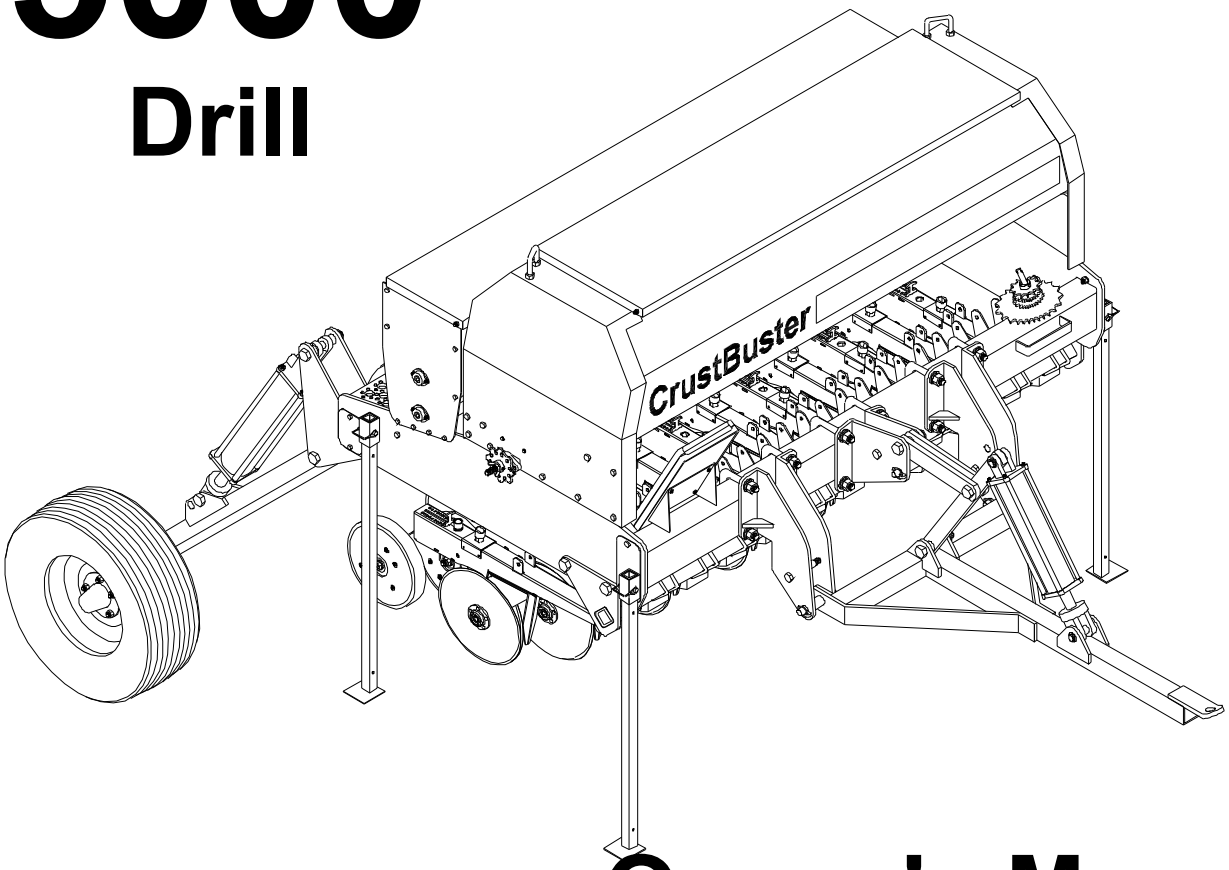
CrustBuster
SPEED KING INC.

P.O. Box 526 - Spearville, Kansas 67876 - (620) 227-7106
crustbuster.com

5000
Drill



Owner's Manual

OPERATION • MAINTENANCE • REPAIR PARTS

(01-08) # 608786

Identification

Your CrustBuster® drill is identified by a Serial Number and Model Number. Record these numbers in the spaces provided in this manual and refer to them when ordering parts or requesting service.

Serial Number	Model Number

Warranty

WARRANTY: In addition to the implied warranties of fitness and of merchantability, CrustBuster®/Speed King, Inc. warrants new products sold by it to be free from defects in workmanship and material for a period of 12 months, from the date of delivery to the first user customer. Warranty on purchased parts (cylinder, blades, bearings, shanks, etc.) will be the same as that offered by the appropriate manufacturer of these parts.

EXCLUSIONS: No warranty of any kind is made by CrustBuster®/Speed King, Inc. with regard to new products which have been subject to operation in excess of recommended capacities, misuse, abuse, negligence, or accident, or have been altered or repaired in any manner not authorized by CrustBuster®/Speed King, Inc. CrustBuster®/Speed King, Inc. is constantly striving to improve its products. Changes in design and improvement will be made whenever CrustBuster®/Speed King, Inc. believes the efficiency of its products will be improved thereby, but without incurring any obligation to incorporate such improvements in any products which have been shipped or are in service. No obligation exists for compensation of unauthorized repairs or modifications without prior approval. And in no event will CrustBuster®/Speed King, Inc. be liable for consequential damages, such as but not limited to: downtime, delayed or late tillage or planting, etc.

WARRANTY REGISTRATION: This warranty is not valid unless registered with CrustBuster®/Speed King, Inc. within 10 days from the date of purchase. It is the sole responsibility of the selling retail dealer to fill out the registration forms and see that they are properly filed with CrustBuster®/Speed King, Inc. This can be done at crustbuster.com.

WARRANTY PROCEDURE: Should any part fail to conform with this warranty, CrustBuster®/Speed King, Inc. will repair or replace the part or parts which do not conform. If a part is defective, take it to your authorized CrustBuster® Farm Equipment Dealer immediately, along with your warranty registration, and complete the proper forms requesting a warranty adjustment. Our representative will pick up the part to be returned to the factory for examination. If the customer (first user) requests that a new part be substituted for the old part, a new part will be charged to the dealer who will in turn charge the customer. If the part is found by us to be defective, a credit for the part will be given to the dealer to be passed on to the customer. If the dealer or customer wishes to repair the part, this will be done only if authorized by CrustBuster®/Speed King, Inc. This warranty procedure is in addition to all remedies authorized by law.

CRUSTBUSTER®/SPEED KING, INC.
Box 526
Spearville, KS 67876

Specifications are subject to change without notice. CrustBuster ® is a registered trademark of CrustBuster/Speed King, Inc.

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BE A SAFE OPERATOR
BY THINKING BEFORE ACTING
AND
BY READING
YOUR OWNER'S MANUAL

Avoid Accidents

Most accidents, whether they occur in industry, on the farm, at home, or on the highway, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason most accidents can be prevented by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment, there are many conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A CAREFUL OPERATOR
is the Best Insurance Against an Accident.
The complete observance of one simple rule would prevent many thousands of serious injuries each year.

That rule is:

Never Attempt to
Clean, Oil, or Adjust
A Machine While It Is In Motion.

To Our Customers

The following pages and illustrations are printed to help supply you with the knowledge to better operate and service your new CrustBuster equipment.

We are proud to have you as a customer and feel you will be proud to be a CrustBuster owner.

Any piece of equipment needs, and must have, a certain amount of service and maintenance to keep it in top running condition. We have attempted to cover all the adjustments required to fit most conditions; however, there may be times when special care must be taken to fit a condition.

Study this owner's manual carefully and become acquainted with all the adjustments and operating procedures before attempting to operate your new equipment. Remember, it is a machine and has been designed and tested to do an efficient job in most operating conditions and will perform in relation to the services it receives.

If special attention is required for some condition, ask your CrustBuster dealer; he will be glad to help and answer any questions on operations and service of your new machine.

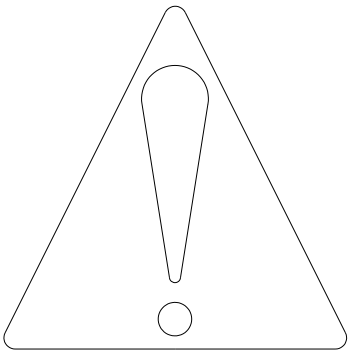
TAKE TIME FOR SAFETY

Safety

RECOGNIZE SAFETY INFORMATION

THIS IS THE SAFETY-ALERT SYMBOL. WHEN YOU SEE THIS SYMBOL ON YOUR MACHINE OR IN THIS MANUAL, BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY.

FOLLOW RECOMMENDED PRECAUTIONS AND SAFE OPERATING PRACTICES.



UNDERSTAND SIGNAL WORDS

A SIGNAL WORD-DANGER, WARNING, OR CAUTION-IS USED WITH THE SAFETY-ALERT SYMBOL. DANGER IDENTIFIES THE MOST SERIOUS HAZARDS.

DANGER OR WARNING SAFETY SIGNS ARE LOCATED NEAR SPECIFIC HAZARDS. GENERAL PRECAUTIONS ARE LISTED ON CAUTION SAFETY SIGNS. CAUTION ALSO CALLS ATTENTION TO SAFETY MESSAGES IN THIS MANUAL.

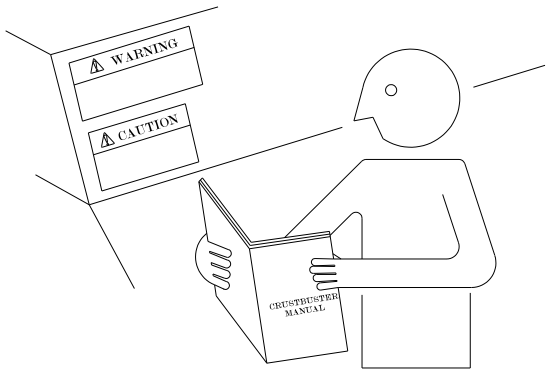
DANGER

WARNING

CAUTION

FOLLOW SAFETY INSTRUCTIONS

CAREFULLY READ ALL SAFETY MESSAGES IN THIS MANUAL AND ON YOUR MACHINE SAFETY SIGNS. KEEP SAFETY SIGNS IN GOOD CONDITION. REPLACE MISSING OR DAMAGED SAFETY SIGNS. BE SURE NEW EQUIPMENT COMPONENTS AND REPAIR PARTS INCLUDE THE CURRENT SAFETY SIGNS. REPLACEMENT SAFETY SIGNS ARE AVAILABLE FROM YOUR CRUSTBUSTER DEALER.



LEARN HOW TO OPERATE THE MACHINE AND HOW TO USE CONTROLS PROPERLY. DO NOT LET ANYONE OPERATE WITHOUT INSTRUCTION.

KEEP YOUR MACHINE IN PROPER WORKING CONDITION. UNAUTHORIZED MODIFICATIONS TO THE MACHINE MAY IMPAIR THE FUNCTION AND/OR SAFETY AND AFFECT MACHINE LIFE.

IF YOU DO NOT UNDERSTAND ANY PART OF THIS MANUAL AND NEED ASSISTANCE, CONTACT YOUR CRUSTBUSTER DEALER.

Safety

OPERATE SAFELY

DO NOT OPERATE DRILL WITH MORE THEN ONE PERSON ON THE TRACTOR.

DO NOT ALLOW ANYONE TO RIDE ON THE DRILL.

DO NOT OPERATE CLOSE TO A DITCH OR CREEK.

DRIVE SLOWLY OVER ROUGH GROUND.

SHIFT THE TRACTOR INTO A LOWER GEAR WHEN OPERATING ON STEEP SLOPES.

IF YOUR TRACTOR IS EQUIPPED WITH A ROLL-GUARD SAFETY CANOPY AND A SEAT BELT, BE SURE TO KEEP YOUR SEAT BELT FASTENED WHEN OPERATING OR TRANSPORTING THE DRILL.

HANDLE AND APPLY CHEMICALLY TREATED SEEDS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROPERLY DISPOSE OF UNUSED TREATED SEEDS AND THEIR CONTAINERS.

ALWAYS SHUT OFF TRACTOR ENGINE AND SHIFT TO PARK WHEN LEAVING TRACTOR. REMOVE KEY WHEN LEAVING TRACTOR UNATTENDED.

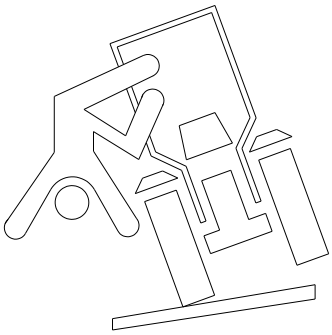
AVOID TIP-OVERS

USE A SEAT BELT UNDER ALMOST ALL OPERATING CONDITIONS.

AVOID HOLES, DITCHES, AND OBSTRUCTIONS WHICH MAY CAUSE THE MACHINE TO TIP, ESPECIALLY ON HILLSIDES.

NEVER DRIVE NEAR THE EDGE OF A GULLY OR STEEP EMBANKMENT-IT MIGHT CAVE IN.

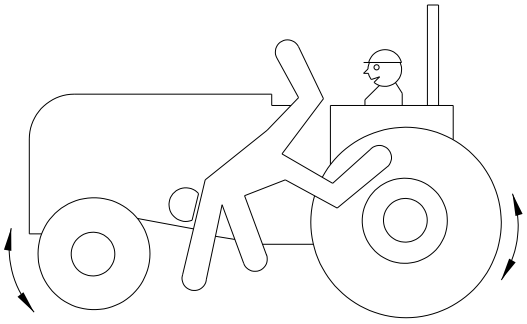
SLOW DOWN FOR HILLSIDES, ROUGH GROUND, AND SHARP TURNS.



KEEP RIDERS OFF MACHINE

ONLY ALLOW THE OPERATOR ON THE MACHINE. KEEP RIDERS OFF.

RIDERS ON MACHINE ARE SUBJECT TO INJURY SUCH AS BEING STRUCK BY FOREIGN OBJECTS AND BEING THROWN OFF OF THE MACHINE. RIDERS ALSO OBSTRUCT THE OPERATOR'S VIEW RESULTING IN THE MACHINE BEING OPERATED IN AN UNSAFE MANNER.



Safety

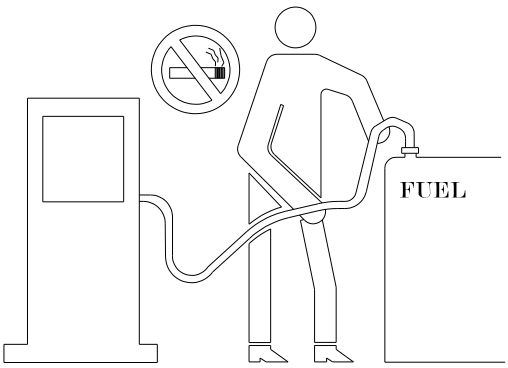
HANDLE FUEL SAFELY - AVOID FIRES

HANDLE FUEL WITH CARE: IT IS HIGHLY FLAMMABLE.

DO NOT REFUEL THE MACHINE WHILE SMOKING OR WHEN NEAR OPEN FLAME OR SPARKS.

ALWAYS STOP ENGINE BEFORE REFUELING MACHINE. FILL FUEL TANK OUTDOORS.

PREVENT FIRES BY KEEPING MACHINE CLEAN OF ACCUMULATED TRASH, GREASE, AND DEBRIS. ALWAYS CLEAN UP SPILLED FUEL.

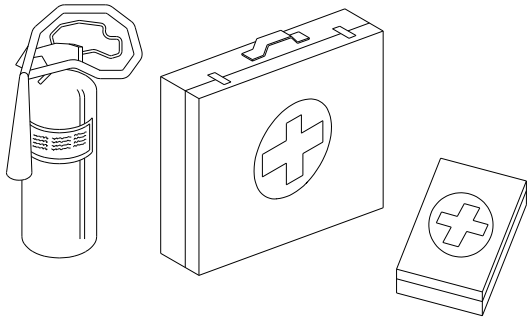


PREPARE FOR EMERGENCIES

BE PREPARED IF A FIRE STARTS.

KEEP A FIRST AID KIT AND FIRE EXTINGUISHER HANDY.

KEEP EMERGENCY NUMBERS FOR DOCTORS, AMBULANCE SERVICE, HOSPITAL, AND FIRE DEPARTMENT NEAR YOUR TELEPHONE.



PRACTICE SAFE MAINTENANCE

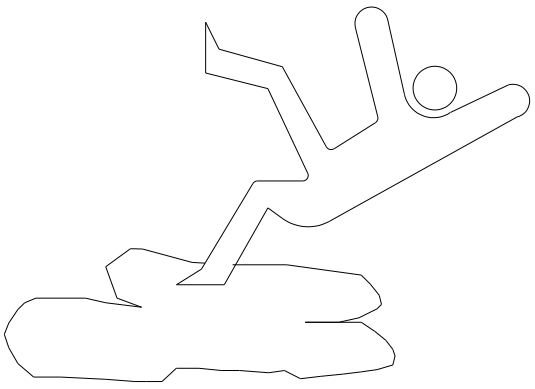
UNDERSTAND SERVICE PROCEDURE BEFORE DOING WORK. KEEP AREA CLEAN AND DRY.

NEVER LUBRICATE, SERVICE, OR ADJUST MACHINE WHILE IT IS MOVING. KEEP HANDS, FEET, AND CLOTHING FROM POWER DRIVEN PARTS. DISENGAGE ALL POWER AND OPERATE CONTROLS TO RELIEVE PRESSURE. LOWER EQUIPMENT TO THE GROUND. STOP THE ENGINE. REMOVE THE KEY. ALLOW MACHINE TO COOL.

SECURELY SUPPORT ANY MACHINE ELEMENTS THAT MUST BE RAISED FOR SERVICE WORK.

KEEP ALL PARTS IN GOOD CONDITION AND PROPERLY INSTALLED. FIX DAMAGE IMMEDIATELY. REPLACE WORN OR BROKEN PARTS. REMOVE ANY BUILDUP OF GREASE, OIL, OR DEBRIS.

DISCONNECT BATTERY GROUND CABLE (-) BEFORE MAKING ADJUSTMENTS ON ELECTRICAL SYSTEMS OR WELDING ON MACHINE.

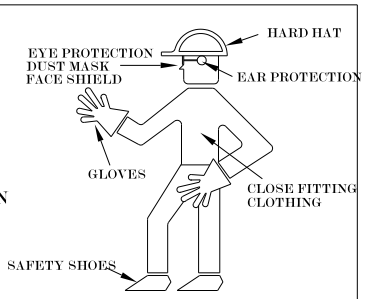


Safety

WEAR PROTECTIVE CLOTHING

WEAR CLOSE FITTING CLOTHING AND SAFETY EQUIPMENT APPROPRIATE TO THE JOB.

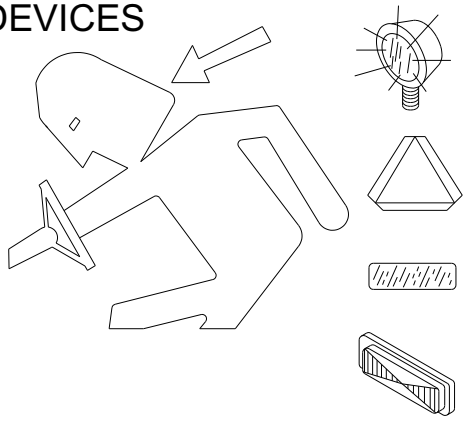
OPERATING EQUIPMENT SAFELY REQUIRES THE FULL ATTENTION OF THE OPERATOR. DO NOT WEAR RADIO OR MUSIC HEADPHONES WHILE OPERATING MACHINE.



USE SAFETY LIGHTS AND DEVICES

PREVENT COLLISIONS BETWEEN OTHER ROAD USERS, SLOW MOVING TRACTORS WITH ATTACHMENT OR TOWED EQUIPMENT, AND SELF-PROPELLED MACHINES ON PUBLIC ROADS. FREQUENTLY CHECK FOR TRAFFIC FROM THE REAR, ESPECIALLY IN TURNS, AND USE HAND SIGNALS OR TURN SIGNAL LIGHTS.

USE HEADLIGHTS, FLASHING WARNING LIGHTS, AND TURN SIGNALS DAY AND NIGHT. FOLLOW LOCAL REGULATIONS FOR EQUIPMENT LIGHTING AND MARKING. KEEP LIGHTING AND MARKING VISIBLE AND IN GOOD WORKING ORDER. REPLACE OR REPAIR LIGHTING AND MARKING THAT HAS BEEN DAMAGED OR LOST. AN IMPLEMENT SAFETY LIGHTING KIT IS AVAILABLE FROM YOUR CRUSTBUSTER DEALER.



TRANSPORT SAFELY

ALWAYS RAISE THE JACK STANDS BEFORE TRANSPORTING.

SHIFT THE TRACTOR INTO A LOWER GEAR WHEN TRANSPORTING DOWN STEEP SLOPES OR HILLS.

DO NOT TRANSPORT UNLESS THE GRAIN DRILL REFLECTORS, LIGHTS, AND SMV EMBLEM ARE EASILY VISIBLE FROM THE REAR.

NEVER TRANSPORT THE GRAIN DRILL FASTER THAN 32 KM/H (20 MPH.) REDUCE SPEED WHEN TRAVELING OVER ROUGH GROUND OR WITH THE BOX FULL. (CRUSTBUSTER DOES NOT RECOMMEND TRANSPORTING WITH A FULL GRAIN BOX.)

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

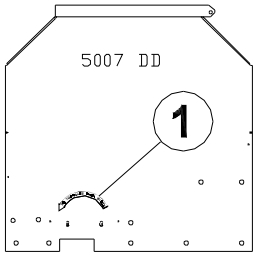
WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury. 

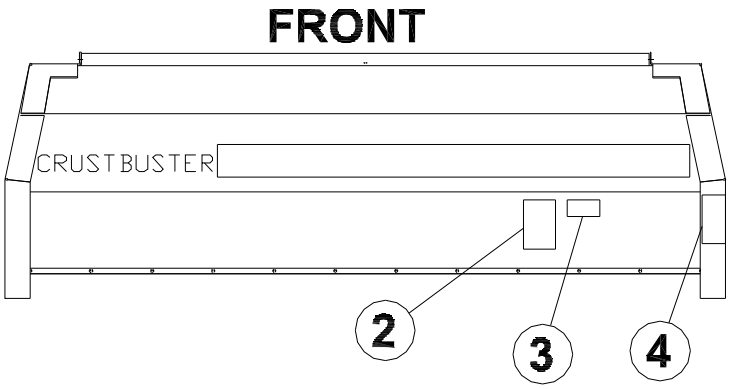
CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. 

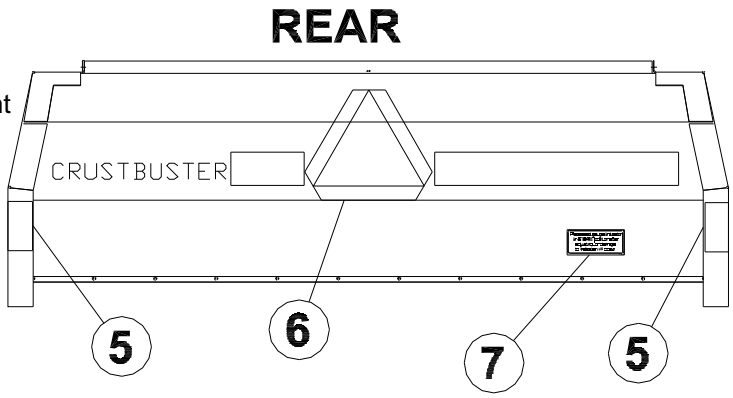
NOTICE: Used to address practices not related to physical injury. 

Safety Decals

REMEMBER: If Safety signs have been damaged, removed, become illegible or parts replaced without decals, new decals must be applied. New decals are available from your authorized distributor or factory. Decal part numbers and locations shown below.







Item	Qty	Part No.	Description
1	1	608760	Seed Slot Adjustment
2	1	600825	Drill Information
3	1	601732	Seed Slot Caution
4	1	600429	Amber Reflector
5	2	600437	Red Reflector
6	1	604512	Slow Moving Vehicle
7	1	608794	Store Seed Gauge

Dealer Set-up and Assembly

The drill is shipped completely set-up. Check all fasteners to be sure none have loosened during shipment.

Check all seed rotors to be sure they are closed and gauge indicates zero. *See page 10.*

Before Operating This Equipment

Read and understand this owner's manual.



Safety & Set-Up Instructions

- ○ **NEVER ALLOW ANYONE TO RIDE THE DRILL!**
- ○ Check lug nuts or bolts. Torque to 100 ft. lbs. after approximately 1 mile and periodically after.
- ○ 5015 Model - If your tractor does not already have a lighting receptacle, install one. Always plug in the drill lighting system to a correctly wired tractor and USE for transport safety.

