

CONGRATULATIONS!

You have invested in one of the best implements of its type in the market today.

The care you give your CROPKING® implement will greatly determine your satisfaction with its performance and its service life. A careful study of this manual will give you a thorough understanding of your new implement before operating.

If your manual is lost or destroyed CROPKING® will be glad to provide you with a new copy. Order at PARTAP IRON WORKS® (CROPKING®), KARNAL-132001, INDIA. Most of our manuals can also be downloaded from our website at www.partapironworks.com or you can also write us on our email id: partapironworks@gmail.com ; partapironwork@gmail.com.

As an authorized CROPKING® dealer, we stock genuine CROPKING® spares and parts which are manufactured with the same precision and skill as our original equipment. Our trained service technician are well informed on methods required to service CROPKING® equipment and are always ready to help the customers.

Should you require additional information or assistance, please contact us.

YOUR AUTHORISED

CROPKING® DEALER

DISCLAIMER:

BECAUSE CROPKING® MAINTAINS AN ONGOING PROGRAMME OF PRODUCT IMPROVEMENT. WE RESERVE THE RIGHT TO MAKE IMPROVEMENTS IN DESIGN OR CHANGE IN SPECIFICATION WITHOUT INCURRING ANY OBLIGATION TO INSTALL THEM ON UNITS PREVIOUSLY SOLD. BECAUSE OF THE POSSIBILITY THAT SOME PHOTOGRAPHS IN THIS MANUAL WERE TAKEN OF PROTOTYPE MODELS, PRODUCTION MODELS MAY VARY IN SOME DETAIL. IN ADDITION, SOME PHOTOGRAPHS MAY SHOW SHIELD REMOVED FOR THE PURPOSE OF CLARITY. NEVER OPERATE THIS IMPLEMENT WITHOUT ALL SHIELDS IN PLACE.

TO THE PURCHASER

This manual contains valuable information about your new **CROPKING® MEDIUM DUTY SPRING LOADED CULTIVATOR (CKSTC-US)**. It has been carefully prepared to give you helpful suggestions for operating, adjusting and servicing this product.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy cultivator but only by proper care and operation can you expect to receive the service and long life designed and build into it.

Sometime in the future your cultivator may need new parts to replace those that are worn out or broken. If so, visit your dealer.

CUSTOMER INFORMATION

NAME: ..

PURCHASED FROM: .

DATE OF PURCHASED:

MODEL No.:

SERIAL No.:

PURCHASER OR OPERATOR RESPONSIBILITY

- ✓ Read and understand the information contained in this manual.
- ✓ Operate, assemble and maintain the equipment in accordance with all instructions and safety procedures in this manual.
- ✓ Inspect the equipment and replace or repair any parts that are damaged or worn out which under continued operation would cause damage, wear to other parts, or cause a safety hazard.
- ✓ Return the equipment or parts to the authorized **CROPKING®** dealer, from where it was purchased, for service or replacement of defective parts that are covered under warranty.(Our Factory may inspect equipments or parts before warranty claims are honored).
- ✓ All costs incurred by the dealer for travelling to or transporting the equipment for warranty inspection and claims will be borne by the customer.

INDEX

1. TECHNICAL DATA

- 1.1 Introduction
- 1.2 Warranty
- 1.3 When the warranty becomes void
- 1.4 Warning

2. USAGE INSTRUCTIONS

- 2.1 Before Use & Adjustments
- 2.2 Attaching the cultivator to the tractor
- 2.3 Warning for the Driver
- 2.4 Safety

3. MAINTENANCE

- 3.1 Maintenance Instructions
- 3.2 Storage of machine after work
- 3.3 Instruction for the Driver

4. OPERATIONAL GUIDELINES FOR CULTIVATOR

5. TROUBLESHOOTING CHART

1. TECHNICAL DATA

1.1 INTRODUCTION

This handbook contains the use and maintenance instructions with a list of the spare parts of the cultivator.

This cultivator is equipped with heavy duty MS angle frame specifically designed for efficient tilling of fields at various depths.

Regular and satisfactory operation together with economic and long lasting use of the implement depends on the compliance with instructions given in this handbook.

Compliance with the instructions in this handbook is also important since manufacturer declines all and every responsibility for damage to persons or property caused by negligence and failure to comply with these instructions.

Instructions:

- Please read the Operating Manual carefully before using this Cultivator.
- Maintain the Cultivator as per the instructions mentioned in the manual.

