

The information in this manual must be read and understood by the operator before using the unit. Please keep these instructions safe.



30 CC 2-Stroke Backpack Petrol Leaf Blower Model BPB1



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Application

The blower is designed for clearing leaves, and other light weight debris from your garden, drive, or paths.

Accessories

Flex Tube / Intermediate Tube / 45mm Concentrator Nozzle / Sparkplug Wrench With Screwdriver

General safety rules

⚠WARNING When using the unit, basic safety precautions, including the following, should always be followed to reduce the risk of serious personal injury and damage to the unit. Read all these instructions before operating this product and save these instructions in a safe place for future reference.

- Do not allow children or untrained individuals to use the unit.
- Do not start or run the engine in a closed area; breathing exhaust fumes can kill.
- Wear tough work clothing that will provide protection, such as heavy long pants, safety work shoes, heavy duty work gloves, hard hat, a safety face shield, or safety glasses for eye protection and ear plugs for hearing protection.
- Keep children, bystander, and animals 50 feet (15m) away. If approached stop unit immediately.
- **Do not operate the machine near open windows.**
- To reduce the risk of injury associated with objects being drawn into the rotating parts, do not wear loose clothing, scarves, necklace, and the like. Secure long hair so it is above shoulder level.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Wear a face filter mask in dusty conditions to reduce the risk of injury associated with the inhalation of dust.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance or exposure to hot surfaces.
- Comply with all fire prevention regulations. Compliance with all local, state, or federal laws is the user's responsibility. Never operate the unit without a spark arrestor screen; this screen is located inside the exhaust silencer.
- To reduce the risk of the fire and burn injury, handle fuel with care. It is highly flammable.
- Empty fuel tank and restrain the unit from moving before transporting in a vehicle.
- Turn the unit off before setting it down.
- Before storing, allow the engine cool.
- Do not smoke while handling fuel.
- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Select bare ground, stop engine, and allow to cool before refueling.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Tighten the fuel cap securely after refueling.
- Wipe spilled fuel from the unit. Move 10 feet (3 m) away from refueling site before





starting engine.

- Never attempt to burn off spilled fuel under any circumstance.
- Maintain the unit per maintenance instructions in this Operator's Manual.
- Inspect the unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.
- Use the full blower nozzle extension so the air stream can work close to the ground

Specific Safety Rules

- To reduce the risk of hearing loss associated with sound level, we recommend wearing hearing protection.
- Rotating impeller blades can cause severe injury. Do not put hands or any other object into the blower tubes while they are installed on the unit.
- To reduce the risk of injury associated with contacting rotating parts, stop the engine before installing or removing attachments. Do not operate without guard in place. Always disconnect the spark plug before performing maintenance or accessing any movable parts.
- Do not point the blower nozzle in the direction of people, animals, fires or open windows.
- Never run the unit without the proper equipment attached and always install the blower tubes.

Symbols marked on the product

	<p>Read the user manual before using the machine.</p>		<p>Wear safety goggles to protect your eyes; Wear ear protector to protect against noise.</p>
	<p>Keep bystanders away. Never work while people, especially children or pets are nearby.</p>		<p>keep hands out of rotation fan</p>

TECHNICAL DATA

Model	BM-3SPK-300 / BPB1
Air velocity	450km/h
Air volume	13m ³ /min
Engine displacement	30 cm ³
Fuel tank capacity	500 ml
Fuel type	unleaded
Fuel mixture	40:1
rated engine power	1kW /7500/min
Idling speed	3500 min ⁻¹
Max engine speed	9000 min ⁻¹
sound pressure level at operator's position	LpA= 95,1dB(A) K=3dB(A)
measured sound power level	LwA=102,7 dB(A) K=1,99dB(A)
guaranteed sound power level	LwA= 105dB(A)
Vibration	4.374m/s ² K=1.5m/s ²
Net weight	8.0 Kg

