

ROTARY TILLER "C" SERIES

Operation, Service & Parts Manual



Carefully read this manual before using the machine

June 2006

FORM: CTillerBook,QXD

No part of this manual shall be reproduced, copied or disseminated by any means, without Gearmore's prior authorization in writing.

Gearmore reserves the right to make any necessary changes without giving prior notice, in order to optimize the quality and safety features and does not commit itself to updating this manual every time a change is made.

This booklet provides a thorough and accurate description of the instruction and maintenance activities to be carried out on the tiller you purchased. We congratulate you on your choice and urge you to thoroughly familiarize yourself with and follow the instructions contained in this manual. This will assure you a long, safe and trouble free working life for your tiller.

Gearmore shall not assume any responsibility should problems arise as a result of lack of compliance with the instructions and/or operator's negligence.

The manual is divided in chapters and paragraphs and the pages are numbered, thus offering accurate and precise information.

The requested information can be easily found by searching the key words or referring to the index.

| Date of Purchase: | |
|-------------------|--|
| | |
| Model Number: | |
| | |
| Serial Number | |

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GENERAL INFORMATION

GENERAL INFORMATION

APPLICATION

The C Series Rotary Tillers are designed to till soil for seedbed or planting preparation.

The C Series Tillers are adapted for tractors with 540 rpm PTO speed and Category 1 3-point hitch tractors up to 50 HP. These tillers are also Quick Hitch adaptable (by means of Quick Hitch Optional Kit).

SYMBOLS

This booklet contains three "safety pictograms" which highlight the relevant danger levels or important information:



It draws the operator's attention to special situations which may jeopardize people's safety.



It draws the attention to situations which unfavorably affect the machine efficiency, but not people's safety.

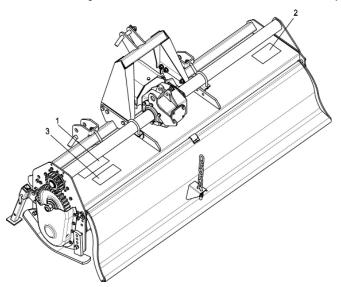


It is used for general information, when people's safety or the efficiency of the parts are not at risk.

SAFETY LABELS

SAFETY LABELS

The safety labels and information on the machine (labels 1, 2 and 3), must be complied with. Failure to comply with these warnings may result in severe injuries or even death. Make sure that the labels are always present and legible; should this not be the case, contact your nearest Gearmore dealer to request replacements









2

TECHNICAL DATA

TECHNICAL DATA

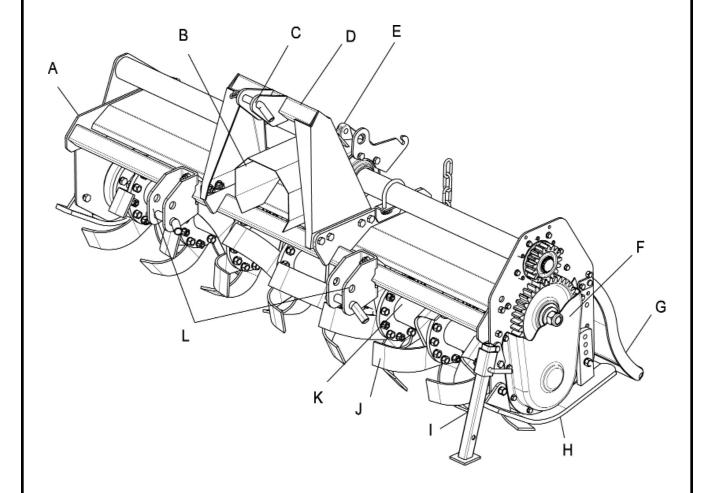
| Model | Tilling Width | | · HP | | ight rox.) | | g Depth ax) | Side | Drive | Blades | Bla | des |
|-------|---------------|--------|---------|-----|---------------|----|----------------|-------|-------|--------|--------------------|--------|
| Model | cm | Inches | • • | kg | lbs | cm | Inches | Chain | Gear | (Qty) | Blades/ /flange | Shape |
| | 105 | 41 | 30 - 50 | 220 | 485 | 18 | 7 | * | | 30 | 6 | Curved |
| | 125 | 49 | 30 - 50 | 230 | 507 | 18 | 7 | * | | 36 | 6 | Curved |
| С | 145 | 57 | 30 - 50 | 246 | 542 | 18 | 7 | * | | 42 | 6 | Curved |
| | 165 | 65 | 30 - 50 | 266 | 586 | 18 | 7 | * | | 48 | 6 | Curved |
| | 185 | 73 | 30 - 50 | 290 | 639 | 18 | 7 | * | | 54 | 6 | Curved |



When asking for information or technical service, always specify the machine type and width.

MAIN PARTS TERMINOLOGY

MAIN PARTS TERMINOLOGY



- A) Main Frame
- B) PTO Guard
- C) Top Link Coupling
- D) Third Point Mast
- E) Gearbox
- F) Transmission Case

- G) Rear Board
- H) Skid
- I) Parking Stand
- J) Tines
- K) Rotor
- L) Lower Hitch Brackets

INFORMATION

IDENTIFICATION PLATE

An identification plate is placed on each tiller and is structured as follows:

Serial number (sample):

MADE IN ITALY

Distributed by
Gearmore, Inc.
Chino, CA

Model B
Serial *000001*

RECOMMENDED USE

The tillers described in this instruction and maintenance manual, have been designed explicitly to till the land. Any other use jeopardizes the operator's safety and the machine integrity.

