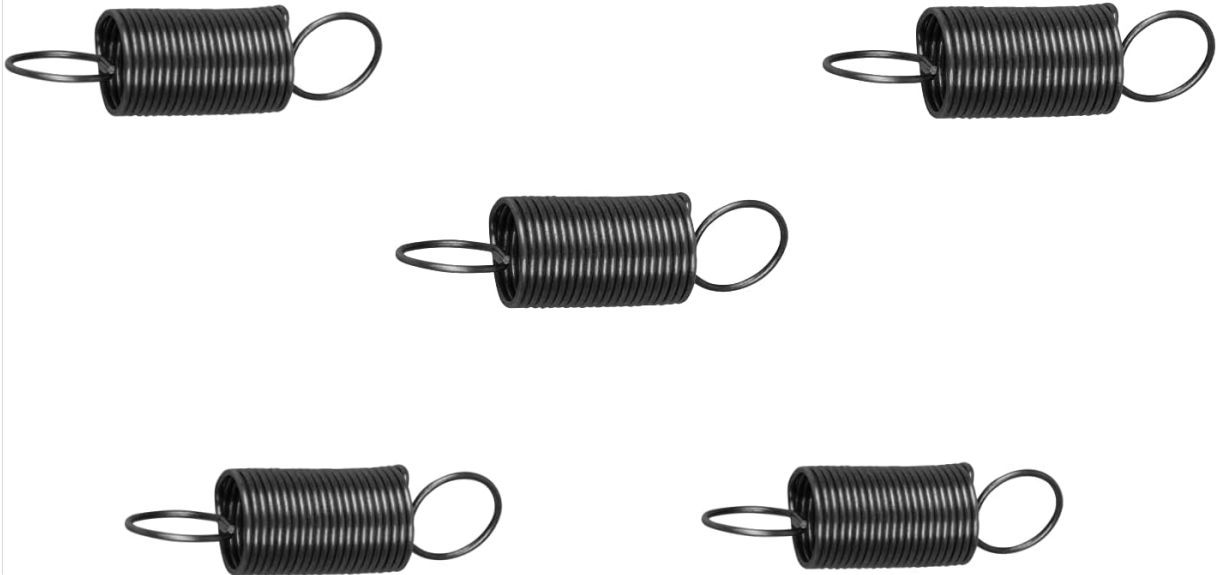


Image 3.1: The springs are designed as a direct replacement for part #790849.

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Video 3.1: A general demonstration of spring measurement and handling, which can be relevant for installation. Note: This video's title refers to part number 699056, but the principles shown are broadly applicable.

### 4. OPERATING CONSIDERATIONS

Once the new air vane choke spring is installed, the engine's auto-choke system should function correctly. When starting a cold engine, the choke should engage automatically, providing a richer fuel mixture for easier ignition. As the engine warms up, the choke should gradually disengage.

If the engine experiences difficulty starting, runs rough when cold, or stalls frequently, verify that the spring is correctly installed and providing the appropriate tension. An improperly installed or stretched spring can affect engine performance.

### 5. MAINTENANCE

The air vane choke spring itself requires minimal maintenance. However, regular inspection of the spring and surrounding carburetor linkage is recommended as part of your routine lawn mower maintenance schedule.

- **Visual Inspection:** Periodically check the spring for signs of wear, stretching, corrosion, or damage.
- **Cleanliness:** Ensure the area around the air vane and choke linkage is free from dirt, debris, or grass clippings that could impede movement.
- **Replacement:** If the spring appears damaged or no longer provides adequate tension, replace it with a

new CLSR2U air vane choke spring.

## 6. TROUBLESHOOTING

- **Engine Hard to Start (Cold):**

- Check if the spring is properly attached and providing tension to the air vane.
- Ensure the air vane moves freely and is not obstructed.
- Verify the spring is not stretched or damaged.

- **Engine Runs Rich or Smokes (Cold):**

- The choke might not be disengaging properly. Check if the spring is too stiff or if the air vane linkage is binding.

- **Engine Stalls After Starting:**

- Could indicate the choke is disengaging too quickly or not providing enough enrichment. Re-check spring tension and linkage.

If issues persist after checking the spring, consult your lawn mower's service manual or a qualified technician for further diagnosis.

## 7. SPECIFICATIONS

Attribute	Detail
Brand	CLSR2U
Model Number	00009890516
Replaces Part #	790849
Package Quantity	5 pieces
Item Weight	0.634 ounces
Package Dimensions	4.49 x 3.5 x 0.28 inches

## 8. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your CLSR2U Air Vane Choke Spring, please refer to the product packaging or contact CLSR2U customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For general inquiries or to explore other CLSR2U products, visit the official CLSR2U store on Amazon: [CLSR2U Store](#).