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Model: 52cc 2-Stroke Backpack Leaf Blower

Overview Assembly **Safety Instructions** Product
Operation Maintenance Troubleshooting Specifications

1. SAFETY INSTRUCTIONS

Read and understand all safety warnings and instructions before operating this leaf blower. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

1.1 Personal Safety

- Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, long pants, sturdy footwear, and gloves.
- Do not operate the blower when tired, ill, or under the influence of drugs, alcohol, or medication.
- Keep children, bystanders, and pets at least 15 meters (50 feet) away from the operating area.
- Secure long hair above shoulder level.

1.2 Fuel Safety

- This leaf blower uses a 2-stroke engine and requires a specific fuel mixture of gasoline and 2-stroke oil. Refer to the engine manual for the exact mixing ratio.
- Mix and store fuel in a well-ventilated area, away from sparks or open flames.
- Do not smoke while handling fuel.
- Always allow the engine to cool before refueling.
- Wipe up any spilled fuel immediately.

1.3 Operation Safety

- Inspect the unit before each use for loose fasteners, damaged parts, or fuel leaks.
- Operate the blower only in well-ventilated outdoor areas.
- Never point the blower nozzle at people, animals, or loose objects.

- Be aware of your surroundings and maintain firm footing, especially on slopes.
- Avoid operating the blower in wet conditions or rain.

2. PRODUCT OVERVIEW

The BOUDECH 52cc 2-Stroke Backpack Leaf Blower is designed for efficient removal of leaves and debris. It features a powerful engine and an ergonomic design for user comfort.



Figure 2.1: Overall view of the BOUDECH 52cc 2-Stroke Backpack Leaf Blower.

2.1 Key Features

- **Engine:** 52 cc, 2-stroke, air-cooled.
- **Power Output:** 1.5 kW (approximately 7000 RPM).
- **Air Volume:** 890 m³/h.
- **Air Speed:** Up to 280 km/h.
- **Ergonomic Design:** Features a padded backrest and adjustable shoulder straps for comfort during extended use.

- **Anti-Vibration System:** Designed to reduce user fatigue.
- **Throttle Easy Lock:** For continuous operation without holding the trigger.



ERGONOMIC PADDED BACKREST

Figure 2.2: Close-up of the ergonomic padded backrest for user comfort.



Figure 2.3: Illustration of the shock absorption system, designed to minimize vibrations during operation.

THROTTLE EASY LOCK



Figure 2.4: Detail of the throttle easy lock mechanism on the control handle.

3. ASSEMBLY

Follow these steps to assemble your BOUDECH backpack leaf blower.

3.1 Attaching the Blower Tubes

1. Connect the flexible hose from the blower unit to the main blower tube. Ensure a secure fit.
2. Attach the various sections of the blower tube together. Twist or click into place as designed.
3. Secure the nozzle to the end of the blower tube.



Figure 3.1: Different configurations of the blower tube sections.

3.2 Attaching the Control Handle

1. Locate the control handle and its mounting bracket.
2. Attach the control handle to the blower tube at a comfortable operating position. Tighten any fasteners securely.
3. Connect the throttle cable from the engine to the control handle, ensuring smooth operation of the throttle trigger.



Figure 3.2: Fully assembled BOUDECH backpack leaf blower with harness.

4. OPERATION

This section details the steps for starting and operating your leaf blower safely and effectively.

4.1 Fueling the Blower

1. Ensure the engine is cool before adding fuel.
2. Prepare the correct 2-stroke fuel mixture (gasoline and 2-stroke oil). Refer to your engine manual for the precise ratio. A common ratio is 25:1 (4% oil).
3. Carefully pour the fuel mixture into the fuel tank, avoiding overfilling.
4. Securely replace the fuel cap.

4.2 Starting Procedure

1. Place the blower on a flat, stable surface.
2. Set the engine switch to the 'ON' (I) position.
3. Engage the choke lever (usually to the 'CLOSED' or 'START' position).
4. Press the primer bulb several times until fuel is visible in the return line.
5. Pull the starter cord firmly and steadily until the engine attempts to start (usually 1-3 pulls).
6. Once the engine 'pops' or attempts to start, disengage the choke lever (to the 'OPEN' or 'RUN' position).
7. Pull the starter cord again until the engine starts and runs smoothly.
8. Allow the engine to warm up for a few moments before applying full throttle.