1.2 WARRANTY

When the machine is delivered check that it has not been damaged during transit and that the accessories are in a perfect condition and complete.

Any claims following the receipt of damaged goods shall be presented in writing within 7 days from the receipt of the goods.

The purchaser may only make claims under warranty when he has complied with the warranty conditions in the supply contract.

1.3 WHEN THE WARRANTY BECOMES VOID

Besides the cases specified in the supply agreement, the warranty in any other case shall become void.

- When the implement has been used beyond the specific power limit like (tractor horse power).
- When repairs made by the customer without authorization from the manufacturer or owing to installation of spurious spare parts, the machine is subjected to variations and the damage can be ascribed to these variations.
- When the user has failed to comply with the instructions in this handbook.
- If the implement is used in very hard/stony soil no warranty will be given.

- If the implement has not been lifted while tractor is taking a turn.
- If the implement has not been serviced properly on time.

1.4 WARNING

Thoroughly read the instruction manual before proceeding with the various operations. Maintain the cultivator as per the instructions of this handbook to be entitled for warranty.

2. USAGE INSTRUCTIONS

2.1 BEFORE USE & ADJUSTMENTS

1. Before mounting the cultivator, make sure that all nuts & bolts are properly secured.
2. Also determine soil and trash conditions of the field and make the preliminary adjustments. For Example:-
 - a. Cultivator Leveling This is done using top link. It ensures smooth penetration and removes side draft.
 - b. Depth control- The depth at which the implements is required to work is controlled hydraulically by raising or lowering the control lever on the tractor.

2.2 ATTACHING THE CULTIVATOR TO THE TRACTOR

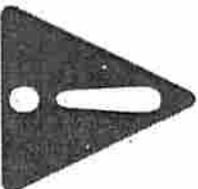
1. Place the cultivator duly leveled on a flat piece of land.
2. Reverse the tractor to the cultivator (Do not drag the cultivator upto the tractor).
3. Attach the left arm of the tractor to the cultivator first.
4. Attach the central arm of the tractor to the cultivator. To attach, turn the screws on both sides to an equal length. If the arm is too short or too long, turn the screw to adjust both at the same time until aligned with the hole on the central arm.
5. Attach the lower right arm, turn the screw until the mounting pin is at the same level as the hole on the tractor arm. If the gap between the hole & mounting pin is too close or too distant, turn the central arm in or pull it away to an appropriate distance. You may have to adjust both height & distance at the same time. When the hole at tractor arm and mounting pin are even, insert the pin in the hole and lock it with the lynch pin.
6. After attaching the cultivator, lift it and adjust the control arm parallel to the ground. When you lock from both rear and sideways, all cultivator shovels should all be touching the ground uniformly.

2.3 WARNING FOR THE DRIVER

1. Before operating check all nuts & bolts of the cultivator.
2. Be vigilant about the tree roots and stones. Don't use cultivator on stony soil.
3. Don't allow anyone to come across the cultivator.
4. Lift the cultivator on every turn.
5. Lift the cultivator before approaching the road.

2.4 SAFETY

Understanding the Machine Safety Labels:



Safety Alert Symbol

The machine safety labels shown in this section are placed important areas on your machine to draw attention to potential safety hazards

On your machine the words DANGER, WARNING and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operators manual also explains any potential safety hazards whenever necessary.



In order to protect yourself always wear adequate clothes and shoes during the operations.



Never allow riders on the tractor or implement unless an additional seat is available.



Be careful when moving around steep gradient to avoid sharp turn.

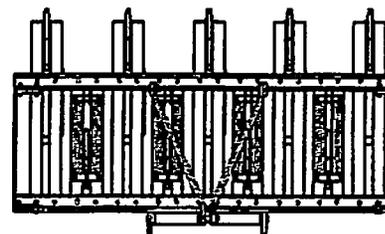


Never transport the implement on rough roads during the night. When operating, avoid sharp turns that may cause tractor colliding with the implement.