INAPPROPRIATE USE

The tillers shall not be used as follows:

- Connected to vehicles which do not have a suitable power or weight.
- Without being properly installed by securing the hitch brackets to all three points of the tractor lift unit.
- Tilling of extremely stony or unsuitable ground.
- Raising or lifting of the equipment when the power take off is engaged.
- In close proximity to person/s when power is engaged.
- Do not stand or step on the equipment when it is being operated or transported.
- Do not operate the machinery while wearing unsuitable (loose fitting) clothing.

TORQUE SPECIFICATIONS

For correct hardware tightening on the tiller, we suggest the use of suitable torque wrench and the applicable torque as listed in the table below:

M-THREADED SCREW/BOLTS

Bolt grade

| Bolt grade | | | | | |
|------------|-----|-------|-----|-------|--|
| Thread | 8. | .8 | 10 | .9 | |
| | Nm | Lb-ft | Nm | Lb-ft | |
| M6 | 11 | 8.5 | 17 | 12 | |
| M8 | 28 | 20 | 40 | 30 | |
| M10 | 55 | 40 | 80 | 60 | |
| M12 | 95 | 70 | 140 | 105 | |
| M14 | 150 | 110 | 225 | 165 | |
| M16 | 240 | 175 | 305 | 225 | |
| M18 | 330 | 250 | 475 | 350 | |
| | | | | | |

SAFETY

SAFETY IN THE WORKPLACE

Most of the accidents, which occur while the operator is using the machine or the equipment or carrying out maintenance and repair activities, are caused by the non-compliance with the main safety requirements.

Therefore the potential risks must be fully understood and special attention must be paid to the activity which is being executed.

If potentially dangerous situations are known, accidents can be prevented!

USER'S REQUIREMENTS

The equipment user must have the following:

Physical: good sight, co-ordination and capability to execute all instructions in a safe manner.

Mental: the users must understand and follow the prescribed norms, rules and safety measures. They must be careful, pay attention to their own safety and the safety of other people and act properly and in a responsible way.

Training: the users must read and understand this manual, its pictures and charts, and the identification and hazard plates. They must be specialized, trained and qualified on any use and maintenance activities.

WORK CLOTHING

The following clothing and personal protective equipment must be used when working and executing maintenance and repair activities:

- Overalls or any other comfortable outfit; make sure that they are not too loose since they might be caught by moving parts.



- Protective gloves.
- Goggles or mask to protect the eyes and face.





- Safety helmet.
- Safety shoes.



Make sure that the personal protective equipment is properly stored and complies with the laws in force.

GENERAL SAFETY NORMS

The features of the area where work is taking place must always be taken into consideration:

Do not stand in the working radius of the operating machinery or any other machine accessories when the equipment is running.

PREPARATION

Prepare the work:

- Do not drink alcohol, take drugs, or any other substances which may affect your ability to use the equipment before or when working.
- Make sure that there is sufficient fuel in the tractor to prevent the machine from stopping during work.
- Do not use the equipment under unsafe conditions, e.g. do not make temporary repairs just to start or keep working; do not work at night if the area is not well illuminated.

When working or executing maintenance activities, remember:

- The labels and stickers providing instructions on the use of the equipment or information on dangers must not be removed or hidden, and must be legible.
- Do not remove the safety devices, covers and safety guards, unless maintenance activities are being carried out. If the safety devices must be removed, turn the engine off, remove them correctly and re-install them before turning the tractor on.
- Do not lubricate, clean or adjust moving parts.
- Use the appropriate tools to execute maintenance or adjustment activities on the equipment.
- Do not use damaged or unsuitable tools, e.g. pliers rather than wrenches etc.
- Prior to carrying out activities on hydraulic lines under pressure, or disconnecting their components, make sure that the line is no longer under pressure and that it does not contain any hot fluids.
- Check all the fittings and make sure that they are well connected before supplying pressure to the hydraulic lines.
- Make sure that no tools, clothes or any other materials are left in areas where moving parts are present when the maintenance and repair activities are completed.
- Do not give directions and make signals at the same time during a maneuver.
 Maneuver directions and signals must be given from one person only.
- Do not unexpectedly call an operator, if not necessary. Do not startle the operator, e.g. by throwing objects.
- Pay attention to people in the vicinity of the work area, especially children!
- Make sure that nobody is standing in the working range of the equipment.
- Do not use the equipment to lift people.
- When the equipment is not needed, turn the engine off, leave the vehicle on a flat surface, with the first gear and the parking brake engaged. Disengage the power take off.
- Do not execute any cleaning, lubrication, repair or adjustments when the engine is running and the equipment is in the raised position.
- Do not work on steep slopes, if the stability of the vehicle can be jeopardized.

Manufacturer shall not assume any responsibilities if these instructions are not strictly followed.

