

MECCANICA BENASSI SPA

MOTORHOE

USER'S MANUAL

RL 7 2+1 - RL 7 Monospeed



READ THIS MANUAL CAREFULLY

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PRINTED IN ITALY

1 - FOREWORD



This symbol is used to highlight an important safety information. If this information is ignored, people are in danger either of possible injuries – even serious ones – or death.

IMPORTANT

This term highlights special precautions to be taken in order not to damage the machine.

USER'S MANUAL

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ENGINE

Use and maintenance instructions of the engine are mentioned in the relevant manual, copy of which is always supplied with every machine.

2 – IDENTIFICATION AND MARKING

IMPORTANT NOTE

Always mention the machine serial number when calling our technical service or when ordering spare parts.

MARKING

Marking example.

The CE mark is on the engine support right side.



3-CONDITIONS AND USE

This manual gives you general information on how this machine should be used and maintained. For any technical problem, please, call Your confidential dealer.

-  This machine has been designed to be used in compliance with what specified in the machine descriptions and safety warnings of this instructions manual.
-  Any other use is not allowed. The manufacturer is not responsible for damages caused by any use then the intended use. The user is fully responsible for any possible risk.
-  Use, maintenance and repair clauses prescribed by the manufacturer are also integral part of the machine intended use.
-  Only people familiar with this machine and well aware of its hidden risks can use, repair and maintain it.
-  The manufacturer is not responsible for damages caused by non-authorized changes made on this machine.
-  Besides warnings mentioned in this manual, please, also comply with general regulations on safety and accident prevention of EEC and the country in which this machine will be operating.

Descriptions, figures and technical features mentioned herein are non-binding for the Manufacturer. These are mentioned as mere information. The Manufacturer reserves the right to make any change at any time without being bound to update this publication.
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4-WARRANTY

If in doubt on causes and possible solutions for a certain trouble, please, call our authorized dealer.

This should be absolutely done during the warranty period, since any repair made by non-authorized workshops makes this warranty null and void.

Bear always in mind that the authorized dealer has all special tools, technical specifications and spare parts necessary for properly fixing the machine.

Therefore, he should be called in case of any doubt on maintenance specifications and/or procedures. Some pages of this manual might not be perfectly right due to misprints or production changes. For this reason, call Your dealer before being perfectly familiar with this machine and personally maintaining this machine. For further information on use and maintenance of this machine, ask your authorized dealer for the proper technical manuals.

Our materials have a 12 months warranty (coverings and electrical parts are not included). The manufacturer agrees on replacing those parts considered as faulty free of charge. Purchaser will be charged with labour costs – necessary for repairing the machine – and possible transport costs. Both the warranty claim and the returned piece should always be addressed to our Spare Parts Department and accompanied by regular freight bill mentioning all the machine details.

As far as materials available on the market – especially engines – are concerned, regulations of our supplier will apply and applications for possible technical service should be addressed to the local specialized technical service centres.



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www.benassi-meccanica.com e-mail: info@benassi.it

5 – MACHINE STARTING

READ CAREFULLY THE WHOLE MANUAL BEFORE MOTORHOE STARTING.

NOTES:



The manufacturer aims improving both design and quality of his products. As a consequence, even though this manual includes latest and most up-dated information available when printed, there might be small differences between your machine and the information of this manual. For any doubt or uncertainties on this manual, please, call our authorized dealer. This manual is an integral part of this machine and should always accompany this machine when sold..

6 – PACKAGE OPENING

IMPORTANT!

Keep the motorhoe away from the carton opening it in the upper side, loosening the part “1” and getting the handlebar ready “2”, as you may see in the picture.

WARNING: read carefully instructions on page 7/8.



7 – WARNING SIGNS



“**WARNING**”: Comply with what specified in control warnings and warning signs.



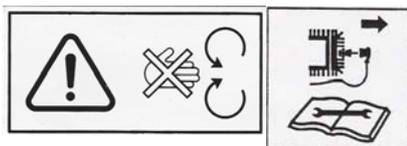
“**DANGER**” Blades and rotating parts in operation. Keep hands and feet away.



“**ATTENTION**”
Read use instructions !