PARTS DESCRIPTION

- | | | |
|---------------------------------|----------------------------|------------------------------|
| 1. Throttle Trigger | 09. Fuel Tank | 17. Hose Clamps |
| 2. Lock-out | 10. Fuel Cap | 18. Exhaust Silencer Cover |
| 3. On/Off Ignition Switch | 11. Harness | 19. Spark Arrester Screen |
| 4. Top Handle | 12. Primer Bulb | 20. Vented Back Pad |
| 5. Starter Handle | 13. Control Handle | 21. Intermediate Tube |
| 6. Spark Plug Lead / Spark Plug | 14. Operating Tube | 23. 45Mm Concentrator Nozzle |
| 7. Air Cleaner Cover | 15. Throttle Linkage clips | |
| 8. Choke Lever | 16. Flex Tube | |



ASSEMBLY

ATTACH FLEX TUBE

Put the hose clamp(C) on the flex tube before the flex tube and the fan's outlet tube together. flex tube(B) to the fan's outlet tube(A)(Fig.1) with a clamp(C)(Fig.2) and tighten securely(Fig.2).

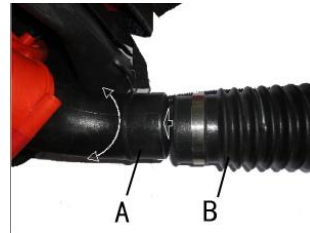


Fig.1

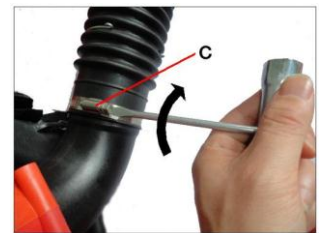


Fig.2

ATTACH OPERATING TUBE

NOTE: keep the throttle cable as straight as possible when connecting the blower tubes.

1. Place the unit on flat surface during assembly. Insure screw mechanism of clamp is positioned away from operator.
2. Put the hose clamp(G) on the flex tube and the operating tube together.
3. Turn the rotary ring mark(D) so it aligns with the throttle handle(F). Insert the operating tube(E) into the flex tube(B)(Fig.3) and then tighten securely with a hose clamp(G)(Fig.4).
4. Attached throttle linkage clips(#24-know your blower)-to both ends of the flex tube to secure the throttle cable.(See Fig.5 and Fig.6)

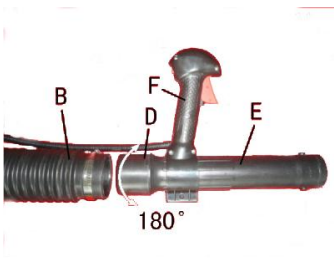


Fig.3

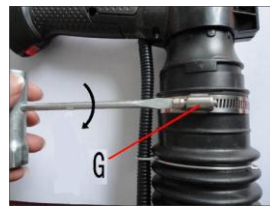


Fig.4



Fig.5



Fig.6

ATTACH INTERMEDIATE TUBE AND CONCENTRATOR NOZZLE

Connect the intermediate tube(H) and air nozzle(I).

Push the tubes together and turn them clockwise so that they Lock together.(Fig.7) ■

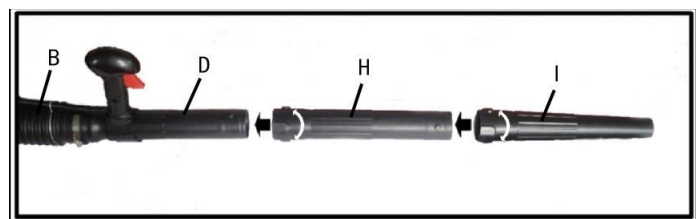


Fig.7

ADJUST BACK PACK AND HARNESS AND CONTROL HANDLE

1. Place blower on your back by slipping arms through the shoulder straps as if you were putting on a jacket.
2. Once adjustments have been made to the straps for user comfort, remove the blower from your back and place on level ground in an upright position.
3. Adjust backpack harness and control handle. ■

FUEL AND LUBRICATION

FUEL

Use regular grade unleaded petrol mixed with 40:1 premium grade 2-stroke oil for air-cooled engine for best results. Use mixing ratios in Section FUEL MIXING TABLE below. 2-stroke oil can be purchased from petrol stations, garden centres, DIY stores etc.