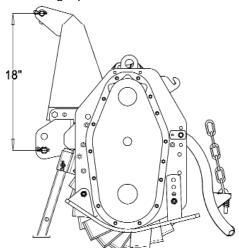
ATTACHMENT TO THE TRACTOR

This tiller may be attached to any tractor equipped with a Cat. 1, 3-point hitch with suitable ball ends; it can also be attached by means of a Cat. 1 Quick Hitch.

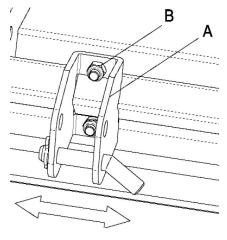
3-POINT CATEGORY 1 HITCH

To connect the tiller to the tractor's 3-point hitch, do the following operations:

- 1) Install the lower link brackets with the holes facing down as shown in picture 1; this gives you the standard A.S.A.E. vertical dimension of 18" (*picture 1*).
- 2) Release the bolts **B** and adjust the position of the brackets **A** to obtain standard A.S.A.E. horizontal dimension of 26 7/8" (*picture 2*).

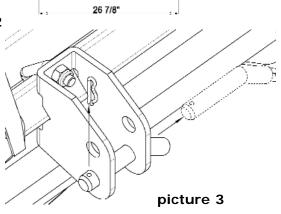


picture 1

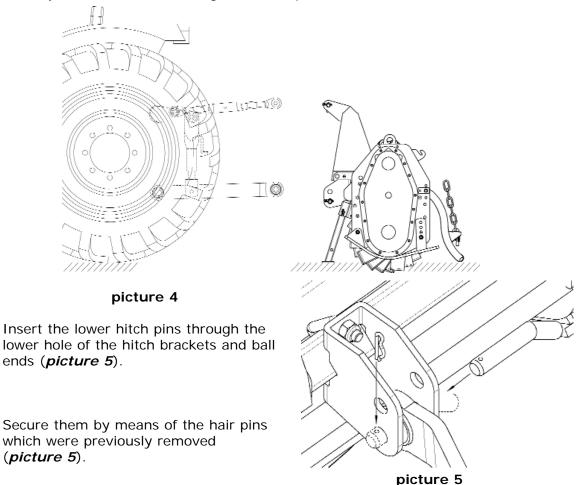




- Remove the hair pins from the hitch pins (*picture 3*).
- Remove the lower hitch pins from the lower hitch brackets (*picture 3*).



Before attaching the equipment to the tractor, make sure that the ground is smooth and flat and that nobody is standing between the tractor and the tiller; slowly move the tractor towards the tiller by aligning the tractor lifter arms with the lift bracket holes (*picture 4*); turn the engine off and pull the brake.



- 8) Connect the tractor top link to the third upper point by removing the pin located between the two plates, inserting the top link and securing it by means of the hair pin. Shift the parking stand in the upper position.
- Adjust the top link so that the upper part of the frame is parallel to the ground. Block all the linking parts by means of the sway chains or arms.
- 10) Make sure that the central unit axis (gearbox assembly) is parallel to the ground, thus minimizing the stresses on the power take off and increasing the working life of the equipment.



6)

7)

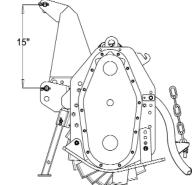
After executing all the above mentioned activities, make sure that all the nuts and bolts are tightened.

3-POINT CATEGORY 1 QUICK HITCH

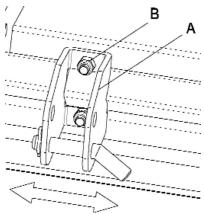
The C Series Tillers are Cat. 1 Quick Hitch adaptable. To attach the implement to the tractor it is necessary to order the Quick Hitch Kit composed of 3 bushings. The following operations

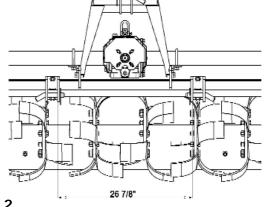
are needed:

- 1) Place the bottom brackets with holes facing up as shown in picture 5. This gives you the standard A.S.A.E. dimension of 15" for Quick Hitch (picture 6).
- 2) Release the bolts **B** and adjust the position of the brackets A to obtain horizontal displacement of 26 7/8" (picture 2).



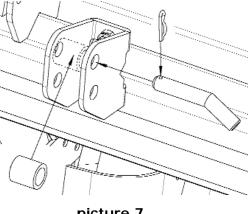
picture 6





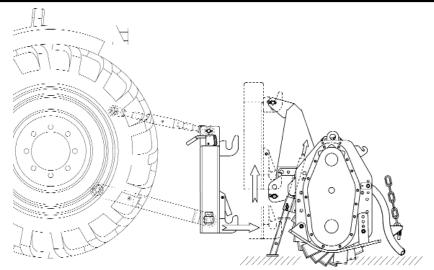
picture 2

- 3) Insert the lower bushing of the kit in the upper hole of the lower hitches (picture 7).
- 4) Insert the lower hitch pins through the hitch bracket and bushing (picture 7).
- Secure them by means of the hair pins 5) which were previously removed (picture 7).
- 6) Repeat the same operations from 3 to 5 for the upper bracket with the upper bushing.



picture 7

7) Before attaching the equipment to the tractor, make sure that the ground is smooth and flat and that nobody is standing between the tractor and the tiller; slowly move the tractor towards the tiller by aligning the tractor lifter arms with the bracket holes; turn the engine off and pull the brake.



