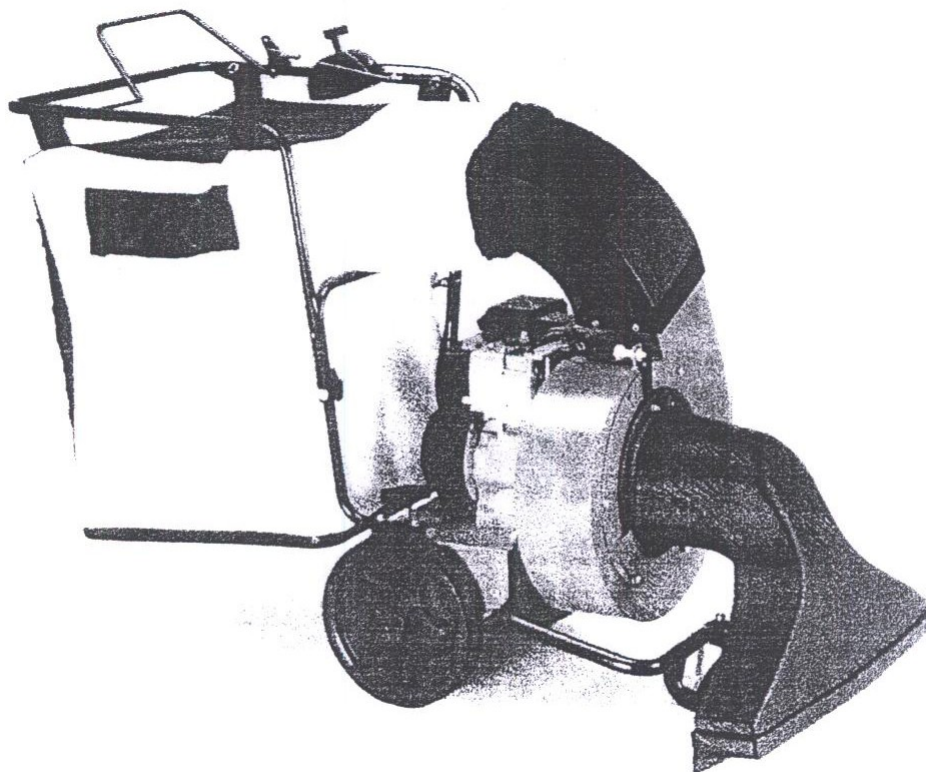


BENASSI[®] SpA

**OPERATION AND
MAINTENANCE MANUAL**

**LEAF SUCKER
SERIES**

AF200SL



CONTENTS

- ◇ INTRODUCTION
- ◇ LIST OF MACHINE PARTS
- ◇ IDENTIFICATION AND TECHNICAL CHARACTERISTICS
- ◇ PACKING AND TRANSPORT
- ◇ SAFETY RULES AND LIMITS ON USE
- ◇ STARTING AND STOPPING THE MACHINE
- ◇ OPERATING AND REGULATING THE MACHINE
- ◇ MAINTENANCE
- ◇ WARRANTY
- ◇ CERTIFICATION
- ◇ TESTS FOR SAFETY

INTRODUCTION

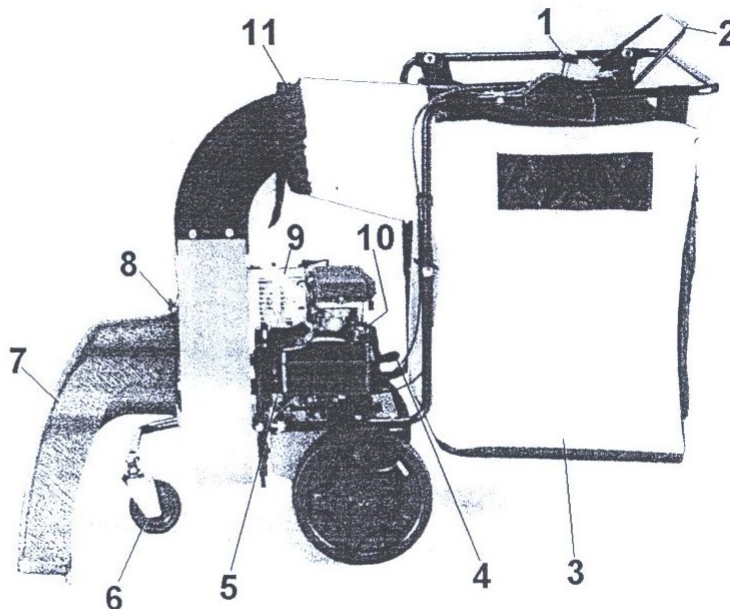
- ◇ Thank you for having selected our product. We would like to welcome you among our many customers.
- ◇ We are certain that you will appreciate the performance and the operating ease of this machine.
- ◇ Our wide experience in the sector, the use of top grade materials and the high quality production ensure the flawless efficiency of the machine, which is designed to give many years of use if operated and maintained correctly.
- ◇ We have therefore composed this manual to familiarise you with the use of the machine, its construction, operating features and applications, which will also facilitate maintenance.
- ◇ Pay special attention to the rules in this manual that are preceded by the symbol below:

**CAUTION !**

- ◇ This symbol indicates that the failure to comply with these rules may lead to personal injury.

LIST OF MACHINE PARTS

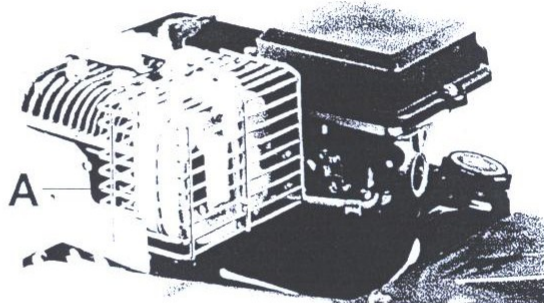
- 1) Accelerator
- 2) clutch lever
- 3) Bag
- 4) Engine start
- 5) Oil cap
- 6) Small wheel with adjustable arm
- 7) Suction opening
- 8) Knob to fix the opening
- 9) Muffler protection
- 10) Fuel cap
- 11) Belt to fix the bag



IDENTIFICATION AND TECHNICAL CHARACTERISTICS

Model: AF200SL
Weight: 68 Kg.
Engine: 4 stroke
Make: BRIGGS & STRATTON
Model: 135922
Swept volume: 206 cc.
Power max. driving shaft:
HP: 5 (kW 3,70)
RPM: 3500

-Pic. n°1-



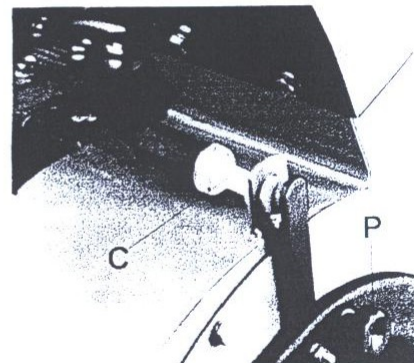
All engines installed on this leaf-suckers are equipped with :

- Muffler protection (Pic.1 Ref. "A")
- Pull start with self-winding cord
- Dry air filter
- OIL ENGINE 4 STROKE : AGIP DIESEL SIGMA SAE 30 Lt. 0.6
- Fuel engine : petrol 100/130 octane
- Consumption : 1,1 Kg/h.
- Transmission : clutch with multiple discs in oil bath (OIL : SHELL TELLUS T22)
- Regulation of the suction opening from the ground : from 2 to 11 cm.
- air capacity : 53 m³/min.
- The leaf-sucker with driving wheels in normal conditions reaches a speed of 2,9 Km/h.
- Wheels : Front Ø 125 mm. Back: Ø 300 mm
- Bag capacity : 200 LT.
- It is possible to fix a section pipe Ø 140 mm. and 3 Mt. long.
- It is possible to use the machine as a blower by rotating the central body.
- The suction opening is made of shockproof material.
- For machine identification (serial number, engine, weight, power) refer to the data plate as shown in the photo See Ref. "B Pic. 2.
- In the front part of the leaf sucker there is a safety system that, by means of a microswitch, prevents the engine from running and the fan from turning (see ref. "C" pic. 3) whenever the opening of the central body is left open (for example because the suction opening has been taken off).
- For machine dimensions see pics 4 and 5.

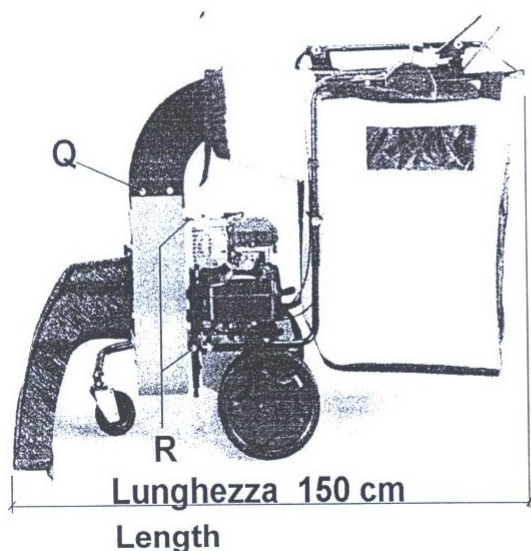
-Pic. n°2-



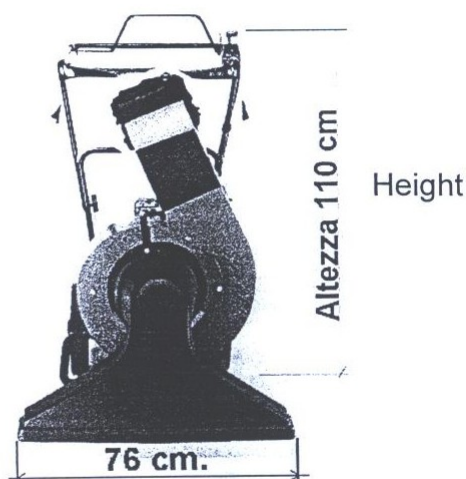
-Pic. n°3-



-Pic. n°4-



-Pic. n°5-



PACKING AND TRANSPORT

- ◇ WIDTH: 76 cm.
- ◇ DEPTH: 80,5 cm
- ◇ HEIGHT: 71 cm

- ⇒ Remove the leaf-sucker from its packing.
- ⇒ Fix the handles to the handlebar support using the screws and knobs pre-mounted on the handle. Make sure to position the control cables correctly.
- ⇒ Install the vac-bag by fixing both strips with eyelet of the upper part of the bag on the two screws located on the upper handlebar, so that the strip covers the handlebar pipe from the outside. Thread the bag opening on the extension of the central body and lace through the strip set in the bag opening.
- ⇒ IMPORTANT : THE PACKED MACHINE IS SUPPLIED WITH THE ENGINE WITHOUT OIL AND PETROL.
- ⇒ It is possible to reduce the overall dimensions of the machine for an easy transport by taking away the bag, and folding the upper handlebar on the engine after unfastening the two upper knobs, taking care of the screws and unfastening both lower knobs. See pic. 5

SAFETY RULES



IMPORTANT:

Before using the machine read carefully this operation and maintenance manual; It will allow you to get from your machine the best performance of use and duration.

IF YOU NEGLECT THIS, YOU'LL ENDANGER YOURSELF OR THE LEAF SUCKER.

- Do not tamper, take away or exclude any safety system.
- Read carefully this operation and maintenance manual.
- The use of this machine is prohibited to persons under 16 years of age.
- The operator is liable for damages since the machine is under his control.
- Those unfamiliar with the machine or who have never used it are obliged to read the operation and maintenance manual before operation.

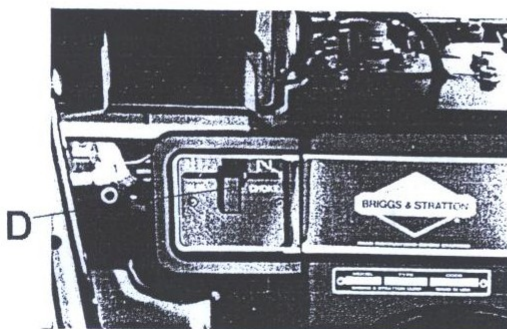
- In case of transport empty the petrol out of the tank.
- If the machine is left unattended, ensure that it cannot start up again.
- Never work in bare feet or sandals. Wear sturdy shoes and long pants. First inspect the area to be cut and remove stones, sticks, metal wires and other extraneous objects.
- Before starting the machine, ensure that there is a 5 meter radius of free space around the machine.
- Dry petrol leaks.
- Always add fuel to the tank with the engine off .The supply and/or transfer of fuel must always take place outdoors, away from flames or heat sources. Do not smoke during this operation.
- Before using the leaf-sucker, the operator must learn how to shut off the engine off quickly, and how to utilise the machine and the controls.
- Do not operate the engine where carbon monoxide exhaust may accumulate.
- Never utilise the leaf-sucker incomplete of or without the relative safety device. Never use the machine when is without its bag.
- Do not knock violently the suction opening against any walls during the use of the machine.
- Do not put any stick suction or exit opening when the engine runs.
- Take away the plug cap if you have to work at the fan or inside the sucking unit.
- While using the machine you have to hold the handlebar and walk quite slowly, especially if you have the manual drive version.
- Do not forget to switch off the engine when you want to empty the bag.
- Caution ! never work on slopes exceeding 30%.
- The user of the leaf-sucker is liable towards a third party for any damage caused by the machine within the working area. Children and unauthorised persons are to be kept away from the working area.
- The manufacturer shall not be held liable for any damages resulting from the failure to comply with these rules.

STARTING AND STOPPING THE LEAF-SUCKER

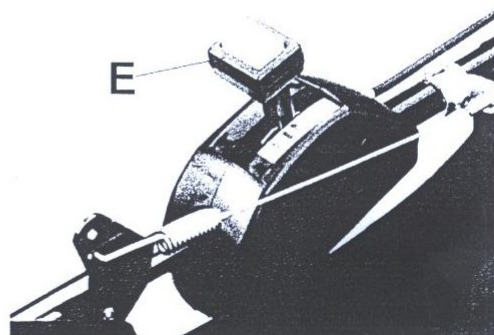
Before starting the motor, always make a careful check of the following :

- Check the engine oil level :IMPORTANT : MACHINES OUT OF THE FACTORY DO NOT CONTAIN OIL IN THE MOTOR. Add oil up to the oil level on the dipstick.(Pic.5)
 - The engine can be damaged if it runs with an insufficient quantity of oil.
 - PLEASE REFER TO THE ENGINE OPERATION AND MAINTENANCE MANUAL UNDER THE HEADING "BEFORE START-UP"
 - Always start-up the machine outdoors.
1. Place the motor lever (ref. "D" - pic.6) in the "CHOKE" position (this is necessary only to start the engine when it is cold)
 2. Place the accelerator lever Ref. "E" Pic.7 in the intermidium position.
 3. Pull slightly ("F" Pic. 8) until feeling a some resistance, then pull harder. When the engine is running, the cord should not be released suddenly, but should be guided back until it is rewound completely.
 4. Once the engine is running place the motor lever (ref. D - pic.6) in the "RUN" position.
 5. To shut off the engine release Place the accelerator lever ref. "E" - Pic.7 in "STOP" position.

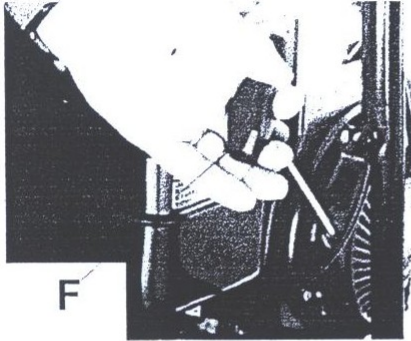
-Pic. n°6-



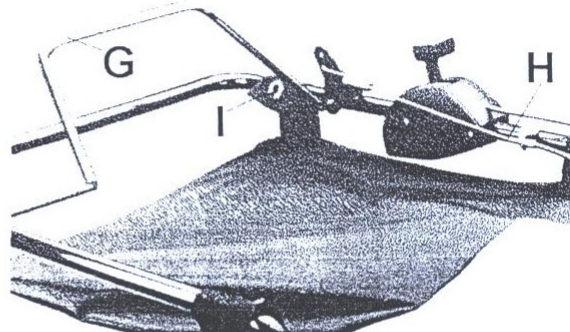
-Pic. n°7-



-Pic. n°8-



-Pic. n°9-



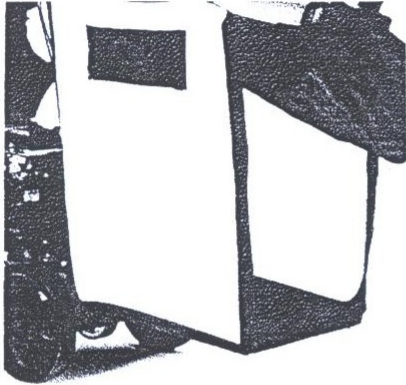
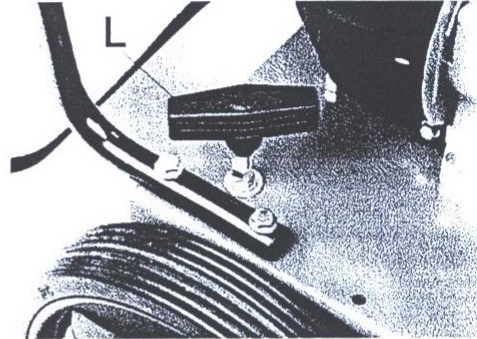
OPERATING AND REGULATING THE MACHINE

- Before starting to use the leaf-sucker check the fixing of the suction opening.
- Check the fixing of the bag and that the bag is not torn.
- The machine moves forward by pulling the lever "G" Pic.9.
- If the clutch slips or the lever is too hard to be pulled, you can regulate the clutch wire through the adjuster Ref. "I" Pic.9;
- When the vac-bag is full or very heavy, go next to the unloading area, switch off the engine, open the zipper at the back of the bag (see Pic.10) and empty it. It is also possible to uncouple the bag from the handlebar by lifting it with two hands with hole from the pins (Ref. "I" Pic.9), and loosening the belt .
- The height of the suction opening can be regulated easily through the knob (Ref. "L" Pic.11.). The height varies from 2 to 11 cm. from the ground, and it depends on the material that must be sucked.
- You can fix an accessory consisting of a flexible pipe ending with a stiff piece of pipe with knob (Pic.12.) if sucking must be carried out in narrow places inaccessible to the leaf sucker.
- You can fix this accessory by loosening the knob that fastens the opening (ref. "P" - pic.3), taking away the opening of the central body and fitting the flexible section pipe. Pay attention that the plate presses the button of the microswitch and screw the knob again.
- You can use the machine as a blower too (pic. 13) by means of an accessory that allows you to blow leaves, wastepaper, etc., towards narrow areas such as the roadside to collect them afterwards.
- Loosen the four screws that fix the unloading pipe (ref. Q - pic.4) and take the pipe away after having completely removed the bag as described above.
- Loosen the three screws at the back of the central body where you can find the engine bearing flange (ref. R - pic. 13) and turn of 120° by placing the central body as in picture 13, then reinsert the three screws and tighten them.
- Place the blowing opening at the end of the central body (ref. O - pic. 13) and fix by means of the four screws that will be needed for the pipe.
- Pay attention to the cable of the microswitch by rotating the central body.

IMPORTANT !!!

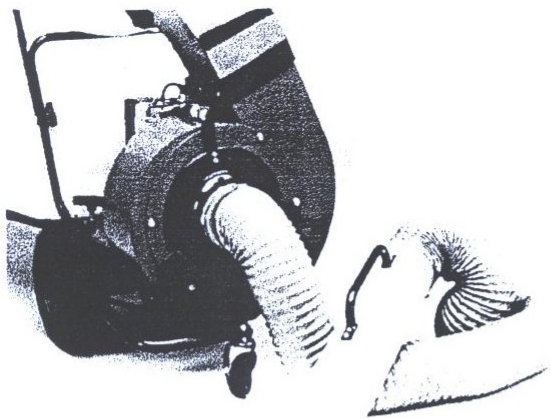
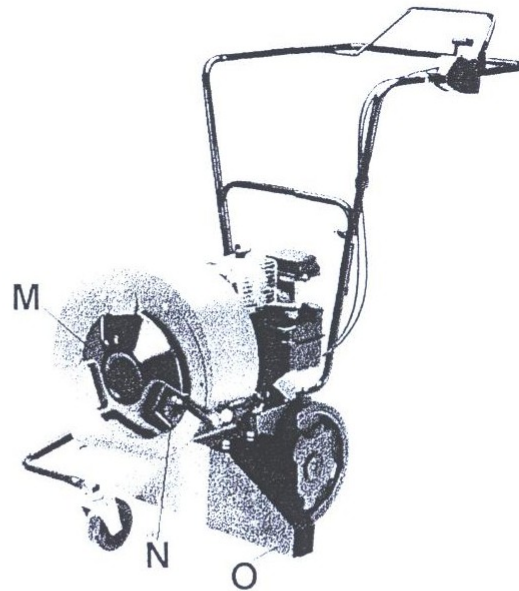


IF THE LEAF-SUCKER IS USED IN VERY DUSTY PLACES IT MUST BE PERIODICALLY CLEANED BY REMOVING THE DUST. THE OBSTRUCTION OF THE BAG DUE TO THE DUST CAN CAUSE ITS BREAKING. DO NOT ASSEMBLE THE BAG IF IT IS WET. CARRY OUT THE OPERATION ONLY WHEN THE ENGINE IS SWITCHED OFF.

-Pic. n°10-**-Pic. n°11-**

MAINTENANCE

- For changing the oil and other maintenance operations on the engine (spark plugs, air filter, regulations), refer to the engine manual provided.
- Clean periodically the bag from the dust. Do not assemble the bag if it is wet

-Pic. n°12-**-Pic. n°13-**

WARRANTY

The machines and accessories are guaranteed for 12 months, with the exception of electrical parts or parts in rubber. The manufacturer shall replace pieces recognised as defective free of charge. Labour and transport shall be at the expense of the purchaser. The warranty doesn't apply if the guaranteed parts are defective due to wrong installation or tempering inaccurate use or carelessness. Warranty request must be made through dealers authorised by the manufacturer.

With regard to materials not of our manufacture, with special reference to the motor, the rules laid down by the respective manufacturers shall apply. Any request for repair shall therefore be directed to the specific service centres in the respective areas.

For any problems or repair, contact the dealer where the machine was purchased.

SAFETY TESTS AND CERTIFICATION

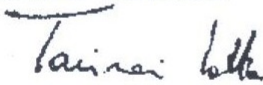
Declaration of CE conformity in accordance with EEC directive 89/392 and amendments

BENASSI SpA 40010 San Matteo della Decima BO Italy Via Lampedusa n°1 Tel. (051) 682.46.56

We hereby declare that the machine conforms with the essential requirements for health and safety in accordance with EEC Directive 89/392 and amendments.

LEAF-SUCKER TYPE MODEL AF 200 SL

For verification of the conformity with the above-mentioned Directives reference has been made to the following: Standard PREN 709/94 dated 16/06/94 for power hoes and engine-driven cultivators, documents N67 CEN TC 144/WG4 April '94 for alternative and rotating power mowers PREN 836/92 update 92 for lawn mowers. For garden vacuum-bags, reference EN 294

CHAIRMAN OF THE BOARD

S.Matteo della Decima li 08 -09 -1995

RESULTS AND TESTS**LEAF-SUKER TYPE MODEL AF 200 SL**

Acoustic pressure to the operator: LAeq = 82,3 dB (A)

Vibration to handles with weighting ISO.5349 value 5,2 m/sec²

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