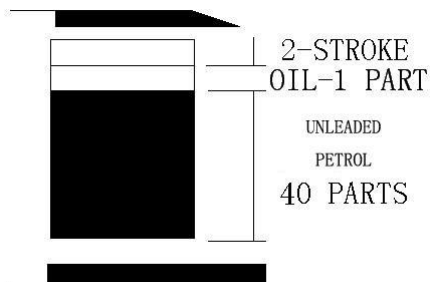


WARNING: Never use straight petrol in your unit or less oil to petrol than recommended as, this will cause permanent engine damage and void your warranty. Never use a fuel mixture that has been stored for over 90 days.

MIXING FUEL

Add oil to an approved fuel container followed by the petrol
Shake container to ensure thoroughly mixed.
Never mix petrol and oil in the fuel tank!

FUEL AND LUBRICATION SYMBOLS



STARTING A COLD ENGINE

1. Make sure ignition switch(A) is in the ON (I) position.(Fig.9)
2. Pump primer bulb 10X by pressing up on the bulb(D).(Fig.10)
3. Your unit is designed with a 3 position choke: FULL CHOKE " |←| ",PARTIAL CHOKE" |↘| ",and RUN " |↑| ".Move choke lever to FULL CHOKE " |←| " position.(Fig.11)
4. With the unit on the ground, hold the top assist handle and step on the bottom of the frame with foot.
5. Pull starter rope 4-6 times-if unit does not start move choke lever to position 2 and pull 4-6 more times.Wait 10 sec. after unit starts then move choke lever to position 3.
6. Push the Lock-out(C) button and press throttle trigger(B) to run. .

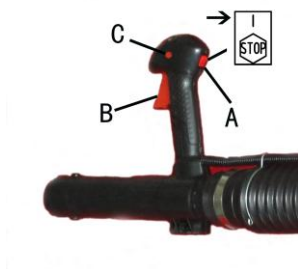


Fig.9

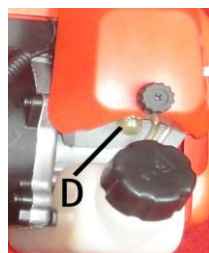


Fig.10



Fig.11

NOTE: If engine fails to start after repeated attempts, refer to Troubleshooting section.

NOTE: Always pull starter rope straight out. Pulling starter At an angle will cause rope to rub against the eyelet. This friction will cause the rope to fray and wear more quickly. Always hold starter handle when rope retracts. Never let a rope snap back from extended position. This could cause rope to snag or fray and also damage the starter assembly.

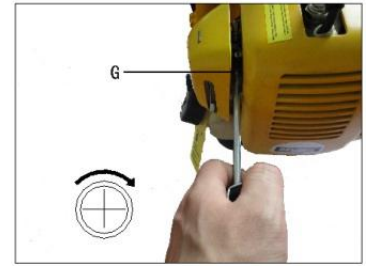


Fig.15

IMPORTANT IDLING INFORMATION

In some cases due to operating conditions (altitude, temperature etc.) your blower may need a slight adjustment to the idle speed. After warm up, if unit does not idle after restarting 2 times, follow these steps to adjust idle.

1. Locate the idle adjustment screw (G) on the carburetor (Fig.15).
2. Using a Phillips or slotted screwdriver - turn screw 1/4 to 1/2 turn clockwise (to the right). Unit should then idle properly.

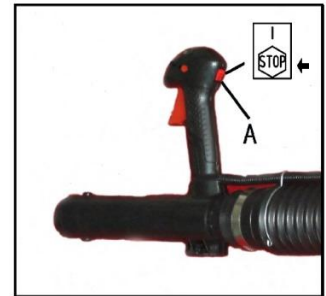


Fig.16

STOPPING THE ENGINE

Emergency STOPPING Procedure

When it is necessary to stop blower engine immediately, PRESS the OFF "STOP" switch (A). (Fig.16)

Normal Stopping Method.

For normal stopping, release trigger and allow engine to return to idle speed. Then PRESS the OFF "STOP" switch (A). (Fig.16)

STARTING A WARM ENGINE (Engine has been stopped for no more than 15-20 minutes)

Re-set "ON/OFF" switch to "ON" (I)

Set choke control level to "RUN" | ↑ |

Pull start rope. If the engine does not start after 3-4 pulls, set choke level to "PARTIAL CHOKE" | ↘ | and try again.