- 8) Lift the Quick Hitch until its hooks engage the hitches of the implement.
- **9)** Raise the parking stand to the upper position.

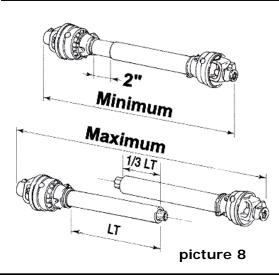
PTO SHAFT CONNECTION

Before installing the PTO shaft make sure that the RPM rating and the direction of rotation match those of the tractor. Carefully read the PTO shaft and tractor instructions. Furthermore, accurately read the instructions of the manufacturer of the PTO shaft and of the tractor.

Before starting any activity, make sure that the guards are installed on the power take off of the tractor and PTO shaft. Make sure that they cover the PTO shaft throughout its length.



When fully extended, the plastic pipes must overlap by at least 1/3 of the length of the pipes (LT). When retracted, the minimum acceptable clearance is 2" (picture 8).

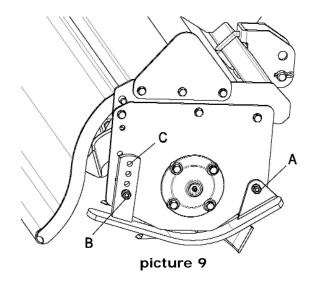


Check that the PTO shaft minimum and maximum length are within the parameters of the machine tractor coupling.

Should problems arise, contact your dealer. After the installation, anchor the PTO shield to the tractor and machine using the special chains; make sure that it turns smoothly. If the PTO shaft is equipped with safety devices, e.g. torque limiters or free-wheel devices, install them on the operative machine side. For the use and maintenance of the PTO shaft, please refer to the relevant manual.

WORKING DEPTH ADJUSTMENT

The working depth of the equipment depends on the position of the lateral skids. If the skids are raised, the working depth increases; if the skids are lowered, the working depth decreases.

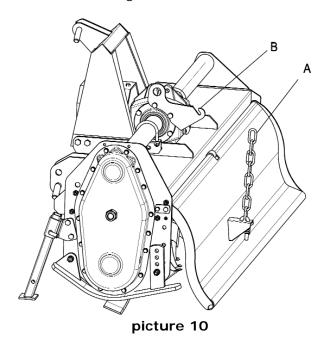


To adjust the working depth, loosen nut **A** (*picture 9*), remove nut **B** and adjust the skid height according to the holes **C**. When the adjustment is completed, tighten both the screws to the correct torque, according to the values suggested in *Torque Specifications*, *page 5*.

IMPORTANT: Make sure that the skids are set at the same height on both sides.

LEVELING BOARD ADJUSTMENT

The rear leveling board can be adjusted in height to better compact the ground and make it flat. The adjustment can be made by releasing chains **A** (*picture 10*) from upper hooks **B** and inserting it back to the desired height.



MAINTENANCE



These activities must be carried out with the engine off, the power take off disengaged and the hand brake applied. If needed, lift the equipment and place it on supports, thus preventing any injuries that might be caused by a sudden fall of the equipment.

START UP

After carrying out these adjustments, the equipment is ready for use. When at the working area, do not start the power take off with the tiller in working position in the ground. Be sure to lift it by a few centimeters using the tractor lift. Start the engine, engage the power take off, lower the equipment to its working position and start.

ROAD TRANSPORT

With reference to road transport, follow local traffic regulations.

SHUT DOWN

The following activities are recommended if the tiller will not be used for a long period of time:

- 1 Clean and dry the equipment.
- 2 Inspect the equipment and replace the damaged or worn parts if necessary.
- 3 Tighten all the screws and nuts.

Lubricate and cover the machine with a tarpaulin and store it in a dry place.

MAINTENANCE

Maintenance is crucial for the working life and efficiency of any agricultural equipment. If the equipment is properly maintained and operated, a long working life and operator safety are assured.

The maintenance intervals indicated in this booklet are provided as a mere reference and are related to normal working conditions; changes may occur depending on the type of activities, environmental dust, seasonal factors, etc.



- Before injecting lubricating grease into the grease fittings, clean the fittings to prevent mud, dust, or any other foreign matter from contaminating the grease and reducing the lubrication effect.
- When adding or changing the oil, use the same type of oil to prevent mixing oils with different features.
- All maintenance activities must be carried out with the tiller resting horizontally on the ground.
- After using the equipment for a few hours, make sure that all the bolts (especially tine bolts) are tightened; regularly check all the machine guards.

FIRST CHECK

After 50 working hours, change the oil in the gearbox and make sure that all the screws and bolts are tightened.

