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› Briggs & Stratton OEM 280370 Choke Valve Instruction Manual

## Briggs & Stratton 280370

# Briggs & Stratton OEM 280370 Choke Valve Instruction Manual

## INTRODUCTION

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This instruction manual provides essential information for the proper installation, operation, and maintenance of the Briggs & Stratton OEM 280370 Choke Valve. Adhering to these guidelines will ensure optimal performance and longevity of your engine component. Please read this manual thoroughly before attempting any installation or maintenance procedures.

## PRODUCT OVERVIEW

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The Briggs & Stratton OEM 280370 Choke Valve is a genuine replacement part designed for specific Briggs & Stratton small engines. Its primary function is to regulate the air-fuel mixture entering the carburetor during engine startup, particularly in cold conditions. By restricting airflow, the choke creates a richer fuel mixture, which is crucial for easier engine ignition. Once the engine starts and warms up, the choke is typically disengaged to allow for a leaner, more efficient air-fuel mixture.



This image shows the Briggs & Stratton OEM 280370 Choke Valve. It is a small, black plastic component designed to regulate airflow in a carburetor for engine starting.

## COMPATIBILITY

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The 280370 Choke Valve is compatible with a range of Briggs & Stratton engine models. Verify your engine's model number against the following list to ensure proper fitment. This part is compatible with, but not limited to, the following engine models:

- 090902-3309-99
- 092502-3101-01, 092502-3101-02, 092502-3101-03, 092502-3101-04
- 092502-3102-01, 092502-3102-02, 092502-3102-03, 092502-3102-04, 092502-3102-05
- And many other compatible 092502 series engines.

Always consult your engine's specific parts diagram or contact Briggs & Stratton customer support for definitive compatibility confirmation.

## SAFETY INFORMATION

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Always prioritize safety when working with engine components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Disconnect the Spark Plug:** Before performing any service or maintenance, always disconnect the spark plug wire to prevent accidental engine startup.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation when working with fuel or engine components.
- **Allow Engine to Cool:** Never work on a hot engine. Allow sufficient time for the engine to cool down before beginning any work.
- **Use Correct Tools:** Employ the proper tools for each task to avoid damaging parts or causing injury.

## INSTALLATION INSTRUCTIONS

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Follow these steps for the correct installation of the 280370 Choke Valve. These are general instructions; specific engine configurations may vary.

1. **Preparation:** Ensure the engine is off and cool. Disconnect the spark plug wire to prevent accidental starting.
2. **Access the Carburetor:** Depending on your engine model, you may need to remove air filter housing, shrouds, or other components to gain access to the carburetor and the existing choke valve.
3. **Identify the Choke Valve:** Locate the choke valve assembly, typically connected to the carburetor and a choke lever or linkage.
4. **Remove Old Valve:** Carefully disconnect any linkages or springs attached to the old choke valve. Remove any retaining clips, screws, or fasteners holding the valve in place. Note the orientation of the old valve for correct installation of the new one.
5. **Install New Valve:** Position the new Briggs & Stratton OEM 280370 Choke Valve in the same orientation as the old one. Secure it with the appropriate fasteners, clips, or screws.
6. **Reconnect Linkages:** Reattach any choke linkages or springs to the new valve, ensuring they move

freely and operate the choke mechanism correctly.

- 7. **Reassemble Components:** Reinstall any air filter housing, shrouds, or other components that were removed to access the carburetor.
- 8. **Reconnect Spark Plug:** Reattach the spark plug wire.
- 9. **Test Operation:** Start the engine and test the choke operation. Ensure the choke engages and disengages smoothly and that the engine runs properly.

## OPERATION

The choke valve is an integral part of the engine starting procedure, especially when the engine is cold. Its operation is typically controlled by a lever or knob on the engine or equipment.

- **Cold Start:** To start a cold engine, move the choke lever to the 'CHOKE' or 'CLOSED' position. This restricts airflow, creating a rich fuel mixture necessary for ignition.
- **Engine Warm-up:** Once the engine starts and runs for a few seconds, gradually move the choke lever to the 'RUN' or 'OPEN' position. This allows more air into the carburetor, leaning the fuel mixture for normal operation.
- **Warm Engine Start:** If the engine is already warm, the choke may not be necessary. Attempt to start the engine in the 'RUN' position first.

Refer to your specific engine or equipment owner's manual for detailed starting procedures.

## MAINTENANCE

Regular inspection and maintenance of the choke valve can prevent operational issues.

- **Visual Inspection:** Periodically inspect the choke valve for signs of wear, cracks, or damage. Ensure the valve plate moves freely without sticking.
- **Cleanliness:** Keep the area around the choke valve and carburetor clean. Dirt and debris can impede the valve's movement.
- **Linkage Check:** Verify that all choke linkages and springs are securely attached and are not bent or corroded. Lubricate pivot points if necessary with a light oil, ensuring not to get lubricant into the carburetor.
- **Replacement:** If the choke valve shows significant wear, damage, or is not functioning correctly, replace it with a genuine Briggs & Stratton OEM 280370 part.

## TROUBLESHOOTING

If you experience issues related to engine starting or running, the choke valve may be a contributing factor. Here are some common problems and potential solutions:

| Symptom                               | Possible Cause                                                 | Solution                                                                          |
|---------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Engine hard to start when cold        | Choke not fully closing; choke linkage bent or disconnected.   | Inspect choke valve and linkage. Adjust or replace as needed.                     |
| Engine runs rough or stalls when warm | Choke not fully opening; choke valve stuck in closed position. | Inspect choke valve and linkage. Ensure free movement. Clean or replace if stuck. |

| Symptom                                 | Possible Cause                               | Solution                                             |
|-----------------------------------------|----------------------------------------------|------------------------------------------------------|
| Choke lever feels loose or unresponsive | Damaged or disconnected choke linkage/cable. | Inspect and reattach or replace choke linkage/cable. |

If troubleshooting does not resolve the issue, consult a qualified service technician.

## SPECIFICATIONS

Key specifications for the Briggs & Stratton OEM 280370 Choke Valve:

- **Part Number:** 280370
- **Brand:** Briggs & Stratton
- **Material:** Plastic
- **Item Dimensions (L x W x H):** Approximately 0.39 x 0.39 x 0.39 inches
- **Item Weight:** Approximately 0.02 Kilograms
- **Manufacturer:** Briggs & Stratton

## WARRANTY INFORMATION

Briggs & Stratton OEM parts are manufactured to high standards and typically come with a limited warranty against defects in material and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase. For detailed warranty information, refer to the official Briggs & Stratton website or contact their customer service directly.

## CUSTOMER SUPPORT

For further assistance, technical support, or to locate authorized service centers, please contact Briggs & Stratton customer service or visit their official website.

**Briggs & Stratton Official Store:** [Visit the Briggs & Stratton Store on Amazon](#)

When contacting support, please have your engine model number and the part number (280370) readily available.