4.3 Operating the Blower

1. Once the engine is running, put on the backpack harness. Adjust the straps for a comfortable and secure fit. The built-in harness is designed for maximum comfort and safety.
2. Hold the control handle firmly.
3. Press the throttle trigger to increase engine speed and air output. Use the throttle easy lock for continuous operation if desired.
4. Direct the blower nozzle towards the leaves or debris you wish to move. Use a sweeping motion for best results.
5. Avoid blowing debris towards people, animals, or sensitive areas.



Figure 4.1: The built-in harness system, designed for maximum comfort and safety during use.

4.4 Stopping the Blower

1. Release the throttle trigger to allow the engine to idle.
2. Move the engine switch to the 'OFF' (O) position.
3. Wait for the engine to come to a complete stop before removing the blower.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your leaf blower. Always disconnect the spark plug wire before performing any maintenance.

5.1 Spark Plug Maintenance

Periodically check and clean the spark plug. Replace if worn or fouled.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.

3. Inspect the electrode for wear and carbon buildup. Clean with a wire brush if necessary.
4. Check the spark plug gap and adjust if needed according to the engine manual specifications.
5. Reinstall the spark plug and cap.

EASY SPARK PLUG CHECK



Figure 5.1: Access point for easy spark plug inspection and maintenance.

5.2 Air Filter Maintenance

Clean the air filter regularly to prevent engine damage and maintain performance.

1. Locate and remove the air filter cover.
2. Remove the air filter element.
3. Clean the filter element with warm, soapy water, or compressed air. Allow it to dry completely.
4. Reinstall the clean air filter and cover.

5.3 Fuel Filter Maintenance

The fuel filter is located inside the fuel tank. Check it periodically for debris and replace if clogged.

5.4 General Cleaning and Storage

- Clean the exterior of the blower after each use, removing any debris from cooling fins and air intakes.
- For long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel.
- Store the blower in a dry, well-ventilated area, away from children and ignition sources.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your leaf blower.

Problem	Possible Cause	Solution
Engine does not start	<ul style="list-style-type: none"> • No fuel or incorrect fuel mixture • Engine switch in 'OFF' position • Choke not engaged or disengaged too early • Spark plug fouled or damaged • Air filter clogged 	<ul style="list-style-type: none"> • Check fuel level and mixture. Refuel if necessary. • Move engine switch to 'ON' (I). • Follow starting procedure carefully. • Clean or replace spark plug. • Clean air filter.
Engine runs poorly or lacks power	<ul style="list-style-type: none"> • Clogged air filter • Incorrect fuel mixture • Spark plug issues • Carburetor needs adjustment 	<ul style="list-style-type: none"> • Clean air filter. • Ensure correct fuel mixture is used. • Clean or replace spark plug. • Consult a qualified service technician for carburetor adjustment.
Excessive vibration	<ul style="list-style-type: none"> • Loose components • Damaged fan/impeller 	<ul style="list-style-type: none"> • Check all fasteners and tighten as needed. • Inspect fan/impeller for damage. If damaged, seek professional repair.
Fuel leak	<ul style="list-style-type: none"> • Loose fuel cap • Damaged fuel line or tank 	<ul style="list-style-type: none"> • Tighten fuel cap. • Inspect fuel lines and tank for cracks or damage. Replace damaged parts immediately. Do not operate with a fuel leak.

7. SPECIFICATIONS

Detailed technical specifications for the BOUDECH 52cc 2-Stroke Backpack Leaf Blower.

Feature	Specification
Engine Type	2-Stroke, Air-Cooled
Engine Displacement	52 cc
Power Output	1.5 kW
Max RPM	7000 rpm
Air Flow Capacity	890 m ³ /h
Max Air Speed	280 km/h
Weight	11 Kilograms
Form Factor	Backpack
Power Source	Fuel Mixture
Package Dimensions	53.2 x 48.1 x 38 cm

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.