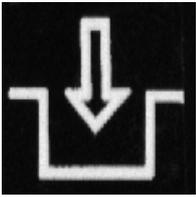


“**DANGER**” Keep children away from the machine.



“**ATTENTION**”
Before maintenance or repairing works switch always the engine off and take the candle connection away.

8 – CONTROL SIGNS



TRANSMISSION FITTING



THROTTLE LEVER



SPEEDS SELECTOR
ONLY RL 7 2+1



9- SAFETY WARNINGS



- 1) This machine has been designed and manufactured for being used by one operator only, and is driven by means of the appropriate handlebars. Any other use is not permitted.!
- 2) **Before the machine is operating, read the Use and Maintenance manual thoroughly, so that you are fully aware of all the operating controls and safety aspects of the machine.**
Before starting the engine, be sure that speeds selector is in position “F” and the SAFETY DEVICES are well working and fitting. Without these cares the operator might work in a danger situation.
DON'T SABOTAGE THE ENGINE STOP' SAFETY DEVICE AND THE DISENGAGEMENT DEVICE. THE MACHINE MIGHT BECOME EXTREMELY DANGEROUS!
- 3) Do not under any circumstances transport people or objects on the machine.
- 4) Always ensure that the machine's safety devices are correctly mounted and in perfect working condition..
- 5) Before use, check that all the controls, in particular the clutch, the Motor stop and the brakes (if fitted)are in good working order.
- 6) Any modification or spurious parts being fitted without the Manufacturer consent will nullify the guarantee, and any possible resulting damage will not answered for.
- 7) This machine must not be used by children or inexperienced persons.
- 8) Before operating the machine, check that the area is clear and free of debris and that there are no people within the working area (danger zone). The operator, will be held responsible for the safety of third parties, if these are found within the working area of the machine. Do not use the machine under these conditions.
- 9) Keep clear of cutting blades at all times while the machine is in operation. Pay particular attention when reversing; keep hands and feet clear.
- 10) Use the machine only with the handles in the correct working position. This allows a safe working distance between the operator and operating area.
- 11) Use only original accessories and spare parts to guarantee safety and correct operation of the machine.
- 12) Stop engine before refuelling and remove ignition key (if fitted).
- 13) Handle the fuel with care to avoid spilling on the machine; clean any spillage immediately.
- 14) Never refuel in confined places, in vicinity of open flames or near the source of sparks. No smoking!
- 15) Before starting the engine, check that all the controls are in the idle position.
- 16) Do not smoke when starting the engine!
- 17) Do not run the machine in a confined area as toxic exhaust gas can kill.
- 18) Plan your work before commencing.
- 19) Do not use the machine when you are tired.



9- SAFETY WARNINGS



- 20) Engage the clutch gradually; sudden engagement could cause the machine to rear up.
- 21) The area next to the engine exhaust will most likely reach temperatures above 80°. **Attention!** Danger of scalding.
- 22) Always wear close fitting clothes and anti-slip shoes or boots. For safety reasons avoid using loose clothing.
- 23) Make regular checks that all bolts and nuts are well tightened.
- 24) Keep the area of work clear and clean.
- 25) Only use the machine in clear visibility.
- 26) Avoid working with blunt cutting blades.
- 27) Pay maximum attention and use good sense when operating the machine.
- 28) If you hit any objects during work, stop the machine and check for any damage immediately.
- 29) During movement to and from the area of work, disengage the Power Take Off. (P.T.O).

- 30) Pay attention when reversing the machine not to trip over anything. If you loose your balancer, release the handlebars immediately; the Motor stop or the disengagement will immediately stop the machine.
- 31) Do not under any circumstance attempt to by-pass the motor-stop device or remove the disengagement device. The machine would result having no safety precautions and would be extremely dangerous.
- 32) Do not travel down hill with the clutch disengaged or the gears in idle.
- 33) The machine's speed must always suit the conditions and the environment.
- 34) Do not perform cleaning or maintenance operations of the machine when the engine is running.
- 35) Avoid sharps turns when travelling up hill, down hill or across steep slopes.
- 36) In steep descents, do not disengage the drive and do not change gear.**
- 37) When possible, avoid working up or down hill .Always travel across the slope.
- 38) Do not work on very steep slopes (max.30%).
- 39) Avoid overfilling the fuel tank.
It is important that the working position of the operator is always behind the handlebar.