Field Operating Checklist

____ Inflate tires to recommended air pressure. Drive wheel - 10 psi
Lift Arm wheels - 32 psi

____ Lubrication as required. *See page 12.*

____ Seed shafts turned manually to check for obstructions and improper chain alignment on drive sprockets.

____ Correct sprocket selection and slot width for seed type and size.

____ Calibration as required for accuracy.

____ Lift and pin support stands UP before transporting or operating drill.

____ Three point center link is adjusted for level drill operation.

____ Drill is hooked secure to tractor.

____ Down pressure set for soil conditions.

____ Record acre meter reading.

____ Do not back up with drill lowered.

____ Lower drill while moving forward to avoid plugging openers.

____ Check seed depth and adjust accordingly.

____ Allow no riders.

____ If transporting drill while box is full, turn drive wheels manually before drilling to assure compaction has not stopped seed flow. (CrustBuster does not recommend transporting with full grain box.)

____ Do not turn sharply with drill in ground.

3-Point Hitch Drills

Prepare for field use

Drills are equipped with bolt on hitches for category II or III tractor 3-point lift.

Back tractor to drill while aligning 3-point links with lower hitch points on drill. Secure lower links with pins provided. Attach upper third link to drill and adjust to level drill frame.

Make sure tractor has enough front weight to retain steering control while transporting drill. Refer to tractor operator's manual for front weight and 3-point information.

Raise drill with 3-point lift. Lift and pin parking stands.

Transporting

Avoid transporting with full seed box. The extra weight can make tractor control difficult at transport speed.

Slow down when turning and crossing rough terrain.

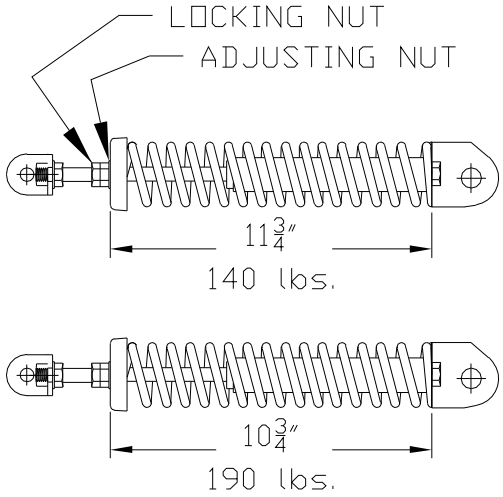
Observe all laws and regulations concerning transport on public roads. Be sure all warning signs and devices are visible and working properly.

Drill Opener

Setting Down Pressure

Opener pressure setting is easy and allows separate settings for tire compaction areas to different soil conditions from field to field. Screw mechanism allows you to turn the pressure up or down. The locking nut locks the desired setting from 140 lbs. to 190 lbs. per opener.

To adjust spring, loosen locking nut. Tighten adjusting nut to increase opener down pressure. A spring length of 11 3/4" is 140 lbs. opener down pressure. A spring length of 10 3/4" is 190 lbs. opener down pressure. After adjusting, lock adjusting nut by jamming with locking nut.



Drill Height

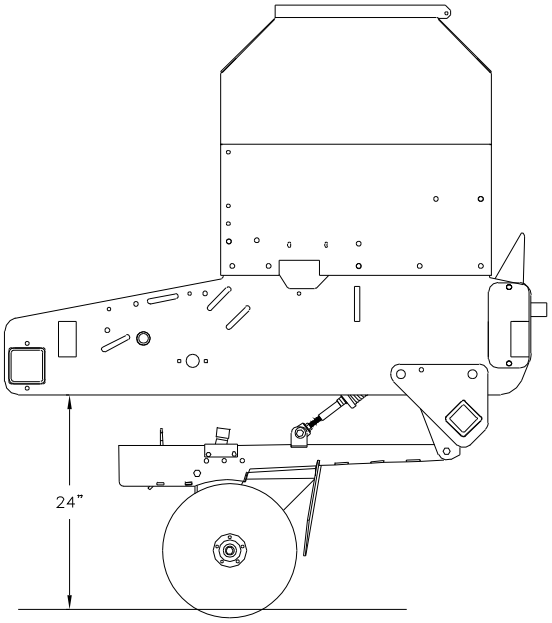
For best performance, the drill openers should be operated level. This is achieved with a frame height of approximately 24".

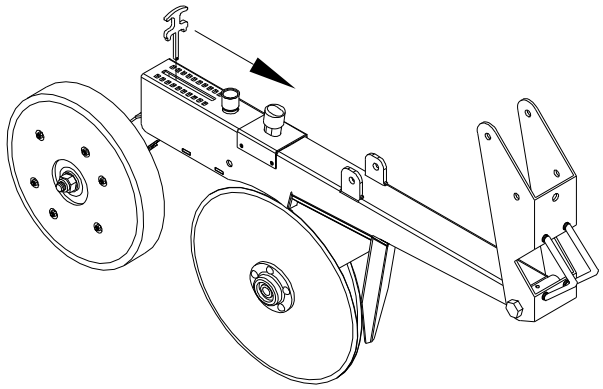
NOTE: No-till drills with coulters.
The depth of the coulters is set with the height of the drill frame. Set the drill frame height so the coulter penetrates the soil near the desired seed planting depth.

Row units that run in wheel tracks can be set with heavier down pressure to assure solid press wheel action.

Individual presswheels may be set to correct for wheel track compaction. Usually, these will only need to be adjusted once if the same tractor is pulling the drill the entire season. At the rear of the opener, a T-handle stops the single press wheel arm. Lift handle and move to achieve the desired depth control.

Move T-handle FORWARD to place seed more shallow. Each notch changes seeding depth approximately 5/16“.





Wobble Slot Seed Cup Adjustments and Service

The wobble slot seed cups should be checked against the slot gauge initially and anytime service has been performed on the seed shaft or individual seed cups.

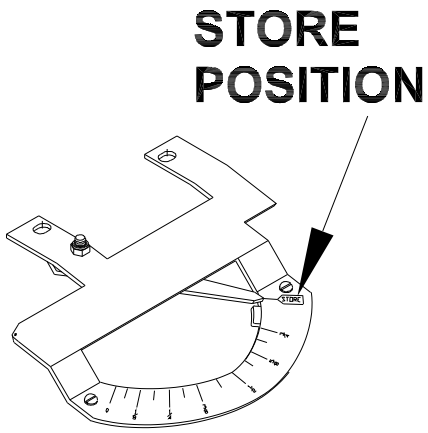
To verify that all seed cups are set the same on the shaft, start with all cups fully closed. A slight crack between the cup halves would be considered normal tolerance. If any individual cup is not “zeroed out”, open slot width using the adjusting handle, loosen allen set screws and adjust to equal others on shaft.

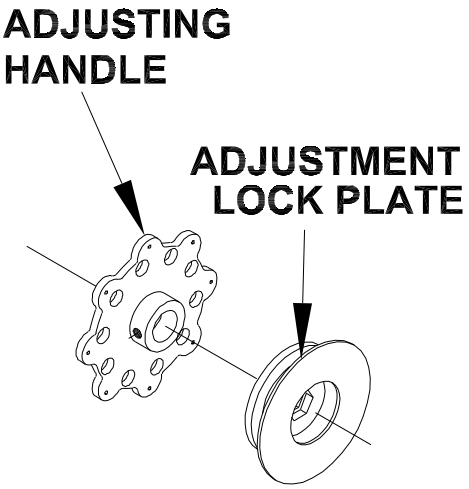
To determine if the gauge is reflecting the correct seed cup slot width, close the seed cups using the adjusting handle. Loosen the nuts which hold the gauge mount to seed cup. Make sure gauge needle is firmly against the slot half and secure gauge plate to read zero.

Turn adjusting handle counter clockwise to open slot to desired width. *(Refer to seed rate charts pages 13 to 20.)* Lock adjusting handle with wing nut.

Small changes in rate can be made by opening or closing slot width. To close the slot width with grain in the box, close the slot down a maximum of 1/8" and then rotate the shaft one turn to clear the slot. Repeat this process until the desired slot width is selected.

Seeding rate is affected by seed size, seed treatments, foreign material, and test weight. Refer to seed rate charts as guidelines for desired seeding rates.





Chain Tension on Drive Shaft

When making sprocket changes to the seed shaft, tighten chain to leave approximately 1/2" of flex. The final sprocket must allow the hex shaft to slide within the sprocket when the adjusting handle is turned. If the chain is too tight, bowing and binding of box end will occur making seed cup adjustment difficult. Lightly lubricate the shaft where the sprocket will slide.

DO NOT OVERTIGHTEN CHAIN.

Calibration and Seed Rates

Calibration/Drilling Rates

Planting the right rate can be frustrating. Sometimes the end result is not what the rate chart indicates. Seeding rate is affected by seed size, seed treatments, foreign material, test weight, and tire air pressure.

1. Always plant clean seed.
2. Check tire air pressure.
3. Seed treatments vary by type and time of application.

Some seeds are treated at the processor. Drill box treatments are common methods of application. Each of these can "gum" up the wobble slot cup halves and reduce final seeding rate. Treated seed often flows differently than non-treated seed.

A general method for checking quantities drilled is as follows:

1. Set drill for desired seeding rate.
2. Fill the box level; then pull drill for a short distance to settle seed. Refill box exactly level full.
3. Drill a calculated one acre.
4. Carefully weigh the seed required to refill the box level full.
5. Compare the amount used versus that stated on the rate chart.
6. Adjust seeding rate by changing the sprocket combination or wobble slot width.

A stationary rate check can be made by manually turning the drive wheel. To complete this procedure:

1. Set drill for desired seeding rate.
2. Place a sufficient amount of seed in box to complete test. Raise drill.
3. Place a tarp or other material under opener seed drop to catch seed.
4. Turn drive wheel the required number of times to plant one-tenth acre. (See chart below).

Drill Width	Turns of Drive Wheel
7'	108
10'	76
15'	51

5. Collect seed from tarp and carefully weigh it.
6. This weight times ten is the calculated seed rate per acre.
7. If this is not the desired seeding rate adjust by changing sprocket combination or wobble slot width.
8. Repeat rate check.

Another method involves catching seed from one or more seed cups and utilizing a density scale to determine actual rates. These scales are commercially available, inexpensive and very easy to use. Information can be obtained from CrustBuster®/Speed King, Inc.

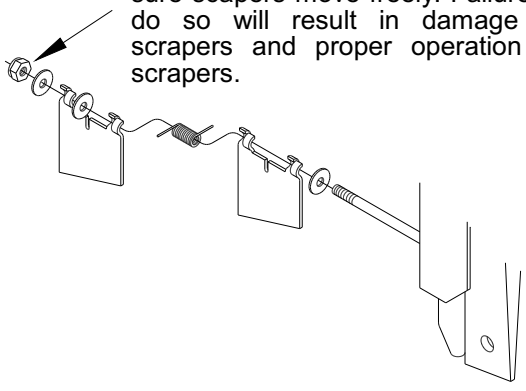
Drive Wheel

The spring loaded drive wheel should not require any adjustment. Make sure frame height is low enough to cause drive wheel spring to compress enough to stay firmly in contact with ground.

Scraper Blade Replacement

Opener blade inside scrapers are spring loaded and require no adjustment. To replace the scraper blades, remove rear lock nut and slide both blades from stem. Assemble with new blades and replace onto stem being careful not to overtighten lock nut.

NOTE: Do not over tighten lock nut. Be sure scapers move freely. Failure to do so will result in damage to scrapers and proper operation of scrapers.

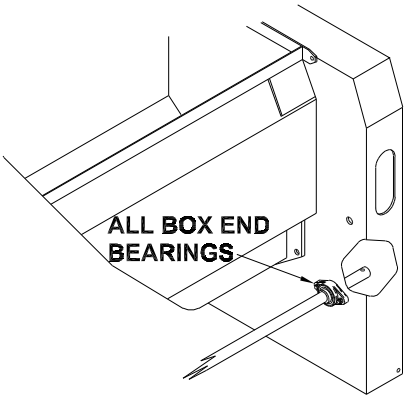


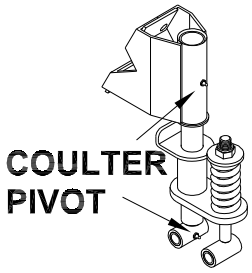
Lubrication, Maintenance, and Service

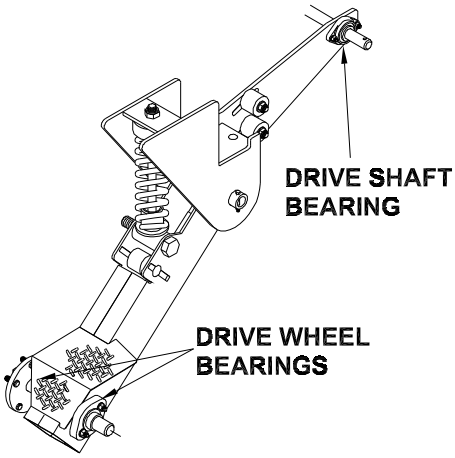
Proper maintenance will extend the life of your drill and give you years of excellent performance. Refer to repair part drawings and illustrations below for lubrication requirements. Use a high quality grease in pivot points and bearings. On greaseable sealed bearings, be careful not to over-grease and destroy the dirt seal. Pay attention to recommended intervals.

Oil chains with a chain lube. A light penetrating oil or liquid graphite should be used on seed cups initially and at the end of each season. Clean cups with air pressure or vacuum before applying penetrating oil.

Do Not Attempt To Service Your Drill While It Is In Motion!



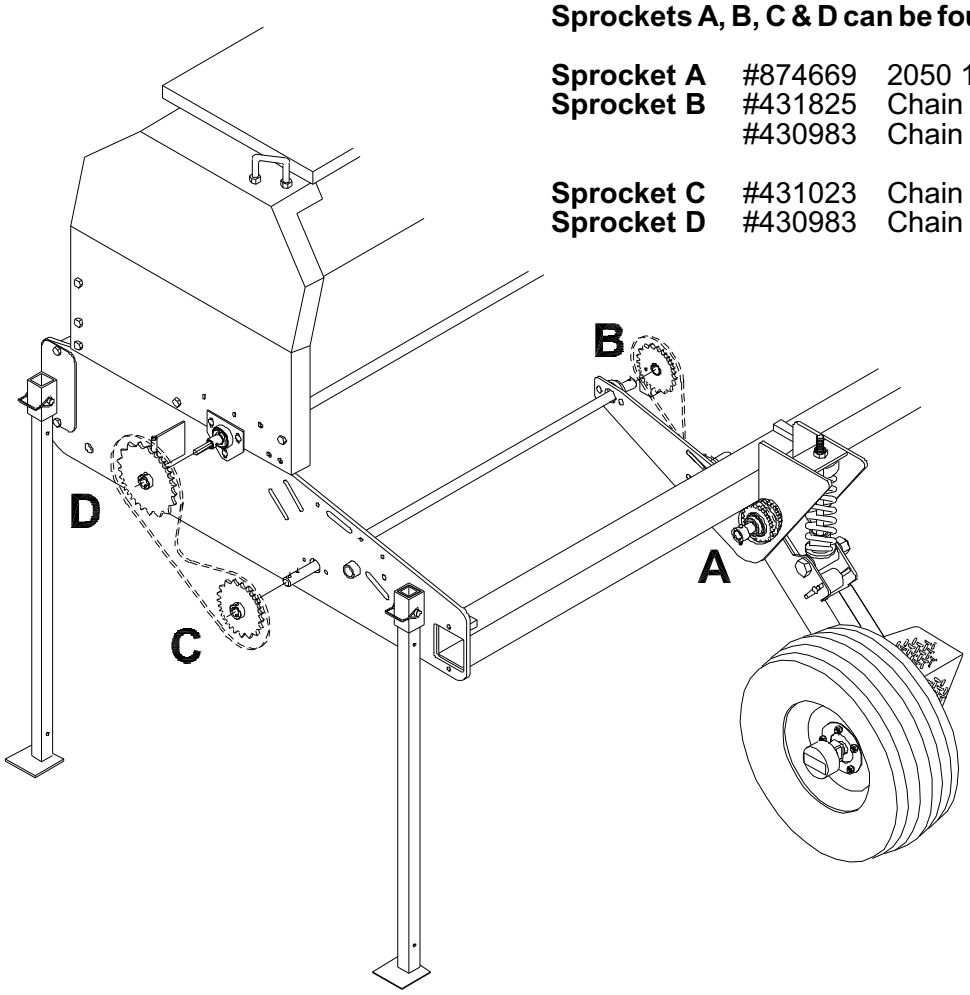




Sprocket Locations

Sprockets A, B, C & D can be found in seed rate charts

Sprocket A	#874669	2050 18T
Sprocket B	#431825	Chain 2050 x 47 Pitches
	#430983	Chain Connector 2050
Sprocket C	#431023	Chain 2050 x 41 Pitches
Sprocket D	#430983	Chain Connector 2050



Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

ALFALFA

Sprockets				6 2/3" Spacing		7 1/2" Spacing	
A	B	C	D	1/8"	1/4"	1/8"	1/4"
18	44	12	44	5	9	5	8
18	37	12	44	6	11	6	10
18	30	12	44	8	14	7	12
18	30	12	37	9	16	8	14
18	30	18	44	12	20	10	18
18	25	18	44	14	24	12	22
18	25	18	37	17	29	15	26
18	25	20	37	18	32	16	29
18	25	18	30	20	36	18	32
18	25	20	30	23	40	20	35
18	25	30	37	28	48	25	43
18	25	18	20	31	54	27	48
18	20	25	30	35	62	32	55
18	18	20	25	38	66	34	59
18	30	18	12	43	74	38	66
18	30	44	25	50	87	44	78
18	30	37	20	52	92	47	82
18	30	44	20	62	109	56	97

BARLEY

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	17	21	25	15	18	22
18	30	12	37	20	25	29	18	22	26
18	30	18	44	25	31	37	22	27	33
18	25	18	44	30	37	45	27	33	40
18	25	18	37	36	44	53	32	39	47
18	25	20	37	40	49	59	35	44	52
18	25	18	30	44	54	65	39	48	58
18	25	20	30	49	60	73	44	54	65
18	25	30	37	60	74	88	53	65	78
18	25	18	20	66	82	98	59	73	87
18	20	25	30	77	94	113	68	84	101
18	18	20	25	82	101	121	73	90	108
18	30	18	12	92	113	136	82	101	121
18	30	44	25	108	133	160	96	118	142
18	30	37	20	113	140	168	101	124	149
18	30	44	20	135	166	199	120	148	177
18	18	20	12	170	210	252	151	187	224
18	18	37	20	189	233	280	168	207	249
18	18	30	12	255	315	378	227	280	336
18	18	37	12	315	388	466	280	345	414

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

CANOLA

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	3/16"	1/4"	3/4"	3/16"	1/4"	3/4"
18	44	12	44	6	8	12	5	7	11
18	37	12	44	7	10	15	6	9	13
18	30	12	44	9	12	18	8	11	16
18	30	12	37	11	14	21	9	13	19
18	30	18	44	13	18	27	12	16	24
18	25	18	44	16	22	32	14	19	29
18	25	18	37	19	26	38	17	23	34
18	25	20	37	21	29	43	19	25	38
18	25	18	30	24	32	47	21	28	42
18	25	20	30	26	35	53	23	31	47
18	25	30	37	32	43	64	28	38	57
18	25	18	20	35	48	71	32	42	63
18	20	25	30	41	55	82	37	49	73

CORN

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	9	12	16	8	11	14
18	30	12	37	11	15	19	10	13	16
18	30	18	44	14	19	23	12	17	21
18	25	18	44	16	22	28	15	20	25
18	25	18	37	20	26	33	17	24	30
18	25	20	37	22	29	37	19	26	33
18	25	18	30	24	33	41	22	29	37
18	25	20	30	27	36	46	24	32	41
18	25	30	37	33	44	56	29	39	49
18	25	18	20	36	49	62	32	44	55
18	20	25	30	42	57	71	37	50	64
18	18	20	25	45	60	76	40	54	68
18	30	18	12	50	68	86	45	61	76
18	30	44	25	59	80	101	53	71	89
18	30	37	20	62	84	106	55	75	94
18	30	44	20	74	100	126	66	89	112
18	18	20	12	93	126	159	83	112	141
18	18	37	20	104	140	176	92	124	157
18	18	30	12	140	189	238	125	168	212
18	18	37	12	173	233	293	154	207	261

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

COTTON

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	12	15	18	11	13	16
18	30	12	37	15	17	22	13	16	19
18	30	18	44	19	22	27	17	20	24
18	25	18	44	22	26	33	20	23	29
18	25	18	37	26	31	39	24	28	35
18	25	20	37	29	35	44	26	31	39
18	25	18	30	33	39	48	29	34	43
18	25	20	30	36	43	54	32	38	48
18	25	30	37	44	52	65	39	47	58
18	25	18	20	49	58	73	44	52	65
18	20	25	30	57	67	84	50	60	75
18	18	20	25	60	72	90	54	64	80
18	30	18	12	68	81	101	61	72	90
18	30	44	25	80	95	118	71	84	105
18	30	37	20	84	99	124	75	88	111
18	30	44	20	100	118	148	89	105	131
18	18	20	12	126	149	187	112	133	166
18	18	37	20	140	166	207	124	147	184
18	18	30	12	189	224	280	168	199	249
18	18	37	12	233	276	345	207	246	307

FESCUE

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	3/8"	1/2"	5/8"	3/8"	1/2"	5/8"
18	44	12	44	5	6	8	4	6	7
18	37	12	44	6	7	10	5	7	9
18	30	12	44	7	9	12	6	8	11
18	30	12	37	8	11	14	7	10	13
18	30	18	44	10	14	18	9	12	16
18	25	18	44	12	16	21	11	15	19
18	25	18	37	15	20	25	13	17	23
18	25	20	37	16	22	28	15	19	25
18	25	18	30	18	24	31	16	22	28
18	25	20	30	20	27	35	18	24	31
18	25	30	37	25	33	42	22	29	38
18	25	18	20	27	36	47	24	32	42
18	20	25	30	31	42	55	28	37	49
18	18	20	25	34	45	58	30	40	52
18	30	18	12	38	50	65	34	45	58
18	30	44	25	44	59	77	39	53	68
18	30	37	20	47	62	81	41	55	72
18	30	44	20	55	74	96	49	66	85

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

MILLET

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	3/16"	1/4"	3/8"	3/16"	1/4"	3/8"
18	44	12	44	4	6	9	4	6	8
18	37	12	44	5	8	10	4	7	9
18	30	12	44	6	9	13	5	8	11
18	30	12	37	7	11	15	6	10	14
18	30	18	44	9	14	19	8	13	17
18	25	18	44	11	17	23	10	15	20
18	25	18	37	13	20	27	12	18	24
18	25	20	37	14	22	30	13	20	27
18	25	18	30	16	25	34	14	22	30
18	25	20	30	18	28	37	16	25	33
18	25	30	37	22	34	46	19	30	41
18	25	18	20	24	37	51	21	33	45
18	20	25	30	28	43	58	25	38	52
18	18	20	25	30	46	62	26	41	56
18	30	18	12	33	52	70	30	46	62
18	30	44	25	39	61	82	35	54	73
18	30	37	20	41	64	87	36	57	77
18	30	44	20	49	76	103	43	67	92

MILO

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	3/16"	1/4"	3/8"	3/16"	1/4"	3/8"
18	44	12	44	5	7	13	4	6	11
18	37	12	44	5	8	15	5	7	13
18	30	12	44	7	10	18	6	9	16
18	30	12	37	8	12	22	7	10	19
18	30	18	44	10	15	28	9	13	25
18	25	18	44	12	17	33	11	15	29
18	25	18	37	14	21	39	13	18	35
18	25	20	37	16	23	44	14	20	39
18	25	18	30	18	26	49	16	23	43
18	25	20	30	20	28	54	18	25	48
18	25	30	37	24	35	66	21	31	58
18	25	18	20	27	38	73	24	34	65
18	20	25	30	31	44	84	28	39	75
18	18	20	25	33	47	90	29	42	80
18	30	18	12	37	53	101	33	47	90
18	30	44	25	44	62	119	39	56	106
18	30	37	20	46	66	125	41	58	111
18	30	44	20	55	78	148	49	69	132

