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Briggs & Stratton 44S977-0032-G1

Briggs & Stratton 44S977-0032-G1 25 GHP Vertical Shaft Engine User Manual

Model: 44S977-0032-G1

Introduction

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Briggs & Stratton 44S977-0032-G1 25 GHP Vertical Shaft Engine. Please read this manual thoroughly before attempting to install, operate, or service the engine to ensure proper function and to prevent personal injury or equipment damage. Keep this manual for future reference.

1. Setup and Installation

1.1 Unpacking and Inspection

Carefully remove the engine from its packaging. Inspect for any signs of shipping damage. Report any damage to your dealer immediately. Ensure all components listed in the packing list are present.

1.2 Mounting the Engine

Mount the engine securely to the equipment frame using appropriate hardware. Refer to the equipment manufacturer's manual for specific mounting instructions and torque specifications. Ensure proper alignment of the vertical shaft with the driven component.

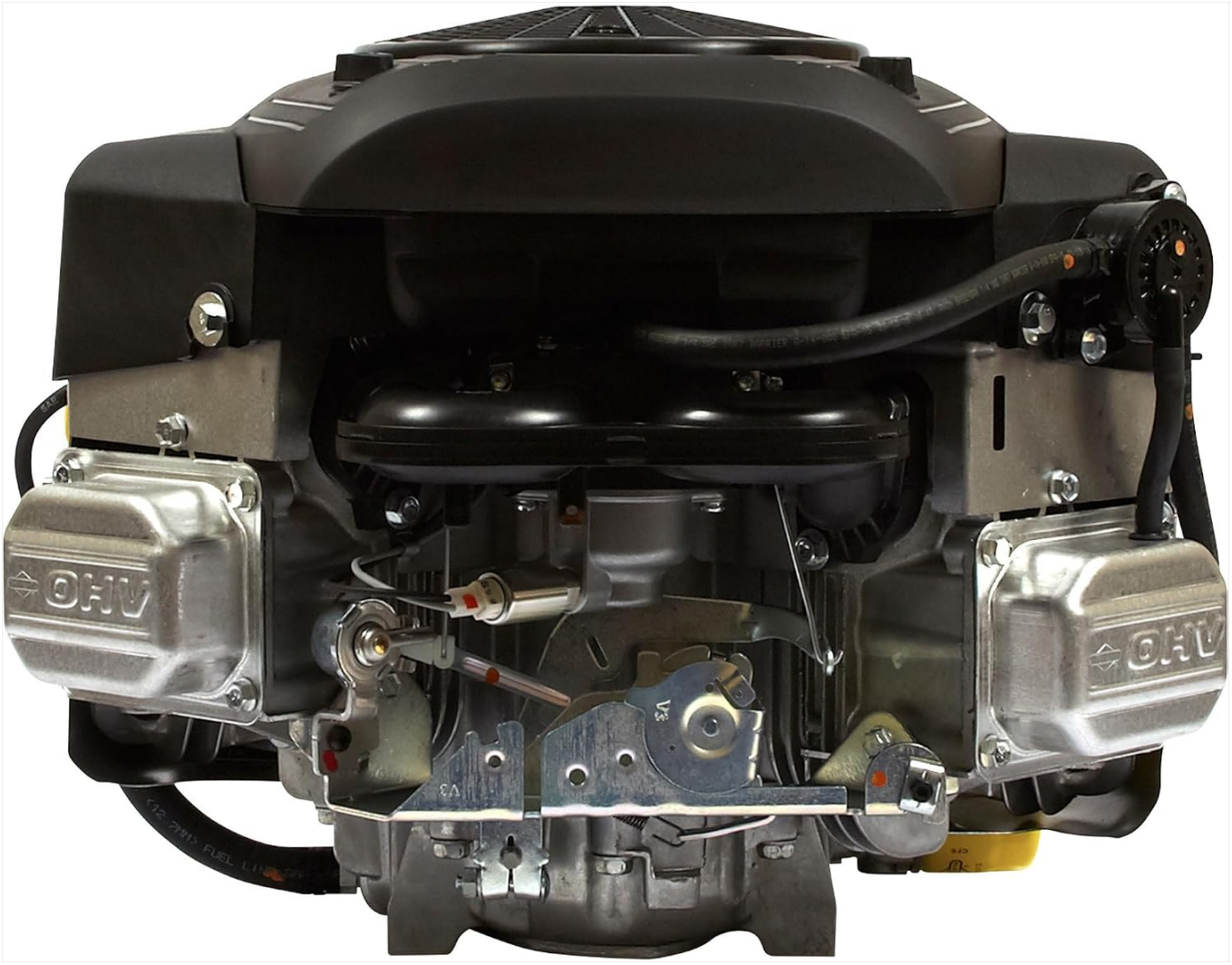


Figure 1: Side view of the engine, highlighting the mounting base and connection points for installation onto equipment.