MAINTENANCE

EVERY 8 WORKING HOURS

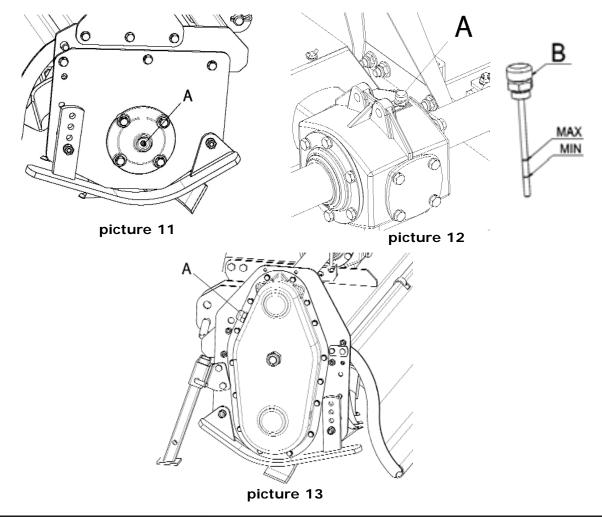
Grease the PTO shaft crosses.

EVERY 50 WORKING HOURS

- Grease the external rotor bearing through the grease zerk A (picture 11).
- Check the oil level in the case/bevel gear pair by removing gearbox's upper oil plug (A picture 12); oil level should be contained between the 2 nicks of MIN & MAX of the dip stick oil plug (B picture 12). If needed add SAE EP 80W90 oil.
- Check the oil level in the side transmission (A picture 13). If needed add SAE EP 80W90 oil.
- Make sure that all the screws and bolts, especially on the blades, are tightened.

EVERY 500 WORKING HOURS

■ Change the oil of the case/bevel gear pair, side transmission and rotor support; use SAE EP 80W90 oil. Contact the closest dealer for this maintenance activity.





The old oil must be disposed of in compliance with the local laws where these activities are carried out; do not spill or dispose of waste oil on the ground.

SPARE PARTS



The maintenance activities must be carried out with the engine off, the power take off disengaged, the parking brake engaged, and the equipment placed on the ground.

BLADES REPLACEMENT

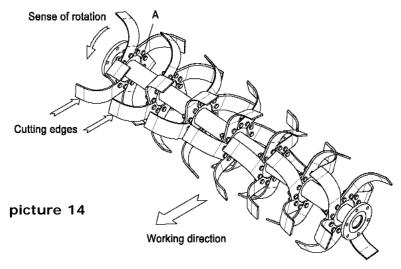
To assure the optimum efficiency of the machine, make sure that the tiller blades are in a good working condition and that their bolts are tightened; replace them if they are broken or bent. The new parts must be installed in the original position.



Before replacing the blades, turn the tractor engine off, pull the parking brake, disengage the power take off, raise the tiller using the tractor lift, and install supports to prevent accidental dropping of the machine.

Pay special attention to the bolts **A** on the blades (*picture 14*): the screw head must be placed on the blade side, with the washer and the nut on the flange side, so that the bolts cannot loosen while the equipment is being used.

When several blades must be replaced, replace one blade at a time, so that the initial helical layout is maintained (*picture 14*).



HOW TO ORDER SPARE PARTS

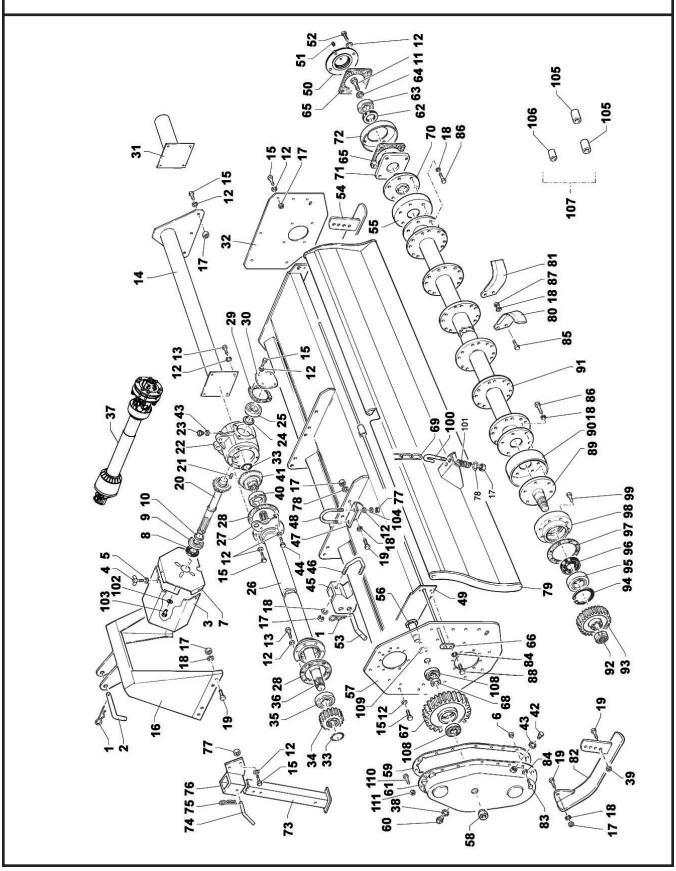
For spare parts requests please refer to our spare parts catalog.

The spare parts can be ordered from the dealer or service center.

