

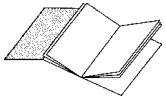
 **Operating Instructions**  
**Garden Blower Vac**



**Art.-No.: 519920**







**34.360.01**  
**I.-No.: 01014**

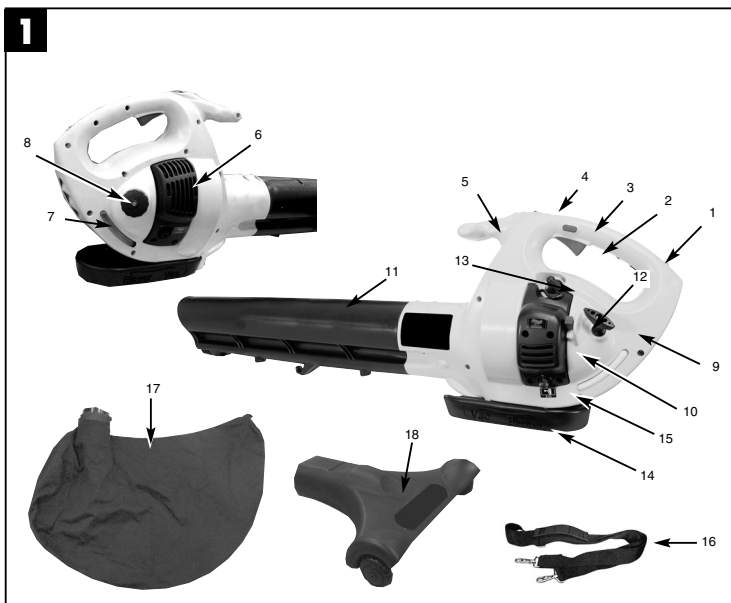
**SBV 3200**



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**Meaning of symbols marked on the product**

	Read the user manual before using the machine		Wear dust mask to protect against dust
	Wear safety goggles to protect your eyes		Wear gloves to protect your hands
	Wear ear protector to protect against noise		Wear safety boots to protect against electric shock



**GENERAL SAFETY RULES**• **WHAT NOT TO DO****READ YOUR USER MANUAL AND ALL SUPPLEMENTS (IF ANY ENCLOSED) THOROUGHLY BEFORE OPERATING YOUR UNIT.**

1. WEAR CLOSE FITTING, TOUGH WORK CLOTHING that will provide protection/without restricting your movements, such as long slacks or trousers, safety work shoes, heavy duty work gloves, hard hat, a safety face shield, or safety glasses for eye protection and a good grade of ear plugs or other sound barriers for hearing protection.
2. REFUEL IN A SAFE PLACE. Open fuel cap slowly to release any pressure which may have formed in fuel tank. Always wipe unit of fuel or oil spills before starting. To prevent a fire hazard, move at least 10 feet (3 meters) from fueling area before starting.
3. TURN UNIT OFF before setting it down, and also before installing or removing attachments.
4. KEEP ALL SCREWS AND FASTENERS TIGHT and the unit in good operating condition. Never operate this equipment if it is improperly adjusted or not completely and securely assembled.
5. KEEP HANDLES DRY, clean and free of fuel mixture.
6. STORE EQUIPMENT AWAY FROM POSSIBLE IGNITION SOURCES, such as gas-powered water heaters, clothes dryers, or oil-fired furnaces, portable heaters, etc.
7. ALWAYS KEEP the engine free of debris build-up.
8. OPERATION OF EQUIPMENT should always be restricted to mature and properly instructed individuals.
9. ALL PERSONS WITH RESPIRATORY PROBLEMS and persons operating blower in very dusty environments, should wear a dust particle mask at all times. Paper dust masks are available at most paint and hardware stores.

• **WHAT NOT TO DO**

**WARNING:** DO NOT USE ANY OTHER FUEL than that recommended in your manual. Always follow instructions in the Fuel and Lubrication section of this manual. Never use gasoline unless it is properly mixed with 2-stroke engine lubricant. Permanent damage to engine will result, voiding manufacturer's warranty.

1. DO NOT SMOKE while refueling or operating equipment.
2. DO NOT OPERATE UNIT WITHOUT A MUFFLER and properly installed muffler shield.
3. DO NOT TOUCH or let your hands or body come in contact with a hot muffler or spark plug wire.
4. DUE TO THE DANGER of exhaust fumes, never operate blower in a confined or poorly ventilated area.

