# WESSEX CULTIVATOR RC - SERIES RC-120 - RC-150





# OPERATOR'S AND PARTS MANUAL

CE

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Congratulation for purchasing your new Wessex Cultivator!

This Cultivator has been designed and manufactured following all safety and quality requirements needed for a safe and satisfactory use over time.

A careful reading of this manual will permit you to familiarize with your new equipment, and will provide you all the tools needed to use it safely.

A proper maintenance and knowledge of the safety rules of use will allow to obtain the best performance and a long service life of the machine.



The Safety Alert Symbol used throughout this manual and on safety decals of the machine indicates the presence of potential hazard to the operator. When you see this symbol, be alert and carefully read the message that follows it.

The Safety Alert Symbol is used in conjunction with following Signal Words, according to the degree of possible injuries that may result operating the implement:

#### **DANGER**

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

#### **WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

## **CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### IMPORTANT

Indicates instructions or procedures that, if not observed, can cause damage to equipment or environment.

#### NOTE

Indicates helpful information.

READ, UNDERSTAND, and FOLLOW the safety messages following the Safety Alert Symbol and Signal Words. Failure to comply with safety messages could result in serious bodily injury or death.

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# **1. ABOUT THIS MANUAL**

The operator must read the manual for a correct understanding of the hazards that may present when operating the Cultivator, as well as for obtain optimum performance from the machine.

The manual is part of the machine, it must be kept in good condition and remain with the machine even in case of resale, until its demolition. In case of loss or damage, request a new copy to the Manufacturer or your Dealer.

The information, descriptions and illustrations in this manual describes the state of the product at the time of its publication, and may not reflect the product in the future.

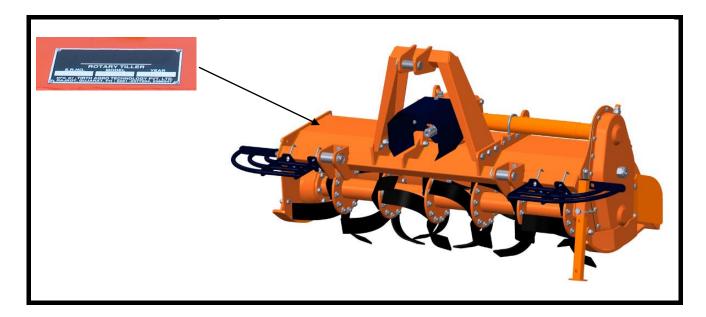
The Manufacturer reserve the right to make design improvements or changes in specifications without incurring in any obligation to install them on units previously sold.

Text, illustrations and drawings of this manual cannot be disclosed or transmitted, in whole or in part, to third parties without the written permission of the Manufacturer. All rights are reserved.

# **2. INTRODUCTION**

#### **2.1. IDENTIFICATION**

Each Cultivator has a plate for unique identification. Any request for assistance or information regarding the machine must be directed to the Manufacturer or Dealer always referring to the model and serial number as shown on the nameplate affixed to the machine:



#### 2.2. INTENDED USE

The RC-SERIES Cultivators are designed to be used uniquely for horticultural, agricultural, or commercial applications, to till soil for seedbed and planting preparation.

They are designed to be mounted on tractors equipped with hydraulic lift and universal three point hitch that can support the implement weight, and driven by the power of the tractor through the PTO driveshaft.

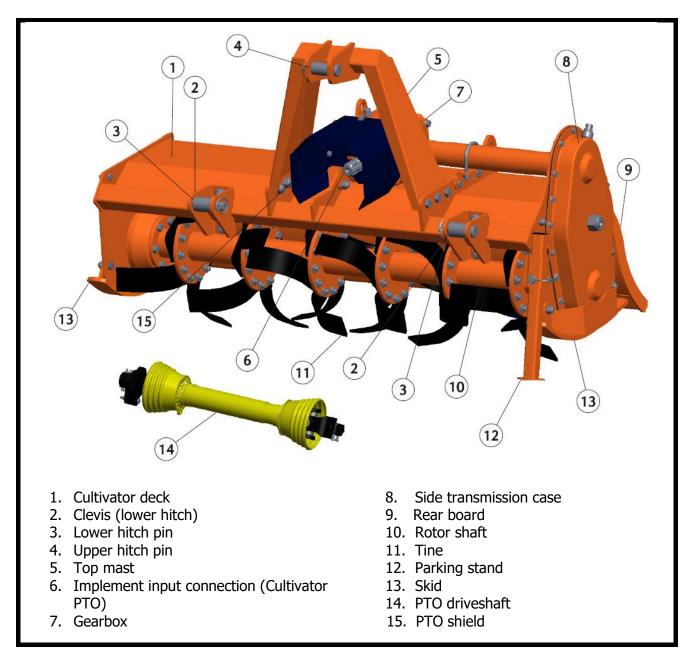
The tractors used to operate the RC-SERIES Cultivators must have the following requirements:

Hitch Category: PTO: Horsepower: 3-point Cat. I standard 540 RPM, 6-spline, 1 3/8 Z6 Cultivator (RC-120): 20-30 HP Cultivator (RC-150): 25-40 HP

## 

Any use of the machine other than the intended use is non-intended use, and is to be considered as unauthorized and dangerous. The manufacturer assumes no liability for damage resulting from non-intended use.

#### 2.3. MAIN PARTS DESCRIPTION



#### NOTE

Unless otherwise indicated, images shown in this manual refer to the RC-150 Cultivator.

## 2.4. CULTIVATOR SPECIFICATIONS

		CULTIVATOR MODEL	
		(RC-120)	(RC-150)
Overall dimensions	mm	1340 x 805 x 600	1645 x 805 x 600
Tilling width	in	45.6"	58.2"
Tilling width	cm	115.82	147.83
Recommended Tractor HP range	HP	20-35	25-40
3-point Hitch type	-	Cat. I, compat. Quick Hitch I cat. ASAE	Cat. I, compat. Quick Hitch I cat. ASAE
Frame off-set	in	4"	-
Number of Flanges on Rotor	No.	6	7
Number of tines per Flange	No.	36	42
PTO Input speed	rpm	540	540
Rotor Shaft Speed	rpm @540	242	242
Standard Tine Construction	-	curved	curved
Transmission type	-	gear	gear
Max Working depth	cm	16.51	16.51
Rotor tube diameter	mm	70	70
Rotor Swing Diameter	mm	375	375
Driveline safety device	-	slip clutch	slip clutch
Weight (driveline	lbs	397	441
excluded)	Kg.	181	200

# **3. SAFETY**

Proper use of equipment, a strict observance of the safety messages listed below and application of all reasonable practices to avoid any risks, prevents accidents or injury, allows the machine working better and longer, and minimize the failures. The manufacturer assumes no liability for any damage resulting from not applying the behavioral rules indicated into the manual.

#### 3.1. GENERAL SAFETY INSTRUCTION

## 

The machine must be used only by authorized and well trained operators. The operator must have read and understood the instructions of this manual, it must make adequate preparation for the proper use of the machine and must hold a driving license. In case of doubt about the use of the machine and/or the interpretation of this manual, the operator must contact the Manufacturer or the Dealer.

## 

The manual must always remain with the machine. In case of loss or damage, request a new copy to the Manufacturer or your Dealer.

## 

Follow strictly the rules prescribed by the safety pictograms applied to the machine.

### 

Be sure that all safety pictograms are legible. If pictograms are worn, they must be replaced with others obtained from the Manufacturer, and placed in the position indicated by this manual.

## 

Before using the machine, make sure that all safety devices are installed and in good working conditions. In case of damages of shields, replace them immediately.

## 

Is absolutely forbidden to remove or alter safety devices.

## 

Before starting, and during operation of the Cultivator, make sure there are no people or animals in the operation area: the machine can project material from the back, with risks of serious injury or death.

## 

Pay maximum attention to avoid any accidental contact with rotating parts of the machine.

## 

During operation, adjustment, maintenance, repairing or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE).

## **DANGER**

Do not operate the implement while wearing loose fitting clothing that can give rise to entanglement in parts of the machine.



Do not operate the implement when tired, not in good condition or under the influence of alcohol or drugs.

## 

If the use of the machine is required at night or in conditions of reduced visibility, use the lighting system of the tractor and possibly an auxiliary lighting system.

#### 3.2. EQUIPMENT SAFETY INSTRUCTIONS

#### **WARNING**

Use the Cultivator for its intended purpose only. Improper use can damage the Cultivator and cause serious injury to persons, animals, or death.

## 

The machine should be used by a single operator driving the tractor.

#### **WARNING**

Any unauthorized modification of the machine may cause problems in safety and relieves the Manufacturer from any liability for damages or injuries that may result to operators, third parties and objects.

## **WARNING**

Before using the machine, familiarize yourself with its controls and its working capacity.

#### 

Do not leave the Cultivator unattended with tractor engine running.

## 

Do not operate Cultivator on too muddy, sandy or rocky soils.

#### **WARNING**

Keep the machine clean from debris and foreign objects which may damage functioning or cause injury.

#### **WARNING**

Do not use the machine if the category of the connecting pins of the Cultivator does not match that of the tractor hitch system.

#### **WARNING**

Do not use the machine with missing bolts, screws, pins or safety pins.

#### **WARNING**

Never use the machine to transport or lift people, animals or objects.

#### **WARNING**

Make certain, by adding front ballast, that at least 20% of the total weight (tractor, implement and ballast) is on the front axle of the tractor, to ensure stability.

## **WARNING**

Before engaging the tractor PTO, make sure the tractor PTO speed is set as required for the Cultivator (540 rpm). Do not over speed PTO or machine breakage may result.

## 

Do not operate the Cultivator if the driveshaft is damaged. The driveshaft could be subject to breakage during operation, causing serious injury or death. Remove the driveshaft and replace it with an undamaged.

#### 3.3. OPERATING SAFETY INSTRUCTIONS

#### **WARNING**

Before using the machine, be sure to have cleared the operating area from obstacles (stones, branches, debris, etc...). Mark all the obstacles that cannot be eliminated (e.g. by means flags).

## 

Never engage the tractor PTO in the presence of people close to the driveshaft. The body, hair or clothing of a person can get caught in rotating parts, causing serious injury or death.

## 

Before engaging the PTO and during all operations, make sure that no person or animal is in immediate area of action of the machine. Never use the Cultivator if people are in his working area.

## 

It's absolutely forbidden to stand near the Cultivator with moving parts.

## 

The operator must operate Cultivator lifting/lowering only from the driving seat of the tractor. Do not perform lifting maneuvers on side or behind the tractor.

## 

Before making changes in direction, turns or going in reverse, slightly lift the Cultivator from the ground after disengaging the power take-off, to avoid damage to the machine.

## 

In presence of steep slopes (greater than 15 degrees) the tilling action may cause instability of the tractor, with risk of tipping and consequent serious injury or death hazard. Consult the manual for the tractor to determine the maximum slope that the tractor is able to deal with.