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

OATS

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	8	11	15	7	10	13
18	30	12	37	10	13	17	9	11	15
18	30	18	44	12	16	22	11	14	19
18	25	18	44	15	20	26	13	17	23
18	25	18	37	18	23	31	16	21	28
18	25	20	37	20	26	35	17	23	31
18	25	18	30	22	29	38	19	25	34
18	25	20	30	24	32	43	22	28	38
18	25	30	37	29	39	52	26	34	46
18	25	18	20	33	43	58	29	38	51
18	20	25	30	38	50	67	34	44	59
18	18	20	25	40	53	71	36	47	63
18	30	18	12	45	60	80	40	53	71
18	30	44	25	53	70	94	47	62	83
18	30	37	20	56	74	99	50	65	88
18	30	44	20	66	87	117	59	78	104
18	18	20	12	84	110	148	75	98	132
18	18	37	20	93	123	164	83	109	146
18	18	30	12	126	166	222	112	147	198
18	18	37	12	155	204	274	138	182	244

PINTO BEANS

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	11	14	17	10	13	15
18	30	12	37	13	17	20	12	15	18
18	30	18	44	16	22	26	15	19	23
18	25	18	44	20	26	31	17	23	27
18	25	18	37	23	31	37	21	27	33
18	25	20	37	26	34	41	23	30	36
18	25	18	30	29	38	45	26	34	40
18	25	20	30	32	42	50	28	38	45
18	25	30	37	39	51	61	35	46	55
18	25	18	20	43	57	68	38	51	60
18	20	25	30	50	66	79	44	59	70
18	18	20	25	53	70	84	47	63	75
18	30	18	12	60	79	94	53	71	84
18	30	44	25	70	93	111	62	83	99
18	30	37	20	74	98	116	66	87	104
18	30	44	20	88	116	139	78	103	123
18	18	20	12	111	147	175	99	131	156
18	18	37	20	123	163	194	109	145	173
18	18	30	12	166	220	262	148	196	233
18	18	37	12	205	272	324	182	242	288

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

RICE

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	15	18	22	13	16	19
18	30	12	37	17	22	26	16	19	23
18	30	18	44	22	28	32	20	25	29
18	25	18	44	26	33	39	24	30	35
18	25	18	37	31	39	46	28	35	41
18	25	20	37	35	44	51	31	39	46
18	25	18	30	39	49	57	34	43	51
18	25	20	30	43	54	63	38	48	56
18	25	30	37	52	66	77	47	58	68
18	25	18	20	58	73	85	52	65	76
18	20	25	30	67	84	99	60	75	88
18	18	20	25	72	90	105	64	80	94
18	30	18	12	81	101	119	72	90	105
18	30	44	25	95	119	139	84	106	124
18	30	37	20	100	125	146	89	111	130
18	30	44	20	118	149	174	105	132	155
18	18	20	12	149	188	219	133	167	195
18	18	37	20	166	208	244	148	185	217
18	18	30	12	224	282	329	199	250	293
18	18	37	12	277	347	406	246	309	361

RYE

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	21	27	35	19	24	31
18	30	12	37	25	32	42	22	29	37
18	30	18	44	32	41	52	28	36	47
18	25	18	44	38	49	63	34	44	56
18	25	18	37	45	58	75	40	52	67
18	25	20	37	51	65	83	45	57	74
18	25	18	30	56	72	92	50	64	82
18	25	20	30	62	80	103	55	71	91
18	25	30	37	76	97	125	67	86	111
18	25	18	20	84	108	139	75	96	123
18	20	25	30	97	125	160	87	111	143
18	18	20	25	104	133	171	92	118	152
18	30	18	12	117	149	192	104	133	171
18	30	44	25	137	175	226	122	156	201
18	30	37	20	144	184	237	128	164	211
18	30	44	20	171	219	282	152	195	251
18	18	20	12	216	277	356	192	246	317
18	18	37	20	240	307	395	214	273	352
18	18	30	12	324	415	534	289	369	475
18	18	37	12	400	512	659	356	455	586

Seed Rate Charts for Large Seed Hopper

(Revised 12-09-11)

SOYBEANS

Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	14	19	23	13	17	21
18	30	12	37	17	22	28	15	20	25
18	30	18	44	21	28	35	19	25	31
18	25	18	44	25	34	42	23	30	38
18	25	18	37	30	40	50	27	36	45
18	25	20	37	33	45	56	30	40	50
18	25	18	30	37	49	62	33	44	55
18	25	20	30	41	55	69	37	49	61
18	25	30	37	50	67	84	45	59	74
18	25	18	20	56	74	93	50	66	83
18	20	25	30	64	86	107	57	76	96
18	18	20	25	69	92	115	61	81	102
18	30	18	12	77	103	129	69	92	115
18	30	44	25	91	121	151	81	108	134
18	30	37	20	95	127	159	85	113	141
18	30	44	20	113	151	189	101	134	168
18	18	20	12	143	191	239	127	170	212
18	18	37	20	159	212	265	141	188	236
18	18	30	12	215	286	358	191	255	318
18	18	37	12	265	353	441	236	314	393

WHEAT

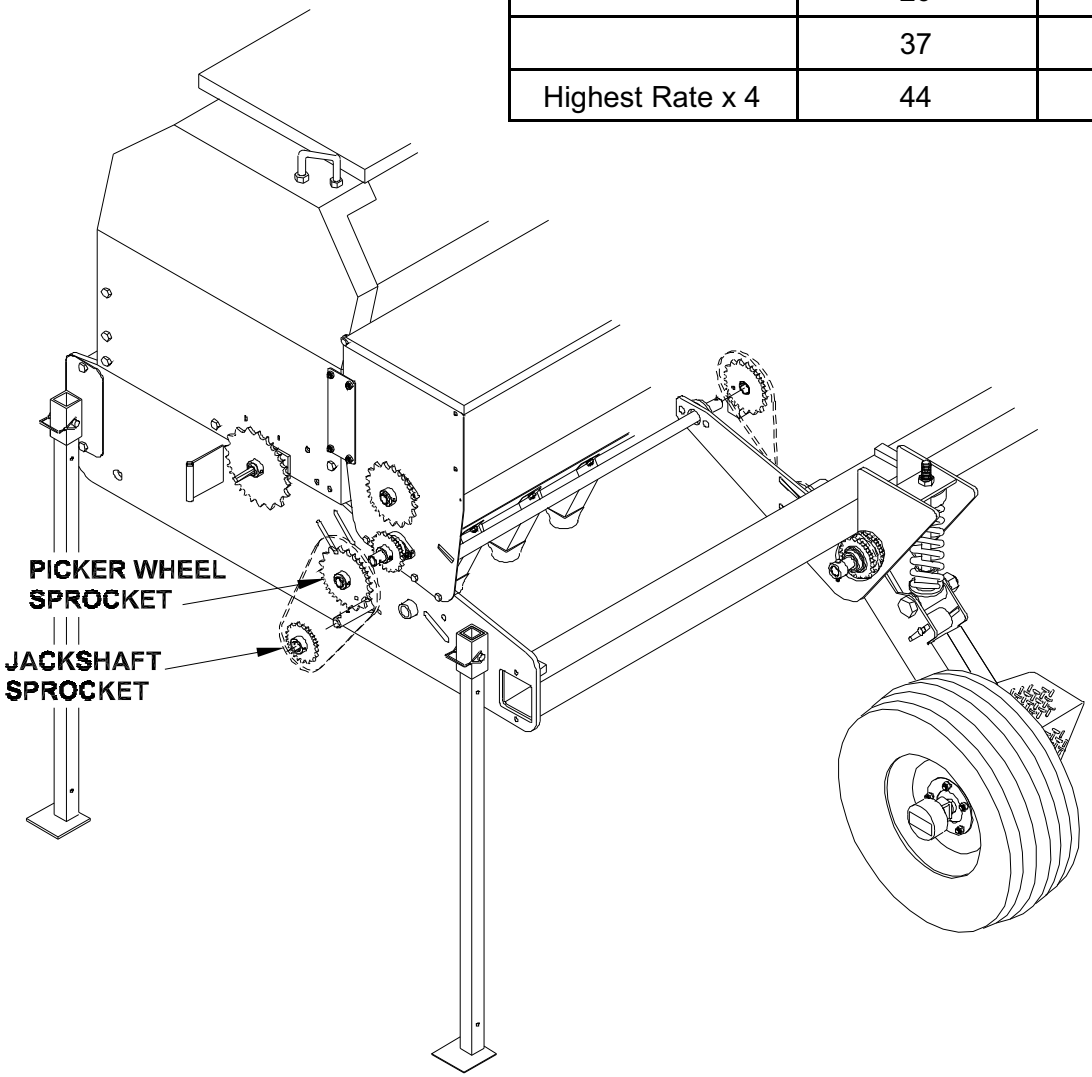
Sprockets				6 2/3" Spacing			7 1/2" Spacing		
A	B	C	D	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
18	30	12	44	24	30	36	21	26	32
18	30	12	37	28	35	42	25	31	38
18	30	18	44	36	45	54	32	40	48
18	25	18	44	43	54	64	38	48	57
18	25	18	37	51	64	76	45	57	68
18	25	20	37	57	71	85	50	63	76
18	25	18	30	63	79	94	56	70	84
18	25	20	30	70	87	105	62	78	93
18	25	30	37	85	106	127	76	94	113
18	25	18	20	94	118	141	84	105	126
18	20	25	30	109	136	164	97	121	146
18	18	20	25	116	146	175	104	129	155
18	30	18	12	131	164	196	117	146	175
18	30	44	25	154	192	231	137	171	205
18	30	37	20	162	202	242	144	180	216
18	30	44	20	192	240	288	171	214	256
18	18	20	12	243	303	364	216	270	324
18	18	37	20	269	337	404	240	299	359
18	18	30	12	364	455	546	324	405	486
18	18	37	12	449	561	673	399	499	599

Native Grass Attachment Option

The native grass, or also called warm season grass, attachment is built to plant fluffy type grass seed. The agitators inside the box keep the seed moving above the picker wheels which then pulls the seed down to the seed tube.

To adjust seed rate the picker wheels must turn slower or faster. The picker wheels have no other way to change rate. The table below show various sprocket combinations available. The speed of the picker wheels increases as you move down this table.

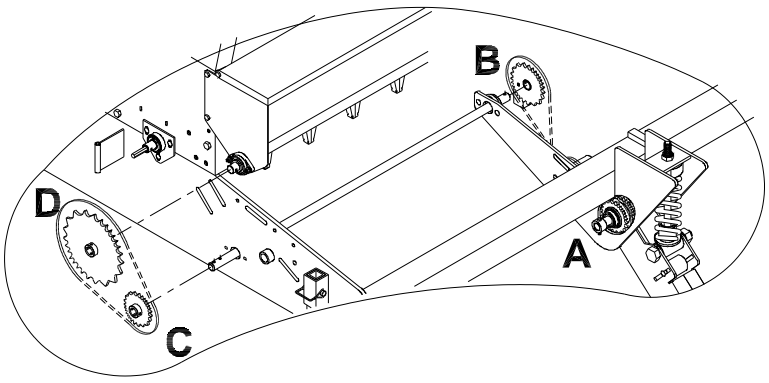
	Jackshaft Sprocket	Picker Wheel Sprocket
Lowest Rate	12	44
	12	37
	18	44
	20	44
	18	37
	20	37
	37	44
Highest Rate x 4	44	37



Seed Rate Charts for Small Seed Hopper — Row Spacing 6 2/3"

Rate Chart for reference only. Use calibration for exact seed rate.

Seed Type	Seed Rate	C Sprocket Teeth #	Turns of Adjusting Handle / Meter Opening																
			5/8	1 1/4	2	2 1/2	3 1/8	3 3/4	4 3/8	5	5 3/8	6 1/4	7	7 1/2	8 1/8	8 3/4	9 3/8	10
			1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"
Alfalfa	Low	12		2	3	5	7	8	10	12	14	15	17	19	21	24	25	27
	High	20		3	6	9	12	15	18	21	24	27	30	33	37	42	45	48
Alfalfa Coated	Low	12		2	4	7	8	10	12	14	16	19	19	20	23	25	27	29
	High	20		3	7	12	15	18	21	24	28	33	34	36	40	45	48	51
Bahia Grass	Low	12	1	2	3	3	5	7	8	10	11	12	14	15	16	17	19	20
	High	20	1	3	4	6	9	12	15	18	19	21	24	27	28	30	33	36
Bentgrass	Low	12	1	2	2	3	3	4	5	5	6	6	7	8	8	9	9	10
	High	20	2	3	4	5	6	7	8	9	10	11	12	14	15	16	16	17
Bermuda Grass	Low	12		2	4	7	8	10	12	14	15	17	19	22	24	25	27	29
	High	20		3	7	12	15	18	21	24	27	30	34	39	42	45	48	51
Canola	Low	12		1	3	5	7	8	10	11	13	14	16	18	19	21	22	24
	High	20		2	6	9	12	14	17	20	22	25	28	31	34	36	39	42
Centipede	Low	12		2	3	5	8	10	12	14	15	17	19	20	22	24	25	27
	High	20		3	6	9	13	18	21	24	27	30	33	36	39	42	45	48
Clover Alsike	Low	12	1	2	4	6	7	9	11	13	15	17	19	20	22	23	25	27
	High	20	1	4	7	10	13	16	19	22	26	29	33	36	39	41	44	47
Clover Red	Low	12	1	3	5	7	8	10	12	14	16	19	21	23	25	27	28	30
	High	20	1	5	8	12	15	18	22	25	29	33	36	40	44	47	50	54
Kentucky Bluegrass	Low	12		1	1	2	3	3	4	5	5	6	7	8	8	9	10	11
	High	20		1	3	4	5	6	7	8	10	11	12	13	15	16	18	19
KY31 Fescue	Low	12				2	2	3	4	4	5	5	5	6	7	7	8	8
	High	20				3	4	5	6	7	8	9	10	10	12	13	13	14
Love Grass	Low	12	2	3	5	7	8	10	12	14	15	17	18	19	20	22	23	24
	High	20	3	6	9	12	15	18	21	24	27	30	31	33	36	39	40	42
Lespedeza	Low	12	1	2	3	3	4	5	6	7	8	8	9	10	11	12	13	14
	High	20	1	3	4	6	7	9	10	12	13	15	16	18	19	21	22	24
Lespedeza Unhulled	Low	12		2	4	7	8	10	13	15	18	20	23	25	28	30	33	36
	High	20		3	7	12	15	18	22	27	31	36	40	45	49	54	58	63
Millet	Low	12		2	3	5	6	7	8	10	12	14	14	15	17	19	19	20
	High	20		3	6	9	10	12	15	18	21	24	25	27	30	33	34	36
Rape Seed	Low	12		3	5	7	8	9	11	12	14	15	17	19	21	23	26	29
	High	20		6	9	12	14	16	19	21	24	27	30	33	37	41	46	51
Ryegrass Annual	Low	12		1	2	2	3	5	6	7	8	9	10	11	12	14	14	15
	High	20		1	3	4	6	8	10	12	14	16	18	20	22	24	26	27
Ryegrass Perenial	Low	12		1	2	2	4	5	6	7	8	9	10	11	12	13	14	15
	High	20		1	3	4	6	8	10	13	15	16	18	20	22	24	25	27
Sudan Grass	Low	12	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31
	High	20	2	5	9	12	16	19	23	27	31	34	37	40	44	48	52	56
Switchgrass	Low	12		2	3	5	6	7	9	12	14	15	16	18	20	22	25	27
	High	20		4	6	8	10	12	16	21	24	27	29	31	35	39	43	48
Wheatgrass Tall	Low	12						1	1	2	2	2	2	3	3	4	5	5
	High	20						1	2	3	4	4	4	4	6	7	8	10

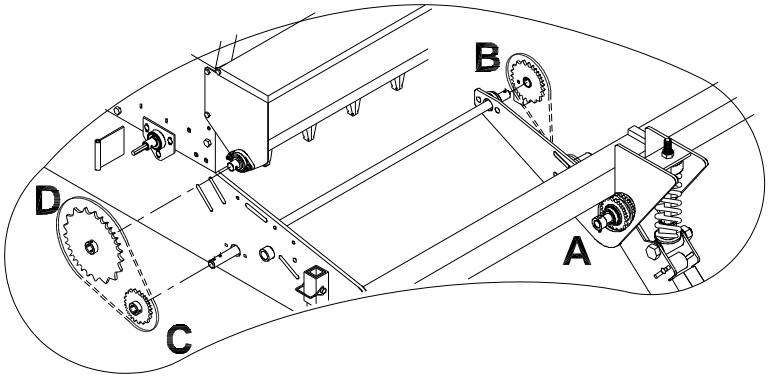


Sprocket A	#874669	2050 18T
Sprocket B	#935080	2050 20T w/ 1" Hub
	#431825	Chain 2050 x 47 Pitches
	#430983	Chain Connector 2050
Sprocket C	#935080	2050 20T w/ 1" Hub
OR	#935072	2050 12T w/1" Hub
Sprocket D	#954362	2050 44T w/1" Hub
	#431841	Chain 2050 x 37 Pitches
	#430983	Chain Connector 2050
	#431270	Chain Offset Link 2050

Seed Rate Charts for Small Seed Hopper — Row Spacing 7½"

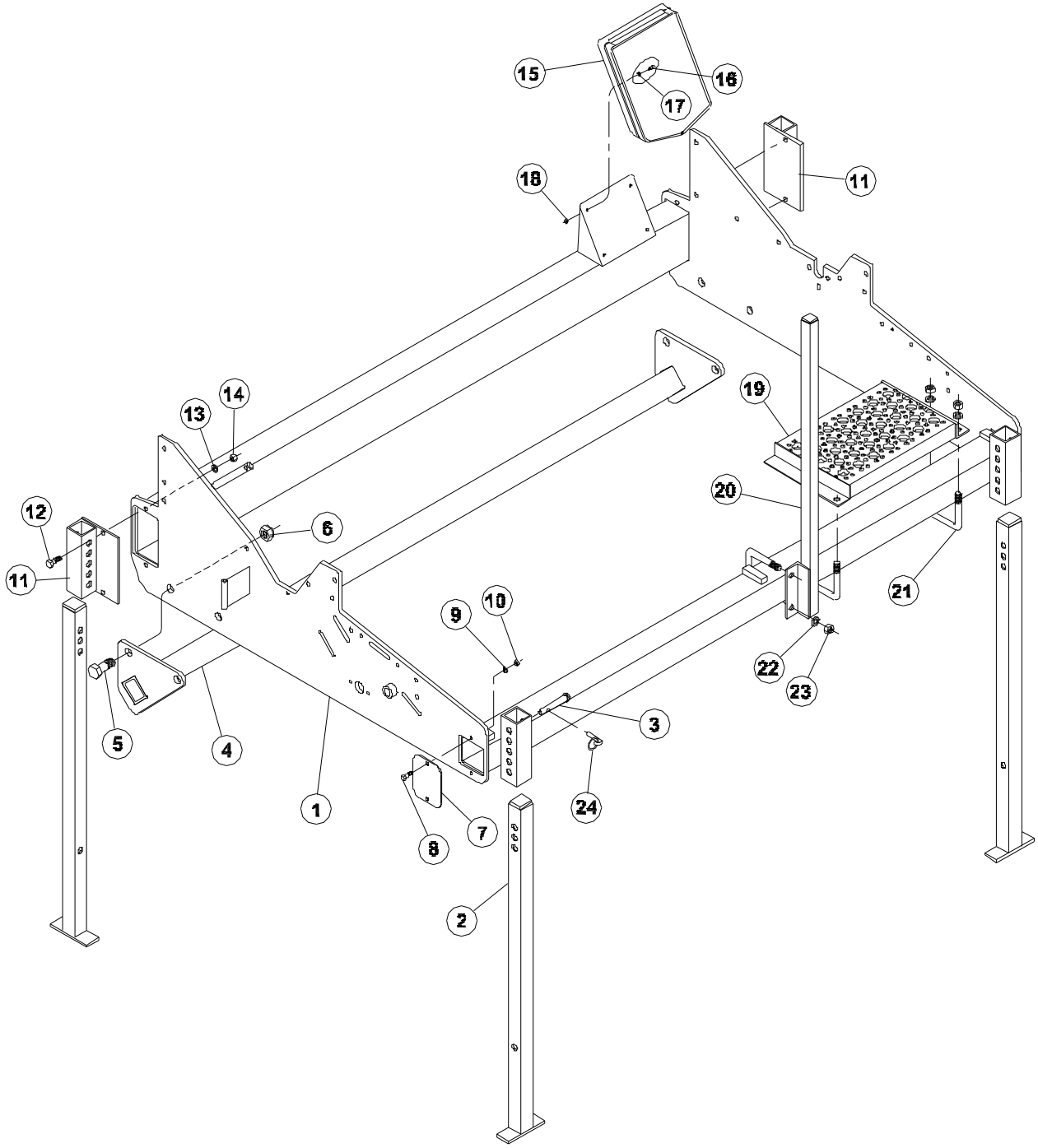
Rate Chart for reference only. Use calibration for exact seed rate.

Seed Type	Seed Rate	C Sprocket Teeth #	Turns of Adjusting Handle / Meter Opening																
			5/8	1 1/4	2	2 1/2	3 1/8	3 3/4	4 3/8	5	5 3/8	6 1/4	7	7 1/2	8 1/8	8 3/4	9 3/8	10
			1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"
Alfalfa	Low	12		2	3	5	6	8	9	11	12	14	15	17	19	21	23	24
	High	20		3	5	8	11	13	16	19	21	24	27	29	33	37	40	43
Alfalfa Coated	Low	12		2	4	6	8	9	11	12	14	17	17	18	20	23	24	26
	High	20		3	7	11	13	16	19	21	25	29	31	32	36	40	43	45
Bahia Grass	Low	12	1	2	2	3	5	6	8	9	10	11	12	14	14	15	17	18
	High	20	1	3	4	5	8	11	13	16	17	19	21	24	25	27	29	32
Bentgrass	Low	12	1	1	2	2	3	4	4	5	5	6	6	7	7	8	8	9
	High	20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15
Bermuda Grass	Low	12		2	4	6	8	9	11	12	14	15	17	20	21	23	24	26
	High	20		3	7	11	13	16	19	21	24	27	31	35	37	40	43	45
Canola	Low	12		1	3	4	6	7	9	10	11	13	14	16	17	18	20	21
	High	20		2	5	8	10	13	15	18	20	22	25	28	30	32	35	37
Centipede	Low	12		2	3	5	7	9	11	12	14	15	17	18	20	21	23	24
	High	20		3	5	8	12	16	19	21	24	27	29	32	35	37	40	43
Clover Alsike	Low	12	1	2	4	5	7	8	10	11	13	15	16	18	19	21	22	24
	High	20	1	4	6	9	12	15	17	20	23	26	29	32	34	37	39	42
Clover Red	Low	12	1	2	4	6	7	9	11	13	15	17	18	20	22	24	25	27
	High	20	1	4	7	10	13	16	19	23	26	29	32	36	39	42	45	48
Kentucky Bluegrass	Low	12		1	1	2	2	3	4	4	5	6	6	7	8	8	9	10
	High	20		1	2	3	4	5	6	7	9	10	11	12	13	15	16	17
KY31 Fescue	Low	12				2	2	3	3	4	4	5	5	5	6	6	7	7
	High	20				3	4	5	6	7	7	8	9	9	10	11	12	13
Love Grass	Low	12	2	3	5	6	8	9	11	12	14	15	16	17	18	20	20	21
	High	20	3	5	8	11	13	16	19	21	24	27	28	29	32	35	36	37
Lespedeza	Low	12	1	2	2	3	4	5	5	6	7	8	8	9	10	11	11	12
	High	20	1	3	4	5	7	8	9	11	12	13	15	16	17	19	20	21
Lespedeza Unhulled	Low	12		2	4	6	8	9	11	14	16	18	20	23	25	27	29	32
	High	20		3	7	11	13	16	20	24	28	32	36	40	44	48	52	56
Millet	Low	12		2	3	5	5	6	8	9	11	12	13	14	15	17	17	18
	High	20		3	5	8	9	11	13	16	19	21	23	24	27	29	31	32
Rape Seed	Low	12		3	5	6	7	8	9	11	12	14	15	17	19	21	23	26
	High	20		5	8	11	12	14	17	19	21	24	27	30	33	37	41	46
Ryegrass Annual	Low	12		1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	High	20		1	2	4	5	7	9	11	12	14	16	18	19	21	23	24
Ryegrass Perenial	Low	12		1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	High	20		1	2	4	6	7	9	11	13	15	16	18	20	21	23	24
Sudan Grass	Low	12	1	3	4	6	8	10	12	14	15	17	19	20	22	24	26	28
	High	20	1	5	8	11	14	17	21	24	27	31	33	36	39	43	46	49
Switchgrass	Low	12		2	3	4	5	6	8	11	12	14	15	16	18	20	22	24
	High	20		3	5	7	9	11	15	19	21	24	26	28	31	35	39	43
Wheatgrass Tall	Low	12						1	1	2	2	2	2	2	3	3	4	5
	High	20						1	2	3	3	4	4	4	5	6	7	9