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5. NEVER POINT BLOWER in the direction of people, animals, buildings, automobiles, or windows, etc.
6. DO NOT operate unit without inlet cover installed to prevent contact with impeller.
7. DO NOT set a hot engine down where flammable material is present.
8. DO NOT OPERATE UNIT FOR PROLONGED PERIODS. Rest periodically.
9. DO NOT OPERATE UNIT WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.

**WARNING:** DO NOT ADD, REMOVE OR ALTER ANY COMPONENTS OF THIS PRODUCT. Doing so could cause personal injury and/or damage the unit voiding the manufacturer's warranty.

10. DO NOT operate your unit near or around flammable liquids or gases whether in or out of doors. An explosion and/or fire may result.
11. DO NOT WEAR loose clothing, scarfs, neck chains, unconfined long hair, and the like. Doing so could cause injury associated with objects being drawn into the rotating parts. Tie up long hair and fasten it, for example with a head scarf, cap, helmet, etc.
12. DO NOT refuel a running engine or an engine that is hot

**Layout (Fig. 1)**

1. Rear Handle
2. Throttle Trigger
3. Throttle Lock
4. On/Off Switch
5. Front Handle
6. Muffler Cover (Exhaust)
7. Fuel Tank Window
8. Fuel Cap
9. Starter Handle
10. Air Filter Cover
11. Vacuum/Blower Tube
12. Choke Lever
13. Spark Plug Wire / Spark Plug
14. Vacuum/Blower Slide
15. Primer Bulb
16. Harness
17. Vacuum Bag
18. Speed Cleaner Head



**2. Technical data**

Engine	.24 cm <sup>3</sup>
Max. Air Velocity	.ca. 40 m/s
Max. Air Volume	.240 m <sup>3</sup> /h
Max. Engine Speed	.11,500 min <sup>-1</sup>
Collection Bag	.55 Litre
Mulching Ratio	.10:1
Fuel Capacity	.700 ml
Weight	.6.4 kg
Maximum Enquine Performance	.0.8 kW
Noise	.108 dB(A)
Vibration	.13.7 m/s <sup>2</sup>

**3. BLOWER ATTACHMENT ASSEMBLY INSTRUCTIONS**

1. Release the screws (A) and remove the screw (B). Insert blower tube (C) into the blower housing and replace screw (B). Tighten screws (A). (Fig. 1A)
2. Insert speed cleaner head (D) to the tube (C). (Fig. 1B)

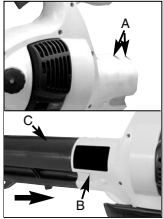


Fig. 1A

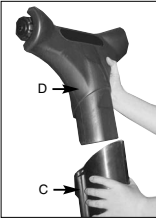


Fig. 1B

- **HARNES INSTALLATION**  
Attach the 2 harness clips to the 2 links in the blower handle. (Fig. 2)



Fig. 2

- **VACUUM ATTACHMENT ASSEMBLY INSTRUCTIONS**

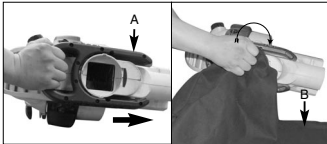


Fig. 3

**To install vacuum bag:**  
Pull the slide (A) forward and fit bag (B) into the vacuum housing. (See Fig. 3)

**NOTICE: Vacuum bag installation**  
The vacuum bag connection tube **MUST** be scurely and correctly fitted to the vacuum housing (see fig. 3 of the instructions) prior to the operation. To ensure the tube is in place correctly, first line up with the indentations either side of the opening. Push the connector into place and turn to the right until a click is heard and the unit locks securely.

This is a safety feature and if the connector is not in place the blower vac will not start.

The vacuum bag can now be fitted over the open end of the connection tube and secured with the velcro strap.

**FUEL AND LUBRICATION**

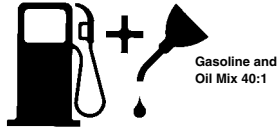
- **FUEL**  
Use regular grade unleaded gasoline mixed with 40:1 custom 2-stroke engine oil for best results.

**WARNING:** Never use straight gasoline in your unit. This will cause permanent engine damage and void the manufacturer's warranty for that product. Never use a fuel mixture that has been stored for over 90 days.

