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Briggs & Stratton 21R807-0072-G1

Briggs & Stratton 11.5 HP Intek Engine User Manual

Model: 21R807-0072-G1

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Briggs & Stratton 11.5 HP Intek Engine, model 21R807-0072-G1. This genuine 344cc engine is designed for reliable power and extended life.

Please read this manual thoroughly before operating or servicing the engine to ensure proper use and to prevent injury or damage.

Safety Information

Operating internal combustion engines can be hazardous. Always follow safety precautions to minimize risks.

- **Carbon Monoxide Hazard:** Engines emit carbon monoxide, an odorless, colorless, poisonous gas. Operate engines only in well-ventilated areas. Never operate indoors.
- **Hot Surfaces:** Engine components, especially the muffler, become extremely hot during operation and remain hot for a period after shutdown. Avoid contact to prevent burns.
- **Fuel Safety:** Gasoline is highly flammable. Store fuel in approved containers. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near fuel.
- **Moving Parts:** Keep hands, feet, and clothing away from moving parts such as the flywheel and fan.
- **Eye Protection:** Always wear appropriate eye protection when working on or around the engine.
- **Read All Warnings:** Pay close attention to all warning labels on the engine and in this manual.



Image: Top-down view of the Briggs & Stratton 11.5 HP Intek Engine, highlighting the warning labels on the engine shroud.

Setup and Installation

Proper installation is crucial for engine performance and longevity.

Unpacking and Inspection

Carefully remove the engine from its packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.



Image: The Briggs & Stratton engine as received in its branded shipping box.

Adding Engine Oil

The engine is shipped **without oil**. It is essential to add the correct type and amount of oil before the first start. Refer to the oil capacity in the Specifications section. Typically, 40-44 oz of oil is required. Fill to the "FULL" mark on the dipstick. Do not overfill.

Fuel System Connection

Connect the fuel line from your equipment's fuel tank to the engine's carburetor. Ensure all connections are secure and free of leaks. This engine features a float carburetor for consistent starting.

