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FIELDKING

Dabangg Super Seeder



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➤ Operator Manual ➤ Service Manual ➤ Part Catalogue

CONGRATULATIONS!

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

The care you give your “FIELDKING” 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, “FIELDKING” will be glad to provide you a new copy. Visit to nearest dealership & get a copy. Most of our manuals can also be downloaded from our website at www.fieldking.com.

As an authorized “FIELDKING” dealer, we stock genuine “FIELDKING” parts which are manufactured with the same precision and skill as our original equipment. Our trained service persons are well informed on methods required to service “FIELDKING” equipments and are ready to help you.

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

YOUR AUTHORIZED

FIELDKING DEALER

TERMS & CONDITIONS:

BECAUSE “FIELDKING” 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 SHIELDS 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 “FIELDKING” Super Seeder. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing and ordering spare parts.

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

Sometime in the future your Super Seeder may need new parts to replace which are worn out or broken. If so, go to your dealer and provide him equipment's detail like model and part number.

CUSTOMER INFORMATION

Name _____

Purchased From _____

Date of Purchase _____

Model No. _____

Serial No. _____

PURCHASER / OPERATOR'S RESPONSIBILITY

1. Read and understand the information contained in this manual.
2. Operate, lubricate, assemble and maintain the equipment in accordance with all instructions and safety procedures in this manual.
3. 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.
4. Return the equipment or parts to the authorized “FIELDKING” dealer, from where it was purchased, for service or replacement of defective parts that are covered by warranty. (The “FIELDKING” Factory may inspect equipment or parts before warranty claims are honored.)
5. All costs incurred by the dealer for traveling to or transporting the equipment for warranty inspection and claims will be borne by the customer.

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Parts Catalogue

NOTE:

FIELDKING reserves the right to modify machine design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance quality may depend on soil quality.

1. TECHNICAL DATA

1.1 INTRODUCTION

Super Seeder

Being a trusted name of this domain; we are manufacturing, supplying, importing and exporting optimum performing Super Seeder. Offered drills are commonly used for sowing different types of crops such as maize, wheat, pea and mustard among others. Our offered Super Seeder is widely acknowledged among the clients for its remarkable features like low maintenance, simple to handle, easy operation and longer functional life.

Features:

- 1. Fieldking Super Seeder is a combination of Rotary Tiller & Seed Planter with press wheel. It is extensively used for planting a wide variety of seeds like wheat, soybean & grass. It is useful for removing stubble & roots of Paddy, Sugarcane, Cotton, Banana, Maize etc. of various other crops.
- 2. Super Seeder is a single pass solution to fulfill current farming needs to stop crop residue burning.
- 3. It has a simple and easy metering system that allows changing of seed varieties with less seed waste and provides assurance of better germination.
- 4. The metering device is designed with a combination of aluminium & cast iron for better performance & durability.
- 5. It is low maintenance combination of Seed Planter and Rotary Tiller which is easy to operate and handle.
- 6. The fluted roller type metering system is controlled by single hand lever.
- 7. It is designed to work in extreme weather conditions.
- 8. It can also be used as a stand-alone rotary tiller.
- 9. Specially designed blade are used to tackle stubbles and crop residue properly.
- 10. Spherical wire embeded transparent PVC pipes are used as seed & fertilizer pipe for long life and durability.

1.2 WARNING SIGNAL

REMEMBER SAFETY FIRST

Operator must read the instruction manual before operating the rotary tiller. Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.



1.3 DANGER SIGNAL

1. Sharp objects could be thrown up keep a safe distance from the rotary tiller.



2. Risk of injury to leg



3. Keep away from the moving parts. Never remove guards while working.



4. Your implement is not designed to carry passengers - NO RIDER



5. Never allow anyone to stand between the tractor and implement while an operator is backing up to the implement.



6. Keep away from the cardan shaft. Keep away from the moving parts.



1.4 PERSONAL PROTECTIVE EQUIPMENT



1. Do not wear loose fitting dress, dangling jewellery. Long hair should be tied back to avoid entangling.
2. Wear appropriate footwear. Soft cloth shoes or sandals are not safe around any type of equipment.
3. Wear hearing protection such as earplugs or other devices that will minimize sounds. But will not interfere with your ability to hear traffic or other noises that may alert you to potential hazards.
4. Do not operate any machinery while talking on a cell phone or other portable devices such as MP3 players, as these are considered distractions- operating any farm equipment requires the operator's full attention.



1.5 EQUIPMENT SAFETY GUIDELINES

1. Read safety instructions for both the tractor and this tiller before use.
2. Never exceed the advised limits of the tractor or the tiller.
3. This equipment is dangerous to children and those unfamiliar with its operation. DO NOT ALLOW children to operate or play around equipment.
4. Operator should be an adult who is familiar with operating the tractor and the tiller.

Operator should be physically and mentally fit before operating machinery. Fatigue, stress, alcohol and drugs may impair the ability for safe farm machinery operation.

1.6 INDICATOR SIGNALS

1. Coupling point for lifting (Indicating the maximum capacity)
2. Oil fill plug.
3. Oil drain Plug.
4. Oil Level Plug.
5. Greasing point.
6. Identification Plate.

1.7 IDENTIFICATION

Each individual rotary tiller has an identification plate indicating the following details, which should be copied into the handbook along with the date of purchase:

1. Machine type.
2. Machine model.
3. Serial number.
4. Year of manufacture.

2. SAFETY AND ACCIDENT PREVENTION

Pay great attention to the danger signal indicated in this handbook. There are three types of danger signals:

Danger: This signal warns for serious injuries, death or long-term health risks would be caused by failure to correctly carry out the described operations.

Warning: This signal warns for serious injuries, death or long-term health risks that can be caused by failure to correctly carry out the described operations.

Caution: This signal warns for damage to the machine could be caused by failure to carry out the described operations.

Thoroughly read all the instructions before using the rotary tiller. Contact the technicians of your authorized dealer in case of doubt. The manufacturer declines all and every responsibility for injury/accidents in event of non-compliance of following safety and accident preventing provisions.

- 1) Comply with the instructions given by the danger symbols in this handbook and affixed to the steerage hoe itself.
- 2) Never touch any moving part.
- 3) Minor maintenance and adjustments to the rotary tiller must always be carried out when the engine is off and the tractor braked.
- 4) It is absolutely forbidden to carry passengers or any animals on the rotary tiller.
- 5) It is absolutely forbidden for a person without a driving license, untrained person or those in precarious health conditions to drive the tractor with the rotary tiller mounted.
- 6) Strictly comply with all the recommended accident preventing measures described in this handbook.
- 7) Assembly of a rotary tiller on the tractor will shift the weights on the axles. It is therefore advisable to add weights to the front part of the tractor in order to balance the weights on the axles themselves.
- 8) The coupled implement may only be controlled through the cardan shaft complete with the necessary safety devices for overloads and with the appropriate chains. Keep away from the cardan shaft while it is turning.
- 9) Before starting the tractor and implement, always check that all safety devices guarding transport and use are in perfect conditions.
- 10) The instruction labels affixed to the machine give useful advice on how to prevent accidents.
- 11) Always comply with the Highway Code in force in your country, when travelling on public roads.
- 12) Comply with the maximum permissible weight on the axle of the tractor, the total adjustable weight, transport regulations and the highway code.
- 13) Always be familiar with the controls and their operation before starting to work.
- 14) Avoid sharp turns as this may cause implement to ride up on the tractor's wheels and might result in serious injury and damage to your equipment.
- 15) As indicated, couple the implement to a tractor of adequate power and configuration, using a device (lift) conforming to the precautions.
- 16) Take the utmost care during the implement coupling and release phases.
- 17) Any accessories for transport must be equipped with adequate signals and guards.
- 18) Never leave the driving seat while the tractor is moving.
- 19) It is very important to remember that the road holding, steering and braking capacity may be notably influenced by the presence of towed or mounted implement.
- 20) Always take care of the centrifugal force exercised by the position of the center of gravity, when turning corners with the implement mounted.
- 21) Before engaging the PTO, check that the rpm rate is the same as prescribed. Never exchange the 540-rpm rate for 1000-rpm or vice versa.
- 22) It is absolutely forbidden to stand within the operative range of the machine where there are moving parts.
- 23) Before leaving the tractor, lower the implement coupled to the lift unit, stop the engine, engage the hand brake and remove the ignition key from the control panel.

- 24) It is strictly prohibited to stand between the tractor and the implement when the engine is running and the cardan shaft is engaging without having first engaged the hand brake and placing a block or stone under the wheels to prevent them from moving.
- 25) Always set the lift control lever to the locked position before coupling or releasing the equipment from the three-point coupling.
- 26) The category of the implement coupling pins should correspond to that of lift coupling.
- 27) Take care when working near the lift links. This is a very dangerous zone.
- 28) It is absolutely forbidden to stand between the tractor and the implement when handling the lift control from outside.
- 29) Fix the side lift links with the relative chains and idlers during the transport phase.
- 30) Set the control lever of the hydraulic lift to the locked position during road transport with the implement raised.
- 31) Only use the cardan shaft recommended by the manufacturer.
- 32) Check the cardan shaft guard frequently and periodically. It must always be in an proper condition.
- 33) Take great care of the cardan shaft guard, both in the transport and working positions.
- 34) The cardan shaft must only be installed or dismantled whilst the engine is off.
- 35) Take great care to ensure that the cardan shaft is correctly assembled and safe, and carefully check the P.T.O. of the rotary tiller and of the tractor.
- 36) Lock the rotation of the protection devices and read the respective cardan shaft Instruction manual thoroughly.
- 37) Before engaging the PTO, ensure that there's nobody in the field of action of the machine and that the selected running rate corresponds to the permissible value.
- 38) Never engage the PTO when the engine is on.
- 39) Always disengage the PTO when the cardan shaft is set at an excessively open angle (never beyond 10 degrees) and when it is not in use.
- 40) Only clean and grease the cardan shaft when the PTO is disengaged, the engine is off, the handbrake engaged and the ignition key is removed.
- 41) Rest the cardan shaft on its stand when not in use.
- 42) Refit the protective cap on the PTO shaft after having dismantled the cardan shaft.
- 43) Over use of the machine can overheat the gear box unit and parts of the hydraulic circuit. Never touch these parts immediately after use as they are very hot and can cause burns.
- 44) Never carry out maintenance or cleaning work unless the PTO has been disengaged, the engine switched off, the hand brake engaged and the tractor locked in position by a block or stone under the wheels.
- 45) Periodically check for all nuts and bolts to be fully tightened. Re-tighten them if necessary.
- 46) Always place adequate supports under the implement when servicing the machine or replacing the hoe blades with the implement raised.
- 47) Before working on the rotary tiller rotor, disengage the PTO, switch off the tractor engine, engage the hand brake and check that the blades are still.
- 48) Only use the recommended oils & grease.
- 49) The spare parts must correspond to the requirements established by the manufacturer. Only use genuine spare parts.
- 50) The safety instructions must always be perfectly visible. They must be kept clean and should be replaced if they become illegible. Replacements are available on request from your local dealer.
- 51) The instruction manual must be kept for as long as the machines last.

3. INSTRUCTIONS FOR OPERATOR

MACHINES SUPPLIED PARTLY

3.1 BROKEN-DOWN

When large volumes are involved, machines can be supplied with parts detached or removed (but always in the same packaging units).

Normally the 3-point frame is shipped separate and will later be fixed to the machine at the customer premises. Execute these installation operations with the utmost care.

Refer to the list of parts in the spare parts catalogue. In particular, apply the screw tightening torques as listed in the chart.

3.2 BEFORE USE

Before starting the machine, check that:

1. The machine is perfectly in order that the lubricants are at the correct levels.
2. Check the rotary tiller is correctly fitted & positioned to obtain the right working depth.
3. Check air breather valve is fitted on gear box and side gear cover.

WARNING

None of the following servicing, adjustment and the preparation operations should be carried out unless the PTO is disengaged, the machine is on the ground, the tractor engine is off and the tractor itself is safely parked & braked.

3.3 HITCHING TO THE TRACTOR

The rotary tiller is coupled to the tractor when the tiller is on the ground. The ground area should be flat.

All the rotary tillers can be attached to any tractor with a class 1 or 2 universal 3-point hitch.

Depending on the precise dimensions of these two of hitches, find the best position for the rotary tiller by moving the front plates along the square tube and insert the pin in the holes corresponding to the correct diameter for the tractor's parallel arms.

DANGER

Mounting of any implement to a tractor is a very dangerous operation and must only be carried out with the utmost care in compliance with the instructions.

The correct tractor/steerage hoe position is established by setting the implement at such a distance from the tractor that the universal coupling remains 2"-4" from its maximum closing position. Now proceed in the following way:

1. Near the lift bars, setting them in the most suitable place insert the pin into the relative hole and lock in place with the lynch pins.
2. Lock the lift links using the relative chains and couplings parallel to the tractor.
3. Engage the cardan shaft and check that it is perfectly locked on the PTO. Check that the guard is free to turn and fix it with a relative latch. Remove the cardan shaft support and reposition it by fixing it on the relative hook.
4. Connect the upper third point and correctly regulate by means of the adjuster checking that the upper surface of the steerage hoe is parallel to the ground. This is very important since it achieves parallelism between the axis of the steerage hoe and that of the tractor PTO. When the implement operates in these conditions, there will be less stress on the PTO itself while the cardan shaft and implement will be much less subjected to wear.
5. Besides supporting the leveling plate and acting as shock absorber for it during road transport, the spring ram prevents the steerage hoe from overturning when parking. The effect of the leveling plate on the soil can be increased or decreased depending upon the position, established by the split pin in the various holes in the ram tube.

6. When the machine is operating parking stand should be removed. Parking stand should only be installed when the rotary tiller has been lowered to the ground & the machine is parked.

3.4 CARDAN SHAFT

Cardan Shaft adaptation

The cardan shaft, supplied with the machine, is of standard length. Therefore, it might be required to adapt the cardan shaft. In that case, before taking any step consult the Manufacturer for the eventual adaptation.

CAUTION

When the cardan shaft is fully extended, the two tubes must overlap by at least 4"-6". When fully inserted, the minimum play must be 1.6".

If the implement is used on another tractor, always check that the guards completely cover the rotating parts of the cardan shaft.

CAUTION

1. Never allow the steerage hoe to operate out of the soil. During work, avoid turning corners while the implement is working. Never work in reverse. Always raise the implement in order to reverse or change direction.
2. During transport, or whenever the implement must be raised, it is advisable to adjust the lift unit of the tractor so that the implement itself is not raised more than about 1.3' from the ground.
3. Do not drive on public highways if the machine is dirtied with soil, grass as it hampers the road traffic.
4. Lower the machine slowly to allow the blades to gradually penetrate the soil.
5. Do not allow it to drop violently on to the ground. To do this would strongly stress all the machine components and could damage them.

3.5 WORKING DEPTH

Rotary tiller working depth is regulated on the basis of the position of the following devices:

1. Side skids

Machine with skids: To adjust working depth on this type of machine you must loosen the adjustment pin and raise or lower the skid to the desired extent. Then reposition the pin. Both skids should be subjected to this operation, which will vary according to the type of soil.

3.6 CHAIN TENSIONER

A special mechanical chain tensioner regulates the tension of the drive chain. This device works against coiled spring tensioner.

3.7 HOE BLADES

Check the degree of wear and condition of the hoe blades daily. If the blades accidentally bend (or break) during work, they must be immediately replaced. Remember to mount the new hoe blade in exactly the same position as the old one. If several hoe blades must be replaced, it is advisable to remove and assemble one hoe blade at a time in order to prevent positioning errors.

The steerage hoes are normally equipped with 4 blades per flange. When the soil is dry to clog it is, however, possible to mount 6 hoe blades per flange. The heads of the bolts fixing the hoe blades in place must be on the side of the hoe blades themselves, while the nut with relative washer must be on the flange side. Apply the tightening torques as listed in the chart. If the hoe blades must be changed, remember to set the new blades in the same positions as the dismantled ones.

3.8 IN WORKING

Start working with the PTO at running rate, gradually lowering the steerage hoe into the soil. Never excessively press down on the accelerator pedal when the PTO is engaged. This could be very harmful for both the steerage hoe and the tractor itself. When choosing how much to break up the soil that is to be rotary hoed the following points must be considered:

1. The type of soil (mixed, sandy, clayed etc.)
2. How deep to hoe
3. The forward moving speed of the rotary tiller/tractor.

The soil is best broken up and rotary hoed with a slow forward moving speed of the tractor, with the leveling blade lowered and a blade carrying rotor rotation speed of about 180-210 rpm. The plank helps to produce a well-leveled and smooth surface after hoeing.

If the plank is raised the sods/clog are no longer broken up and there will not be a smooth, level finish.

3.9 HOW IT WORKS

Position the Plank according to how finely broken soil should be. Position the depth of the two skids that are on the sides of the rotary tiller. Start to move the tractor forward gradually lowering the rotary tiller.

After a short distance check whether the soil is being hoed to the depth required, broken up finely enough and levelled enough.

CAUTIONS

In order to prevent breakages or damage, the speed of the tractor must never exceed 2-5 km/hr while the implement is working.

3.10 TROUBLESHOOTING HINTS FOR THE TRACTOR OPERATOR

INSUFFICIENT DEPTH

1. Check the positioning of the two depth skids.
2. Move forward slower as the power of the tractor may be insufficient.
3. If the soil is too hard a second or third hoeing may be required.
4. If the hoe blades are rotating on top of the soil instead of cutting into it proceed more slowly.

THE SOIL IS TOO FINELY BROKEN UP

1. Raise the leveling blade.
2. Increase the forward moving speed of the tractor.

THE SOIL IS NOT BROKEN UP FINELY ENOUGH

1. Lower the leveling blade.
2. Reduce the tractor speed.
3. Don't work soil that is too wet.
4. In the rotary hoes fitted with a leveling bar, raise or lower this so as to keep the sods closer to the hoe blades.

CLOGGING UP THE ROTOR

1. The soil is too wet for hoeing.
2. Raise the leveling blade.
3. Reduce the tractor speed.
4. Reduce the number of the hoe blades per flange from six to four.
5. Avoid hoeing where there is long grass.

THE ROTARY HOE BOUNCES OVER THE SOIL OR VIBRATES

1. There are foreign bodies caught between the hoe blades.
2. The hoe blades have been incorrectly assembled thereby not forming. The helix shape or with the blunt edge placed to cut into the soil first instead of the cutting edge.
3. Worn or broken hoe blades.
4. The rotor is deformed because of blows to the central part caused by foreign bodies present during hoeing.

OTHER PROBLEMS

The rotary hoe does not hoe to the same depth over the whole width. E.g. if it hoes too deeply on the right side shorten the right arm of the lift bars and regulate the position of the right hand skid.

WORKING ON A HILL/SLOPE

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.

PRACTICAL NOTES

The hoed soil should be on the right of the driver the best system is to hoe the alternate strips.

3.11 PARKING

WARNING

Comply with the following instruction in order to ensure that the implement remains stable when released from the tractor.

1. Besides supporting the leveling plate and acting as a shock absorber for it during road transport, the spring ram prevents the steerage hoe from over turning when parking.
2. Hold the cardan shaft with a suitable support.

4. MAINTENANCE

The various servicing operation are listed in the following paragraphs.

Lower running costs and longer machine life depend on constant and methodical compliance with these operations.

CAUTION

The given frequencies are indicative and refer to normal conditions of use. They may therefore be subjected to variations in relation to the type of service, in more or less dusty environment, seasonal factors, etc.

In the case of heavy-duty condition, the maintenance operation should obviously be more frequent.

Before injecting grease into the lubricators, the greasing points must be thoroughly cleaned to prevent mud, dust or foreign bodies from mixing with the lubricants, thus reducing or even annulling its lubricating effect.

When topping up or changing the lubricant, always ensure that the oil is of the same type as that used previously.

WARNING

Always keep oil and greases well away from children's reach. Always thoroughly read the warnings and precautions indicated on the containers.

Avoid contact with the skin.

Always thoroughly and fully wash after use. The utilized oils should be treated in compliance with the current anti-pollution laws.

4.1 EVERY 8 WORK HOURS

Grease the cardan shaft cross journals.

Check that the bolts fixing the hoe blades are well tightened.

4.2 EVERY 50 WORK HOURS

Check the level of the oil in the gearbox or in the reduction unit and top up to the level mark on the rod as necessary.

Transmission lateral part chain: check the level of the oil in the side casing of the transmission unit.

Add oil through the fill plug if necessary. It should flow from the level plug.

4.3 EVERY 200 WORK HOURS

Change the oil in the gearbox or in the reduction unit and transmission casing by completely draining of the old oil through the drain plug, under the reduction unit and through the transmission drain plug.

4.4 STORAGE

It is advisable to proceed in the following way at the end of the season or if the machine is to remain inactive for a long period of time:

1. Wash the implement, particularly removing chemical products and then thoroughly dry it.
2. Carefully check for any damaged or worn parts and replace these if necessary.

3. Fully check screws or bolts, particularly those fixing the hoe blades.
4. Thoroughly lubricate the implement and lastly protect it with a plastic sheet. Store it in a dry place.

Careful compliance with these instructions will be all to the advantage of the user who will be sure to use an implement in perfect conditions when work begins again. Remember that the manufacturer is always at your disposal for any assistance or spare parts as may be required.

4.5 LUBRICANTS

It is advisable to use SAE 140 EP Grade OIL or equivalent for the gear box unit and side transmission.

It is advisable to use high quality grease for all greasing points.

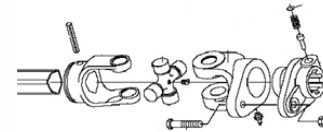
5. SERVICING TIPS

1. **Problem**-- P.T.O shaft is rotating with constant speed but not the gear box.

Cause of problem -- Safety bolt might be broken

Solution -- Replace the safety bolt.

- a) Remove the P.T.O shaft from the R.T side.
- b) Dislodge the safety bolt and replace it.



2. **Problem**—P.T.O shaft is making noise/ vibration.

Cause of problem – P.T.O cross is broken.

Solution—Change the P.T.O cross.

- a) Take the P.T.O shaft and check the cross of both side by rotating it.
- b) Remove the lock of the cross which is broken.
- c) Take out the cross by using hammer gently.
- d) Insert the new one properly then lock it.
- e) Rotate the yoke, it should rotate properly.
- f) Make the greasing properly.

3. **Problem**—Yoke is not fitting on the pinion shaft.

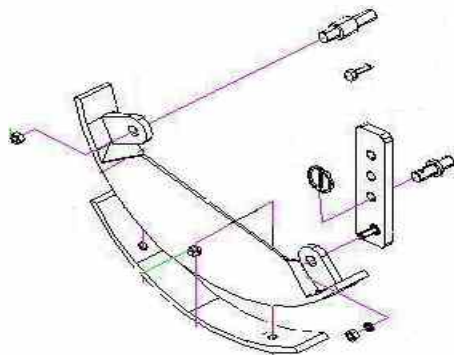
Cause of problem – Yoke pin is broken.

Solution—Replace the yoke pin.

- a) Clear the head of the pin push it with with hammer and remove it
- B) Replace it with new one.
- c) Take care of proper cleaning and greasing.

4. **Problem**—Rotary tiller is not taking proper depth.

Cause of problem— Side depth skids need to be adjusted.



Solution –

- a) Lose the side skid bolt .
- b) Shift the hole to the upper side.

2. Problem—R. T. is taking on one side more depth.

Cause of problem –linkage is not proper

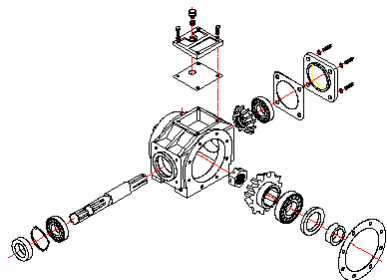
Solution –Linkage adjustment should be proper.

- a. Tractor linkage should be tight.
- b. There should not be any play more then 1.5".
- c. At the time of attaching the rotary tiller the R. T should be in proper leveled position.
- d. Both side skids should be in same bolt position.

3. Problem—Gear box is noisy.

Cause of problem –Play in bearing or teeth broken.

Solution –Replace the bearing or bevel gear.



- a) Open the top cover to see the wear of the teeth
- b) If the teeth of the gear is broken the bevel set needs to be replaced.
- c) Pull out the gear box and open the big flange.
- d) Then remove the back plate
- e) Pull out the pinion shaft using hammer or press machine.
- f) Replace the bearing, gear and seals.
- g) Make the fitment in the same way using new gasket.
- h) The gear should rotate freely.
- i) Assemble it back the breather valve should be clean and oiling should be checked.

2. Problem—Gear shafts are rotating but not the chain/rotor

Cause of problem –Transmission shaft / chain/ RD shaft is broken

Solution –Open the chain cover and replace the part which is broken.

- a. First remove the lock & loose the check nut.
- b. Pull out the sprocket assembly with chain.
- c. If the transmission shaft is broken, follow the same process as above and replace the shaft then assemble the gear box with rotary tiller.
- d. If chain is broken then replace the chain and assemble the sprockets together with chain & then tighten the check nuts.

For RD shaft the process will be different

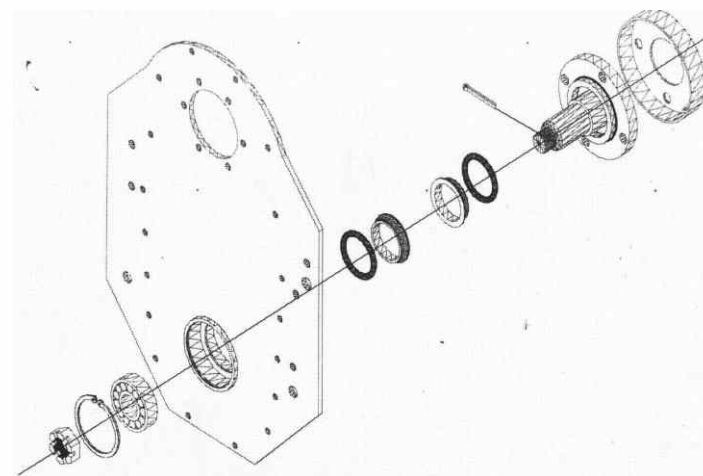
- e. First open the flange bolt of the rotor on both side (RD shaft and Dead shaft) and remove the rotor.
- f. Loosen the check nut of RD shaft and hammer it till it gets out from the RD shaft hub & then replace the RD shaft and tight the check nut. Take care of the seal as it should not be harmed with this replacement.

The same process be followed for dead shaft replacement.

3. Problem—Oil leakage from the RD shaft hub or dead hub.

Cause of problem –Seal is wearing out needs to be replaced it.

Solution – Open the hub assembly as before



- a. Take out the hub from the plate by loosening the bolts
- b. Remove the lock and pull out the shaft.
- c. Pull out the seal from both shaft and hub then replace it with new one
- d. Inspect the position of bearing and hub if it is ok. Clean it and assemble as before.
- e. Proper greasing is very necessary in assembly processes.

6. Seed & Fertilizer Box

The seed & fertilizer box set is depicted in figure 5. Trapezoidal shaped seed & fertilizer boxes are mounted side by side on the frame fertilizer box in the front & seed box in the rear.

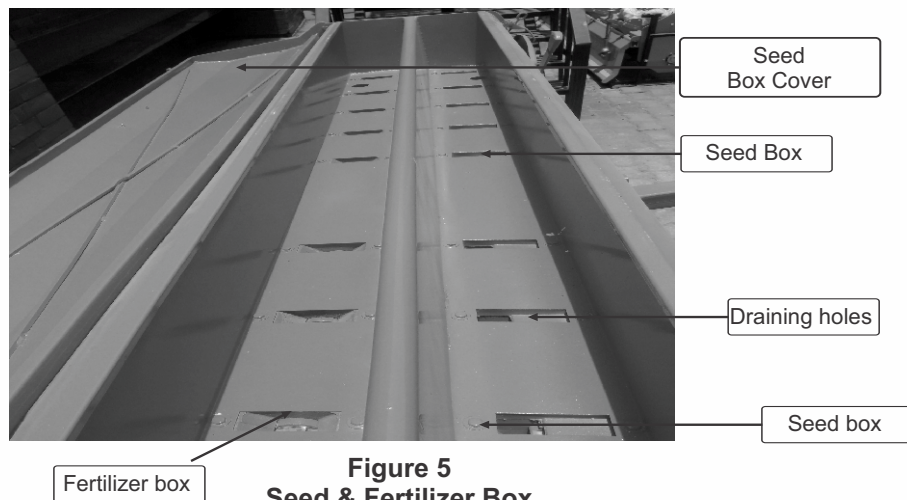


Figure 5
Seed & Fertilizer Box

7. Seed metering mechanism

The key elements of the seed metering system are depicted in Figure 7, 8 and 9 and described as under

- **Seed & Fertilizer Box:** It is used to store the seed & fertilizer in the machine
- **Fluted rollers:** Fluted rollers are attached to the shaft. As the shaft rotates, the fluted roller also rotates and seed delivered to the seed delivery pipe through the flow control tongue.
- **Seed rate adjusting lever:** Seed rate adjustment lever is attached to the seed box for increasing or decreasing the rate of seed into the fluted rollers. There is a scale on the adjusting lever which helps us in increasing or decreasing the seed rate.
- **Flow tongue adjustment lever:** There is a flow tongue adjustment lever also. It controls the flow of seed into the seed delivery pipe dropping from fluted roller.



Figure 7
Seed metering mechanism

- **Seed pipe:** It is used to take the seed from flow control tongue to the seed boot
- **Seed boot:** Seed boot finally drops the seed into the slit in the soil opened by the furrow opener.

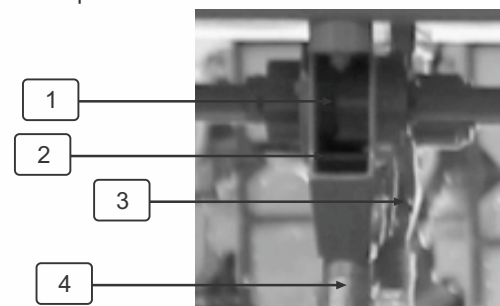


Figure 8
Fluted roller and components
1. Fluted roller 2. Flow tongue
3. Flow tongue adjusting lever
4. Seed pipe

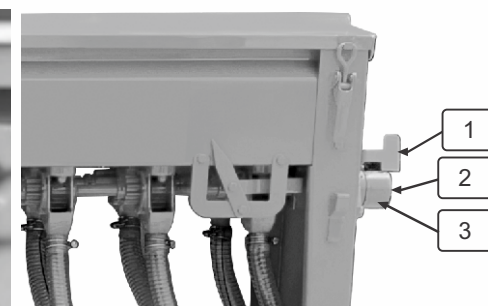


Figure 9
Seed adjustment lever
1. Lever
2. Scale 3. Adjusting nut

2. Seed delivery pipe: It is used to take the seed from cups to the seed boot.
3. Seed boot: Seed boot finally drops the seed into the slit in the soil opened by the furrow opener.

8. PTO Shaft

The power transmission system by the PTO shaft is depicted in PTO shaft provides drive to the flails. The PTO shaft of tractor is first attached to the PTO gear box with the help of PTO attachment shaft. There is a PTO drive shaft in the machine which provides the drive to the PTO drive pulley. A belt joins the PTO drive pulley to the flail drive pulley which rotates the flail shaft and hence, the flails get drive from PTO shaft and start to rotate.

9. Drive wheel

Drive wheel provides necessary power to meter the seed delivery from machine to the soil. As the drive wheel rotates, the chain mechanism starts to move through driving and driven shafts as shown in the chain rolls over the seed sprockets/gear. These sprockets/gears rotate the seed shafts. As the seed shaft rotates, the fluted rollers (seed metering mechanism) start to work and the seed delivers to the seed delivery pipes. There is flip gate which can be opened to apply oil/grease to the chain whenever necessary.

10. Seed delivery pipes

Seed delivery pipes are attached to the seed box through the seed cups. These pipes carry the seed from the seed metering systems through aluminium flow control tongue/cups to the seed boot. Tubes should be connected firmly so that these may not come out during field operation. The precautions as outlined below must be taken for fixing/ use of delivery pipes:

- The pipes should be protected from bending and breakage.
- Old/bent pipes should be replaced.
- Excessive bend in the pipes should be avoided otherwise the bend will cause obstruction in free flow of seed and results in non-uniform seed placement and crop establishment.
- The pipes must be inserted about one inch into the seed boot.



Radius of drive Wheel

Take the seed delivery pipes out from the boots and put delivery outlets of the pipes in the polythene bags and tight them using rubber rings. Run the machine and collect the seeds from each delivery pipes after 50 meter run of the machine. The amount of seed collected from each delivery pipes in 50 meter run is then weighed in grams. Then we calculate the seed rate by the given formula

One acre = 4000 m²
 Width of machine = x (m)
 Distance = 50 m

Weight of seed in pipes = y (kg) Seed rate (kg/ acre) =

$$\left(\frac{\text{Weight of seed or fertilizer (Kg.)} \times \text{Area / acre (400 m}^2\text{)}}{\text{Width of machine (m)} \times \text{distance covered (m)}} \right)$$

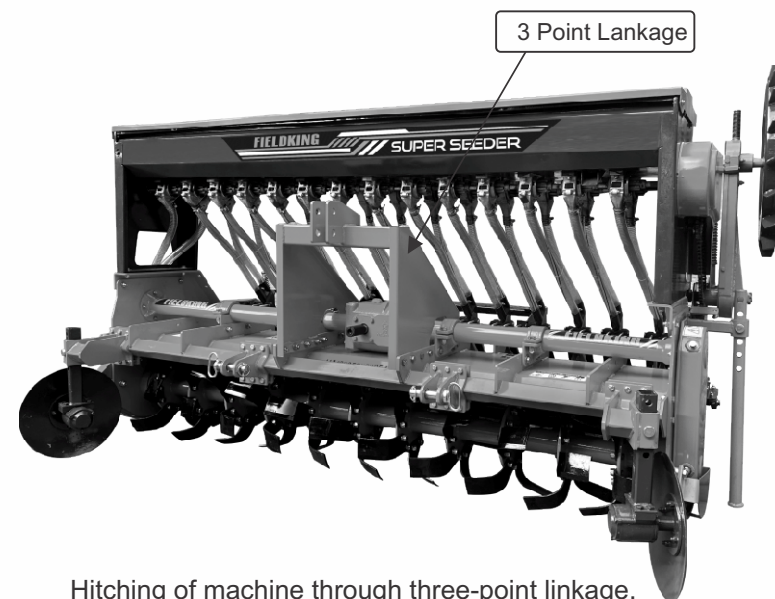
If the seed rates are not as per the desired rates, then re-set the indicators or the inclined plates, gears etc in accordance to the desired rates and repeat the whole process of field calibration as described above.

11. Hitching of machine

The machine has three standard hitch points; two lower and one upper. The machine is attached to tractor through these three hitch points with the help of link pins (Figure 24). The top link hitch point also helps in leveling the machines. The three point hitch adjustments where the machine fixes to the tractor should be adjusted. The machine should be level from side to side and have just enough forward and backward adjustment to enter the soil at the proper angle.

12. Operating the Super Seeder

With the help of three point linkage, the machine is attached to the tractor of optimal capacity (hp) as per the size of machine. After hitching the seed drill, the PTO shaft of tractor is attached to the PTO shaft linkage of machine which gives drive to the flail with the help of belts. The seed drill is to be calibrated and adjusted as per the requirements i.e. seed rate, depth of sowing, plant to plant spacing as per the crop and field conditions.



Hitching of machine through three-point linkage.

As the tractor moves, the drive wheel starts to rotate which gives drive to the seed shaft. As the shafts start to move, the seed metering (fluted rollers, inclined plates) also start to move and the seed drops through seed delivery pipes and further to the seed boots. The seed boots are attached to the slits. Now the seed placed into the soil as the furrow openers are penetrating in soil. As the machine gets power from PTO shaft, the flails start rotating and they clean and shift the residue in front of the furrow openers so as the residues doesn't drag and accumulate in seed rows.

12.1 Tips for proper working of the machine

The soil moisture must be optimum for the operation of the machine. For proper operation of Super Seeder, the soil moisture must be slightly lower than the field capacity. The ruts will be formed if the moisture content of the soil is more than optimum which will lead to the uneven placement of the seeds. To obtain the proper efficiency of the machine (uniform and good plant stand) it is advisable to uniformly distribute the crop residue in the field before operating Super Seeder either by straw spreader or manually.

There are chances of the more moisture content in the residue in the morning time due to dew which may cause wrapping of the loose straw on the flails which hinders the rotary movement of the flails. Therefore, it is advised to operate the Super Seeder after the dew dries. Adjust the depth of sowing through depth control wheels instead of using the hydraulic lift. Using the hydraulic lift to control the sowing depth may cause the touching of flails to the ground which may damage flails and also cause uprooting of the anchored residue. The ground clearance of the flails must be about 1" to 1.2". The broken flail must be replaced before the further operation of the machine. Otherwise the excessive vibrations in the machine will lead to further breakage of other parts of the machine.

12.2 Maintenance

The machine should be properly serviced and maintained. It should be checked before use to ensure that all the nuts and bolts are tightened and that all the parts are in good condition. The seed boxes should also be in good condition to allow free flow of seed. Chains should be adjusted and oiled. The tension of the belt should be proper. After use at the end of each day, the machine should be checked, the seed boxes cleaned, and the moving parts oiled.

12.3 Operating notes for the machine

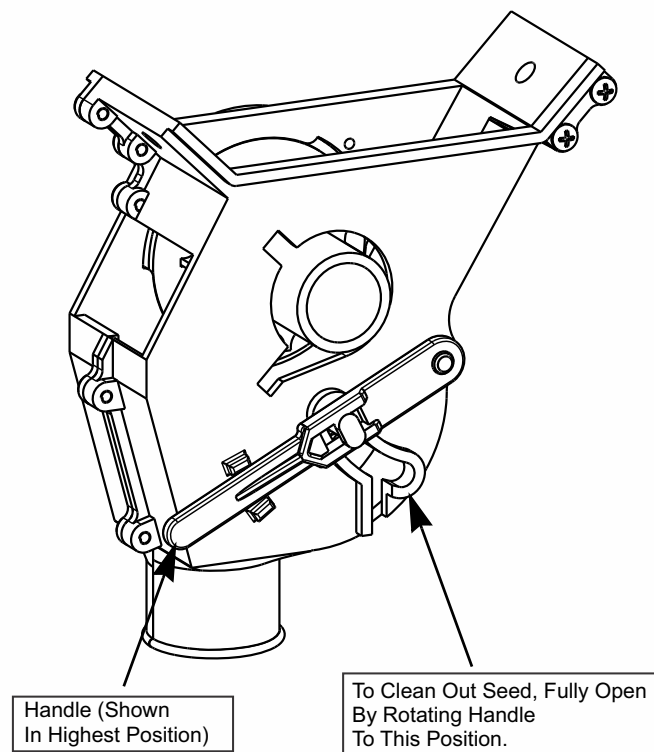
12.3.1 Before operation

1. Before operating the Super Seeder for the first time, carefully read this manual and understand all the steps. Become familiar with the mechanism, adjustments and operating methods. Before each use in the field, review this list to make sure all necessary items are checked and adjusted.
2. Preferably the fields should be laser leveled for direct drilling of crops so as to ensure uniformity in soil moisture across the field. Laser land leveling helps in achieving uniform depth of seeding and thus helps to achieve good crop establishment in residue conditions.
3. Ensure that the soil moisture content at the time of planting is optimal and uniform so as to have uniform crop establishment.
4. Soil moisture content is critical for machine operation as excess soil moisture can cause uprooting of anchored residues, followed by machine choking and on the other side low soil moisture affects the wheat germination.
5. Check the condition of the seeder and make any adjustments or repairs necessary. In particular, the fasteners, blade bolts and welds before operating. Replace any broken or worn out parts.
6. Make sure that the seeds to be planted are clean, and free of soil and pebbles.
7. Add the seed to the seed box. Do not fill the seed box more than three quarters full, in order to prevent the buckling of the seed box.

Other Information About Seed Gun Setting

Seed Gun Settings

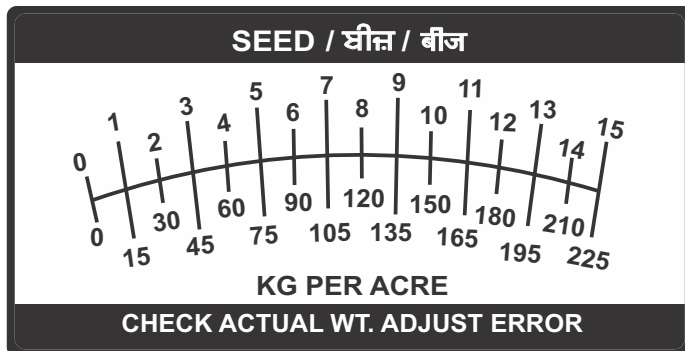
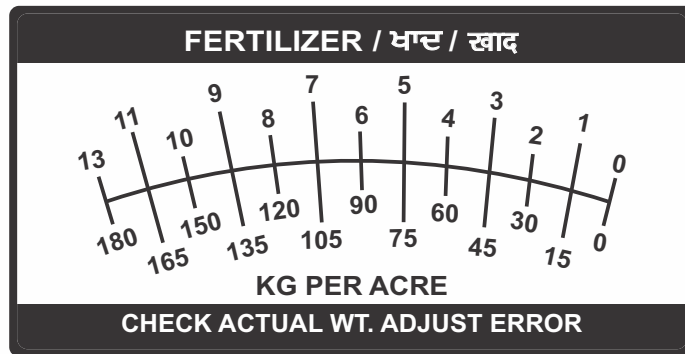
Each seed gun is equipped with a four-position gate. The highest handle position shown is for small seeds, the second and third positions are for larger seeds. The fourth position (Handle rotated fully down below the bottom tab) sets the wide open to allow complete clean-out of seed gun. Seed quantity is based on the handle being set in the highest position. Typically, most seeds will use the highest handle position. If using larger seed and it is not discharging properly, you can try using the other two handle positions.



IMPORTANT: Most applications for this seeder require the handle be placed in the highest position.

MAKE SURE all handles are in the same position before seeding. Do Not set handles in the fourth position and seed quantity adjustment lever to the widest open position with seed in the box unless complete clean out is desired.

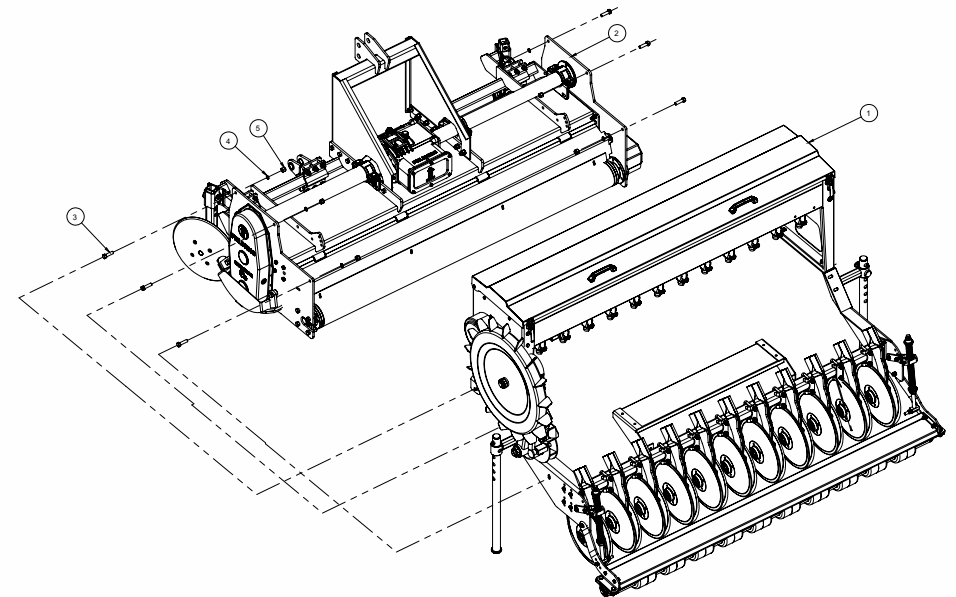
CALIBRATION CHART



12.3.1 Dismantling of Seeding Mechanism

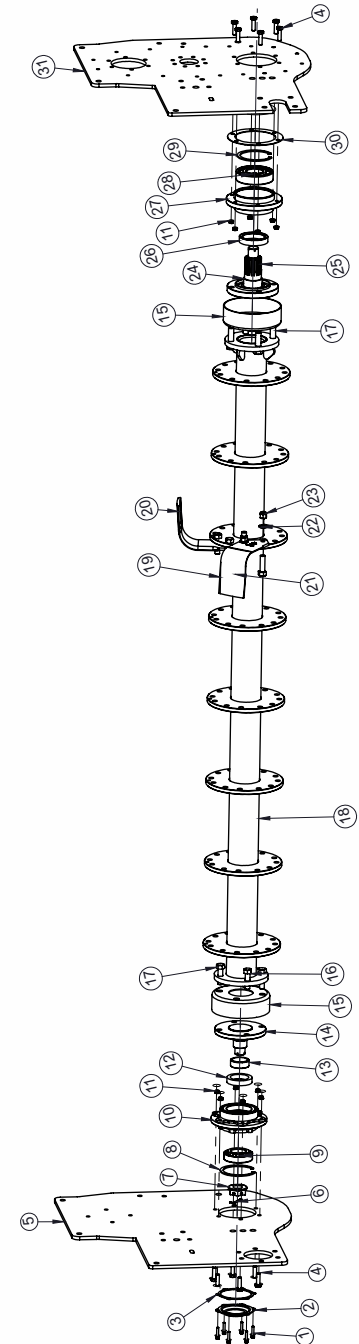
As Super Seeder is designed for both operations of tillage and Seeding in one operation. It can also be converted into Rotary Tiller by following the instructions given below:-

The machine has two major Assembly. (1) Rotary Tiller Assembly and (2) Seeding Mechanism Assembly. So it can be easily converted into Rotary Tiller by detaching Seeding mechanism Assembly (2) from rotary tillage Assembly (3) by Choosing 6 Nos. of Hex Bolt M14X2X50 (4) Spring Washer and (5) Hex Nut.



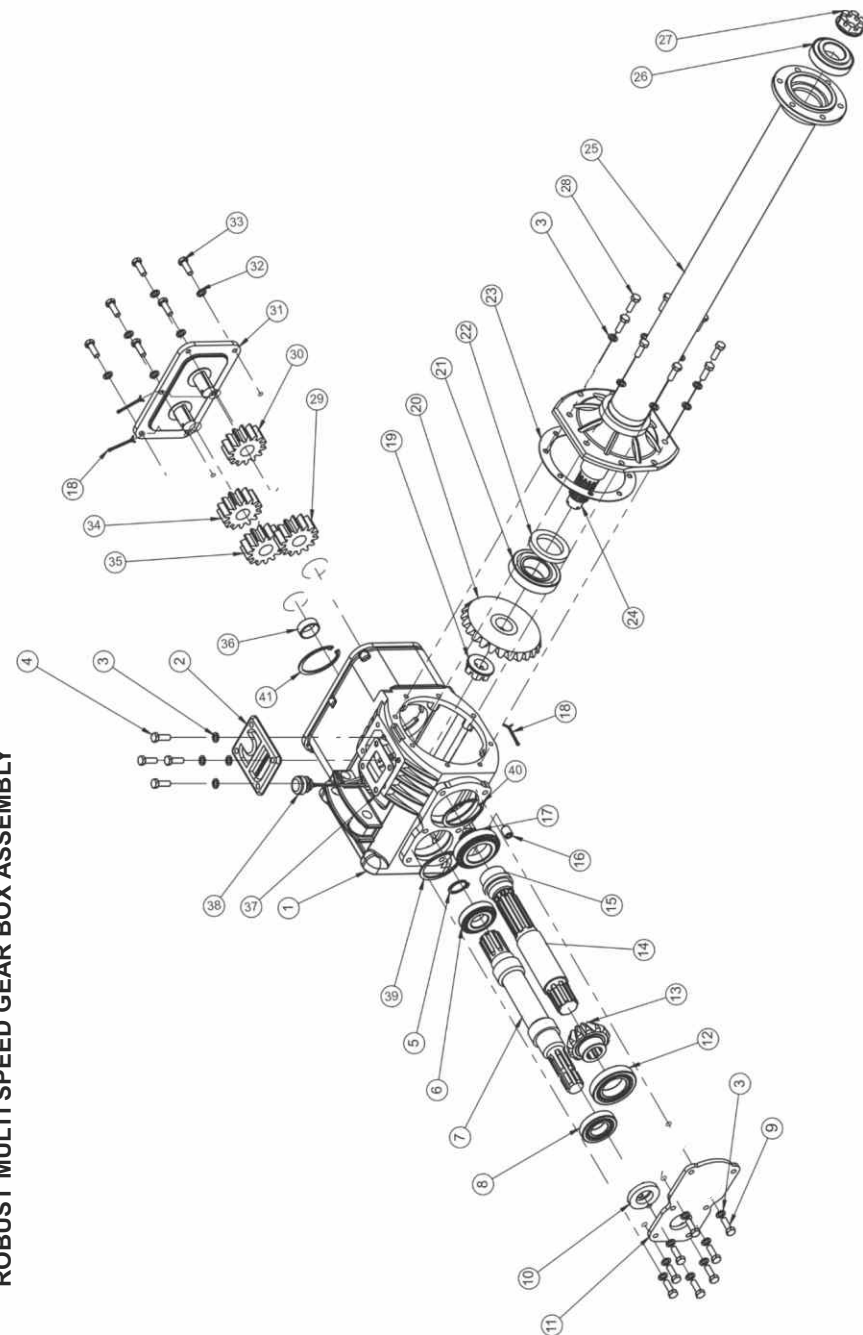
ROTARY TILLER SIDE PLATE AND ROTOR ASSEMBLY			
SR. NO	DESCRIPTION	ITEM CODE	QTY.
1	HEX HEAD BOLT 6X16X1MM (P)	10260359	6
2	DEAD HUB CAP ROUND	10180001	1
3	GASKET DEAD HUB CAP	10040026	1
4	HEX. HEAD BOLT M10X35X1.5	10260353	12
5	SIDE PLATE DEAD SIDE (19X33X25)	72350279	1
6	SPLIT PIN 1/8X2.5 INCH	10020097	1
7	CASTLE NUT M30X1.5	10280093	1
8	CIRCLIP 95MM	10390014	1
9	BEARING 6308	10050051	1
10	DEAD HUB (OIL SEAL TYPE) (ROUND) NEW	10090021	1
11	PLAIN NUT 10X1.5MM	10280036	12
12	OIL SEAL 55X75X15	10010023	1
13	DEAD SHAFT BUSH	10070042	1
14	DEAD AXLE SHAFT NEW ROUND (OIL SEAL TYPE)	10110002	1
15	ROTOR COVER	10150003	2
16	SPRING WASHER 16MM	10270005	8
17	HEX HEAD BOLT M16X35X1.5MM	10260369	8
18	ROTOR ASSEMBLY (2.00 MTS.)	73220009	1
	ROTOR ASSEMBLY (2.25 MTS.)	73220010	
19	JF TYPE BLADE LHS	10060058	3 PER FLANGE
	LC TYPE BLADE LHS	10060067	
20	JF TYPE BLADE RHS	10060057	3 PER FLANGE
	LC TYPE BLADE RHS	10060066	
21	HEX HEAD BOLT M14X40X1.5MM	10260357	12 PER FLANGE
22	SPRING WASHER 14MM	10270004	12 PER FLANGE
23	NYLOCK NUT M14X1.5 P	10280004	12 PER FLANGE
24	RD SHAFT BUSH	10070002	1
25	RD SHAFT (OIL SEAL TYPE) 10 SPLINES	10290017	1
26	OIL SEAL 65X85X16(DOUBLE SPRING TYPE)	10010136	1
27	RD HUB (OIL SEAL TYPE) (ROUND)	10090010	1
28	BEARING 6310	10050053	1
29	CIRCLIP 118MM	10390013	1
30	GASKET RD HUB	10040025	1
31	SIDE PLATE DRIVE SIDE (19X33X25)	72350278	1

SIDE PLATE & ROTOR ASSEMBLY



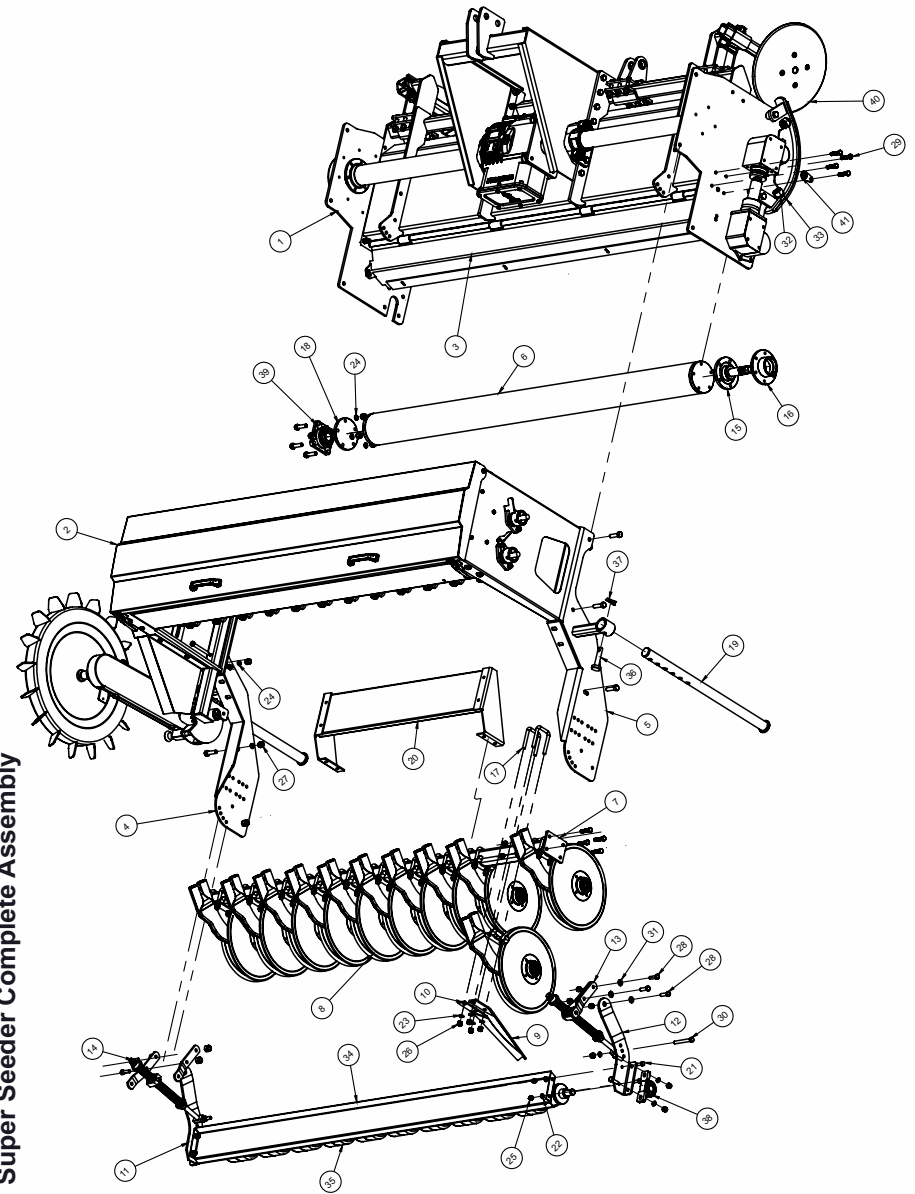
ROBUST (14x25) MULTI SPEED			
SL. NO.	PART DESCRIPTION	ITEM CODE	QTY
1	GEAR BOX HOUSING MULTISPEED	10080007	1
2	MS GEAR BOX TOP PLATE	70090008	1
3	SPRING WASHER M10	10270002	18
4	HEX HEAD BOLT M10X1.5X25	10260361	4
5	EXTERNAL CIRCLIP 42 MM	10390015	2
6	BEARING 30209	10050018	1
7	DRIVE SHAFT 402 MM LENGTH	10290045	1
8	BEARING 32208	10050021	1
9	HEX HEAD BOLT M10X1.5X30	10260396	6
10	OIL SEAL 40X80X10	10010005	1
11	ROBUST M.SPEED FRONT BEARING PLATE	70090009	1
12	BEARING 30211	10050050	1
13	PINION GEAR 14 TEETH/8 SPLINES	10250024	1
14	PINION SHAFT 287 MM LENGTH	10290044	1
15	SPLINED BUSH PINION SHAFT 8 SPLINES	10070062	1
16	DRAIN PLUG	10300118	1
17	BEARING 30211	10050050	1
18	SPLIT PIN 1/8 X 2.5INCH	10020097	2
19	CASTLE NUT 30X1.5	10280093	1
20	BEVEL GEAR 25 TEETH-8 SPLINES	10250022	1
21	BEARING 33112	10050088	1
22	OIL SEAL 60X80X10	10010065	1
23	GASKET BIG FLANGE MS	10040037	1
24	TRANSMISSION SHAFT 2.00 MTR.	10290216	1
	TRANSMISSION SHAFT 2.25 MTR.	10290217	
25	TRANSMISSION PIPE ASSEMBLY 2.00 MTR.	74380012	1
	TRANSMISSION PIPE ASSEMBLY 2.25 MTR.	74380013	
26	BEARING 32209	10050013	1
27	CASTLE NUT 30X1.5	10280093	1
28	HEX HEAD BOLT M10X1.5X35	10260353	8
29	SPUR GEAR 18 TEETH 8 SPLINE	10205105	1
30	SPUR GAER 19 TEETH 8 SPLINE	10250046	1
31	ROBUST BACK COVER PLATE GEAR BOX HOUSING	10150018	1
32	SPRING WASHER M8	10270001	6
33	HEX HEAD BOLT M8X1.5X25	10260360	6
34	SPUR GAER 17 TEETH-8SPLINE	10250045	1
35	SPUR GEAR 18 TEETH-8SPLINE	10205105	1
36	SPACER DRIVE SHAFT ROBUST MULTI	10290042	2
37	GASKET TOP PLATE	10040061	1
38	ROBUST DIP STICK	10300120	1
39	INTERNAL CIRCLIP B80	10390005	1
40	CIRCLIP 100MM	10390007	1
41	CIRCLIP 85 MM	10390032	1

ROBUST MULTI SPEED GEAR BOX ASSEMBLY



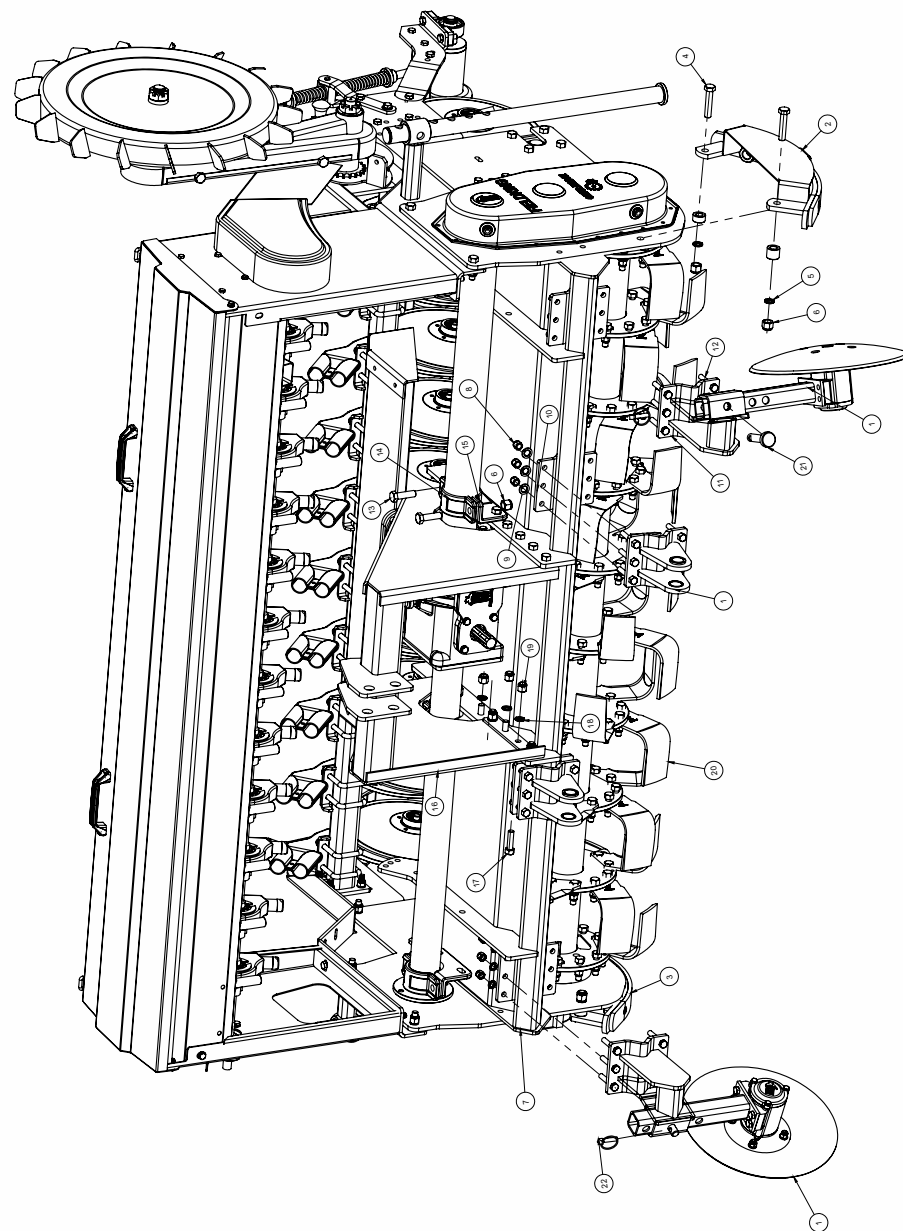
SUPER SEEDER COMPLETE ASSEMBLY			
SR. NO.	DESCRIPTION	PART NO.	QTY.
1	ROTARY TILLER COMPLETE ASSEMBLY-2.00 MTR 54 LC BLADE (SUPER SEEDER GEAR DRIVE) FOLDING TYPE	72350298	1
	ROTARY TILLER COMPLETE ASSEMBLY-2.00 MTR 54 JF BLADE (SUPER SEEDER GEAR DRIVE) FOLDING TYPE	72350299	1
	ROTARY TILLER COMPLETE ASSEMBLY-2.25 MTR 66 LC BLADE (SUPER SEEDER GEAR DRIVE) FOLDING TYPE	72350300	1
	ROTARY TILLER COMPLETE ASSEMBLY-2.25 MTR 66 JF BLADE (SUPER SEEDER GEAR DRIVE) FOLDING TYPE	72350301	1
2	HOPPER ASSEMBLY COMPLETE-12 TYNE (SUPER SEEDER 2.00 MTR 11 DISC) TOP MOUNTING	78390157	1
	HOPPER ASSEMBLY COMPLETE-14 TYNE (SUPER SEEDER 2.25 MTR 13 DISC) TOP MOUNTING	72350288	1
3	REAR PLANK ASSY-11 TYNE	72350181	1
	REAR PLANK ASSY-13 TYNE	72350182	1
4	DISC CUM HOPPER MOUNTING PLATE ASSY-RHS	72350293	1
5	DISC CUM HOPPER MOUNTING PLATE ASSY-LHS	72350294	1
6	PLAIN ROLLER ASSY-11 TYNE	72350179	1
	PLAIN ROLLER ASSY-13 TYNE	72350180	1
7	DISC MOUNTING PIPE ASSY-11 TYNE (SUPER SEEDER)	72350183	1
	DISC MOUNTING PIPE ASSY-13 TYNE (SUPER SEEDER)	72350184	1
8	TYNE ASSEMBLY COMPLETE WITH DISC_SUPER SEEDER	72350118	11/13
9	DISC SCRAPER_LHS(DISC TYPE SUPER SEEDER)	72350173	11/13
10	DISC SCRAPER_RHS(DISC TYPE SUPER SEEDER)	72350174	11/13
11	ROLLER ATTACHMENT PLATE_RHS (DISC SUPER SEEDER)	72350177	1
12	ROLLER ATTACHMENT PLATE_LHS (DISC SUPER SEEDER)	72350178	1
13	RT FRAME SHOCKER HOLDING CLAMP 37X8X237MM	70020012	4
14	SHOCKER ASSEMBLY ROTARY TILLER	73180001	2
15	DISC ROLLER HUB (SUPER SEEDER GEAR DRIVE)	10090113	2
16	DISC ROLLER AXLE (SUPER SEEDER GEAR DRIVE)	10110045	2
17	U-CLAMP 100X62X12MM	10220028	22/26
18	DISC ROLLER AXLE PLAIN	10110044	1
19	PARKING STAND (SUPER SEEDER)	72350306	2
20	OPERATOR STAND COMPLETE ASSEMBLY	72350155	1
21	HEX HEAD BOLT M10X30X1.5MM	10260396	4
22	SPRING WASHER 10MM	10270002	4
23	SPRING WASHER12MM	10270003	78
24	SPRING WASHER14MM	10270004	4
25	NYLOCK NUT M10X1.5	10280002	4
26	NYLOCK NUT M12X1.75MM	10280025	72
27	NYLOCK NUT M14X2MM	10280090	6
28	HEX HEAD BOLT M12X40X1.75MM	10260355	11
29	HEX HEAD BOLT M12X50X1.75MM	10260363	10
30	HEX HEAD BOLT M12X100X1.75MM	10260448	2
31	PLAN WASHER 12MM	10270010	2
32	PLAIN WASHER 14MM	10270030	1
33	HEX HEAD BOLT M14X50X2MM	10260386	6
34	ROLLER SCRAPER-11 TYNE (SUPER SEEDER GEAR DRIVE)	72350195	1
	ROLLER SCRAPER-13 TYNE (SUPER SEEDER GEAR DRIVE)	72350196	1
35	PRESS ROLLER ASSEMBLY-11 TYNE	72350185	1
	PRESS ROLLER ASSEMBLY-13 TYNE	72350185	1
36	PIN 19 X 90MM	10020026	2
37	LINCH PIN M10	10020022	6
38	BEARING UCP 205	10050442	2
39	BEARING UCF 207	10050389	1
40	SIDE GEARBOX COMPLETE KIT	103011715	1
41	PLANK SUPPORT PLATE	73460003	2

Super Seeder Complete Assembly



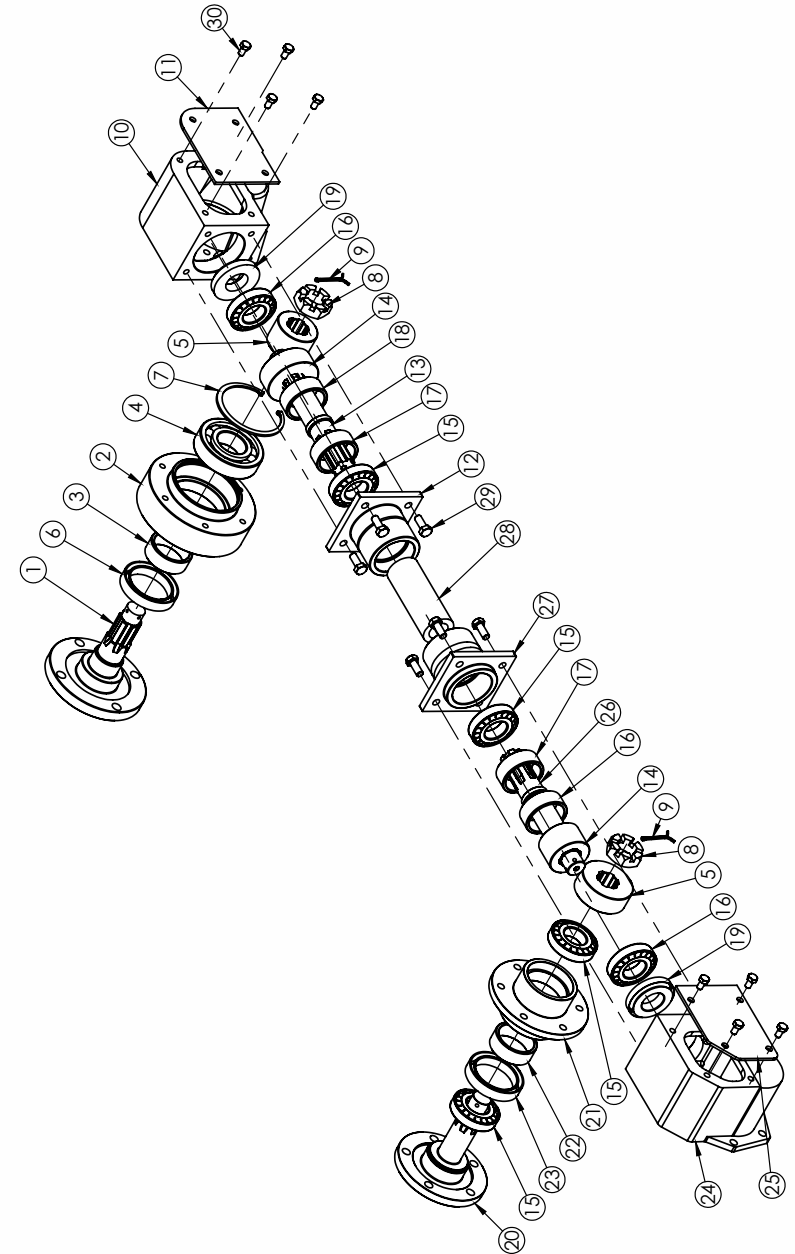
SUPER SEEDER COMPLETE ASSEMBLY (REAR)			
SR. NO.	DESCRIPTION	PART NO.	QTY.
1	REGULAR RT SIDE DISC ASSEMBLY-16X5MM (SPARE) (SUPER SEEDER)	78960014	2
2	RT DEPTH SKID ASSY-LHS (ROUND TYPE)	73420008	1
3	RT DEPTH SKID ASSY-RHS (ROUND TYPE)	71570030	1
4	HEX HEAD BOLT M16 X 75 X 2 MM	10260454	4
5	SPRING WASHER 16	10270005	8/12
6	NYLOCK NUT M16 X 2MM	10280005	8/12
7	FRAME ASSEMBLY ROTARY TILLER 2.00 MTR	70010320	1
	FRAME ASSEMBLY ROTARY TILLER 2.25 MTR	70010321	
8	SPRING WASHER M12	10270003	12
9	NYLOCK NUT M12 X 1.75	10280025	12
10	RT FRONT BRACKET LOWER PLATE	10120011	2
11	RT FRONT BRACKET UPPER PLATE	10120010	2
12	HEX HEAD BOLT M12 X 70 X 1.75 MM	10260407	12
13	HEX HEAD BOLT M16 X 55 X 2 MM	10260454	4/8
14	TRANSMISSION PIPE CLAMP UPPER (FORGED)	10220090	2/4
15	TRANSMISSION PIPE CLAMP LOWER (FORGED)	10220091	2/4
16	TPL ASSEMBLY	70010322	1
17	HEX HEAD BOLT M14 X 50 X 2MM	10260386	14
18	SPRING WASHER M14	10270004	14
19	NYLOCK NUT M14 X 2MM	10280090	14
20	ROTOR ASSEMBLY SUMO MODEL 2.00 MTR 54 BLADE	73220008	1
21	ROTOR ASSEMBLY SUMO MODEL 2.25 MTR 66 BLADE	73230006	2
	PIN 19 X 90	10020026	
22	LINCH PIN 10	10020022	2

Super Seeder Complete Assembly (Rear)



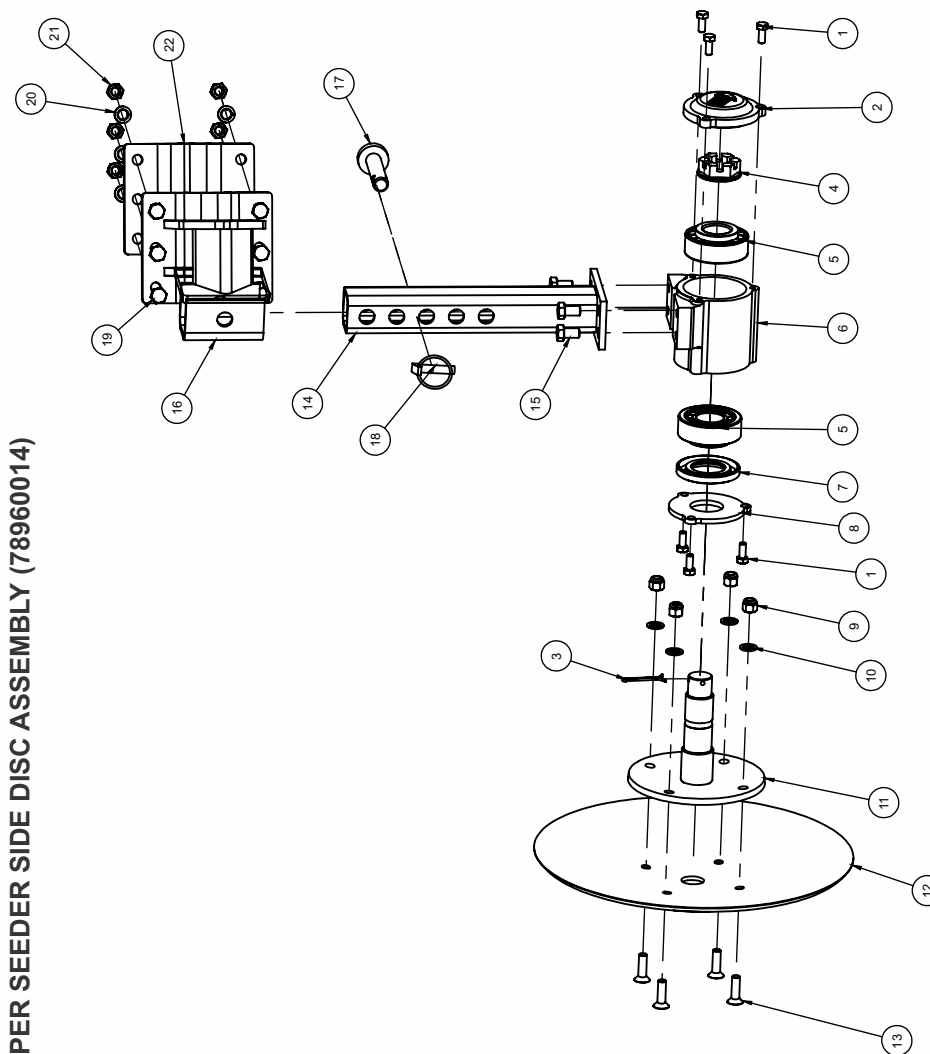
GEAR BOX ASSEMBLY (10301715)																																																																																																			
SR. NO.	PART NAME	PART CODE	QTY.																																																																																																
1	DEAD AXLE (SUPER SEEDER)	10110052	1																																																																																																
2	DEAD HUB (SUPER SEEDER)	10090132	1																																																																																																
3	SPACER BUSH 48X40X35L	10070342	1																																																																																																
4	BEARING 6309 2RS	10050487	1																																																																																																
5	HELICAL WORM GEAR 9TX6S	10250204	2																																																																																																
6	OIL SEAL 65X85X16	10010136	1 <tr> <td>7</td><td>INTERNAL CIRCLIP 105X3MM</td><td>10390190</td><td>1</td></tr> <tr> <td>8</td><td>CASLE NUT M28X1.5</td><td>10280448</td><td>2</td></tr> <tr> <td>9</td><td>SPLIT PIN 2X32</td><td>10020122</td><td>2</td></tr> <tr> <td>10</td><td>SIDE GEARBOX HOUSING DEAD HUB SIDE</td><td>10080041</td><td>1</td></tr> <tr> <td>11</td><td>HOUSING COVER PLATE DEAD HUB SIDE</td><td>10130100</td><td>1</td></tr> <tr> <td>12</td><td>BEARING HUB DEAD HUB SIDE</td><td>10090133</td><td>1</td></tr> <tr> <td>13</td><td>SIDE GEARBOX SHAFT DEAD HUB SIDE</td><td>10290263</td><td>1</td></tr> <tr> <td>14</td><td>HELICAL WORM GEAR 18TX6S</td><td>10250205</td><td>2</td></tr> <tr> <td>15</td><td>BEARING 30207</td><td>10050100</td><td>4</td></tr> <tr> <td>16</td><td>BEARING 30206</td><td>10050035</td><td>2</td></tr> <tr> <td>17</td><td>SPACER BUSH 47X35X32L</td><td>10070343</td><td>2</td></tr> <tr> <td>18</td><td>SPACER BUSH 47X35X35L</td><td>10070344</td><td>2</td></tr> <tr> <td>19</td><td>OIL SEAL 35X72X10</td><td>10010001</td><td>2</td></tr> <tr> <td>20</td><td>PLAIN ROLLER AXLE</td><td>10110045</td><td>1</td></tr> <tr> <td>21</td><td>PLAIN ROLLER HUB</td><td>10090134</td><td>1</td></tr> <tr> <td>22</td><td>SPACER BUSHX45X35X12L</td><td>10070345</td><td>1</td></tr> <tr> <td>23</td><td>OIL SEAL 65X80X12</td><td>10010204</td><td>1</td></tr> <tr> <td>24</td><td>SIDE GEARBOX HOUSING ROLLER SIDE</td><td>10080042</td><td>1</td></tr> <tr> <td>25</td><td>HOUSING COVER PLATE ROLLER SIDE</td><td>10130101</td><td>1</td></tr> <tr> <td>26</td><td>SIDE GEARBOX SHAFT ROLLER SIDE</td><td>10290264</td><td>1</td></tr> <tr> <td>27</td><td>BEARING HUB ROLLER SIDE</td><td>10090135</td><td>1</td></tr> <tr> <td>28</td><td>COULPER SHAFT (SUPER SEEDER)</td><td>10290262</td><td>1</td></tr> <tr> <td>29</td><td>HEX HEAD BOLT M8X1.25X15L</td><td>10261069</td><td>11</td></tr> <tr> <td>30</td><td>HEX HEAD BOLT M10X1.5X25L</td><td>10260361</td><td>8</td></tr>	7	INTERNAL CIRCLIP 105X3MM	10390190	1	8	CASLE NUT M28X1.5	10280448	2	9	SPLIT PIN 2X32	10020122	2	10	SIDE GEARBOX HOUSING DEAD HUB SIDE	10080041	1	11	HOUSING COVER PLATE DEAD HUB SIDE	10130100	1	12	BEARING HUB DEAD HUB SIDE	10090133	1	13	SIDE GEARBOX SHAFT DEAD HUB SIDE	10290263	1	14	HELICAL WORM GEAR 18TX6S	10250205	2	15	BEARING 30207	10050100	4	16	BEARING 30206	10050035	2	17	SPACER BUSH 47X35X32L	10070343	2	18	SPACER BUSH 47X35X35L	10070344	2	19	OIL SEAL 35X72X10	10010001	2	20	PLAIN ROLLER AXLE	10110045	1	21	PLAIN ROLLER HUB	10090134	1	22	SPACER BUSHX45X35X12L	10070345	1	23	OIL SEAL 65X80X12	10010204	1	24	SIDE GEARBOX HOUSING ROLLER SIDE	10080042	1	25	HOUSING COVER PLATE ROLLER SIDE	10130101	1	26	SIDE GEARBOX SHAFT ROLLER SIDE	10290264	1	27	BEARING HUB ROLLER SIDE	10090135	1	28	COULPER SHAFT (SUPER SEEDER)	10290262	1	29	HEX HEAD BOLT M8X1.25X15L	10261069	11	30	HEX HEAD BOLT M10X1.5X25L	10260361	8
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SIDE GEAR BOX ASSEMBLY (10301715)



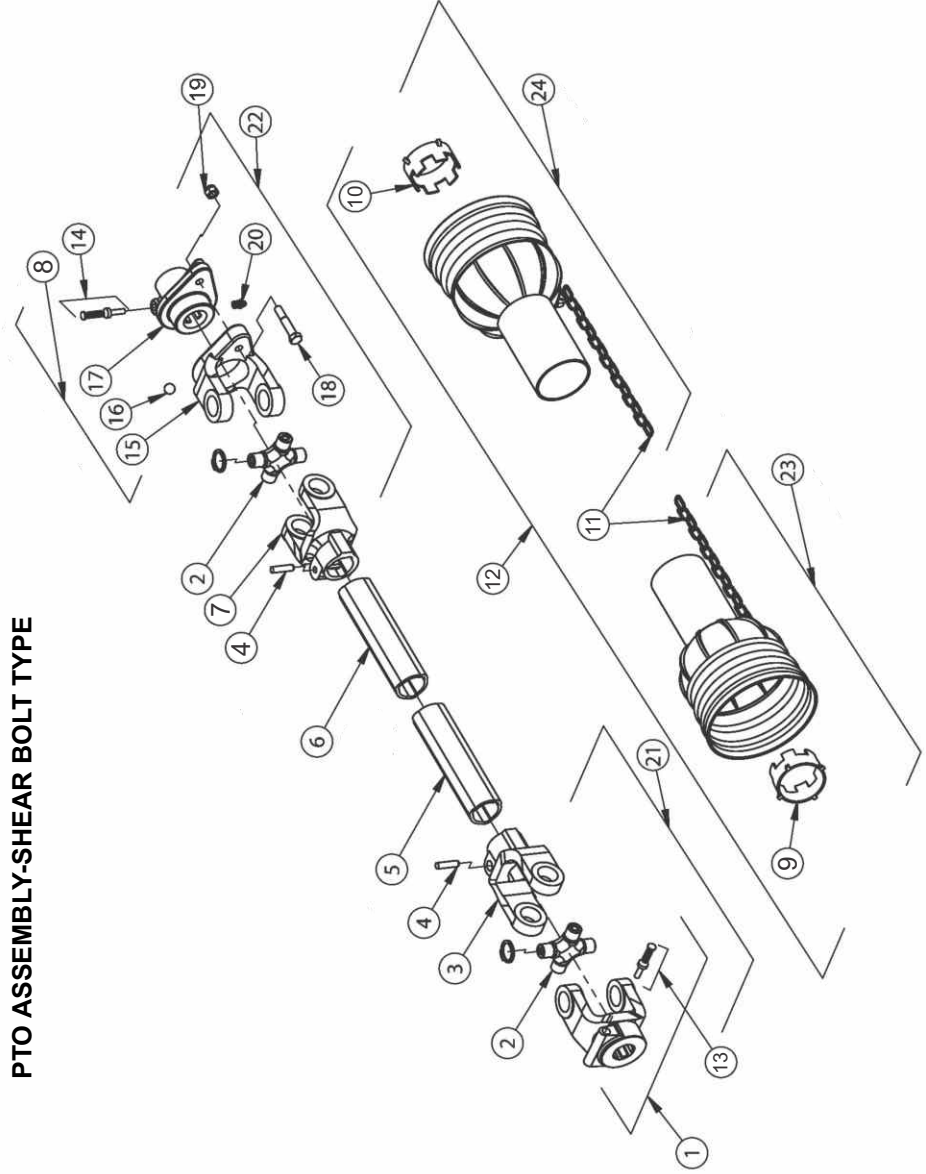
SUPER SEEDER SIDE DISC ASSEMBLY (78960014)			
SR. NO.	DESCRIPTION	PART NO.	QTY.
1	HEX HEAD BOLT M8 X 20 X 1.25MM	10260387	6
2	SIDE DISC HUB FRONT COVER	10150007	2
3	SPLIT PIN 4 X 65MM	10020055	1
4	SLOTTED NUT M30 X 1.5	10280012	1
5	BEARING 32307	10050008	2
6	SIDE DISC HUB	10090001	1
7	OIL SEAL 40 X 80 X 10	10010005	1
8	SIDE DISC HUB BACK COVER	10150008	1
9	NYLOCK NUT M10 X 1.5MM	10280002	4
10	SPRING WASHER 10MM	10270002	4
11	SIDE DISC HUB AXLE (COMPLETE SET)	10110001	1
12	PLAIN DISC 16"X5MM - 4 HOLE (SIDE DISC RT)	10240190	1
13	CSK BOLT M10 X 35 X 1.5MM	10260027	4
14	SIDE DISC MOUNTING PIPE ASSEMBLY	73450031	1
15	HEX HEAD BOLT M12 X 20 X 1.75MM	10260408	4
16	SIDE DISC MOUNTING BRACKET ASSY	73450030	1
17	PIN 19 X 90MM	10020026	1
18	LINCH PIN 10MM	10020022	1
19	HEX HEAD BOLT 12X70X1.75MM (8.8 GRADE)	10260407	6
20	SPRING WASHER 12MM	10270003	6
21	NYLOCK NUT M12 X 1.5	10280003	6
22	FRONT LINK BRACKET LOWER CLAMP (SHEETMETAL TYPE)	10120011	1

SUPER SEEDER SIDE DISC ASSEMBLY (78960014)



Rotary Tiller PTO Shaft						
Sr No.	Description	Part Code				
		540 RPM		1000 RPM		
		CUT	FULL	CUT	FULL	
		10310059	10310060	10310083	10310084	
1	PTO PUSH PIN YOKE WITH PIN - 38.05.10B (12X10)	10310073		10310075		
2	PTO CROSS JOURNAL SET-38.01		10310065			
3	PTO OUTER TUBE YOKE -38		10310097			
4	DOWEL PIN 10X80 MM		10020118			
5	INNER TUBE	10310039				
6	OUTER TUBE	10310040				
7	PTO INNER TUBE YOKE -38		10310096			
8	PTO COMPLETE SHEAR BOLT YOKE ASSEMBLY (6SPLINE)- 38SBT (12X10)		10310071			
9	GUARD RETAINING COLLAR FOR OUTER TUBE	10310011				
10	GUARD RETAINING COLLAR FOR INNER TUBE	10310012				
11	SAFETY CHAINS	10310013				
12	COMPLETE GUARD ASSEMBLY	10310014	10310047	10310014	10310047	10310047
13	PTO PUSH PIN SET-14X69 (Small)		10310077			
14	PTO PUSH PIN SET-14X91 (Big)		10310078			
15	YOKE FOR B02		10310030			
16	BALL 5/16"		10310017			
17	HUB B02		10310042			
18	HEX HEAD BOLT M10X65X1.5MM SAFETY BOLT	10260046				
19	NYLOCK NUT M10X1.5MM	10280002				
20	GREASE FITTING	10310019				
21	U-JOINT FOR OUTER TUBE	10310020		10310056		
22	U-JOINT FOR INNER TUBE		10310021			
23	HALF FEMALE GUARD ASSY.	10310048	10310051	10310048	10310051	10310051
24	HALF MALE GUARD ASSY.	10310049	10310050	10310049	10310050	10310050

PTO ASSEMBLY-SHEAR BOLT TYPE



DELIVERY CHECKLIST

Dealer Pre-Delivery (Please Tick)	Please Complete all Dealer information Below
1. Dealer Pre-Delivery Checklist - The customer or person responsible has been given the operator's manual. - The customer undertakes to read the complete operator's manual and understands all aspects of the 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 operator's manual.	Dealer Information Dealer's Name..... Address..... State..... Postcode..... Phone..... Fax..... Email..... Service Person..... I confirm that the pre-delivery service was performed on this machine. Signature..... Date..... Comments.....
Customer Delivery (Please Tick)	Please Complete all Customer Information Below
2. Customer Delivery Checklist - The customer or person responsible has been given the operator's manual. - The customer undertakes to read the complete operator's manual and understands all aspects of the 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 operator's manual.	Customer Information Customer's Name..... Address..... State..... Postcode..... Phone..... Fax..... Email..... Delivery Person..... I confirm that all of the delivery checks were explained and performed. Signature..... Delivery Date..... Comments.....

FIELDKING

WARRANTY CARD

Customer Copy

CUSTOMER NAME Mr./ Mrs :

ADDRESS :

MOBILE NO. :

Email :

NAME OF IMPLEMENT :

MODEL NO. :

YEAR OF Mfg. :

SERIAL NO. :

REGISTRATION NO. :

DATE OF PURCHASING :

NAME OF DEALER :

Customer's Signature

Dealer's Signature

 **Beri Udyog Pvt. Ltd.**

Corporate Office : Plot No. 235-236 & 238-240, Sec-3, HSIIDC,
Karnal- 132001 (Haryana), India 📞 +91-184-2221571/ 72/ 73 ☎ +91-92540-16570
✉ marketing@fieldking.com, exports@fieldking.com, 🌐 www.fieldking.com

WARRANTY CARD

Company Copy

CUSTOMER NAME Mr./ Mrs :

ADDRESS :

MOBILE NO. :

Email :

NAME OF IMPLEMENT :

MODEL NO. :

YEAR OF Mfg. :

SERIAL NO. :

REGISTRATION NO. :

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