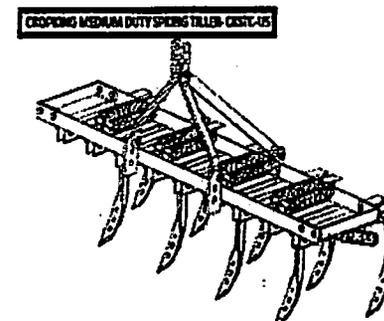
5. TROUBLESHOOTING CHART

S.NO	POSSIBLE CAUSES	POSSIBLE REMEDIES
A. Side Draft		
1.	Shovels not running in Level	Adjust using Leveling Lever
2.	Tyne/ shank not parallel	Set the shank assembly and replace shovels if required
3.	Tyne being worn out	Replace shovels immediately for longer life of tyne
B. Excessive Field Slippage		
1.	Tractor Overloaded	Reduce Angle, Reduce Depth
2.	Not Enough Tractor Ballast	Add Wheel Weight or Liquid
C. Not equal depth		
1.	Tyne not parallel	Set the shank assembly and replace shovels if necessary
D. Poor Penetration		
1.	Hard Ground	Tighten top link and increase angle of penetration
F. Tyne clogging		
1.	Field too Wet	Tillage at shallow depth for first path to speed up drying process.
2.	Spring clogging	Clean the coils of the spring, replace if it loses its tensile strength
3.	Shovels worn out or not set properly.	Replace worn ones.
4.	Shovels going too deep in damp soil	Reduce penetration.

