

**Owifit 792060, 792534, 592224, 502556, 6912-b, 698620, 795873, 808891, 699475, 698944, 793371, 792554, 795366**

# Owifit Carburetor Instruction Manual

For 13.5hp-21hp Briggs & Stratton Engines

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your new Owifit Carburetor. This carburetor is designed as an aftermarket replacement part for various Briggs & Stratton engines ranging from 13.5hp to 21hp. Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

## 2. PRODUCT OVERVIEW

The Owifit Carburetor is a critical component for your engine's fuel system, responsible for mixing air and fuel in the correct ratio for combustion. This replacement unit is manufactured to meet or exceed original equipment specifications, ensuring reliable performance.



Figure 1: Owigift Carburetor with fuel line, clamps, and gasket.

The package includes the carburetor unit, a fuel line, two clamps, and a gasket, providing essential components for a complete replacement.



Figure 2: Owigift Carburetor showing various angles and included small parts like adjustment screws and additional clamps.

### 3. COMPATIBILITY

This Owigift Carburetor is an aftermarket replacement for various Nikki and Briggs & Stratton carburetor models. It is specifically designed for Briggs & Stratton engines ranging from 13.5hp to 21hp.

**Replaces the following part numbers:**

- Nikki 792060, G02705, 602705, 5X12C
- Nikki 792534, G02803, 592224, 502556, 6912-b
- Nikki 698620, 697203, 799727, 795873, 808891
- Nikki 699475, 698944, 602521, 5Y02 A
- Nikki 793371, G02533, 35014B, 792554, G02803, 7115
- Nikki 795366, G02708

**Known compatible engine and equipment models include:**

- Craftsman Lawn Tractors (e.g., LT2000 with Nikki 792036)
- Poulan Mowers (e.g., w.17.5 power built Briggs model # PO17542LT, Poulan Pro 20HP 42 inch riding mower with Nikki 792036)
- Briggs & Stratton engines (e.g., 331877 1371B1, 31P977 -0-635-e1, 21hp engine, 31H777-0297-E1, 219807 0389 b4, 19.5hp with Nikki 792036, 12.5hp 344cc Engine)

*Note:* If you are unsure about compatibility, please refer to your engine's service manual or contact customer support with your engine's model and serial number.

## 4. SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow these safety guidelines may result in injury or damage to equipment.

- **Disconnect Battery:** Before starting any work, disconnect the spark plug wire and the battery to prevent accidental engine startup.
- **Fuel Handling:** Gasoline is highly flammable. Work in a well-ventilated area, away from open flames or sparks. Do not smoke.
- **Eye Protection:** Always wear safety glasses to protect your eyes from debris or fuel splashes.
- **Gloves:** Wear appropriate gloves to protect your hands from fuel, oil, and sharp edges.
- **Engine Cooling:** Allow the engine to cool completely before working on it to avoid burns.
- **Proper Tools:** Use the correct tools for each task to prevent damage to fasteners and components.

## 5. SETUP AND INSTALLATION

This section outlines the general steps for replacing your carburetor. Specific procedures may vary slightly depending on your engine model. Refer to your engine's service manual for detailed instructions.

1. **Preparation:** Ensure the engine is cool. Disconnect the spark plug wire and the battery. Place a drip pan under the carburetor area to catch any spilled fuel.
2. **Remove Air Filter Assembly:** Carefully remove the air filter housing and air filter.
3. **Disconnect Fuel Line:** Locate the fuel line connected to the carburetor. Use pliers to loosen the clamp and disconnect the fuel line. Plug the fuel line to prevent fuel leakage.
4. **Disconnect Linkages:** Disconnect the throttle and choke linkages from the old carburetor. Note their positions for reinstallation. Taking a photo can be helpful.
5. **Remove Mounting Bolts:** Unscrew the bolts or nuts that secure the carburetor to the engine manifold.
6. **Remove Old Carburetor:** Carefully remove the old carburetor and any old gaskets. Clean the mounting surface on the engine manifold.
7. **Install New Gasket:** Place the new gasket (included) onto the engine manifold, ensuring it aligns correctly with the mounting holes and passages.
8. **Install New Carburetor:** Position the new Owigift Carburetor onto the gasket and secure it with the mounting bolts/nuts. Tighten them evenly to the manufacturer's specifications (refer to your engine manual).
9. **Reconnect Linkages:** Reattach the throttle and choke linkages to the new carburetor in their original positions. Ensure they move freely.
10. **Reconnect Fuel Line:** Connect the new fuel line (if replacing) or the old fuel line to the carburetor's fuel inlet. Secure it with a new clamp (included).
11. **Reinstall Air Filter Assembly:** Reattach the air filter housing and air filter.

