

BENASSI[®] S.p.A.

GB

USE AND MAINTENANCE

ROTARYMOWERS Versions FT 530 – FT 533



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INTRODUCTION

- ◆ Thanking you for preferring our product, You are welcome among our many confident customers.
- ◆ We are sure that the performances and the simplicity of use of this machine will give you any satisfaction.
- ◆ This machine is carefully built with high quality components, and if it will be properly maintained, it will last for long time, giving you very good performances.
- ◆ We have prepared this booklet to explain the basic rules for a safe use of the machine, and for the first maintenance.
- ◆ The most important safety rules are marked by this sign :



ATTENTION

Please follow them carefully, because the non-observance of these norms can be dangerous.

EXPLANATION OF THE MACHINE:

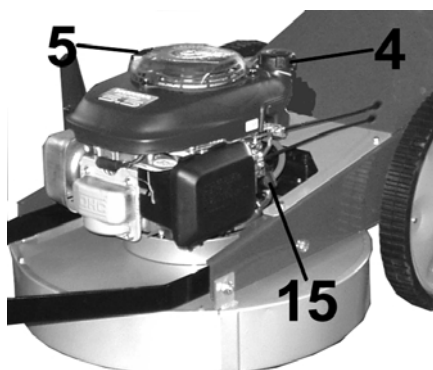
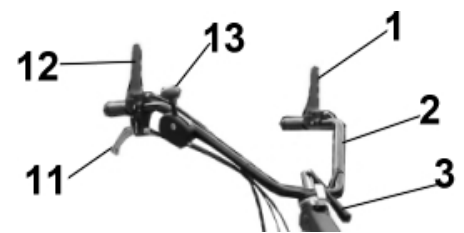
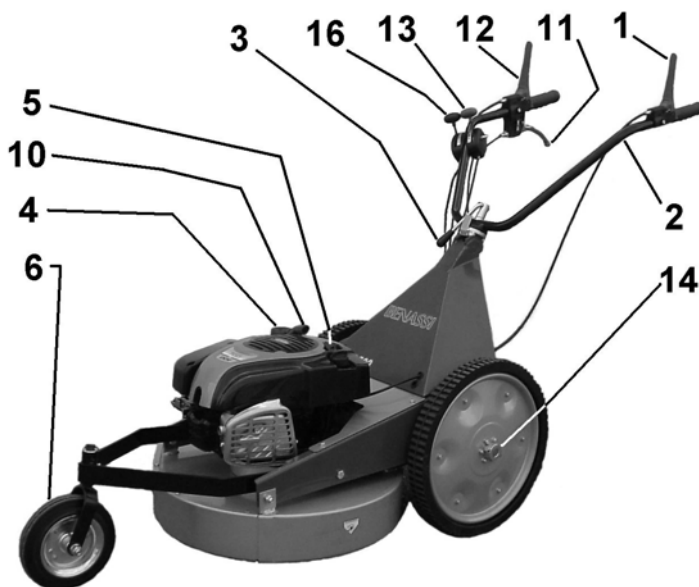
- 1) Motor Stop
- 2) Handle Bar
- 3) Handle-bar adjustment
- 4) Fuel Cap
- 5) Oil Cap
- 6) Front Wheel
- 7) Primer (only Briggs & Stratton engine)
- 8) Front guard.

- 9) Side Discharge Guard.
- 10) Recoil Starter.
- 11) Mowing Height Adjustment.
- 12) Drive control Lever.
- 13) Accelerator .
- 14) Wheels Shaft with Pin.
- 15) Gasoline Tap (only Honda engine).
- 16) 3 Speeds Gear Lever (FT 533)