1.3 Initial Fluid Checks

- **Engine Oil:** Before starting, fill the engine with the recommended type and amount of oil. Refer to the 'Maintenance' section for oil specifications. Do not overfill.
- **Fuel:** Fill the fuel tank with fresh, clean, unleaded gasoline. Do not use E85 fuel. Ensure the fuel cap is securely tightened.

1.4 Electrical Connections

Connect the battery cables and other electrical components according to the equipment manufacturer's wiring diagram. Ensure all connections are clean and secure. Incorrect wiring can cause damage to the engine's electrical system.

2. Operating Instructions

2.1 Safety Precautions

- Always operate the engine in a well-ventilated area to avoid carbon monoxide poisoning.
- Keep hands, feet, and clothing away from moving parts.
- Do not refuel a hot or running engine. Allow the engine to cool before adding fuel.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and hearing protection.

2.2 Starting the Engine

1. Ensure the fuel valve is open (if equipped).

2. Set the throttle to the "FAST" position.
3. If equipped with a choke, engage the choke for cold starts.
4. Turn the ignition key to the "START" position. Release the key once the engine starts.
5. Gradually disengage the choke as the engine warms up.

2.3 Stopping the Engine

1. Move the throttle to the "SLOW" or "IDLE" position.
2. Turn the ignition key to the "OFF" position.
3. If the engine will be stored for an extended period, turn off the fuel valve (if equipped).

3. Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your engine. Always refer to the maintenance schedule provided in this manual or on the engine itself.

3.1 Checking Engine Oil

Check the engine oil level before each use. Ensure the engine is level and cool. Remove the dipstick, wipe it clean, reinsert it fully, then remove again to check the level. Add oil if necessary, but do not overfill.



Figure 2: Location of the yellow oil fill cap and dipstick for checking engine oil levels.

3.2 Changing Engine Oil and Filter

Change the engine oil and oil filter after the first 5 hours of operation, then every 50 hours or annually, whichever comes first. Use Briggs & Stratton SAE 30 oil or equivalent. Refer to the engine diagram for the oil drain plug and filter location.



Figure 3: Engine side view, indicating the spin-on oil filter (yellow) and fuel line with inline filter.

3.3 Air Filter Maintenance

Inspect the air filter every 25 hours or more frequently in dusty conditions. Clean or replace the air filter as needed. A dirty air filter can reduce engine performance and increase fuel consumption.

3.4 Spark Plug Inspection

Inspect the spark plug annually or every 100 hours. Clean or replace if necessary. Ensure the correct gap is set according to specifications.

4. Troubleshooting

Problem	Possible Cause	Solution
Engine will not start	No fuel, stale fuel, clogged fuel filter, dead battery, faulty spark plug, engaged safety switch.	Check fuel level, replace stale fuel, replace fuel filter, charge/replace battery, inspect/replace spark plug, check safety interlocks.
Engine runs poorly/lacks power	Dirty air filter, stale fuel, incorrect spark plug gap, carburetor issues, low oil level.	Clean/replace air filter, replace fuel, adjust spark plug gap, clean carburetor, check oil level.

Problem	Possible Cause	Solution
Excessive smoke from exhaust	Overfilled oil, wrong oil type, worn engine components.	Drain excess oil, use correct oil, consult authorized service center for inspection.

For issues not listed or if troubleshooting steps do not resolve the problem, contact an authorized Briggs & Stratton service dealer.

5. Specifications

Model Number: 44S977-0032-G1

Engine Type: Vertical Shaft Engine

Gross Horsepower: 25 GHP

Product Dimensions: 19 x 16 x 18 inches

Item Weight: 83.8 pounds

Cylinder Sleeve: Dura-Bore Cast Iron

Valve Design: Overhead Valve (OHV)

Lubrication: Full Pressure Lubrication with Oil Filtered PTO Bearing

Charging System: 16 Amp



Figure 4: Top view of the Briggs & Stratton 25 GHP Vertical Shaft Engine, displaying key features and branding.

6. Warranty Information

Briggs & Stratton engines are covered by a limited warranty. The specific terms and duration of the warranty may vary by region and product. Please refer to the warranty statement included with your engine packaging or visit the official Briggs & Stratton website for detailed warranty information. Keep your proof of purchase for warranty claims.

7. Customer Support

For technical assistance, parts, or service, please contact Briggs & Stratton customer support or visit their official website.

Official Website: www.briggsandstratton.com

QR Code Information: For quick access to product information, scan the QR code found on your engine or visit: http://m.briggsandstratton.com/qr/161115YG77910/00:00

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