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BENASSI[®] SpA
OPERATION AND
MAINTENANCE MANUAL
SERIES
HIGH GRASS MOWER
FT 155



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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:

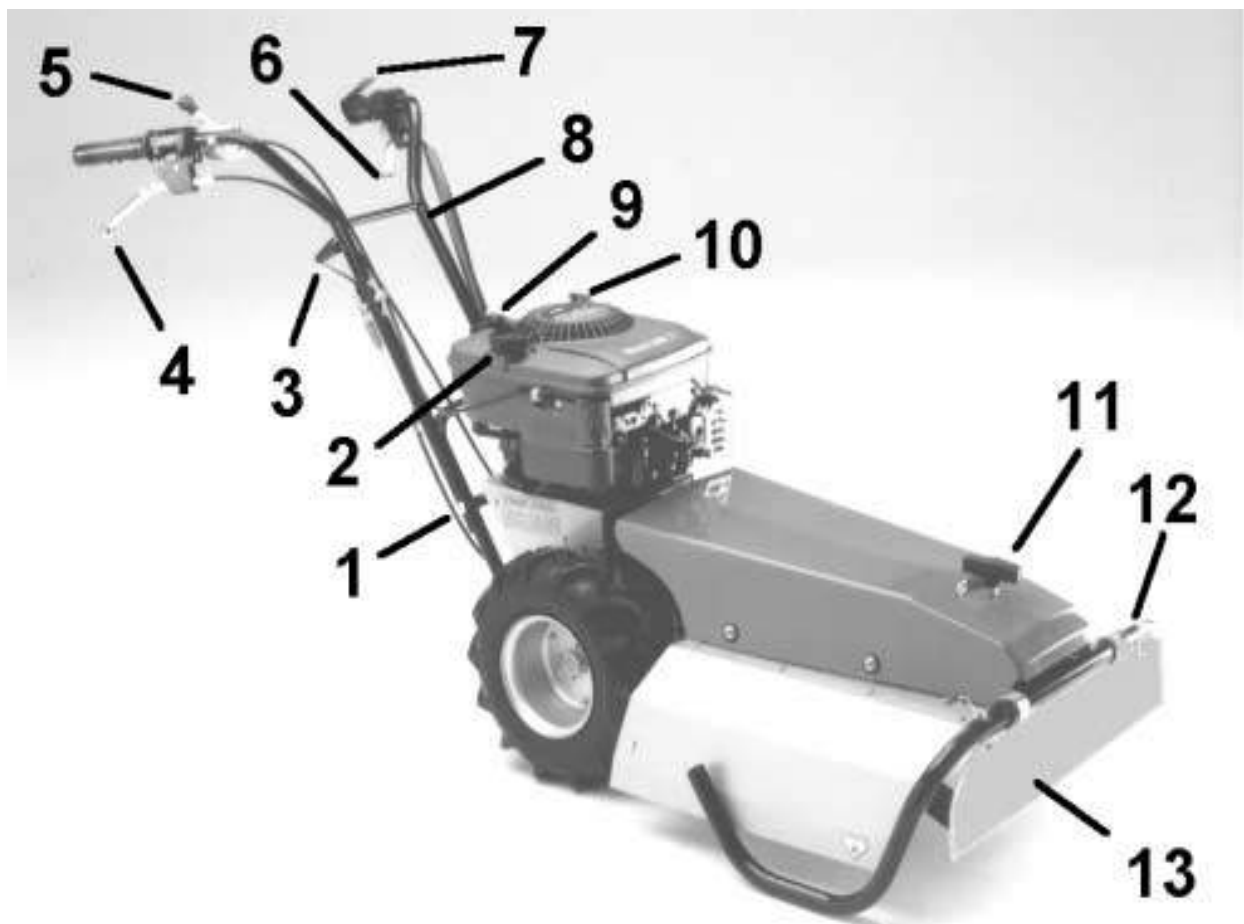


CAUTION

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

LIST OF MACHINE PARTS

1. Handle adjustment
2. Fuel cap
3. Blade engagement
4. Wheel release lever
5. Accelerator hand lever
6. Clutch lever
7. Motor stop lever
8. Handle
9. Pull start
10. Oil cap
11. Cutting height adjustment
12. Bumper frame
13. Front protection