version FT 533

Pict. n°1

version FT 530



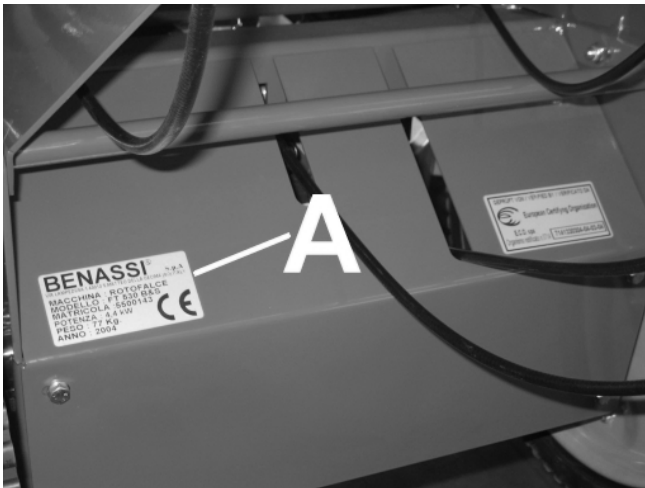
IDENTIFICATION CHARACTERISTIC TECHNIQUES

FOR THE ENGINE FEATURES SEE THE ENGINE INSTRUCTION BOOKLET DELIVERED WITH THE MACHINE.

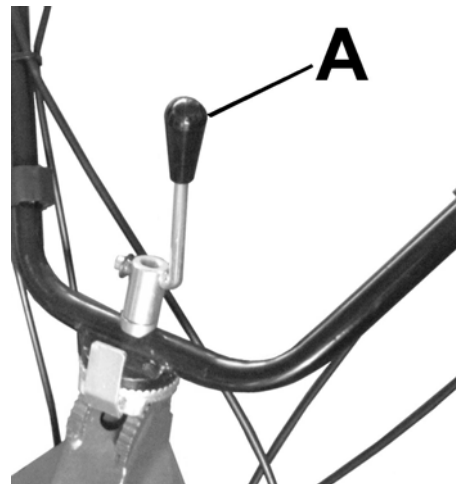
- Fuel : unleaded petrol
- Recoil Starter.
- Dry Air filter .
- Oil in the gearbox : AGIP Diesel SIGMA SAE 30 0,6 Lts.
- Max. Speed of the machine : (FT530) Speed 3 km/hour
- **(FT533)** : 1° speed:2,5 km/h; 2° Speed :3,2s km/hr; 3° Speed: 4,0 km/hr
- Safety electric stop on the handle-bar.
- Guidance handlebars can be adjusted in many positions (vertical and side adjustment)

The identification details of the machine (Code Number, Engine Number, Weight, Power), are listed in a little Number Plate, as shown in Pict. 2, ref. A

- Pict. n°2 -




- Pict. n°3 -

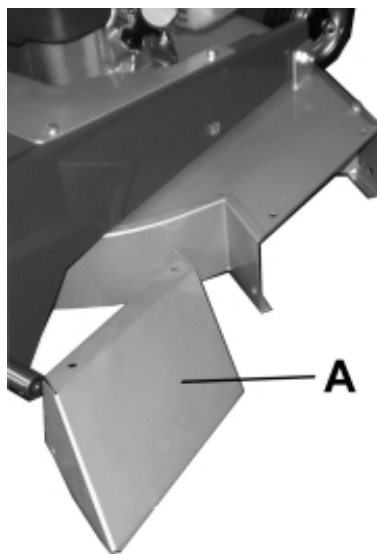


PACKING AND ASSEMBLING OF THE MACHINE

- ◇ Width: 118 cms.
- ◇ Depth: 66 cms.
- ◇ Height: 72 cms.
- The MACHINE is delivered packed IN CARTON BOX..
- After having removed the rotary mower from the box, fix the handle-bar to the support as shown in Pict.3 and adjust it to a comfortable position, then block it through the lever " Á.."
- Mount the side conveyer on the deck, as shown in Pict.4 , using the four bolts M8 included.
- The machine is delivered with oil in the gear-box.
- ATTENTION: THE NEW MACHINES ARE DELIVERED WITHOUT OIL IN THE ENGINE. Fill with Oil SAE30 the engine, through the inlet Pict.1 Pos. 5, and check the correct level (using the liner in the oil cap).
- After mounting the handle-bar, you should adjust the control-cables.
- The motor- stop and driving levers must be adjusted with the running engine (as mentioned in the next chapter)
- It is important to verify that the safety motor-stop lever, Pict.5 Pos. C, is properly working : when you release it, it should immediately stop the engine, and the blade (within 7 seconds). The engine is working only when you press the lever. You can adjust it, if necessary, through the screw Pos. D , Pict. 5.
- In the version FT 530 you can adjust the Power drive lever, Pict. 5, Pos..A, considering that the correct adjustment is when the machine starts to move, and the hand lever is around 30° from the vertical position. If necessary, you can adjust it , through screw Pos. F.

