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Stoneburier
Mod. CONDOR – CONDOR Light
Instructions and maintenance manual
(Translation of the original instructions)
WARNING
Always keep a safe distance when you are in view of the danger symbol placed on the side of the machine.

Never climb on the roller group or on the machine.

Before using the machine read the instruction booklet.

Turn off the working tractor before making any adjustment in the machine, take the key and read the instruction booklet.
Introduction

We would start by thanking you for having chosen our product and hope that you will be happy with your choice. In order that the STONEBURIER Mod. CONDOR-CONDOR Light can offer the maximum efficiency for many years, we ask you to pay attention to the instructions for use and maintenance which you will find in this manual. Observance of these regulations will prevent breakdowns and accidents for which our company will not accept responsibility.

This use and maintenance manual is to be considered an integral part of the machine and therefore it must always accompany the machine when it is sold, even in the event of its sale to third parties. If you keep this manual in a safe place and in good conditions, you - and whoever must use the machine - will be able to have a complete, legible reference on hand at all times.

Description of the symbols used in the manual

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>This symbol will be used in the manual to indicate actions (misuse) elements, behaviours and situations that could risk your security and the one of other people.</td>
</tr>
<tr>
<td>!</td>
<td>The rounded symbols with white pictograms will be used in the manual to indicate the Individual Protective Devices necessary while using the machine or while making any adjustments.</td>
</tr>
<tr>
<td>!</td>
<td>This symbol will be used in this manual to indicate that the described operation must be done with the walking tractor or tractor turned off and the key disconnected.</td>
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</tbody>
</table>

Note: For graphic settings, in this manual will be included only the pictures of the model CONDOR where there are no differences with the model CONDOR Light.

1 – Machine Identification

Each R2 machine has an EC plate with the main details of the R2 company and of the machines. The plate is positioned on the top center of the machine.

Fig. 1

<table>
<thead>
<tr>
<th>Mod.</th>
<th>Anno</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Serial N:</th>
<th></th>
</tr>
</thead>
</table>
2 - Description of the machine and its proper use

The STONEBURIER Mod. CONDOR - CONDOR Light is the only machine that applied to professional walking tractors (8-12 HP for the model CONDOR Light and up to 16-18 HP for the mod. CONDOR 89) mills burying the stones and tampers the soil in one single operation. As it can be seen from the illustration (Fig 2) the STONEBURIER Mod. CONDOR - CONDOR Light is equipped with a milling group to work the soil and to bury the stones and of a particular grid roller to compact the soil and to adjust the working depth. The STONEBURIER Mod. CONDOR - CONDOR Light is used for the soil preparation where it is necessary to bury stones and old weed. For a better working result, we advise to use the machine in a soil previously deeply broken up.

Fig. 2

A - Main body of the machine (milling group)
B - Roller group
C - Register roller adjustment
D - Flange walking tractor connection.
E - Joint protection guard with limit-switch and chain guard
F - Gear box

The STONEBURIERS Mod. CONDOR - CONDOR Light are designed to be applied exclusively to EC certified walking tractors with appropriate HP and for the soil working. Any other type of use is considered improper and therefore dangerous. In all those cases that the STONEBURIERS mod. Condor - Condor Light are used for different purposes of those determined, the manufacturer discains any liability for damages of any nature. Read always the walking tractor instruction booklet before fitting and using the R2 machine. The proper use of the machine implies:

- the respect of the rules of use and maintenance established by the manufacturer and gathered in this manual.
- the exclusive use of spare parts and original R2 accessories.

The machine must be used, maintained and repaired only by competent staff. The qualified staff enabled to use the machine must be properly trained and informed of the proper use of the equipment and the risks that could be run. The user is requested to comply with the rules and existing Legislation relating to fire prevention, safety at work and traffic in public roads.

Guarantee

Our equipment is covered by guarantee against manufacturing and/or assembly defects for 2 years from the date of delivery to the customer. This guarantee is not limited to the replacement of defective parts and does not include labour costs or transport. This guarantee does not cover the following cases:

- When the user has made adaptations to the original machine.
- When the machine has been used in excess of its power limits.
- When R2 spare parts are not used.
- When the equipment is not used in accordance with the manual instructions.
- When the equipment has been used incorrectly.

The R2 Company reserves the right to modify the data in this manual whenever this is considered necessary for technical or commercial improvements regarding the product itself.

Certification

The EC certificate supplied with the machine certifies that the machine complies with the current provisions of Law.