## 

Always disengage the PTO before raising the Cultivator, and never engage the PTO with the Cultivator in the raised position. The machine might throw objects at high speed, causing serious injury or death.

## 

Never leave the driver's seat when the tractor is turned on. Before leaving the tractor, lower the Cultivator to the ground, disengage the PTO, insert the parking brake, stop engine and remove the key from the control panel.

## **DANGER**

The PTO shields of tractor and implement side, the driveshaft shielding and the driveshaft retaining chains must be properly installed and in good condition, to avoid risk of entanglement with serious injury or death.

## 

Before engaging the PTO of the tractor, always make sure that the drive shaft is mounted in the correct direction, and that its clamping elements are properly connected both to tractor side and to Cultivator side.

## **WARNING**

Stop operating immediately if blades strike a foreign object. Repair all damage and make certain rotor and blades are in good condition before resuming operation.

## 

Always disengage the tractor PTO when the driveshaft exceed an angle of 10 degrees up or down while operating. An excessive angle with driveshaft rotating can break the driveshaft and cause flying projectiles.

## 

Avoid clutch's overheating caused by too long or frequent slipping of the clutch, since it can damage the clutch components. Before checking slip clutch, make sure it has cooled. Clutch could be extremely hot and cause severe burn.

## 

Prolonged use of the Cultivator can cause overheating of the gearbox. Do not touch the gearbox during use and immediately after, it could be extremely hot and cause severe burn.

#### **WARNING**

All adjustment operations on the Cultivator must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the Cultivator lowered to the ground or on security stands, the ignition key off and the parking brake set.

#### 3.4. TRANSPORTING SAFETY INSTRUCTIONS

#### **WARNING**

Before transporting, determine the stopping characteristics of the tractor and implement.

## A WARNING

Transport only at speeds where you can maintain control of the equipment.

#### **WARNING**

When driving on roads, the implement must be in transport position adequately raised from the road surface, with tractor lifting hydraulics locked so that the Cultivator cannot be lowered accidentally.

## **DANGER**

The implement may be wider than the tractor. Pay attention during transporting to persons, animals or obstacles exposed.

#### A WARNING

When turning, use extreme care and reduce tractor speed.

#### **WARNING**

Do not operate the tractor with weak or faulty brakes or worn tires.

### 

Always use tractor lighting system and auxiliary lighting system for an adequate warning to operators of other vehicles, especially when transporting at night or in conditions of reduced visibility.

### 

In case of Cultivator lifting, make sure that the lifting device chosen is suitable to perform the operation safely, and use only the lifting points prescribed on Cultivator.

#### **3.5. MAINTENANCE SAFETY INSTRUCTIONS**

#### **WARNING**

All maintenance and repairing operations must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the Cultivator lowered to the ground or on security stands, the ignition key off and the parking brake set.

#### 

Perform repairs and replacements necessary to the machine using only original spare parts provided by the manufacturer or your dealer.

### 

Perform maintenance operations always using appropriate Personal Protective Equipment (protective eye glasses, hard hat, hearing protection, safety shoes, overall and work gloves, filter mask).

## 

Before any maintenance operation, make sure that the parts which may become hot during use (friction clutch, gear box...) have cooled.

#### **WARN4435G**

Do not perform repairs that you do not know. Always follow the manual instructions and in case of doubt contact the Manufacturer or your dealer.

#### **DANGER**

Do not swallow fuels or lubricants. In case of accidental contact with eyes, rinse well with water and consult a doctor.

#### 3.6. STORAGE SAFETY INSTRUCTIONS

#### **WARNING**

Never leave the tractor unattended with the Cultivator in lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing.

## 

Following operation, or before unhooking the Cultivator, stop the tractor, set the brakes, disengage the PTO, lower the attached Cultivator to the ground, shut off the engine, remove the ignition key and wait for all moving parts to stop.

## **WARNING**

Make sure all parked machines are on a hard, level surface and engage all safety devices.

## 

Place support blocks under Cultivator as needed to prevent unit from tipping over onto a child and/or an adult. A Cultivator that tips over can result in injury or death.

## 

Store the unit in an area away from human activity.

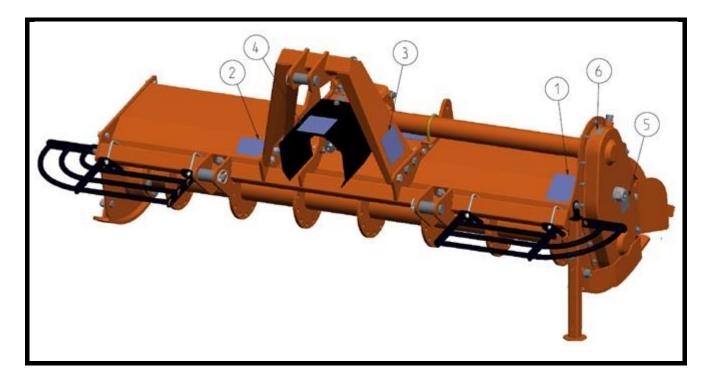
#### 3.7. SAFETY LABELS

The safety labels applied on the machine give fundamental information for using the machine safely.

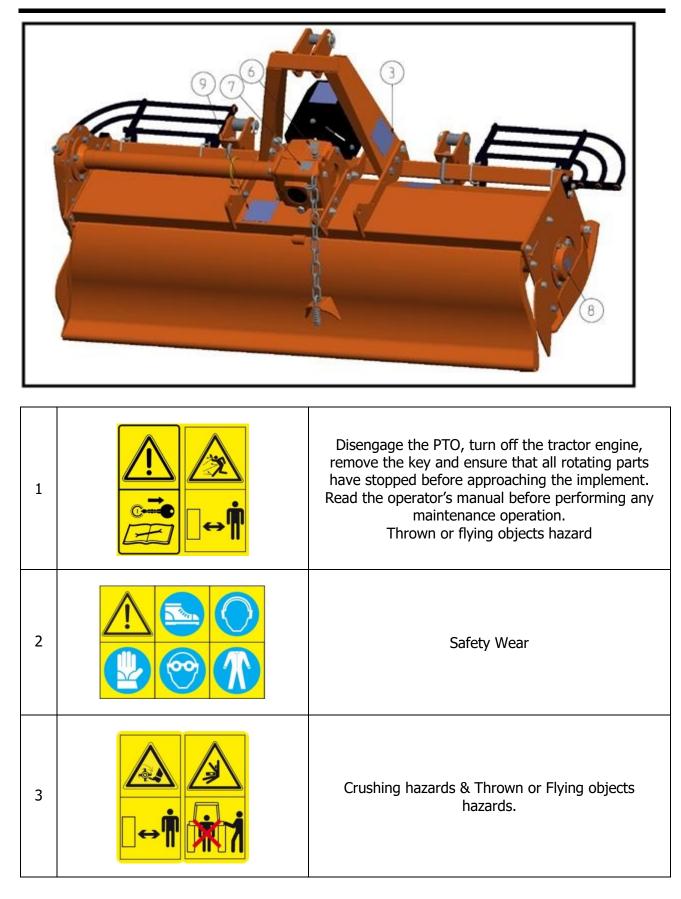
Make sure safety labels are in good conditions. If pictograms are worn, they must be replaced with others obtained from the manufacturer and placed in the position indicated by this manual.

Make sure the safety labels are legible. If necessary, wipe them by a cloth, with soap and water.

#### SAFETY LABELS POSITION AND DESCRIPTION



**RC-Series Rotary Cultivators** 



4		Operate only with 540 rpm PTO.
5		Rotating Gears
6	OIL	Oil filling point
7	3	Lifting point
8	GREASE	Grease filling point
9	STOP	Hand Hazard

# 4. SET UP

The Cultivator is delivered fully assembled and equipped with a driveshaft with torque limiter (clutch discs) and related operating manual.

When the machine is delivered, check that there is no damage to the Cultivator or driveshaft. In case of damage or missing parts immediately notify the manufacturer or your dealer.

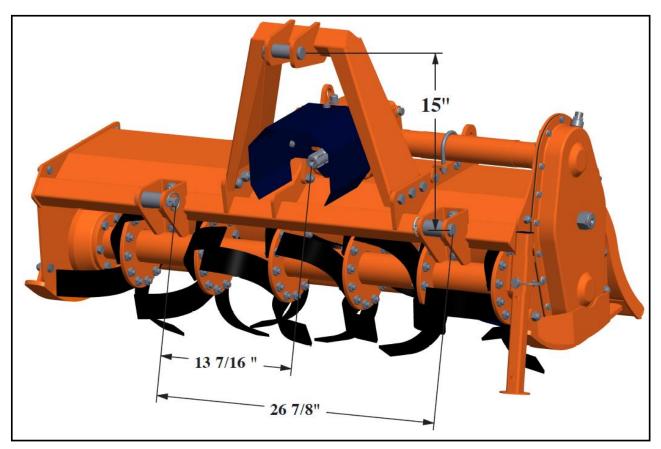
#### 4.1. LOWER HITCHES POSITIONING

The RC-SERIES Cultivators are designed to be mounted on tractors equipped with:

- 3-point Hitch Category I (ISO 730 standard);
- Quick Hitch Category I (ASABE Standard).

The position of the lower hitches must be adjusted accordingly.

If the tractor is equipped with a Quick Hitch Category I (ASABE Standard), verify that the lower clevises show the pins oriented up (see figure), so that the distance between upper and the lower pins is 15" (381 mm), as required from the standard.



If this not occurs, proceed as follows for each of the two clevises::

- remove the U-bolt and the clevis from the square tube;
- invert the clevis orientation and reposition it on the square tube at distance of 13 7/16" from the center of Cultivator PTO. At the end of the operation the lower clevises should be positioned symmetrically respect to Cultivator PTO, at distance of 26 7/8" (683 mm);
- re-tighten the U-bolt, referring to the tightening table of this manual.

If the tractor is equipped with a 3-point Hitch Category I (ISO 730 standard), verify that the lower clevises show the pins oriented down (opposite than figure above), so that the distance between upper and the lower pins is 18" (460 mm approx), as required from the standard.

If this not occurs, proceed as follows for each of the two clevises:

• remove the U-bolt and the clevis from the square tube;

- invert the clevis orientation and reposition it on the square tube at distance of 13 7/16" from the center of Cultivator PTO. At the end of the operation the lower clevises should be positioned symmetrically respect to Cultivator PTO, at distance of 26 7/8" (683 mm);
- re-tighten the U-bolt, referring to the tightening table of this manual;
- remove from upper and lower pins the bushings provided for coupling with Quick Hitch, through the extraction of elastic pins. Replace the elastic pins when finished. Store the bushings for possible future use.

#### 4.2. CONNECTING TO THE TRACTOR

To connect the Cultivator to the tractor the operator must do the following:

- drive the tractor in reverse, up to align the rear lifting arms to lower hitches of the Cultivator in parking;
- set the tractor's parking brake, stop engine, remove the ignition key and get off the tractor;
- connect the lifting arms of the tractor to the lower hitches of the Cultivator, through the use of the pins and the relative safety split pins;
- raise the Cultivator until PTOs of tractor and machine are at the same height, then adjust the 3point top link so that the front of the machine is leveled to the back (the axis of the Cultivator PTO must be parallel to the ground), in order to limit stress transmitted to the Cultivator through the cardan shaft;
- make sure that left side of the Cultivator is leveled with the right, by adjusting the tractor lifting arms, then lock the arms to prevent swinging that could compromise the stability of tractor and machine;
- finally adjust the parking stand, placing it at the highest point by means of the related elastic pin.

#### 4.3. DRIVELINE INSTALLATION

Before installing the driveshaft, the operator must read the manuals of driveshaft and tractor, checking in particular that rpm and direction of rotation of the tractor PTO match those of the Cultivator.

If the direction of rotation of the PTO tractor does not match that of the Cultivator, contact the manufacturer or your dealer.

To connect the driveshaft to the tractor and implement, the operator must:

- park tractor and Cultivator on a flat surface, with parking brake set, engine off, and ignition key removed;
- check that safety devices of driveshaft, Cultivator and tractor are in good condition, otherwise provide for their replacement;
- remove the PTO shield of the Cultivator through the fixing screws;
- position the driveshaft with clutch turned towards the implement side;
- insert the clutch hub on the Cultivator PTO, then ensure its tightening onto shaft through its fastener;
- replace the PTO shield of the Cultivator through the fixing screws;
- insert the driveshaft yoke on the tractor PTO, then ensure its tightening onto shaft through its fastener;

• hook to the tractor and Cultivator the two retaining chains of the the driveline shielding, to prevent shielding rotation during functioning of the machine.

#### **DRIVELINE LENGTH CHECK**

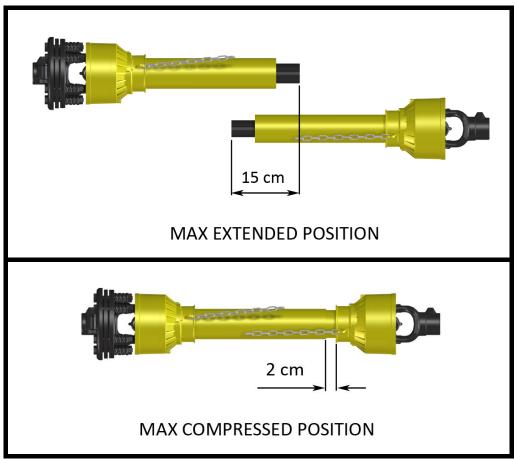
Before operating the Cultivator, ensure that the size of driveshaft is adequate. The driveshaft supplied with the machine has a standard length, therefore it may need an adaptation of the length, depending of the tractor which the Cultivator is combined.

The length of the driveshaft must be such to:

- avoid bottom out of the transmission tubes, when the driveshaft is in compressed position (when Cultivator is raised up off the ground);
- ensure an overlapping of the transmission tubes enough to transmit the torque required, when the driveshaft is in max extension (when Cultivator is in its lowest position in the ground).

When the driveshaft is at its minimum length (max compressed position), there must be at least a 2 cm of distance between the ends of each transmission tube and the yokes side.

When the driveshaft is at its maximum operational extension, there must be an overlap between the tubes profiles of 15 cm at least.



A driveshaft that is too long may cause structural damages to the tractor and machine. If the driveshaft is too long, it may be adapted by removing it and shortening the tubes according to the instructions provided by the manufacturer in its use and maintenance manual.

A driveshaft too short can cause disengage of the tubes during operation, with severe hazard for the operator and structural damage to the tractor and machine. If the driveshaft is too short, it must be replaced with a longer one. In this case contact the manufacturer or your dealer.

#### IMPORTANT

- before operating the Cultivator the first time, make sure that the driveshaft is lubricated in accordance with how indicated in the instruction booklet;
- before operating the Cultivator the first time, and after long periods of inactivity, make sure that the driveline clutch has run a short "run in" in accordance with what indicated in the instruction manual of the manufacturer, removing the possible oxidation of the components that may compromise the correct slipping during the usage (see also section "Maintenance");
- always engage the tractor PTO at low rpm to minimize the effect of the peak torque on the driveline and the machine.

#### 4.4. TRACTOR-CULTIVATOR STABILITY

The weight of the machine modifies the stability of the system tractor-Cultivator, resulting in loss of steering control and braking.

The front axle of the tractor should always loaded with at least 20% of the overall weight of the system tractor-Cultivator.

#### 

Check the lifting capacity and stability of the tractor and, if necessary, applying the front ballast. To determine the appropriate characteristics of the ballast, refer to the manual of the tractor.

# **5. OPERATING**

Before operate the Cultivator, make sure you have read and understood the operating manuals of the Cultivator, tractor and PTO shaft, and followed what is described in the section "Set Up".

## 

During operation, adjustment, maintenance, repairing or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE).

Before starting work, ensure that all machine guards are in good conditions and fully functional.

During operation, the machine can throw material from the back: prevent people and animals to approach the operational area.

#### 5.1. START UP

Before the start up and before each use, perform the following pre-operation inspections and service of the implement:

- check that the Cultivator has not damaged functional parts and has all mechanical parts in good condition. Repair and / or replace the damaged parts;
- check that the Cultivator has no missing parts (pins, safety pins, plugs oil ...). Restore the missing parts;
- check that all guards and safety devices have no damages and are properly positioned. Repair and / or replace the damaged shieldings, restore the correct position;
- verify that the PTO driveshaft is properly installed (see section: Connection of the drive shaft);

- check that the driveshaft clutch is in good condition, and that its components are not subject to "sticking" (see section: Maintenance / Driveline);
- check the presence of lubricant in all greasing points of the Cultivator (driveshaft, supports...) (see sect. Maintenance / Driveline and Maintenance / Support rotor);
- check for oil leaks from the gearbox or the transmission side cover. Identify the reason of loss, then repair and / or replace the damaged components;
- check the correct oil level in the gearbox and in transmission side box (see section maintenance);
- check that blades are not excessively worn and the relating hardware is correctly tightened (see sect. Maintenance);
- check that all the Cultivator hardware is properly tightened. Refer to the tightening table in the manual for proper torque values;
- check that all safety decals are correctly positioned, in good condition and legible. Replace any damaged decals;
- check that there is no constraints that may prevent the movement of equipment. Remove any constraint.

Before the start up and before each use, make the following checks on the operating area identified for tillage:

- check that area is clear of foreign objects (rocks, branches or debris). Remove any obstacle and visibly highlight obstacles that cannot be eliminated (e.g. by means flags);
- make sure in the working area exposed there are no people or animals;
- make sure the soil to be worked is not too grassy, muddy, sandy or rocky.

#### 

Before conducting the above inspections and service, make sure the tractor engine is off, all rotation parts are completely stopped and the tractor is in park with the parking brake engaged. Make sure the Cultivator is resting on the ground or securely blocked up and the tractor lifting hydraulics locked.

Once all the checks above have been done, start tractor and the Cultivator as follows:

- start the tractor and engage the tractor PTO at low rpm, making sure that the Cultivator is NOT in the raised position but close to the ground, then increase speed engine until to 540 rpm;
- lower the Cultivator on the ground and simultaneously start driving the tractor at low speed. Subsequently increase the ground speed depending on ground conditions;
- If the environmental temperature is very cold, it's recommended to wait a few minutes with the PTO of the tractor at low rate before lowering the Cultivator completely on the ground;
- drive for a while operating the Cultivator, then stop the tractor to check the quality of the work
  performed. If you need to get off the tractor, lift the Cultivator just out of the ground, reduce
  engine speed and disengage PTO, set the parking brake, stop engine and remove the ignition
  key;

If the working depth and/or soil texture are not as desired, correct them by adjusting the skids and/or the rear cover (see section Adjustments).

#### 5.2. OPERATING INSTRUCTIONS

During operations:/ OPERATE ACCORDING TO FOLLOWING INTRUCTION

- always keep the tractor engine at rpm rate ensuring to the Cultivator the right power required for the use;
- always keep a tractor speed adequate to conditions of the soil to be worked (from 2 to 10 km / h approx.). Reduce speed in the case of hard or stony soils;
- choose a driving pattern that provides the maximum pass length and minimizes turning;
- when working in the hills, if you can do "climbing" in the sense of the slope, in any case do not work along the hillsides, making the steps from top to bottom to reduce the terrace Where possible always try to «work up» the slope. If this is not possible avoid hoeing along the contours of the hill and hoe up and down the slope to avoid a terracing effect;
- always perform changes and reverse of direction with PTO disengaged and the Cultivator slightly lifted from the ground to avoid damage to the machine;
- periodically check for foreign objects wrapped around the rotor shaft and remove them, after disengaging PTO, turning off tractor engine, and removing ignition key;
- if the blades strike a foreign object, or in case of prolonged intervention of the clutch due to an object wedged into the rotor, stop operating immediately, idle the engine speed and disengage the PTO. Wait for stopping of all rotating parts, then raise the implement and proceed to removing the object, after stopped the tractor, set the parking brake, stopped engine and removed the ignition key. Repair any damages immediately, and make sure rotor and blades are in good condition before restarting operation;
- avoid friction clutch overheating caused by too long or too frequent slipping of the clutch, since this can damage the friction plates and clutch parts.

Typical problems that may occur operating the Cultivator are described into Troubleshooting section, together with their solutions.

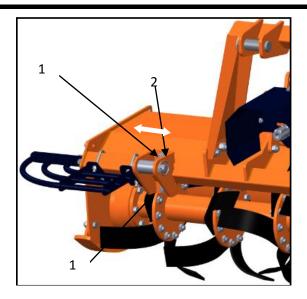
#### 5.3. ADJUSTMENTS

#### **WARNING**

All adjustment operations must be performed with the tractor engine off, the PTO disengaged, the Cultivator lowered to the ground or on security stands, the parking brake set and the ignition key off.

#### LOWER CLEVISES ADJUSTMENT

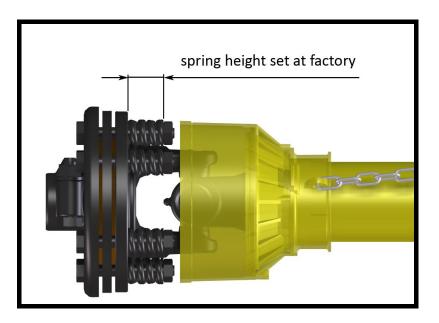
It is possible to adjust the lower hitch position loosening the bolts 1 (see picture) and sliding the clevis 2. Tighten the bolts after making any adjustment required.



## FRICTION CLUTCH ADJUSTMENT

The PTO driveshaft and friction clutch are designed to transmit adequate power to the Cultivator.

The clutch preserves the machine from overloads, through the slipping of friction discs, and limits the max torque transmissible to a calibrated value set at factory. It is recommended, therefore, to leave unchanged this value to avoid damages to the machine or to driveshaft.



An adjustment can be done, however, when the clutch slipping is too frequent, which means that the calibration is too low.

In this case, the tightening of nuts over the compressed springs will give an increase in torque transmissible.

On the contrary, a loosening of the nuts over the springs will give a decrease in torque transmissible.

#### IMPORTANT

For details about clutch adjustment, refer to the user manual of the manufacturer of the driveshaft installed.

The manufacturer is not liable for damages resulting from a wrong modification of the clutch calibration.

#### NOTE

Excessive tightening of the springs can prevent the clutch from slipping and to protect the machine from overload.

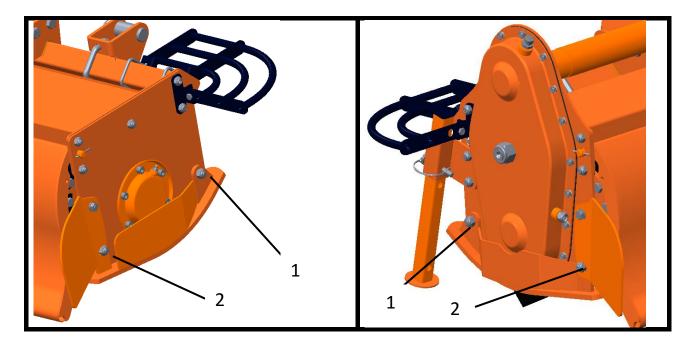
Make sure that the height of all the compressed springs is equal to prevent clutch malfunctioning.

#### SKIDS ADJUSTMENT

The working depth of the Cultivator is determined by the position of the side skids: it may be increased by raising the skids, and decreased by lowered them. It's important that both skids are adjusted at the same height.

To adjust the working depth, perform the following steps:

- lift the machine, put it safely on security stands, then switch the tractor engine off, disengage PTO, set parking brake and off the ignition key;
- loosen the in the front of the skid (bolt 1 see picture);
- unscrew and remove the bolt on the rear of the skid (bolt 2 see picture);
- adjust the height of the skid through the holes, as desired;
- reinstall the bolt 2 (refer to the tightening table of this manual for proper torque values);
- tighten the bolt 1 (refer to the tightening table of this manual for proper torque value).

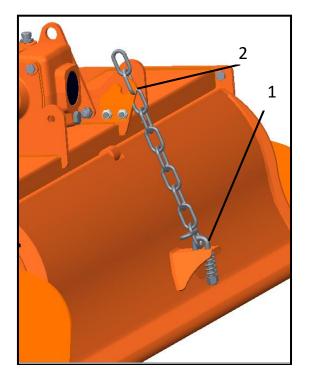


When finished, verify that both skids are at same level, and check if the front of the Cultivator is leveled to the back, when lowered to the ground. Adjust with the 3-point top link if necessary.

#### **REAR BOARD ADJUSTMENT**

The RC-SERIES Cultivators are equipped with a rear board with chain.

The position of the rear board is adjustable by varying the number of chain links included between distance XY, which remain tensioned under the weight of the board (i.e. links between the rear board U-bolt 1 and the slot of the frame 2).



- to raise the rear board, reduce the number of chain links in tension. This operation, together with the increase of the tractor ground speed, allows to have a coarser soil texture;
- to lower the rear board, increase the number of chain links in tension. This operation, together with the reduction of the ground speed, allows to have a finer soil texture.

## **WARNING**

To avoid the risk of crushing or cutting of fingers, raise or lower the rear board only from the lower edge, not from the sides.

#### 5.4. STOPPING AND DISCONNECTION

To stop the Cultivator at the end of a working session:

- bring the tractor to a complete stop;
- place the transmission in park or neutral;
- reduce the engine speed, then disengage the PTO;
- wait for stopping of all rotating parts;
- lower the implement to the ground;
- set the parking brake;
- shut down the engine and remove the key before exiting the tractor;
- do the cleaning and maintenance required to make the machine ready for later use (see Section Maintenance).

#### **WARNING**

Never leave the tractor unattended with the implement in the lifted position.

To disconnect the Cultivator from the tractor (e.g. to make a change of implement):

- adjust the skids to their lowest position (see Section Adjustments);
- adjust the parking stand to the lowest position, through the use of relative retaining pin;
- park the tractor on a dry and level surface;
- reduce the engine speed, then disengage PTO;
- wait for stopping of all rotating parts;
- lower the implement to the ground;
- set the parking brake;
- shut down the engine and remove the key before exiting the tractor;
- place safety blocks under Cultivator to prevent unit from tipping over onto a child and/or an adult. A Cultivator that tips over can result in injury or death;
- disconnect the driveline from the tractor PTO and rest it on the provided support of the Cultivator;
- disconnect the top link and rear lifting arms of the tractor from the Cultivator hitches;
- check the Cultivator stability. If needed, place additional safety blocks;
- get on the tractor, start the engine and move away from the Cultivator slowly;
- make sure the Cultivator remains stored in a protected area, to prevent that unauthorized personnel can approach it.

Before a long term storage (e.g. at seasonal end), do cleaning and maintenance operations as specified in Sections MAINTENANCE and STORAGE.

#### 5.5. TRASPORTING

To set the Cultivator for transportation, perform the following steps:

- idle tractor engine, disengage tractor PTO, and wait for stopping of all rotating parts;
- lift the Cultivator until the transport position, making sure the driveline transmission tubes does not contact tractor or Cultivator. A minimum gap of 2 cm should be leaved between the tubes and tractor and Cultivator (see also Section Driveline installation);
- lock the tractor lifting hydraulics, turn off the engine, set the parking brake, remove ignition key and get off the tractor;
- adjust the parking stand to the highest position, through the use of relative retaining pin, to prevent its possible damage during transport.

When driving on public roads, follow strictly all local laws and traffic regulations.

## 

When driving on public roads, reduce your speed, be aware of traffic around you and proceed in such a way that faster moving vehicles may pass you safely.

# **6. MAINTENANCE**

Proper and regular maintenance ensures a long life of the equipment, avoids failures and saves time and repair costs.

Periodic inspections and maintenance operations described in this section must be performed by operator in the times and terms prescribed. Failure to comply with maintenance prescriptions can

compromise the functioning and duration of the machine, and consequently invalidate the warranty.

The frequency of maintenance indicated refers to normal conditions of use: it must be intensified in severe operating conditions (frequent stops and starts, prolonged winter season etc ...).

Repairs, maintenance and modifications other than those mentioned in this paragraph should NOT be performed without consulting the manufacturer or your dealer. Manufacturer, as the case, may give the authorization to proceed with the repair together with all necessary instructions.

Wrong or inappropriate repairs or maintenance may generate abnormal operating conditions, equipment damage and generate risks for the operator.

### 

For safety reasons, all maintenance operations must be performed with tractor PTO disengaged, Cultivator stopped and completely lowered to the ground or onto support blocks, parking brake set, tractor engine shut off, and ignition key removed.

#### IMPORTANT

Respect the environment. Store or dispose of unused chemicals as specified by the chemical manufacturer.

#### 6.1. BLADES REPLACEMENT

Frequently check the wear condition of blades through visual inspection. The wear of blades is very variable depending on the type of soil.

Replacement of the blades is necessary when the operator notices increase of power absorption during tilling, or when the blade dimension is significantly reduced compared to the original.

The use of the machine with blades in bad condition compromises the quality of work.

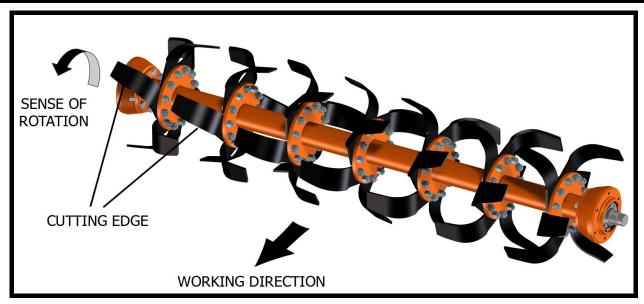
Before perform replacement of the blades:

- idle tractor engine, set the parking brake, disengage tractor PTO, and wait for all moving parts to come to a complete stop;
- place the Cultivator slightly lifted from the ground on safety blocks or mechanical stands;
- lock the control lever of the hydraulic lift of the tractor;
- turn off the tractor and remove the key.

To perform the replacement of blades:

- remove the two bolts and washers clamping the blade to the rotor flange, then remove the blade;
- position the new blade exactly instead of the worn blade, then tighten the bolts, referring to the tightening table of this manual for proper torque values. Be sure to install the blade with cutting edge in front of the direction of rotation;
- repeat the same procedure for all the other blades.

At the end of the replacement, make sure the blades have the right helical arrangement, as shown in the figure:



Periodically check the tightness of screws and nuts, and tighten if necessary.

#### IMPORTANT

Remove and install one blade at a time to ensure blades are correctly oriented when installed.

Replace worn blades only with original parts.

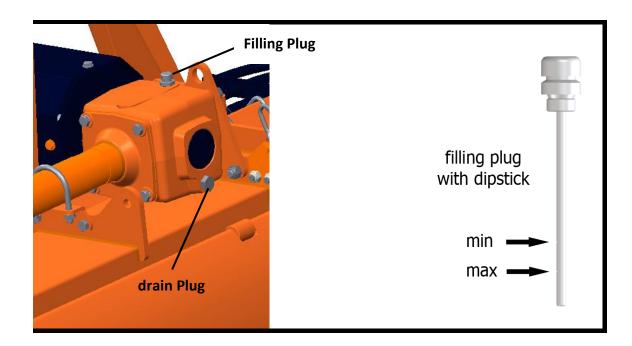
## 

Worn tines may be very sharp!

#### 6.2. GEARBOX LUBRICATION

Lubricant: SAE EP 80W90 gear oil

Check the oil level every 50 hours, making sure the oil mark left on the dipstick of the filling plug (top of gearbox) is located between the two reference marks (minimum and maximum).



If the sign is below the minimum, fill up oil till restore the correct level. The oil change must be performed:

- after the first 50 working hours;
- each 500 working hours.

To make the oil change:

- place a tank under the oil drain plug (bottom of gearbox);
- unscrew the oil drain plug and drain oil completely into the tank;
- retighten the drain plug;
- unscrew the oil filling plug;
- fill up oil till restoring the correct level (between the two reference dipstick marks) ;
- retighten the filling plug;
- dispose the discharged oil into containers for used oil.

## 

Before touching the gearbox wait until it has cooled sufficiently.

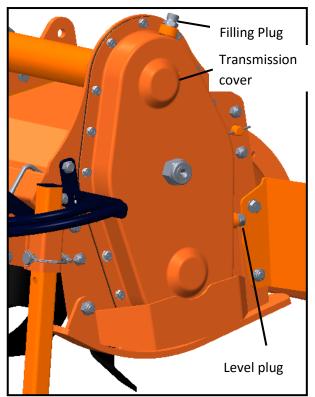
#### IMPORTANT

Frequently check possible oil leaks from Cultivator through visual inspection, and in case of leakage provide immediately proper maintenance.

Avoid oil leaks on the ground when restoring oil level or making oil change.

#### 6.3. SIDE CASE LUBRICATION

Lubricant: SAE EP 80W90 gear oil



Check the oil level every 50 hours, making sure it reachs the level plug on the transmission cover. If the oil is below this level, fill up oil till restore the level.

The oil change must be performed every 500 working hours.

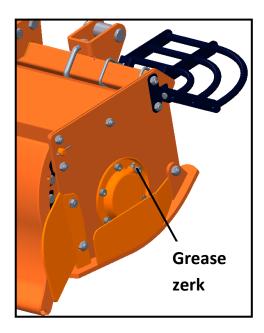
To make the oil change:

- remove the skid from the transmission side;
- place a tank under the oil level plug;
- unscrew the oil level plug and drain completely the oil into the tank;
- retighten the level plug;
- unscrew the oil filling plug (top of transmission cover);
- fill up oil till restoring the correct level (until level plug);
- retighten the filling plug;
- replace the side skid;
- dispose the discharged oil into containers for used oil.

#### 6.4. BEARING HOUSING LUBRICATION

Lubricant: SAE multi-purpose lithium-type grease

Grease the rotor hub support every 8 working, through a suitable grease gun.



#### IMPORTANT

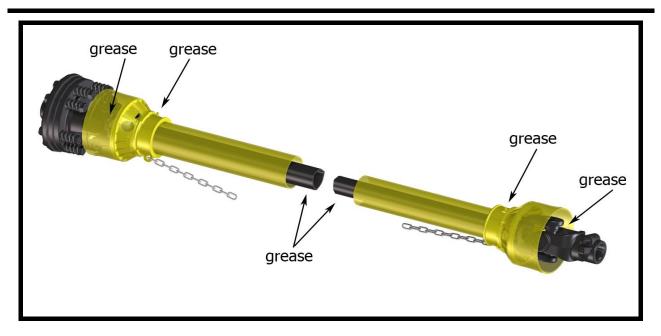
Make sure to clean the fitting zerk before using grease gun.

Do not let excess grease collect on or around parts, particularly when operating in sandy areas.

#### 6.5. DRIVESHAFT MAINTENANCE

Lubricant: SAE multi-purpose lithium-type grease

Grease crosses, sliding parts of protective shielding and driveshaft transmission tubes.



#### IMPORTANT

For details about maintenance and lubrication of the driveshaft, refer to the user manual of the driveshaft manufacturer.

Driveshaft clutch:

Exposition to the elements of Cultivator and driveshaft, or a long period of inactivity, generally results in oxidation of some clutch components, and creates "sticking" effect on the clutch.

Consequently, the torque required to the slippage of the clutch increases considerable respect to the value set at factory, and this may be cause of driveshaft breakage during operation, or damage to the tractor or implement.

To avoid it, before re-using the Cultivator, operator must perform a short "run-in" of the clutch, as follows:

- take note of the height of the compressed springs;
- loosen the bolts that compress the springs;
- connect the Cultivator to the tractor (see section Conneting to the tractor);
- connect the driveshaft (see section Driveline installation);
- start the tractor and engage PTO for few seconds, in order to cause slippage and separation of the parts "sticked" of the clutch;
- turn off the tractor, remove key and wait for all components are stopped before dismounting from tractor;
- re-tighten the bolts restoring the original springs position on the driveshaft.

#### NOTE

For replacement of the driveshaft service parts (e.g. friction discs), refer to the user manual of the driveshaft manufacturer.

# 7. STORAGE

Before leaving the Cultivator unused for a long time, it's necessary to perform following tasks to preserve the appearance and functionality of the machine, and to make easier the restart at later use:

- park the Cultivator on a flat surface, in a place dry and protected from exposition to the elements, possibly with storage temperature between 0 and 50 ° C (see Section Stopping and disconnection);
- thoroughly clean the machine, removing from the rotor all residues due to tillage, in order to avoid damage from grass and stagnant water;
- inspect carefully the machine, checking for worn and/or damaged parts. Perform immediately all repairs and/or replacements needed, in order to make the machine ready for restarting;
- in case of abrasion of painted surfaces, provide restoring the surface protection through touchup paint to prevent rust;
- make sure the safety decals are in their original positions, intact and legible. When required, replace the decals immediately;
- lubricate properly all grease points, and restore the oil levels as indicated in the maintenance Section. Use protective oil to coat the exposed mechanical components and to protect them against rust.

If the Cultivator driveshaft is equipped with a friction clutch, it is suggested to take note of the height of the compressed springs and loosen the bolts that compress the springs, to prevent the discs from "sticking" effect due to moisture, that may cause the clutch failure at restart of the activities (see also Driveshaft maintenance).

Before restart the operations, restore the original height of the springs.

# 8. SCRAPPING

In case of scrapping, the machine must be disposed in appropriate and authorized sites, according to local legislation.

Before scrapping, separate plastic parts from rubber parts, aluminum, steel, etc.

Recover and dispose any exausted oils to authorized centers for oil collecting.

# 9. TROUBLESHOOTING

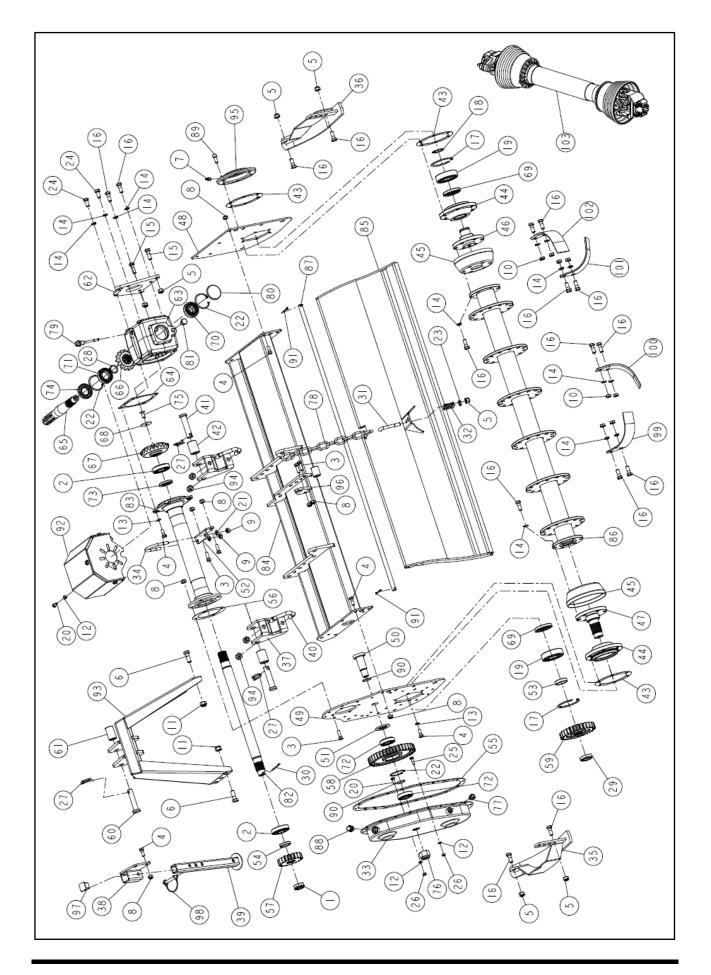
PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Gearbox/transmission case	Low oil level.	Add oil to the
noise noticeable and		gearbox/transmission case.
constant	Worn gears.	Replace gears
Intermittent	Loose blades.	Tighten blades hardware
noise from Cultivator	Gear tooth damaged.	Replace damaged gear
Noise and/or vibration	Blades worn or damaged.	Replace blades.
from Cultivator	Bearings damaged.	Replace bearings.
	the front of the Cultivator is not leveled to the back.	Adjust 3-point top link of tractor making Cultivator PTO parallel to the ground.
	Rotor damaged.	Repair/replace rotor
	Hard soil.	Reduce ground speed
Driveline vibration	Worn driveshaft .	Replace driveshaft.
	Machine lifted too high.	Lower machine and readjust
		tractor lift stop.
	Debris wrapped on rotor.	Remove debris.
Rotor stops turning	Slip clutch slipping.	Reduce load to Cultivator or adjust slip clutch.
	Broken chain in chain box.	Repair broken link.
Machine skip or leaves	Badly worn blades.	Replace worn blades.
crop residue	Slip clutch slipping.	Adjust slip clutch or reduce load.
	Ground speed too fast for conditions.	Reduce ground speed .
Smoke and/or hot smell from Cultivator	Debris wrapped around in blades and/or rotor. Low oil level in gearbox.	Remove debris.
	Slip clutch slipping.	Add oil
		Reduce load to machine or adjust slip clutch.
Gearbox overheating	Low oil level.	Add oil.
	Hard soil.	Reduce ground speed.
Blades wear frequently	Muddy or sandy soil.	Reduce ground speed.
Blades break frequently	Stony soil.	Reduce ground speed.
Oil leaking from gearbox/ transmission case	Gearbox/transmission case overfilled.	Drain to proper level.
	Loose filling/drain plug.	Tighten filling/drain plug.
	Damaged breather plug.	Replace breather plug.
	Damaged seals.	Replace seals.
Tillage depth insufficient	Cultivator is carried by tractor. Tractor has insufficient power.	Lower tractor 3-point arms. Increase PTO speed

	Skids need adjusting. Blades worn or bent. Blades incorrectly installed. Debris entangled in blades and/or rotor.	Adjust skids. Replace blades. Install tines correctly. Clear rotor and/or blades
Soil texture too coarse	Rear board too high. PTO speed too slow. Ground speed too fast.	Lower rear board. Increase PTO speed. Reduce ground speed.
Soil texture too fine	Rear board too low. Ground speed too slow.	Raise rear board Increase ground speed.
Cultivator choking up with soil	Blades worn or bent. Blades incorrectly installed. Rear board too low. Soil too wet.	Replace blades. Install tines correctly. Raise rear board. Wait until soil dries.
Cultivator skiping on ground or leaving crop residue	Blades incorrectly installed (wrong helical arrangement, cutting edge in wrong direction)	Install blades correctly (replace right helical arrangement, position cutting edge in front of rotation direction)
	Debris entangled in blades and/or rotor.	Clear rotor and/or blades.
	Ground speed too fast. Soil too hard.	Reduce ground speed. Reduce ground speed and make tilling in more steps.
Tillage not uniform	Blades worn or damaged. Skids not aligned. Cultivator left side not leveled with right side.	Replace blades. Align skids. Adjust tractor 3-point arms.
Too load required to tractor	Excessive working depth. Excessive PTO speed.	Lower skids. Reduce PTO speed.

# **10. TORQUE VALUES TABLE**

Check frequently Cultivator hardware to make sure that screws and bolts are tightened according to torque values listed in following table:

	8.8 grade		10.9	grade
BOLT SIZE (METRIC)	N m	Ft lb	N m	Ft lb
M6	11	8	15	11
M8	26	19	36	27
M10	52	39	72	53
M12	91	67	125	93
M14	145	105	200	150
M16	225	165	315	230
M18	310	230	405	300
M20	440	325	610	450



#### **RC-120 CULTIVATOR SPARE PARTS LIST**

ITEM.	P/NUMBER	QTY.	PART NAME
1	8032	1	CASTLE NUT 28mm
2	1003	2	BEARING 30207
3	10181	8	HEX BOLT M10 X 1.50 X 30
4	10180	21	HEX BOLT M10 X 1.50 X 25
5	1209	7	M12X1.75 NYLOCK NUT
6	2202	6	HEX BOLT M14 X 1.50 X 37
7	1253	1	1/8 BSP GREASE NIPPLE 7.5MM
8	1298	19	M10X1.5 NYLOCK NUT
9	1299	2	M10X1.5 HEX NUT
10	1301	72	M12X1.75 HEX NUT
11	1302	6	M14X1.5 NYLOCK NUT
12	1303	22	SPRING WASHER 8mm
13	1304	10	SPRING WASHER 10mm
14	1306	88	SPRING WASHER 12mm
15	10194	2	HEX BOLT M12 X 1.75 X 35
16	10192	90	HEX BOLT M12 X 1.75 X 30
17	3027	2	INTERNAL CIRCLIP 90MM
18	8027	1	EXTERNAL CIRCLIP 40MM
19	8036	2	BEARING 6308
20	8040	20	HEX BOLT M8 X 1.25 X 20
21	8078	2	PLAIN WASHER 10mm
22	8120	3	CIRCLIP INTERNAL 62mm
23	8126	1	PLAIN WASHER 12mm
24	8169	2	HEX BOLT M12 X 1.75 X 25
25	8171	2	HEX BOLT M8 X 1.25 X 25
26	8181	18	HEX NUT M8 X 1.25
27	8204	3	LINCH PIN SMALL (CHO)
28	11058	1	EXTERNAL CIRCLIP 30MM
29	1449	1	NYLOCK NUT (M35X1.5MM)
30	14137	1	COTTER PIN (DIA 3.5 X 70)
31	14004	1	J-BOLT M12 x 1.75 x 24 x 87.5 x 25TL
32	14005	1	U-BOLT SPRING (RC-SERIES)
33	14007	1	CHAIN COVER GD COMP (RC-SERIES)
34	14008	1	JACK SHAFT HOUSING U CLAMP (RC-SERIES)
35	14009	1	DEPTH SKID COMP LH (RC-SERIES)
36	14010	1	DEPTH SKID COMP RH (RC-SERIES)
37	14011	2	M/C HITCHING BRACKET COMP (RC-SERIES)
38	14012	1	M/C MOUN STAND COMP (RC-SERIES)
39	14013	1	M/C STAND PIPE COMP (RC-SERIES)
40	14014	2	V-BOLT M14 x 2 x 90 x 83.2 x 26TL
41	14015	2	HITCH PIN BOTTOM CAT-I (DIA-22 X 99)
42	14016	2	BUSH (DIA. 36.5 X 22.5 X 50 L)
43	14018	3	S D PLATE END COVER GASKET (RC-SERIES)

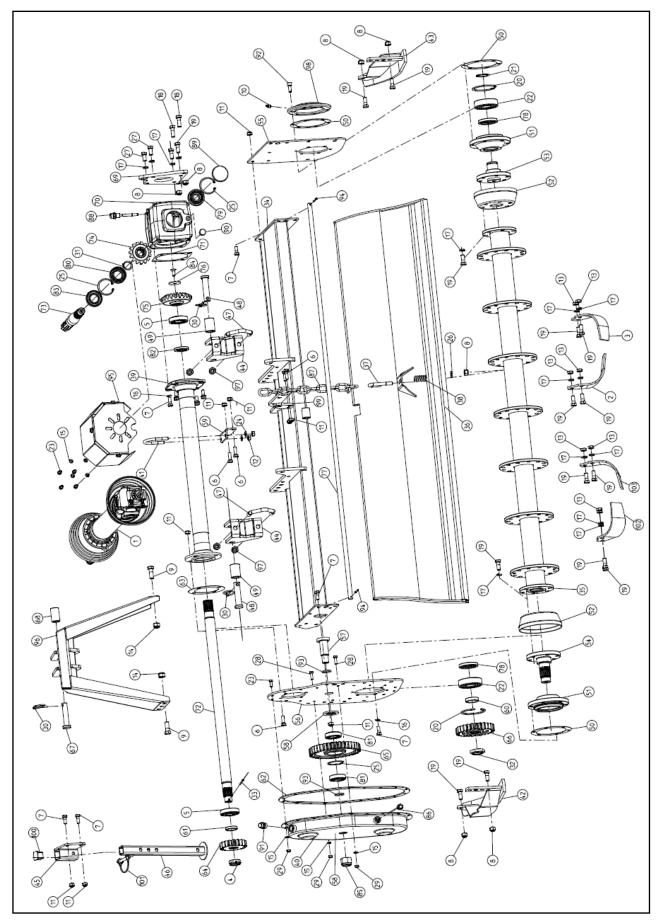
#### **RC-Series Rotary Cultivators**

44	14019	2	ROTOR SHAFT HOUSING (RC-SERIES)
45	14020	2	DUST COVER (RC-SERIES)
46	14021	1	STUB AXLE SHAFT (RC-SERIES)
47	14022	1	R D SHAFT (RC-SERIES)
48	14023	1	S D PLATE (RC-SERIES)
49	14024	1	R D PLATE (RC-SERIES)
50	14025	1	R D SHAFT SMALL (RC-SERIES)
51	14026	1	SPACER DIA-60 x 30 x 5 MM
52	14027	1	JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)
53	14028	1	SPACER DIA-50 x 40 x 12 MM
54	14029	1	SPACER DIA-45 x 35 x 9 MM
55	14030	1	CHAIN COVER GASKET (RC-SERIES)
56	14031	1	JACK SHAFT HOUSING GASKET RD (RC-SERIES)
57	14032	1	GEAR 18 TEETH (RC-SERIES)
58	14033	1	GEAR 38 TEETH (RC-SERIES)
59	14034	1	GEAR 27 TEETH (RC-SERIES)
60	14037	1	HINCH PIN TOP CAT-I (DIA- 19 X 98)
61	14038	1	BUSH (DIA. 19.5 X 31.5 X 52 L)
62	14042	1	GEAR BOX MOUN PLATE (RC-SERIES)
63	14043	1	GEAR BOX 540 RPM (RC-SERIES)
64	14044	1	JACK SHAFT HOUSING GASKET GD (RC-SERIES)
65	14046	1	INPUT SHAFT (RC-SERIES)
66	14047	1	PINION 15 TEETH (RC-SERIES)
67	14048	1	CROWN 22 TEETH (RC-SERIES)
68	14049	1	CROWN WASHER (RC-SERIES)
69	14051	2	OIL SEAL 55 X 72 X 10
70	14053	1	BEARING 30305
71	14054	1	BEARING 6007
72	14055	2	BEARING 30206
73	14056	1	OIL SEAL 35 X 55 X 8
74	14057	1	OIL SEAL 35 X 62 X 10
75	14058	1	CSK BOLT M10 X 1.5 X 25
76	14065	1	NYLOCK NUT M24 x 2
77	14071	1	OIL LEVEL GAUGE 1/4" BSP
78	14073	1	LIFTING CHAIN TB
79	14074	1	DIPSTICK 77mm (M16 x 1.5)
80	14075	1	OIL SEAL 62 X 7
81	10179	1	3/8" BSPT PLUG WITH SQ. HEAD
	10205	1	JACK SHAFT 1.2M (RC-SERIES)
82	14268	1	JACK SHAFT 639 M CM(RC-SERIES)
	10206	1	JACK SHAFT HOUSING COMP 1.2M (RC-SERIES)
83	14269	1	JACK SHAFT HOU. COMP 639M CM (RC-SERIES)
	10207	1	HULL COMP 1.2M (RC-SERIES)
84	14271	1	HULL COMP 1.2M CM (RC-SERIES)
	10208	1	TRAILING BOARD COMP 1.2M (RC-SERIES)
85	14272	1	TRAILING BOARD COMP 1.2M CM (RC-SERIES)
L	I	1	

#### RC-Series Rotary Cultivators

86	10209	1	ROTOR SRT-1.2M C/L-TYPE (RC-SERIES)(60X6)
87	10210	1	TRAILING BOARD ROD 1.2M (RC-SERIES)
88	14126	1	AIR BREATHER 1/2" BSP
89	2833	6	ALLEN BOLT M10 X 1.50 X 25
90	14131	2	O RING 30 x 3.50
91	19018	2	COTTER PIN (DIA 4 X 35)
92	14172	1	PTO SHAFT GUARD ASSEMBLY (SMALL)
93	14239	1	TOP MAST COMP. (RC-SERIES)
94	1574	4	NYLOCK NUT M14 X 2
95	14256	1	SD PLATE END COVER COMP. (RC-SERIES)
96	14258	1	CHAIN LIFTING HOOK (RC-SERIES)
97	14266	1	SQ. PIPE PLASTIC CAP 32MM
98	14267	1	SQ. SNAPPER PIN D10 X L70
99	14124	18	BLADE L-TYPE RH (60X6)(157X117)
100	14125	18	BLADE L-TYPE LH (60X6)(157X117)
101	14040	18	BLADE C-TYPE RH (60X6)(157X117)
102	14041	18	BLADE C-TYPE LH (60X6)(157X117)
103	1509	1	SHEAR BOLT PTO 6SP COM(COVER)14.5"(35MM)

### **RC-150 CULTIVATOR SPARE PARTS TABLE**



### **RC-150 CULTIVATOR SPARE PARTS LIST**

ITEM.	P/NUMBER	QTY.	PART NAME
1	1509	1	SHEAR BOLT PTO 6SP COM(COVER)14.5"(35MM)
2	14124	21	BLADE L-TYPE RH (60X6)(157X117)
3	14125	21	BLADE L-TYPE LH (60X6)(157X117)
4	8032	1	CASTLE NUT 28mm
5	1003	2	BEARING 30207
6	10181	8	HEX BOLT M10 X 1.50 X 30
7	10180	21	HEX BOLT M10 X 1.50 X 25
8	1209	7	M12X1.75 NYLOCK NUT
9	2202	6	HEX BOLT M14 X 1.50 X 37
10	1253	1	1/8 BSP GREASE NIPPLE 7.5MM
11	1298	19	M10X1.5 NYLOCK NUT
12	1299	2	M10X1.5 HEX NUT
13	1301	84	M12X1.75 HEX NUT
14	1302	6	M14X1.5 NYLOCK NUT
15	1303	22	SPRING WASHER 8mm
16	1304	10	SPRING WASHER 10mm
17	1306	100	SPRING WASHER 12mm
18	10194	2	HEX BOLT M12 X 1.75 X 35
19	10192	102	HEX BOLT M12 X 1.75 X 30
20	3027	2	INTERNAL CIRCLIP 90MM
21	8027	1	EXTERNAL CIRCLIP 40MM
22	8036	2	BEARING 6308
23	8040	20	HEX BOLT M8 X 1.25 X 20
24	8078	2	PLAIN WASHER 10mm
25	8120	3	CIRCLIP INTERNAL 62mm
26	8126	1	PLAIN WASHER 12mm
27	8169	2	HEX BOLT M12 X 1.75 X 25
28	8171	2	HEX BOLT M8 X 1.25 X 25
29	8181	18	HEX NUT M8 X 1.25
30	8204	3	LINCH PIN SMALL (CHO)
31	11058	1	EXTERNAL CIRCLIP 30MM
32	1449	1	NYLOCK NUT (M35X1.5MM)
33	14137	1	COTTER PIN (DIA 3.5 X 70)
34	14001	1	HULL COMP 1.5M (RC-SERIES)
35	14002	1	ROTOR SRT-1.5M C/L-TYPE (RC-SERIES)(60X6)
36	14003	1	T B COMP 1.5M (RC-SERIES)
37	14004	1	J-BOLT M12 x 1.75 x 24 x 87.5 x 25TL
38	14005	1	U-BOLT SPRING (RC-SERIES)
39	14006	1	JACK SHAFT HOUSING COMP 1.5M (RC-SERIES)
40	14007	1	CHAIN COVER GD COMP (RC-SERIES)
41	14008	1	JACK SHAFT HOUSING U CLAMP (RC-SERIES)
42	14009	1	DEPTH SKID COMP LH (RC-SERIES)
43	14010	1	DEPTH SKID COMP RH (RC-SERIES)

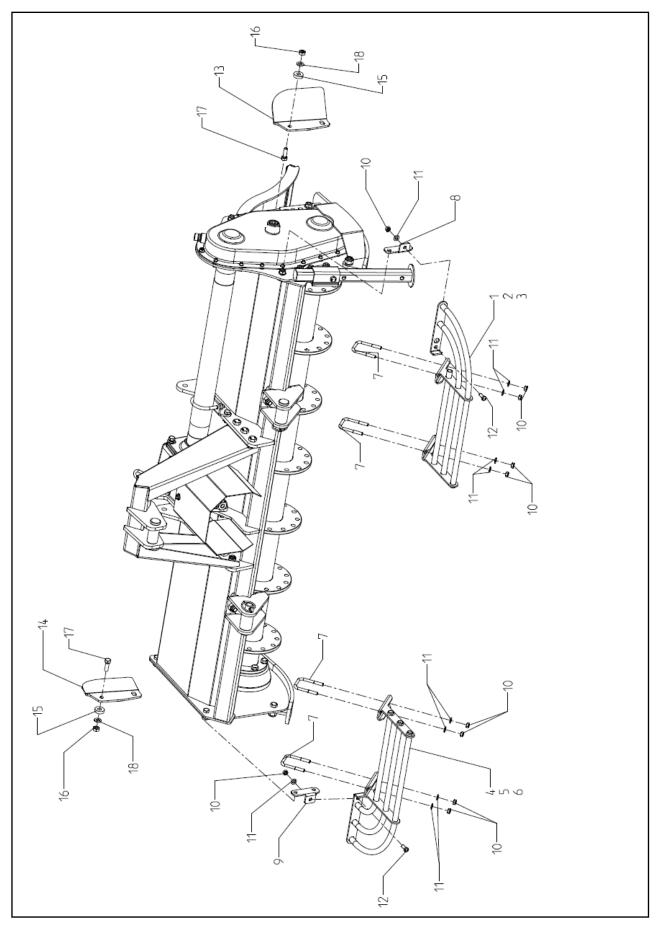
#### RC-Series Rotary Cultivators

45         14012         1         M/C MOUN STAND COMP (RC-SERIES)           46         14013         1         M/C STAND PIPE COMP (RC-SERIES)           47         14014         2         V-BOLT M14 x 2 so x 83.2 x 26TL           48         14015         2         HITCH PIN BOTTOM CAT-I (DIA-22 X 99)           49         14016         2         BUSH (DIA. 36.5 X 22. S X 50 L)           50         14018         3         S D PLATE END COVER GASKET (RC-SERIES)           51         14020         2         DUST COVER (RC-SERIES)           52         14020         2         DUST COVER (RC-SERIES)           53         14021         S D PLATE (RC-SERIES)         S           54         14023         1         S D PLATE (RC-SERIES)           55         14023         1         R D SHAFT MOUSING (RC-SERIES)           56         14024         1         R D PLATE (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14027         1         JACK SHAFT MOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-60 x 30 x 5 MM           61         14020         1         SPACER DIA-60 x 30 x 5 MM	44	14011	2	M/C HITCHING BRACKET COMP (RC-SERIES)
47         14014         2         V-BOLT M14 x 2 x 90 x 83.2 x 26TL           48         14015         2         HITCH PIN BOTTOM CAT-1 (DIA-22 X 99)           49         14016         2         BUSH (DIA. 36.5 X 22.5 X 50 L)           50         14018         3         S D PLATE END COVER GASKET (RC-SERIES)           51         14019         2         ROTOR SHAFT HOUSING (RC-SERIES)           53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14024         1         R D SHAFT (RC-SERIES)           55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D SHAFT SMALL (RC-SERIES)           57         14025         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-45 x 35 x 9 MM           61         14024         1         GEAR 18 TEET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           64         14032         1         GEAR 18 TEET H (RC-SERIES)           65         14033         1         GEAR 18 TEET H (RC-SERIES) <td>45</td> <td>14012</td> <td>1</td> <td>M/C MOUN STAND COMP (RC-SERIES)</td>	45	14012	1	M/C MOUN STAND COMP (RC-SERIES)
48         14015         2         HITCH PIN BOTTOM CAT-I (DIA-22 X 99)           49         14016         2         BUSH (DIA. 36.5 X 22.5 X 50 L)           50         14018         3         S D PLATE END COVER GASKET (RC-SERIES)           51         14019         2         ROTOR SHART HOUSING (RC-SERIES)           52         14020         2         DUST COVER (RC-SERIES)           54         14021         TUB AXLE SHART (RC-SERIES)           55         14024         R D SHAFT (RC-SERIES)           56         14024         R D SHAFT (RC-SERIES)           57         14025         R D SHAFT HOUSING (MC-SERIES)           58         14024         R D SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         SPACER DIA-60 x 30 x 5 MM           59         14027         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           61         14029         SPACER DIA-50 x 40 x 12 MM           61         14029         SPACER DIA-50 x 30 x 5 MM           62         14031         JACK SHAFT HOUSING GASKET (RC-SERIES)           63         14031         GEAR 18 TEETH (RC-SERIES)           64         14032         GEAR 31 TEETH (RC-SERIES)           65         14033         GEAR 18 TEETH (RC-SERIES) </td <td>46</td> <td>14013</td> <td>1</td> <td>M/C STAND PIPE COMP (RC-SERIES)</td>	46	14013	1	M/C STAND PIPE COMP (RC-SERIES)
49         14016         2         BUSH (DIA. 36.5 X 22.5 X 50 L)           50         14018         3         S D PLATE END COVER GASKET (RC-SERIES)           51         14019         2         ROTOR SHAFT HOUSING (RC-SERIES)           52         14020         2         DUST COVER (RC-SERIES)           53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14022         1         R D SHAFT (RC-SERIES)           55         14024         1         R D PLATE (RC-SERIES)           56         14025         1         R D SHAFT SMALL (RC-SERIES)           57         14026         1         SPACER DIA-50 x30 x5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x30 x5 MM           61         14029         1         SPACER DIA-50 x30 x5 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 18 TEETH (RC-SERIES)	47	14014	2	V-BOLT M14 x 2 x 90 x 83.2 x 26TL
50         14018         3         S D PLATE END COVER GASKET (RC-SERIES)           51         14019         2         ROTOR SHAFT HOUSING (RC-SERIES)           52         14020         2         DUST COVER (RC-SERIES)           53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14022         1         R D SHAFT (RC-SERIES)           55         14024         1         R D PLATE (RC-SERIES)           56         14024         1         R D SHAFT MOUSING MOUN PLATE (RC-SERIES)           57         14025         1         R D SHAFT HOUSING MOUN PLATE (RC-SERIES)           58         14024         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           62         14031         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET (RC-SERIES)           64         14032         1         GEAR 18 TECTH (RC-SERIES)           65         14033         1         GEAR 20 TECTH (	48	14015	2	HITCH PIN BOTTOM CAT-I (DIA-22 X 99)
51         14019         2         ROTOR SHAFT HOUSING (RC-SERIES)           52         14020         2         DUST COVER (RC-SERIES)           53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14022         1         R D SHAFT (RC-SERIES)           55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D SHAFT (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 30 x 5 MM           61         14029         1         SPACER DIA-50 x 30 x 5 MM           62         14030         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 80 X 540 RPM (RC-SERIES)	49	14016	2	BUSH (DIA. 36.5 X 22.5 X 50 L)
52         14020         2         DUST COVER (RC-SERIES)           53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14022         1         R D SHAFT (RC-SERIES)           55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D SHAFT (RC-SERIES)           57         14025         1         R D SHAFT (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           61         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 18 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           70         14043	50	14018	3	S D PLATE END COVER GASKET (RC-SERIES)
53         14021         1         STUB AXLE SHAFT (RC-SERIES)           54         14022         1         R D SHAFT (RC-SERIES)           55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D PLATE (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-50 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 38 TEETH (RC-SERIES)           67         14033         1         GEAR 38 TEETH (RC-SERIES)           67         14033         1         GEAR 38 TEETH (RC-SERIES)           71	51	14019	2	ROTOR SHAFT HOUSING (RC-SERIES)
54         14022         1         R D SHAFT (RC-SERIES)           55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D PLATE (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-60 x 30 x 5 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           62         14030         1         CHAIN COVER GASKET R0 (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET R0 (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR BOX MOUN PLATE (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)	52	14020	2	DUST COVER (RC-SERIES)
55         14023         1         S D PLATE (RC-SERIES)           56         14024         1         R D PLATE (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MIM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-60 x 40 x 12 MM           61         14029         1         SPACER DIA-45 x 35 x 9 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET R0 (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 38 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 5 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX MOUN PLATE (RC-SERIES)	53	14021	1	STUB AXLE SHAFT (RC-SERIES)
56         14024         1         R D PLATE (RC-SERIES)           57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-60 x 30 x 5 MM           61         14029         1         SPACER DIA-40 x 40 x 12 MM           61         14029         1         SPACER DIA-45 x 35 x 9 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET R0 (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52.1)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX MOUN PLATE (RC-SERIES)	54	14022	1	R D SHAFT (RC-SERIES)
57         14025         1         R D SHAFT SMALL (RC-SERIES)           58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 27 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA-19 X 98)           68         14038         1         BUSH (DIA, 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1-5W (RC-SERIES)           72         14045         1         INPUT SHAFT (RC-SERIES)	55	14023	1	S D PLATE (RC-SERIES)
58         14026         1         SPACER DIA-60 x 30 x 5 MM           59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 27 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1.5W (RC-SERIES)           72         14045         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES) <td>56</td> <td>14024</td> <td>1</td> <td>R D PLATE (RC-SERIES)</td>	56	14024	1	R D PLATE (RC-SERIES)
59         14027         1         JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)           60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-45 x 35 x 9 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 28 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52.1)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX S40 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1.5M (RC-SERIES)           72         14045         1         INPUT SHAFT 1.5M (RC-SERIES)           73         14046         INPUT SHAFT 1.5M (RC-SERIES)	57	14025	1	R D SHAFT SMALL (RC-SERIES)
60         14028         1         SPACER DIA-50 x 40 x 12 MM           61         14029         1         SPACER DIA-55 x 35 x 9 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 38 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA-19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52.1)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX S40 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1.5M (RC-SERIES)           72         14045         1         INPUT SHAFT (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN WASHER (RC-SERIES)           <	58	14026	1	SPACER DIA-60 x 30 x 5 MM
61         14029         1         SPACER DIA-45 x 35 x 9 MM           62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX S40 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         INPUT SHAFT (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN MASHER (RC-SERIES)	59	14027	1	JACK SHAFT HOUSING MOUN PLATE (RC-SERIES)
62         14030         1         CHAIN COVER GASKET (RC-SERIES)           63         14031         1         JACK SHAFT HOUSING GASKET RC (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1.5M (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN WASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)	60	14028	1	SPACER DIA-50 x 40 x 12 MM
63         14031         1         JACK SHAFT HOUSING GASKET RD (RC-SERIES)           64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN VASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)	61	14029	1	SPACER DIA-45 x 35 x 9 MM
64         14032         1         GEAR 18 TEETH (RC-SERIES)           65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT 1.5M (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN WASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80	62	14030	1	CHAIN COVER GASKET (RC-SERIES)
65         14033         1         GEAR 38 TEETH (RC-SERIES)           66         14034         1         GEAR 27 TEETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX S40 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           71         14044         1         JACK SHAFT 1.5M (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN WASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30205           80 <td>63</td> <td>14031</td> <td>1</td> <td>JACK SHAFT HOUSING GASKET RD (RC-SERIES)</td>	63	14031	1	JACK SHAFT HOUSING GASKET RD (RC-SERIES)
66         14034         1         GEAR 27 TETH (RC-SERIES)           67         14037         1         HINCH PIN TOP CAT-I (DIA- 19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX S40 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056	64	14032	1	GEAR 18 TEETH (RC-SERIES)
67         14037         1         HINCH PIN TOP CAT-I (DIA-19 X 98)           68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057	65	14033	1	GEAR 38 TEETH (RC-SERIES)
68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065	66	14034	1	GEAR 27 TEETH (RC-SERIES)
68         14038         1         BUSH (DIA. 19.5 X 31.5 X 52 L)           69         14042         1         GEAR BOX MOUN PLATE (RC-SERIES)           70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065	67	14037	1	HINCH PIN TOP CAT-I (DIA- 19 X 98)
70         14043         1         GEAR BOX 540 RPM (RC-SERIES)           71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1	68	14038	1	BUSH (DIA. 19.5 X 31.5 X 52 L)
71         14044         1         JACK SHAFT HOUSING GASKET GD (RC-SERIES)           72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CH	69	14042	1	GEAR BOX MOUN PLATE (RC-SERIES)
72         14045         1         JACK SHAFT 1.5M (RC-SERIES)           73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 30206           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB	70	14043	1	GEAR BOX 540 RPM (RC-SERIES)
73         14046         1         INPUT SHAFT (RC-SERIES)           74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 30206           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	71	14044	1	JACK SHAFT HOUSING GASKET GD (RC-SERIES)
74         14047         1         PINION 15 TEETH (RC-SERIES)           75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	72	14045	1	JACK SHAFT 1.5M (RC-SERIES)
75         14048         1         CROWN 22 TEETH (RC-SERIES)           76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	73	14046	1	INPUT SHAFT (RC-SERIES)
76         14049         1         CROWN WASHER (RC-SERIES)           77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 52 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	74	14047	1	PINION 15 TEETH (RC-SERIES)
77         14050         1         TRAILING BOARD ROD 1.5M (RC-SERIES)           78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	75	14048	1	CROWN 22 TEETH (RC-SERIES)
78         14051         2         OIL SEAL 55 X 72 X 10           79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	76	14049	1	CROWN WASHER (RC-SERIES)
79         14053         1         BEARING 30305           80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	77	14050	1	TRAILING BOARD ROD 1.5M (RC-SERIES)
80         14054         1         BEARING 6007           81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	78	14051	2	OIL SEAL 55 X 72 X 10
81         14055         2         BEARING 30206           82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	79	14053	1	BEARING 30305
82         14056         1         OIL SEAL 35 X 55 X 8           83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	80	14054	1	BEARING 6007
83         14057         1         OIL SEAL 35 X 62 X 10           84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	81	14055	2	BEARING 30206
84         14058         1         CSK BOLT M10 X 1.5 X 25           85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	82	14056	1	OIL SEAL 35 X 55 X 8
85         14065         1         NYLOCK NUT M24 x 2           86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	83	14057	1	OIL SEAL 35 X 62 X 10
86         14071         1         OIL LEVEL GAUGE 1/4" BSP           87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	84	14058	1	CSK BOLT M10 X 1.5 X 25
87         14073         1         LIFTING CHAIN TB           88         14074         1         DIPSTICK 77mm (M16 x 1.5)	85	14065	1	NYLOCK NUT M24 x 2
88 14074 1 DIPSTICK 77mm (M16 x 1.5)	86	14071	1	OIL LEVEL GAUGE 1/4" BSP
	87	14073	1	LIFTING CHAIN TB
89 14075 1 OIL SEAL 62 X 7	88	14074	1	DIPSTICK 77mm (M16 x 1.5)
	89	14075	1	OIL SEAL 62 X 7

#### **RC-Series Rotary Cultivators**

90	10179	1	3/8" BSPT PLUG WITH SQ. HEAD
91	14126	1	AIR BREATHER 1/2" BSP
92	2833	6	ALLEN BOLT M10 X 1.50 X 25
93	14131	2	O RING 30 x 3.50
94	19018	2	COTTER PIN (DIA 4 X 35)
95	14172	1	PTO SHAFT GUARD ASSEMBLY (SMALL)
96	14239	1	TOP MAST COMP. (RC-SERIES)
97	1574	4	NYLOCK NUT M14 X 2
98	14256	1	SD PLATE END COVER COMP. (RC-SERIES)
99	14258	1	CHAIN LIFTING HOOK (RC-SERIES)
100	14266	1	SQ. PIPE PLASTIC CAP 32MM
101	14267	1	SQ. SNAPPER PIN D10 X L70
102	14040	21	BLADE C-TYPE RH (60X6)(157X117)
103	14041	21	BLADE C-TYPE LH (60X6)(157X117)

### **RC-SERIES CULTIVATOR SPARE PARTS TABLE**



### **RC-SERIES CULTIVATOR CE KIT SPARE PARTS LIST**

#### **RC-120** Part List

ITEM	P/NUMBER	QTY	DESCRIPTION		
2	14202	1	CE BARRIER COMP. UL-1.2 RH (RC-SERIES)		
5	14201	1	CE BARRIER COMP. UL-1.2 LH (RC-SERIES)		
7	14190	3	U-BOLT M8 X 1.25 X 77 X 60 X 28TL		
8	14181	1	BARRIER ASM SUPPORT CLAMP RH (RC-SERIES)		
9	14180	1	BARRIER ASM SUPPORT CLAMP LH (RC-SERIES)		
10	8181	8	HEX NUT M8 X 1.25		
11	8064	8	PLAIN WASHER 8mm		
12	8040	2	HEX BOLT M8 X 1.25 X 20		
13	14184	1	TB GAURD PLATE RH (RC-SERIES)		
14	14183	1	TB GAURD PLATE LH (RC-SERIES)		
15	14194	2	SPACER DIA-28 x 11 x 8 MM		
16	1299	2	HEX NUT M10 X 1.50		
17	6068	2	HEX BOLT M10 X 1.50 X 35		
18	8078	2	PLAIN WASHER 10mm		
-	14203	1	CE KIT SRT-1.2 (RC-SERIES)		

### **RC-150 Part List**

ITEM	P/NUMBER	QTY	DESCRIPTION
3	14209	1	CE BARRIER COMP. UL-1.5 RH (RC-SERIES)
6	14208	1	CE BARRIER COMP. UL-1.5 LH (RC-SERIES)
7	14190	4	U-BOLT M8 X 1.25 X 77 X 60 X 28TL
8	14181	1	BARRIER ASM SUPPORT CLAMP RH (RC-SERIES)
9	14180	1	BARRIER ASM SUPPORT CLAMP LH (RC-SERIES)
10	8181	10	HEX NUT M8 X 1.25
11	8064	10	PLAIN WASHER 8mm
12	8040	2	HEX BOLT M8 X 1.25 X 20
13	14184	1	TB GAURD PLATE RH (RC-SERIES)
14	14183	1	TB GAURD PLATE LH (RC-SERIES)
15	14194	2	SPACER DIA-28 x 11 x 8 MM
16	1299	2	HEX NUT M10 X 1.50
17	6068	2	HEX BOLT M10 X 1.50 X 35
18	8078	2	PLAIN WASHER 10mm
-	14210	1	CE KIT SRT-1.5 (RC-SERIES)



**Tirth Agro Technology Pvt. Ltd.** (An ISO 9001:2008 Certified Company)

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