BLOWER OPERATIONS



WARNING: Because of flying debris, we highly recommend wearing approved shielded safety glasses when operating blower.



WARNING: DO NOT operate the blower with other people in the immediate vicinity. Allow a minimum of 50 feet(15 meters)between operator and other people or animals.



WARNING: Before using your blower, review Safety Precautions in your user Manual, and all regulations for operation of the unit. These precautions and regulations are for your protection.

We recommend that a face mask be worn when operating blower in dusty areas. Stand away from the debris, at a distance that will easily allow you to control the direction of blown debris. Never blow debris in direction of bystanders or near to open windows or doors. To control velocity of air stream, blower can be operated at any speed between idle and full throttle. Experience with the unit will help you determine the amount of airflow necessary for each application. Check your equipment before operation, especially the exhaust, air intakes and air filters. Use rakes and brooms to loosen debris before blowing. In dusty conditions, slightly dampen surfaces when water is available. Use intermediate tube plus nozzle of your choice so the air stream can work close to the ground.

OPERATION INSTRUCTIONS

1. Follow the instructions "STARTING A COLD ENGINE".
2. once unit is running, place unit on your back by slipping arms through the shoulder straps as if your were putting on a jacket
3. When preparing to clear an area of debris, always position yourself so that you can control the direction debris will be blown.
4. The control handle and the flexibility of the blower tube assembly will allow you to clear the most hard-to-reach areas.
5. The hand grip ,throttle trigger, throttle lock and ignition on/off switch(B)are all mounted on a swivel handle that offers a wide range of operating positions and comfort

MAINTENANCE

AIR FILTER



CAUTION: NEVER operate blower without the air filter or dust and dirt will be sucked into the engine and damage it. The air filter must be kept clean. If it becomes damaged, install a new filter.

TO Clean Air Filter:

1. Loosen knob(A) holding air filter cover in place, remove, cover(B) and lift filter(C) from air box (Fig.20 & Fig.21).
2. Wash filter in soap and water. DO NOT USE GASOLINE!
3. Air dry filter.
4. Reinstall air filter and air filter cover.



Fig.20



Fig.21

NOTE: Replace filter if frayed, torn, damaged or unable to be cleaned.

FUEL CAP / FUEL FILTER



CAUTION: Remove fuel from unit and store in approved container before starting this procedure. Open fuel cap slowly to release any pressure which may have formed in fuel tank

NOTE: Keep vent(A) on fuel cap clean of debris(Fig.22).

Fuel filter.

1. Completely remove fuel cap from fuel tank(B) to be able to remove fuel filter(C) from tank. Use a piece of wire(C) with a hook formed at the end to pull filter out of tank.(Fig.23)
2. Pull off fuel filter(C) with a twisting motion.(Fig.24)
3. Replace fuel filter.(Fig.24)

NOTE: Never operate the blower without the fuel filter. Internal engine damage could result!



Fig.22

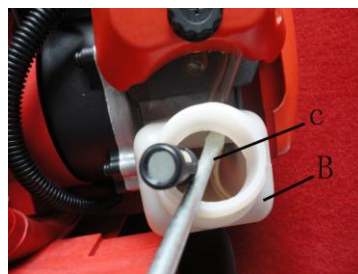


Fig.23



Fig.24

CARBURETOR ADJUSTMENT

The carburetor was pre-set at the factory for optimum performance. If further adjustments are necessary take your blower to a qualified service dealer.

SPARK PLUG

1. To remove spark plug(B)(Fig.25)for cleaning or replacement: make sure engine is off, spark plug is cool, then grasp spark plug boot firmly and remove from spark plug. Remove spark plug with correct spark plug tool. Inspect, clean or replace as needed.
2. Spark plug gap =.025 in.(.635mm)(Fig.26).
3. Torque to 105 to 130 inch pounds (12 to 15 Nm). Connect spark plug boot.

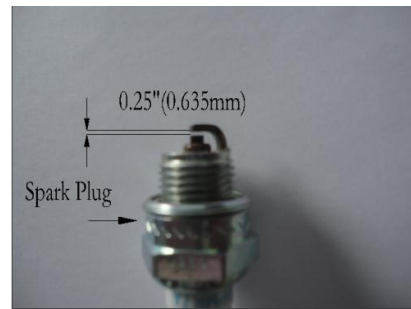


Fig.25

STORAGE



WARNING: Failure to follow these steps may cause varnish to form in the carburetor and difficult starting or permanent damage following storage.