Sprocket A	#874669	2050 18T
Sprocket B	#935080	2050 20T w/ 1" Hub
	#431825	Chain 2050 x 47 Pitches
	#430983	Chain Connector 2050
Sprocket C	#935080	2050 20T w/ 1" Hub
OR	#935072	2050 12T w/1" Hub
Sprocket D	#954362	2050 44T w/1" Hub
	#431841	Chain 2050 x 37 Pitches
	#430983	Chain Connector 2050
	#431270	Chain Offset Link 2050

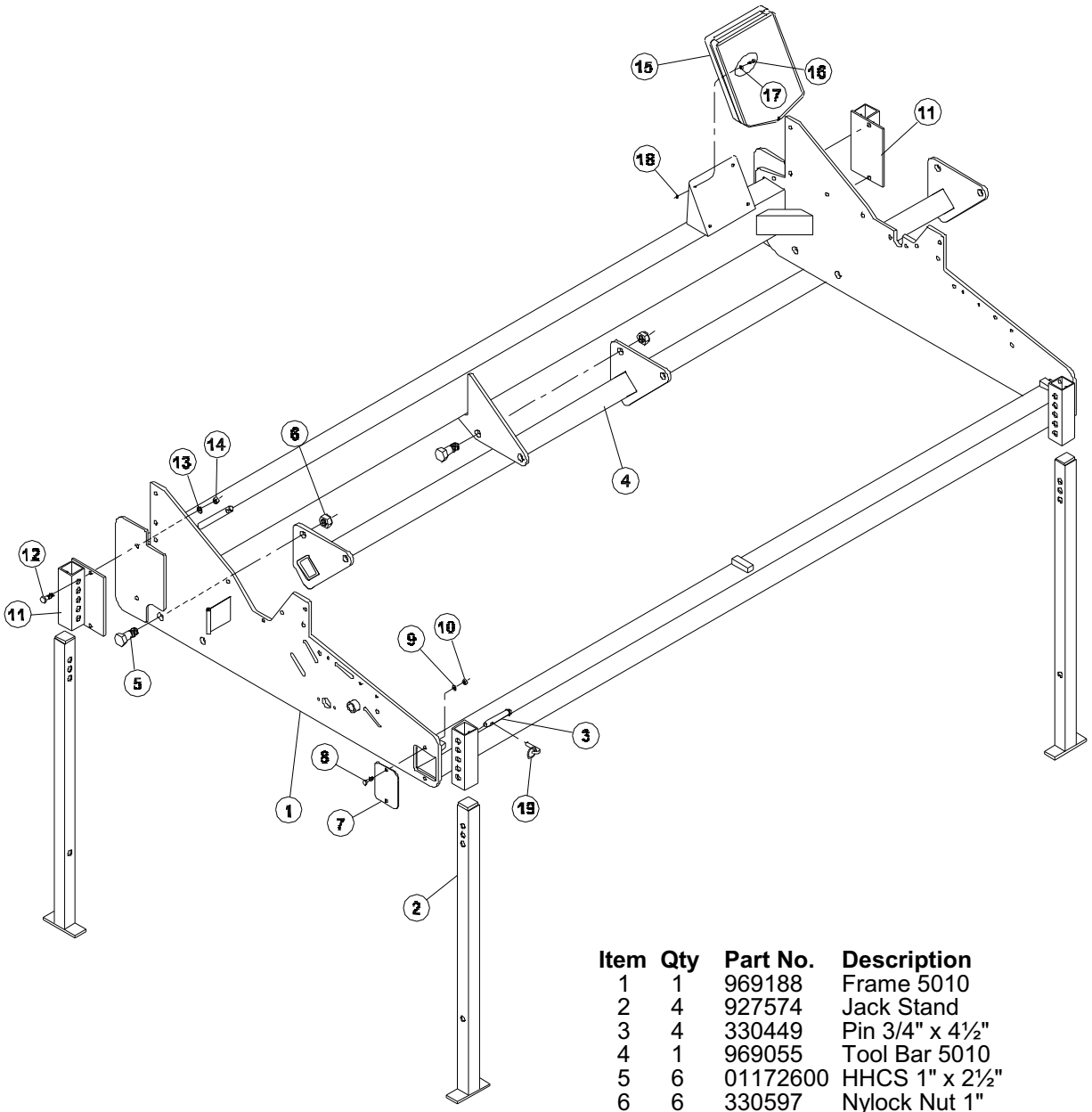
5007 Frame



Item	Qty	Part No.	Description
1	1	968248	Frame
2	4	972574	Jack Stand
3	4	330449	Pin 3/4" x 4½"
4	1	968495	Tool Bar
5	4	01172600	HHCS 1" x 2½"
6	4	330597	Nylock Nut 1"
7	2	267377	Frame Cap 4 x 4
8	4	01158500	HHCS 3/8" x 1 1/4"
9	4	330043	Lock Washer 3/8"
10	4	330035	Hex Nut 3/8"
11	2	969808	Jack Stand Holder
12	4	01180900	HHCS ½" x 1 1/4"

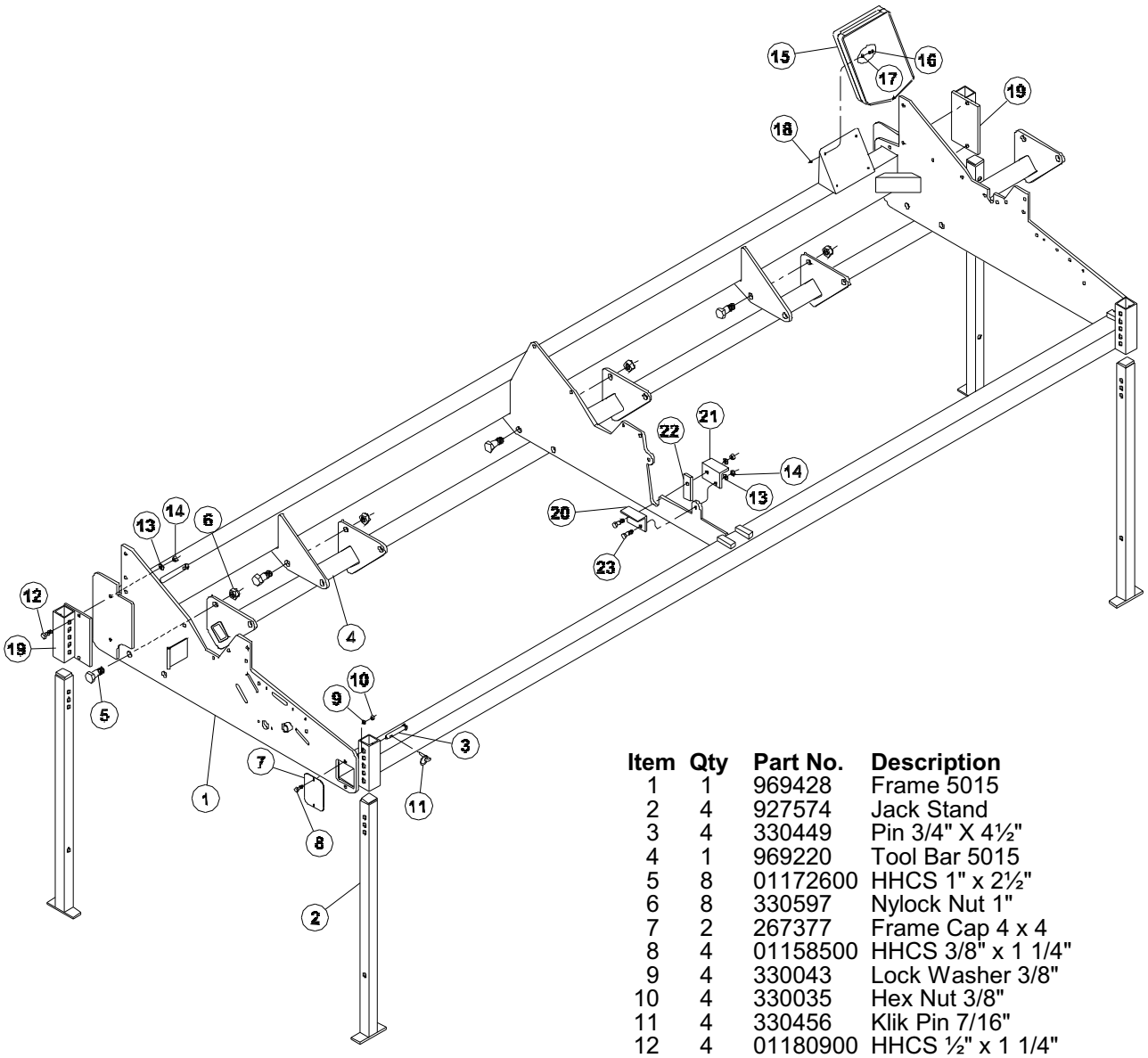
Item	Qty	Part No.	Description
13	4	330142	Lock Washer ½"
14	4	330134	Hex Nut ½"
15	1	607416	Manual Holder
16	4	01057900	HHCS 1/4" x 3/4"
17	4	02016400	Flat Washer 1/4"
18	4	330522	Nylock Nut 1/4"
19	1	969238	Step
20	1	969246	Grab Bar
21	3	337147	U-bolt 5/8" x 4" x 5"
22	6	330878	Lock Washer 5/8"
23	6	330571	Hex Nut 5/8"
24	4	330456	Klik Pin 7/16"

5010 Frame



Item	Qty	Part No.	Description
1	1	969188	Frame 5010
2	4	927574	Jack Stand
3	4	330449	Pin 3/4" x 4½"
4	1	969055	Tool Bar 5010
5	6	01172600	HHCS 1" x 2½"
6	6	330597	Nylock Nut 1"
7	2	267377	Frame Cap 4 x 4
8	4	01158500	HHCS 3/8" x 1 1/4"
9	4	330043	Lock Washer 3/8"
10	4	330035	Hex Nut 3/8"
11	2	969808	Jack Stand Holder
12	4	01180900	HHCS ½" x 1 1/4"
13	4	330142	Lock Washer ½"
14	4	330134	Hex Nut ½"
15	1	607416	Manual Holder
16	4	01057900	HHCS 1/4" x 3/4"
17	4	02016400	Flat Washer 1/4"
18	4	330522	Nylock Nut 1/4"
19	4	330456	Klik Pin 7/16"

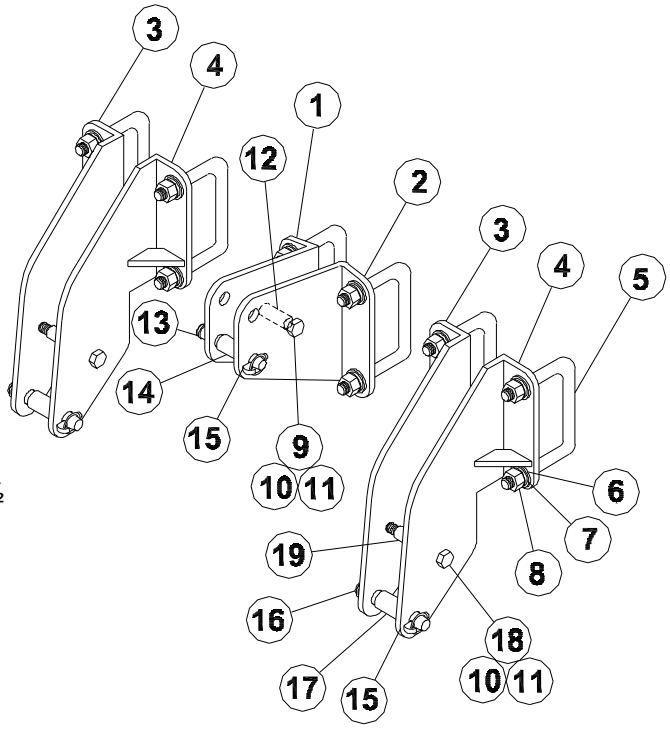
5015 Frame

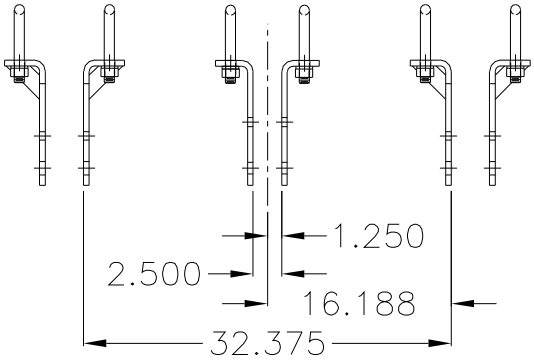


Item	Qty	Part No.	Description
1	1	969428	Frame 5015
2	4	927574	Jack Stand
3	4	330449	Pin 3/4" X 4½"
4	1	969220	Tool Bar 5015
5	8	01172600	HHCS 1" x 2½"
6	8	330597	Nylock Nut 1"
7	2	267377	Frame Cap 4 x 4
8	4	01158500	HHCS 3/8" x 1 1/4"
9	4	330043	Lock Washer 3/8"
10	4	330035	Hex Nut 3/8"
11	4	330456	Klik Pin 7/16"
12	4	01180900	HHCS ½" x 1 1/4"
13	6	330142	Lock Washer ½"
14	6	330134	Hex Nut ½"
15	1	607416	Manual Holder
16	4	01057900	HHCS 1/4" x 3/4"
17	4	02016400	Flat Washer 1/4"
18	4	330522	Nylock Nut 1/4"
19	2	969808	Jack Stand Holder
20	1	284737	Walkboard Support Right
21	1	284729	Walkboard Support Left
22	1	231787	Walkboard Support Tab
23	2	335240	HHCS ½" x 1 3/4"

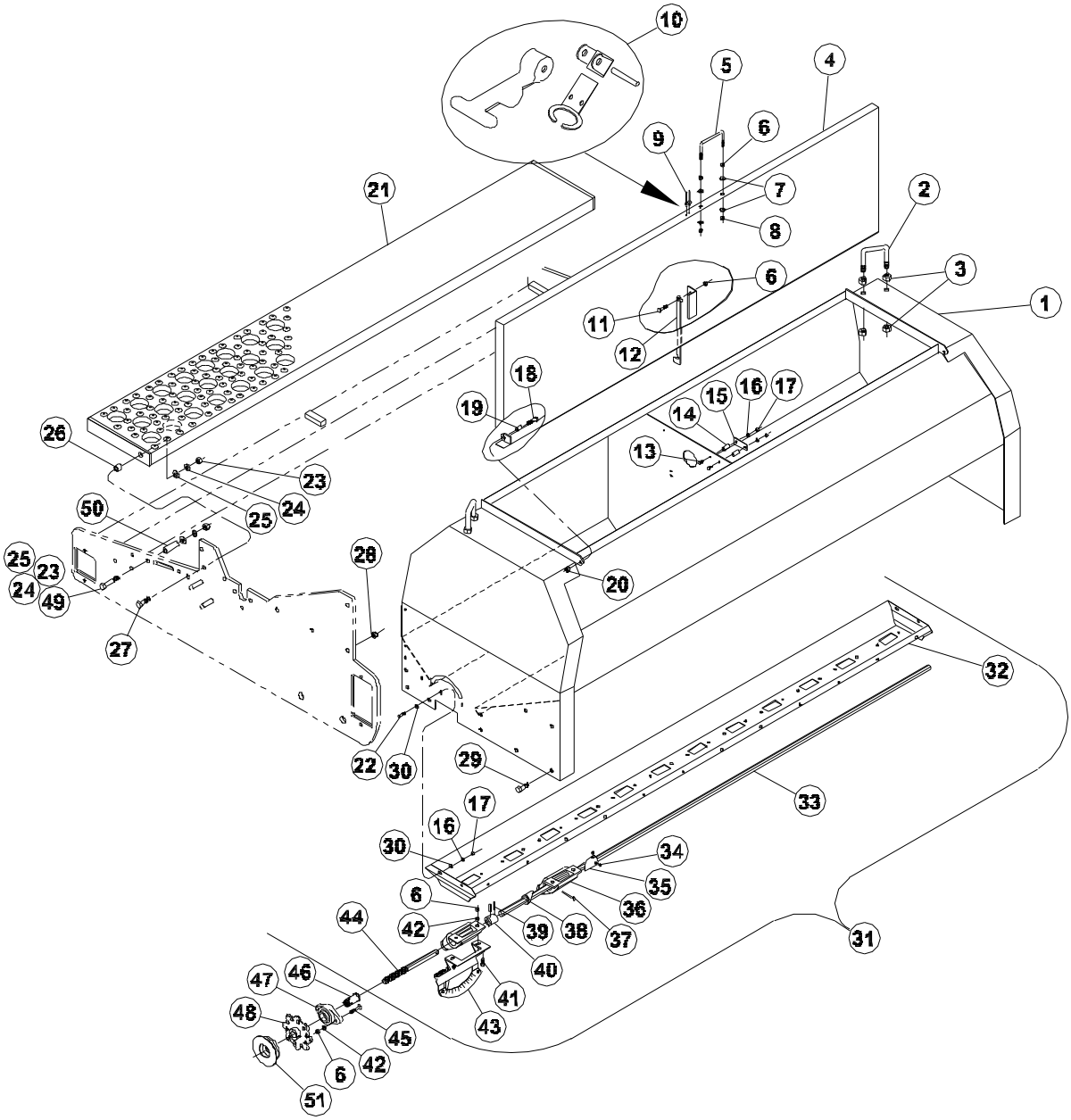
5000 3 Point Hitch

Item	Qty	Part No.	Description
1	1	230243	3 Pt Bracket Center Right
2	1	230235	3 Pt Bracket Center Left
3	2	968354	3 Pt Bracket Outside Right
4	2	968347	3 Pt Bracket Outside Left
5	6	338343	U-bolt 7/8" x 7" x 6"
6	12	332296	Flat Washer 7/8"
7	12	331165	Lock Washer 7/8"
8	12	331157	Hex Nut 7/8"
9	1	330233	HHCS 3/4" x 4½"
10	3	330332	Lock Washer 3/4"
11	3	330290	Hex Nut 3/4"
12	1	153965	Spacer 2½"
13	1	608745	Pin 1" x 3 9/16"
14	1	603571	Bushing 1 1/4 x 1 x 1 15/16
15	3	330456	Klik Pin 7/16"
16	2	336271	Pin 1 1/8" x 6"
17	2	603563	Bushing 1 7/16 x 1 1/8 x 2½
18	2	330266	HHCS 3/4" x 5½"
19	2	153973	Spacer 3 3/8"





5000 Grain Box



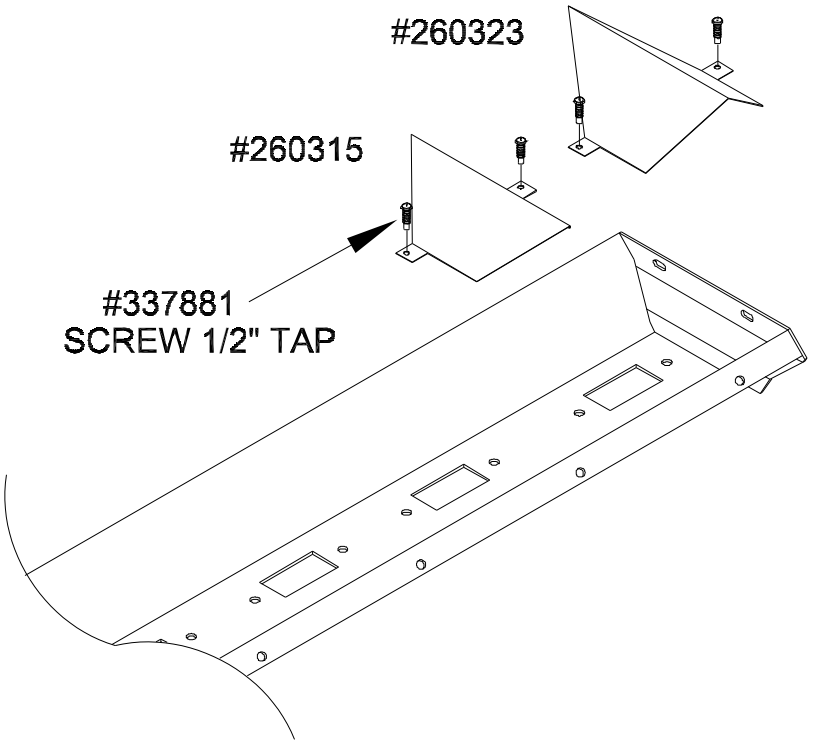
5000 Grain Box

Item	Part No.	Description
1	968404	Grain Box 7'
	968842	Grain Box 10'
	969287	Grain Box 15'
2	335737	Box Handle
3	330571	Hex Nut 5/8"
4	968396	Grain Box Lid 7'
	968867	Grain Box Lid 10'
	969303	Grain Box Lid 15'
5	308122	Box Lid Handle
6	330811	Hex Nut 5/16"
7	330852	Flat Washer 5/16"
8	331611	Nylock Nut 5/16"
9	601989	Pop Rivet 3/16" x 1/4"
10	570341	Lid Latch w/Hook
11	01011600	HHCS 5/16" x 1 1/4"
12	221317	Lid Latch Bracket
13	335133	HHCS 1/4" x 1 3/4"
14	145144	Lid Latch Spool
15	190942	Lid Latch
16	330050	Lock Washer 1/4"
17	332205	Hex Nut 1/4"
18	335703	HHCS 3/8" x 1½"
19	149385	Lid Bushing
20	330837	Nylock Nut 3/8"
21	968370	Walkboard 7'
	969089	Walkboard 10'
	969436	Walkboard 15'
22	331835	HHCS 1/4" x 1½"
23	330134	Hex Nut ½"
24	330142	Lock Washer ½"
25	330159	Flat Washer ½"
26	970426	Walkboard Bushing
27	335422	HHCS ½" x 2½"
28	331363	Nylock Nut ½"
29	01180900	HHCS ½" x 1 1/4"