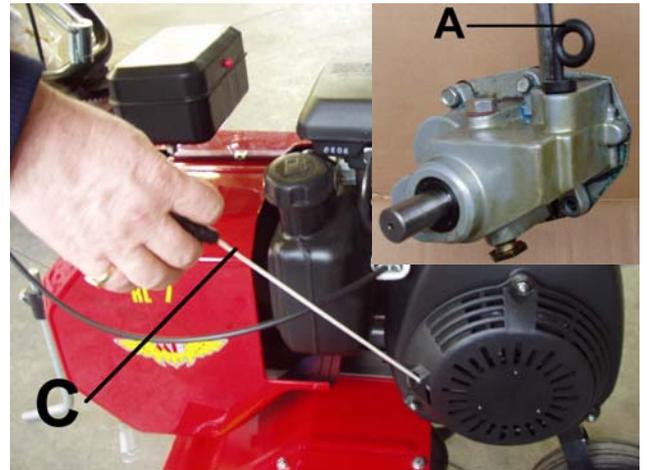
- 40) If there is fuel in the tank, avoid tilting the machine during maintenance or adjustment.
- 41) During use, keep the hot sections of the engine (i.e. cylinder head, exhaust, etc.) clean to avoid a build up of debris that will overheat the engine.
- 42) Whenever possible, stop the machine on level ground.
- 43) When stopping on unlevelled ground, engage 1st gear (up hill) or reverse gear (down hill).
- 44) If leaving the machine for a long time, ensure it is inaccessible to children and inexperienced people. Close the fuel tap (if fitted).
- 45) Do not leave the machine with the engine running.
- 46) The maintenance instructions of the machine must always be carefully followed and worn parts replaced when necessary.
- 47) If the machine is to remain unused for some time, clean it accurately and insert the appropriate protections.
- 48) Apart from the previous items, it is necessary to take heed of the specific safety norms in force in the Country where the machine is operating.

10 – ENGINE START-UP

Follow the instructions contained in the engine’s “USE AND MAINTENANCE” booklet.

Before starting the engine up, always check the following:

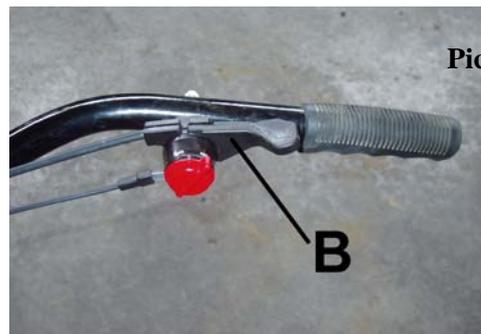
- There is fuel in the tank;
- Oil is at the right level in the gear-box (pic. 1 part. A);
- Hold the clutch control lever lifted (pic. 2);
- Make sure that the gear shift lever is in the “ F – NEUTRAL” position (pic. 4 part.. A) – only RL 7 2+1-;
- Turn the accelerator lever of 1/4 to the idling speed position (pic. 3 part. B); with cold engine engage the starter device.
- Hold the start handle (pic. 1 part. C) of the recoil starter with one hand only and pull smoothly until the ratchet gear engages and then pull sharply;
- Once the engine starts, the rope has to be left gently as far as completely wound ;
- Once the engine starts , put the accelerater lever (pic. 3 part. B) to the idling position and let the engine warm up.