1. Perform all the general maintenance recommended in the Maintenance Section of your User Manual.
2. Clean outside surface of unit.
3. Drain fuel from the fuel tank.
4. After fuel is drained, start engine.
5. Run engine at idle until unit stops. This will purge the carburetor of fuel.
6. Allow engine to cool (approx. 5 minutes).
7. Using a spark plug wrench, remove the spark plug.
8. Pour 1 teaspoon of clean 2-cycle oil into the combustion chamber. Pull starter rope slowly several times to coat internal components. Replace spark plug.
9. Store unit in a cool, dry place away from any source of ignition such as an oil burner, water heater, etc.

REMOVING A UNIT FROM STORAGE

1. Remove spark plug.
2. Pull starter rope briskly to clear excess oil from combustion chamber.
3. Clean and gap spark plug or install a new spark plug with proper gap.(Fig.24)
4. Prepare unit for operation.
5. Fill fuel tank with proper fuel/oil mixture. See Fuel and Lubrication Section.

TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Unit won't start or starts but will not run.	<u>Incorrect starting procedures.</u>	<u>Follow instructions in the User Manual.</u>
	<u>Incorrect carburetor mixture adjustment setting.</u>	<u>Have carburetor adjusted by Authorized Service Center</u>
	<u>Dirty spark plug.</u>	<u>Clean/gap or replace plug.</u>
	<u>Empty fuel tank.</u>	<u>Fill fuel tank with properly mixed fuel.</u>
	<u>Primer bulb was not pressed enough</u>	<u>Press primer bulb fully and slowly 10 times.</u>
Unit starts, but engine has low power	<u>Fuel filter is plugged</u>	<u>Replace spark arrestor screen.</u>
	<u>Incorrect lever position.</u>	<u>Move to RUN position.</u>
	<u>Dirty spark arrestor screen.</u>	<u>Replace spark arrestor screen.</u>
	<u>Dirty air filter</u>	<u>Remove, clean and reinstall filter.</u>
	<u>Incorrect carburetor mixture adjustment setting service dealer</u>	<u>Have carburetor adjusted by an Authorized Service Center.</u>
Engine hesitates	<u>Incorrect carburetor mixture adjustment setting</u>	<u>Have carburetor adjusted by an Authorized Service Center.</u>
	<u>Air filter is clogged</u>	<u>Replace or clean the air filter.</u>
	<u>Old or improperly mixed fuel</u>	<u>Drain fuel tank/add fresh fuel mixture.</u>
No power under load.	<u>Incorrect carburetor mixture adjustment setting</u>	<u>Have carburetor adjusted by an Authorized Service Center.</u>
	<u>Old or improperly mixed fuel.</u>	<u>Drain fuel tank (see storage)/add fresh fuel mixture.</u>
	<u>Air filter is clogged</u>	<u>Replace or clean the air filter.</u>
	<u>Dirty spark plug.</u>	<u>Replace or clean the spark plug.</u>
Runs erratically.	<u>Incorrectly gapped spark plug.</u>	<u>Clean or replace plug.</u>
	<u>Clogged spark arrestor.</u>	<u>Clean or replace spark arrestor.</u>
	<u>Dirty air filter.</u>	<u>Clean or replace air filter.</u>
Smokes excessively.	<u>Incorrect carburetor mixture adjustment setting.</u>	<u>Have carburetor adjusted by an Authorized Service Center.</u>
	<u>Incorrect fuel mixture.</u>	<u>Use properly mixed fuel(40:1mixture).</u>

Guarantee

This product is guaranteed for a period of 12 months from date of purchase against faulty workmanship provided the machine is used strictly in accordance with these instructions and not modified in any way.

Should you require to make a claim please be sure to keep your receipt and contact the Eckman customer helpline on 0871 590 5917. You may also find useful information regarding operating the machine by visiting the Eckman website on www.eckman.co.uk. Your statutory rights remain unaffected.

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