Tillage | Haulage | Landscaping | Seeding & Plantation

Crop Protection | Harvest | Post Harvest

Solutions...

12-08-2019

FIELDKING USA

No Till Multi Crop Drill

FIELDKING USA, INC.

960 Holmdel Road Suite 2-02, Holmdel, NJ 07733, USA

exports@fieldking.com, www.fieldking.com

➤ 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 USA” 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 USA” 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 USA” dealer, we stock genuine “FIELDKING USA” 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 USA” equipments and are ready to help you.

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

YOUR AUTHORIZED

FIELDKING USA DEALER

BECAUSE “FIELDKING USA” 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 USA” No Till Multi Crop Drill. 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 No Till Multi Crop Drill 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 No Till Multi Crop Drill 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 USA” dealer, from where it was purchased, for service or replacement of defective parts that are covered by warranty. (The “FIELDKING USA” 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.

INDEX

1. TECHNICAL DATA

1.1 Introduction

No Till Multi Crop Drill

This handbook contains the use and maintenance instructions with a list of spare parts of No Till Multi Crop Drill.

Fieldking USA No Till Multi Crop Drill is high performance drill designed to sow seed of wide variety and size. Due to its precise metering system this is achieved accurately and economically.

Regular and satisfactory operations together with economic and long lasting use of the implement depends upon the compliance with instructions given in this book.

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

1.2 Warranty

When the implement is delivered, check that it has not been subjected to damage during transport 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 8 days from the receipt of the goods.

The purchaser may only make the 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 warrantee shall in any case become void:

1. When the implement has been used beyond the specified power limit like (Tractor Horse Power)
2. 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.
3. When the user has failed to comply with the instructions in this handbook.
4. No warranty will be given if the service and greasing is not done on time.

1.4. Usage And Instructions :

1. Check seed boxes, there should not be any metal piece or any hard material capable of damaging metering system.

2. Place the drill on leveled surface to adjust the depth of sowing as desired. By adjusting the height of side packer roller and we can get the desired depth of sowing. For the vertical moment of balancing packer roller a special pin arrangement is provided. By removing pin we can adjust the height of packer roller. As we lower the wheels depth decreases and as we lift the wheel the sowing depth increases.

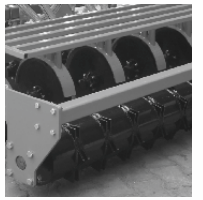


Fig.-1

3. Before sowing the front and rear disc should be in same horizontal plane, this leveling of disc can be adjusting the Top Link of tractor.
4. **Seed Metering Method :** For desired quantity that is to be sown can be adjusted with the help of grain index plate that is fixed on the seed box. On the grain index plate there is equal distance holes. There is lever that is move on the above said holes of index plate. A we step one hole to right side 22Lbs.- Acre can be decreased as we move lever to the left side. As we move 1 to 2 No. Seed quantity can be increased by 22Lbs. The above said quantity is for wheat, corn.

1.5. Maintenance

No Till Multi Crop Drill is relatively simple machine. The proper lubrication of the machine wherever is needed is highly important if satisfactory performance and long life are to be ensured1. Oil and grease the all lubricating parts daily before sowing (All wheels, shaft and grease cup etc.)

2. There is a reel on the seed shaft that is beneath the seed box, grease this reel also, which is very important for the smooth working of seeding mechanism.

Fig.-5

3. After sowing but before storing the seed take it to any service station so that the drill can be cleaned / washed through with the high pressure water spray. But remember after the spray of water, apply diesel on both boxes with the help of brush or peace of cloth to prevent the box from rusting. It is important that the No Till Multi Crop Drill should be parked in covered area and away from sunlight.
4. After regular intervals clean and paint both boxes.
5. To adjust row to row distance of tynes loosen the two ‘‘U’’ clamps of the tyne and set the distance as desired and than tighten the clamps fully (Fig-6).
6. Before re-using machine in next sowing season, all moving & rotating parts should work freely/properly.

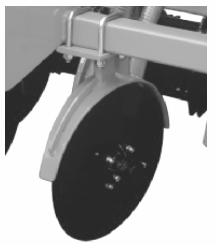


Fig.-6

7. To ensure the proper working oil all the moving/rotating parts like seed shaft, front & side wheels and then rotate the front wheel with hand. Check that whether the parts are working properly or not. In case the parts are not working properly oil the moving parts especially in the router's hole in the fluted rollers (seed shaft). And after some time rotates the front wheel with hand again to check that is it moving/rotating freely (Fig-7).

Fig.-7

1.6 Re-Assembling of different parts of machine to right position for its proper working :

1. **Central Wheel :** Central wheel is fixed inside the frame : take it out by loosing the bolt. It should be fixed in the center of machine at front. Fix it as shown in pictures.

Fig -8 (a)

Fig -8 (b)

Fig -8 (c)

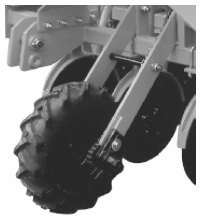
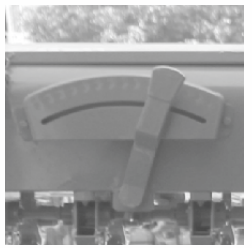


Fig -8 (d)

2. **Seed Handle :** The seed handle is bolted under hopper. Loose the bolt and take the handle out. Now as shown in figures fix the handle in shown position. Bolt the handle in same hole but in right position. Do not forget to check nut it (Use double nut it).



3. **Rear Platform :** Fit the plate-form in horizontal position as shown in figures and bolt it with frame.

2. Major Components and their Description

2.1 **Frame:-** 2.4"×2.4" sq. welded together to provide the desired strength and rigidity. This is true in a drill of 9 discs but in 11-discs drill, the length of frame is about 5'9".

2.2 **Disc Openers:-**

The No Till Multi Crop Drill has 9-13 inverted disc's openers depending on the model or brand. These can be spaced as needed in different crops. These disc type openers when attached to a disc open a narrow slit 1.2"-2" wide. The cutting portion of the disc's openers is made by using 0.1" thick disc. The disc's opener is welded to the mild flat steel shank (straight leg standard mounted with disc's slit openers). The discs can be of "welded on" or "bolted on" or even "knock down" type. The disadvantage of "welded on" disc is that they require machine shop for replacement, whereas, a farmers himself can replace the other two types of disc.