The EC certificate is enclosed with the machine documentation and contains the manufacturer's details, the machine data and the machine's declaration of conformity according to the Directive EC as in the copy shown in the figure beside.

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It is forbidden to copy this booklet or part of it without the authorization.
12 - End of work and storage of the machine

If the STONEBURIER Mod. CONDOR-CONDOR Light must remain unused for a long period, it is necessary to perform the following steps:
1. Wash thoroughly the STONEBURIER Mod. CONDOR-CONDOR Light and then dry it.
2. Check the double joint with a polishing machine.
3. Check the tightening of all the bolts.
4. Check the oil level in the reduction gear; mod. CONDOR: the grease level in the chain guard; mod. CONDOR Light: the lubricant in the chain lubrication system.
5. Protect and lubricate all the metal unpainted parts; cover the machine in a dry place, it will be ready for use at any time.

Attention: Before using the machine again, refer to the “Maintenance” chapter.

Keep the machine in a way that people or animals do not run any risk (stumbling, machine falling down) and protect the prominent parts in order that they do not cause injury. To avoid danger situations, store the machine in a way that does not hamper the escape routes, the emergency exits, the fire extinguishers, hydrants, etc.) and first aid (first aid boxes, etc.) from the storage place.

If the cleaning is made by compressed air or water, be sure that there are no people or animals in the working area and wear protective glasses and if necessary a dust mask. Do not direct the jet of compressed air or water to people or animals.

13 - Scraping and disposal of the components and packaging.

In case of machine scraping it is necessary to make it unusable to prevent that others can use it again; the reuse of the machine by a third party, can be dangerous and accidents can be prosecuted according to Civil and Criminal Procedure, under the laws in force in your country towards those that get rid of the machine without precautions. In order to make the machine unusable, it is necessary to disassemble the reduction gear and dispose of it separately from the rest of the machine.

In order to make the machine unusable, it is necessary to disassemble the reduction gear and dispose of it separately from the rest of the machine.

The polyethylene stretch film must not be used as a children toy because it may cause suffocation.

For the environment respect, dispose the materials in centers for separate collection of rubbish.

3 - Technical specifications and dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>CONDOR 62</th>
<th>CONDOR 75</th>
<th>CONDOR 88</th>
<th>CONDOR Light 62</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milling width (Fig. 3 - Ref. A)</td>
<td>62 cm</td>
<td>75 cm</td>
<td>88 cm</td>
<td>62 cm</td>
</tr>
<tr>
<td>Milling width (Fig. 3 - Ref. B)</td>
<td>113 cm</td>
<td>133 cm</td>
<td>113 cm</td>
<td>90 cm</td>
</tr>
<tr>
<td>Maximum height from the ground (Fig. 3 - Ref. C)</td>
<td>65 cm</td>
<td>65 cm</td>
<td>45 cm</td>
<td>50 cm</td>
</tr>
<tr>
<td>Walking tractor/tractor HP</td>
<td>10 - 12 HP</td>
<td>12 - 14 HP</td>
<td>16 - 18 HP</td>
<td>8 - 12 HP</td>
</tr>
<tr>
<td>Maximum working depth</td>
<td>14 cm</td>
<td>14 cm</td>
<td>14 cm</td>
<td>12 cm</td>
</tr>
<tr>
<td>Number of holes</td>
<td>20</td>
<td>19</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>Weight</td>
<td>156 kg</td>
<td>115 kg</td>
<td>115 kg</td>
<td>125 kg</td>
</tr>
</tbody>
</table>

Note: Emission of airborne noise. The noise produced by the machine varies according to the soil features at work. Exposure also depends strictly on the noise produced by the working environment (walking tractor). Considering the data in the literature relating to similar equipment, it can be considered an approximate value of exposure to the noise (determined by the machine and the walking tractor) between 90 - 95 dB (A) and 95 - 108 dB (A).

4 - Handling and transportation of the machine.

- The machine must be handled with lifting equipment. Make sure that such equipment (including the straps and the strings) has a carrying capacity appropriate to the weight to be lifted and that they are in good maintenance conditions.

The machine can be anchored in the coupling point as indicated in Fig. 4; because of the position of the center of gravity, the machine model CONDOR will lean while lifted of 25° (Fig. 4).

- In order to make handling operations safely, always wear safety shoes and make sure that there are no people or animals nearby while working.