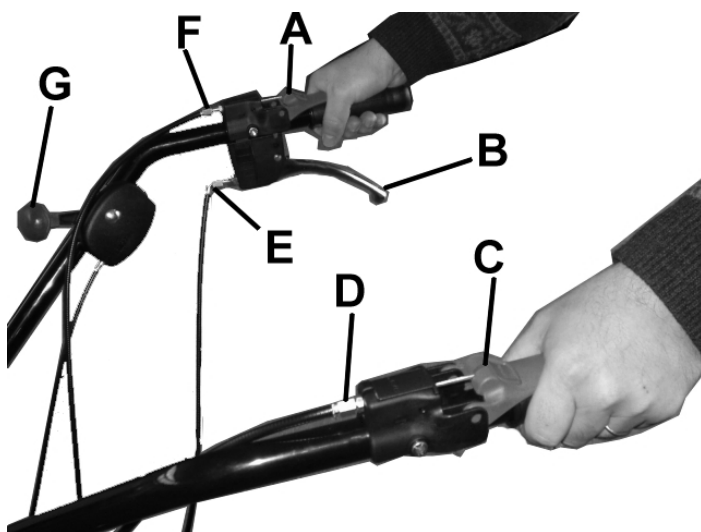
-  **WARNING!** When the Drive Lever, Pos..A Pict. 5 is completely pressed, the 2 little levers of the transmission Rif."A and" B" Pict.12 should keep a margin of 2 mms. Extra. You can adjust the cable on this position working on the screw, Pos."F" Pict. 5.
- The adjustment of the mowing height , through lever B, in Pict. 5, should be done with engine OFF. This lever is blocking the whole chassis in three different positions. You can adjust this cable, through the screw Pos. E in Pict. 5.
- The cable of the accelerator doesn't need any adjustment.
- Through the gear-lever (Pos." H" in Pict.5), you can change the speed. Please check that the central position "2", corresponds to the quicker speed. If not , you should adjust the cable , on the same side of the gear-box

-Pict n°4 -

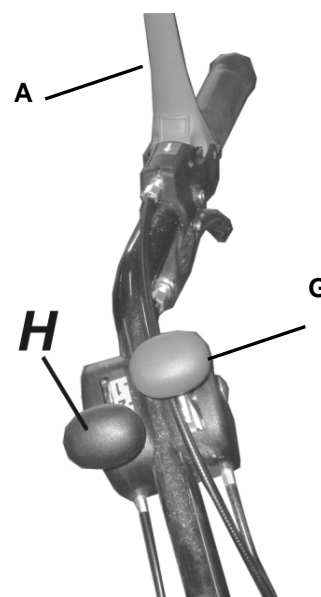


- Pict. n°5-

Versione FT 533



Versione FT 530



SAFETY RULES



THE OPERATOR MUST ALWAYS WEAR NOISE-PROTECTIONS FOR THE HEARS.

- **Read carefully this User's manual, before using the machine.**
- It is strictly forbidden using the machine to boys under 16 years.
- The operator is responsible of the damages caused to other people.
- When the machine must be transported on a vehicle, the fuel tank should be absolutely EMPTY.
- Before leaving the machine, make sure that it could not accidentally start.
- Don't work without wearing strong shoes, and long trousers.
- Please inspect the area where you are going to work, and remove any branches, stones and other obstacles which could be dangerous if thrown away.



- **The operator should work with a minimum free area of 15 metres all around the machine, using the front protection guard. Without this guard, the the free field should be increased to 50 mts**

- Avoid the leakage of gasoline , and keep clean the tank area.
- Fill the tank with fuel only in open spaces, and far from fire or heat.. Don't smoke during this operation.
- Before using the machine, it is necessary to learn to quickly stop the engine, and to correctly use the main controls.
- Don't let the engine run in closed spaces, where the exhaust – gas could be accumulated, creating a dangerous level of carbon monoxide.
- Never remove or modify the safety devices fitted on the machines, even if sometimes they are limiting your actions .
- Don't try to clean or touch the blade with the engine running.
- Attention! Don't work in sloping ground, over 50% .
- Attention! Use the machine with the front protection guard; it could be removed only when you have to mow grass over 35 cms of height.
- You can't cut bushes and branches thicker than 2 cms.
- The manufacturer is not responsible for accidents caused by non-observance of these rules .