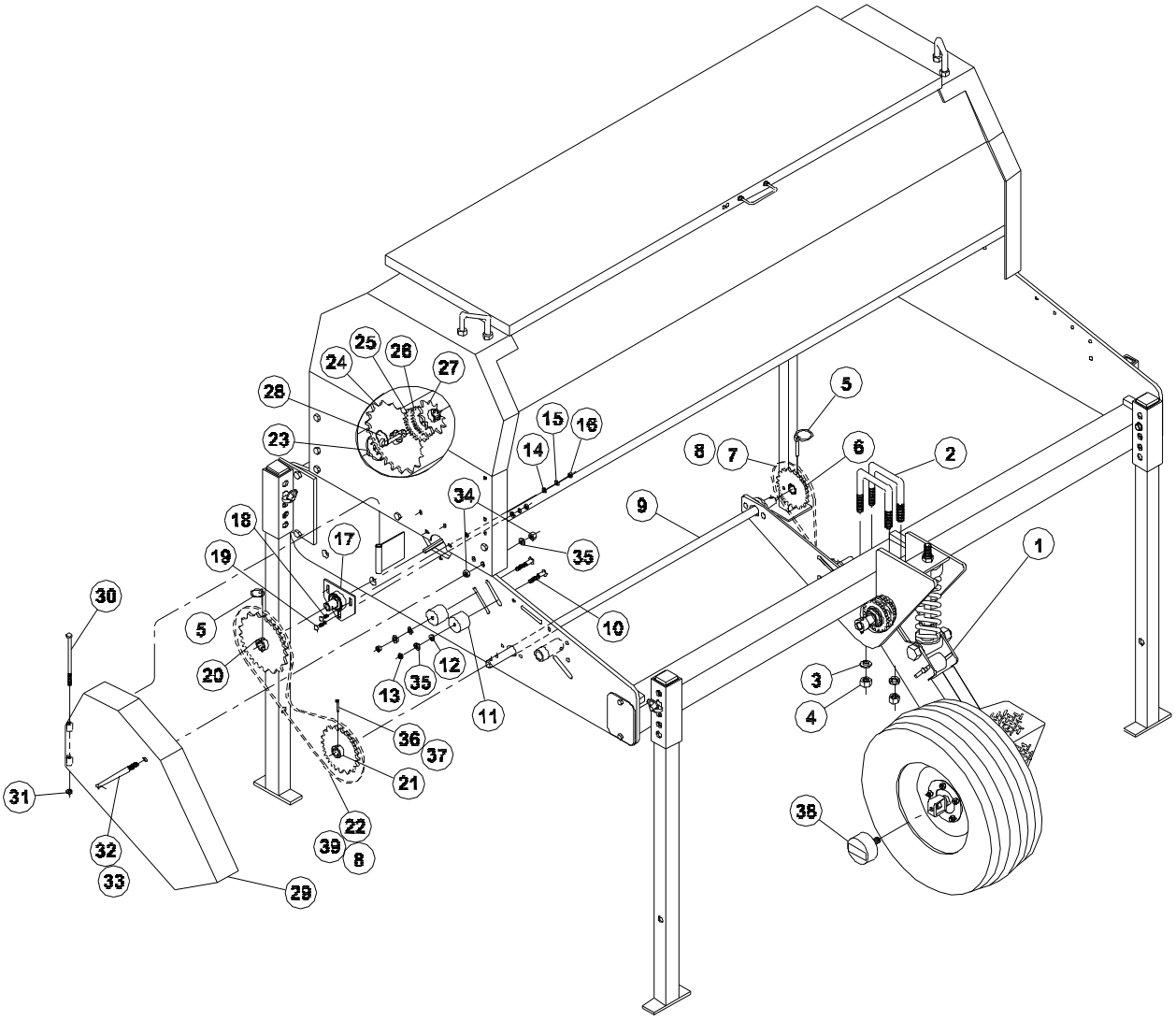
Item	Part No.	Description
30	02016400	Flat Washer 1/4"
31		Box Bottom Assembly Includes #32-45
	874453	7' x 7½" & 6 2/3"
	874933	10' x 7½"
	874925	10' x 6 2/3"
	877423	15' x 6 2/3"
	875062	15' x 7½"
32		Box Bottom
	968412	7' x 7½" & 6 2/3"
	969071	10' x 7½"
	969063	10' x 6 2/3"
	972901	15' x 6 2/3"
	969212	15' x 7½"
33	311779	Hex Shaft 7'
	311399	Hex Shaft 10'
	311928	Hex Shaft 15'
34	334516	Set Screw 1/4-28 x 1/4 Cone
35	550517	Wobble Slot Adj Slide Long
36	550483	Cast Seed Cup
37	601716	Wobble Slot Lock Bolt Pin
38	550525	Wobble Slot Half w/Groove
39	337485	Roll Pin 3/16" x 1 1/4"
40	141895	Shaft Coupler
41	01144500	HHCS 5/16" x 3/4"
42	330845	Lock Washer 5/16"
43	875518	Seed Gauge - Front Mount
44	310888	Hex Adjustment Shaft
45	01261700	Carriage Bolt 5/16" x 1½"
46	312785	Adjustment Spool
47	03001500	Bearing 1" Flange
48	968966	Adjustment Handle
49	334300	HHCS ½" x 3½"
50	146738	Walkboard Spool
51	972851	Adjustment Lock Plate

Seed Diverters

5007 x 6 2/3"	2 -	#260323 &
	9 -	#260315
5007 x 7½"	2 -	#260323 &
	9 -	#260315
5010 x 6 2/3"	17 -	#260315
5010 x 7½"	15 -	#260323
5015 x 6 2/3"	26 -	#260315
5015 x 7½"	23 -	#260323



5000 Drive

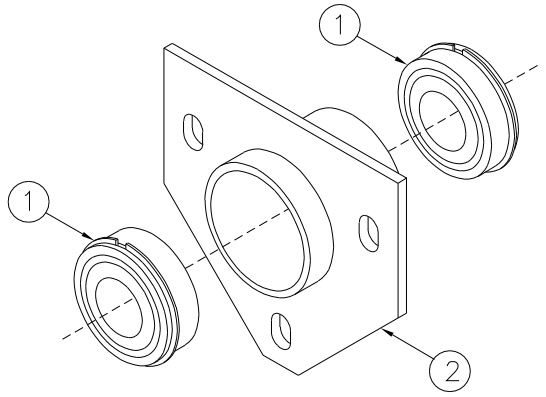


Item	Qty	Part No.	Description
1	1	874420	Drive Wheel Assembly
2	2	333591	U-Bolt 3/4" x 4" x 5½"
3	4	330332	Lock Washer 3/4"
4	4	330290	Hex Nut 3/4"
5	2	338392	Klik Pin 1/4" -1 3/4" Ring
6	1	935098	Sprocket 2050 25T -1" Hub
7	1	431825	Chain 2050 x 47 Pitch
8	3	430983	Chain Connector 2050
9	1	311811	Drive Shaft 7'
	1	311894	Drive Shaft 10'
	1	311977	Drive Shaft 15'
10	2	335323	Carriage Bolt ½" x 3"
11	2	571273	Nylon Roller
12	2	330159	Flat Washer ½"
13	2	331363	Nylock Nut ½"
14	3	330852	Flat Washer 5/16"
15	3	330845	Lock Washer 5/16"
16	3	330811	Hex Nut 5/16"
17	1	865758	Drive End Bearing Bracket
18	2	01047000	Carriage Bolt 5/16" x 1"
19	1	01261700	Carriage Bolt 5/16" x 1½"

Item	Qty	Part No.	Description
20	1	935114	Sprocket 2050 37T -1" Hub
21	1	935106	Sprocket 2050 30T -1" Hub
22	1	431023	Chain 2050 x 41 Pitch
23	1	10373900	Grommet
24	1	954362	Sprocket 2050 44T -1" Hub
25	1	935080	Sprocket 2050 20T -1" Hub
26	1	954131	Sprocket 2050 18T -1" Hub
27	1	935072	Sprocket 2050 12T -1" Hub
28	1	330456	Klik Pin 7/16"
29	1	968503	Chain Guard
30	1	335109	HHCS 3/8" x 7"
31	1	330837	Nylock Nut 3/8"
32	1	969360	Chain Guard Pin
33	1	330928	Klik Pin 3/16"
34	2	330134	Hex Nut ½"
35	3	330142	Lock Washer 1/2"
36	1	335349	Clevis Pin 1/4" x 1 5/8'
37	1	337071	Cotter Pin 3/32" x ½"
38	1	609453	Acre Counter
39	1	432534	Chain 2050 x 3P

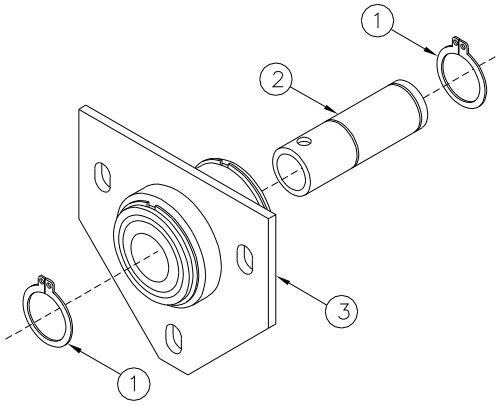
Drive End Bracket & Bearing
#865758

Item	Part No.	Description
1	605766	External Snap Ring
2	310029	Seed Shaft Drive Adaptor
3	865741	Drive End Bracket & Bearing Assembly



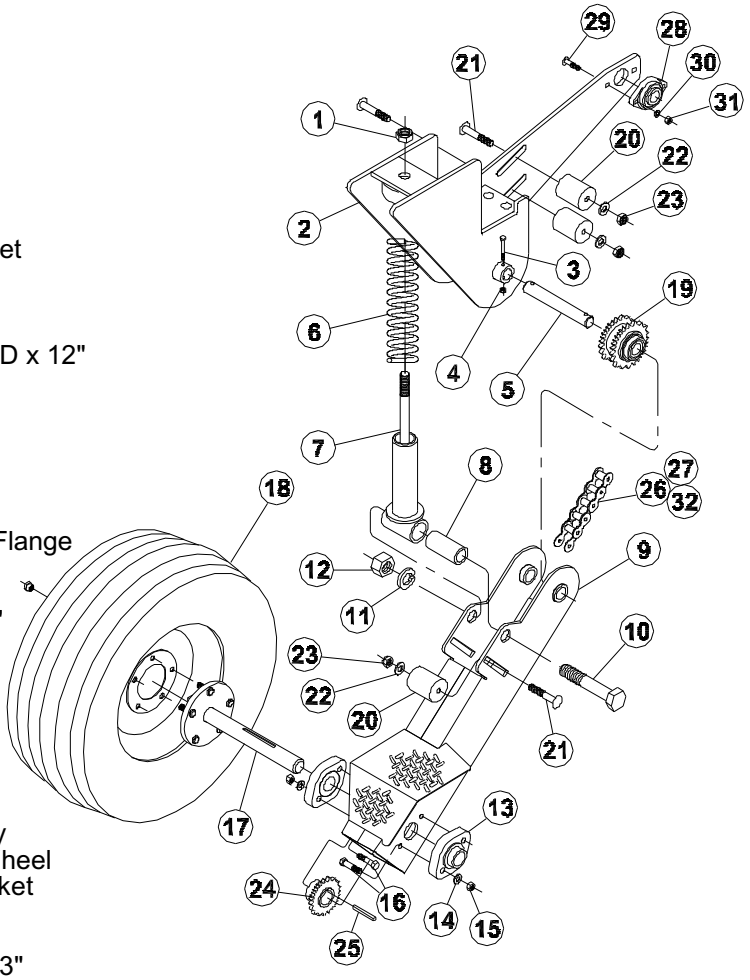
Drive End Bracket
#865741

Item	Part No.	Description
1	03003100	Bearing 1" w/Snap Ring
2	957993	Drive End Bracket

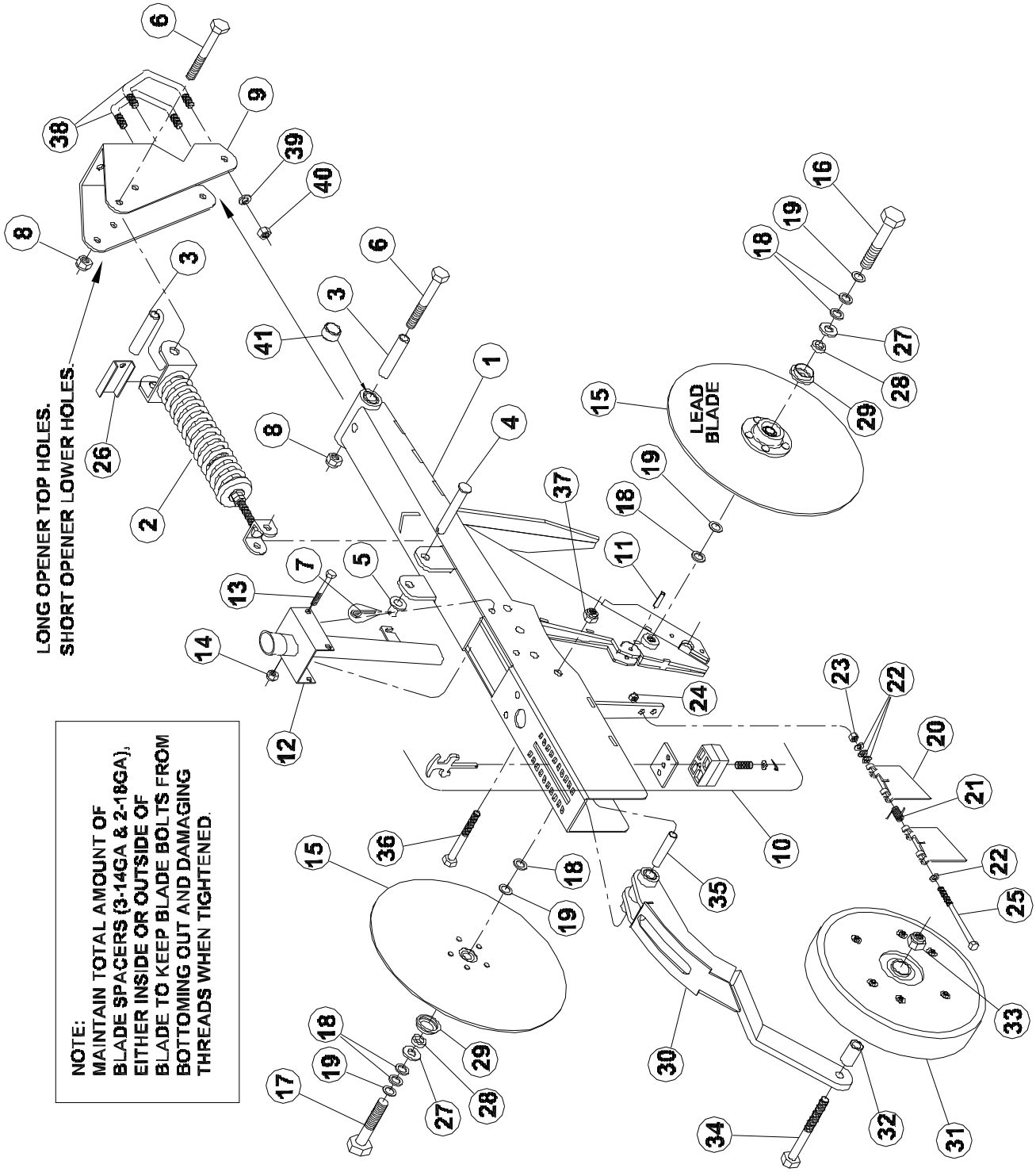


Drive Wheel Assembly
#874420

Item	Qty	Part No.	Description
1	1	330316	Nylock Nut 3/4"
2	1	968271	Drive Wheel Bracket
3	2	330514	HHCS 1/4" x 2"
4	2	330522	Nylock Nut 1/4"
5	1	311787	Drive Shaft
6	1	500686	Spring ½" w x 3" OD x 12"
7	1	968289	Spring Bar
8	1	152538	Pivot Shaft
9	1	968263	Drive Wheel Arm
10	1	330357	HHCS 1" x 5½"
11	1	330399	Lock Washer 1"
12	1	330381	Hex Nut 1"
13	2	400754	Bearing 1 1/4" 2B Flange
14	4	330043	Lock Washer 3/8"
15	4	330035	Hex Nut 3/8"
16	4	335877	HHCS 3/8" x 1 3/4"
17	1	968487	Spindle
18	1	531160	Tire 23 x 8.5 12 Ply 12" x 7" 5 Bolt Wheel
19	1	874669	Double Idler Sprocket 2050 18T-19T
20	3	571273	Nylon Idler
21	3	335323	Carriage Bolt ½" x 3"
22	3	330159	Flat Washer ½"
23	3	331363	Nylock Nut ½"
24	1	968735	Sprocket 2050 15T -1 1/4" Hub
25	1	10876100	Key
26	1	432870	Chain 2050 x 43 Pitches
27	1	430983	Chain Connector 2050
28	1	03001500	Bearing 1" Flange
29	2	01261700	Carriage Bolt 5/16" x 1½"
30	2	330845	Lock Washer 5/16"
31	2	330811	Hex Nut 5/16"
32	1	431270	Chain 2050 Offset Link

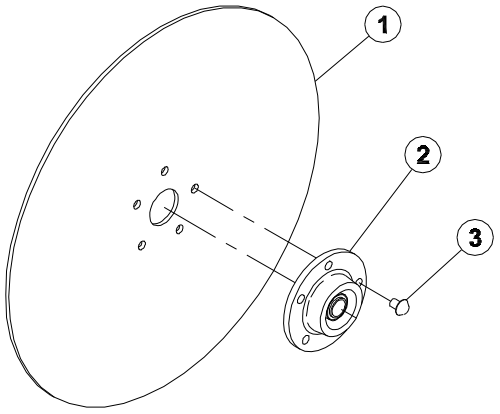


5000 Min-Till Opener



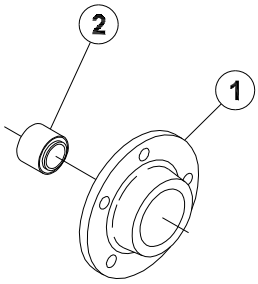
5000 Min-Till Opener

Item	Part No.	Description
Opener	Assembly	Items #25,#37,#39, #47 are **NOT** included in assembly
	874735	Right Long
	874743	Left Long
	874750	Right Short
	874768	Left Short
1	967711	Opener Long Right (Shown)
	967984	Opener Short Right
	967729	Opener Long Left
	967992	Opener Short Left
2	874727	Spring Bracket
3	153601	Bushing -Opener Bracket
4	608752	Clevis Pin ½" x 3"
5	330159	Flat Washer ½"
6	338053	HHCS ½" x 5" Gr 8
7	330936	Cotter Pin 1/8" x 1"
8	331363	Nylock Nut ½"
9	968800	Opener Mounting Bracket
10	609420	Press Wheel Adjustment
11	338244	Roll Pin 1/4" x 1"
12	968818	Feed Tube Bracket
13	338251	HHCS 1/4" x 3½"
14	330522	Nylock Nut 1/4"
15	874032	Blade Assembly
16	01071000	HHCS 5/8" X 2" Right Hand
17	337444	HHCS 5/8 X 2" Left Hand
18	330720	Mach Bushing1 1/8"x14gax 5/8"
19	333351	Mach Bushing1 1/8 x18gax 5/8"
20	257048	Scraper Plate
21	502153	Scraper Spring Right
	502146	Scraper Spring Left
22	330852	Flat Washer 5/16"
23	330035	Hex Nut 3/8"
24	330837	Nylock Nut 3/8"
25	332965	HHCS 3/8" x 5½"
26	154013	Spring Adjustment Cap
27	330183	Flat Washer 5/8"
28	606558	Bushing 21/32 x 1 x 9/32
29	400747	Seal
	874321	Press Wheel Assembly 2 x 13 Includes #30-#37
30	968131	Press Wheel Bracket Single
31	531095	Press Wheel 2 x 13
32	153692	Press Wheel Spacer Bushing
33	01572700	Nylock Nut 5/8"
34	335182	HHCS 5/8" x 4½"
35	153593	Press Wheel Bushing
36	330092	HHCS ½" x 4"
37	331363	Nylock Nut ½"
38	308726	Clamp ½" x 4 3/4" (without coulters)
	331926	HHCS ½" x 2" (with Coulters)
39	330142	Lock Washer ½"
40	330134	Hex Nut ½"
41	605907	Spring Bushing 1" ID Included in Item #1



#859090
Blade Assembly

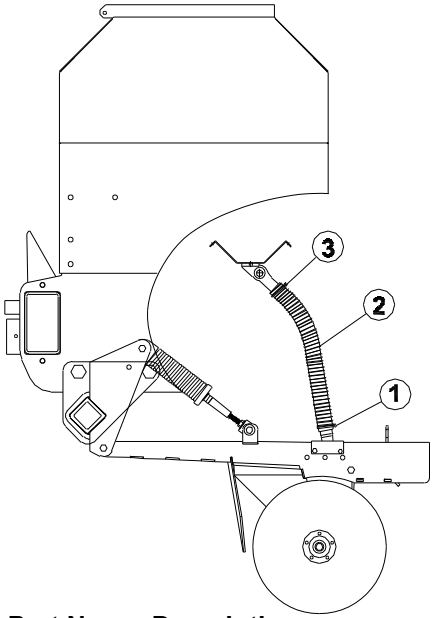
Item	Part No.	Description
1	501973	Blade 15" 3mm -.047 Concave
2	636860	Bearing & Flange Assembly
3	603084	Rivet 5/16" x 5/8" Button Head



#636860
Bearing & Flange Assembly

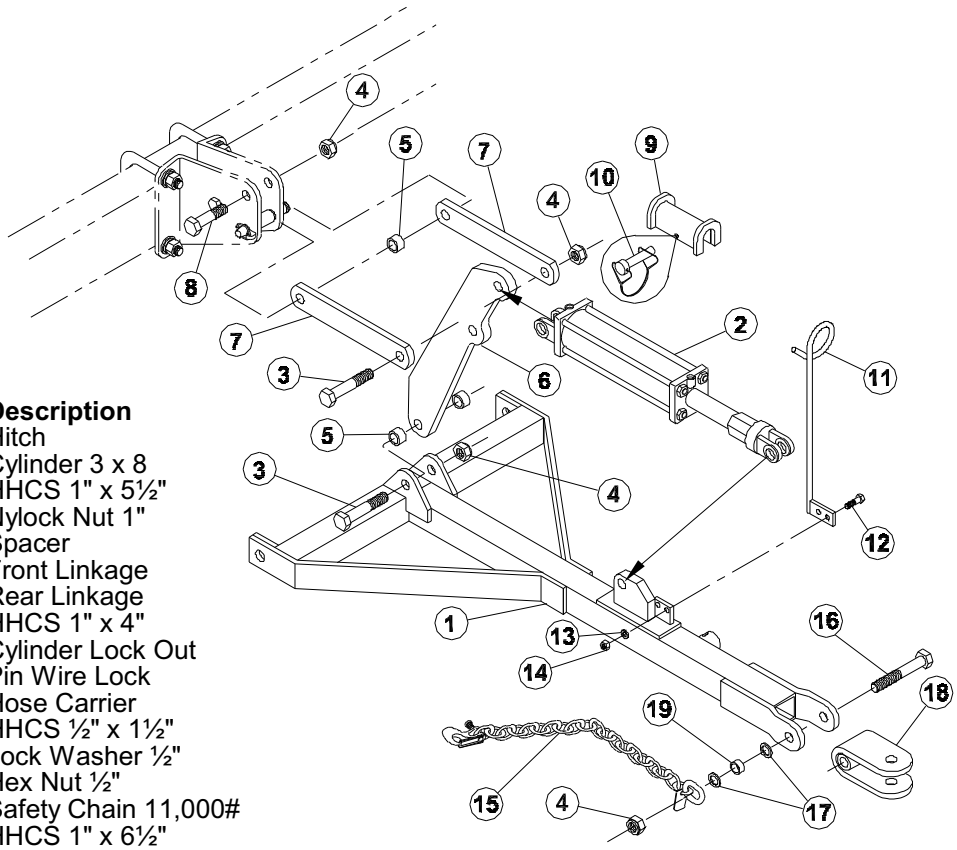
Item	Part No.	Description
1	551234	Bearing Flange
2	401042	Bearing

5000 Feed Tubes



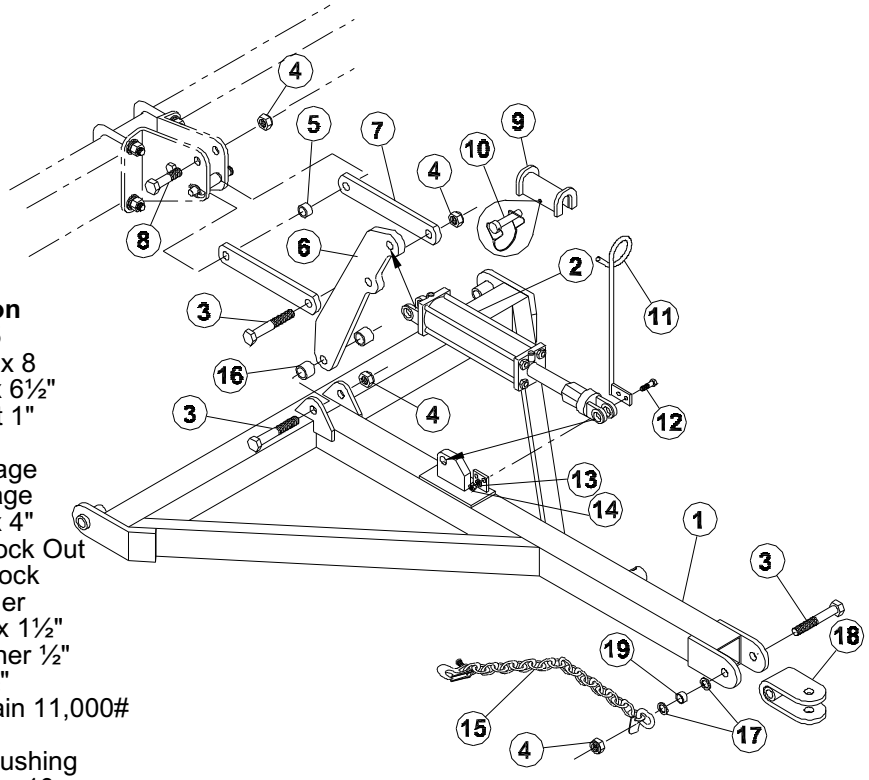
Item	Part No.	Description
1	603027	Clamp 1 5/8" x .172
2	571612	Feed Tube 40 Convolutions
3	604777	Clamp 1 3/8" x .162