- The machine can be transported by professional means of conveyance (trucks, vans, etc.). Transportation by car is permitted only if the car boot is divided by a barrier that can hold the machine in case of frontal collision. In all cases, before transporting the machine, make sure that it is well anchored with straps and strings and that it is stable enough. The anchor points can be the roller support and the coupling to the walking tractor.

- Always check that any walkways, ramps, etc. that must be crossed with means of conveyance and lifting equipment are well anchored and have a capacity capable of supporting the total load of the vehicle + machine + operator. When using ramps for loading, ensure that the vehicle has the handbrake on and that the vehicle is positioned such that the wheels are clear of the ramps.
Most accidents that happen at work, during the maintenance or the shifting of a machine, are due to negligence in the observance of the most elementary rules of accident prevention.

It is, therefore, necessary that whoever uses the machine read and respect the rules written below and the ones on the adhesive stickers of the machine.

1. Verify that on the machine are stuck all the security signs and that they are readable.
2. Before cleaning the machine, making any adjustments or reparations, turn off the walking tractor engine. Before each operation put the machine on the floor or on steady supports.
3. Never approach to the machine moving parts.
4. The STONEBURIER Mod. CONDOR – CONDOR Light has been manufactured for a specialized use. It must, therefore, always be in perfect working conditions and only R2 spare parts should be used when making any reparations.
5. Before using the machine, check the tightening of the nuts and screws, in particular those of the hoes.
6. Keep away all the people or animals before starting to work.
7. Be careful when working alongside roads, pathways or sloping ground.
8. Do not leave the machine working without supervision.
9. While checking or repairing the machine, be sure that nobody can start it up accidentally.
10. Wear tight-fitting clothes that do not cause any footholds in the rotating parts of the machine.
11. Do not climb on the machine at work.
12. Do not interfere with objects on the machine while working.
13. Never use the machine without the back roller or without the protections delivered with the machine. Never remove the protections.
14. In case the machine blocks, before making any reparations, turn off the walking tractor engine and remove the key.
15. Always read the instruction booklet of the working equipment (walking tractor) before fitting and using the R2 machine. Do not remove or evade the security systems of the working equipment, before start working, be sure that the security systems of the walking tractor work correctly, if not, do not use the machine.
16. Do not carry people, animals or objects on the machine.

11 - Hoes replacement

The hoes replacement must be made disassembling the roller group, the back grid and turn upside down the machine so that the milling group looks up (Fig. 10a). Place the machine on a stable and safe plane.

The hoes are important in the stoneburiers. CONDOR – CONDOR Light because the depth of the stones burying depends on the hoes length. A higher consumption of the blades reduces the working quality. Whenever you change the hoes use new nuts, screws and bolts.

N.B. Use always original steel bolts.

Fig. 10a

Fig. 10b

A: Steel self-locking nut M10 x 1,25 x 30 DIN 960 – 8.8
B: Nut seat
C: Steel nut M10 x 1,25
D: Hoe
E: disk hoe-hooper

Tightening of the hoes screws: 85 Nm

While replacing the hoes, wear protective gloves. If the maintenance is made on a raised plane, always wear safety shoes.

All the maintenance work must be made with the walking tractor or tractor off and the key off.

If the tightening of the hoes screws is made with pneumatic screwdrivers, put on ear protections and protective glasses.
10 - Maintenance

Operations to be carried out in order to maintain the machine in good working conditions:

- Before using the machine:
  1. Check the clamping of the walking tractor tie-rods on the machine flange.
  2. Check that the screws are tight, in particular check that the hoses screws are intact, if while working they break, it is necessary to stop working and replace them.

- At the beginning of the working season and each 4 months:
  1. Grease the roller support (Fig. 9 Ref. A).
  2. Check the lubricant oil level of the reduction gear in the upper part of the reduction gear (Fig. 9 - Ref. B) putting a vertical crossbar the oil level must be 1 cm.
  3. Chain lubrication

Mod. CONDOR: add the lubricant grease in the indicated point (Fig. 9 - Ref. C) only in case there are leaks:
Mod. CONDOR Light: remove the guard (Fig. 9 - Ref. D) lubricate the transmission chain with a lubricant spray and re-assemble the guard.

During the maintenance operations wear protective gloves; for the lubrication/greasing operations always wear nitrie gloves and protective glasses.

If the maintenance is made on a raised plane (for example on a workbench), always wear safety shoes.

All the maintenance work must be performed with the walking tractor off and the key off.

After finishing the lubrication/greasing operations, clean the residual of lubricant left on the floor.

6 - Components assembly and coupling of the working equipment.

Note: all the components that make part of the machine and that must be assembled before using it, have been designed to minimize the user’s work; the parts should be assembled using hand tools (wrenches).

The assembly must be made on a steady surface or on an homogeneous level floor. During the assembly wear leather gloves and accident-prevention shoes.

6.1 Roller group, grid, and roller adjustment rod assembly

- Put the roller group screwing the two arms (Fig. 5 - Ref. A) in the holes that you will find in the back part of the stoneburier (Fig. 5 - Ref. A).
- Assemble the grid (Fig. 5 Ref. D), tightening the bolts in such a way that the rubber cylinders leave a partial elasticity of the grid with respect to the machine.
- Screw the roller adjustment rod (Fig. 5 - Ref. C) in the points indicated on the roller support (Fig. 5 - Ref. D) and on the stoneburier (Fig. 5 - Ref. E).

NOTE: the screws used to fit the roller group and the roller adjustment rod must be well tightened in order that all the elements can turn during the adjustment.

6.2 Assembly of the machine to the walking tractor

Put the transmission sleeve on the machine shaft previously lubricated. Afterwards, bring the walking tractor near to the machine paying attention that the sleeve engages with the connecting-shaft of the walking tractor and that the flange fits perfectly well; then tighten the machine with the walking tractor rods (Fig. 6 - Ref. A).
7 - Preparation for use

Before using the machine it is necessary to perform the following controls with the walking tractor off and the key off:
- Check the bolts tightening and that all the elements are in perfect conditions.
- Check that the signs security are present and legible.

8 - Working depth adjustment.

The working depth is adjusted by the screw crank register roller (Fig. 7 e 8 - Rif. A). Lifting the roller (screwing the register) the milling group will sink on the soil. The roller must be adjusted so that during the working, the machine sides are leaned or inserted on the soil (the inferior side of the chain guard (Fig. 7 e 8 - Rif. B) touches the soil).

To transport the machine applied to the walking tractor when it is not used, adjust the adjustment rod (maximum extent of leverage), in this way the the stoneburer will not touch the soil and the roller will function as a wheel.

To avoid dangerous situations, it is necessary that during the milling the machine sides touch the soil.

Fig. 7

9 - Machine use

9.1 - Soil working

Once you have made the adjustments, it is possible to operate the walking tractor and so the PTO that will determinate the hoes rotation. Pressing the forward, the working soil will start. The operator's position is at the rear of the walking-tractor (or semi-laterally where it is possible to adjust the handlebars). It is important to remember that while driving you should not make any turning maneuvers (the hoes are inserted into the ground) but only small corrections of direction.

To change direction do as follows:
1. Stop the motion of the walking tractor.
2. Stop the PTO motion.
3. Lift the machine using the walking tractor handlebars.
4. In order to change direction, place yourself in the track that you would like to follow.
5. Lower the machine.
6. Operate again the PTO motion.
7. Operate again the forward motion.

Keep in mind the rules for the prevention of accidents mentioned in Section 5.

Always remember:
- Keep away people or animals from the working area; do not allow anyone to aproach to the machine while working.
- Never approach to the mechanical moving parts; wear safety shoes. If while working, there is a lot of dust (which will depend on the type of soil) wear a dust mask.
- Do not use the machine in reverse; do not use the machine on steep slopes (verify the walking tractor instruction booklet).
- Before operating the machine, verify that the safety system of the walking tractor functions correctly.

9.2 - Milling group locking

The STONEBURIER CONDOR-CONDOR Light has been designed and constructed so as to minimize the possibility that the mill grader can lock while working.

It is not excluded, however, that this can happen if there are stones or big stones, iron wires or other elements that can fit in or roll in the hoes. In order to avoid the stoneburer from locking, we advise you to remove the big stones, the iron wires, etc. from the soil before starting to work.

To unlock the machine it is possible to do in the following way:
- Disconnect the walking tractor PTO.
- Lean the machine on the ground and go for some metres forward (with the PTO disconnected) so that the milling group turns in the opposite way of the working sense.

If the machine should lock again, it is necessary to check the milling group. TURN OFF the walking tractor ENGINE and REMOVE THE KEY before making any repairation in the milling group. The key must be kept by the person that will remove the stuff that has locked the machine.

To unlock it, remove the stuff with a tool of lengthened shape; do not use the hands.