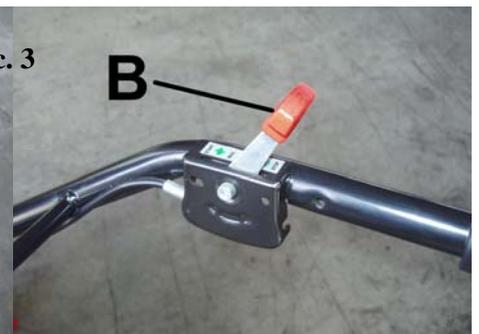
Pic. 1



Pic. 2

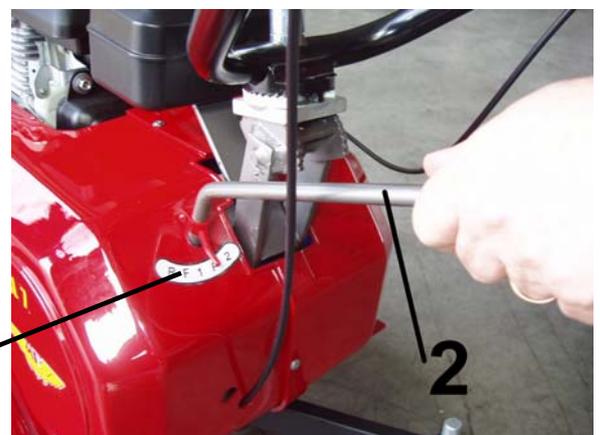


Pic. 3



ENGINE STOP

1. Release the clutch control lever (pic. 2 part. 1);
2. Make sure that the gear shift lever (part. 2) is in the neutral “F” position (pic. 4 part. A) – only RL 7 2+1-;
3. Turn the accelerator lever (pic. 3 part. B) until the engine runs idle or is in the STOP position.;
4. Turn the engine stop switch .
5. Close the fuel cock , if it is present.



Pic. 4

ONLY ON RL 7 2+1

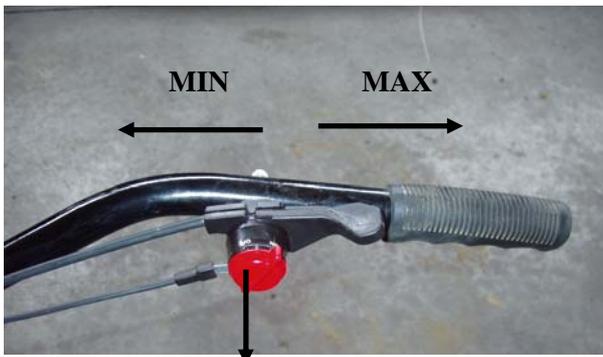


11 – CONTROLS UTILIZATION

ACCELERATOR CONTROL LEVER

For **Sinopower 168F** engine:

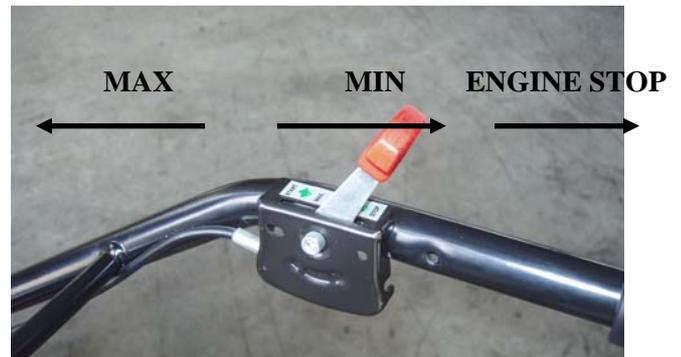
- Lever up : IDLING ;
- Lever down : MAXIMUM SPEED.



ENGINE STOP SWITCH

For **Honda GC160** engine:

- Lever back : IDLING and ENGINE STOP;
- Lever forward : MAXIMUM SPEED.



CLUTCH CONTROL LEVER

- Lever DOWN : the clutch is engaged (motorhoe moves forward or in reverse if selected);
- Lever UP: the clutch is disengaged (motorhoe stops);
- Setscrew for belt tension regulation (part. 1).

N.B.:
BEFORE USING THE MACHINE IT IS IMPORTANT TO VERIFY CAREFULLY THE GOOD WORK OF THE SAFETY DEVICE.