**WARNING:** Use only Class I 2-stroke oil suitable for air-cooled engines.

- **MIXING FUEL**  
Mix the fuel with 2-stroke oil in a suitable container. Shake the container to ensure that it is properly mixed.

• **FUEL AND LUBRICATION**



- **RECOMMENDED FUELS**  
Some conventional gasolines are being blended with oxygenates such as alcohol or an ether compound to meet clean air standards. Your engine is designed to operate satisfactorily on any gasoline intended for automotive use including oxygenated gasolines.

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**OPERATING INSTRUCTIONS****STARTING A COLD ENGINE**

Fill fuel tank with proper gas and oil mixture. See Fuel and Lubrication. Set unit on ground so that it rests on housing feet.

1. Pull the throttle trigger (A). (It will auto lock) Fig. 4A.
2. Prime the carburetor. Pump the primer bulb (C) 10 times (Fig. 4B).
3. Your unit is designed with a 2 position choke (D): START "I" and RUN "II". Move choke lever to START "I" position (Fig. 4C).
4. Grip handle firmly.
5. Pull starter rope out a short way until resistance is felt (approximately 100mm). Pull starter rope quickly and evenly until engine starts or attempts to run. Once engine starts, warm up at full throttle for 10 seconds and release throttle.
6. Push down the throttle lock (B), the throttle trigger (A) will back to the normal position. (Fig. 4A)
7. Move the choke to RUN "II" position (Fig. 4E).

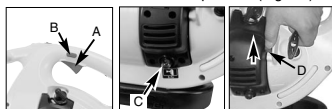


Fig. 4A

Fig. 4B

Fig. 4C



Fig. 4D

Fig. 4E

**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 allow rope to snap back from extended position. This could cause rope to snag or fray and also damage the starter assembly.

**STOPPING THE ENGINE**

**Emergency Stopping Procedure.** When it is necessary to stop blower engine immediately, DEPRESS the switch to stop.

**Normal Stopping Method.** For normal stopping, push down the throttle lock, the throttle trigger will back to the normal position and allow engine to return to idle speed. Then DEPRESS and HOLD the "OFF" switch until the engine stops completely.

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

1. Pull starter rope again. Engine should start with ONE or TWO pulls. If engine fails to start after 6 pulls, repeat steps 2 through 6 (see Starting a cold engine).
2. If engine does not start, or starts and then stops after 5 rope pulls, follow procedure "STARTING A COLD ENGINE".

**BLOWER OPERATIONS (Fig. 5)**

Your blower is designed to easily remove debris from patios, walkways, lawns, bushes, etc., and many hard to reach areas where debris may accumulate.

**WARNING:** Because of flying debris, always wear approved shielded safety glasses or face shield when operating blower.

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.



Fig. 5

**CAUTION:** Hold the blower so that hot exhaust does not damage clothing and is not inhaled by operator.

**DO NOT** operate the blower with other people or animals in the immediate vicinity. Allow a minimum of 30 feet (9 meters) between operator and other people or animals.

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.

To control velocity of airstream, 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.

**VACUUM OPERATIONS**

**WARNING:** NEVER OPERATE VACUUM WITHOUT VACUUM BAG PROPERLY ATTACHED, AS FLYING DEBRIS COULD CAUSE INJURY TO OPERATOR AND BYSTANDERS. ALWAYS MAKE SURE VACUUM BAG ZIPPER IS CLOSED BEFORE OPERATING UNIT.

Do not vacuum hot or burning materials (e.g. hot ash, glowing cigarettes) from outdoor fireplaces or barbecue pits. Always wait for these materials to be cool enough. Do not vacuum lighted smoking material such as discarded cigars or cigarettes. Do not operate unit near open flame.

**CAUTION:** This unit is designed to vacuum up debris such as leaves, small bits of paper, small twigs, weeds, grass clippings, etc. Do not use this unit for any other purpose.

Do not attempt to vacuum rocks, broken glass, bottles, tin cans or other such objects. Damage to impeller and unit as well as operator injury could result.

If vacuum tube is level with power unit horizontal, rocks or large objects may be drawn into tube, damaging the impeller.

**To Operate Vacuum:**

1. Follow correct starting procedures as explained in this manual.
2. Allow engine to return to idle. Put the shoulder harness on so the strap is over your right shoulder. Put the vacuum bag strap on so it is over your left shoulder.

