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CRAFTSMAN BV245

CRAFTSMAN BV245 Gas Powered Leaf Blower and Vacuum Instruction Manual

Model: BV245

Brand: CRAFTSMAN

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your CRAFTSMAN BV245 Gas Powered Leaf Blower and Vacuum. Please read all instructions carefully before use to ensure proper handling and to prevent injury or damage.

Safety Warning: Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and gloves when operating this equipment. Ensure the work area is clear of bystanders and pets.

2. PRODUCT FEATURES

- **Powerful Engine:** High-performance 27cc 2-cycle gas engine with air volume and air speed up to 450 CFM/205 MPH for quick and efficient blowing.
- **Vacuum Kit Included:** Features a 1.5-bushel capacity bag for collecting leaves and debris with a 16:1 debris reduction ratio.
- **User-Friendly Design:** Lightweight design to reduce user fatigue, variable speed throttle for enhanced control, and a comfort over-mold handle to absorb and reduce vibration.
- **Easy-Start Technology:** Enables faster starts with a simple 3-step process: Prime, Choke, Pull.
- **2-Cycle Engine Oil:** Oil is included with purchase for your convenience.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- CRAFTSMAN BV245 Main Unit (Engine and Housing)
- Blower Tube
- Vacuum Tube

- Collection Bag (1.5-bushel capacity)
- 2-Cycle Engine Oil
- Operator's Manual



Image: CRAFTSMAN BV245 Leaf Blower and Vacuum components including the main unit, blower tube, vacuum tube, and collection bag.

4. SETUP

4.1 Fuel Mixing

The BV245 uses a 2-cycle engine and requires a specific fuel mixture. Mix unleaded gasoline with the provided 2-cycle engine oil according to the instructions on the oil container. Do not use straight gasoline or automotive oil, as this will damage the engine and void the warranty.

4.2 Blower Assembly

1. Attach the blower tube to the main unit's air outlet. Ensure it clicks securely into place.
2. Verify all connections are tight before operation.



Image: CRAFTSMAN BV245 Gas Powered Leaf Blower and Vacuum with blower tube attached.

4.3 Vacuum Assembly

To convert the unit to vacuum mode:

1. Remove the blower tube from the air outlet.
2. Attach the vacuum tube to the main unit's intake port. This may require a screwdriver to open a latch or release a lock, as noted by some users. Ensure a secure fit.
3. Connect the collection bag to the air outlet. Ensure the bag is properly secured to prevent debris leakage.



Image: CRAFTSMAN BV245 in vacuum mode with collection bag attached.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine (Easy Start Technology)

1. **Prime:** Press the primer bulb 3-5 times until fuel is visible in the return line.
2. **Choke:** Move the choke lever to the FULL CHOKE position.
3. **Pull:** Pull the starter rope firmly and smoothly until the engine attempts to start (usually 1-2 pulls).
4. Once the engine attempts to start, move the choke lever to the HALF CHOKE position.
5. Pull the starter rope again until the engine starts.
6. Allow the engine to warm up for a few seconds, then move the choke lever to the RUN position.



Image: Close-up of the CRAFTSMAN BV245 engine and controls, showing the primer bulb and choke lever.

5.2 Using as a Blower

Hold the unit firmly with both hands. Use the variable speed throttle to adjust airflow as needed. For general clearing, use higher speeds. For delicate areas or to avoid scattering debris too widely, use lower speeds. Walk slowly and sweep the blower tube from side to side to move leaves and debris effectively.

5.3 Using as a Vacuum

With the vacuum tube and collection bag attached, hold the unit so the vacuum tube is close to the ground. Move the tube over leaves and light debris. The unit will shred the material and collect it in the bag. Empty the collection bag regularly to maintain optimal performance.



Image: User operating the CRAFTSMAN BV245 in vacuum mode, collecting leaves into the shoulder bag.

6. MAINTENANCE

6.1 General Cleaning

After each use, clean the exterior of the unit with a damp cloth. Remove any debris from the air intake, blower tube, and vacuum tube. Ensure the cooling fins on the engine are free of obstructions to prevent overheating.

6.2 Air Filter

Regularly inspect and clean the air filter. A dirty air filter can reduce engine performance. Refer to the detailed instructions in the full operator's manual for cleaning or replacement procedures.

6.3 Spark Plug

Check the spark plug periodically for wear and proper gap. Replace if necessary. Consult the full operator's manual for the correct spark plug type and gap specifications.

6.4 Fuel Storage

When storing the unit for extended periods, drain the fuel tank or use a fuel stabilizer to prevent fuel degradation and carburetor issues.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start or is difficult to start.	Incorrect starting procedure, no fuel, stale fuel, dirty spark plug, primer bulb issue.	Follow Easy Start procedure carefully. Ensure fresh, properly mixed fuel. Check and clean/replace spark plug. Inspect primer bulb for damage or detachment.
Loss of power during operation.	Dirty air filter, improper fuel mixture, engine overheating, primer bulb issue.	Clean air filter. Verify correct fuel-to-oil ratio. Ensure cooling fins are clear. Check primer bulb.
Vacuum function is inefficient.	Clogged vacuum tube, full collection bag, loose connections.	Clear any blockages in the vacuum tube. Empty the collection bag. Ensure vacuum tube and bag are securely attached.
Excessive vibration.	Loose components, damaged impeller.	Check all attachments and fasteners for tightness. If vibration persists, discontinue use and contact service.

For further assistance, refer to the complete troubleshooting guide in your operator's manual or contact CRAFTSMAN customer support.

8. SPECIFICATIONS

- **Brand:** CRAFTSMAN
- **Model Name:** 27cc 2-Cycle Full Crank Engine Gas (BV245)
- **Power Source:** Gas Powered
- **Engine Displacement:** 27cc
- **Engine Type:** 2-Cycle
- **Form Factor:** Handheld
- **Air Flow Capacity:** 450 Cubic Feet Per Minute (CFM)
- **Air Speed:** 205 Miles Per Hour (MPH)
- **Debris Reduction Ratio (Vacuum):** 16:1
- **Collection Bag Capacity:** 1.5 Bushels
- **Item Weight:** 10.2 Pounds
- **Product Dimensions:** 17.75" L x 15.75" W x 18" H
- **Noise Level:** 33 Decibels (Note: This value seems unusually low for a gas blower and might refer to a specific measurement condition. Always use hearing protection.)
- **Manufacturer:** MTD
- **UPC:** 084931848047

9. WARRANTY AND SUPPORT

The CRAFTSMAN BV245 Gas Powered Leaf Blower and Vacuum is backed by a **2-year limited warranty**. For warranty claims, technical support, or to purchase replacement parts, please contact CRAFTSMAN customer service. Keep your proof of purchase for warranty validation. For detailed contact information, please refer to the official CRAFTSMAN website or the contact section of your full operator's manual.

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