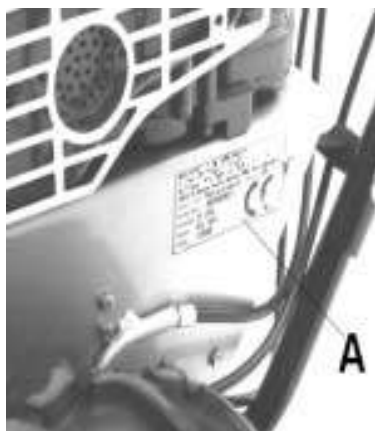


IDENTIFICATION AND TECHNICAL CHARACTERISTICS

Model : FT 155 Weight: 67 kg Motor: 4 stroke Make: BRIGGS & STRATTON Model: DIAMOND Swept volume: 190 cc. Max. power to driving shaft: 5.5 HP (kW 4)	Model : FT 155 H Weight: 68 kg Motor: 4 stroke Make: HONDA Model: GXV 140 Swept volume: 135 cc. Max. power to driving shaft: 5 HP (kW 3,7)
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- Fuel for 4-stroke motor: Petrol 100/130 Octane
- 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 clutch lever
- Blade engagement lever on handle
- Electrical safety stop above hand clutch
- Height-adjustable handle
- 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, and adjust the height to the most comfortable position.
- ⇒ Fit the lever for the blade engagement-disengagement on the handlebar:
- ⇒ After unpacking the machine, screw on the nut with washer "B" and register "C" as shown in Fig. 7. Register "C" should be screwed on all the way. Ensure that the blade engagement lead "D" is not tightened when the blade is disengaged.
- ⇒ If it is tightened, move the register of the tightening pulley under the hood. The knob on lever A should be fitted from the outside part of the handlebar.
- ⇒ 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

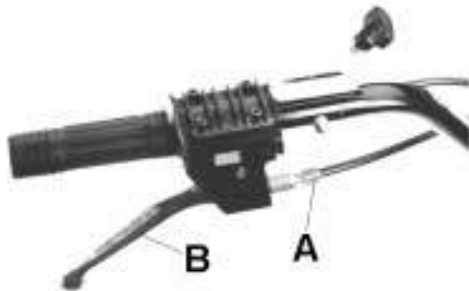
- Please read carefully the operation and maintenance manual supplied with the machine.
- Persons under 16 years of age are prohibited from operating the machine.
- The operator is responsible for all damages as the machine is under his control.
- Empty the tank of petrol should the machine be transported.
- 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 5-meter radius of free space around the machine.
- Dry petrol leaks.
- 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

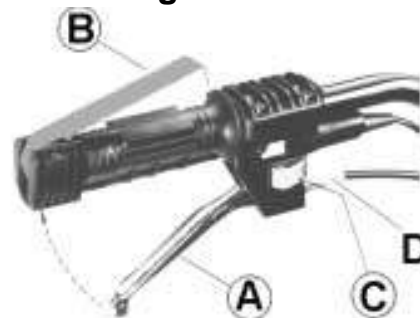
Whenever the motor is started up, first make a careful check of the following:

- Check that the tank is filled with fuel and the cock is open.
- Check the motor's oil level.
- REFER TO THE MOTOR INSTRUCTION AND MAINTENANCE MANUAL
- Bring the gas lever to "START" position (Fig. 3)
- Squeeze the clutch lever "A", push down the " Motor stop" lever "B", and block them with safety button "C".
- Start the motor by pulling the self-winding cord (read carefully the motor instruction manual under "START-UP"
- With the motor running, gently engage the blade.
- After releasing the clutch lever, the machine is ready to operate.
- The machine is stopped by moving the STOP lever (red) (Fig. 4 Ref. "B") to the resting position.

-Fig. n°3-



-Fig. n°4-



OPERATING AND REGULATING THE MACHINE

- 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 handle is height-adjustable in two positions. The first adjustment is made on the handle support by selecting the appropriate hole (Fig. 2 Ref. "A"); the second adjustment is made 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 to be cleaned and the feel 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.
- If the driving belt slips, loosen the register on the lever (Fig. 4 Ref. "D"), taking care to leave a space of approximately 5 mm before the clutch engagement.

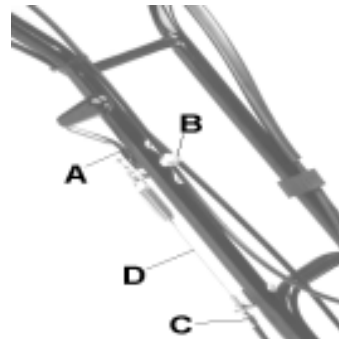
Adjustment of the blade pulley belt tightener :

1. Remove the front hood by unscrewing the four M6 screws that fasten the cover (Fig. 6 Ref. "A").
 2. Insert the blade engagement lever (Fig. 7 Ref. "A") so that the belt tightener (Fig. 9 Ref. "B") rests on the square bracket's vibration-damping pad.
 3. Adjust the belt tension (Fig. 8 Ref. "A") with the register (Fig. 8 Ref. "A") after loosening the two M10 screws blocking the hexagonal pipe (keeping the belt tightener resting on the square bracket's vibration-damping pad).
 4. Lock the two M10 screws and check that in the braked position the cable is free (Fig. 9 Ref. "A"), and that the belt tightener rests on the vibration-damping pad by means of the blade engagement lever register (Fig. 7 Ref. "C"). Also check that the belt tension is correct.
- 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.
 - To move the machine forward or back, squeeze the clutch lever (Fig. 4 Ref. "A") and release the wheels with the lever (Fig. 3 Ref. "B")

-Fig. n°6-



-Fig. n°7-



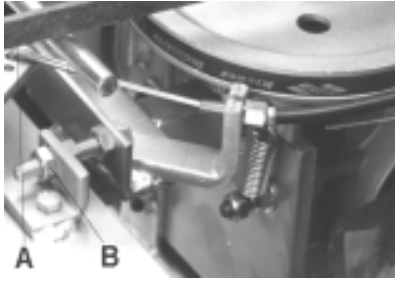
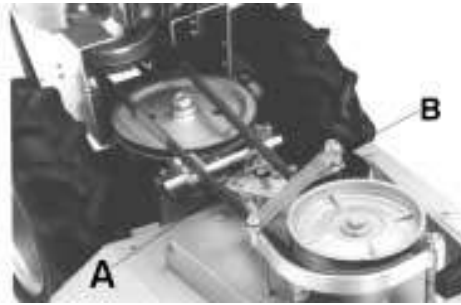
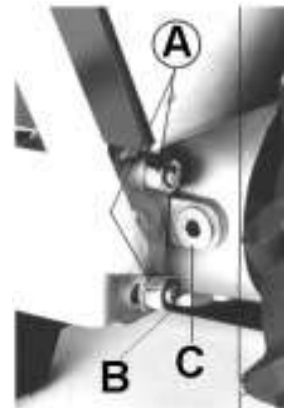
MAINTENANCE

- 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.



CAUTION

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

-Fig. n°8-**-Fig. n°9-****-Fig. n°10-**

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 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

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

BENASSI - Via Lampedusa 1 - 40010 San Matteo della Decima BO Italy

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

HIGH GRASS MOWER TYPE MODEL FT 155, FT 155 H

For verification of the conformity with the afore-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

Tassinari Lella

S. Matteo della Decima 01/04/98

RESULT AND TESTS

HIGH GRASS MOWER TYPE MODEL FT 155, FT 155 H

Acoustic pressure to the operator: LAeq = 78.1 dB (A)

Testing conditions at a height of 1.6 m at handle midpoint.

Vibration to handles with weighting ISO.5349 value 1.84m/sec².

BENASSI[®] SpA

VIA LAMPEDUSA 1
40010 S. MATTEO DELLA DECIMA (BO)
ITALY
TEL. 0039/051/820534 TELEFAX 0039/051/682.61.64