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› Pro Chaser 214661 Carburetor Instruction Manual for Briggs & Stratton 5.5hp Engines

Pro Chaser 214661

Pro Chaser 214661 Carburetor Instruction Manual

Replacement Carburetor for Briggs & Stratton 5.5hp Engines (Models 795533, 494217, 214370, 693864, 123k02-0240-E1, 123882, 123887, 124702)

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Pro Chaser 214661 Carburetor. This carburetor is designed as a direct replacement for specific Briggs & Stratton 5.5hp engine models. Please read this manual thoroughly before attempting any installation or maintenance procedures to ensure proper function and safety.

2. PRODUCT OVERVIEW AND COMPATIBILITY

The Pro Chaser 214661 Carburetor is a replacement part intended for use with various Briggs & Stratton 5.5hp engines. It is compatible with Briggs & Stratton part numbers 795533, 494217, 214370, and 693864, and engine models including 123k02-0240-E1, 123882, 123887, and 124702.

2.1. Included Components

The package typically includes the following items:

- 1 x Carburetor
- 1 x Fuel Hose
- Clamps
- Gaskets
- Additional accessories as pictured (e.g., spark plug, fuel filter, primer bulb, air filter elements)



Figure 1: Pro Chaser 214661 Carburetor and accompanying components, including gaskets, fuel hose, spark plug, fuel filter, and air filter elements.

3. SAFETY INFORMATION

Always prioritize safety when working with internal combustion engines and fuel systems. Failure to follow these safety guidelines can result in serious injury or property damage.

- **Disconnect Spark Plug:** Before beginning any work, disconnect the spark plug wire to prevent accidental engine starting.
- **Work in a Well-Ventilated Area:** Fuel vapors are flammable and hazardous. Ensure adequate ventilation.
- **No Open Flames:** Keep all ignition sources, including sparks, open flames, and smoking materials, away from the work area.
- **Wear Protective Gear:** Use safety glasses, gloves, and appropriate clothing to protect against fuel, oil, and sharp edges.
- **Handle Fuel Carefully:** Drain fuel into an approved container. Clean up any spills immediately.

- **Engine Cool Down:** Allow the engine to cool completely before working on it to avoid burns.

4. SETUP AND INSTALLATION

Replacing a carburetor requires mechanical aptitude. If you are unsure about any step, it is recommended to consult a qualified small engine technician.

4.1. Preparation

1. Ensure the engine is cool and the spark plug wire is disconnected.
2. Turn off the fuel supply and drain the fuel tank into an approved container.
3. Take clear photos of the existing carburetor and its connections (fuel lines, linkages, wires) for reference during reassembly.

4.2. Removal of Old Carburetor

1. Remove the air filter housing and air filter elements.
2. Carefully disconnect the fuel line from the carburetor.
3. Disconnect any throttle and choke linkages or springs attached to the carburetor. Note their positions.
4. Unbolt the carburetor from the engine intake manifold. Be mindful of any gaskets between the carburetor and the engine.
5. Remove the old carburetor and any old gaskets.



Figure 2: View of the carburetor intake, showing the opening where it connects to the engine manifold.

4.3. Installation of New Carburetor

1. Ensure mating surfaces on the engine and air filter housing are clean and free of old gasket material.
2. Install new gaskets provided with the Pro Chaser carburetor. Proper gasket placement is crucial for a good seal.
3. Mount the new carburetor onto the engine intake manifold, aligning it with the bolt holes.
4. Secure the carburetor with the original bolts, tightening them evenly to prevent warping.
5. Reconnect the throttle and choke linkages and springs, referring to your earlier photos if necessary.
6. Connect the new fuel hose (if replacing) to the carburetor and fuel tank, securing with clamps.
7. Install the new air filter elements and air filter housing.
8. Reconnect the spark plug wire.