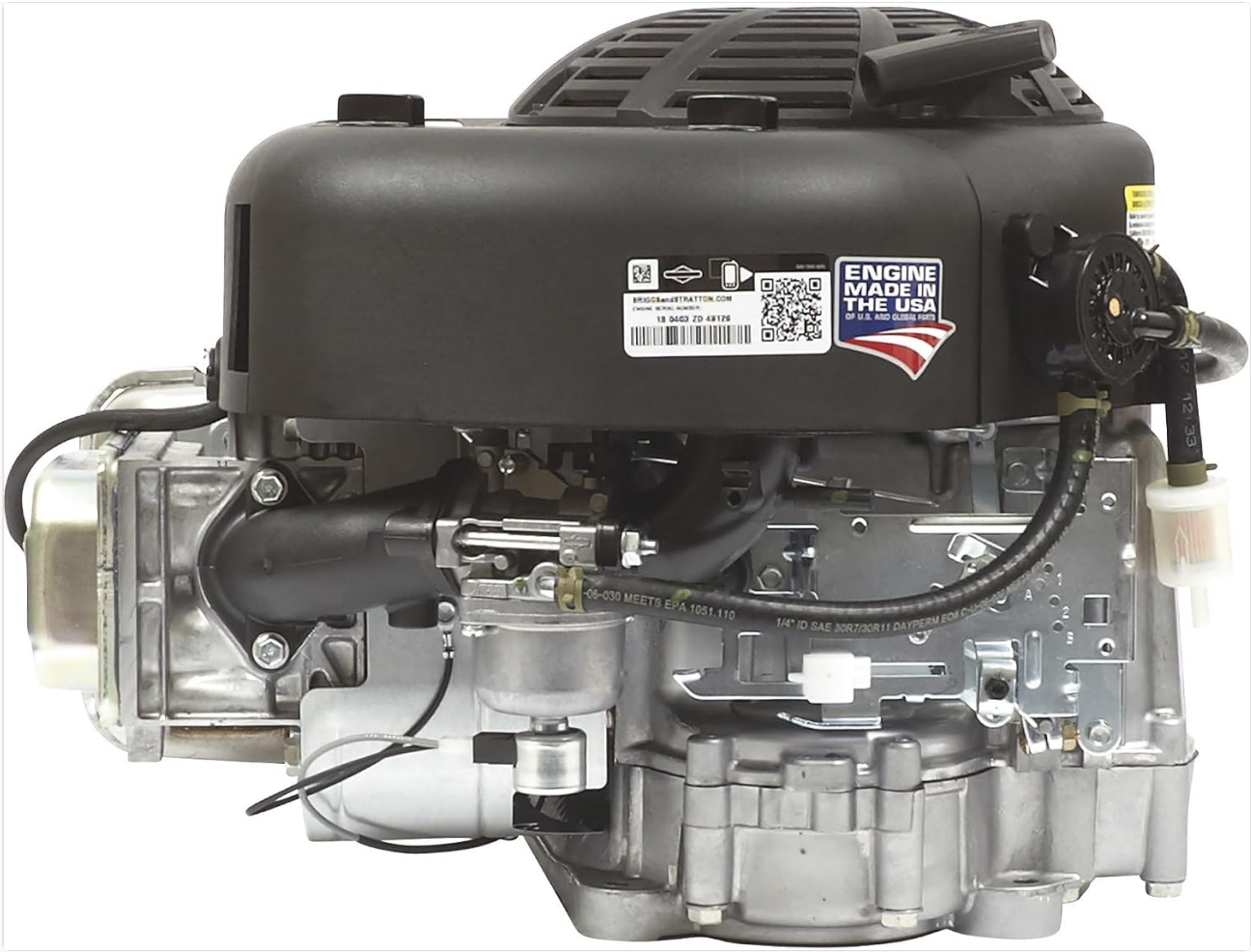

Image: Side view of the engine, illustrating the carburetor and fuel line connection point.

Electrical Wiring

Connect the engine's electrical harness to your equipment's wiring system. This engine may include a carburetor solenoid that requires a 12V DC connection. Consult your equipment's wiring diagram for proper connections. If replacing an older engine, modifications to the equipment's wiring harness may be necessary to accommodate new features like the carburetor solenoid.