12. **Final Checks:** Double-check all connections, ensuring they are secure. Reconnect the spark plug wire and battery.

## 6. OPERATING INSTRUCTIONS

After installation, the engine should be ready for operation. The carburetor is pre-set for optimal performance, but minor adjustments may be necessary for specific engine conditions.

1. **Fuel Supply:** Ensure there is fresh, clean fuel in the tank.
2. **Choke:** For cold starts, engage the choke as per your engine's starting procedure.
3. **Start Engine:** Follow your engine manufacturer's starting instructions.
4. **Warm-up:** Allow the engine to warm up for a few minutes before operating under load.
5. **Idle Adjustment (if necessary):** If the engine idles too high or too low, locate the idle speed screw on the carburetor and adjust it incrementally until a smooth idle is achieved.
6. **Mixture Adjustment (if necessary):** If the engine runs rough or lacks power, a minor fuel mixture adjustment might be needed. This is typically done with a mixture screw. Consult your engine's service manual for the correct procedure and settings, as improper adjustment can damage the engine.

## 7. MAINTENANCE

Regular maintenance of your carburetor and fuel system will ensure long-lasting performance.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a common cause of carburetor issues. Consider using a fuel stabilizer if the equipment will be stored for extended periods.
- **Fuel Filter:** Regularly inspect and replace the fuel filter as recommended by your engine manufacturer. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Air Filter:** Keep the air filter clean and replace it when dirty. A dirty air filter restricts airflow, leading to a rich fuel mixture and poor engine performance.
- **Carburetor Cleaning:** If the carburetor becomes clogged due to fuel deposits, it may require cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This procedure should only be performed by individuals with mechanical experience.

## 8. TROUBLESHOOTING

If you encounter issues after installing the new carburetor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, incorrect choke setting, spark plug issue, carburetor not primed.	Check fuel level, replace fuel filter, adjust choke, check spark plug, ensure fuel reaches carburetor.
Engine runs rough/stalls	Dirty air filter, clogged fuel passages in carburetor, incorrect idle/mixture adjustment, old fuel.	Clean/replace air filter, clean carburetor, adjust idle/mixture, use fresh fuel.

Problem	Possible Cause	Solution
Engine lacks power	Dirty air filter, restricted fuel flow, incorrect mixture setting.	Clean/replace air filter, check fuel filter/lines, adjust fuel mixture.
Fuel leaks from carburetor	Loose connections, damaged gasket, float needle issue.	Tighten connections, replace gasket, inspect float and needle valve.

If these steps do not resolve the issue, it is recommended to consult a qualified service technician.

## 9. SPECIFICATIONS

- **Brand:** Owigift
- **Vehicle Service Type:** Tractor
- **Compatible Engine Horsepower:** 13.5hp - 21hp
- **Compatible Engine Brand:** Briggs & Stratton
- **Replaces Part Numbers:** Nikki 792060, 792534, 592224, 502556, 6912-b, 698620, 795873, 808891, 699475, 698944, 793371, 792554, 795366 (and others listed in Compatibility section)
- **UPC/GTIN:** 017015817691

## 10. SUPPORT

For further assistance, compatibility questions, or troubleshooting advice, please contact Owigift customer support. We aim to resolve your inquiries within 24 hours.

*Contact information is typically provided with your purchase or on the manufacturer's website.*