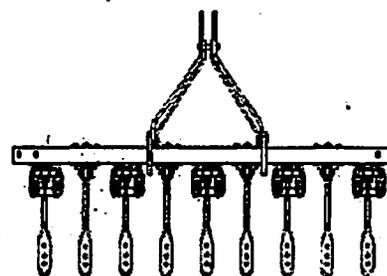
EXPLODED VIEW



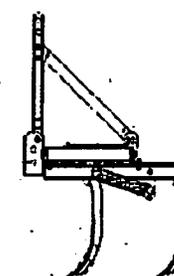
TOP VIEW



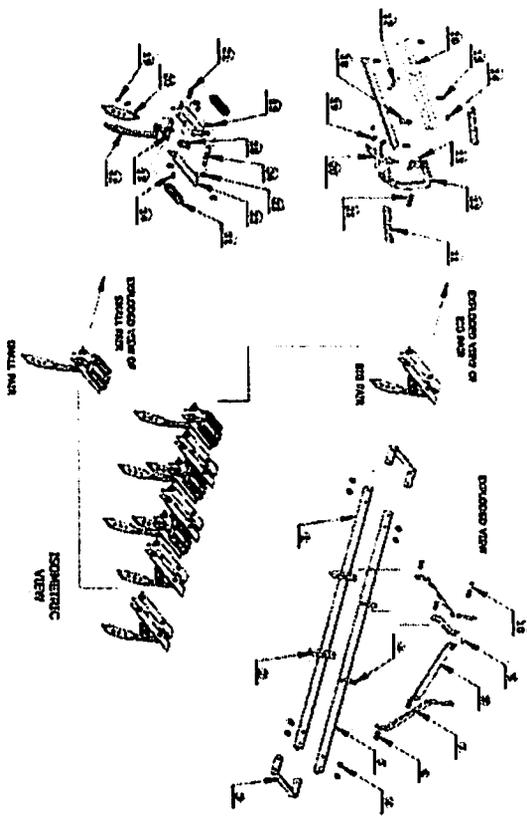
ISOMETRIC VIEW



FRONT VIEW

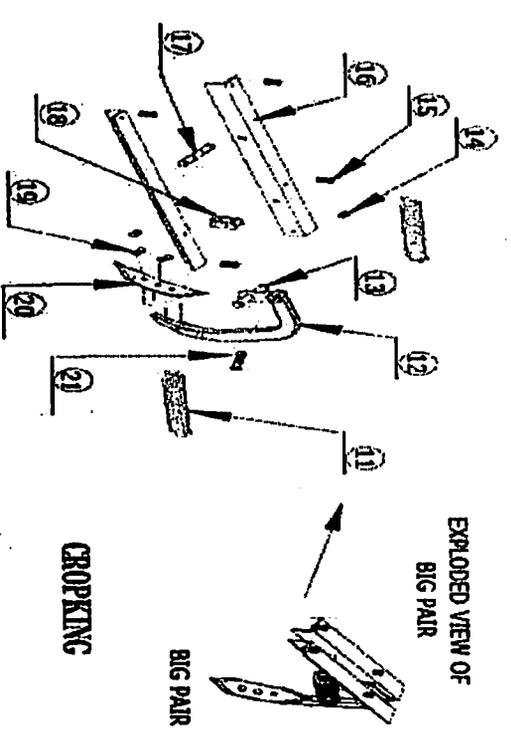


SIDE VIEW



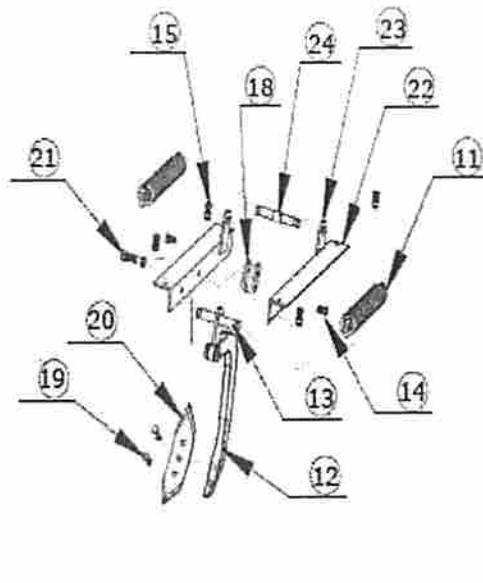
CROPKING MEDIUM DUTY SPRING CULTIVATOR (CKSTC-US)

S.No	Item name	5 TONE	7 TONE	9 TONE	11 TONE	13 TONE
1	Main Chassis frame with side supports	CKSTC-US01	CKSTC-US01	CKSTC-US01	CKSTC-US01	CKSTC-US01
2	Small Pair Assembly			CKSTC-US02		
3	Big Pair Assembly			CKSTC-US03		
4	Cultivator fit	CKSTC-US04A		CKSTC-US04B		CKSTC-US04C
5	Cultivator Pin			CKSTC-US05		
6	Spring			CKSTC-US06		
7	Shovel			CKSTC-US07		
8	Chassis Fitting Bolt			CKSTC-US08		
						M12x35



CROPKING SPRING CULTIVATOR REAR ASSEMBLY (BIG PAIR)

S.NO	ITEM NAME	PART CODE	REFERENCE NUMBER
1	Angle Pair (set of 2)	CKSTC-US08A	16
2	Tyre with pin weld	CKSTC-US08B	12,13
3	Tyre U with fitting bolt	CKSTC-US08C	18
4	Spring	CKSTC-US06	11
5	Shovel	CKSTC-US07	20
6	Shovel bolt	CKSTC-US07A	19
7	Tyre fitting bolt M16x65	CKSTC-US09	21



EXPLODED VIEW OF
SMALL PAIR



SMALL PAIR

CROPKING® SPRING CULTIVATOR FRONT ASSEMBLY (SMALL PAIR)

S.NO	ITEM NAME	PART CODE	REFERENCE NUMBER
1	Angle Pair (set of 2)	CKSTC-US02A	22,23
2	Tyne with pin weld	CKSTC-US02B	12,13
3	Tyne U with fitting bolt	CKSTC-US03C	18
4	Spring	CKSTC-US06	11
5	Shovel	CKSTC-US07	20
6	Shovel bolt	CKSTC-US07A	19
7	Tyne fitting bolt M16x85	CKSTC-US09	21

CROPKING

DELIVERY CHECKLIST

Dealer Pre-Delivery (Please Tick)	Please Complete All Dealer Information Below
Dealer Pre-Delivery Checklist <ol style="list-style-type: none"> The customer or person responsible has been given the operators manual. The customer undertakes to read the complete operators manual and understands all aspects of manual before operation of the machine. All safety, operational and maintenance information have been explained and demonstrated. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operators manual. 	Dealer Information Dealer Name Address.... .. State Post Code .. Phone Fax ... Email Serving Person. I confirm that the Pre-Delivery service was performed on this machine. Signature... .. Date... .. Comment
Customer Delivery (Please Tick)	Please Complete All Customer Information Below
Customer Delivery Checklist <ol style="list-style-type: none"> The customer or person responsible has been given the operators manual. The customer undertakes to read the complete operators manual and understands all aspects of manual before operation of the machine. All safety, operational and maintenance information have been explained and demonstrated. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operators manual. 	Dealer Information Customer Name Address.... .. State Post Code .. Phone Fax ... Email Serving Person. I confirm that the Pre-Delivery service was performed on this machine. Signature... .. Date... .. Comment.....