

Operator's/Parts Manual

For Great Plains and Yetter Coulters
Fertilizer Arm Kits

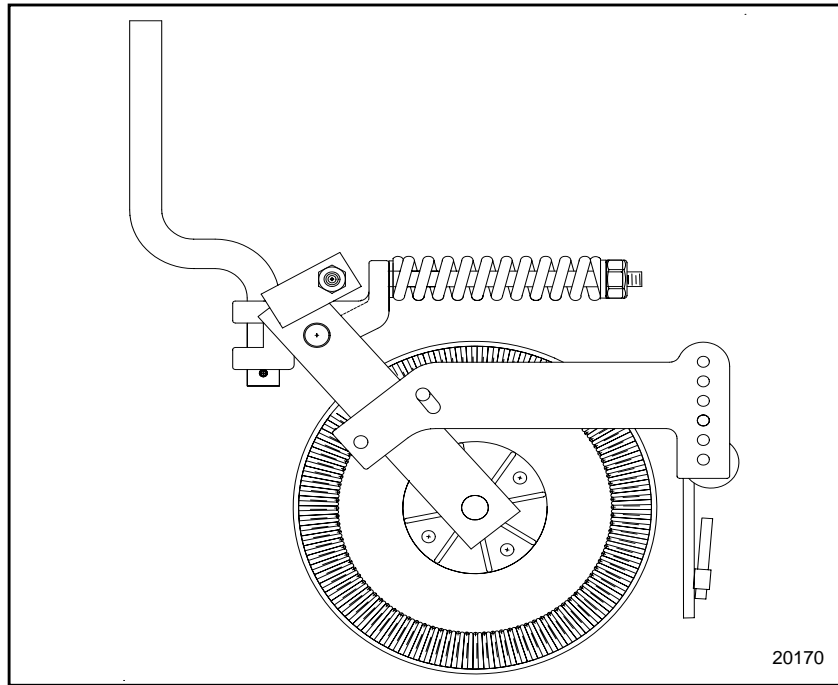


Great Plains

Planting Components



Read the operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!



Cover illustration may show optional equipment not supplied with standard unit.



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General Information

Important Notice

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Printed in the United States of America.

For your convenience, record your Model and the Date Purchased on page 4. Have this information before you when calling a Great Plains Authorized Dealer.

This Operator’s Manual applies to the Product Name listed below:

Fertilizer Arm Kit

Read this Manual

For your safety and to help in developing a better understanding of your equipment we highly recommend that you read the operator sections of this manual. Reading these sections not only provides valuable training but also familiarizes you with helpful information and its location. The parts sections are for reference only and don’t require cover to cover reading. After reviewing your manual store it in a dry, easily accessible location for future reference.



Introduction

Great Plains welcomes you to its growing family of new product owners. This Fertilizer Arm Kit has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance and safe operating practices will help you get years of satisfactory use from the machine.

Description of Unit

The parts on your Fertilizer Arm Kit have been specially designed and should only be replaced with genuine **Great Plains** parts. Therefore, should your Fertilizer Arm Kit require replacement parts go to your **Great Plains** Dealer.

Using This Manual

This manual will familiarize you with safety, assembly, operation, adjustments and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

The information in this manual is current at printing. Some parts may change to assure top performance.

Definitions

The following terms are used throughout this manual.

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated.

IMPORTANT: A crucial point of information related to the preceding topic. For safe and correct operation, read and follow the directions provided before continuing.

NOTE: Useful information related to the preceding topic.



Important Safety Information

Look for Safety Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.





Owner Assistance

If you need customer service or repair parts, contact a **Great Plains** dealer. They have trained personnel, repair parts and equipment specially designed for **Great Plains** products.

Your machine's parts were specially designed and should only be replaced with **Great Plains** parts. Always use the model number when ordering parts from your **Great Plains** dealer.

Record your Model and Date Purchased here for quick reference:

Model: _____

Date Purchased: _____

Your **Great Plains** dealer wants you to be satisfied with your new machine. If you do not understand any part of this manual or are not satisfied with the service received, please take the following actions.

