MOBILITY BY DALTON AG

OPERATING AND PARTS MANUAL

600 & 800 ROW CROP MODELS

Mobility 800 Row Crop

Mobility 600 Row Crop

www.DaltonAg.com

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Simple. Durable. American.

TO YOU, THE OWNER

Your Mobility Spreader is the most modern, up-to-date, versatile, machine available for broadcast application of bulk fertilizer and other granular materials. The machine is the result of many years of experience, research, development and testing of equipment for broadcast application. It is soundly engineered and carefully built to rigid specifications. It is of rugged and simple construction, with a minimum of moving parts.

However, to obtain maximum performance from your spreader, it is necessary to follow the instructions and safety suggestions in this manual. Each section has been carefully prepared for the purpose of providing needed and valuable information to the owner and operator. Each operator of this unit should be familiar with the contents of this manual. Keep it in a safe and convenient location. THERE ARE MANY SAFETY SUGGESTIONS (CAUTION AREAS) PRINTED THROUGHOUT THIS MANUAL. CAREFULLY READ THEM ALL BEFORE OPERATING THIS UNIT.

DESIGN IMPROVEMENTS

Dalton Ag Products follows a policy of continuous products improvement. We therefore reserve the right to make design improvements, and changes in specifications and prices, without incurring obligations to make revisions or additions to equipment previously sold.

SPECIFICATIONS	6 TON SPREADER	8 TON SPREADER
CAPACITY - STRUCK (CU FT.)	200	270
CAPACITY - STRUCK (TONS)	6 TONS	8 TONS
TARE WEIGHT	3,750 LBS.	4,950 LBS.
TANK DIMENSIONS	93" X 108"	93" X 120"
OVERALL LENGTH AND WIDTH	220" and 93-132"	227" and 93-136"
OVERALL HEIGHT AND LOADING HEIGHT	114" AND 107"	119" AND 112"
SPINNER DRIVE PROTECTION	V-BELT	V-BELT
WHEEL TRACK	ADJUSTABLE	ADJUSTABLE
HUB (8-BOLT, 8" CIRCLE) & SPINDLE RATING	8,000 LBS. EA.	15,000 LBS. EA.
PTO DRIVE	540 RPM OR 1000 RPM	540 RPM OR 1000 RPM
PTO SHAFT	12N, 20 HP RATED WITH 1" X 1 3/8" MALE SHAFT	12N, 20 HP RATED WITH 1" X 1 3/8" MALE SHAFT
TANK MATERIAL	12 & 14 GA STAINLESS STEEL	12 & 14 GA. STAINLESS STEEL
TONGUE JACK	5,000 LB. SWING -AWAY SCREW TYPE	5,000 LB. SWING-AWAY SCREW TYPE
DISTRIBUTOR DISCS	19" DUAL SPINNERS AND 24" SINGLE STAINLESS STEEL	19" DUAL SPINNERS AND 24" SINGLE STAINLESS STEEL
CONVEYOR TROUGH	STAINLESS STEEL	STAINLESS STEEL
DRIVE CHAINS	#40 GROUND DRIVE & #50 CONVEYOR DRIVE	#40 GROUND DRIVE & #50 CONVEYOR DRIVE
METERING GATE, REAR SKID, & TAKE-UP BOLTS	STAINLESS STEEL	STAINLESS STEEL
SPREADING WIDTH	40' - 50' - 60'	40' - 50' - 60'
SPREADING WIDTH, AVERAGE MATERIAL	66 TO 1,500 LBS. PER ACRE AT 9 MPH, OR 1,200 LBS. PER MIN.	66 TO 1,500 LBS. PER ACRE AT 9 MPH, OR 1,200 LBS. PER MIN.
SPINDLE DIAMETER	3"	3.5"
AXLE RATING	16,000 4.10/3.50-5 PNEUMATIC TIRE GROUND DRIVEN, SINGLE CHAIN	30,000 4.10/3.50-5 PNEUMATIC TIRE GROUND DRIVEN, SINGLE CHAIN
CONVEYOR DRIVE	2-SPEED	2-SPEED
GATE JACK	SCREW-TYPE	SCREW-TYPE

NEW MACHINE CHECKOUT

Before attempting to use or operate the spreader it is important to be thoroughly familiarized with the contents of this manual. Then the machine should be checked using the following check list:

1. Ground drive tire inflated to 22 PSI. Tires inflated to manufacturing specifications.

2. All bearings lubricated and tightly mounted with collars securely locked.
   (See lubrication schedule page 5.)

3. Conveyor chains, drive chain & ground drive chain adjusted to correct tension. Conveyor chain should clear frame members by ½ - ¾.

4. Sprockets tightened & in proper alignment.

5. Inspect entire machine for loose bolts, especially in the spinner assembly and drive line area.

6. Distributor fan blades set properly. (See spread adjustment and application rates pages 7 through 25.)

7. Setting of metering gate. With the pointer on the number 1 of the spread rate chart decal, the lower edge of the metering gate should be 1 ¼" above the trough floor.

8. Tighten wheel bolts daily – 95 foot pounds single axle spreaders.

9. Check drive line for ease of operation by turning shaft by hand. If the foregoing inspection reveals that additional lubrication or adjustment is required, refer to the proper section of this manual for detailed instructions.

10. Ground drive wheel and universal joint shear pins in place and tight.

11. Check both spinner gear boxes for oil; fill to level of pipe plug with SAE No. 90 non-detergen

OPERATION

SPREADER SAFETY

Before starting in motion please read the following words of caution.

A. It is recommended that initial spreading be done in as low a range as possible to permit easy break-in.
B. Always shut off or disconnect power to spreader before attempting to repair or adjust the spreader.
C. Do not transport machine with ground drive wheel engaged.
D. NEVER back-up spreader with ground drive wheel engaged.
E. Make sure that the towing vehicle brakes are operating properly and are capable of stopping the towing vehicle.
F. If a pick-up is used as the towing vehicle, it is wise to add ballast for additional safety and traction. We recommend that all towing vehicles be ballast loaded to their recommended G.V.W.
G. Hitches should be of heavy construction and should be welded or bolted directly to the towing vehicle frame. Hitches should be checked routinely for loose bolts, cracked welds, etc.
H. Never tow a spreader with a drawbar pin less than 1" in diameter. Pins should also have a locking device.
I. Do not tow spreader at speeds in excess of 20 mph loaded or 40 mph empty.
J. Remember, that the stopping and braking distances vary with load and vehicle speed. It is well to familiarize yourself with the characteristics of your machine under different load and speed conditions.
K. Be sure to attach safety break-away chain and the safety chain to towing vehicle to assure control of spreader in the case of pin or hitch failure.
L. The unit is designed for hitching to vehicles with drawbar heights between 12 and 18 inches above the ground level. It will operate with all standard tractor hitches and PTO's. WARNING: Hydraulically mounted drawbars must be securely and mechanically locked because a fully loaded spreader applies a load in the order of 2000 lbs. to the hitch.
M. WARNING: Remember this unit is designed for agricultural use only and is primarily an off-the-road vehicle and should be towed at tractor speeds ONLY, not to exceed 20 mph loaded or 40 mph empty. Inspect hubs routinely to see if they are heating, which indicates either a need for lubrication or improper adjustment of brakes or bearings, also check stud nuts for tightness.
N. WARNING: The maximum capacity of this unit is 6 tons (600) or 200 cubic feet, based on a material density of 60 pounds per cubic foot. DO NOT EXCEED THIS LIMIT!

OPERATING INSTRUCTIONS

Please read the following completely before spreading.

1) Attach spreader to towing vehicle, make sure hitch and hitch pin are sound.
2) Attach PTO shaft to proper rpm PTO.
3) Spinner discs, adjustable chute and conveyor floor should be clean for accurate metering.
4) Set metering gate to desired spread rate according to decal on the back end sheet of tank. Always keep the machine in the lowest possible range.
5) Before starting to spread, rotate the ground drive wheel several revolutions by hand to make sure the conveyor chain is operating freely. If chain is frozen or moves with too much resistance, correct problem before using spreader.
6) If the ground drive wheel operates properly, check with chain and sprocket arrangement for desired range setting and chain tension.
7) When spreading is complete, disengage ground drive assembly from the tire and install transport lockup.

LUBRICATION SCHEDULE

Careful observance of the following lubrication schedule is the best preventative maintenance program for your spreader. We recommend that you establish a firm program to insure lubrication in strict compliance with the following schedule. Use only good grade pressure gun type grease unless otherwise specified.

DAILY LUBRICATION SCHEDULE	**DRIVELINE**	ALL MODELS	(4) BEARINGS
			(2) U-JOINTS
		GROUND DRIVE	(1) BEARING
			(4) U-JOINTS
			(2) TELESCOPING TUBES
	CONVEYOR DRIVE	ALL MODELS	(6) BEARINGS
	GROUND DRIVE	ALL MODELS	(2) SHAFT HOUSINGS
			(2) U-JOINTS
			TELESCOPING TUBE
			(2) SQUIRTS OF SAE 90 OIL INTO JACK CRANK
			OIL CAP

Pay particular attention to the daily cleaning and greasing of the telescoping tube assembly.

WEEKLY LUBRICATION SCHEDULE	**CHAINS**	OIL	LUBRICATE PIN JOINTS WITH SAE 80-90
	PTO SHAFT	GREASE	(2) U-JOINTS AND SLIP TUBE
	SPINNER GEARBOX	GREASE	UNIVERSAL GREASE ON EACH FITTING UNDER SPINNER HUB

MONTHLY LUBRICATION SCHEDULE	**DRIVE SHAFT SPLINES**	COAT WITH GREASE OR ANTI-SEIZE COMPOUND
	SPINNER GEAR BOX	CHECK TO SEE THAT OIL LEVEL IS UP TO OIL LEVEL PLUG. USE SAE 90 OIL

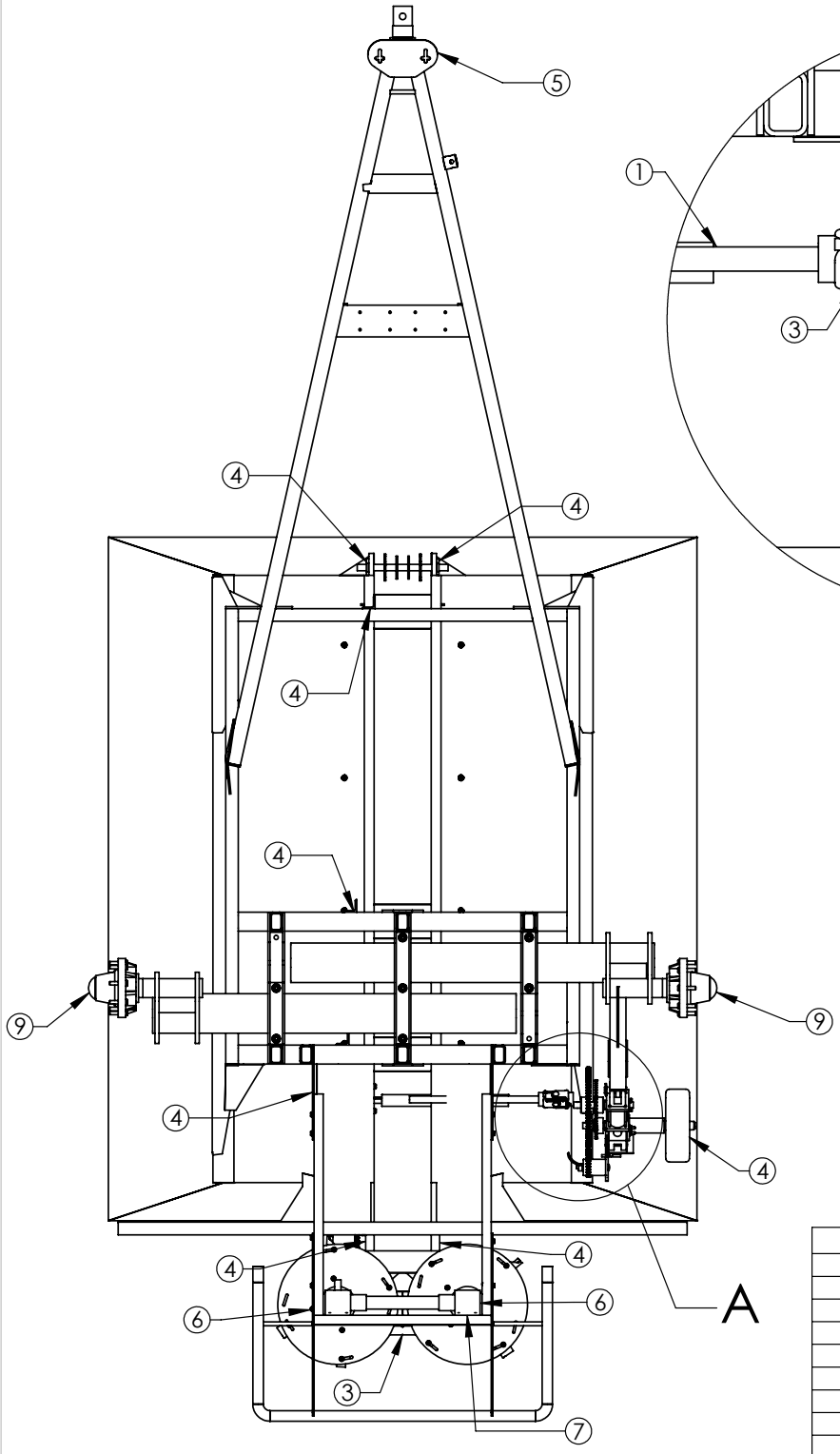
ANNUAL LUBRICATION SCHEDULE	**WHEEL BEARINGS**	REPACK
	GEAR BOXES	DRAIN, FLUSH, AND REFILL WITH SAE 90 OIL