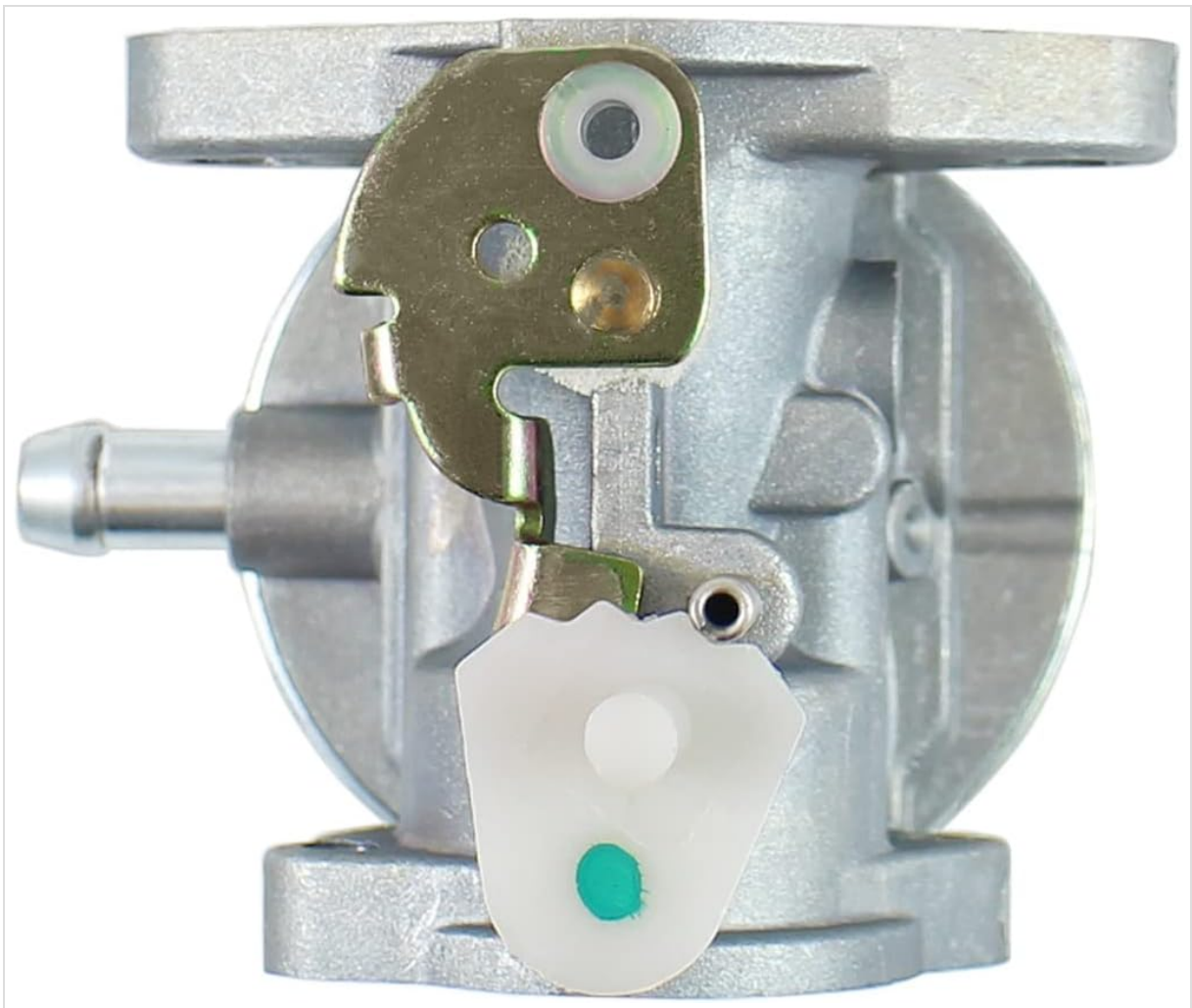


Figure 3: Close-up of the carburetor's choke mechanism, which controls airflow during engine starting.

5. OPERATING THE ENGINE AFTER CARBURETOR REPLACEMENT

After successful installation, follow these steps to start and operate your engine:

1. Refill the fuel tank with fresh, clean fuel appropriate for your engine.
2. Open the fuel shut-off valve (if equipped).
3. Prime the carburetor by pressing the primer bulb several times until fuel is visible in the bulb or fuel lines.
4. Set the choke to the "CHOKE" position (if applicable).
5. Set the throttle to the "FAST" or "START" position.
6. Start the engine according to your equipment's manufacturer instructions (e.g., pull starter cord or turn ignition key).
7. Once the engine starts, gradually move the choke to the "RUN" position as the engine warms up.

Allow the engine to run for a few minutes to ensure proper fuel flow and carburetor adjustment. If the engine runs rough or stalls, refer to the Troubleshooting section.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your carburetor and engine.

- **Fuel Quality:** Always use fresh, clean, and stabilized fuel. Stale or contaminated fuel is a primary cause of carburetor issues.

- **Fuel Filter:** Inspect and replace the fuel filter periodically, or if it appears clogged.
- **Air Filter:** Clean or replace the air filter elements regularly to ensure proper air-fuel mixture and prevent debris from entering the carburetor.
- **Storage:** Before long-term storage, run the engine until it runs out of fuel, or drain the fuel system to prevent fuel degradation and gumming in the carburetor.

7. TROUBLESHOOTING

If your engine experiences issues after carburetor replacement, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, incorrect choke setting, spark plug issue, improper carburetor installation.	Check fuel level, replace fuel filter, adjust choke, inspect/replace spark plug, re-check all carburetor connections and gaskets.
Engine runs rough or stalls	Air leak (bad gasket), fuel restriction, incorrect idle adjustment, choke not fully open.	Inspect gaskets for leaks, check fuel lines/filter, adjust idle screw (if available), ensure choke is fully disengaged.
Fuel leaks from carburetor	Loose connections, damaged fuel line, faulty float needle, incorrect float level.	Tighten connections, replace damaged fuel line, inspect float and needle valve for proper seating.
Choke mechanism not functioning correctly	Linkage issues, incompatible choke design.	Verify all choke linkages are correctly connected and move freely. Some applications may require adapting the choke actuation method from the original carburetor if the new one has a different design (e.g., handle vs. throttle-set choke).

If problems persist, it is advisable to seek assistance from a professional small engine repair service.

8. SPECIFICATIONS

Key specifications for the Pro Chaser 214661 Carburetor:

- **Brand:** Pro Chaser
- **Model Number:** 214661
- **Manufacturer Item Model Number:** PC210869
- **Manufacturer Model:** PC210868
- **UPC:** 780861313531
- **Recommended Uses:** Lawn Tractor (Briggs & Stratton 5.5hp engines)
- **Exterior Finish:** Machined

8.1. Dimensions



Figure 4: Front view with key dimensions, including bore diameter and mounting hole spacing.



Figure 5: Side view with mounting hole spacing dimension.

9. WARRANTY AND SUPPORT

For any questions regarding the Pro Chaser 214661 Carburetor, including compatibility, installation, or troubleshooting, please contact Pro Chaser customer support. While specific warranty details are not provided in this manual, standard consumer rights and return policies apply. Refer to your purchase documentation for details on returns or exchanges.

It is recommended to verify compatibility with your specific engine model before purchase. A minor difference in carburetor design may result in a different model. If you are unsure, provide clear pictures of your current carburetor to customer support for assistance in finding the correct match.