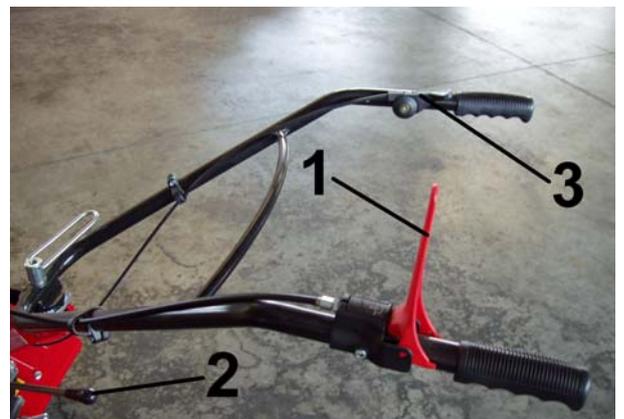


GEAR SHIFT LEVER (only RL 7 2+1)

1. Hold the clutch lever UP (part. 1);
2. Move the gear shift lever in the required position (part. 2). See plate pic. 4 part. A page 5 – RL 7 2+1-;
3. Accelerate by the lever (part. 3), pull down the clutch lever slowly (part. 1) and the motorhoe starts running.
4. To disengage the speeds , keep the clutch lever up and move the lever (part. 2) to neutral position.

WARNING

Always keep the clutch control lever UP when gears are shifted.



12 - ADJUSTMENTS

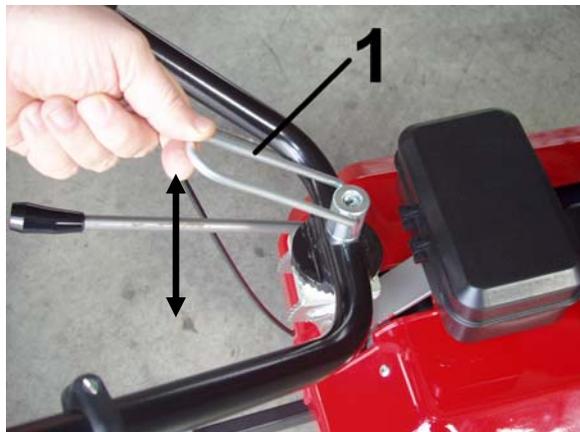
HANDLEBAR ADJUSTMENT

IMPORTANT!

Handlebar is adjustable in height and on the side ways, with the possibility to block it in the wished position; do this by the nut "1".

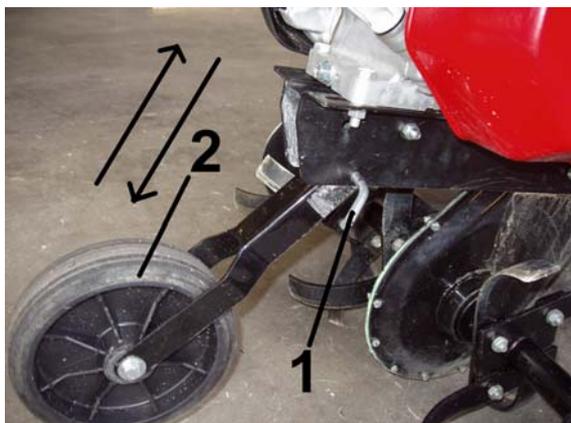
After blocking the handlebar, check that teeth of the blocking device are well connected.

Vibrations during the work may give aching to hands and arms. It is always better stopping working every 10 minutes as the lack of sensibility may be dangerous.



WHEEL ADJUSTMENT

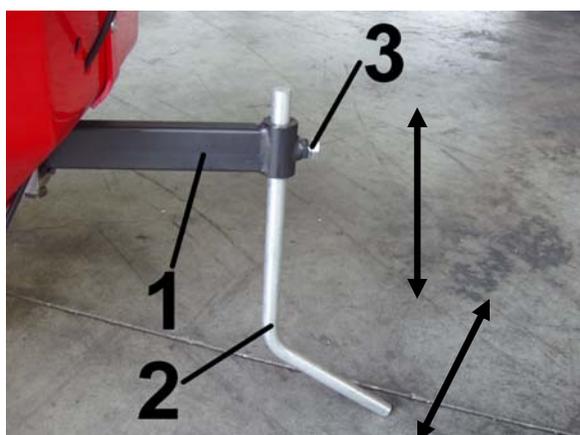
In working, transport wheel must be raised. For the transport of motorhoe, remove the lock pin (1), lower the wheel (2) and fit again the lock pin (1) using the upper hole.



SPUR

IMPORTANT!

Spur support can move slowly in a side way (1). It is possible to change the spur depth (2) by screw (3).