2.3. Seed Boxes

Seed boxes, made of mild steel sheet (0.07" thick), are mounted side by side on the frame, in front and seed box in the rear. Box dimensions can vary but these generally depend upon the effective width of the machine and will increase with the increase in the number of the disc's openers. For example in case of 11-disc, the length of seed boxes will be around 5'10". Inner view of (a) Seed.

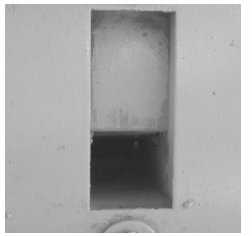


Fig-11(a) Seed Hole

2.4. Seed Metering Device

Seed metering device has the following components

Calibration of seed-drill (in Laboratory)

1. Measure the diameter (D) of the drive wheel and calculate its circumference i.e. D in meters.

2. Measure the effective width of coverage in meters of the drilling machine by multiplying number of furrows with spacing.

3. Then distance/length (L) to cover one hectare is calculated by dividing 10000 m2 (area of one hectare) by effective coverage

3.1. The distance (l) i.e. l/100th of a hectare will be equal to L/100 in meters.

3.2. To cover distance l, the drive wheel has to take 'n' turns i.e. = l/D

3.3. Allowing 10% slippage, the distance can be covered in 'N' turns i.e. = (n–0.1 n)

3.4. No Till Multi Crop Drill Raise the seed drill so that drive wheel becomes free to be turned. Put a chalk mark on the rim of the wheel. Fill the seed box, set the seed rate adjusting lever and rotate the wheel for 'N' turns.

3.5. Weigh the quantity of seed dropped from each opener and record on the data sheet to know the variation in different rows, if any.

Example, say

* Circumference of the drive wheel = 1'4"
* Width of machine = 8'2"
* As we know area of one hectare=17639 (sq. ft.)
* Then distance/length (L) to cover one hectare will be =(10,000/2490)=13176'
* The distance (l) i.e. 1/100 of hectare will be = 131'
* To cover distance (l), the drive wheel has to take turns (n) = 40.06/0.4=100.15
* Allowing 10% slippage, the distance (l) can be covered in 'N' turns (n–0.1n) = 90.135 (approx.).

  Put seed in the boxes. Set the rate control adjustment lever as prescribed by the manufacturer.

2.5. Power Transmission Unit

Power transmission unit (Fig.14) has the following main components:

1.Drive wheel
2.Shaft
3.Idler
4.Sprocket

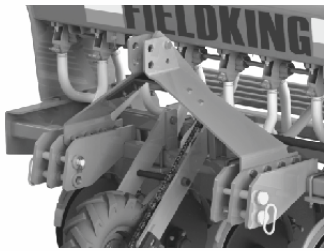


Fig. 14. Power transmission unit and its main components.

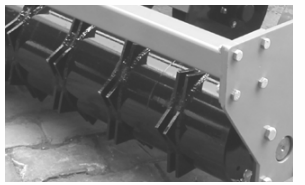
Roller chain

The power required to operate the seed metering devices is provided by a floating type lugged drive wheel 1'4" in diameter and 4" in width through chain and sprockets. However, size of the drive wheel may vary in different models. Fourteen lugs each of 1.2" height at an angle of 900 are provided on the ground wheel to avoid slippage. Wheels are of iron closed type or with rubber on them for better traction. This ground wheel or drive wheel is attached to the frame in front. Traction can be adjusted through a groove and spring as desired. Attachment of drive wheel in the front side of the frame sometimes creates problem in the free movement of wheel due to soil or stubble blockage or due to its location being very near to the hook of the tractor. A motorcycle roller chain of 0.5" pitch with 14 and 37 number of teeth on the mild steel sprocket is provided for power transmission from the drive wheel to seed metering devices. Power from ground wheel is transmitted to a shaft (1:1) (Fig. 15) mounted on front frame. From this shaft power is transmitted to seed metering shafts (2.5:1) through the chain sprocket arrangement. However, size of roller chain and sprocket can vary in different models as per requirements. An idler has been provided to tighten or loosen the chain for its smooth running.

Fig-15 Drive Wheel attached on the Front Side

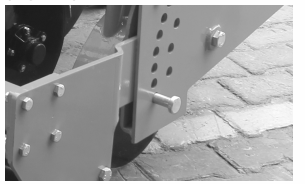
2.6. Depth-Control Packer Roller

The size of these wheels may vary in different models. With the help of depth adjusting pin (Fig.16b), these wheels can be raised or lowered to increase or decrease the depth of seeding, respectively. The depth of seeding in case of wheat varies from 1.2"–2". However it can be adjusted as per requirement.



(Fig. 16a) Depth-control packer roller

If there is a large amount of loose straw in the field, these depth wheels can get jammed with the straw. If this happens, the depth-control wheels can be removed and depth control maintained with the tractors' hydraulics, to reduce straw jamming.



(Fig. 16b) Depth-adjusting pin

2.7. Hitch Points

The drill has three standard hitch points; two lower and one upper (Fig. 17). The machine is attached to tractor through these three hitch points with the help of link pins. The top link hitch point also helps in leveling the machines

Fig. 17. Hitch points.

2.8 Precautions For Use

1. Sowing of wheat with No Till Multi Crop Drill is best accomplished when soils have 3-4% more moisture than under conventional method. Germination of wheat and corn crops is adversely affected if the soil is too dry.

2. Conversely, No Till Multi Crop Drill machine does not work well in fields where moisture levels are too high (wheel slippage) and under such situations care must be taken to prevent blockage of seed tubes.

3. Heat stress at grain filling is less in late winter season when temperature begins to rise. The overall growth period of crop is more in early sowing.

4. Longer duration varieties such as PBW 343, HD 2687 having better vigor at early growth and profuse cultivating cover the soil surface and are more competitive with weeds.

5. The quantity of seeds are use in hopper by standard.

6. When weed pressure is not a factor, tilling of soil is not needed and reduced tillage (1–2 ploughings) and cross-sowing methods do not provide any additional advantage over seeding. Rather these methods may reduce germination and yield and induce germination of P. minor besides increasing the cost of cultivation.

7. It has been observed that farmer can skip the use of herbicides when zero tillage and alternate herbicides are carefully integrated for 3–4 years.

8. Irrigation immediately after sowing of wheat is not recommended. If needed, post-sowing.

9. Operator only sit on stand and not give the pressure of hands on machine.

3. TIPS FOR MANUFACTURERS, OPERATION, MAINTENANCE AND REPAIR

3.1 Repair

1. Machine should be of good quality and manufactured according to appropriate design specifications/drawing.

2. Frame shanks and disc's openers should be strong and made of proper material.

3. Provision should be made for replaceable parts on wear and tear.

4. There should be stress-free and proper alignment of components without any inbuilt stress assembly.

5. Testing before marketing should be ensured at manufacturer level.

6. Spare parts, critical components, nuts and bolts or clamps should be of high strength and standard quality.

7. Minimum tool kit should be provided.

8. Packing, handling and transportation should be proper.

9. Pooled service should be provided free of cost for replacement of parts or complete machine, if there is any defect or breakage during transportation.

10. Manufacturer should incorporate required modification based on seed back from time to time.

3.2 Planting Operations

Following points must be kept in mind before actual planting operation:

1. Seed should be of good quality and free from dirt and dust.

2. All the nuts and bolts, rollers should be thoroughly checked, defective parts should be replaced and nuts/bolts properly tightened.

3. Seed boxes, fluted rollers, seed metering shaft and controlling bottom plate (having triangular holes) should be thoroughly cleaned.

4. Fluted roller shaft should move freely, otherwise the rollers may be broken.

5. Seed cups should be thoroughly cleaned and obstruction if any, must be removed.

6. Ensure that plastic pipes do not have excessive bend. This will block the free flow of seed in tubes.

   Chain sprocket of metering mechanism should be properly aligned. Appropriate tension in the chain may be kept for free movements of seed metering shafts. If there is any noise during operation, stop the machine and check it.

* Disc assembly should be fitted on the frame according to the requirement (row to row distance) of the crop. There should be no crossing or twisting of disc assembly.

* Fill the seed boxes and calibrates the machine. Ensure that seed drill is set at desired seed rates. This will ensure proper metering of seed and result in excellent germination, good crop stand and higher yield.

3.3 Maintenance and Repair

A well maintained and properly adjusted seeding machine gives trouble free service for a long time. It also helps in timely completion of operations The following important points may be kept in mind for the maintenance and repair of various components of the seeding machines.

3.3.1. Seed Boxes

The boxes should be thoroughly cleaned as these may rust very fast due to environmental moisture. This will damage the boxes and machine will not be useful for the next crop sowing season. The boxes must be cleaned as under:

1. Raise the machine above ground so that the drive wheels move freely

2. Remove seed from boxes.

3. Open the flow gates of seed cups.

4. Rotate the drive wheel till the seed from different seed cups are emptied. Clean the boxes and cups with the help of a cloth or brush.

5. Wash the machine rollers/seed boxes with diesel to avoid rusting.

6. Apply lubricating oil at appropriate places (bushes and sides of metering rollers).

3.3.2. Drive/Power Transmission System

For maintenance of drive system/power transmission system, keep following points in mind:-

1. Drive wheel should move freely. If it is jammed, then apply grease or put oil in its bushes. If axle of wheel is bent or worn out, replace it.

2. Drive wheel should be round, if it is bent then repair it.
3. Sprockets of drive wheel and seed shafts (seed boxes) should be properly aligned.
4. All sprockets should be properly tightened on their shafts so that these may not move freely on these shafts.
5. Seed shafts should move freely. If these are jammed due to rusting, then clean and apply lubricating oil/grease in the bushes.
6. Bent drive shafts should be repaired or replaced.
7. Seed boxes should be thoroughly cleaned for free movement of seed shafts.
8. Chain and idler sprocket should be properly tightened so that proper chain tension is maintained and mechanism moves freely.
9. Worn out parts, loose, broken and worn out bushes should be replaced.

3.3.3 Seed Metering Mechanism

Usually fluted roller type seed metering mechanism is used in these seeding machine. It should be repaired and maintained as under.

1. Side plate of seed metering shaft sprocket should be removed by loosening nuts/ bolts.
2. Remove the nuts/bolts of all the seed cups.
3. Remove pins of all the fluted rollers.
4. Remove metering rollers from the seed cups and replace broken rollers and notched plates.
5. Take out the shaft on one side. All rollers will come out of seed cups.
6. During refitting of rollers, it must be ensured that all the rollers are at equal distance in the seed cups. If distance is different, then put washers to achieve equal distance.
7. Put the rollers on the shaft and put again on the seed box.
8. Complete system should move freely and rotate the sprocket till appropriate seed rate is achieved from all the rollers.

3.3.4 Seed Tubes

These are mostly plastic tubes connected to seed cups and their lower ends are connected to seed boots.

1. Tubes should be connected to seed cups with the help of clamps so that these may not come out during field operation.
2. Tubes should be protected from bending and breakage.
3. Old/bent tubes should be replaced.
4. Excessive bend in the tubes should be avoided otherwise the bend will cause obstruction in free flow of seed and results in non-uniform application of seed in the field.

3.3.5. General

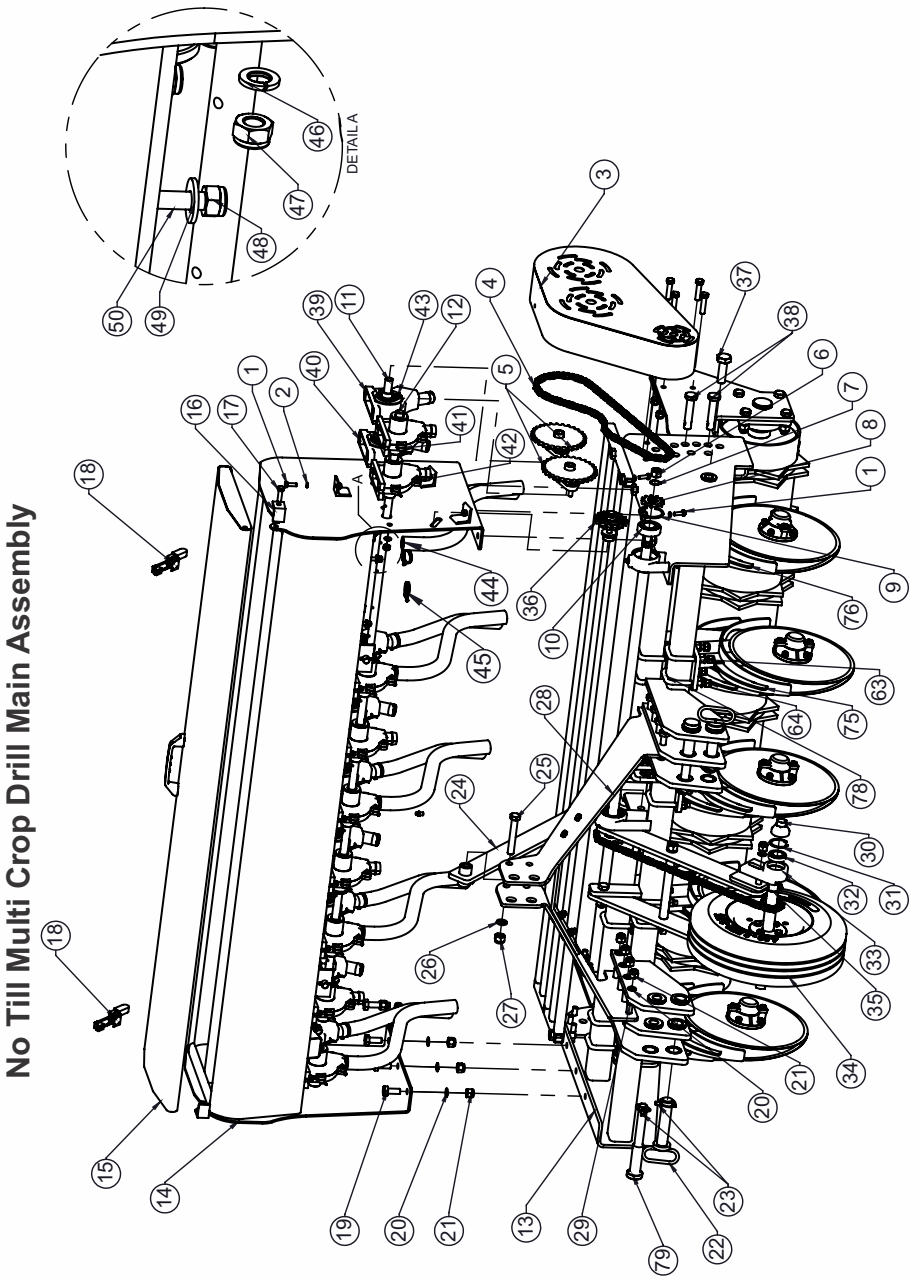
1. All the components of the machine should be painted
2. Machine should be protected from rain, dirt and dust etc. during its storage.
3. Moving parts should be greased/oiled at regular intervals so that the machine gives a trouble free service for a long time.
4. Users training will lead to improvement in the performance of the machines.

4. TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Seed not placed at desired depth	Adjustment of depth control wheel In not proper	Properly adjust the depth of furrow openers with the help of depth control wheel
Seed is not dropping from disc's openers	1.The seed box is empty. 2.The disc's opener or seed delivery Tube is blocked by soil/mud or seed delivery pipe bent 3.Seed metering wheel gem 4.The drive wheel does not Touch the ground 5.Broken chain/sprocket	Refill the seed box Clean mud out of the opener and/or Delivery tubes Clean the seed from orange box Lower down the hitch to get the drive wheel in contact with the land. Change the broken part
Unequal depth of Seeding among different rows/disc's openers	Improper three point linkage balancing	Put the machine on a fairly level ground and then level all the furrow openers with the help of top link/right lower link of the tractor.

CALIBRATION CHART

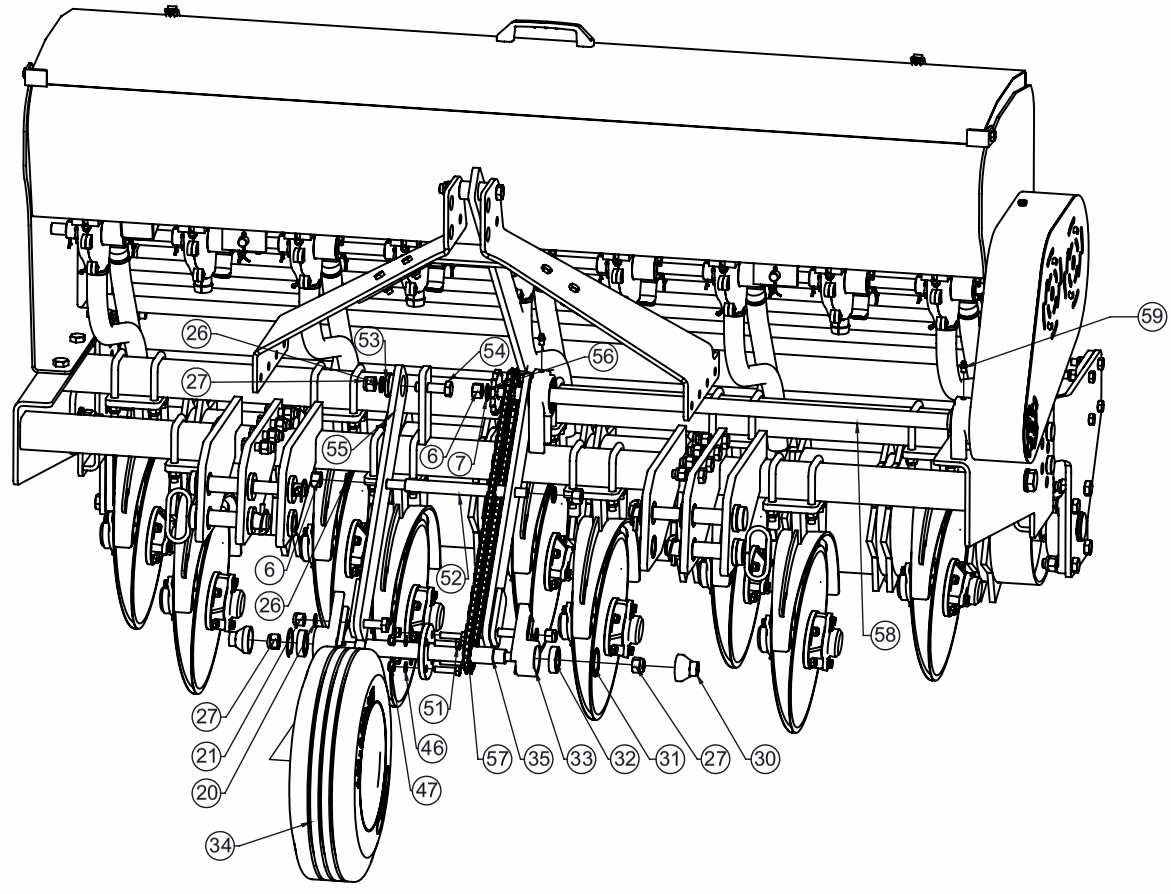
SPREADING CHART FOR WHEAT'S SEED CALIBRATION (LBS. / ACRE, LBS. / HECTARE)												
SEEDS RATE	1	2	3	4	5	6	7	8	9	10	11	12
SEEDS QTY. Lbs. / Acre	17	33	59	75	90	105	123	139	154	169	185	202
SEEDS QTY. Lbs. / Hectare	42	81	146	185	222	260	304	343	380	417	457	497
QTY. KG/ACRE (WHEEL)												
ACRE SIZE= 220 (L) X 198 (W) FEET												
MACHINE SPREADING WIDTH / 6 FEET												
WHEEL SIZE 27"=1 ROUND 8 FEET AREA COVER												
NOTE-TRACTOR SPEED KM/H N/A												



No Till Multi Crop Drill Main Assembly

SR. NO.	DESCRIPTION	ITEM CODE			QTY.		
		9-TYNE	11-TYNE	13-TYNE	9-TYNE	11-TYNE	13-TYNE
1	HEX. HEAD BOLT M8X1.25X25	10260090			3		
2	SPRING WASHER 8MM	10270001			3		
3	CHAIN COVER ASSEMBLY (DISC SEED DRILL)	78550063			1		
4	CHAIN 10B (45 LINKS)	10140052			1		
5	UCFL BEARING 205 COMPLETE ASSEMBLY	10050353			2		
6	PLAIN HEX NUT M16X2 (5.6 GRADE) AUTO BLACK	10280121			4		
7	EXTERNAL CIRCLIP 22	10390063			2		
8	SPROCKET 11TX 6 SPLINE (DERIVE SHAFT)	10170071			1		
9	INTERNAL CIRCLIP 65	10390112			2		
10	BEARING 6305 2Z	10050091			2		
11	ROD FOR SEED GUN MOUNTING (DISC SEED DRILL)	10160087	10160089	10160090	1		
12	SEED PISTOL MOUNTING ROD SUB ASSEMBLY (SEED-CUM-SEED)	10160099	10160100	10160101	1		
13	MAIN FRAME ASSEMBLY DISC SEED DRILL	78550009	78550010	78550011	1		
14	HOOPER ASSEMBLY COMPLETE (SEED-COM-SEED)	78390036	78390037	78390038	1		
15	HOOPER COVER ASSEMBLY DISC SEED DRILL	78390015	78390016	78390017	1		
16	STOPPER FOR HOPPER COVER ASSEMBLY	78390029			2		
17	HEX. HEAD BOLT M10X1.5X35	10260353			2		
18	TOGGLE CLAMP (HC22) H.CAPACITY 210DAN(FOR SEED DRILL)	10220078			2		
19	HEX. HEAD BOLT M14X2X35	10260372			6		
20	SPRING WASHER 14MM	10270004			20		
21	HEX. NYLOCK NUT M14X2	10280090			20		
22	TILLER PIN 28X145MM WITH HANDLE	10020047			2		
23	LINCH PIN 10MM	10020022			6		
24	3-POINT LINKAGE SUPPORT FLAT ASSEMBLY	78550062			1		
25	HEX HEAD BOLT 16X105X2MM	10260134			1		
26	SPRING WASHER 16MM	10270005			13		
27	HEX. NYLOCK NUT M16X2	10280005			13		
28	3-PONT LINKAGE ASSEMBLY (DISC SEED DRILL)	78550053			1		
29	HEX. HEAD BOLT M14X2X50	10260386			8		
30	BEARING HOUSING CAP (DRIVE WHEEL)	10150102			2		
31	INTERNAL CIRCLIP 47	10390051			2		
32	BEARING 6005	10050054			2		
33	BEARING HOUSING WITH CAP (DERIVE WHEEEL) SEED DRILL	10090079			2		
34	TYRE 4.00-8 TYRE+TUBE+RIM (POWER TILLER)	11030049			1		
35	TYRE AXLE SHAFT SUB-ASSY. (SEED DRILL)	78550066			1		
36	CHAIN TIGHTNER ASSEMBLY WITH SPROCKET 16T (DISC SEED DRILL)	10170073			1		
37	HEX HEAD BOLT M20X65X2.5P	10260316			2		
38	PIN 19X90MM	10020026			4		
39	COMPLETE PISTOL ASSEMBLY (FOR SEED) FRONT FACE	10670013			5	6	7
40	COMPLETE PISTOL ASSEMBLY (FOR SEED) REAR FACE	10670014			4	5	6

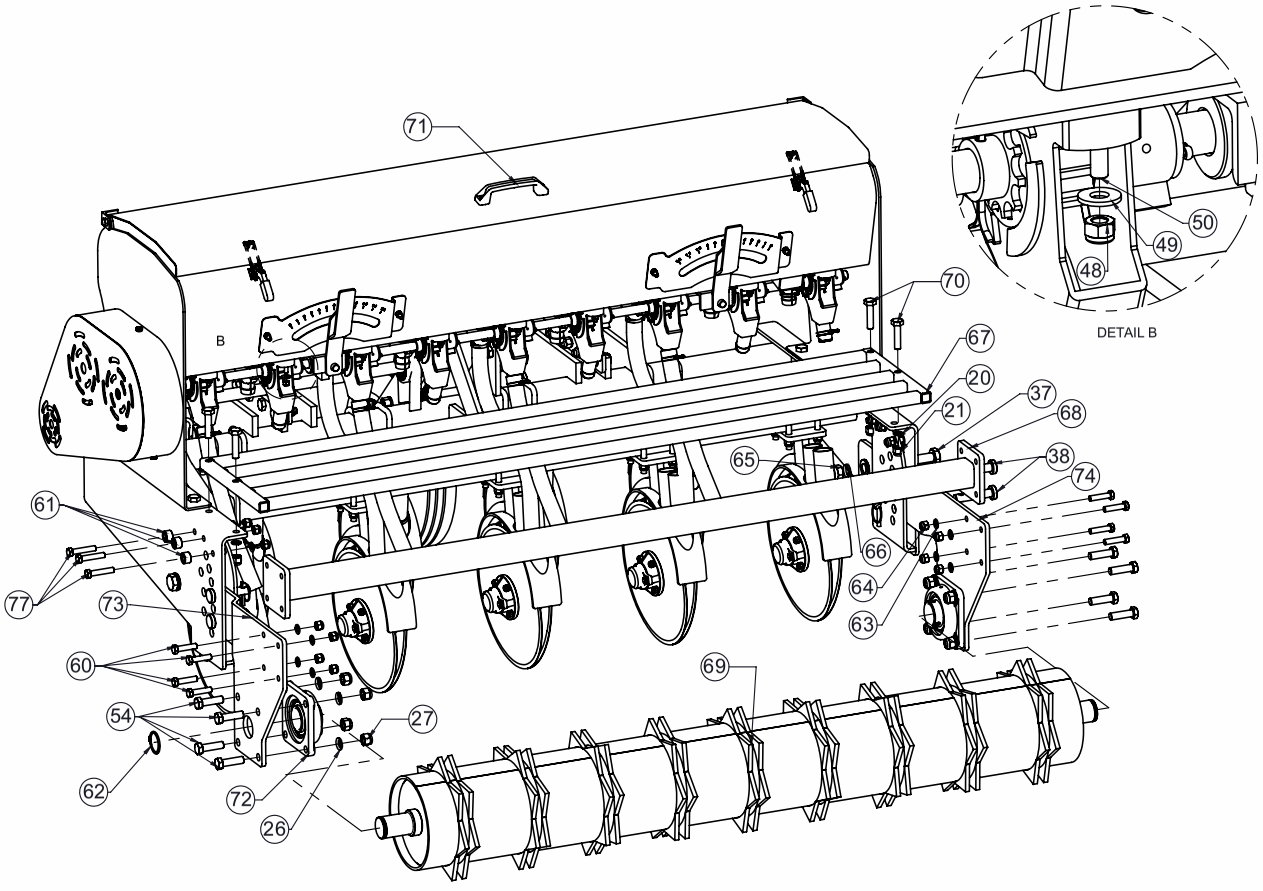
No Till Multi Crop Drill Main Assembly



No Till Multi Crop Drill Main Assembly

SR. NO.	DESCRIPTION	ITEM CODE			QTY.		
		9-TYNE	11-TYNE	13-TYNE	9-TYNE	11-TYNE	13-TYNE
41	COMPLETE PISTOL ASSEMBLY (FOR SEED) REAR FACE	10670014			5	6	7
42	COMPLETE PISTOL ASSEMBLY (FOR SEED) FRONT FACE	10670013			4	5	6
43	SPLIT PIN 1/8X2.5 INCH	10020097				38	
44	PVC FLEXIBLE WATER SUCTION HOSE PIPE 36 O/Dx31I/D (SEED DRILL)	10200056			8 MTR	9 MTR	10 MTR
45	HOSE PIPE CLAMP 1 INCH	10301146			18	22	26
46	SPRING WASHER 10MM	10270002			8		
47	HEX. NYLOCK NUT M10X1.5	10280002			8		
48	HEX. NYLOCK NUT M8X1.25	10280027			36	44	52
49	PLAIN WASHER 8MM	10270008			72	88	104
50	HEX HEAD BOLT 8X40X1.25MM	10260373			36	44	52
51	HEX. HEAD BOLT M10X1.5X40	10260005			4		
52	ROD FOR DRIVE WHEEL	10160086			1		
53	BUSH FOR DRIVE WHEEL FLAT ASSEMBLY	78550021			1		
54	HEX HEAD BOLT M16X55X2MM (GRADE 8.8)	10260454			10		
55	DRIVE WHEEL HOLDING FLAT ASSEMBLY	78550061			2		
56	SPROCKET 15T X 6 SPLINE (SEED DRILL)	10170069			1		
57	CHAIN 10B (40 LINKS)	10140051			1		
58	MAIN SPROCKET SHAFT (SEED DRILL)	10290155	10290163	10290164	1		
59	GREASE NIPPLE M10X15X1.5MM (P)	10300005			2		
60	HEX HEAD BOLT M12X50X1.75MM	10260363			8		

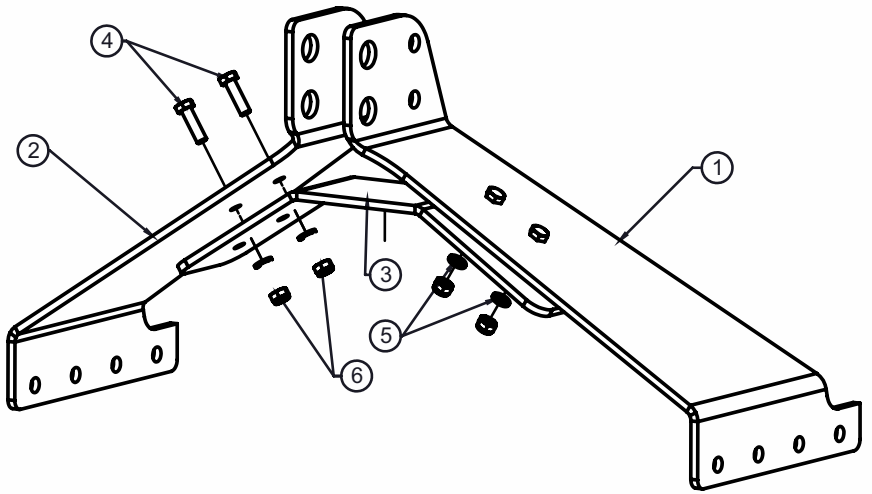
No Till Multi Crop Drill Main Assembly



No Till Multi Crop Drill Main Assembly

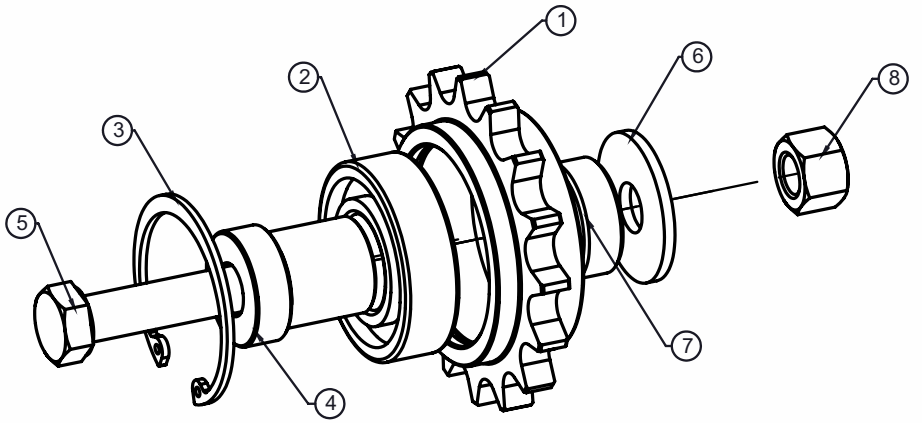
SR. NO.	DESCRIPTION	ITEM CODE			QTY.		
		9-TYNE	11-TYNE	13-TYNE	9-TYNE	11-TYNE	13-TYNE
61	BUSH FOR PACKER ROLLER MTG. PLATE	10070168			6		
62	EXTERNAL CIRCLIP 47	10390053			2		
63	SPRING WASHER 12MM	10270003			50	58	66
64	HEX. NYLOCK NUT M12X1.75	10280025			50	58	66
65	NYLOCK NUT M20X2.5MM	10280021			2		
66	SPRING WASHER 20MM	10270016			2		
67	OPERATOR STAND ASSEMBLY DISC SEED DRILL	78550027	78550028	78550029	1		
68	PACKER ROLLER SUPPORT PIPE ASSEMBLY DISC SEED DRILL	78550034	78550035	78550036	1		
69	PACKER ROLLER ASSEMBLY DISC SEED DRILL	78550038	78550039	78550040	1		
70	HEX HEAD BOLT M14X60X2MM (8.8 GRADE)	10260399			6		
71	PLASTIC HANDLE (SEED DRILL COVER)	78840015			1		
72	BEARING UCF 210 FLD	50080564			2		
73	PACKER ROLLER SIDE MOUNTING PLATE SUB-ASSEMBLY (R.H.S)	78550051			1		
74	PACKER ROLLER SIDE MOUNTING PLATE SUB-ASSEMBLY (L.H.S)	78550052			1		
75	FRONT DISC ASSEMBLY (DISC SEED DRILL)	78550086			4	5	6
76	REAR DISC ASSEMBLY (DISC SEED DRILL)	78550083			5	6	7
77	HEX HEAD BOLT 12X60X1.75MM	10260356			6		
78	U-CLAMP 100X62X12MM	10220028			18	22	26
79	PIN DIA 42X28X22X200MM (L)	78370005			2		

3-PONT LINKAGE ASSEMBLY



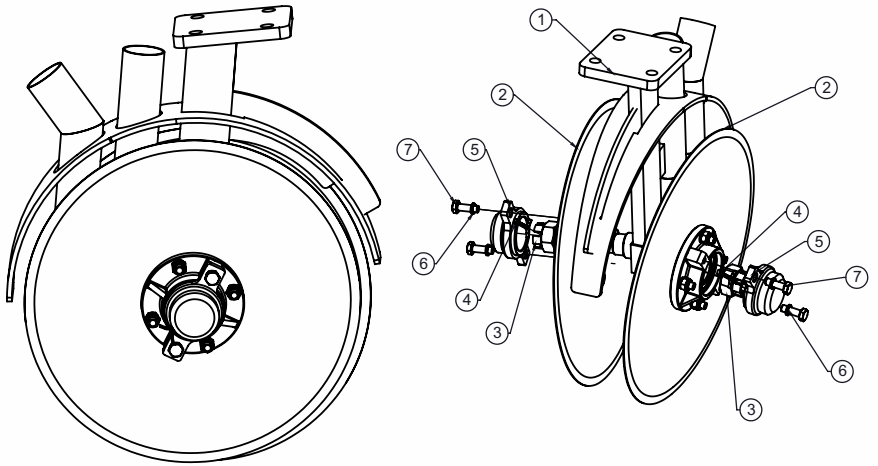
3-PONT LINKAGE ASSEMBLY (DISC SEED DRILL) (78550053)			
SR NO.	DESCRIPTION	ITEM CODE	QTY.
1	LEVER PLATE DISC SEED DRILL (RHS)	78550054	1
2	LEVER PLATE DISC SEED DRILL (LHS)	78550055	1
3	MID-SUPPORT PLATE FOR 3-POINT LINKAGE	78550056	1
4	HEX. HEAD BOLT M10X1.5X35	10260353	4
5	SPRING WASHER 10MM	10270002	4
6	HEX. NYLOCK NUT M10X1.5	10280002	4

CHAIN TIGHTENER ASSEMBLY WITH SPROCKET 16T



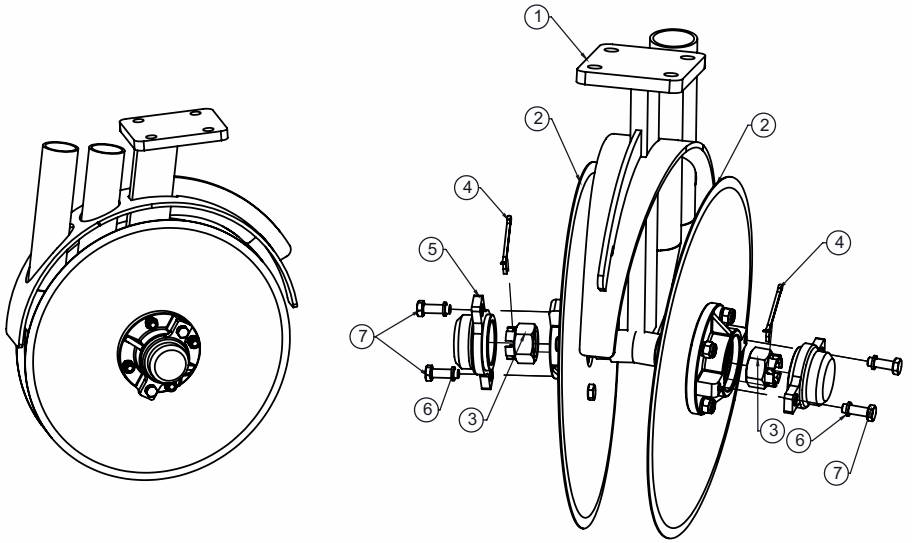
CHAIN TIGHTNER ASSEMBLY WITH SPROCKET 16T (DISC SEED DRILL) (10170073)			
SR. NO.	DESCRIPTION	ITEM CODE	QTY.
1	SPROCKET 16-T FOR CHAIN ADJUSTER (DISC SEED DRILL)	10170072	1
2	BEARING 6205-Z	10050158	1
3	INTERNAL CIRCLIP-55 MM	10390153	1
4	BUSH-2 FOR CHAIN ADJUSTER ASSEMBLY (DISC SEED DRILL)	10070166	1
5	HEX HEAD BOLT 12X70X1.75MM (8.8 GRADE) - HALF THREAD	10260407	1
6	PLAIN WASHER 12MM	10270010	2
7	BUSH FOR CHAIN ADJUSTER ASSEMBLY (DISC SEED DRILL)	10070165	1
8	NUT M12X1.75P	10280315	1

FRONT DISC ASSEMBLY



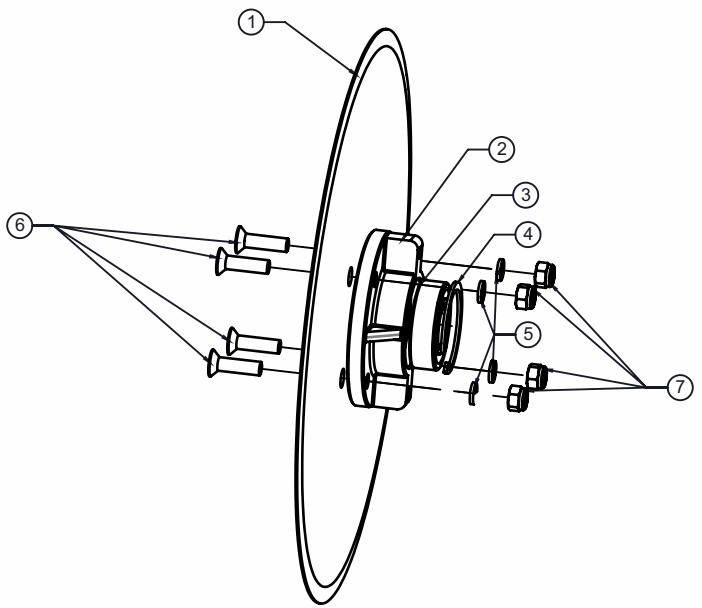
FRONT DISC ASSEMBLY (DISC SEED DRILL) (78550086)			
SR. NO.	**DESCRIPTION**	**ITEM CODE**	**QTY.**
1	TYNE ASSEMBLY (FRONT) (DISC SEED DRILL)	78550076	1
2	DISC SUB ASSEMBLY (DISC SEED DRILL)	78550075	2
3	CASTLE NUT M22X1.5M	10280123	2
4	SPLIT PIN 1/8X2.5 INCH	10020097	2
5	REAR DISC HUB CAP (DISC SEED DRILL)	1240002	2
6	SPRING WASHER 8MM	10270001	4
7	HEX. HEAD BOLT M8X1.25X25	10260090	4

REAR DISC ASSEMBLY



REAR DISC ASSEMBLY (DISC SEED DRILL) (78550083)			
SR. NO.	**DESCRIPTION**	**ITEM CODE**	**QTY.**
1	TYNE ASSEMBLY (REAR) (DISC SEED DRILL)	78550077	1
2	DISC SUB ASSEMBLY (DISC SEED DRILL)	78550075	2
3	CASTLE NUT M22X1.5M	10280123	2
4	SPLIT PIN 1/8X2.5 INCH	10020097	2
5	REAR DISC HUB CAP (DISC SEED DRILL)	1240002	2
6	SPRING WASHER 8MM	10270001	4
7	HEX. HEAD BOLT M8X1.25X25	10260090	4

DISC SUB ASSEMBLY



DISC SUB ASSEMBLY (DISC SEED DRILL) (78550075)			
SR.NO.	**DESCRIPTION**	**ITEM CODE**	**QTY.**
1	FLAT DISC 14" X 3 MM (DISC SEED DRILL)	10240117	1
2	DISC SEED DRILL TYNE HUB	01240004	1
3	BEARING 6205-Z	10050158	1
4	INTERNAL CIRCLIP-55 MM	10390153	1
5	CSK BOLT M8X1.25X30	10261036	4
6	SPRING WASHER 8MM	10270001	4
7	HEX. NYLOCK NUT M8X1.25	10280027	4

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 forth 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.

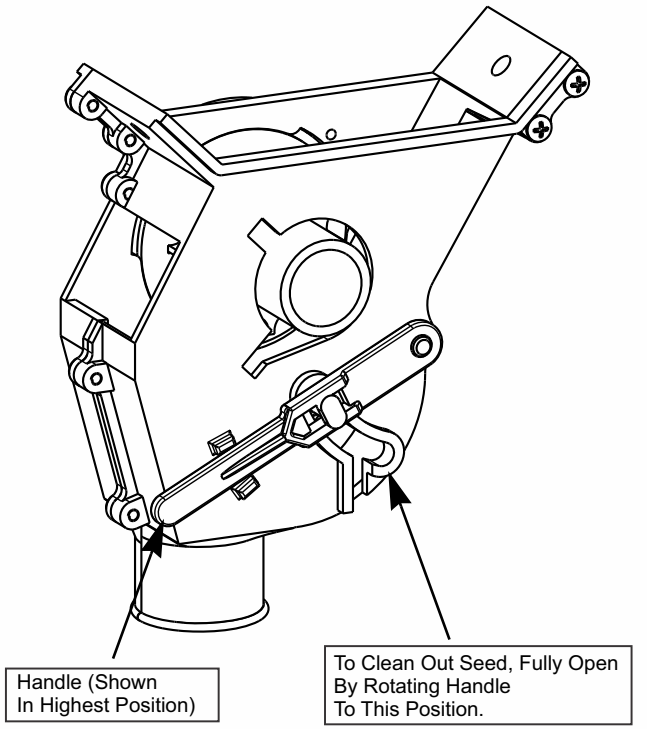


Fig-20

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.

DELIVERY CHECKLIST

Dealer Pre-Delivery (Please Tick)

1. Dealer Pre-Delivery Checklist

1. The customer or person responsible has been given the operator's manual.
2. The customer undertakes to read the complete operator's manual and understands all aspects of the manual before operation of the machine.
3. All safety, operational and maintenance information have been explained and demonstrated.
4. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out.
5. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operator's manual.

Please Complete all Dealer information Below

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)

2. Customer Delivery Checklist

1. The customer or person responsible has been given the operator's manual.
2. The customer undertakes to read the complete operator's manual and understands all aspects of the manual before operation of the machine.
3. All safety, operational and maintenance information have been explained and demonstrated.
4. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out.
5. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operator's manual.

Please Complete all Customer Information Below

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
USA

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

FIELDKING USA, INC.

960 Holmdel Road Suite 2-02, Holmdel, NJ 07733, USA

exports@fieldking.com, www.fieldking.com

FIELDKING
USA

WARRANTY CARD

Company 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

FIELDKING USA, INC.

960 Holmdel Road Suite 2-02, Holmdel, NJ 07733, USA

exports@fieldking.com, www.fieldking.com

FIELDKING
USA

WARRANTY CARD

Dealer 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

FIELDKING USA, INC.

960 Holmdel Road Suite 2-02, Holmdel, NJ 07733, USA

exports@fieldking.com, www.fieldking.com