The spare parts can be ordered from the dealer or service center. The following data must always be specified:

- Equipment type and width.
- Part number of the requested component. If the code number is missing, indicate the table number in which it is shown and the relevant reference.
- Description of the part and requested quantity.
- Requested type of transport. Should this information not be provided, the dealer or service center shall not be responsible for delays caused by circumstances beyond their control. The addressee shall be responsible for any transport charges.

"C" TILLER ASSEMBLY



| REF# | QTY. | PART NO. | DESCRIPTION |
|------|-----------|----------|-------------------------------|
| 1 | 3 | 6351004 | Split Pin 4 x 80 |
| 2 | 1 | 4301589 | Pin |
| 3 | 1 | 4138034 | Protection |
| 4 | 3 | 33108020 | Bolt M8 x 1.25 x 20 UNI 5449 |
| 5 | 3 | 34118008 | Washer |
| 6 | 15 | 34100008 | Nut M8 UNI 5587 |
| 7 | 1 | 4138035 | Protection Support |
| 8 | 1 | 35X72X12 | Oil Seal 35 x 72 x 12 PP |
| 9 | 1 | 6207 | Bearing |
| 10 | 1 | 47172 | Circlip I72 |
| 11 | 1 | 30212025 | Bolt M12 x 1.75 x 25 UNI 5739 |
| 12 | 41 | 34121010 | Washer |
| 13 | 10 | 31510020 | Bolt M10 x 1.5 x 20 UNI 5739 |
| 14 | 1 | 4001590 | External Support C125 |
| 14 | 1 | 4001592 | External Support C145 |
| 14 | 1 | 4001593 | External Support C165 |
| 14 | 1 | 4001594 | External Support C185 |
| 15 | 21 | 31510025 | Bolt M10 x 1.5 x 25 UNI 5739 |
| 16 | 1 | 4001514 | Upper 3rd Point |
| 17 | 23 | 34100012 | Nut M12 UNI 5587 |
| 18 | As Req'd* | 34121012 | Washer UNI 1751 |
| 19 | 14 | 31512035 | Bolt M12 x 1.75 x 35 UNI 5739 |
| 20 | 1 | 4728795 | Bevel Pinion Z=13 |
| 21 | 1 | 3441014 | Oil Plug M14 x 1.5 |
| 22 | 1 | 4658818 | Gearbox |
| 23 | 1 | 3442014 | Plug M14 x 1.5 |
| 24 | 1 | 4598808 | Spacer |
| 25 | 1 | 6307 | Bearing |
| 26 | 1 | 4008788 | Shaft Support C105 |
| 26 | 1 | 4008789 | Shaft Support C125 |
| 26 | 1 | 4008790 | Shaft Support C145 |
| 26 | 1 | 4008791 | Shaft Support C165 |
| 26 | 1 | 4008792 | Shaft Support C185 |
| 27 | 1 | 4148775 | Chain Plate |
| 28 | 2 | 4788744 | Gasket |
| 29 | 1 | 4788793 | Gasket |
| 30 | 1 | 4938843 | Cover |
| 31 | 1 | 4001577 | External Support C105 |
| 32 | 1 | 4131503 | External Side Plate |
| 33 | 2 | 6320040 | Circlip E40 |
| 34 | 1 | 4228706 | Gear Z=17 |
| | | | |

| REF# | QTY. | PART NO. | <u>DESCRIPTION</u> |
|------|------|----------|-----------------------------------|
| 35 | 1 | 6308 | Bearing |
| 36 | 1 | 4218939 | Shaft C85 |
| 36 | 1 | 4218835 | Shaft C105 |
| 36 | 1 | 4218837 | Shaft C125 |
| 36 | 1 | 4218839 | Shaft C145 |
| 36 | 1 | 4218840 | Shaft C165 |
| 36 | 1 | 4218841 | Shaft C185 |
| 37 | 1 | E8201507 | AX5 590/847 1025010-1345018 CP SC |
| 38 | 1 | 6470118 | Washer |
| 39 | 2 | 34106012 | Stop Nut M12 |
| 40 | 1 | 6308-2RS | Bearing |
| 41 | 1 | 4728794 | Ring Bevel Gear Z=19 |
| 42 | 1 | 3444014 | Plug M14 x 1.5 |
| 43 | 2 | 6420114 | Washer |
| 44 | 2 | 31510030 | Bolt M10 x 1.5 x 30 |
| 45 | 2 | 4001506 | Lower Junction for 3rd Point |
| 46 | 2 | 4201513 | U Bolt |
| 47 | 2 | 4131519 | Bracket |
| 48 | 2 | 4301520 | U Bolt |
| 49 | 1 | 4001468 | Frame C105 |
| 49 | 1 | 4001470 | Frame C125 |
| 49 | 1 | 4001472 | Frame C145 |
| 49 | 1 | 4001473 | Frame C165 |
| 49 | 1 | 4001474 | Frame C185 |
| 50 | 1 | 4648026 | Cover |
| 51 | 1 | 6560010 | Grease Nipple M10 x 1.5 |
| 52 | 4 | 31510035 | Bolt M10 x 1.5 x 35 |
| 53 | 2 | 4301590 | Pin |
| 54 | 1 | 4001456 | Right Skid |
| 55 | 1 | 4148030 | Cover |
| 56 | 1 | 4208774 | Idler Gear Pin |
| 57 | 1 | 4001448 | Gearing Side Plate |
| 58 | 1 | 34107024 | Nut M24 UNI 7473 |
| 59 | 1 | 4788745 | Gasket |
| 60 | 1 | 3442022 | Plug M22 x 1.5 |
| 61 | 1 | 4018702 | Cover |
| 62 | 1 | 45X62X10 | Oil Seal 45 x 62 x 10 PP |
| 63 | 1 | 6207 | Bearing |
| 64 | 1 | 34018012 | Washer |
| 65 | 2 | 4788219 | Gasket |
| 66 | 1 | 4001568 | Pin C105 |
| 66 | 1 | 4001570 | Pin C125 |