Pull Bar



5007

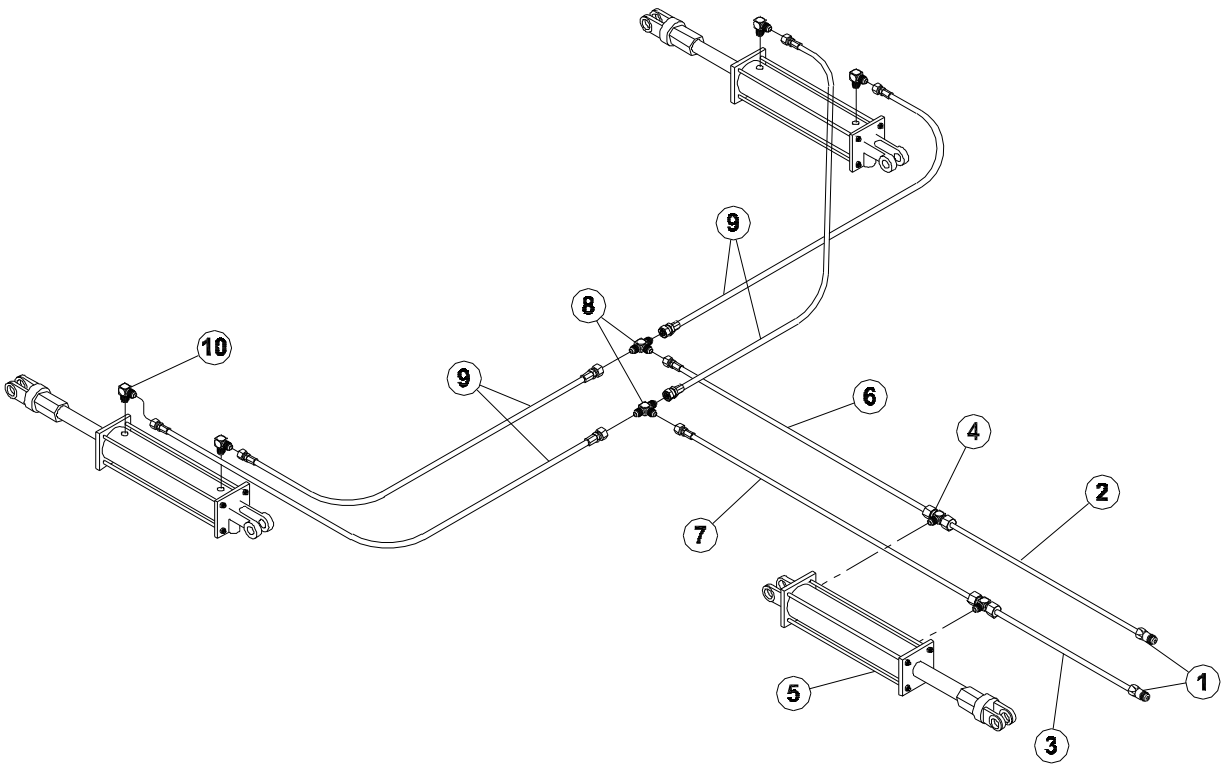
Item	Qty	Part No.	Description
1	1	968255	Hitch
2	1	469924	Cylinder 3 x 8
3	2	330357	HHCS 1" x 5½"
4	4	330597	Nylock Nut 1"
5	3	19066000	Spacer
6	1	230383	Front Linkage
7	2	230532	Rear Linkage
8	1	334870	HHCS 1" x 4"
9	1	964742	Cylinder Lock Out
10	1	00233700	Pin Wire Lock
11	1	935924	Hose Carrier
12	2	01147800	HHCS ½" x 1½"
13	2	330142	Lock Washer ½"
14	2	330134	Hex Nut ½"
15	1	433938	Safety Chain 11,000#
16	1	333732	HHCS 1" x 6½"
17	2	335166	Machine Bushing ½" x 1" x 10ga
18	1	900837	Clevis
19	1	154294	Bushing



5015 & 5010

Item	Qty	Part No.	Description
1	1	969733	Hitch 5015
2	1	469924	Cylinder 3 x 8
3	3	333732	HHCS 1" x 6½"
4	4	330597	Nylock Nut 1"
5	1	19066000	Spacer
6	1	230383	Front Linkage
7	2	230532	Rear Linkage
8	1	334870	HHCS 1" x 4"
9	1	964742	Cylinder Lock Out
10	1	00233700	Pin Wire Lock
11	1	935924	Hose Carrier
12	2	01147800	HHCS ½" x 1½"
13	2	330142	Lock Washer ½"
14	2	330134	Hex Nut ½"
15	1	433938	Safety Chain 11,000#
16	2	154245	Spacer
17	2	335166	Machine Bushing 1½" x 1" x 10 ga
18	1	900837	Clevis
19	1	154294	Bushing

Pull Bar Hydraulics



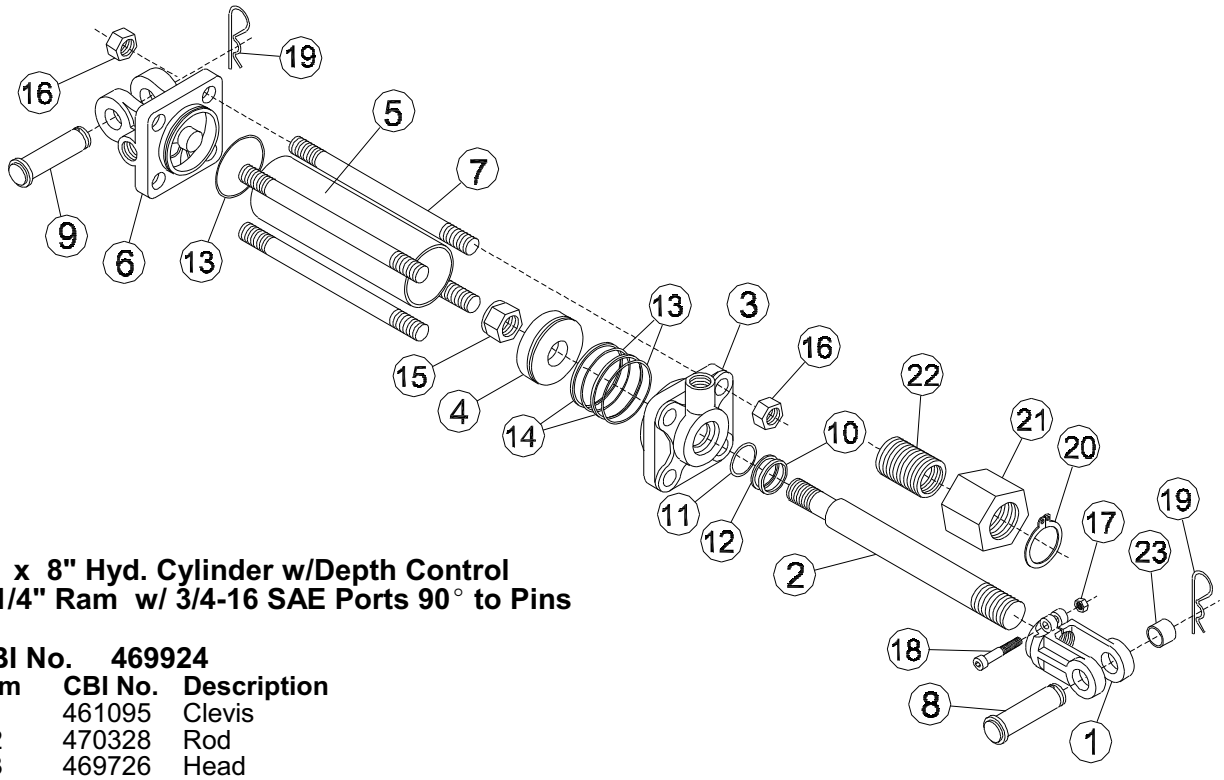
5007

Item	Qty	Part No.	Description
1	2	465385	Coupler 3/4" FOR
2	1	473066	Hose 3/8" x 100" 3/4" JICF Sw x 3/4" MOR
3	1	473058	Hose 3/8" x 90" 3/4" JICF Sw x 3/4" MOR
4	2	465260	Tee 3/4" MOR x 3/4" JICM
5	3	469924	Cylinder 3 x 8
6	1	473090	Hose 3/8" x 36" 3/4" JICF Sw
7	1	473108	Hose 3/8" x 46" 3/4" JICF Sw
8	2	465278	Tee 3/4" JICM
9	4	473116	Hose 3/8" x 128" 3/4" JICF Sw
10	4	465310	Adapter 90D 3/4" MOR x 3/4" JICM

5010 & 5015

Item	Qty	Part No.	Description
1	2	465385	Coupler 3/4" FOR
2	1	473066	Hose 3/8" x 100" 3/4" JICF Sw x 3/4" MOR
3	1	473058	Hose 3/8" x 90" 3/4" JICF Sw x 3/4" MOR
4	2	465260	Tee 3/4" MOR x 3/4" JICM
5	3	469924	Cylinder 3 x 8
6	1	473090	Hose 3/8" x 36" 3/4" JICF Sw
7	1	473108	Hose 3/8" x 46" 3/4" JICF Sw
8	2	465278	Tee 3/4" JICM
9	4	469460	Hose 3/8" x 144" 3/4" JICF Sw **5010**
	4	473124	Hose 3/8" x 178" 3/4" JICF Sw **5015**
10	4	465310	Adapter 90D 3/4" MOR x 3/4" JICM

Hydraulic Cylinder

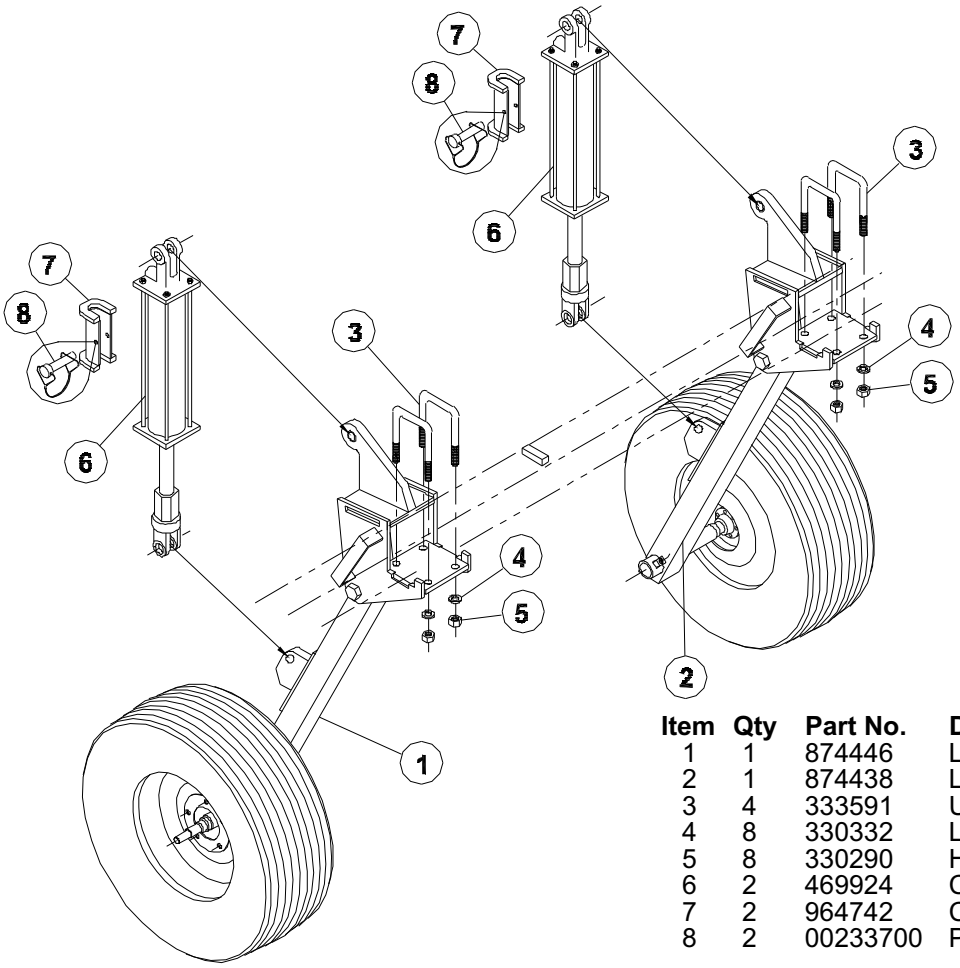


3" x 8" Hyd. Cylinder w/Depth Control
1 1/4" Ram w/ 3/4-16 SAE Ports 90° to Pins

CBI No. 469924

Item	CBI No.	Description
1	461095	Clevis
2	470328	Rod
3	469726	Head
8	463133	Clevis Pin
9	463133	Clevis Pin
10	460329	Rod Wiper
13	460923	Piston O-ring
14	460980	Piston Back-up
15	461285	Piston Nut
16	460972	Tie Rod Nut
17	460691	Clevis Nut
18	460477	Capscrew
19	460469	Cotter Pin
20	463398	Retaining Ring
21	463380	Outside Collar
22	461525	Inside Collar
23	466078	Bushing
	461079	Seal Kit

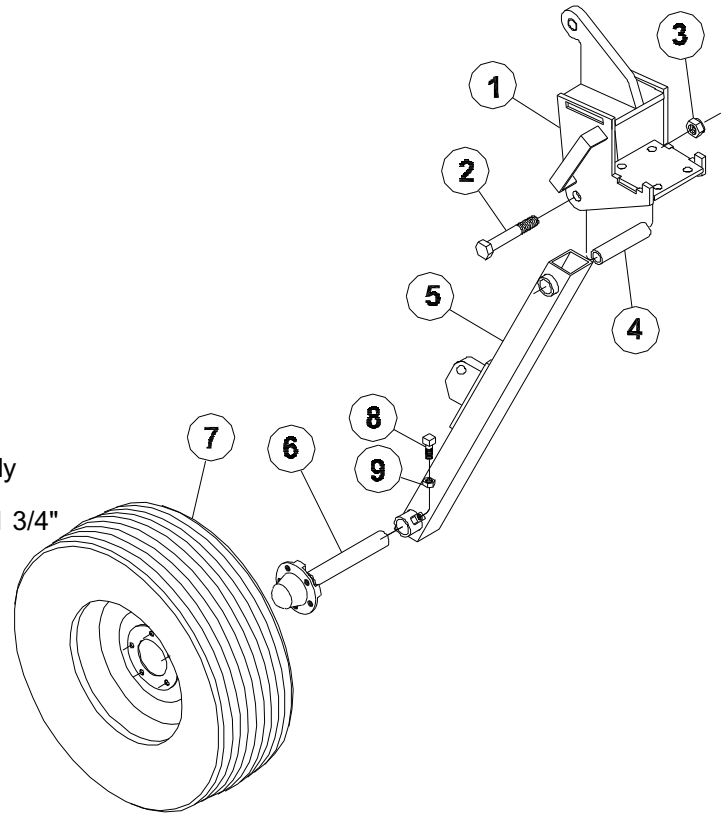
5000 Lift Arms 5007



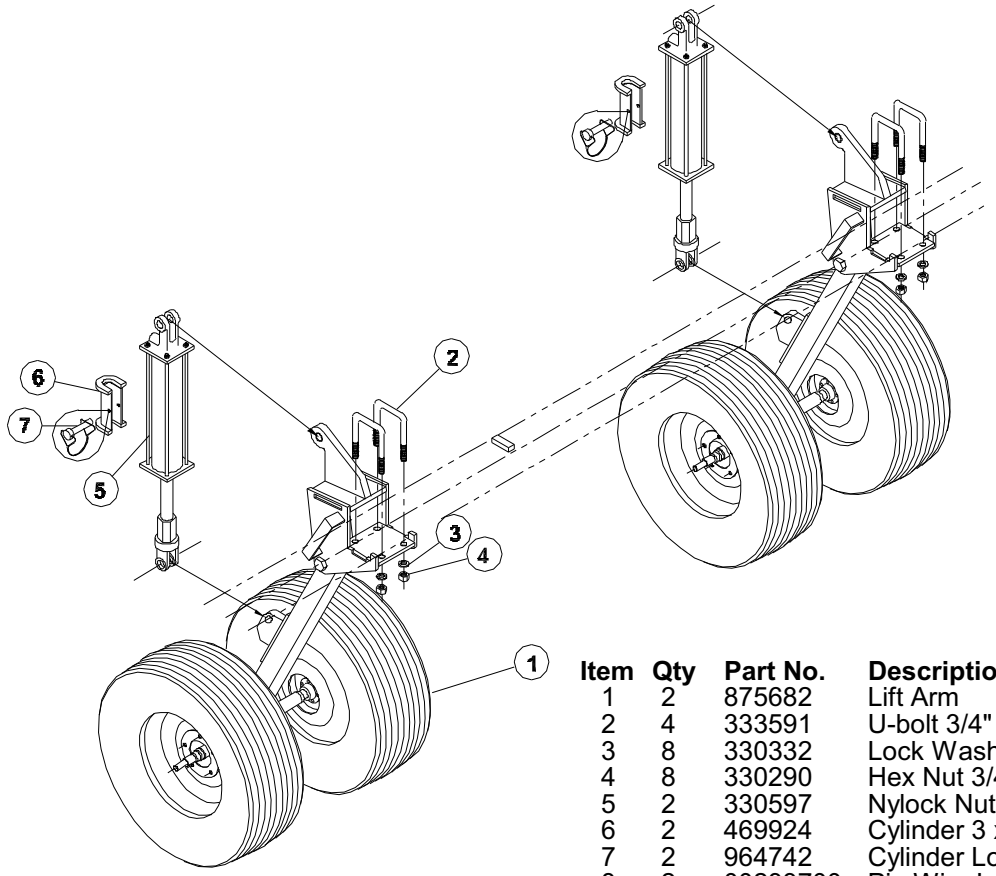
Item	Qty	Part No.	Description
1	1	874446	Lift Arm Right
2	1	874438	Lift Arm Left
3	4	333591	U-bolt 3/4" x 4" x 5½"
4	8	330332	Lock Washer 3/4"
5	8	330290	Hex Nut 3/4"
6	2	469924	Cylinder 3 x 8
7	2	964742	Cylinder Lock Out
8	2	00233700	Pin Wire Lock

#874446 Lift Arm Right (Shown)
#874438 Lift Arm Left

Item	Qty	Part No.	Description
1	1	974618	Lift Arm Bracket
2	1	330373	HHCS 1" x 9"
3	1	330597	Nylock Nut 1"
4	1	156042	Bushing
5	1	974626	Lift Arm
6	1	831677	Spindle & Hub
7	1	807313	Tire & Rim
		530154	Tire 9.5L x 15 6 Ply
		530238	Rim 5 Bolt 15 x 6
8	1	331223	Set Screw 5/8" x 1 3/4" Square Head
9	1	331538	Jam Nut 5/8"



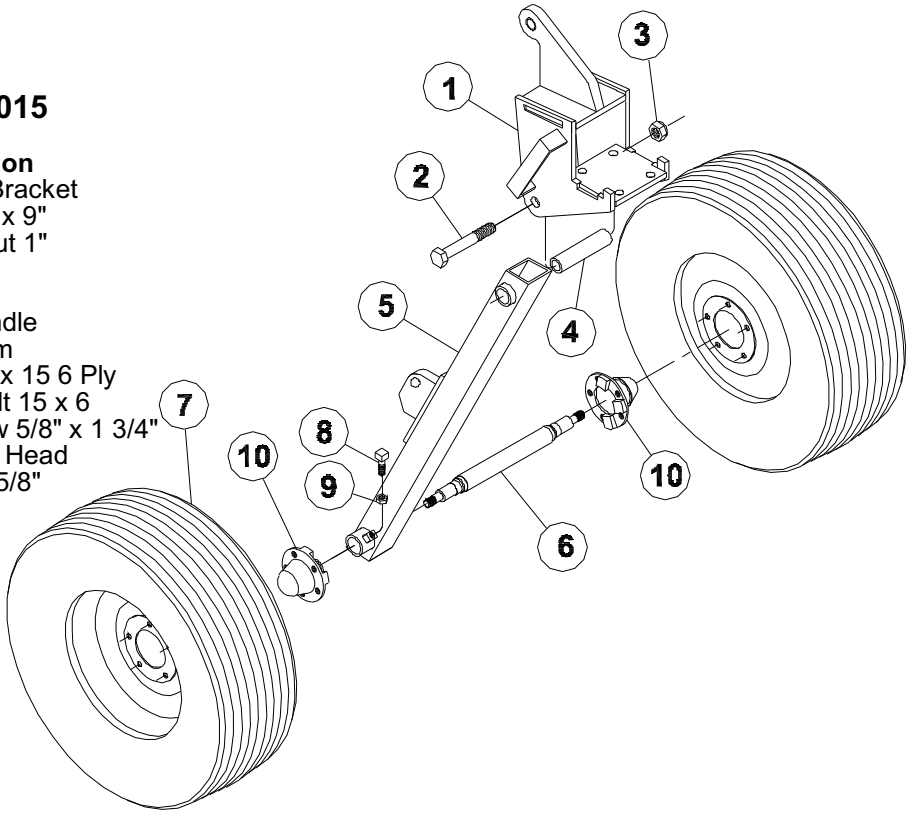
5010 & 5015 Lift Arm



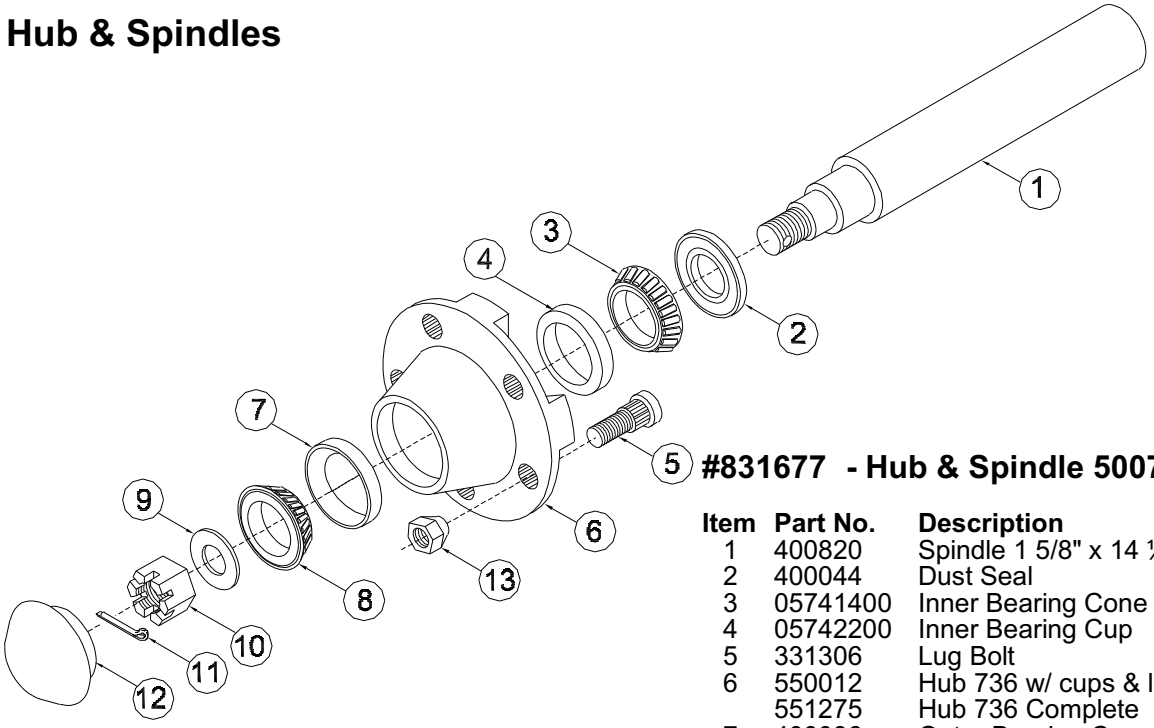
Item	Qty	Part No.	Description
1	2	875682	Lift Arm
2	4	333591	U-bolt 3/4" x 4" x 5½"
3	8	330332	Lock Washer 3/4"
4	8	330290	Hex Nut 3/4"
5	2	330597	Nylock Nut 1"
6	2	469924	Cylinder 3 x 8
7	2	964742	Cylinder Lock Out
8	2	00233700	Pin Wire Lock

#875682 Lift Arm 5010 & 5015

Item	Qty	Part No.	Description
1	1	974618	Lift Arm Bracket
2	1	330373	HHCS 1" x 9"
3	1	330597	Nylock Nut 1"
4	1	156034	Bushing
5	1	974626	Lift Arm
6	1	403683	Dual Spindle
7	2	807313	Tire & Rim
		530154	Tire 9.5L x 15 6 Ply
		530238	Rim 5 Bolt 15 x 6
8	2	331223	Set Screw 5/8" x 1 3/4" Square Head
9	2	331538	Jam Nut 5/8"
10	2	551275	Hub 736