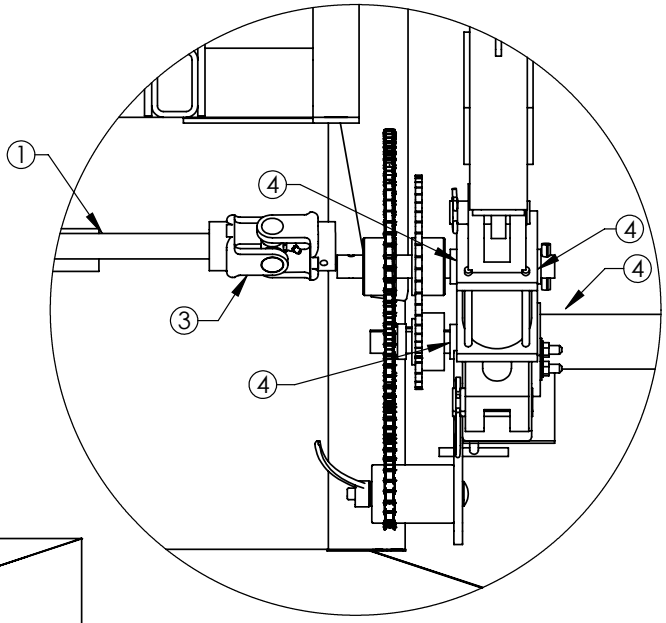
MAINTENANCE

WEEKLY	WASH SPREADER
	CHECK GROUND DRIVE TIRE INFLATION (22 PSI)
	CORRECT BELT TENSION
	ADJUST TENSION OF CONVEYOUR AND DRIVE CHAINS (SEE MACHINE CHECKOUT)

SEMI-ANNUALLY	TIGHTEN LOOSE BOLTS
	REPLACE WORN OR FAILED PARTS
	TOUCH-UP PAINT

LUBRICATION DETAIL





DETAIL A
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LUBRICATION SCHEDULE		
1	SLIP JOINT	DAILY
2	PIVOT BUSHING	EVERY 10 HRS
3	UNIVERSAL JOINT	EVERY 15 HRS
4	BALL BEARING	EVERY 15 HRS
5	ACTUATOR	EVERY 15 HRS
6	SPINNER HUB	EVERY 15 HRS
7	GEAR BOX	EVERY 75 HRS
8	GATE JACK (OIL)	WEEKLY
9	WHEEL BEARING	TWICE A YEAR

DRAWN BY	RICH SMOTHERS	2/9/2010
CHECKED BY		
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CONFIG.	Default	

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COMMENTS:

DWG: LUBRICATION SCHEDULE

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SCALE: 1:26 | SHEET 1 OF 1

MACHINE ADJUSTMENT

WHEEL BEARING ADJUSTMENT

After repacking or when inspecting wheel bearings, the following adjustment procedure should be followed. Place flat washer and spindle nut on spindle. Turn hub as you tighten nut. When a pronounced drag is felt in the bearings, back off nut one complete slot. If necessary continue to back off the nut until the next slot aligns with the cotter pin hole and install cotter pin and dust cap.

CONVEYOR CHAIN ADJUSTMENT

Loosen chain take-up locking nuts on outside of front end of trough. Adjust take-up bolts evenly until chain clears main frame members and axle tube by ¾" ½". Inspect shaft bearing mounting bolts and shaft locking collars for tightness of set screws (6 places). Reset take-up locking nuts.

STORAGE

Before storing the spreader for more than a few days, the machine should be emptied completely and thoroughly washed both inside and out. This precaution will minimize the severity of fertilizer acid corrosion, extend the useful life of the machine, and prevent damage to drive line and conveyor chain from fertilizer compaction and caking. We further recommend that the machine be thoroughly greased after washing.

Before operating the machine after extended periods of storage, re-lubricate the entire spreader in accordance with the lubrication section of this manual. Also check the entire spreader, following the New Machine Check-out Procedure to be found in a foregoing section of the manual.

Remember that oil and grease are your least expensive corrosion inhibitors.

ADDITIONAL INSTRUCTIONS

The ground drive is equipped with the following sprocket combinations:

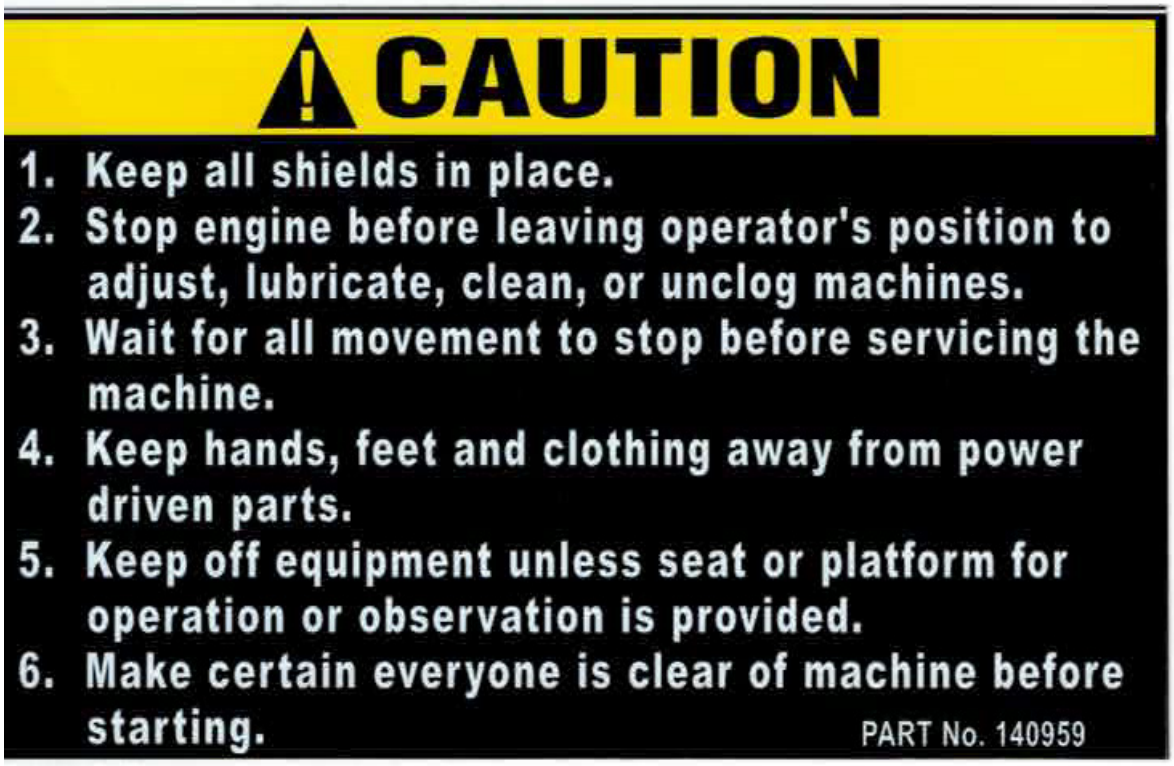
Low Range	Drive Chain on 12 & 72 Tooth Sprockets
High Range	Drive Chain on 24 & 48 Tooth Sprockets

CAUTION

Do not operate your spreader with less than one and a half (1 ½) inch of metering gate opening as material will compact against metering gate and cause failure of the conveyor chain.

CAUTION

Do not disconnect implement from tractor with material remaining in box.



SPREAD ADJUSTMENT AND APPLICATION RATES

For accurate and precise spreading rates, it is necessary that you know the weight in pounds per cubic foot of the material to be spread. If this is not known, the weight can be quickly and accurately determined by the following method:

1. Weigh an empty one gallon container.
2. Fill level full with the material to be used.
3. Weigh container and material, and then subtract the weight of the container to obtain the weight of the material.
4. Multiply the weight of the material by 7.5 to obtain the weight of the material in pounds per cubic foot.

   Example: Typical Material-Potash

   1) Weight of empty one gallon container 1.00 lbs.
   2) Weight of filled container 10.35 lbs.
   3) Weight of container (net) 9.35 lbs.
   4) 9.35 X 7.5 70.125 lbs. /cu ft.

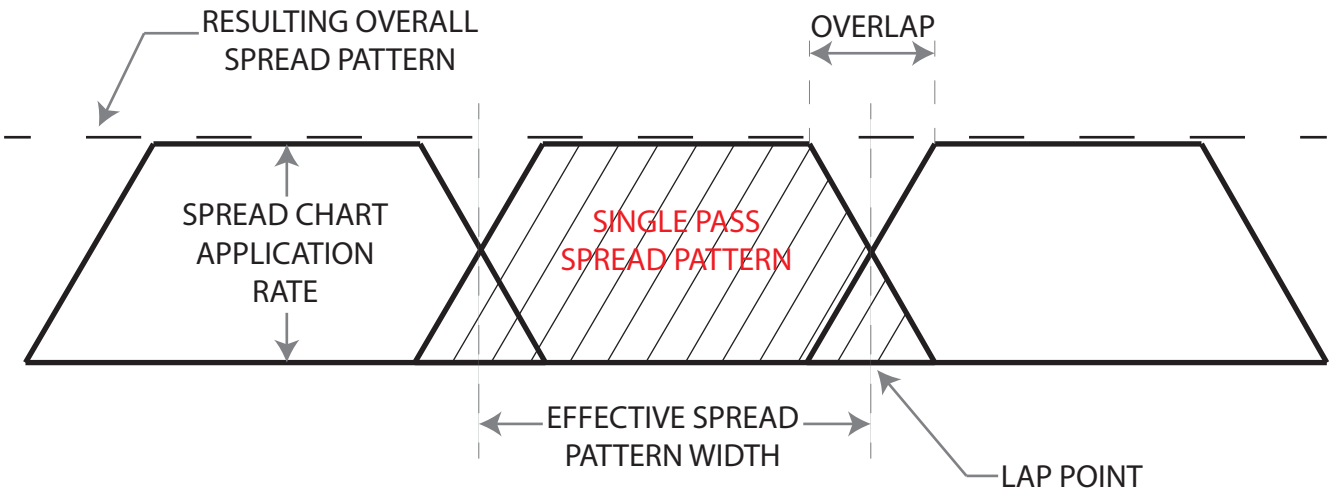
   You would therefore use the column on the Spread Chart headed 70 to determine the proper gate opening for the desired application rate.

You're Mobility Spreader with its heavy-duty distributor discs and blades will apply most materials in a 50 foot wide swath.

SPREAD PATTERN DETAILS

An operational characteristic of this type of machine is the possibility of overloading the distributors at high rates of application. Such an overload results in an alteration of the spread pattern to a narrower swath with heavier application at the center. This can be avoided by reducing speed when using high application rates. MOBILITY DISTRIBUTORS ARE DESIGNED FOR A MAXIMUM APPLICATION RATE OF 1500 POUNDS PER MINUTE OF AVERAGE 60 POUND PER CUBIC FOOT MATERIAL. Caution: Be extra careful to check your spread pattern when using high application rates. Adjust your driving pattern to the actual delivered spread swath, the adjustment of the machine, and the material being used. Recommended ground or travel speed for most application rates (up to 700 pounds per acre) is 8 mph. When application rates are in excess of 700 pounds per acre, the ground speed should be proportionately reduced, (for example, at 1400 pounds per acre, maximum ground speed should be 4 mph.) We recommend that for very high application rates, to insure uniformity of application, that two lighter application passes be made preferably placing your second pass over the lap lines of the first pass. This also is recommended practice when spreading under very windy conditions or with a material that segregates easily. If your effective spread pattern is more than 50 feet wide the Metering Gate setting should be increased proportionately, according to the percentage of your spread width in excess of 50 feet. The gate setting should likewise be decreased if your effective spread pattern is less than 50 feet. EXAMPLE: 60 foot effective spread width—increase gate setting from Spread Chart by 20%; 40 foot effective spread pattern width—decrease your gate setting from Spread Chart setting by 20%. Your spread pattern can be checked accurately and visually on a freshly worked, level area of ground. Such an area is also ideally suited to adjusting and fine tuning your machine. The following diagram graphically illustrates a typical spread pattern.

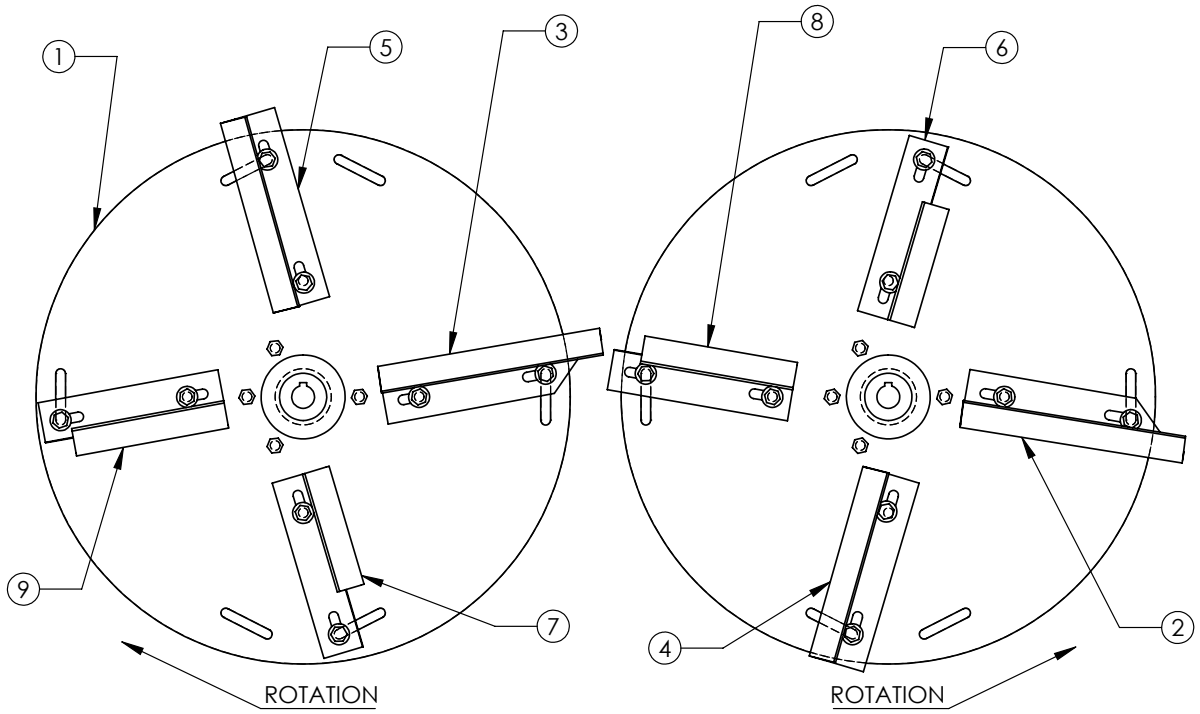
Note on the illustration below that the lap point occurs at the point where the application rate is one-half of the spread chart rate. The profile of the spread pattern tapers at both edges and has a wide uniform area in the center. By careful attention to the lap point during application, a very uniform and even spread rate can be attained. The Mobility Spreaders have been designed to provide this good and uniform tapered profile to make spread width less critical. However, excessive or insufficient overlap of passes will result in a poor application pattern in the lap area of the total spread pattern. If you can attain this spread pattern and pay careful attention to the lap points, the dotted line on the illustration will represent your actual overall spread pattern.