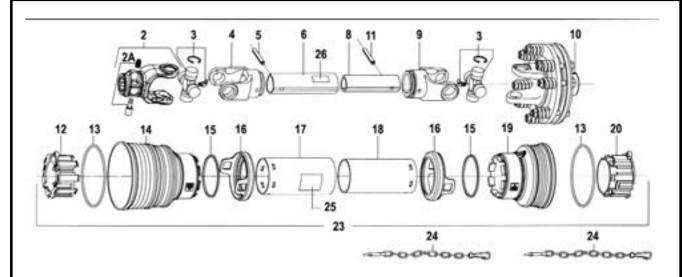
| REF# | QTY. | PART NO. | DESCRIPTION |
|------|-----------|----------|-------------------------------|
| 66 | 1 | 4001572 | Pin C145 |
| 66 | 1 | 4001573 | Pin C165 |
| 66 | 1 | 4001574 | Pin C185 |
| 67 | 1 | 4728707 | Idler Gear Z=36 |
| 68 | 1 | 4598935 | Idler Gear Spacer |
| 69 | 1 | 4674003 | Chain MG 13 |
| 70 | 1 | 4708028 | Hub |
| 71 | 1 | 4648025 | Support |
| 72 | 1 | 4148029 | Cover |
| 73 | 1 | 4001234 | Stand Leg |
| 74 | 1 | 4236115 | Pin |
| 75 | 1 | 6351003 | Split Pin |
| 76 | 1 | 4001682 | Support |
| 77 | 6 | 34100010 | Nut M10 UNI 5587 |
| 78 | 3 | 34120012 | Washer 12 UNI 6592 |
| 79 | 1 | 4001526 | Rear Board C105 |
| 79 | 1 | 4001528 | Rear Board C125 |
| 79 | 1 | 4001530 | Rear Board C145 |
| 79 | 1 | 4001531 | Rear Board C165 |
| 79 | 1 | 4001532 | Rear Board C185 |
| 80 | As Req'd* | 4811401 | Left Blade |
| 81 | As Req'd* | 4811400 | Right Blade |
| 82 | 1 | 4001457 | Left Skid |
| 83 | 15 | 31508025 | Bolt M8 x 1.25 x25 UNI 5739 |
| 84 | 16 | 34121008 | Washer UNI 1751 |
| 85 | As Req'd* | 31412035 | Bolt M12 x 1.25 x 35 |
| 86 | 12 | 31512030 | Bolt M12 x 1.75 x 30 UNI 5739 |
| 87 | As Req'd* | 34101012 | Nut M12 UNI 5587 |
| 88 | 1 | 31508020 | Bolt M8 x 1.25 x 20 UNI 5739 |
| 89 | 1 | 4728922 | Hub |
| 90 | 1 | 4148040 | Cover |
| 91 | 1 | 4001493 | Rotor C105 |
| 91 | 1 | 4001495 | Rotor C125 |
| 91 | 1 | 4001497 | Rotor C145 |
| 91 | 1 | 4001498 | Rotor C165 |
| 91 | 1 | 4001499 | Rotor C185 |
| 92 | 1 | 3840035 | Self Locking Metal Ring |
| 93 | 1 | 4728708 | Gear Z=26 |
| 94 | 1 | 6310100 | Circlip |
| 95 | 1 | 6309 | Bearing |
| 96 | 1 | 50X90X10 | Oil Seal 50 x 90 x 10 |

| REF# | QTY. | PART NO. | DESCRIPTION |
|------|------|-------------|-------------------------------------------|
| 97 | 1 | 4788217 | Gasket |
| 98 | 1 | 4708071 | Support |
| 99 | 6 | 31712020 | Bolt M12 x 1.75 x20 UNI 5931 |
| 100 | 1 | 4302183 | Chain Plate |
| 101 | 1 | 4212214 | Spring |
| 102 | 2 | 34120008 | Washer |
| 103 | 2 | 31508016 | Bolt M8 x 1.25 x 16 UNI 5739 |
| 104 | 4 | 34120010 | Washer UNI 6592 |
| 105 | 2 | 4531713 | Quick Hitch Lower Bushing |
| 106 | 1 | 4531714 | Quick Hitch Upper Bushing |
| 107 | 1 | 8833003 | Quick Hitch Kit |
| 108 | 2 | 30306 | Bearing |
| 109 | 1 | 6800030 | Seal |
| 110 | 3 | 30622080120 | Allen Bolt Countersunk M8 x 20 Brg. Cover |
| 111 | 3 | 34100008 | Nut M8 |