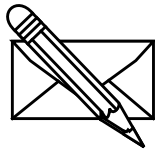
1. Discuss the matter with your dealership service manager. Make sure they are aware of any problems so they can assist you.
2. If you are still unsatisfied, seek out the owner or general manager of the dealership.
3. For further assistance write to:

Product Support

Great Plains Mfg. Inc., Service Department

PO Box 5060

Salina, KS 67402-5060





Operating and Assembly Instructions

Most accidents are the result of negligence and carelessness, usually caused by failure of the operator to follow simple but necessary safety precautions. The following safety precautions are suggested to help prevent such accidents. The safe operation of any machinery is a big concern to consumers and manufactures. Your Fertilizer Arm Kit has been designed with many built-in safety features. However, no one should operate this product before carefully reading this Operators Manual.

General Operation & Repair

Never allow the Fertilizer Arm Kit to be operated by anyone who is unfamiliar with the operation of all functions of the unit. All operators should read and thoroughly understand the instructions given in this manual prior to moving the unit.

1. Make sure safety rules are understood before operating machinery or tractor.
2. Never permit any persons other than the operator to ride on the tractor.
3. Never permit any persons to ride on or stand near the drill while it is in operation.
4. Regulate your speed to the field conditions, maintaining complete control at all times.
5. After repairing or adjusting, make sure all tools and parts are removed from the implement before attempting to operate it.
6. Do not grease or oil machine while it is in operation.
7. Loose fitting clothing should not be worn as it may catch in moving parts.
8. Never dismount from a moving tractor.
9. Do not leave the tractor or the implement unattended with the engine running.
10. Do not stand between the tractor and the implement during hitching.
11. Detach and store implements in an area where children normally do not play. Stabilize implements by using suitable supports and block wheels.

Assembly for Great Plains and Utility Coulters

Refer to Figure 1

1. Bolt the tine extension arm (1) to the coulters swing arm using backing plate (2), carriage bolts (3), flat washer (4), lock washers (5) and hex nut (6). Do not tighten at this time.
2. Bolt the spring tine to the inside of the tine arm in the desired hole for your desired depth. This adjustment can be made either by sliding the tine arm up or down the coulters swing arm or remounting the spring tine in another hole in the tine arm.
3. With the tine set at the desired depth and angle, tighten all hardware.

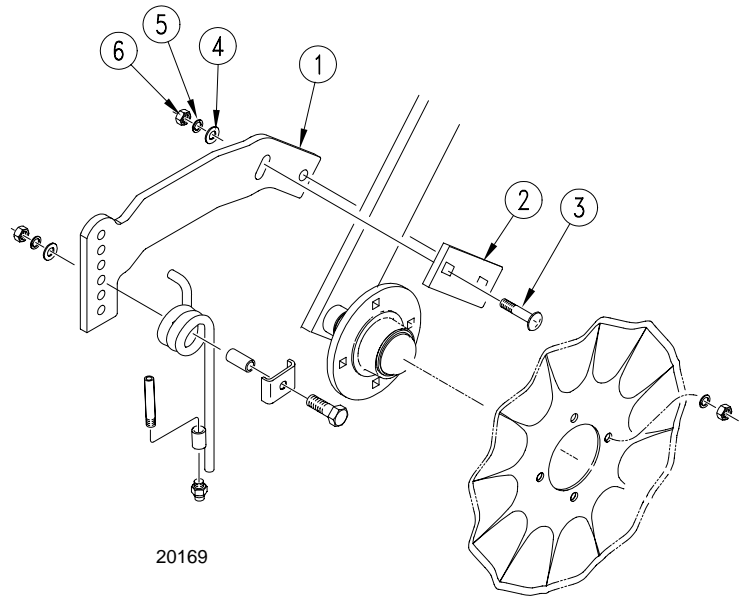


Figure 1
Great Plains and Utility Coulters

Assembly for Yetter Coulters

Refer to Figure 2

1. Remove knife assembly by removing the coulters hub bolt and bolt directly above it. Take care to save the bushings and the fasteners for future use in assembly.
2. Using the fasteners and bushings from step 1, assemble the adjustment plate (2) and the hold down plate (1) onto the coulters linkage. Do not tighten at this point.
3. Assemble the spring tine parts as shown. Do not tighten adjustment bolt at this time.
4. Adjust plate (2) so that the spring tine is nearly vertical. Set spring tine as shown below. Tighten all bolts.

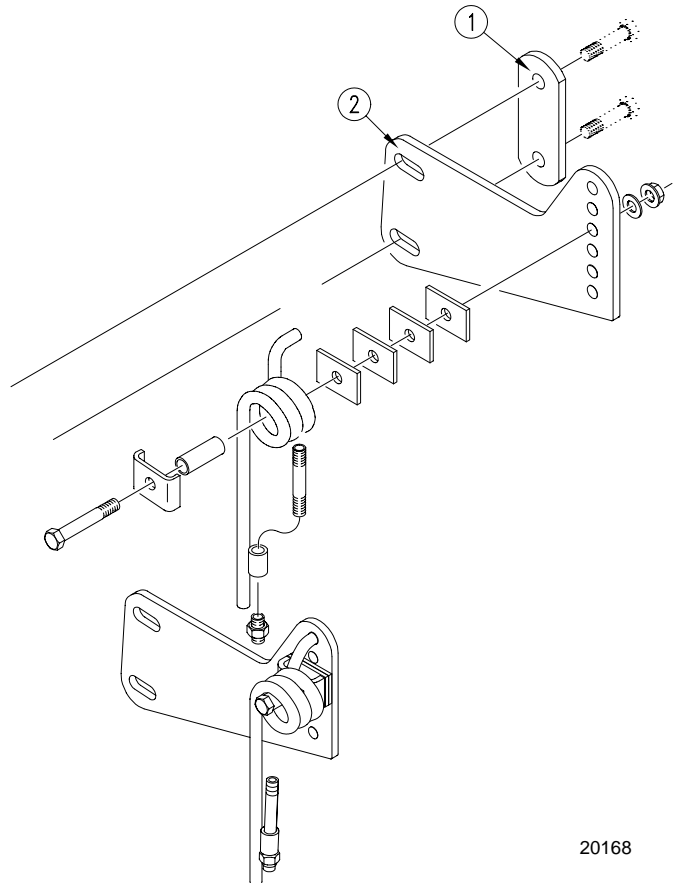


Figure 2
Yetter Coulters



Adjustments

Adjustments for Great Plains and Utility Coulters

Refer to Figure 3

1. Set the tine applicator to run approximately 1" - 1 1/2" below the surface of the soil. The tine can be set to run deeper but will cause excessive wear and increase plugging.
2. Set the tine approximately 1" - 1 1/2" behind the coulters blade in a vertical or slightly back swept position.

NOTE: The main objective is to position the tine and nozzle in the pocket or void created by the soil as it is leaving the back of the coulters blade while running. This will allow the nozzle to shoot the fertilizer to the bottom before the soil can fill back in the trench.

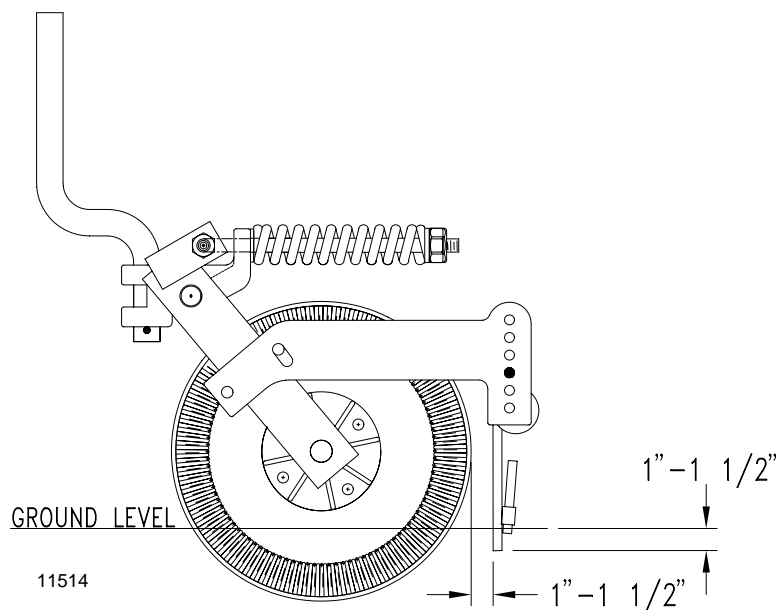


Figure 3
Great Plains and Utility Coulters

Adjustments for Yetter Coulters

Refer to Figure 4

1. Set the tine applicator to run approximately 1" below the surface of the soil. The tine can be set to run deeper but will cause excessive wear and increase plugging.
2. Set the tine approximately 1" behind the coulters blade in a vertical or slightly back swept position.