STANDARD SPREAD SETUP

STANDARD SPREAD, BLADE SETUP

#	PART NUMBER	QTY.
1	1003727 DISTRIBUTOR DISC	2
2	MS 1001662 EXTRA LONG DISTRIBUTOR BLADE, 8, RIGHT	1
3	MS 1001705 EXTRA LONG DISTRIBUTOR BLADE, 8, LEFT	1
4	MS 1001718 7 INCH DISTRIBUTOR BLADE, RIGHT	1
5	MS 1001719 7 INCH DISTRIBUTOR BLADE, LEFT	1
6	MS 1001924 4.375 DISTRIBUTOR BLADE, RIGHT	1
7	MS 1001925 4.375 DISTRIBUTOR BLADE, LEFT	1
8	MS 1001926 DISTRIBUTOR BLADE, 5.5, RIGHT	1
9	MS 1001927 DISTRIBUTOR BLADE, 5.5, LEFT	1



VIEWED FROM BACK OF SPREADER

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CONFIG.	STANDARD SPREAD PATERN, BLADE SETUP		

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COMMENTS:

DWG: STANDARD SPREAD, BLADE SETUP

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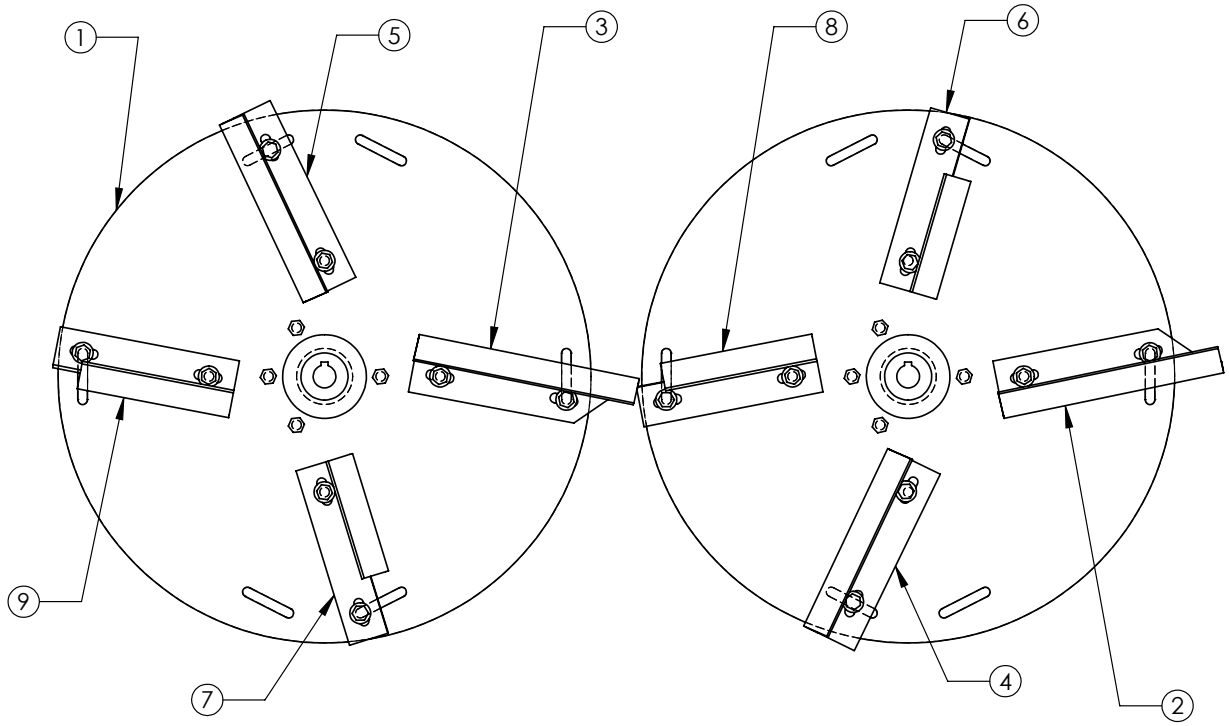
60’ SPREAD SETUP

60 FT SPREAD SET UP

#	PART NUMBER	QTY.
1	1003727 DISTRIBUTOR DISC	2
2	MS 1001662 EXTRA LONG DISTRIBUTOR BLADE, 8, RIGHT	1
3	MS 1001705 EXTRA LONG DISTRIBUTOR BLADE, 8, LEFT	1
4	MS 1001718 7 INCH DISTRIBUTOR BLADE, RIGHT	1
5	MS 1001719 7 INCH DISTRIBUTOR BLADE, LEFT	1
6	MS 1001924 4.375 DISTRIBUTOR BLADE, RIGHT	1
7	MS 1001925 4.375 DISTRIBUTOR BLADE, LEFT	1
8	MS 1001926 DISTRIBUTOR BLADE, 5.5, RIGHT	1
9	MS 1001927 DISTRIBUTOR BLADE, 5.5, LEFT	1



VIEWED FROM BACK OF SPREADER

	TO SET UP FOR 60' SPREAD PATTERN
1	MOVE BLADES #**4** &#**5** BACK TO MIDDLE OF BACK SLOT.
2	MOVE BLADES #**2** & #**3** TO ADVANCED POSITION (FRONT OF SLOT)
3	MOVE BLADES #**8** & #**9** TO ADVANCED POSITION (FRONT OF SLOT)
4	DO NOT MOVE BLADES #**6** & #**7** AT ALL. THEY SHOULD BE ADVANCED IN BACK SLOT

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CHECKED BY			
PRINT DATE	4/20/2015		
CONFIG.	60 FT SPREAD PATTERN, BLADE SETUP		

COMMENTS:

DWG: 60 FT SPREAD SET UP

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SCALE: 1:6 SHEET 1 OF 1

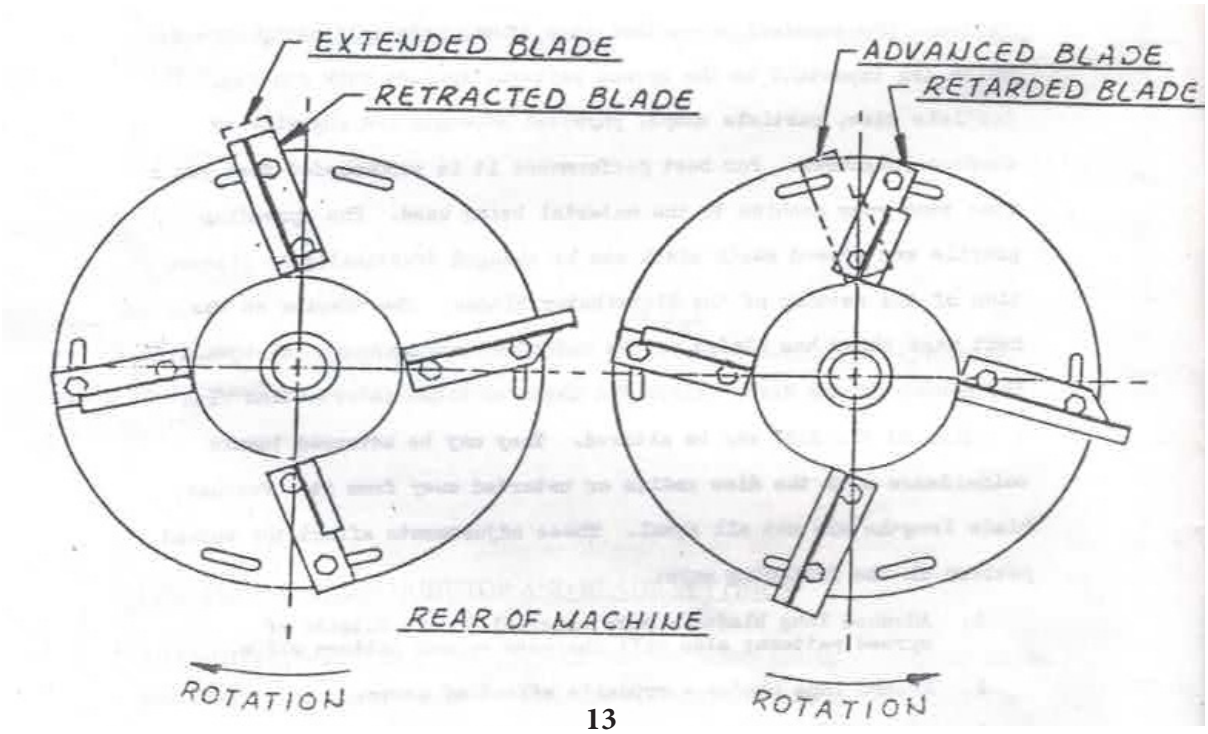
DISTRIBUTOR BLADE TUNING

FINE TUNING OF DISTRIBUTOR AND BLADE SETTINGS

All Mobility Spreaders are given an average standard factory setting of distributor blades. Such a setting, of course, cannot be perfect for all field conditions and materials. The following information will be helpful in adjusting the distributor blades on your machine to give optimum performance for your specific conditions.

Your spread pattern will be affected by 1) the material used, 2) the distributor blade setting, and 3) the rotation speed of the distributors. The distributors are designed to be operated at 750 RPM (540 tractor P.T.O. RPM). A plus or minus 10% change in distributor RPM will increase or decrease spread pattern width accordingly. An increase in PTO RPM will tend to deposit less material at the center of the spread pattern, while a decrease will deposit more material at the center. The physical characteristics of the materials being spread, which are important to the spread pattern, include bulk density, particle size, particle shape, physical strength and rugosity or surface roughness. For best performance it is recommended that you fine tune your machine to the material being used. The spreading profile and spread swath width can be changed drastically by alteration of the setting of the distributor blades. The drawing on the next page shows had blades may be extended from or retracted toward the center of the disc. Also, the angle of blade intersection with a radius of the disc may be altered. They may be advanced toward coincidence with the disc radius or retarded away from it. Further, blade lengths are not all equal. These adjustments affect the spread pattern in the following ways:

1. Advance long blades--more material to the outside of spread pattern; also will increase spread pattern width.
2. Retard long blades--opposite effect of above.
3. Advance short blades—helps eliminate problem of streaking in the middle of spread pattern.
4. Retard short blades—puts more material in the center of spread pattern.
5. Extend blades away from center of spinner—increases spread width somewhat.
6. Retract blades (more towards center of spinner)—opposite effect of above.
7. Moving flow divider (or chute) toward the front of spreader will tend to put more material in center of spread pattern. This is because material is deposited on outer edge of spinner causing it to leave earlier.
8. Moving divider toward the rear of the spreader has the opposite effect.



40’ SPREAD

NOTICE

APPROXIMATELY 40 FT. SPREAD

800.342.7498

LOW RANGE

12 TO 72 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	45	50	55	60	65	70	75
1	55	63	69	76	83	90	96	104
1.5	83	93	103	114	124	135	145	155
2	110	124	138	151	165	179	193	206
2.5	138	155	171	189	206	224	240	258
3	165	186	206	228	248	269	289	310
3.5	193	216	241	265	289	314	338	359
4	220	248	275	303	330	358	385	413
4.5	248	279	310	341	371	403	434	464
5	275	310	344	379	413	448	481	516

HIGH RANGE

24 TO 48 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	45	50	55	60	65	70	75
1	165	186	206	228	248	269	290	310
1.5	248	279	310	341	371	404	435	465
2	330	371	413	454	495	538	580	620
2.5	413	464	515	568	619	673	725	775
3	495	558	619	681	743	806	869	930
3.5	578	650	721	794	866	941	1014	1085
4	660	743	825	908	990	1075	1158	1240
4.5	743	836	929	1021	1114	1210	1303	1394
5	825	929	1031	1135	1238	1344	1448	1550

APPLICATION RATE EXPRESSED IN POUNDS PER ACRE

MOBILITY BY DALTON AG

PART NO. 1001118-40

50’ SPREAD

NOTICE

APPROXIMATELY 50 FT. SPREAD

800.342.7498

LOW RANGE

12 TO 72 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	**45**	**50**	**55**	**60**	**65**	**70**	**75**
1	44	50	55	61	66	72	77	83
1.5	66	74	82	91	99	108	116	124
2	88	99	110	121	132	143	154	165
2.5	110	124	137	151	165	179	192	206
3	132	149	165	182	198	215	231	248
3.5	154	173	193	212	231	251	270	287
4	176	198	220	242	264	286	308	330
4.5	198	223	248	273	297	322	347	371
5	220	248	275	303	330	358	385	413

HIGH RANGE

24 TO 48 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	**45**	**50**	**55**	**60**	**65**	**70**	**75**
1	132	149	165	182	198	215	232	248
1.5	198	223	248	273	297	323	348	372
2	264	297	330	363	396	430	464	496
2.5	330	371	412	454	495	538	580	620
3	396	446	495	545	594	645	695	744
3.5	462	520	577	635	693	753	811	868
4	528	594	660	726	792	860	926	992
4.5	594	669	743	817	891	968	1042	1115
5	660	743	825	908	990	1075	1158	1240

APPLICATION RATE EXPRESSED IN POUNDS PER ACRE

MOBILITY BY DALTON AG

PART NO. 1001118-40

60’ SPREAD

NOTICE

APPROXIMATELY 60 FT. SPREAD

800.342.7498

LOW RANGE

12 TO 72 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	**45**	**50**	**55**	**60**	**65**	**70**	**75**
1	37	42	46	51	60	60	64	69
1.5	55	62	68	76	90	90	97	103
2	73	82	92	101	119	119	128	137
2.5	92	103	114	126	149	149	160	172
3	110	124	137	152	179	179	192	207
3.5	128	144	161	177	209	209	225	239
4	147	165	183	202	238	238	257	275
4.5	165	186	207	227	268	268	289	309
5	183	207	229	252	298	298	321	344

HIGH RANGE

24 TO 48 T.

GATE OPENING	MATERIAL WEIGHT IN POUNDS PER CUBIC FOOT							
	40	**45**	**50**	**55**	**60**	**65**	**70**	**75**
1	110	124	137	152	165	179	193	207
1.5	165	186	207	227	247	269	290	310
2	220	247	275	302	330	358	387	413
2.5	275	309	343	378	412	448	483	517
3	330	372	412	454	495	537	579	620
3.5	385	433	481	529	577	627	676	723
4	440	495	550	605	660	717	772	827
4.5	495	557	619	681	742	807	868	929
5	550	619	687	757	825	896	956	1033

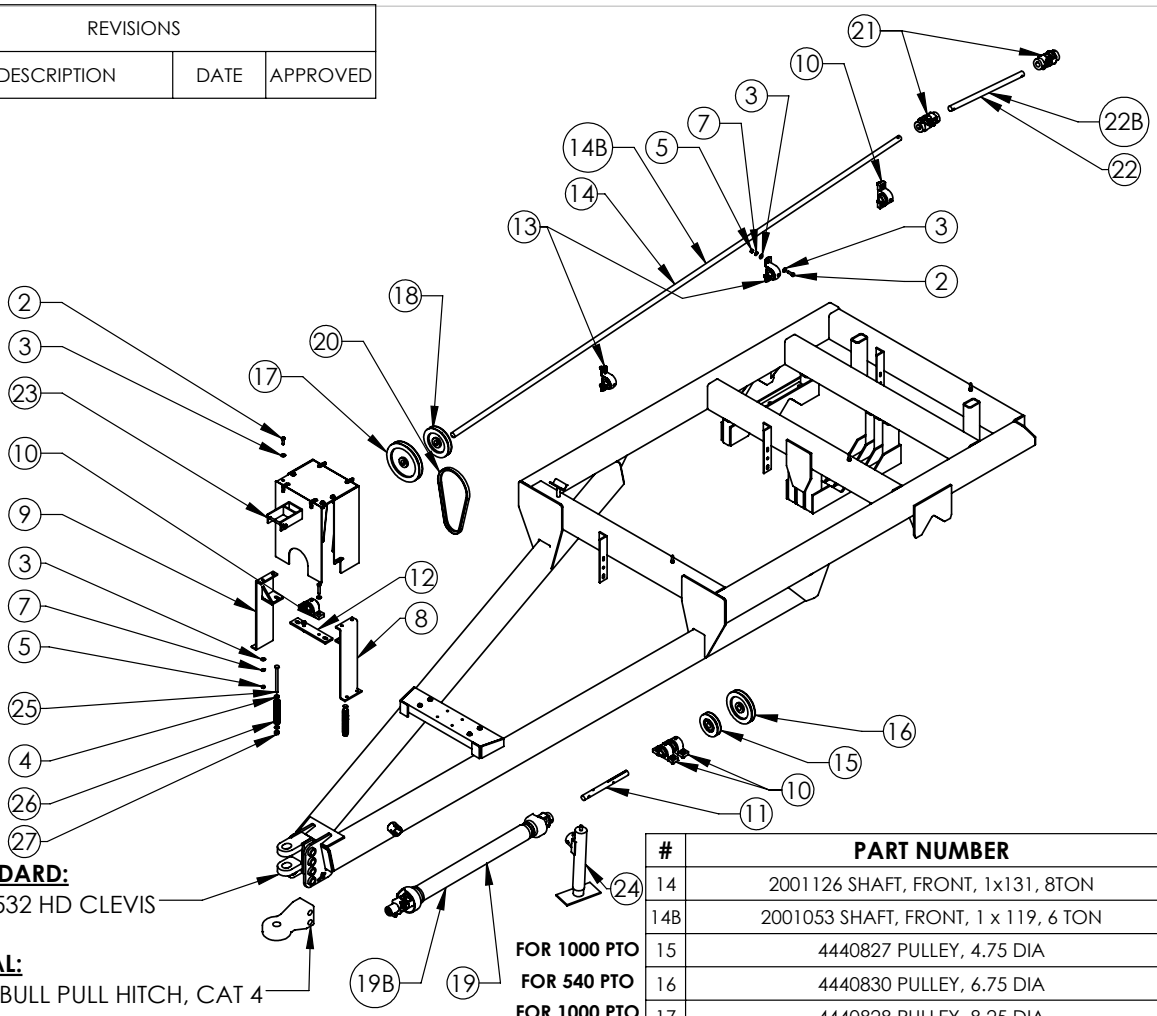
APPLICATION RATE EXPRESSED IN POUNDS PER ACRE

MOBILITY BY DALTON AG

PART NO. 1001118-40

FRAME AND DRIVELINE 600 & 800

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



STANDARD:
4420532 HD CLEVIS

OPTIONAL:
4440918 BULL PULL HITCH, CAT 4

#	PART NUMBER	Q
1	6 TON & 8 TON FRAME	1
2	151805 BOLT, .375 NC x 1.25, PLTD	12
3	150212 FLAT WASHER, .375 PLTD	40
4	150212 FLAT WASHER, .375 PLTD	4
5	150005 NUT, .375 NC, PLTD	20
6	151806 BOLT, .375 NC x 1.5, G5, PLTD	6
7	150210 LOCK WASHER, .375	20
8	2001125 SHIELD, MOUNTING BRACKET WELMENT, RH	1
9	2001124 SHIELD, MOUNTING BRACKET WELDMENT, LH	1
10	640511 PILLOW BLOCK BEARING	4
11	MS 1004197 SHAFT	1
12	2001052 BEARING ARM, FRONT	1
13	1008456 SPLIT POLY BEARING & HOUSING	2
13B	1009336 SPLIT POLY INSERT ONLY	2

	#	PART NUMBER	Q
	14	2001126 SHAFT, FRONT, 1x131, 8TON	1
	14B	2001053 SHAFT, FRONT, 1 x 119, 6 TON	1
FOR 1000 PTO	15	4440827 PULLEY, 4.75 DIA	1
FOR 540 PTO	16	4440830 PULLEY, 6.75 DIA	1
FOR 1000 PTO	17	4440828 PULLEY, 8.25 DIA	1
FOR 540 PTO	18	4440829 PULLEY, 6.25 DIA	1
	19	4440854 1000 RPM PTO SHAFT	1
	19B	1009228 PTO COMPLETE, 540 12N	1
	20	1007099 BELT	1
	21	641667 U-JOINT, DRIVE SHAFT	2
	22	2001127 SHAFT, BACK, 1 x 21, 8 TON	1
	22B	2001054 SHAFT, BACK, 1 x 26, 6 TON	1
	23	RC 4420418 PTO SHIELD	1
	24	4440245 SHORT 5000 LBS JACK	1
	25	1001885 CARRIAGE BOLT, .4375 x 6	2
	26	1001636 SPRING	2
	27	158039 LOCK NUT, .4375	2
	28	4420532-HD HITCH CLEVIS	1
	29	4440918 BULL PULL HITCH, CAT 4	1
	30	151811 BOLT, .375 NC x 2, G5, PLTD	2

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PRINT DATE	4/20/2015	
CONFIG.	FRAME & DRIVELINE- 600-800 ROW CROP	

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COMMENTS:

DWG: FRAME & DRIVELINE- 600-800 ROW CROPS

SIZE	SHEET TITLE:	REV
A	Sheet1	A

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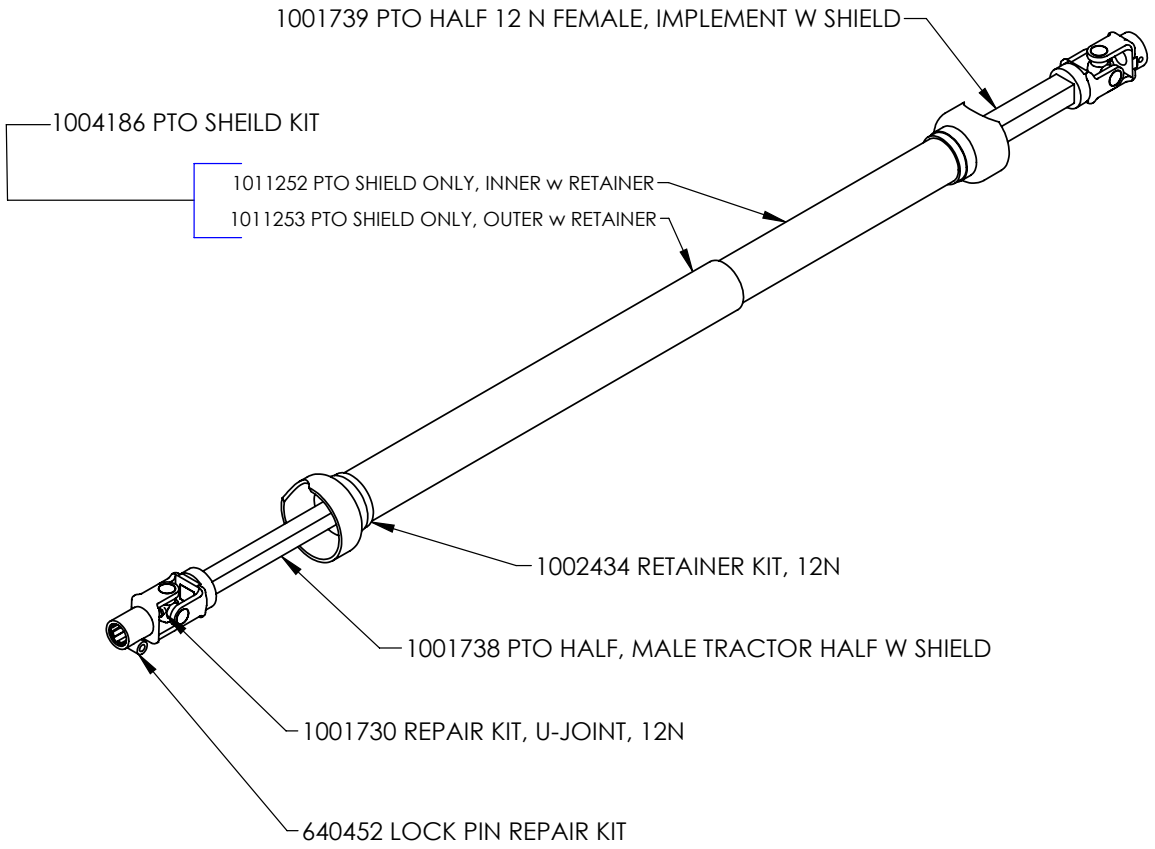
SCALE: 1:33 SHEET 1 OF 1

540 PTO

1009228 PTO COMPLETE, 540 12N



DRAWN BY	RICH SMOTHERS	7/7/2014	
CHECKED BY			
PRINT DATE	7/28/2014		
CONFIG.	Default		

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COMMENTS:

DWG: 1009228 540 RPM PTO SHAFT OPTION

SIZE	SHEET TITLE:	REV
A	Sheet1	A

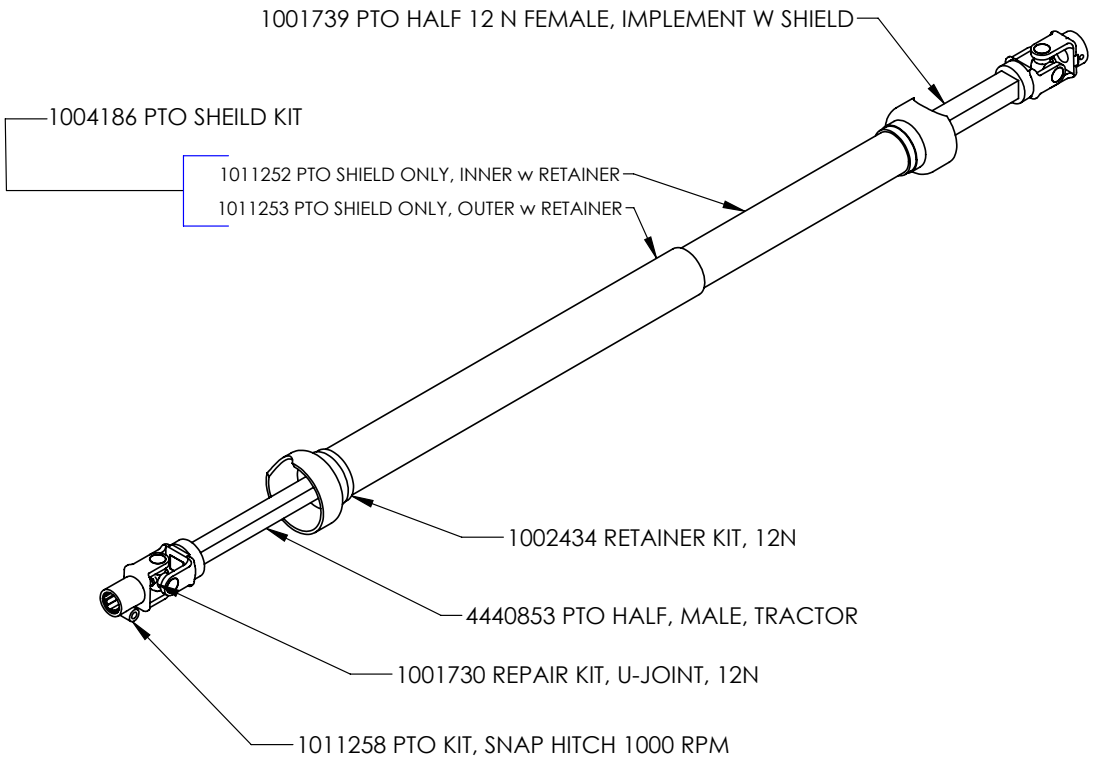
FOR PARTS, CALL 1.800.342.7498

SCALE: 1:10 | SHEET 1 OF 1

1000 PTO

4440854 1000 RPM PTO SHAFT

4440854 1000 RPM PTO SHAFT



DRAWN BY	RICH SMOTHERS	7/7/2014	Dalton AG PRODUCTS www.DaltonAg.com
CHECKED BY			
PRINT DATE	7/28/2014		
CONFIG.	Default		

COMMENTS:

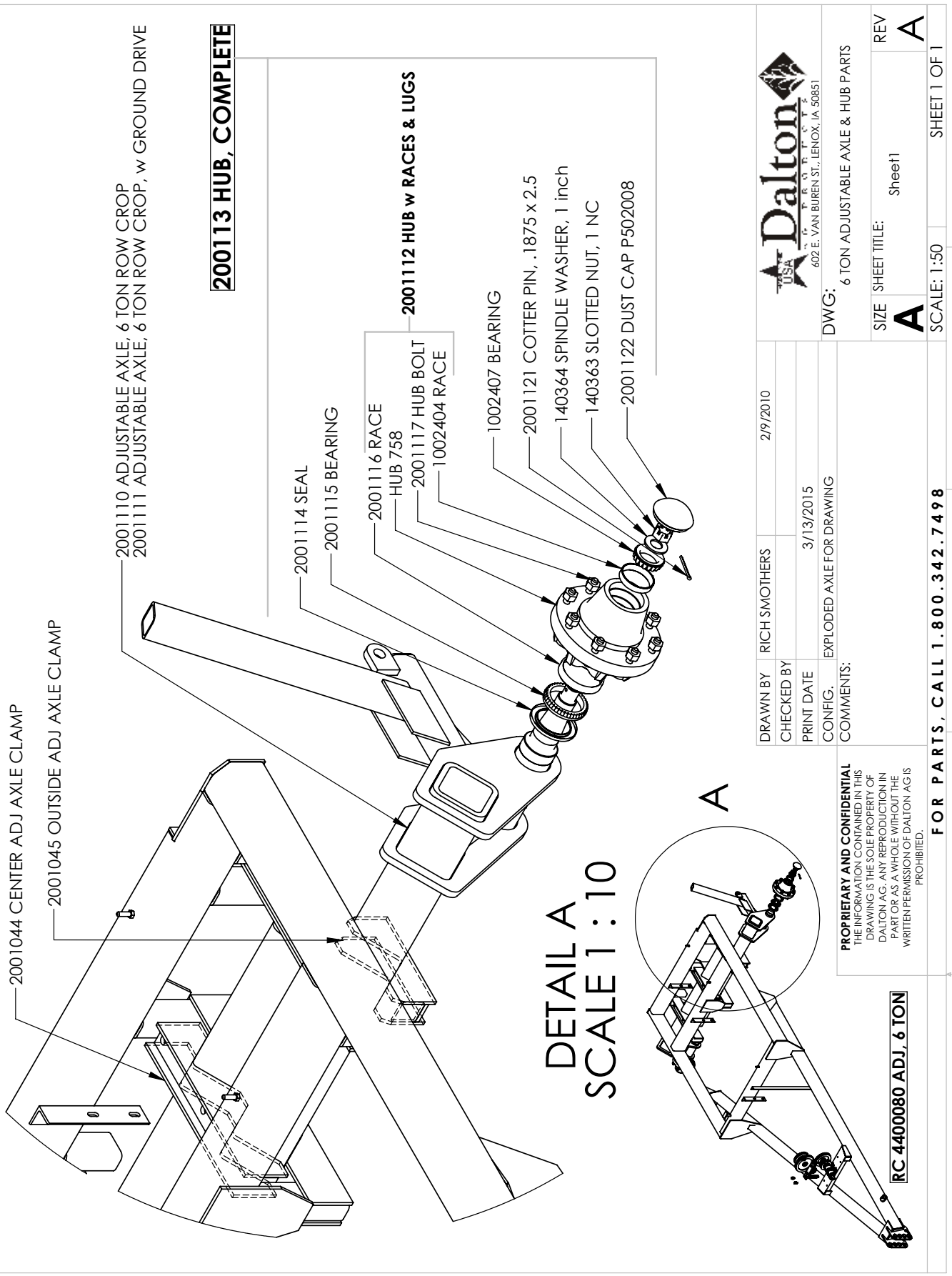
DWG: 4440854 1000 RPM PTO SHAFT

SIZE	SHEET TITLE:	REV
A	Sheet1	A

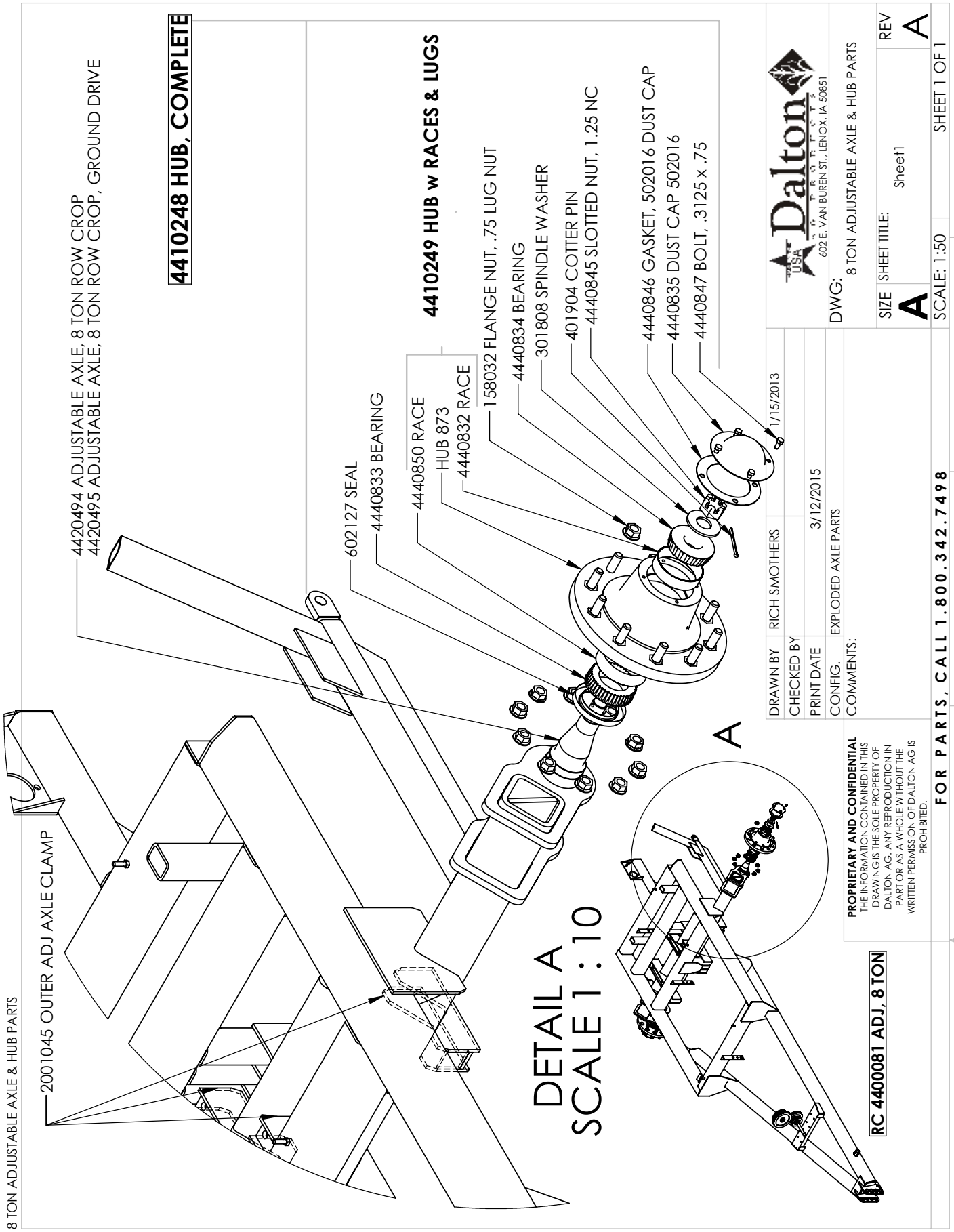
FOR PARTS, CALL 1.800.342.7498

SCALE: 1:10 SHEET 1 OF 1

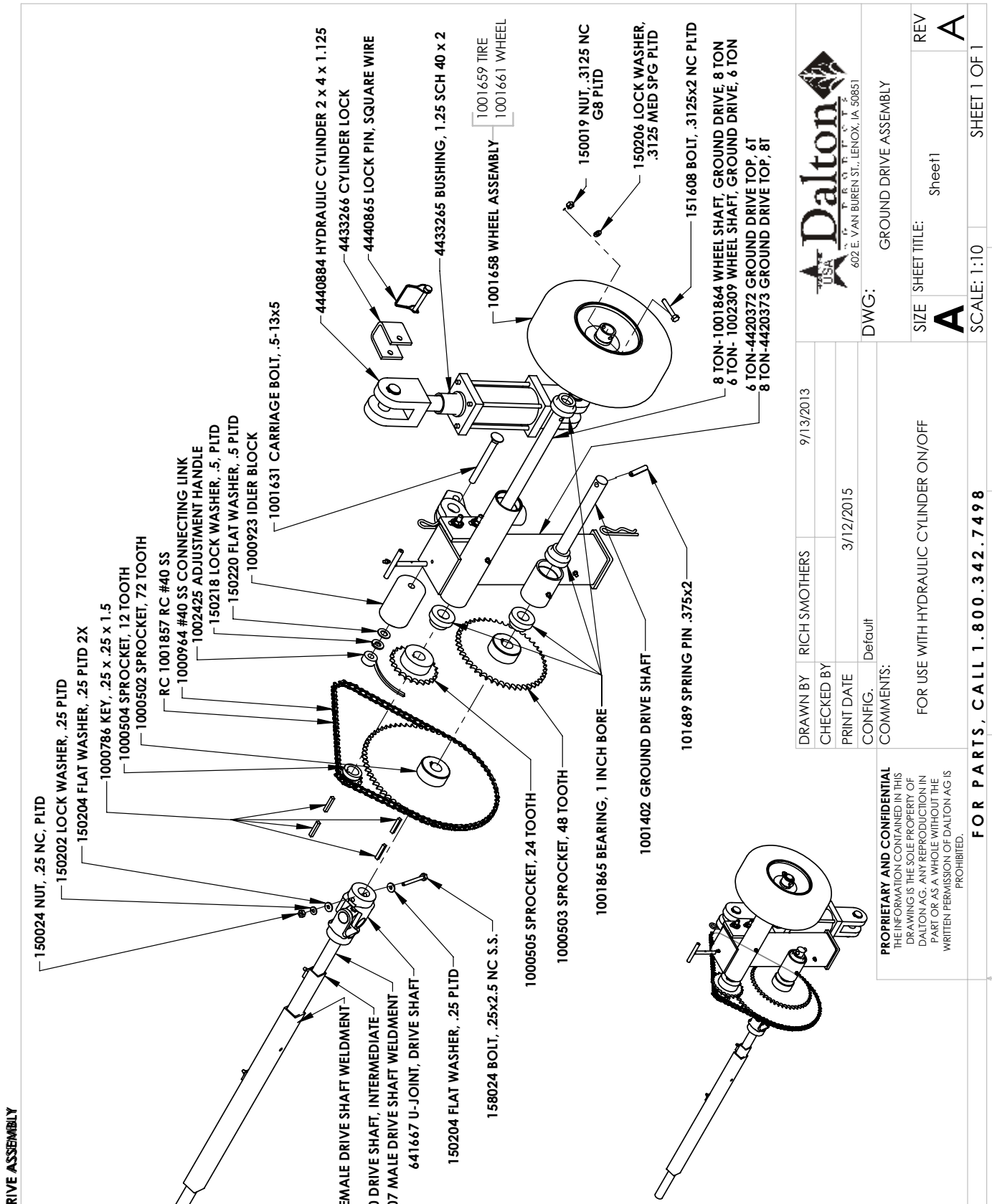
6 TON AXLE/HUB PARTS



8 TON AXLE/HUB PARTS

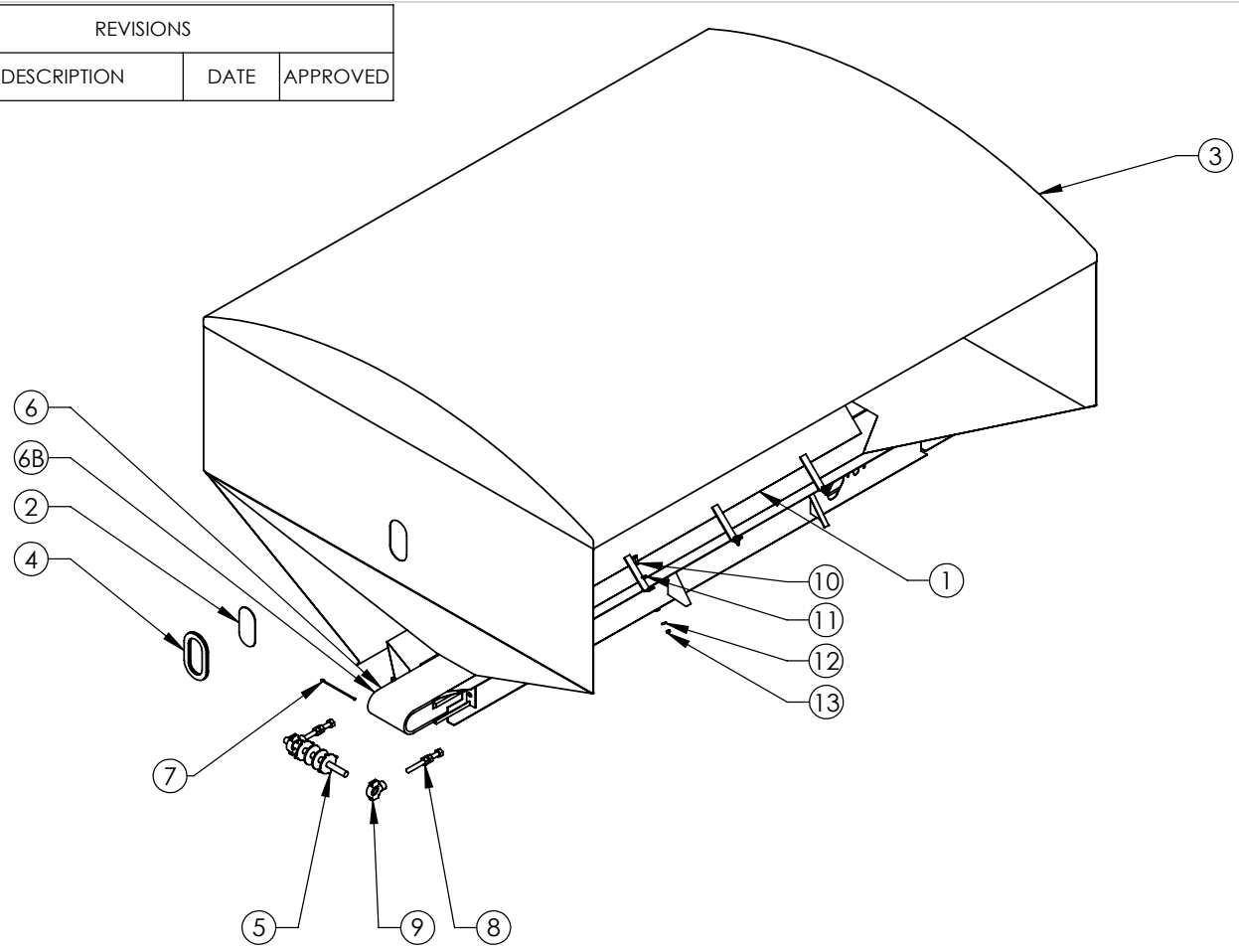


GROUND DRIVE ASSEMBLY



FRONT TANK ASSEMBLY

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



#	PART NUMBER	Q
1	MS 4420474 CONVEYOR SHIELD WELDMENT, 8 TON	1
2	4440883 SIGHT GLASS	1
3-800	4440882 ROLL TARP, 93 x 120, MOBILITY 8 TON	1
3-600	4440881 ROLL TARP, 93 x 108, MOBILITY 6 TON	1
4	4440868 WINDOW GASKET	1
5	2001001 FRONT ROLLER	1
6	1004085 DRAG CHAIN, 8 TON	1
6B	1008449 DRAG CHAIN, 6 TON	1
7	1000956 CONVEYOR SPLICE PIN	1
8	640519 BOLT, TAKE UP	2
9	640079 BEARING, TAKE-UP	2
10	151805 BOLT, .375 NC x 1.25, PLTD	8
11	150212 FLAT WAHSER, .375 PLTD	16
12	150209 LOCK WASHER, .375, PLTD	8
13	150005 NUT, .375 NC, PLTD	8

****OPTIONAL TARP ITEMS**

PART NUMBER	Q
2001106 TARP POLE	1
2001138 TARP, FITTED VINYL WITH SHOCK CORD, 93 x 120 FOR MOBILITY 800	1
1008453 TARP, FITTED VINYL WITH SHOCK CORD, 93 X 108 FOR MOBILITY 600	1

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PRINT DATE	7/28/2014	
CONFIG.	FRONT TANK ASSEMBLY, ROW CROP	

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COMMENTS:

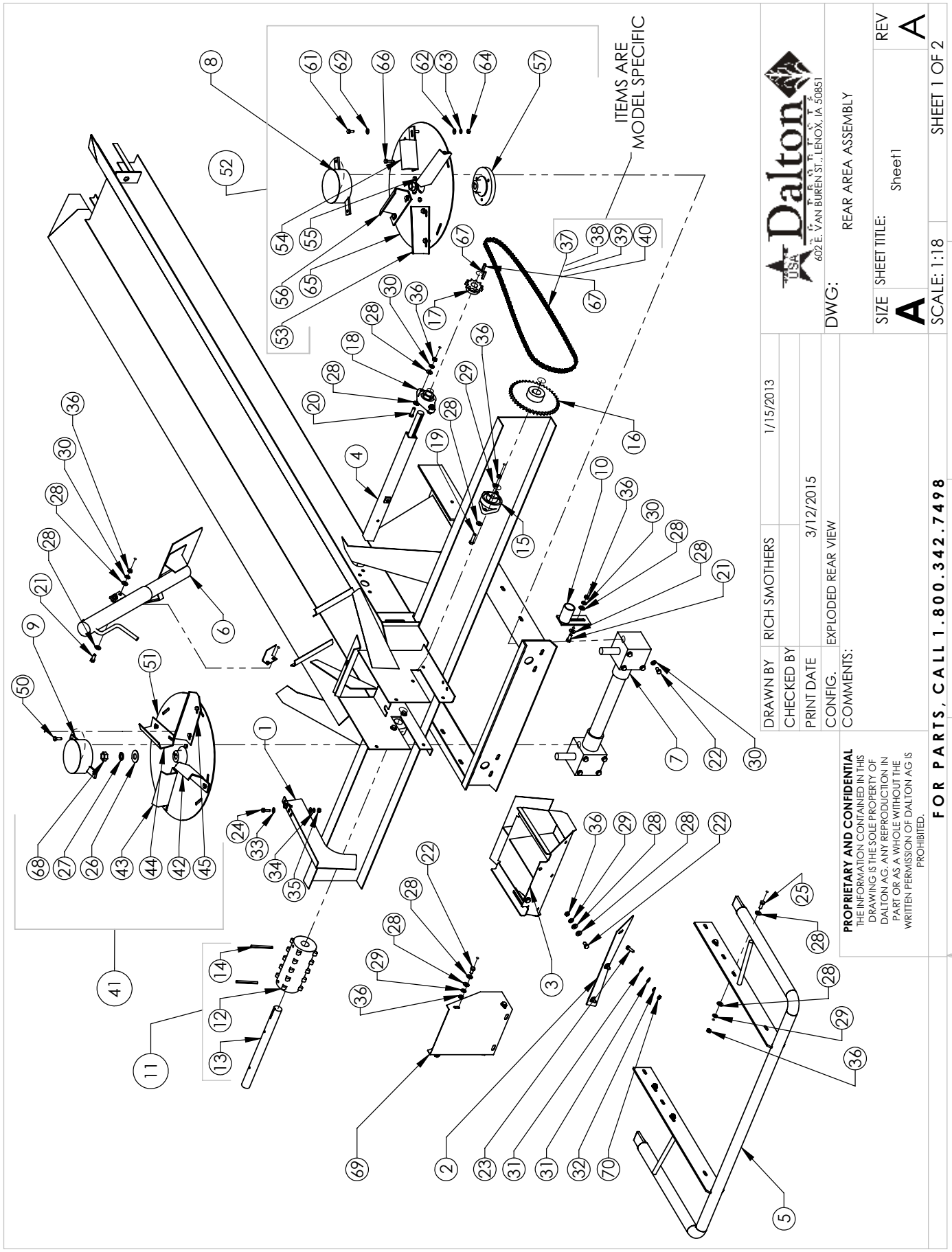
DWG: FRONT TANK ASSEMBLY, ROW CROP

SIZE	SHEET TITLE:	REV
A	Sheet1	A

FOR PARTS, CALL 1.800.342.7498

SCALE: 1:30 SHEET 1 OF 1

REAR AREA ASSEMBLY



REAR AREA ASSEMBLY

#	PART NUMBER	Q
1	MS 2001004 PARTER PLATE	1
2	MS 1001501 DIVIDER	1
3	MS 1001379 DIVIDER WELDMENT	1
4	2001108 WLD, FEMALE 0.5, DRIVE SHAFT	1
5	1008033 BUMPER WELDMENT	1
6	1004557 GATE JACK WELDMENT	1
7	1003737 GEAR BOX SET	1
8	1001717 DISC CAP WELDMENT R.H.	1
9	1001716 DISC CAP WELDMENT L.H	1
10	1000961 #50 CHAIN IDLER WELDMENT	1
11	1000838 DRIVE SPROCKET ASSEMBLY	1
12	1000684 CAST SPROCKET, MACHINED	1
13	1000644 SPROCKET SHAFT	1
14	158035 ROLL PIN .3125 x 3.5	2
15	1000646 BEARING, 1.25 BORE 2-BOLT FLANGE	2
16	1000507 SPROCKET 50B36	1
17	1000506 SPROCKET, 50B12	1
18	640034 BEARING, 1 INCH BORE 2-BOLT	1
19	151806 BOLT, .375 NC x 1.5, G5, PLTD	4
20	151805 BOLT, .375 NC x 1.25, PLTD	2
21	151802 BOLT, .375 NC x 1, PLTD	3
22	151801 BOLT, .375 NC x .75, PLTD	14
23	151603 .3125x1 NC PLTD BOLT	3
24	151414 BOLT, .25x1 HH NC PLTD	2
25	150614 BOLT, .375x1 NC PLTD	4
26	150227 FLAT WASHER, .75 PLTD	2
27	150226 LOCK WASHER, .75, PLTD	2
28	150212 FLAT WASHER, .375 PLTD	34
29	150210 LOCK WASHER, .375	14
30	150209 LOCK WASHER, .375, PLTD	13
31	150208 WASHER, .3125 STD Z PLTD	6
32	150206 LOCK WASHER, .3125 MED SPG PLTD	3
33	150204 FLAT WASHER, .25 PLTD	4
34	150202 LOCK WASHER, .25 PLTD	2
35	150024 NUT, .25 NC, PLTD	2
36	150005 NUT, .375 NC, PLTD	19
37	4432166-108 STAINLESS #50 CHAIN, 108 PITCH w CONNECTOR (8 TON)	1
38	4432166-125 STAINLESS #50 CHAIN, 125 PITCH w CONNECTOR (6 TON)	1
39	641318 LINK	1
40	641319 1/2 LINK (OFFSET) (6 TON)	1
41	1003733 DISTRIBUTOR DISC ASSEMBLY, L.H.	1
42	MS 1001925 4.375 DISTRIBUTOR BLADE, LEFT	1
43	MS 1001927 DISTRIBUTOR BLADE, 5.5, LEFT	1
44	MS 1001719 7 INCH DISTRIBUTOR BLADE, LEFT	1
45	MS 1001705 EXTRA LONG DISTRIBUTOR BLADE, 8, LEFT	1
46	1003709 SPINNER HUB, STANDARD	1
47	150019 NUT, .3125 NC G8 PLTD	12
48	150209 LOCK WASHER, .375, PLTD	4
49	151602 BOLT .3125 x .75 NC PLTD	10
50	1010175 BOLT .3125 x 1 NC	2
51	1003727 DISTRIBUTOR DISC	1
52	1003734 DISTRIBUTOR DISC ASSEMBLY, RH	1
53	MS 1001718 7 INCH DISTRIBUTOR BLADE, RIGHT	1
54	MS 1001924 4.375 DISTRIBUTOR BLADE, RIGHT	1
55	MS 1001662 EXTRA LONG DISTRIBUTOR BLADE, 8, RIGHT	1
56	MS 1001926 DISTRIBUTOR BLADE, 5.5, RIGHT	1
57	1003709 SPINNER HUB, STANDARD	1
58	151603 .3125x1 NC PLTD BOLT	4
59	150209 LOCK WASHER, .375, PLTD	4
60	150019 NUT, .3125 NC G8 PLTD	4
61	151407 BOLT, .25 NC x .75 PLTD	6
62	150204 FLAT WASHER, .25 PLTD	16
63	150202 LOCK WASHER, .25 PLTD	8
64	150024 NUT, .25 NC, PLTD	8
65	1003727 DISTRIBUTOR DISC	1
66	151419 BOLT, .25x1.25 HH NC PLTD	2
67	641653 KEY, .25 x .25 x 1.25	2
68	150124 NUT, NF, SS	2
69	1001390 TROUGH EXTENSION BACK	1
70	1001633 LOCK NUT, .3125	3

****1004466 DISTRIBUTOR BLADE SET INCLUDES BOTH RIGHT SIDE AND LEFT SIDE BLADES.**

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PRINT DATE		
CONFIG.		

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COMMENTS:

DWG: REAR AREA ASSEMBLY

SIZE A | SHEET TITLE: Sheet2 | REV A

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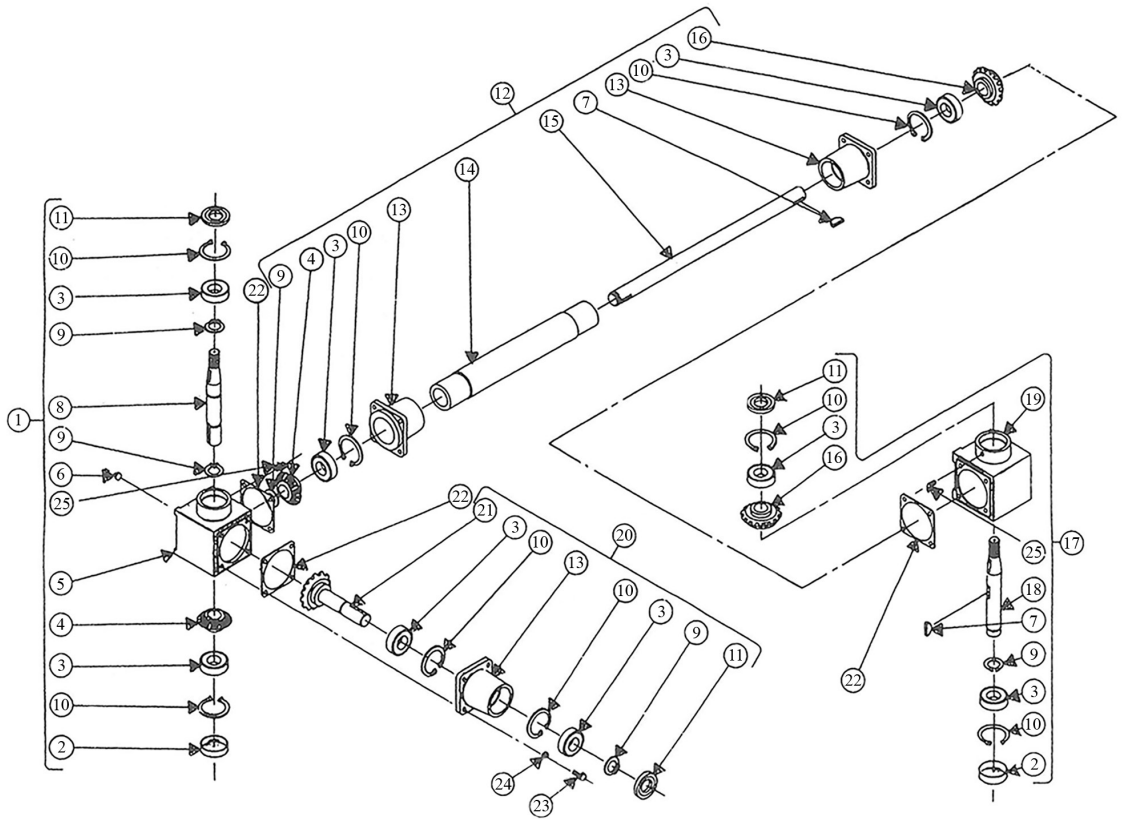
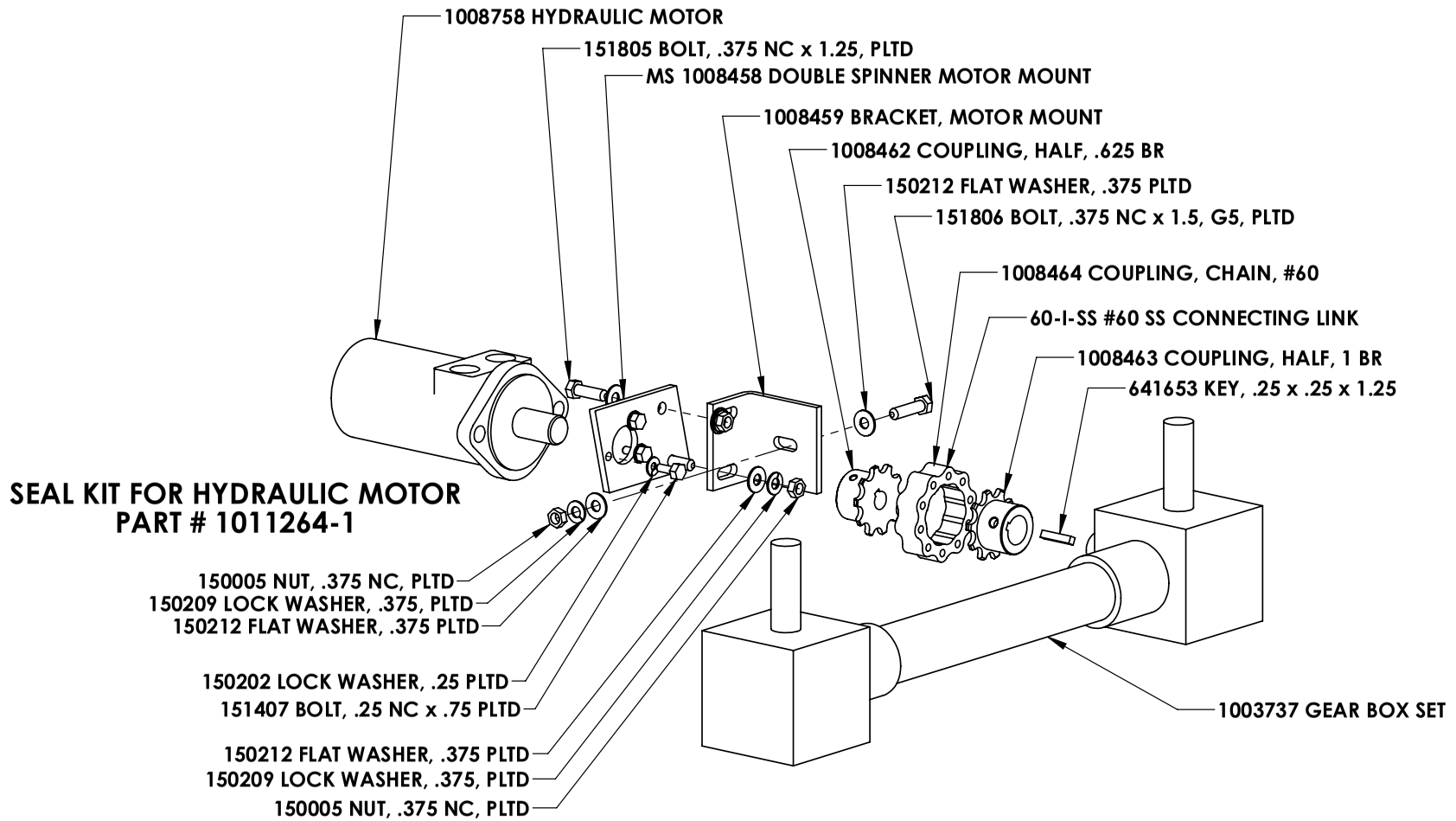
SCALE: 1:20 | SHEET 2 OF 2

DISTRIBUTOR GEAR BOX
#1003737



ITEM	PART #	DESCRIPTION	QTY
1	1003735	BOX ASSEMBLY, RH	1
2	1000938	PLUG, SOFT	2
3	1000932	BEARING	8
4	1002426	GEAR	2
5	1000936	HOUSING, RH	1
6	1006856	OIL PLUG	2
7	1000935	KEY, WOODRUFF	2
8	1003730	SHAFT, TAPERED	1
9	1000933	RETAINER RING	5
10	1000931	RETAINER RING	8
11	1000930	SEAL	3
12	1001206	TUBE ASSEMBLY	1
13	1000944	HOUSING BARREL	3
14	1000941	TUBE ASSEMBLY	1
15	1002417	SHAFT, TAPERED	1
16	1000945	PINION GEAR	2
17	1003736	BOX ASSEMBLY, LH	1
18	1003730	SHAFT, TAPERED	1
19	1000947	HOUSING, LH	1
20	1001205	BARREL ASSEMBLY	1
21	1000948	SHAFT & GEAR ASSEMBLY	1
22	1000940	GASKET	3
23	1000834	HHCS, 5/16-18 x 3/4”	12
24	1000836	LOCK WASHER, 5/16”	12
25	1003742	45 DEGREE GREASE ZERK	2

HYDRAULIC SPINNER GEAR BOX



DRAWN BY	RICH SMOTHERS	4/3/2013
CHECKED BY		
PRINT DATE	7/28/2014	
CONFIG.	Default	
COMMENTS:		

Dalton USA AG PRODUCTS
602 E. VAN BUREN ST., LENOX, IA 50851

DWG: ROW CROP HYD SPINNERS

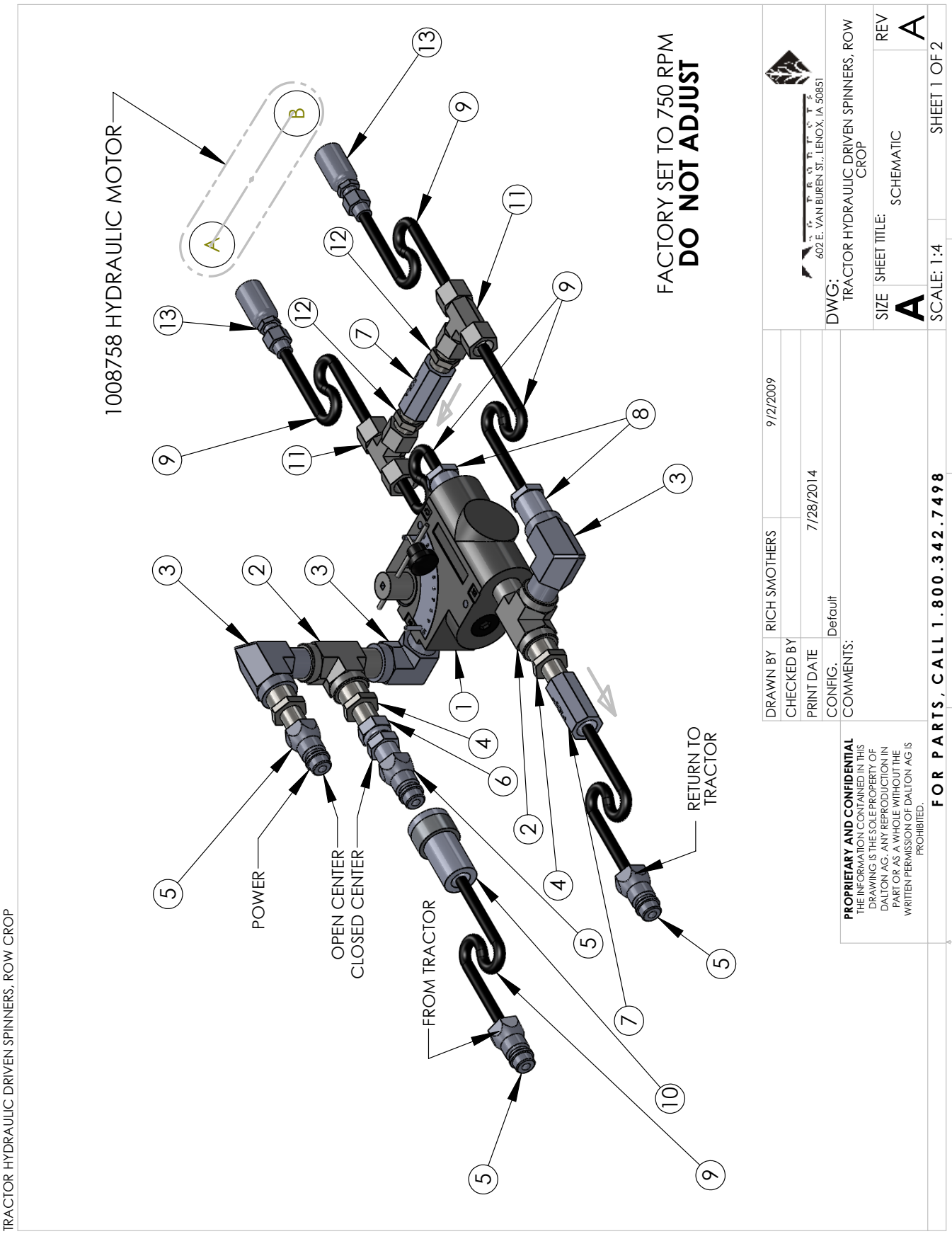
SIZE	SHEET TITLE:	REV
A	Sheet1	A

FOR PARTS, CALL 1.800.342.7498

SCALE: 1:5 SHEET 1 OF 1

5 4 3 2 1

TRACTOR HYDRAULIC DRIVEN SPINNERS - ROW CROP



ITEM NO.	PART NUMBER	QTY.
1	FC51-3 4, HYDRAULIC REGULATOR	1
2	5602-12 T COUPLER, F-F-M, .75 INCH NPT	2
3	5502-12 ST ELBOW, 90 DEGREE, .5 INCH	3
4	540412-8, 2 INCH ADAPTER, .5INCH-.75 INCH NPT	3
5	8010-4 PIONEER FITTING, .5 INCH	4
6	641679 RESTRICTOR, .06, .5 INCH NPT	1
7	PMR10 CHECK VALVE, .5 INCH NPT	2
8	140412-8 ADAPTER, .5-.75 INCH NPT	2
9	HOSE, .375 INCH	6
10	4050-12 PIONEER FITTING, FEMALE, .5 INCH NPT	1
11	1603-8-8 T COUPLER, .5 INCH NPT	2
12	5404-8, 2 INCH NIPPLE, .5INCH NPT	2
13	.5 O RING FITTING	2

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PRINT DATE		
CONFIG.		
COMMENTS:		

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DWG: TRACTOR HYDRAULIC DRIVEN SPINNERS, ROW CROP, p2

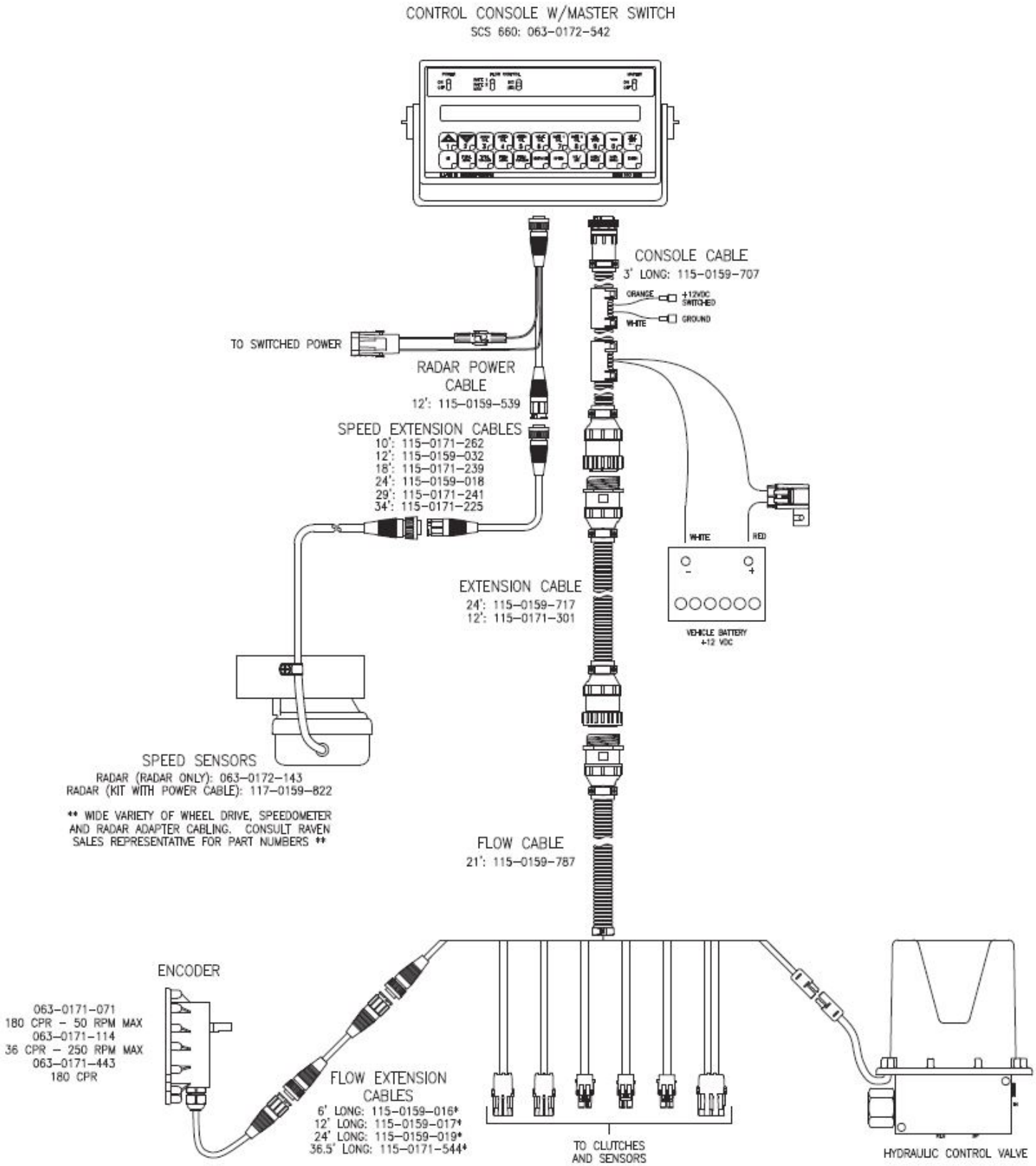
SIZE A | SHEET TITLE: BILL OF MATERIALS | REV A

FOR PARTS, CALL 1.800.342.7498

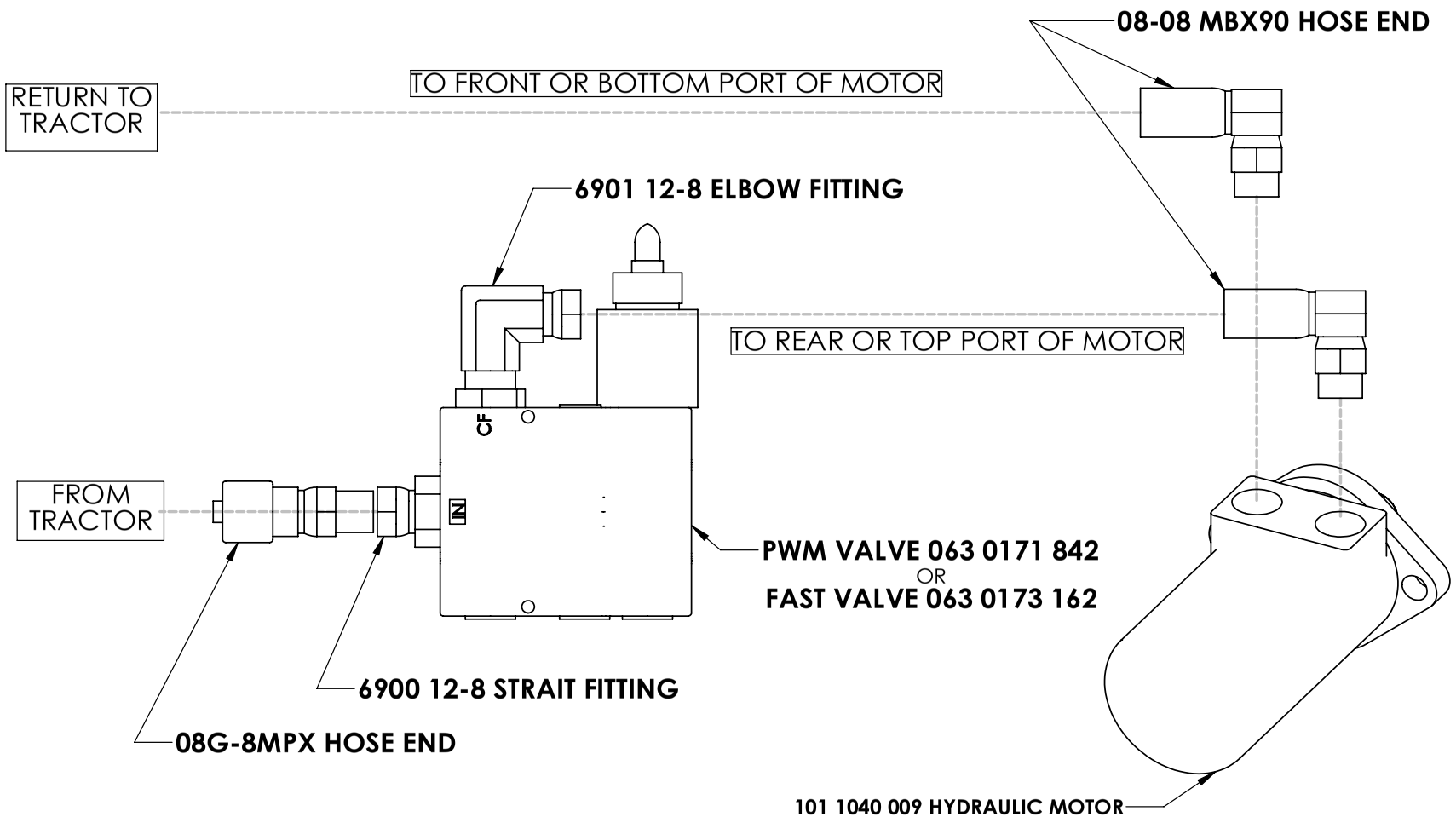
SCALE: 1:4 | SHEET 1 OF 1

5 4 3 2 1

VARIABLE RATE CONTROL, ELECTRICAL PLAN



VARIABLE RATE, HYDRAULIC



DRAWN BY	RICH SMOTHERS	4/12/2012
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PRINT DATE	7/28/2014	
CONFIG.	FOR DWG	
COMMENTS:		

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602 E. VAN BUREN ST., LENOX, IA 50851

DWG: VARIABLE RATE CONTROL, HYDRAULIC PLAN

SIZE	SHEET TITLE:	REV
A	HYDRAULIC PLUMBING	A

FOR PARTS, CALL 1.800.342.7498

SCALE: 1:3 SHEET 1 OF 1

Calculate the Spreader Constant Value

The Spreader Constant value can be calculated in one of two ways: by performing a mathematical calculation,
or by performing a "catch test" by applying and measuring the product used.

Note: The Spreader Constant value must be recalculated every time the gate opening dimensions are changed!

Formula Calculation:

First, use a tape measure to measure the following dimensions on the machine:

- Gate height (GH) in inches [cm]
- Gate width (GW) in inches [cm]
- Distance of travel (D) in inches [cm] of the belt per one revolution of the sensor

Second, determine the number of pulses emitted by the encoder per one revolution of the sensor.

1. Enter a METER CAL value of 10.
2. Enter a TOTAL VOL value of 0.
3. Turn the sensor exactly one revolution. The value in TOTAL VOLUME is the number of encoder pulses per sensor revolution.

Third, determine the cubic feet [cm] of discharge per one revolution of the sensor by multiplying the distance of the belt travel per one sensor revolution by the gate height by the gate width, then dividing it by 1728 (not necessary for determining cubic cm).

For Example:

Distance of Belt Travel per 1 Sensor Revolution (D) = 13 inches [33 cm]
Gate Height (GH) = 3 inches [18 cm]
Gate Width (GW) = 8 inches [38 cm]
Number of Encoder Pulses per 1 Sensor Revolution (P) = 180

$$\frac{D \times GH \times GW}{1728} = \text{Cubic Feet of Discharge per 1 Sensor Revolution}$$

$$\frac{13 \times 3 \times 8}{1728} = .181 \text{ cubic feet of discharge per 1 sensor revolution}$$

Finally, calculate the Spreader Constant value using one of the following formulas, using the example of a 180 CPR granular encoder. Write down this number for future reference when programming the console.

Rate in Pounds:

$$\frac{P}{\text{Cubic Feet of Discharge per 1 Sensor Revolution}} = \text{Spreader Constant Value}$$

$$\frac{180}{.181} = 994 \text{ Spreader Constant}$$

CALIBRATION NUMBERS
FOR VARIABLE RATE READY SPREADERS

- Inches of belt travel per revolution of rear roller = 13”
- Encoder pulses per revolution of rear roller = 180
- Gate Width = 8”
- Gate Height = Actual inches above the floor (chain is 1/2” thick)
- Meter Cal = Product Density
- Speed Cal w/Sky Track = 600
- Speed Cal w/ Astroll = 783

SPREADER CONSTANT #’S

2.5” Gate Height = 1196
3” Gate Height = 994
3.5” Gate Height = 857
4” Gate Height = 747
4.5” Gate Height = 664
5” Gate Height = 600

The spreader constant is entered by holding dow the meter calibration button until the spreader constant menu comes available.

These numbers are a good starting point and may be adjusted slightly if your actual rate is off.

BOLT TORQUE CHART

IMPORTANT : Over tightening hardware can be as damaging as under tightening. Tightening beyond recommended torque will reduce the fastener's shock load capacity.

BOLT TORQUE CHART

SIZE	 SAE GRADE 2 ASSEMBLY TORQUE DRY	LUBRICATED	 SAE GRADE 5 ASSEMBLY TORQUE DRY	LUBRICATED	 SAE GRADE 8 ASSEMBLY TORQUE DRY	LUBRICATED	 L9 ASSEMBLY TORQUE LUBRICATED
1/4-20	66*	49*	8	75*	12	9	11
1/4-28	76*	56*	10	86*	14	10	13
5/16-18	11	8	17	13	20	18	21
5/16-24	12	9	19	14	25	20	23
3/8-16	20	15	30	23	45	30	33
3/8-24	23	17	35	25	50	35	38
7/16-14	30	24	50	35	70	55	60
7/16-20	35	25	55	40	80	60	65
1/2-13	50	35	75	55	110	80	95
1/2-20	55	40	90	65	120	90	105
9/16-12	65	50	110	80	150	110	140
9/16-18	75	55	120	90	170	130	150
5/8-11	90	70	150	110	220	170	185
5/8-18	100	80	180	130	240	180	205
3/4-10	160	120	260	200	380	280	290
3/4-16	180	140	300	220	420	320	355
7/8-9	190	140	400	300	600	460	505
7/8-14	210	155	440	320	660	500	585
1-8	220	160	580	440	900	680	775
1-14	240	170	640	480	1000	740	900
1 1/8-7	300	220	800	600	1280	960	1150
1 1/8-12	340	260	880	660	1440	1080	1325
1 1/4-7	420	320	1120	840	1820	1360	1600
1 1/4-12	460	360	1240	920	2000	1500	1750
1 3/8-6	560	420	1460	1100	2380	1780	-----
1 3/8-12	640	460	1680	1260	2720	2040	-----
1 1/2-6	740	560	1940	1460	3160	2360	3250
1 1/2-12	840	620	2200	1640	3560	2660	3650

ITEMS WITH * = INCH POUNDS
ALL OTHERS = FOOT POUNDS

WARNING: Never work around any raised implement while in the raised position without using safety lockups.

PARTS ORDERING PROCEDURE

Your Dalton Ag dealer is interested in your new fertilizer application equipment and has the desire to help you get the most value from it. Through the help of this manual, you will find you can do some of the regular maintenance yourself. For parts and service, contact the ***Dalton Ag*** Dealership from which you purchased your fertilizer application equipment or your local ***Dalton Ag*** dealer.

When replacement parts are required, consult the applicable illustration and parts list to obtain the correct part name and number. When requesting a replacement part, always include the following information:

1. Complete Part Number
2. Part Name
3. Quantity Required
4. Machine and Model Number
5. Machine Serial Number - located on the topside of the frame near hitch
6. Provide complete name and address for where and how parts are to be shipped.

NOTE: Right and left hand parts and sides of the units are determined by standing at the rear and facing in the direction of forward travel.

EQUIPMENT MODEL:_____

EQUIPMENT SERIAL NO.:_____

DATE OF PURCHASE:_____

NAME OF DEALER:_____

DEALER'S PHONE NUMBER:_____

Thank you for your business!

LIMITED WARRANTY

Dalton Ag, Inc. warrants all products, including all equipment and accessories, manufactured by Dalton Ag, Inc. to be free from defects in material and workmanship if the product is operated and serviced according to the manufacturer's instruction manual. This warranty shall remain effective for twelve months from the date of delivery to the original purchaser.

Dalton Ag, Inc. obligation under this warranty is limited to the repair of replacement of parts (not including labor) which have been returned to Dalton Ag, Inc.factory freight prepaid, and after inspection, are deemed by Dalton Ag, Inc. to be defective. In no event shall Dalton Ag, Inc. be liable for special consequential damages except as may be approved by Dalton Ag, Inc. in advance in writing. This warranty shall not apply to component parts which are not manufactured by Dalton Ag, Inc. Neither shall this warranty apply to any parts or componenets which are expendable and are expected to wear out in normal service during the course of this warranty.

The provisions of this warranty shall not apply to any Dalton Ag, Inc. product which has been subject to misuse, negligence, alteration, or accident, or which shall have been repaired in any way so as, in the reasonable judgement of Dalton Ag, Inc. to affect adversely its performance and reliability.

This warranty is expressly in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations for liability on the part of Dalton Ag, Inc. and Dalton Ag, Inc. neither assumes nor authroizes any other person to assume ofr it any other liability in connection with such products.

COMPANY POLICY

1. Specify catalog numbers, sizes, and all other information necessary to properly fill the order.
2. Check merchandise immediately upon receipt. If received in bad condition or there is a shortage of bundles or boxes, do not fail to note this fact on the carrier promptly. Shortages must be reported within fifteen days of receiving the product.
3. Returned goods will not be accepted without our consent. All returned merchandise is subject to 10% restocking charge.
4. Good returned for credit must be prepaid and accompanied by Dalton Ag, Inc. bill of lading letter of explanation giving order numbers, invoice number, date purchased and reason for returning merchandise. If error is made by Dalton Ag, Inc., we will accept merchandise freight collect if returned by lowest transportation cost. Goods must be returned within 60 days after purchase.
5. Our warranty does not cover the use of chemicals harmful to equipment of the operator. It does cover defective material or workmanship, and is limited to value of material only.
6. Cutting or welding on merchandise without our approval voids the warranty.
7. Special orders require deposits and are not subject to cancellation without our consent.

Dalton

AG PRODUCTS

www.DaltonAg.com

602 E. VAN BUREN | LENOX, IOWA 50851 | 800.342.7498