*TINE CHART

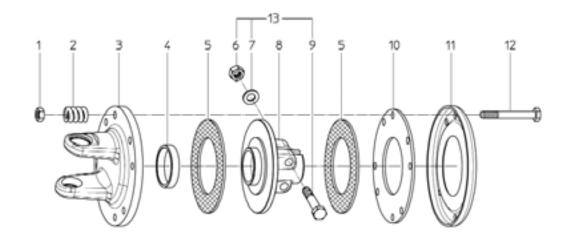
| MODEL NO. | NUMBER | OF TINES | NUMBER OF | NUMBER OF WASHERS | |
|------------|--------|----------|--------------|----------------------|--|
| WIODEL NO. | R.H. | L.H. | BOLTS & NUTS | | |
| C105 | 15 | 15 | 60 | 60 | |
| C125 | 18 | 18 | 72 | 72 | |
| C145 | 21 | 21 | 84 | 84 | |
| C165 | 24 | 24 | 96 | 96 | |
| C185 | 27 | 27 | 108 | 108 | |

DRIVESHAFT ASSEMBLY



| REF# | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|----------------------------------|
| 2 | 1 | 1025010 | Yoke Assembly, Tractor End |
| 2A | 1 | 1581038 | Push Pin Kit |
| 3 | 2 | 1005020 | Cross Assembly |
| 4 | 1 | 1705027 | Outer Tube Yoke |
| 5 | 1 | 6331075 | Roll Pin 8 x 75 Outer Tube |
| 6 | 1 | 1527044 | Outer Tube |
| 8 | 1 | 1526044 | Inner Tube |
| 9 | 1 | 1705029 | Inner Tube Yoke |
| 10 | 1 | 1345018 | Torque Limiter, 2 Friction Discs |
| 11 | 1 | 6331065 | Roll Pin 8 x 65 Inner Tube |
| 12 | 1 | 1785710 | Tube Bearing |
| 13 | 2 | 1215733 | Stiffening Ring |
| 14 | 1 | 1785703 | Standard Cone |
| 15 | 2 | 1215735 | Stop Ring |
| 16 | 2 | 1885709 | Safety Sleeve |
| 17 | 1 | 1776034 | Outer Tube Shield |
| 18 | 1 | 1877034 | Inner Tube Shield |
| 19 | 1 | 1785702 | Short Cone |
| 20 | 1 | 1785711 | Tube Bearing, Inner Tube |
| 23 | 1 | 90SC5034 | Complete Protection |
| 24 | 2 | 1006065 | Anti-rotation Chain |
| 25 | 1 | 1140001 | Outer Decal |
| 26 | 1 | 1140003 | Inner Decal |

SLIP CLUTCH ASSEMBLY



| SUPPRIO TORQUE TABLE | | | | | |
|--------------------------------------------|----------------------|--|--|--|--|
| SPRINGS COMPRESSION HEIGHT SETTING [MI] | GLPPING TOROUG SHOW! | | | | |
| 29 | 300 | | | | |
| 28 | 450 | | | | |
| 27 | 750 | | | | |

| REF# | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|------------------------------|
| 1 | 8 | 6411010 | Screw Nut (For Spring) |
| 2 | 8 | 1215012 | Spring |
| 3 | 1 | 1705006 | Flange With Yoke |
| 4 | 1 | 1705009 | Bushing |
| 5 | 2 | 1805010 | Friction Disc |
| 6 | 2 | 6410112 | Screw Nut |
| 7 | 2 | 6412112 | Spring Washer |
| 8 | 1 | 1705005 | Hub With Flange |
| 9 | 2 | 6141270 | Bolt |
| 10 | 1 | 1135008 | Inner Disc |
| 11 | 1 | 1135007 | Pressure Disc |
| 12 | 8 | 6001085 | Bolt (For Spring) |
| 13 | 1 | 6761270 | Locking Bolt Kit Replacement |

LIMITED WARRANTY

GERRMORE INC.

GEARMORE, INC., warrants each new Gearmore product to be free from defects in material and workmanship for a period of twelve (12) months from date of purchase to the original purchaser. This warranty shall not apply to implements or parts that have been subject to misuse, negligence, accident, or that have been altered in any way.

Our obligation shall be limited to repairing or replacement of any part, provided that such part is returned within thirty (30) days from date of failure to Gearmore through the dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential or contingent, to person or property. This warranty does not extend to loss of crops, loss because of delay in harvesting or any other expenses, for any other reasons.

Gearmore in no way warranties engines, tires, or other trade accessories, since these items are warranted separately by these respective manufacturers.

Gearmore reserves the right to make improvements in design or changes in specification at any time, without incurring any obligations to owners or units previously sold.

GEARMORE, INC. 13477 Benson Ave. Chino, CA 91710

Always refer to and heed machine operating warning decals on machine.

The serial number of this product is stored in our computer database, thus submitting a warranty registration card is not required.