Hub & Spindles

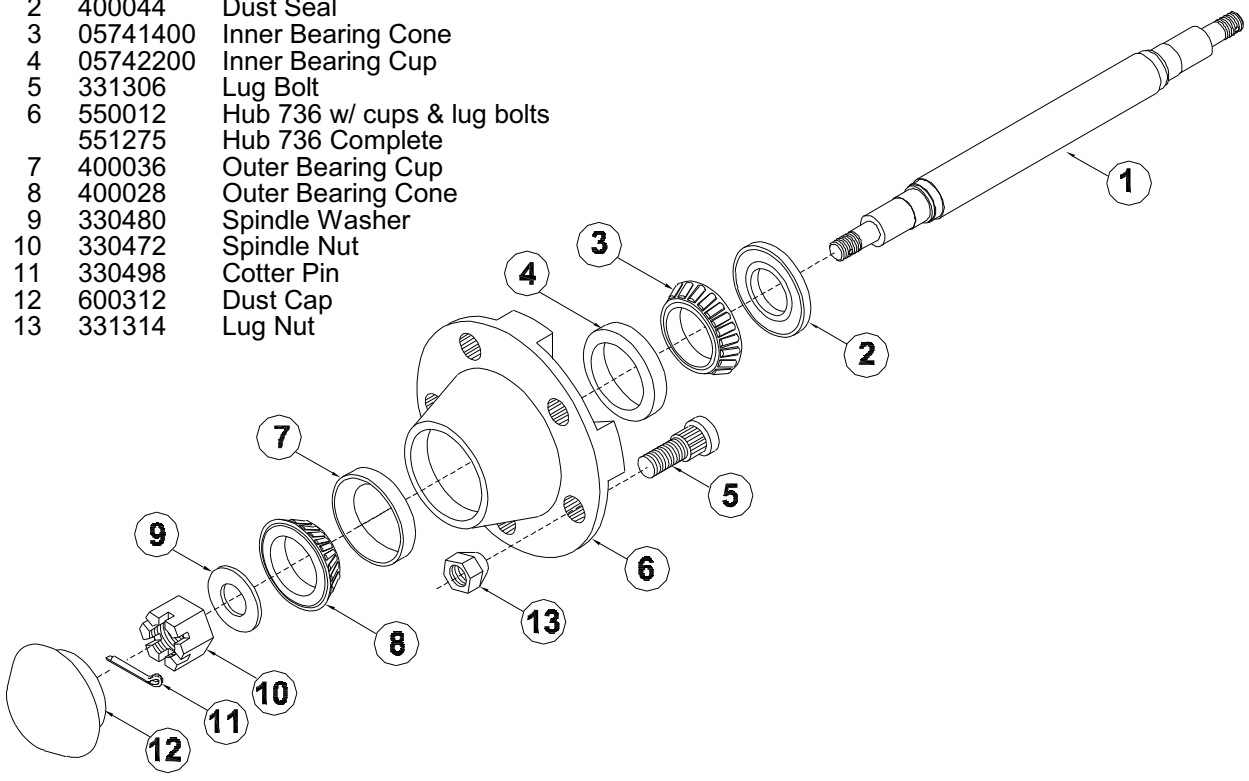


#831677 - Hub & Spindle 5007

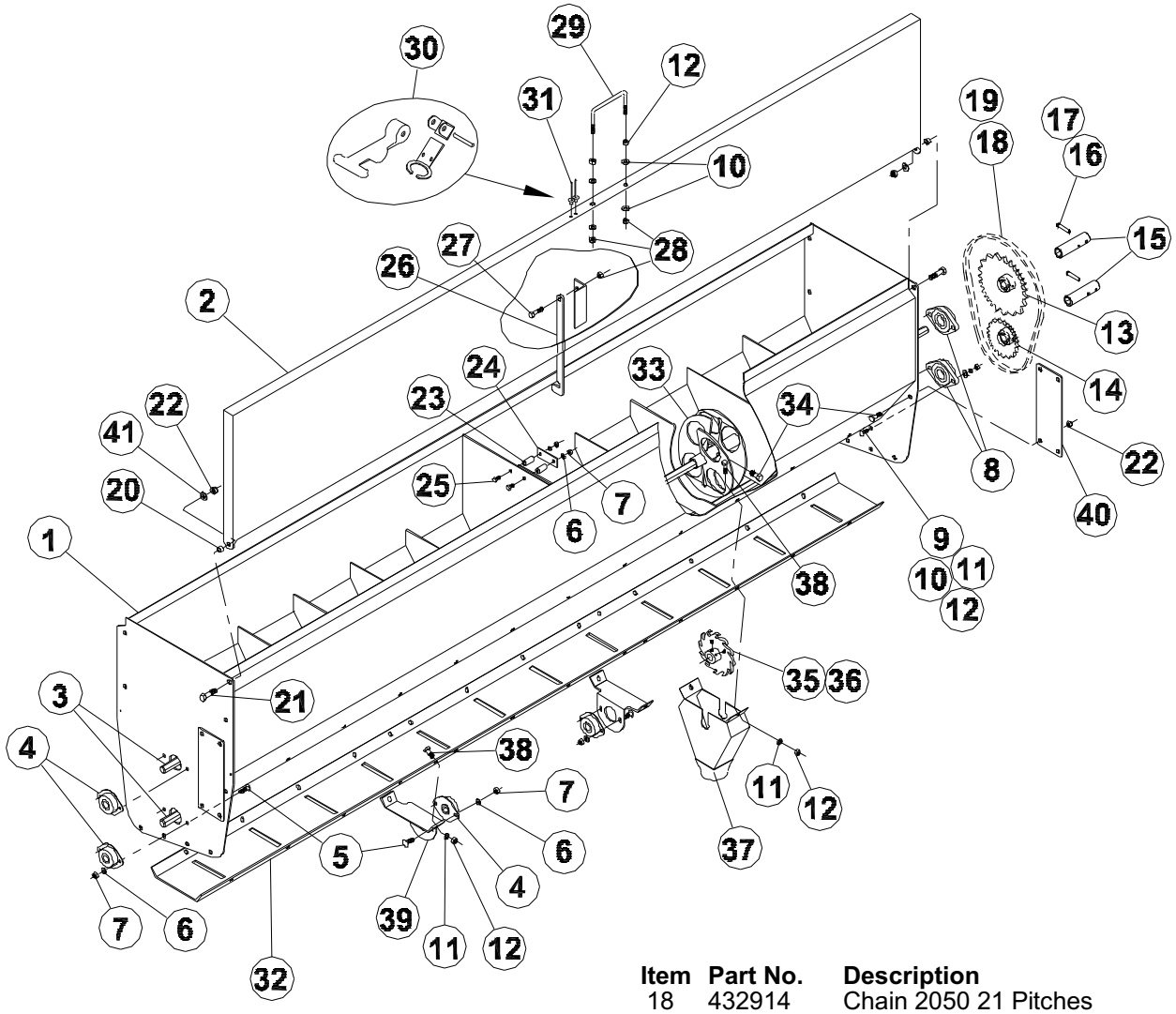
Item	Part No.	Description
1	400820	Spindle 1 5/8" x 14 ½"
2	400044	Dust Seal
3	05741400	Inner Bearing Cone
4	05742200	Inner Bearing Cup
5	331306	Lug Bolt
6	550012	Hub 736 w/ cups & lug bolts
	551275	Hub 736 Complete
7	400036	Outer Bearing Cup
8	400028	Outer Bearing Cone
9	330480	Spindle Washer
10	330472	Spindle Nut
11	330498	Cotter Pin
12	600312	Dust Cap
13	331314	Lug Nut

#403683 - Spindle 5010 & 5015
#551275 - Hub 736 Complete

Item	Part No.	Description
1	403683	Spindle 1 5/8" x 14 ½"
2	400044	Dust Seal
3	05741400	Inner Bearing Cone
4	05742200	Inner Bearing Cup
5	331306	Lug Bolt
6	550012	Hub 736 w/ cups & lug bolts
	551275	Hub 736 Complete
7	400036	Outer Bearing Cup
8	400028	Outer Bearing Cone
9	330480	Spindle Washer
10	330472	Spindle Nut
11	330498	Cotter Pin
12	600312	Dust Cap
13	331314	Lug Nut



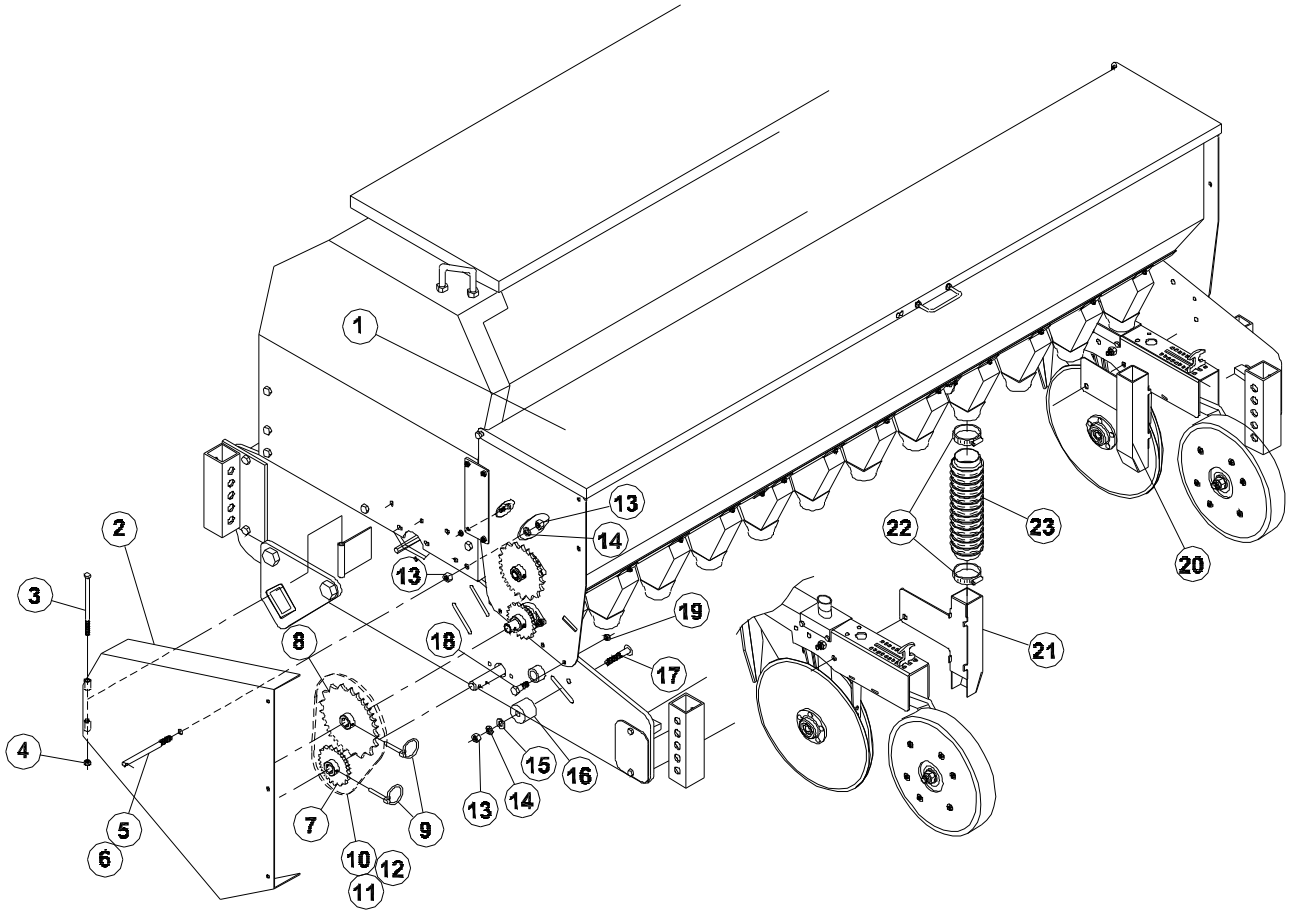
5000 Native Grass Box



Item	Part No.	Description
1	968925	Native Grass Box 7' Drill
	969113	Native Grass Box 10' Drill
	969329	Native Grass Box 15' Drill
2	968909	Native Grass Box Lid 7' Drill
	969139	Native Grass Box Lid 10' Drill
	969352	Native Grass Box Lid 15' Drill
3	311837	Hex Shaft 7' Drill
	311902	Hex Shaft 7' Drill
	311936	Hex Shaft 7' Drill
4	400804	Bearing 5/8" Hex
5	337949	Carriage Bolt 1/4" x 3/4"
6	330050	Lock Washer 1/4"
7	332205	Hex Nut 1/4"
8	03001500	Bearing 1"
9	01047000	Carriage Bolt 5/16" x 1"
10	330852	Flat Washer 5/16"
11	330845	Lock Washer 5/16"
12	330811	Hex Nut 5/16"
13	935106	Sprocket 2050 30T -1" Hub
14	954131	Sprocket 2050 18T -1" Hub
15	311829	Shaft Drive Adapter
16	335349	Clevis Pin 1/4" x 1 5/8"
17	337071	Cotter Pin 3/32" x ½"

Item	Part No.	Description
18	432914	Chain 2050 21 Pitches
19	430983	Chain Connector 2050
20	149393	Bushing ½" x 3/8" x 5/16"
21	335703	HHCS 3/8" x 1½"
22	330837	Nylock 3/8"
23	45144	Lid Latch Spool
24	190942	Lid Latch
25	335133	HHCS 1/4" x 1 3/4"
26	221317	Lid Latch Bracket
27	01011600	HHCS 5/16" x 1 1/4"
28	331611	Nylock 5/16"
29	308122	Lid Handle
30	570341	Lid Latch
31	601989	Pop Rivet 3/16" x 1/4"
32	267427	Box Bottom 7' Drill
	267633	Box Bottom 10' x 7½" Drill
	267641	Box Bottom 10' x 6 2/3" Drill
	969337	Box Bottom 15' Drill
33	968941	Agitator
34	01017300	HHCS 3/8" x 1"
35	968883	Picker
36	334516	Set Screw 1/4-28 x 1/4"
37	968933	Seed Cup
38	01010800	HHCS 5/16" x 1"
39	267492	Bearing Hanger
40	267534	Box Attachment
41	330894	Flat Washer 3/8"

5000 Native Grass Drive



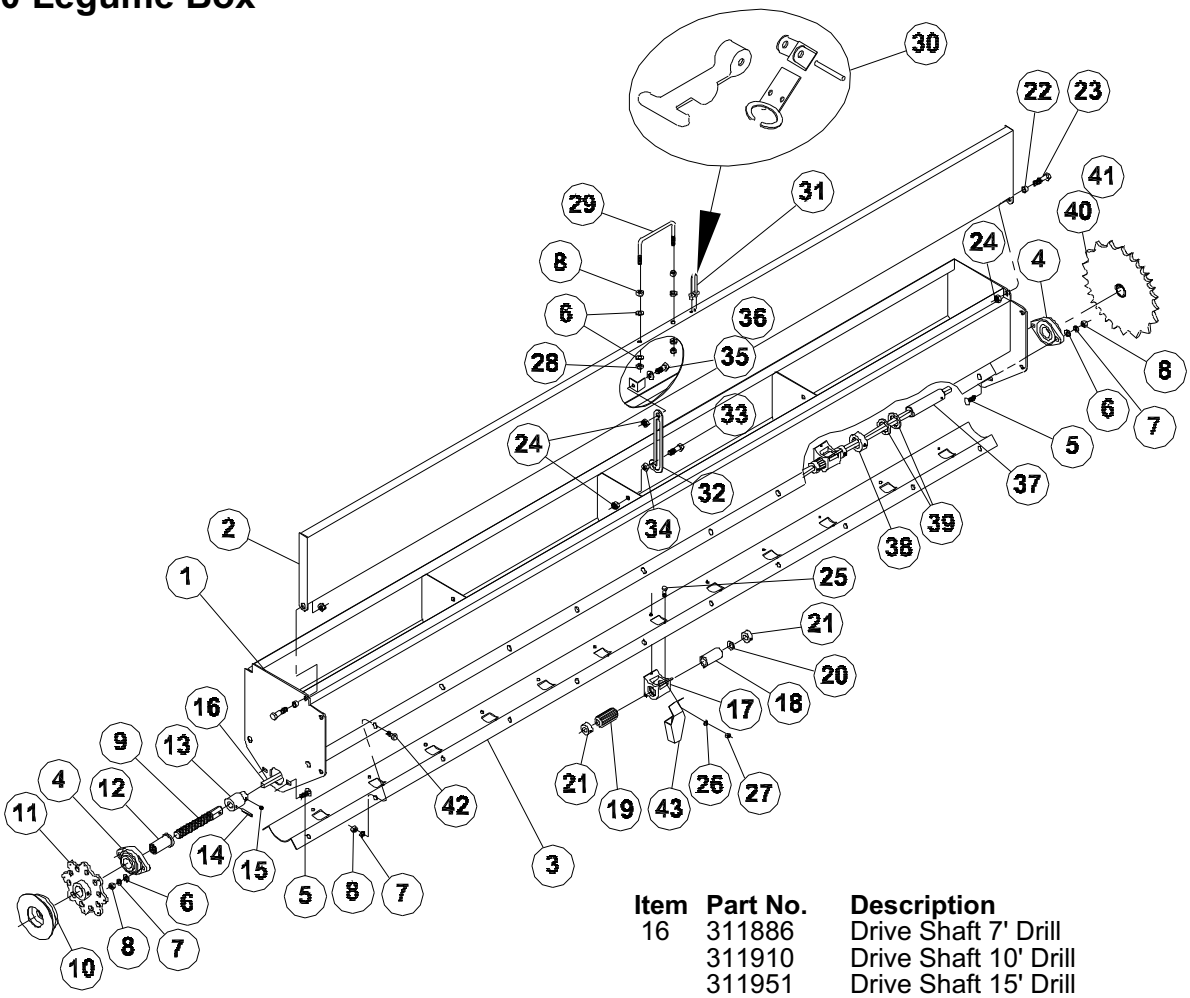
Item	Part No.	Description
1	874826	Box Assembly 7' Drill
	874958	Box Assembly 10' x 7½" Drill
	874966	Box Assembly 10' x 6 2/3" Drill
	875070	Box Assembly 15' Drill
2	968529	Chain Guard
3	335109	HHCS 3/8" x 7"
4	330837	Nylock 3/8"
5	969360	Chain Guard Pin
6	330928	Klik Pin 3/16"
7	935080	Sprocket 2050 20T -1" Hub
8	935114	Sprocket 2050 37T -1" Hub
9	338392	Klik Pin 1/4" w/1 3/4" Ring
10	432690	Chain 2050 29 Links
11	430983	Chain 2050 Connector Link
12	431270	Chain 2050 Offset Link
13	330134	Hex Nut ½"

Item	Part No.	Description
14	330142	Lock Washer ½"
15	330159	Flat Washer ½"
16	571273	Nylon Idler
17	335323	Carriage Bolt ½" x 3"
18	01180900	HHCS ½" x 1½"
19	331363	Nylock ½"
20	969477	Feed Tube Left
21	969485	Feed Tube Right
22	606392	Clamp 2½" Worm Drive
23	570549	Feed Tube 22 Convolutions

Extra Sprockets:

1	935072	Sprocket 2050 12T -1" Hub
1	954131	Sprocket 2050 18T -1" Hub
1	954362	Sprocket 2050 44T -1" Hub

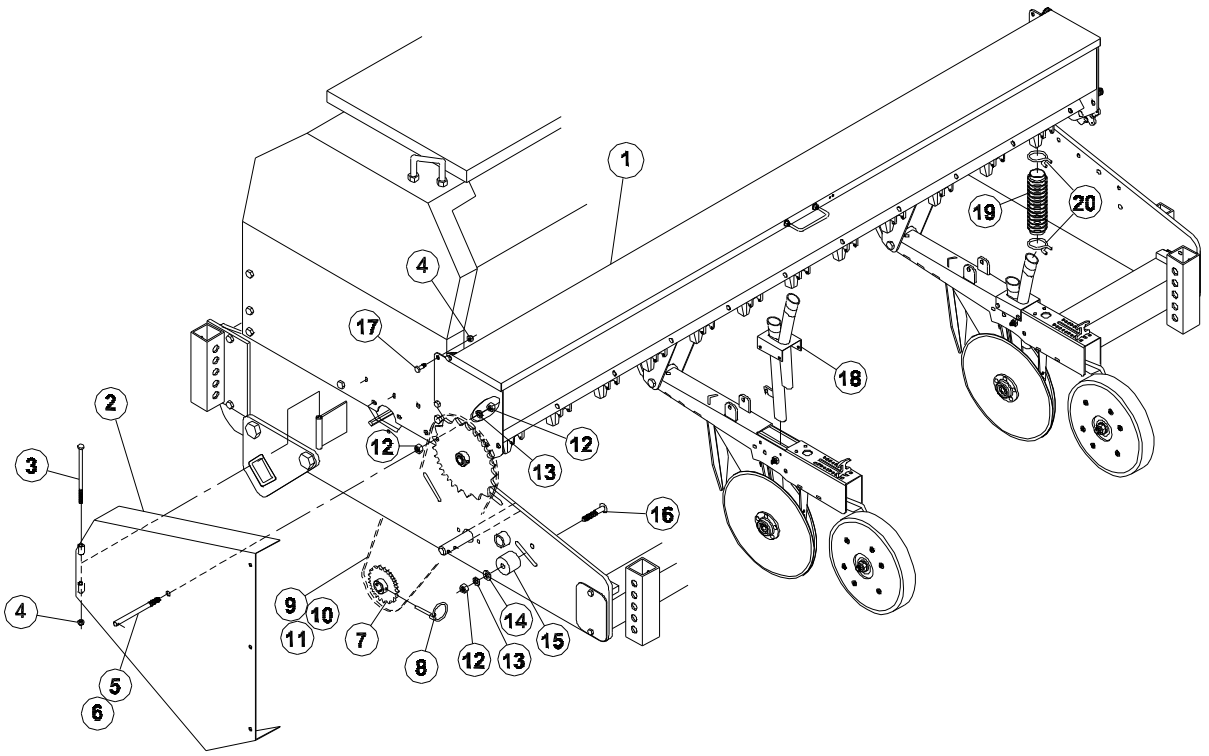
5000 Legume Box



Item	Part No.	Description
1	969014	Legume Box 7' Drill
	969154	Legume Box 10' Drill
	969410	Legume Box 15' Drill
2	969030	Box Lid 7' Drill
	969170	Box Lid 10' Drill
	969394	Box Lid 15' Drill
3	267542	Box Bottom 7' Drill
	267708	Box Bottom 10' x 7½"
	267716	Box Bottom 10' x 6 2/3"
	969378	Box Bottom 15' x 7½"
	972901	Box Bottom 15' x 6 2/3"
4	03001500	Bearing 1"
5	01047000	Carriage Bolt 5/16" x 1"
6	330852	Flat Washer 5/16"
7	330845	Lock Washer 5/16"
8	330811	Hex Nut 5/16"
9	311878	Hex Shaft 5/8" x 5½"
10	972851	Adjustment Lock Plate
11	968966	Adjustment Handle
12	312785	Adjustment Spool
13	969048	Feed Shaft Coupler
14	337485	Roll Pin 3/16" x 1 1/4"
15	334516	Set Screw 1/4-28 x 1/4"
16	311886	Drive Shaft 7' Drill
	311910	Drive Shaft 10' Drill
	311951	Drive Shaft 15' Drill
17	571570	Feed Cup
15	334516	Set Screw 1/4-28 x 1/4"

Item	Part No.	Description
16	311886	Drive Shaft 7' Drill
	311910	Drive Shaft 10' Drill
	311951	Drive Shaft 15' Drill
17	571570	Feed Cup
18	571588	Feed Roll
19	571596	Feed Cut-off
20	571604	Feed Cut-off Washer
21	02625200	Lock Collar ½"
22	149393	Walkboard Spool
23	335703	HHCS 3/8" x 1½"
24	330837	Nylock 3/8"
25	01057900	HHCS 1/4" x 3/4"
26	330050	Lock Washer 1/4"
27	332205	Hex Nut 1/4"
28	331611	Nylock 5/16"
29	308122	Lid Handle
30	570341	Lid Latch
31	600635	Pop Rivet 1/8"
32	267153	Lid Holder
33	01158500	HHCS 3/8" x 1 1/4"
34	330035	Hex Nut 3/8"
35	01017300	HHCS 3/8" x 1"
36	330894	Flat Washer 3/8"
37	311852	Bearing Adapter
38	06409700	Lock Collar 1"
39	335166	Machine Bushing 1" ID x 1½" x 10 ga
40	954362	Sprocket 2050 44T -1" Hub
41	338392	Klik Pin 1/4" -1 3/4" Ring
42	01144500	HHCS 5/16" x 3/4"
43	969204	Seed Tube Extension