BELT ADJUSTMENT

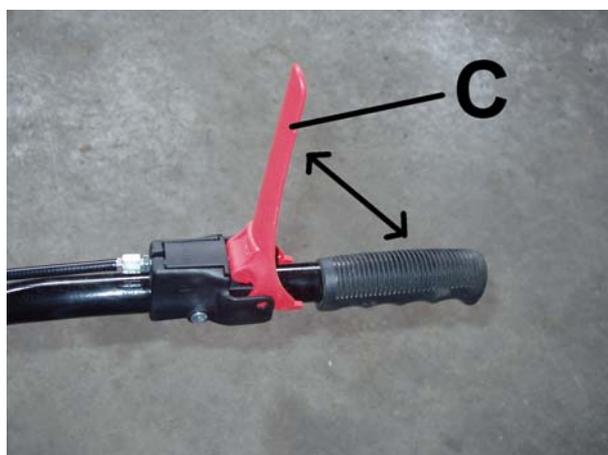
Remove the guard casing (Pic. 1 Part. A) unscrewing part.B-pic 1. Verify that belt is well pulled with clutch lever down (Pic. 2 Part. C) while with the same lever up, belt is free to move inside pulleys (Pic. 3 Part. E). On the contrary it is necessary put the engine in its right position a little bit unscrewing its screws (Pic. 3 Part. D) by sliding it along slots of its support. Done this adjustment, fix the engine and fit the guard casing again (Pic. 1 Part. A).

IMPORTANT!

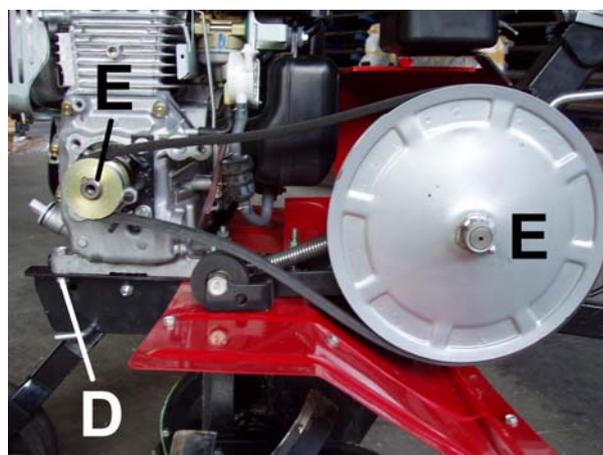
It is better that this adjustment is done by a specialized persons.



Pic. 1



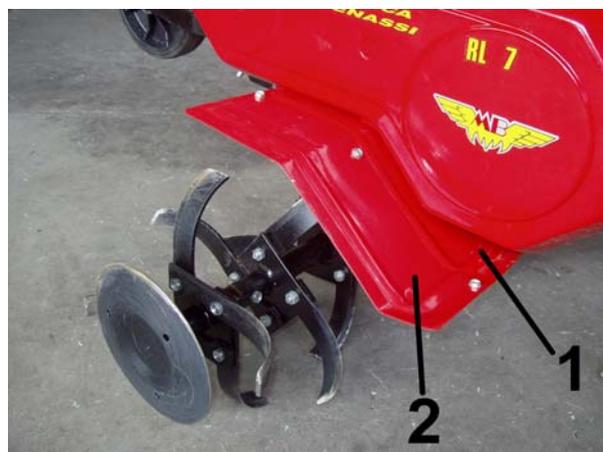
Pic. 2



Pic. 3

TILLER GUARD CASING

The tiller is protected by a guard (Part. 1) and its widenings (Part. 2) that must be always fitted when working. In compliance with safety and accident prevention regulations, guards must be always fitted before starting the use of the motorhoe verifying that screws are very well tightened.



13 - MAINTENANCE

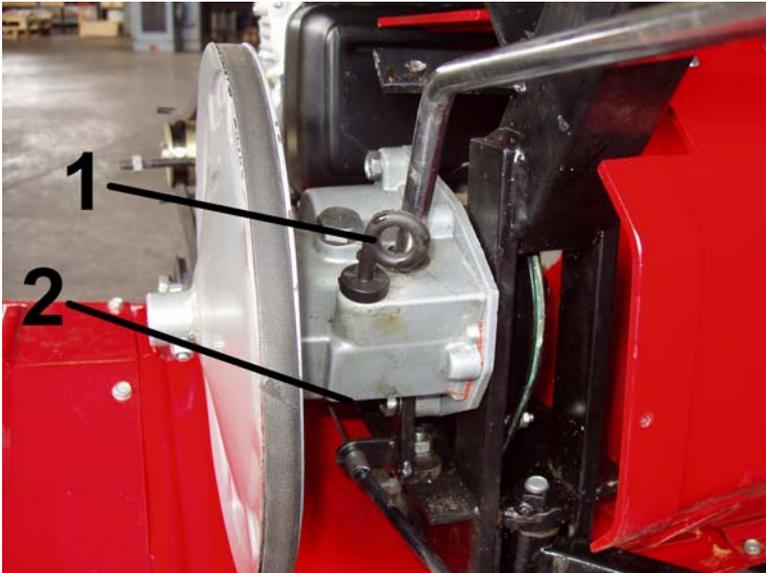
GEAR BOX (only RL 7 2+1)

IMPORTANT!

Change oil after the first working hours (**running in**). Oil has to be change when the engine is hot to facilitate its draining .

- Remove the breather cap (pic. 1 part. 1).
- Remove the drain plug (pic. 1 part. 2) placed at the bottom part of the gear box and let the oil drain off. Then refit the drain plug again.
- Fill fresh oil with the following features : **AGIP DIESEL SIGMA SAE 30.**
- Check the oil level when the machine is going to be used and change it every 300 working hours. For what the engine concerns, read carefully the manufacturer's booklet.

Pic. 1



GEAR BOX

Whenever the machine needs maintenance or overhauling, use only original spares of the manufacturer to ensure always the best reliability to the machine.

ENGINE

Follow carefully the instructions contained in the relevant use and maintenance booklet.

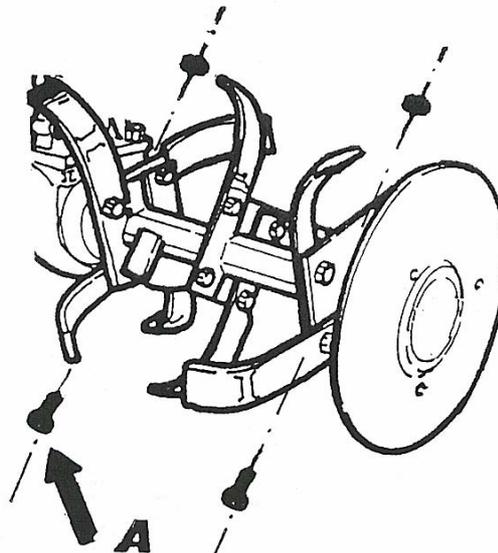
During the running in and in the first working hours of the machine, avoid heavy jobs and follow the instructions.

14 – ASSEMBLY AND DISASSEMBLY

TILLER



The tiller is fixed to the transmission shaft by screws “A”.



TILLER ASSEMBLY



The tool-holder shaft has got a cylinder profile so that the tiller may be quickly fitted.

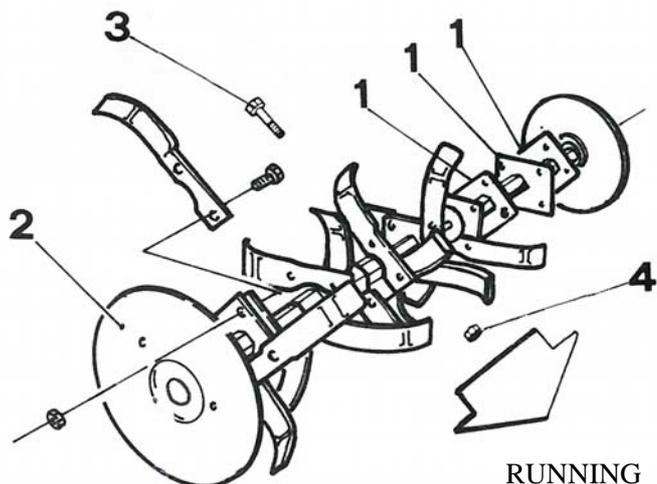
- Clean tiller-hubs and the tool-holder shaft .
Lubricate this in order to make easy its assembly and disassembly.

- Fit tiller-hubs (1) and disc (2) on the tool-holder shaft fixing them by screws (3) and nut (4).

NOTE:

The cutting part of blades must be always put towards the running direction.

Each time you start working verify that screws and nuts are well tightened.



RUNNING
DIRECTION

15 - TRANSPORT

Moving the machine for a short way, use the small transport wheel or fit a pair of side travel wheels. In other situations put the machine on a pallet, after a good fastening, and load it on a truck by a forklift

16 – TECHNICAL FEATURES

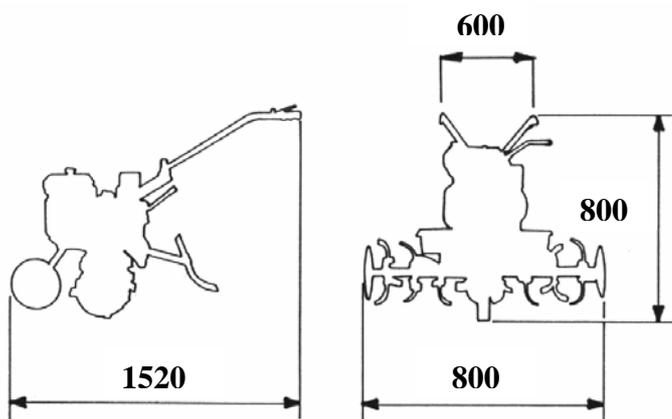
MAIN PARTS

1. Accelerator
2. Clutch and disengagement lever
3. Handlebar adjustment
4. Gear shift lever (RL 7 2+1)
5. Adjusting screw for spur height
6. Blades
7. Tiller guard
8. Handlebar
9. Spur
10. Transport wheel



RL 7 TECHNICAL DATA

Recoilstarter
Transmission by chain with an opening guard-hood
RL 7 2+1: Gear box in oil bath with 2 forward speeds and 1 reverse.
Belt clutch with stretcher
Dry air filter or in oil bath
Fully adjustable handlebar
60 /80 cms tiller with side discs
Transport wheel



17 – EQUIPMENT AND ACCESSORIES

MODEL
RL 7 2+1

RL 7
MONOSPEED

TILLER SIZES
80 cms. tiller with guard side discs

ACCESSORIES
Adjustable ridger with coupling

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18 – AIRY NOISE AND HANDLEBAR 'S VIBRATIONS

ATTENTION !

For your safety please follow these instructions :

- Wear guard-ears - Strong noise may damage the hearing !
- During working, vibrations may give you aching to hands and arms !
- It is always better stopping working every 10 minutes as lack of sensibility may be dangerous !

- GB - CE – DECLARATION OF CONFORMITY

In compliance with CEE 89/392 regulations and subsequent changes

- CERTIFICATE OF ORIGIN -

MECCANICA BENASSI S.p.A , I-44040 DOSSO (FE) via Statale, 325
DECLARES, under its own responsibility, that the item called **MOTORHOE**

Model:

RL-7

From series-no.:

700000001

* The number is printed on the machine's gearbox .

is manufactured by the above company in compliance with basic safety and health safeguard requirements specified in the regulation CEE 89/392 and subsequent changes.

For checking the conformity with the above regulations, have been examined the following CEN rules: UNI EN 709:98/A1 : 2000 .

Dosso, (Italy) , the 1st June, 2004

MECCANICA BENASSI SPA
L' Amministratore Unico

IF YOU NEED SPARE PARTS PLEASE PUT YOU IN TOUCH WITH



HOW TO DO IT !!

CLEARLY SPECIFYING IN WRITING

- a) **NAME OF THE MACHINE**
- b) **FRAME NUMBER**
- c) **POSITION, CODE NUMBER AND DESCRIPTION**
- d) **QUANTITY**

**FOR ANY SPAREPART YOU NEED CONSULTING
THE RELEVANT SPAREPARTS BOOK.**