**CAUTION:** Do not allow shoulder harness to cover, block, or come in contact with exhaust outlet during operation. The muffler generates heat and could burn, melt, or damage harness strap.

3. Place your left hand on the top handle and right hand on side handle as shown (Fig. 6).
4. Swing unit side to side to vacuum debris.

**CAUTION:** To avoid clogging vacuum tube. DO NOT FORCE OR PLACE SUCTION TUBE INTO A PILE OF DEBRIS.



Fig. 6

• **VACUUM TUBE CLOGGING**

**To Unclog Vacuum Tube:**

1. Turn engine "OFF". Promptly compress vacuum bag while it is still inflated, expelling air out of the

suction tube.

This reverse airflow is usually sufficient to dislodge most obstructions. If the obstruction cannot be cleared by compressing vacuum bag, follow this procedure:

2. Remove and inspect vacuum tubes.
3. Carefully clean out nozzle.
4. Reinstall vacuum tubes.

**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. Remove 2 screws (A) holding air filter cover in place, remove cover (B) and lift filter (C) from cover (Fig. 7A and B).
2. Wash filter in soap and water. **DO NOT USE GASOLINE!**
3. Air dry filter.
4. Reinstall air filter and air filter cover.

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

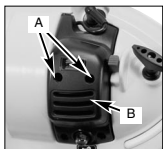


Fig. 7A

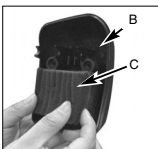


Fig. 7B

• **CARBURETOR ADJUSTMENT**

The carburetor was pre-set at the factory for optimum performance. If further adjustments are necessary, please take your unit to the nearest professional.

• **SPARK PLUG**

1. Spark plug gap = .025 in. (.635mm) (Fig. 8).
2. Torque to 105 to 130 inch pounds (12 to 15 N•m). Connect spark plug boot.



Fig. 8

• **VACUUM BAG CLEANING**

A dirty bag will obstruct airflow, thereby reducing vacuum efficiency.

**To Clean Bag:**

1. Detach vacuum bag from unit.
2. Open zipper and remove contents.
3. Turn bag **INSIDE OUT** and shake vigorously. This procedure should be performed on a regular basis.

**GB**

4. Turn bag RIGHT SIDE OUT, close zipper and attach to unit.

**NOTE:** If vacuum bag is unusually dirty, it should be washed by hand in warm water with a mild detergent. Rinse thoroughly. Let dry before using.

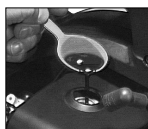


Fig. 9

• **STORING A UNIT**

**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-stroke oil into the combustion chamber (Fig. 9). 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.
4. Prepare unit for operation.
5. Fill fuel tank with proper fuel / oil mixture. See Fuel and Lubrication Section.

**TROUBLE SHOOTING THE ENGINE**

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Unit won't start or starts but will not run.	Incorrect starting procedures.	Follow instructions in the User Manual.
	Incorrect carburetor mixture adjustment setting.	Have carburetor adjusted by an Authorized Service Center.
	Fouled spark plug	Clean / gap or replace plug.
	Fuel filter plugged.	Replace fuel filter.
	Vacuum bag tube isn't fitted correctly.	Check vacuum bag tube is fitted correctly.
Unit starts, but engine has low power.	Incorrect lever position on choke.	Move to RUN position.
	Dirty air filter.	Remove, clean and reinstall filter.
	Incorrect carburetor mixture adjustment setting.	Have carburetor adjusted by an Authorized Service Center.
Engine hesitates.	Incorrect carburetor mixture adjustment setting.	Have carburetor adjusted by an Authorized Service Center.
No power under load.	Incorrectly gapped spark plug.	Clean / gap or replace plug.
Runs erratically.	Incorrect carburetor mixture adjustment setting.	Have carburetor adjusted by an Authorized Service Center.
Smokes excessively.	Incorrect fuel mixture.	Use properly mixed fuel (40:1 mixture).



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Landau/Isar, den 03.11.2004

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Art.-Nr.: 34.360.01 I.-Nr.: 01014 Archivierung: 3436000-02-4160270-E  
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Contact for Warranty repairs: HSS plc Tel: 0845 728 2828



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