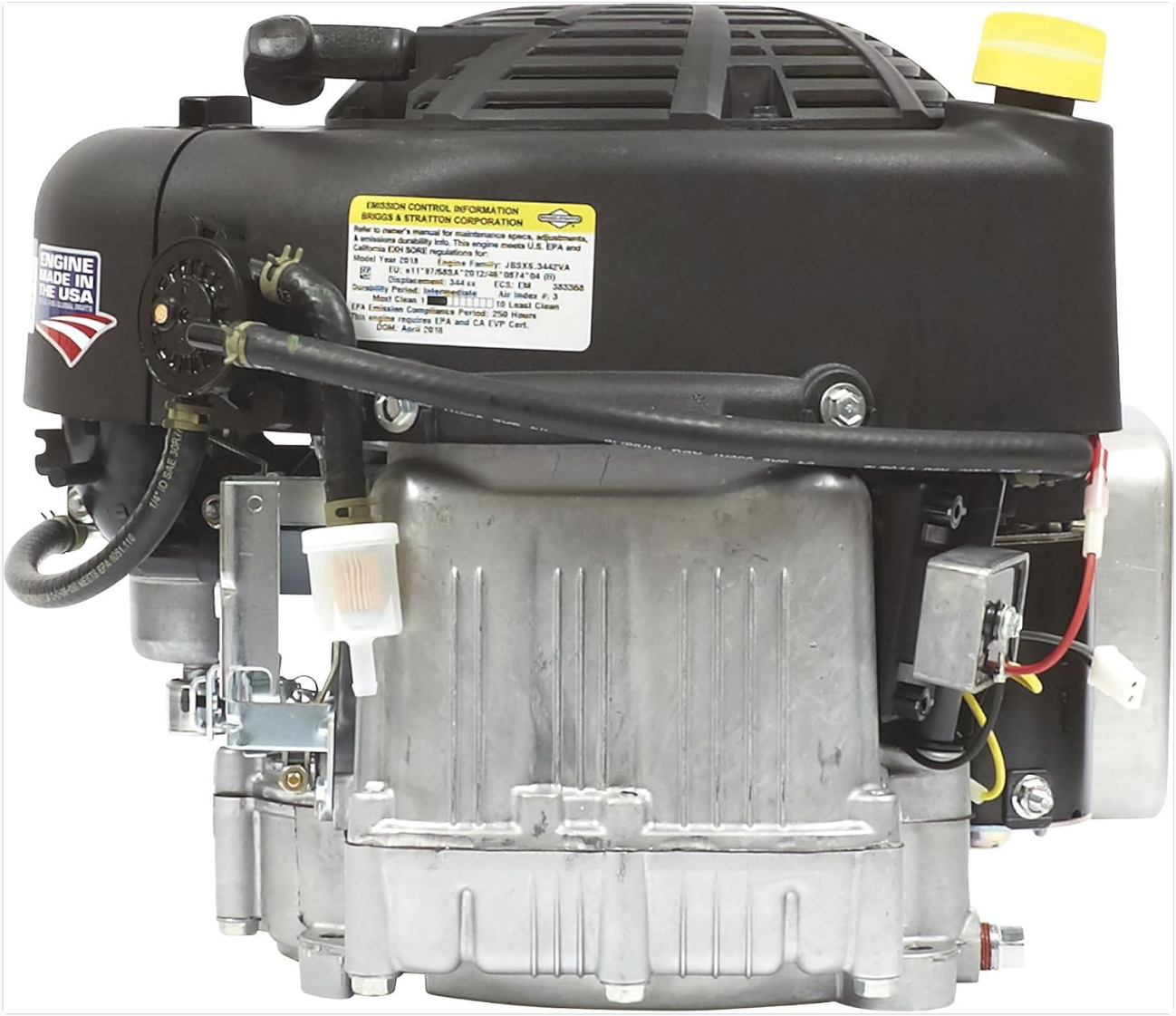

Image: Side view of the engine, detailing the electrical wiring connections and the emission control information label.

Operating Instructions

Pre-Start Checklist

- Check engine oil level.
- Ensure fuel tank is adequately filled with fresh, clean gasoline.
- Verify air filter is clean and properly installed.
- Confirm all connections (fuel, electrical, mounting) are secure.

Starting the Engine

1. Ensure the equipment is in neutral or disengaged.
2. Set the choke to the "FULL" position if the engine is cold.
3. Set the throttle to the "FAST" position.
4. Turn the ignition key to the "START" position or pull the recoil starter firmly until the engine starts.
5. Once the engine starts, gradually move the choke to the "OFF" position as the engine warms up.

Stopping the Engine

To stop the engine, reduce the throttle to the "SLOW" or "IDLE" position, then turn the ignition key to "OFF" or

move the engine stop switch to "OFF".

Maintenance

Regular maintenance ensures optimal performance and extends engine life.

Oil Change

Change the engine oil after the first 5 hours of operation. Subsequently, change the oil every 50 hours or at least once a year, whichever comes first. Refer to the Specifications section for recommended oil type.

Air Filter Maintenance

The Dual-Clean air cleaner, with its pleated paper filter and foam pre-cleaner, provides maximum protection. Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged or excessively dirty.



Image: Side view of the engine, highlighting the air filter housing on the right side.

Spark Plug

Inspect the spark plug annually or every 100 hours. Clean or replace as needed. Ensure proper gap setting.

Fuel Filter

Check and replace the in-line fuel filter as necessary to ensure clean fuel delivery to the carburetor.

Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Stale fuel; Incorrect choke setting; Fouled spark plug; Low oil level.	Add fresh fuel; Adjust choke; Clean/replace spark plug; Fill oil to proper level.
Engine runs rough	Dirty air filter; Stale fuel; Carburetor issues; Incorrect spark plug gap.	Clean/replace air filter; Drain and refill with fresh fuel; Consult service manual for carburetor; Adjust spark plug gap.
Engine lacks power	Dirty air filter; Overloaded; Carburetor adjustment needed.	Clean/replace air filter; Reduce load; Consult service manual for carburetor adjustment.
Wiring issues after replacement	Carburetor solenoid not receiving power; Incorrect connections.	Verify 12V DC supply to carburetor solenoid in RUN/START positions. Refer to engine and equipment wiring diagrams. Adapt harness if necessary.

For complex issues, it is recommended to consult a certified Briggs & Stratton service technician.

Specifications

Model: 21R807-0072-G1

Engine Type: Intek Series, Single Cylinder, 4-Stroke, OHV (Overhead Valve)

Displacement: 344cc

Gross Horsepower: 11.5 HP

Air Cleaner: Dual-Clean pleated paper filter with foam pre-cleaner

Cylinder Sleeve: Dura-Bore cast iron

Carburetor: Float type

Dimensions (L x W x H): 23.75 x 21.5 x 21.5 inches

Weight: 70.9 pounds

Country of Origin: USA



Image: Side view of the Briggs & Stratton engine, clearly showing the OHV (Overhead Valve) cover.

Warranty and Support

Warranty Information

This Briggs & Stratton Intek Series engine is covered by Briggs & Stratton's two-year limited consumer warranty. This warranty covers defects in material and workmanship under normal use and service.

For full warranty terms and conditions, please refer to the official Briggs & Stratton warranty statement provided with your engine or visit the official Briggs & Stratton website.

Customer Support

For technical assistance, parts, or service, please contact Briggs & Stratton customer support directly. Have your engine model and serial numbers ready when contacting support.

Note: If you purchased this engine as a replacement part, direct technical support from the original seller may be limited. It is recommended to contact Briggs & Stratton directly for engine-specific technical inquiries.

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