During the operations of maintenance and cleaning of the machine, you should disconnect the spark-plug cable.



- **Keep your hands and feet far from the moving parts of the machine.**
- It is very dangerous starting the engine with the air filter open or disassembled – this could damage the engine, and cause fire.
- The engine is provided of an efficient silencer – don't modify it, and replace it with a similar part, when it is necessary.
- After bumping an obstacle, it is necessary to stop and to check eventual damages to the machine. Stones, plastic or metal objects blocking the blade should be carefully removed. In case of strange vibrations, check if the internal part of the mowing deck is free, In case the vibrations insist, please contact a technician.
- You should maintain the machine in a good and safe condition. Please fix or replace immediately any lever or device eventually damaged.
- Don't use the machine at extreme temperature (below the 10°C).
- Don't handle the machine when the engine is running.
- Please drive carefully, and reduce the speed in sharp turns, specially when you are in sloping ground.
- Working in hard sloping ground, don't drive vertically (up-down) the machine, but rather from left to right, and back, reducing the risk of turning off.
- Over 20% of sloping ground, there is a strong risk of damaging the engine, because the oil level will not allow an acceptable lubrication.
- Don't drive the machine on sandy or stony roads, with the engine running. You can transfer the machine just pushing it, with the engine off.
- Please mark with safety stripes the working area before starting the mowing operations, prohibiting the access of people during the job.

TRANSPORT

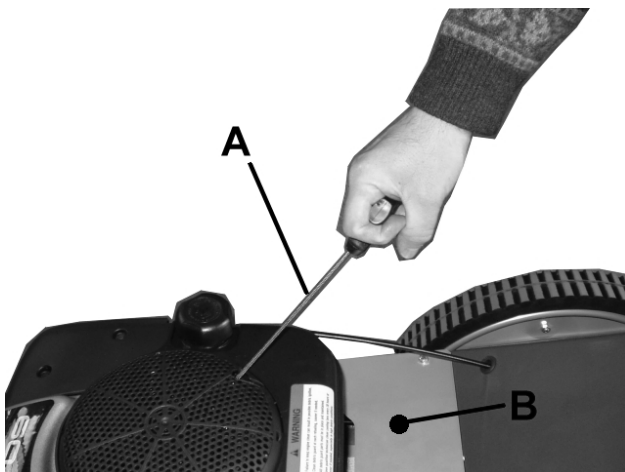
- It is very easy pushing the machine – the free wheels transmission and the front support-wheel give a very smooth move.
- For an easier transport in car boot, you can turn off the handle-bars, after releasing the blocking screw-lever (see Pos. A in Pict.3).

STARTING, RUNNING AND STOPPING THE MACHINE

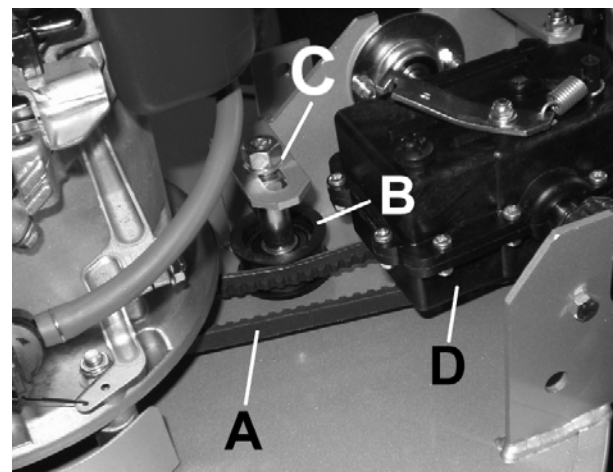
Before starting the engine, you must do the following operations:

- Check the fuel level in the tank, opening the fuel cap.
- Check the oil level in the engine. **IMPORTANT !** The New machine is delivered without oil.
- **READ CAREFULLY THE BOOK "USE AND MAINTENANCE OF THE ENGINE"**
- Push the "PRIMER" for 5 times (only with BRIGGS & STRATTON engine) as shown in Pict..1 Ref.7
- Move the accelerator lever to the position Max (B&S engine) or position START (HONDA engine) (Pict. 5 Ref.G)
- Push down and hold the safety " Motor Stop" lever- Pict.5 Ref C .
- Pull the handle of the starting rope Pict. 6 .
- After starting the engine, move the accelerator to the position "MAX" (with Honda engine).
- In the Types FT530 and FT533, after pushing the clutch lever (Pos. A in Pict.5), the machine starts moving.
- The Type FT 533 has a 3 speed gear box, controlled by a lever on the right hand side of the handle-bar. You should smoothly move the gear lever (Pos. H in pict. 5), with the engine running, but the machine standing, (before pushing the clutch lever A).
- You can STOP the engine just releasing the RED MOTOR STOP lever (Pos. C).

-Pict. n°6-



-Pict. n°7-



WORKING AND ADJUSTMENTS

- The machine FT530 is designed for an heavy duty work, mowing any kind of grass and plants also in wild areas. The easy adjustment of the mowing height and the possibility of removing the front guard are very helpful for a professional work.
- The machine is suitable for working in tough conditions, on hills and mountains, but without exceeding 50% in sloping grounds.
- The handle bar could be turned at 360°, and adjusted in any position, after releasing the blocking lever (Pos. A in Pict.3).
- Through the Hand-lever Pos. B in Pict. 5, you can easily adjust the mowing height. The mowing height should be adjusted according to the kind of grass, the ground conditions, and the needs of the operator.
- For the first minutes after starting the machine, keep the engine at a medium speed, and be careful and slow in doing the first manoeuvres.
- When the transmission belt is skidding, and the wheels are not turning, with the clutch lever on (Pos. A in Pict.5), you should adjust the belt-tightener (Pos. B in Pict.7).
- In any case, make sure that the belt (Pos. A in Pict.7), should not be too tight.

FREE WHEEL BLOCKING

- The wheels are blocked through two rings at both ends of the transmission shaft. One of these rings is provided with a pivot and can be fixed in two different positions:
- **Pivot position towards the outside (picture D):** in this position the wheel is free to turn, this produces a differential effect and helps the machine while moving forward in a curve.
- **Pivot position towards the inside (picture A):** in this position the wheel is blocked to the shaft so that the differential effect is lost. In this way, however, if the machine moves on a downhill ground it follows the throttle control without getting an exaggerate speed.
- To change the position of the ring it is necessary to unscrew the bolt and then screw it tight again till it is completely blocked (pictures B+C).

Foto A



Foto B



Foto C



Foto D

**ADJUSTMENT OF THE TRANSMISSION BELT.**

1. After unscrewing the 4 screws, remove the front guard (Pos. B in Pict.6).
2. Loosen the nut Pos .C in Pict. 7, using a spanner size 17, and let the screw supporting the belt-tightener (pos. B in Pict.7), until the belt is properly tight.
3. Block again the Nut (Pos. C in Pict 7) in the correct position

The adjustment of the belt-tightener should be regularly done, and the transmission belt should be always perfectly aligned, and tight.