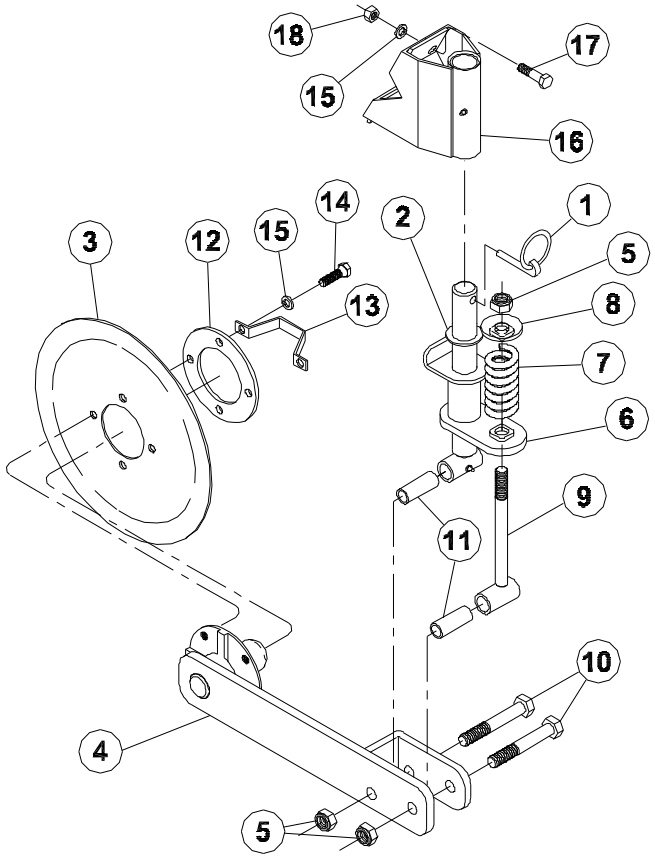
5000 Legume Drive



Item	Part No.	Description
1	874842	Box Assembly 7' Drill
	874974	Box Assembly 10' x 7½" Drill
	874982	Box Assembly 10' x 6 2/3" Drill
	875088	Box Assembly 15' Drill
2	968529	Chain Guard
3	335109	HHCS 3/8" x 7"
4	330837	Nylock 3/8"
5	969360	Chain Guard Pin
6	330928	Klik Pin 3/16"
7	935072	Sprocket 2050 20T -1" Hub
OR	935072	Sprocket 2050 12T -1" Hub
8	338392	Klik Pin 1/4" - 1 3/4" Ring

Item	Part No.	Description
9	431841	Chain 2050 37 Links
10	430983	Chain 2050 Connector Link
11	431270	Chain 2050 Offset Link
12	330134	Hex Nut ½'
13	330142	Lock Washer ½"
14	330159	Flat Washer ½"
15	571272	Nylon Idler
16	335323	Carriage Bolt ½" x 3"
17	01017300	HHCS 3/8" x 1"
18	969444	Feed Tube
19	603027	Hose Clamp 1 5/8"
20	571612	Feed Tube 40 Convolutions

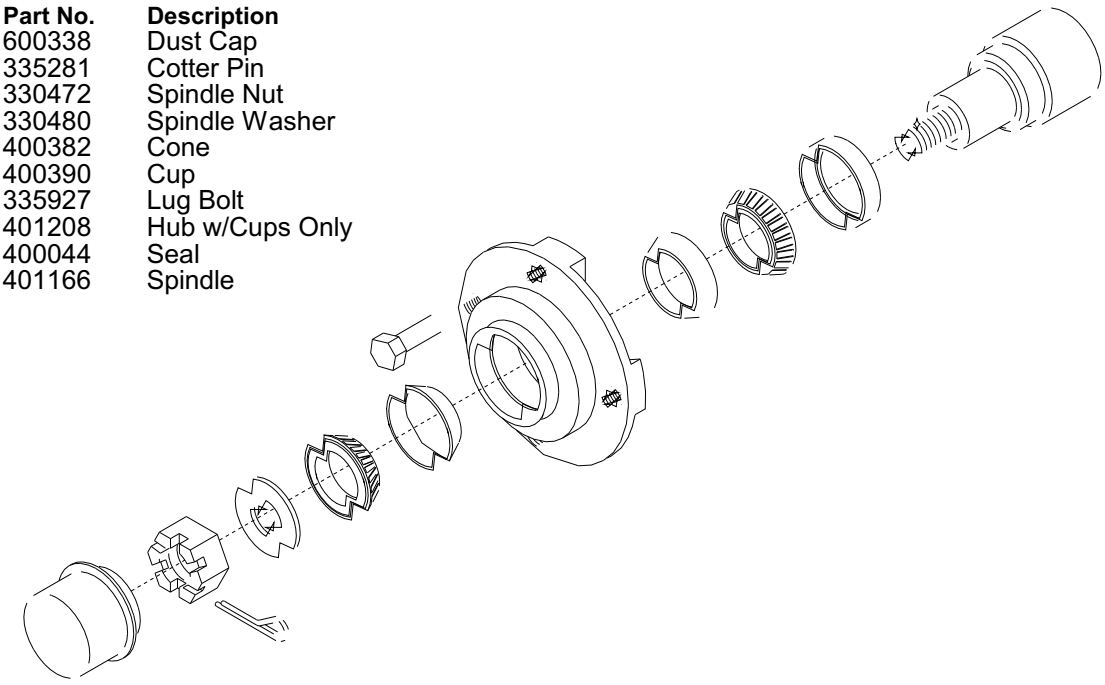
5000 Coulter



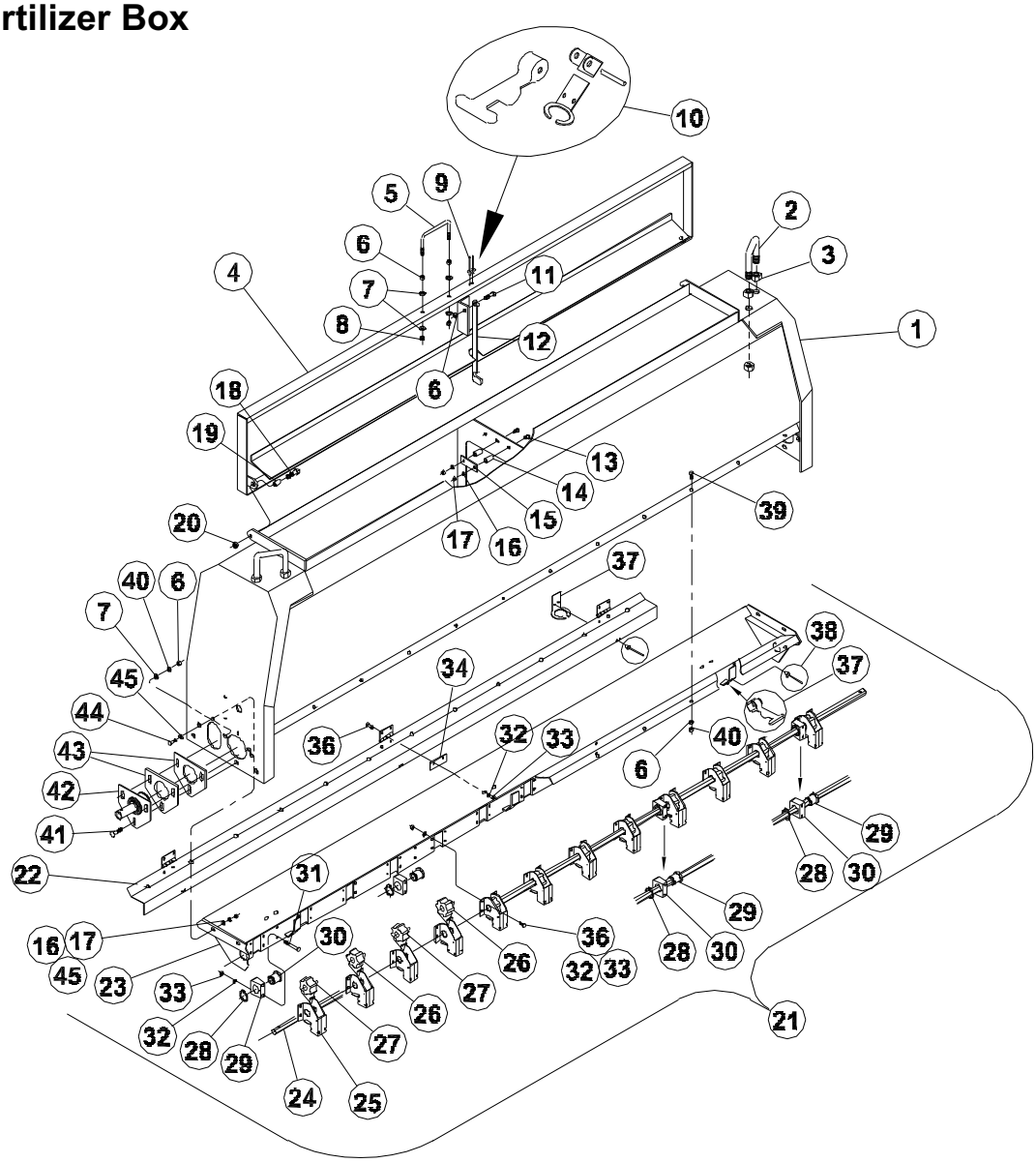
Item	Qty	Part No.	Description
1	1	334425	Klik Pin 7/16" w 2" Ring
2	1	336461	Machine Bushing 2 1/4" x 1½" x 10ga
3	1	502377	Coulter Blade 15"
4	1	968446	Spindle & Hub Arm -Long
	1	968438	Spindle & Hub Arm -Short
5	3	330316	Nylock Nut 3/4"
6	1	968479	Pivot Arm
7	1	500306	Spring ½" x 6
8	1	968826	Spring Cap
9	1	968222	Spring Bar
10	2	01299700	HHCS 3/4" x 5"
11	2	154021	Bushing
12	1	208603	Coulter Ring
13	1	205096	Cap
14	4	335927	HHCS ½" x 1" SAE
15	8	330142	Lock Washer ½"
16	1	968453	Coulter Mount
17	4	331926	HHCS ½" x 2"
18	4	330134	Hex Nut ½"

#401133 -Coulter Hub

Item	Part No.	Description
1	600338	Dust Cap
2	335281	Cotter Pin
3	330472	Spindle Nut
4	330480	Spindle Washer
5	400382	Cone
6	400390	Cup
7	335927	Lug Bolt
8	401208	Hub w/Cups Only
9	400044	Seal
10	401166	Spindle



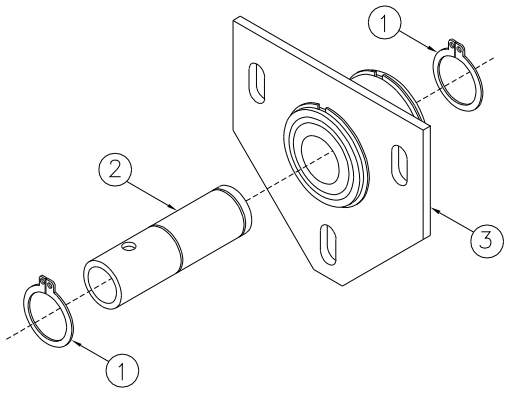
5007 Fertilizer Box



Item	Qty	Part No.	Description
1	1	969774	Fertilizer Box
2	2	335737	Box Handle
3	8	330571	Hex Nut 5/8"
4	1	969758	Fertilizer Box Lid
5	1	308122	Box Lid Handle
6	30	330811	Hex Nut 5/16"
7	7	330852	Flat Washer 5/16"
8	2	331611	Nylock 5/16"
9	4	601989	Pop Rivet 3/16" x 1/4"
10	1	570341	Lid Latch & Hook
11	1	01011600	HHCS 5/16" x 1 1/4"
12	1	221317	Lid Latch Bracket
13	2	335133	HHCS 1/4" x 1 3/4"
14	2	145144	Lid Latch Spool
15	1	190942	Lid Latch
16	6	330050	Lock Washer 1/4"
17	6	332205	Hex Nut 1/4"
18	2	335703	HHCS 3/8" x 1½'
19	2	149385	Lid Bushing
20	2	330837	Nylock 3/8"
21	1	875302	Box Bottom Assembly Includes #22-38
22	1	969790	Fertilizer Door
23	1	969782	Box Bottom
24	1	312058	Hex Shaft
25	12	960625	Fertilizer Cup
26	6	571240	Nylon Rotor
27	6	571257	Nylon Rotor 30 Degree
28	4	605766	External Snap Ring
29	4	571232	Bearing Block
30	4	310508	Bearing Hex Insert
31	8	337741	HHCS 1/4" x 2" SS
32	62	337550	Lock Washer 1/4" SS
33	62	01507300	Hex Nut 1/4" SS
34	3	259523	Door Hinge Spacer
35	6	02226900	HHCS 1/4" x 3/4" SS
36	48	01245000	HHCS 1/4" x ½" SS
37	3	570341	Lid Latch & Hook
38	12	601989	Pop Rivet 3/16" x 1/4"
39	24	333542	HHCS 5/16" x 5/8"
40	24	330845	Lock Washer 5/16"
41	3	01261700	Carriage Bolt 5/16" x 1½'
42	1	866442	Bearing Bracket
43	2	220467	Bearing Bracket Spacer
44	4	01057900	HHCS 1/4" x 3/4"
45	8	02016400	Flat Washer 1/4"

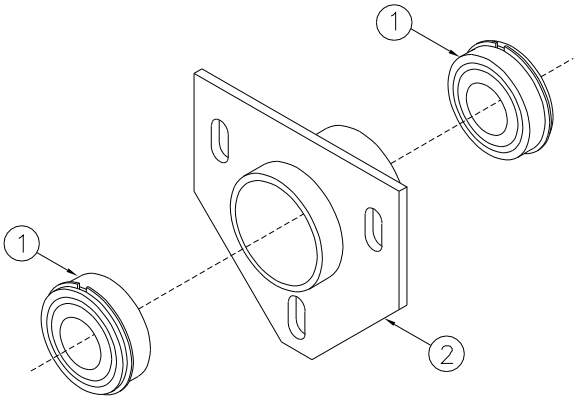
Drive End Bracket Assembly #866442

Item	Part No.	Description
1	605766	External Snap Ring
2	310235	Seed Shaft Drive Adaptor
3	866434	Drive End Bracket/Brg Assy

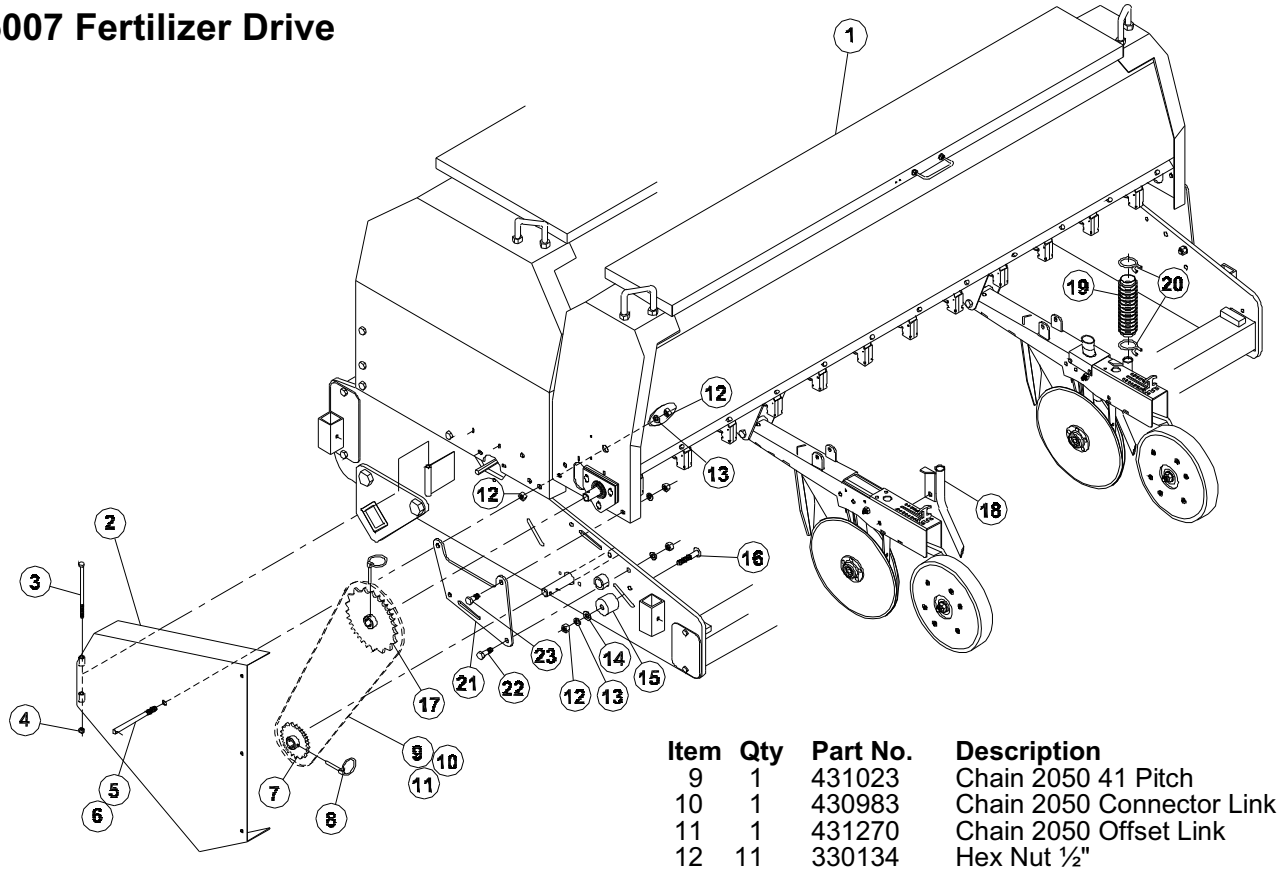


Drive End Bracket #866434

Item	Part No.	Description
1	03003100	Bearing 1" w/Spring
2	959130	Drive End Bracket



5007 Fertilizer Drive



Item	Qty	Part No.	Description
1	1	875310	Fertilizer Box Assembly
2	1	968529	Chain Guard
3	1	335109	HHCS 3/8" x 7"
4	1	330837	Nylock 3/8"
5	1	969360	Chain Guard Pin
6	1	330928	Klik Pin 3/16"
7	1	935080	Sprocket 2050 20T -1" Hub
8	2	338392	Klik Pin 1/4" -1 3/4" Ring
9	1	431023	Chain 2050 41 Pitch
10	1	430983	Chain 2050 Connector Link
11	1	431270	Chain 2050 Offset Link
12	11	330134	Hex Nut ½"
13	10	330142	Lock Washer ½"
14	1	330159	Flat Washer ½"
15	1	571273	Nylon Idler
16	1	335323	Carriage Bolt ½" x 3"
17	1	935114	Sprocket 2050 37T -1" Hub
18	12	969196	Feed Tube
19	24	603027	Hose Clamp 1 5/8"
20	12	571612	Feed Tube 40 Convolution
21	2	231407	Box Mount
22	4	01180900	HHCS ½" x 1 1/4"
23	4	01147800	HHCS ½" x 1½'

5007 Fertilizer

REFER TO NOTE BELOW TO DETERMINE RATE, THEN REFER TO THIS CHART.
Fertilizer delivery rate per revolution determined from sample of material you will apply of:

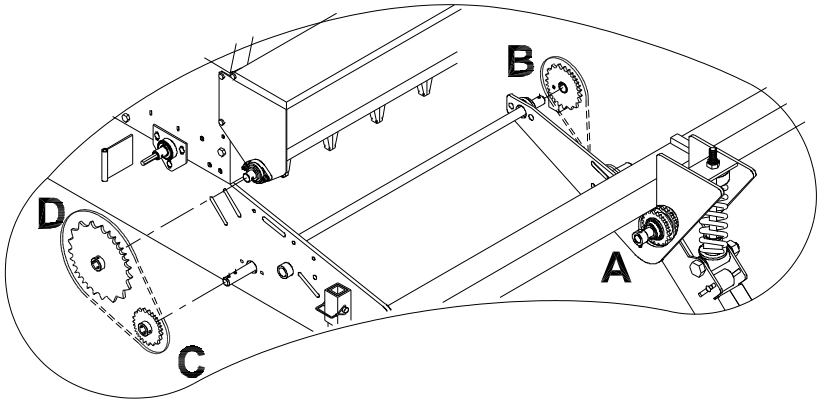
Sprockets				.55 oz of fertilizer per rotor revolution will yield application rate in lb/acre of:		.6 oz of fertilizer per rotor revolution will yield application rate in lb/acre of:		.65 oz of fertilizer per rotor revolution will yield application rate in lb/acre of:		.7 oz of fertilizer per rotor revolution will yield application rate in lb/acre of:		.75 oz of fertilizer per rotor revolution will yield application rate in lb/acre of:	
A	**B**	**C**	**D**	**6 2/3"**	**7½"**	**6 2/3"**	**7½"**	**6 2/3"**	**7½"**	**6 2/3"**	**7½"**	**6 2/3"**	**7½"**
18	44	12	44	41	37	45	40	50	44	53	47	56	50
18	37	12	44	49	44	54	48	59	52	62	56	67	60
18	30	12	44	61	54	66	59	73	65	77	69	83	73
18	30	12	37	72	64	79	70	86	77	92	81	98	87
18	30	18	44	91	81	99	88	109	97	116	103	124	110
18	25	18	44	109	97	119	106	131	116	139	123	149	132
18	25	18	37	130	115	141	126	156	138	165	147	177	157
18	25	20	37	144	128	157	140	173	154	183	163	196	175
18	25	18	30	160	142	174	155	192	170	203	181	218	194
18	25	20	30	178	158	194	172	213	189	226	201	242	215
18	25	30	37	216	192	236	209	259	230	275	244	295	262
18	25	18	20	240	213	262	233	288	256	305	271	327	291
18	20	25	30	278	247	303	269	333	296	353	314	379	336
18	18	20	25	296	263	323	287	355	316	377	335	404	359
18	30	18	12	333	296	363	323	400	355	424	377	454	404
18	30	44	25	391	347	426	379	469	417	497	442	533	474
18	30	37	20	411	365	448	398	493	438	523	465	560	498

NOTE: The different types of fertilizer you apply will all have different delivery rates. Samples need to be caught to determine your particular material's delivery rate per rotor revolution in ounces per revolution. A minimum of 10 turns is recommended because of the small amounts involved.

Example: If 10 revolutions from one cup delivers 6.5 ounces, divide 6.5 by 10 to find ounces per revolution.

6 . 5 ÷ 1 0 = . 6 5

Refer to chart using the column for .65 ounces.



CrustBuster
SPEED KING INC.

P.O.Box 526 ● Spearville Kansas 67876 ● (620) 227-7106 ● crustbuster.com

All Grain Drills Final Assembly Check List

Drill Model #

Drill Serial #

SR. NO.	DESCRIPTION	CHECKED		INITIALS
		Yes	No	
1	Check console, Light kit, Chain bag			
2	No missing nuts & bolts and that all nuts & bolts are tight.			
3	Center lug bolts torque to 120 ft. lbs.			
4	All bearing zerks are greased.			
5	No hydraulic leaks			
6	All decals on and in proper place.			
7	Paint touched up and good overall appearance.			
8	Sprockets aligned properly & chains adjusted visually or with the laser check tool.			
9	Chains are not very tight and have some slack.			
10	Wobble slot open to ¾" and then close at ⅜".			
11	Gauge in store position.			
12	Test shaft trak. Box monitor and shaft.			
13	Final check on opener assembly.			
14	All lock out brackets in place			
15	Manual in box.			
16	No hardware left in box assemblies. (Bolts, Nuts, Tools)			
17	Walk boards aligned and evenly spaced.			
18	Lower seed tubes good and not smashed.			
19	If opener bars off, then seed tubes and extra parts in drill.			
20	Center drive properly aligned (For 4700 drills only).			
21	Center drive in road position (For 4700 drills only).			

Remarks:

Signature: Date: