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**BENASSI**<sup>®</sup> S.p.A.

**OPERATION AND  
MAINTENANCE MANUAL  
SERIES  
HIGH GRASS MOWER  
FT 155**



01/10/2008

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## **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:

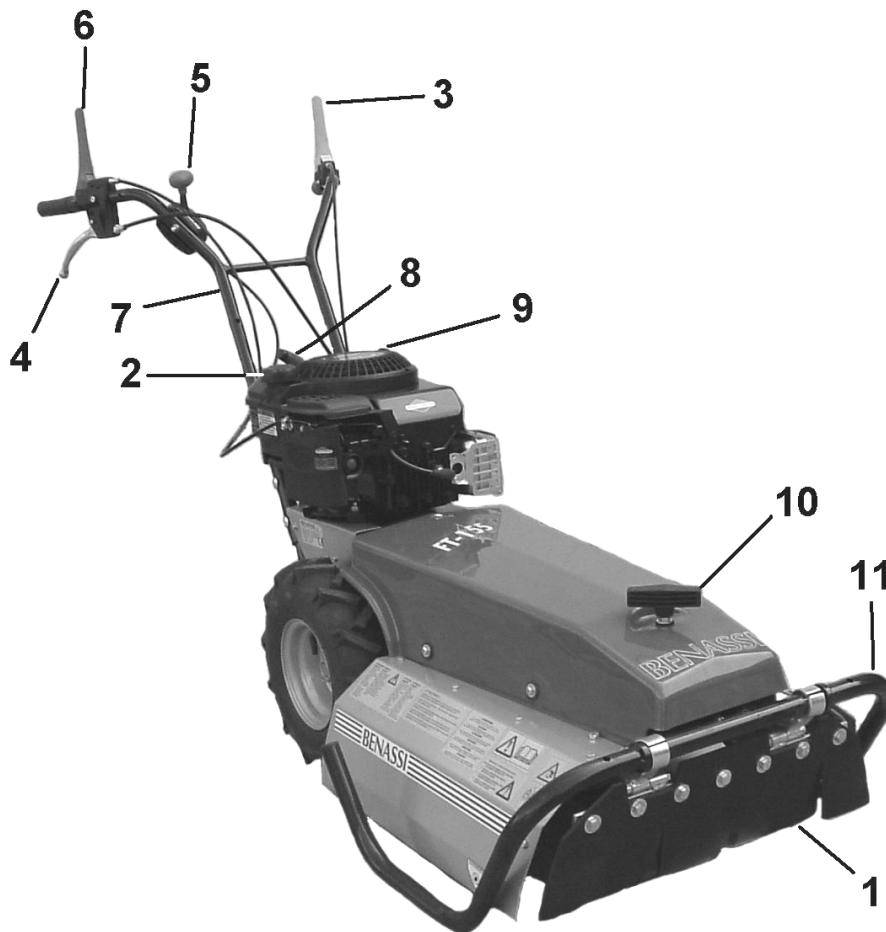


### **CAUTION**

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

**LIST OF MACHINE PARTS**

1. Front protection
2. Fuel cap
3. Blade engagement lever
4. Wheels release lever
5. Accelerator lever
6. Drive control lever
7. Handlebar
8. Recoil starter
9. Oil filling cap
10. Cutting height adjustment
11. Bumper frame



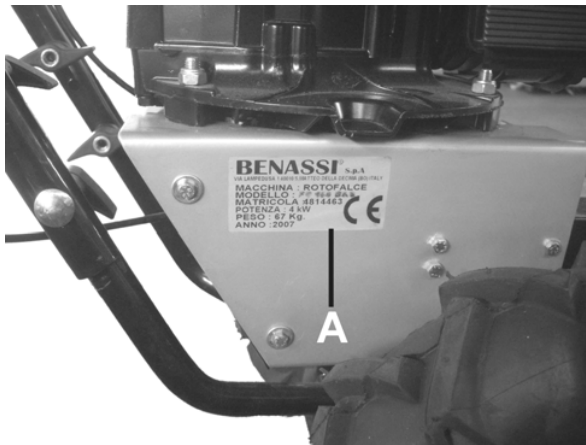
## IDENTIFICATION AND TECHNICAL CHARACTERISTICS

For the engine features see the engine instruction booklet delivered with the machine.

- Fuel for 4-stroke motor: unleaded petrol
- Start-up with self-winding cord
- Dry air filter
- 4-STROKE MOTOR OIL : AGIP DIESEL SIGMA SAE 30 0.6 l
- 1 forward gear with drive control lever on the handlebar
- Blade engagement lever on the handlebar
- Cutting height adjustment

For machine identification (serial number, motor, weight, power) read the data plate as shown in the photo. See Fig. 1, Ref. "A".

**-Fig. n°1-**



**-Fig. n°2-**



## PACKING AND TRANSPORT

- ◇ WIDTH: 61 cm
- ◇ DEPTH: 110 cm
- ◇ WEIGHT: 63 cm

- ⇒ The machine is delivered in its own packing.
- ⇒ After unpacking the high grass mower, fasten the handle to the handle support using the screws provided.
- ⇒ For transporting convenience, the handle may be disassembled by unscrewing the two knobs (Ref. "A" Fig. 2).
- ⇒ The machine is delivered with oil in the gearbox.


## SAFETY RULES

- Please read carefully the operation and maintenance manual supplied with the machine.
- Persons under 16 years of age are prohibited from operating the machine.
- The operator is responsible for all damages as the machine is under his control.
- Empty the tank of petrol should the machine be transported.
- Should the machine be left unattended, ensure that it cannot start up again.
- Never work in bare feet. Wear sturdy shoes and long pants.
- ⚠ Before using the machine, inspect the area to be cut and remove sticks, stones and any other extraneous objects.
- Before starting the machine, ensure that there is a 10 meter radius of free space around the machine, using the front protection guard. Without this guard, the free field should be increased to 50 mts
- Dry petrol leaks.
- Please check the oil regularly.

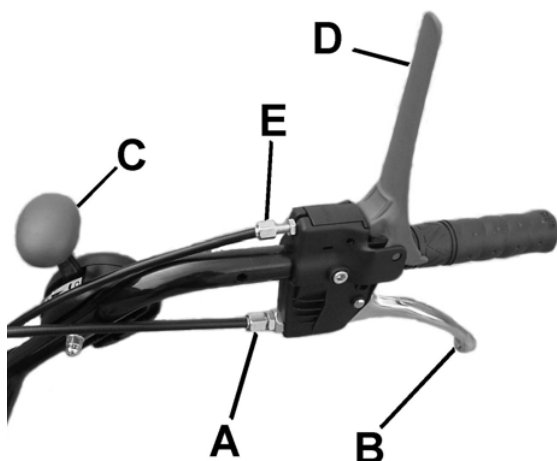
- Always add fuel to the tank with the motor off. The supply and/or transfer of fuel must always take place outdoors, away from flames or heat sources. Do not smoke during this operation.
- Before using the high grass mower, the operator must learn how to shut off the motor quickly, and how to utilize the machine and the controls correctly.
- Do not operate the motor where carbon monoxide exhaust may accumulate.
- Never utilize the machine incomplete of or without the relative safety device.
- Never disassemble or clean the blade with the motor running.
- Caution! Never work on slopes exceeding 50%.
- Caution! Always use the front yellow protection; it should be removed only when the material to cut is at a height of more than 35 cm.
- Cutting shrubs with a diameter of more than 2 cm is not advised.
- The manufacturer shall not be held liable for any damages resulting from the failure to comply with these rules.
- During blade maintenance and cleaning, the spark plug cable must be disconnected.

## STARTING AND STOPPING THE MACHINE

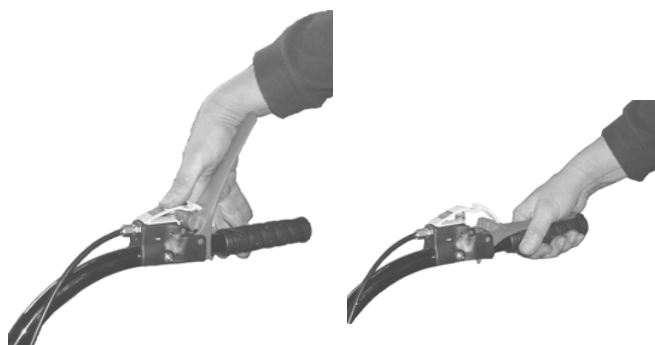
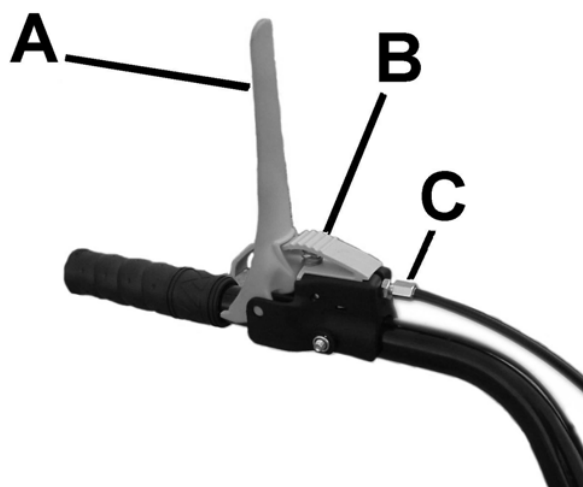
Whenever the motor is started up, first make a careful check of the following:

- Check that the tank is filled with fuel and the cock is open (for the version with Honda engine).
-  Check the motor's oil level.
- READ THE ENGINE INSTRUCTION AND MAINTENANCE MANUAL.
- Bring the gas lever to the "START" position for the version with Honda engine.  
Bring the gas lever to the "MAX" position for the version with B&S engine (Fig.3 Ref."C").
- While starting up the machine it is not allowed to press the levers on the handlebar (Fig.n°3 Ref."B" and "D" and Fig.n°4 Ref."A").
- Start the motor by pulling the self-winding cord (read carefully the motor instruction manual under "START-UP").
- Put back the accelerator lever in the intermediate position (Fig.3 Ref."C").
- To stop the machine bring the accelerator lever (Fig.3 Ref. "C") in the STOP position.

-Fig. n°3-



-Fig. n°4-



## OPERATING AND REGULATING THE MACHINE



### CAUTION:

Never operate at the same time the drive control lever (Fig.n°3 Ref. "D") and the wheels release lever (Fig.n°3 Ref."B").

- The FT155 machine has been designed to cut and clean very thick grassy and wooded areas.
- The machine is suitable for rugged terrain and for hilly and mountainous areas which do not, however, have a slope of more than 50%.
- The handlebar is height-adjustable. The adjustment can be done on the gearbox by adjusting the lowest bolt (Fig. 10 Ref. "A").
- Before starting work, adjust the cutting height by means of the cutting height adjusting knob (Fig. 6). This height varies according to the type of terrain, the height of the grass to be cut, the diameter of the shrubs and the sensibility of the operator.
- When both the blade and the machine start operation, it is advised to move very slowly with the machine at medium speed.
- To engage the blade press with the thumb the security button (Fig.n°4 Ref."B") and lower with the palm of the hand the blade engagement lever (Fig.n°4 Ref."A") keeping it pressed on the handlebar.
- To move the machine forward press down the wheels engagement lever (Fig.n°3 Ref."D") and keep it pressed on the handlebar.
- To stop the machine moving forward release the lever (Fig.n°3 Ref."D").
- To stop the cutting blade release the lever (Fig.n°4 Ref."A").
- To freely move the machine backwards or forwards release the wheels engagement lever (Fig.n°3 Ref."D") and pull the wheels release lever (Fig.n°3 Ref."B").
- If the driving belt slips, loosen the register on the lever (Fig.3 Ref. "E"), taking care to leave a space of approximately 5 mm before the clutch engagement.
- Please keep the belt properly adjusted, as explained in use and maintenance.

### Adjustment of the blade pulley belt tightener :

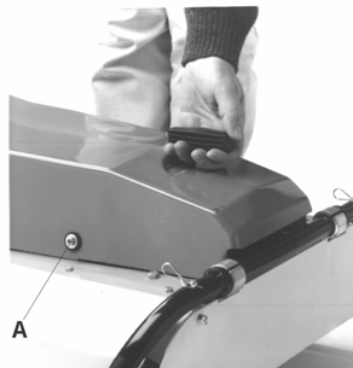
1. Remove the front hood by unscrewing the four screws that fasten the cover (Fig. 6 Ref. "A").
  2. Remove the bearing protection when the engine is switched off.
  3. Press the blade engagement lever (Fig. 4 Ref. "A").
  4. Adjust the belt tension (Fig. 8 Ref. "A") with the register (Fig.8 Ref. "A") after loosening the two nuts blocking the hexagonal pipe, then move the group into the right position.
  5. Lock the two nuts and check that in the braked position the cable is free (Fig. 9 Ref. "A").
  6. Make sure that the cable (Fig.8 Ref. "D") that operates the blade is not under tension. In case it is under tension adjust the register situated under the cover ((Fig.8 Ref. "C").
- If the machine has been subjected to heavy use, the discharge may tend to jam. If this happens, the operator should: 1) raise the cutting height and 2) reduce the working section if the grass is too high or thick.
  - If the high grass mower is used near a wall or sidewalk, take care not to bang the blade as this could lead to damage to the machine.



### CAUTION

It is advised not to keep the motor running when the machine is not being used for its specific purpose.

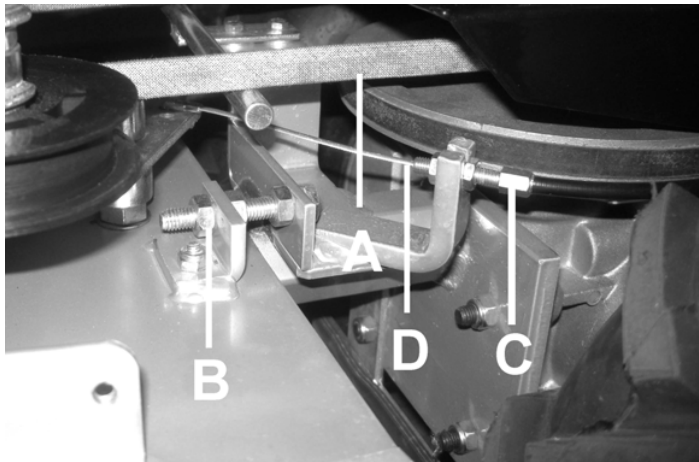
-Fig. n°6-



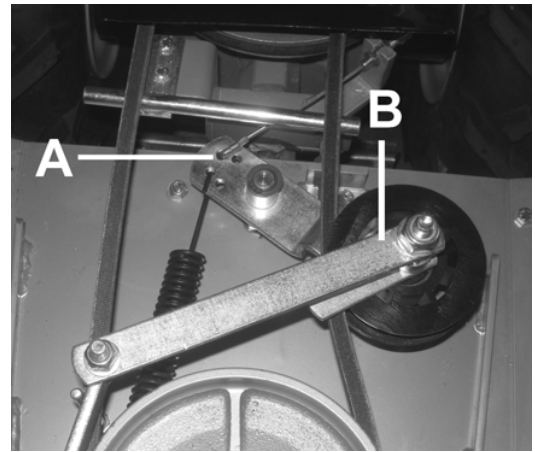
### **MAINTENANCE**

- To change the oil or to perform other maintenance operations on the motor (spark plugs, air filter, adjustments), refer to the motor instruction manual provided.
- N.B. To unscrew the oil drain cap of the motor, remove the rear cover (Fig.2 Ref. B).
- Make a regular check of the oil in the gearbox (Fig. 10 Ref. "C").
- Every 200 hours change the oil completely by unscrewing the oil drain cap (Fig. 10 Ref. "B"). Empty out and screw back the cap. Fill the box from cap "C" (Fig. 10) until the oil level just reaches the hole. Use only recommended oil.
- For any servicing, especially during the warranty period, seek the assistance of a dealer-authorized repair shop. Make a regular check that screws are tightened, specifically the screws fastening the bar to the relative support.
- When the blade does not cut adequately, it should be disassembled, sharpened and balanced. An unbalanced blade may damage the machine with vibrations.

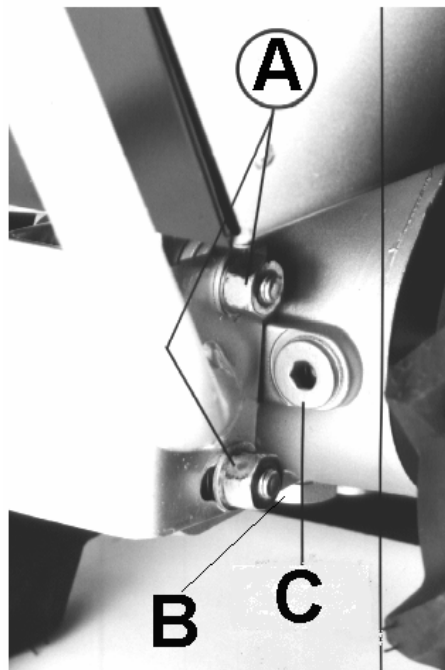
**-Fig. n°8-**



**-Fig. n°9-**



**-Fig. n°10-**





### **WARRANTY**

The machines and accessories are guaranteed for 2 years, with the exception of electrical parts or parts in rubber. The manufacturer shall replace pieces recognized as defective free of charge. Labour and transport shall be at the expense of the purchaser. Warranty requests must be made through dealers authorized 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 requests for repair shall therefore be directed to the specific service centres in the respective areas.

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

### **SAFETY TESTS AND CERTIFICATION**

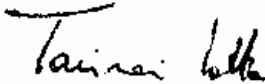
**BENASSI®**

Via Lampedusa 1 - 40017 San Matteo della Decima (BO) Italy

We hereby declare that the machine conforms with the essential requirements for health and safety in accordance with Directive 98/37/CE.

TYPE **HIGH GRASS MOWER**MODEL **FT 155 B - FT 155 H**

For verification of the conformity with the above mentioned Directive reference has been made to following regulations: EN ISO 12100-1 ; EN ISO 12100-2 ; EN 12733/2001 for lawn motor mowers.

**CHAIRMAN OF THE BOARD**

S. Matteo della Decima, 27/07/2002

**RESULT AND TESTS**

Noise level recorded: Lwa = 93 dB (A)

Noise level allowed: Lwa = 95 dB (A)

Testing conditions at a height of 1.6 m at handle midpoint

Vibration to handles with weighting ISO.5349 value 1.84 m/sec<sup>2</sup>**BENASSI® SpA**VIA LAMPEDUSA 1  
40017 S. MATTEO DELLA DECIMA (BO)  
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