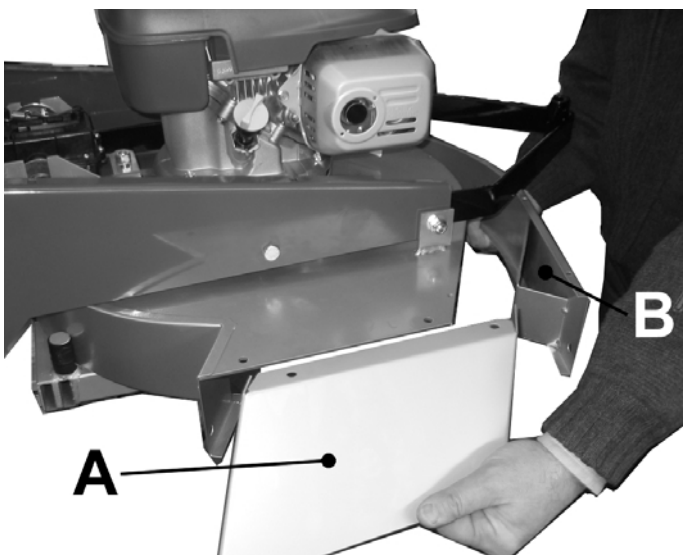
- For the adjustment of the driving levers on the handlebar, and the relative cables, please check the second Chapter " PACKING AND ASSEMBLING".
- For mowing very high and strong grass, you can remove the side conveyor (Pos.A in Pict.8), and also the front guard (Pos. B in Pict.8), after unscrewing the fixing screws. Before doing this job, please make sure that the engine is off, and the spark plug disconnected.
- **IMPORTANT !** The operator must be aware that the machine at work could throw out stones and other dangerous things. He should always make sure that the working area is free, for a minimum radius of 50 metres in any direction .It is recommended to delimit the working area with safety stripes,and signals of danger.

- Working in extreme conditions, with very high and strong grass, it could happen that the blade is blocked by the grass. In this case, you can increase the mowing height, and reduce the working width of each passage.
- If you need a “ Mulching ” effect, you should leave the mowing deck closed, with the protection guards mounted.
- When you are driving the machine near a wall or a stoned path, be very careful, because it could damage the blade.
- For moving the machine Forward and Backward with the engine OFF, please don't push the clutch lever (Pos. A in Pict.5).
- The front little wheel is normally turning at 360°, and it is mounted with a pin (included), as shown in Pict. 9, Pos. A. In case you want it fixed, you can block it, mounting the pin as in Pict.9, pos.B.
- The machine must be always used in the full respect of the safety rules listed in this manual.
- It is recommended to use the machine in the daylight, or with good artificial lighting.

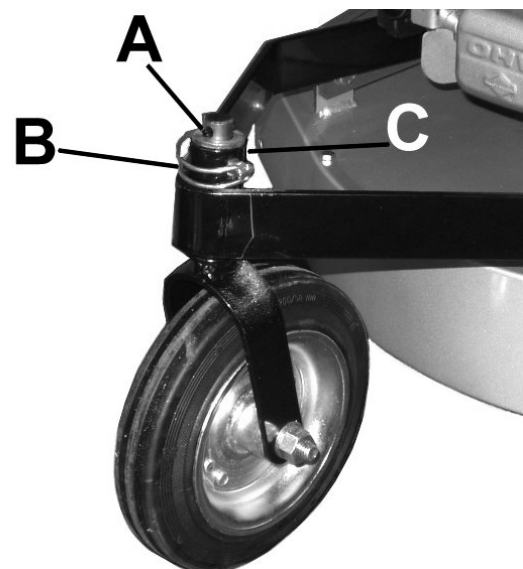


IMPORTANT: Don't leave the engine running, when the machine is not working .

Pict. n° 8



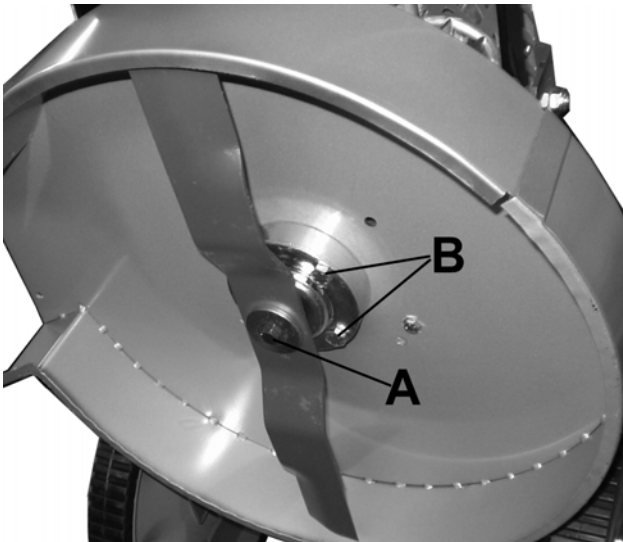
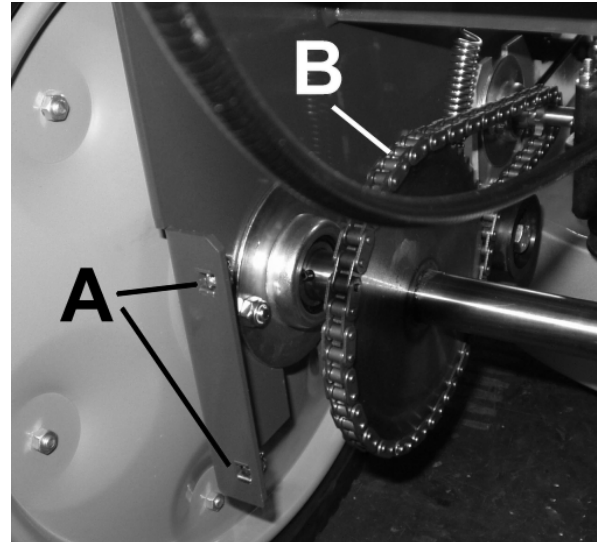
Pict. n°9



MAINTENANCE

- When changing oil and doing the normal engine maintenance (spark-plug, air-filter , etc.) carefully follow the Engine manual delivered with the machine.
- Before doing any service operation, STOP the engine, and disconnect the spark-plug.
- Keep clean the air conveyer on the engine.
- The gear-box (Pos. D in Pict.7), is closed in oil, and does not need any maintenance. In case of problems, please contact the dealer.
- For any technical assistance, specially during the guarantee period, it is recommendable to apply the specialized workshop where you bought the machine.
- You should regularly check that all the screws are tight screwed, giving special attention to the screw blocking the blade (Pos. A in Pict.10), and to the 4 screws of the blade-support (Pos. B in Pict.10).
- It is very important to keep the blade well sharpened (it should be disassembled and sharpened every 30 working hours). A bad sharp of the blade can reduce the efficiency of the machine of 25 –30%.
- It is important to check also the correct balance of the blade, in order to avoid the risk of strong vibrations, which could damage the machine.
- When necessary, replace the blade using only and strictly original spare parts.
- **PERIODICAL MAINTENANCE TO BE DONE AT LEAST ONCE A YEAR:**
- After removing the rear protection guard, unscrewing the 4 screws fixing it to the chassis, (Pos. A in Pict.11), you can grease the chain (Pos. B in Pict.11), using spray grease.

- Also the front wheel should be greased, through the greasing hole, (Pos. C in Pict.9).
- Lubricate with grease the wheel-hubs , after removing the wheels from the shaft, unscrewing the screw (Pos. 14 in Pict.1),and leave some grease on the bearings.
- All the control cables should be lubricated, adding grease into the sheathing.
- Carefully cleaning all the machine, removing dust and mowing rests from the internal deck. Don't use high pressure cleaning machines, better a brush or an air compressor.

-Pict n°10 -**- Pict. n°11-****Pict. N°12**

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

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 ROTARY MOWER TYPE MODEL FT530, FT530 H, FT533, FT533 H

The machine is complying the Standard 2000/14/CE, confirmed by the regulation N° 262 dated Sept. 4th, 2002.

Type of Machine : LawnMower, according to the specification n.32, of the attached 1 Dir. 2000/14/CE.

Procedure applied for checking the conformity : Attached VI, Dir. 2000/14/CE, Procedure 2.

Checking Institute n. 0714: ECO S.p.A. Via Granarolo, 62 48018 Faenza (RA) Italy.

Mowing Height : 53 cms.

CHAIRMAN OF THE BOARD

S. Matteo della Decima 08/05/2006

RESULT AND TESTS**HIGH GRASS MOWER TYPE MODEL FT530, FT530 H, FT533, FT533 H**

Acoustic pressure to the operator: LpA = 86 dB (A) without front guard.

Noise Level recorded: Lwa 97dB (A)

Noise level allowed: Lwa 100 dB (A)

Vibration to handles with weighting ISO.5349 value 8,19m/sec².

BENASSI[®] S.p.A

Via Lampedusa 1
40010 S. MATTEO DELLA DECIMA (BO) - ITALY
TEL. 051/820511 TELEFAX 051/682.61.64
Web: www.benassi.eu e-mail: benassi@benassispa.it

Timbro Rivenditore