NOTE: The main objective is to position the tine and nozzle in the pocket or void in the soil created by the coulters blade. This will allow the nozzle to shoot the fertilizer to the bottom of the furrow before the soil can fill back in the trench.

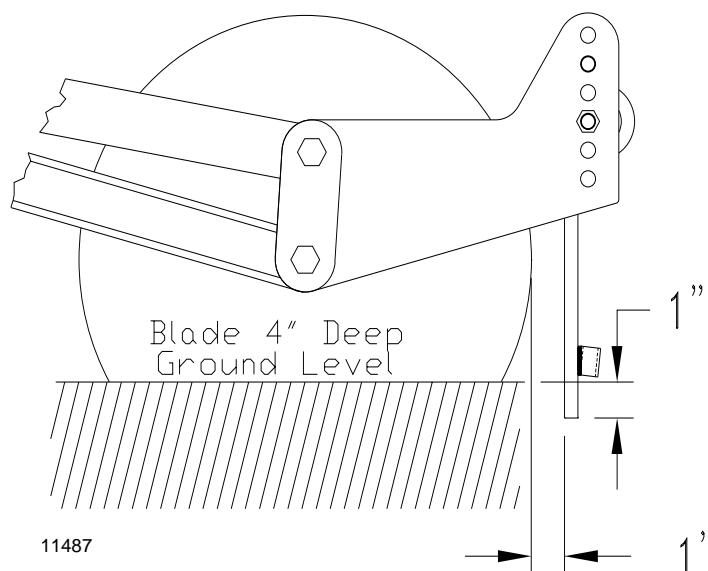


Figure 4
Yetter Coulters



Calibration and Application Rates

ACREAGE CHART BASIC CALIBRATION

To double check the accuracy of your application rate, check the following instructions:

1. Measure 200' and determine the number of seconds required to travel this distance under field conditions with implements in working condition. EXAMPLE: It takes 7 seconds to travel the 200' which equals 5 mph.
2. Place graduated container or pre-weighted container under one nozzle and catch the discharge for 1 minute. Divide 128 into the number of fluid ounces caught. 128 fluid ounces equals one gallon. EXAMPLE: 64 ounces caught in one minute.

$$64.0 \div 128 = .50 \text{ gallons/minute}$$

3. Determine your nozzle spacing in inches. EXAMPLE: 1 nozzle every 40".

SOLUTION:

$$\text{Gallons per acre} = \frac{5940 \times \text{Gallon per minute}}{\text{Nozzle spacing in inches} \times \text{Miles Per Hour}}$$

$$\text{GPA} = \frac{5940 \times .50}{40 \times 5}$$

$$\text{GPA} = \frac{2970}{200}$$

$$\text{GPA} = 14.9$$

The above information will assure you of a check for accurate application in the event there is an error in the gauge nozzle spacing, nozzle height, tractor speed or nozzle wear.

MILES PER HOUR CALIBRATION

If tractor does not have a speedometer, determine tractor speed by using the following chart:

See application chart when M.P.H. is obtained.

MPH	SECONDS TO TRAVEL 200 FEET
2.5	55
3.0	45
3.5	39
4.0	34
4.5	30
5.0	27
6.0	23
7.0	19
8.0	17
9.0	15
10.0	14
11.0	12.5
12.0	11.5

1. Determine nozzle size and desired spraying pressure using the application guide on page 9.
2. Find fluid gallons per minute in the chart on page 9.
3. Catch flow at pressure desired for 1 minute {for large nozzles catch the flow for 30 seconds and multiply by 2}.
4. If the gallons per minute caught are within the limit in the chart on page 9, the nozzle is accurate and G.P.A. charts should be followed.
5. if the nozzle is not within the limit, check for obstructions or wear in the orifices of the nozzle. Take the cap off the nozzle, clean the orifices with a toothpick and retest. If several nozzles test the same, but are not within the limits, a faulty gauge may be the problem. Replace pressure gauge with a new gauge.
6. For heavier solutions use density flow chart on page 11.

NOTE: When using a squeeze pump, use a H1/4U-SS0040 nozzle and disregard rate charts. The squeeze pump controls the rate of application.

Teejet Capacity Size Design- ation	Spray Angle	Equiv. Orifice Diam. Inches	CAPACITY {gallons per minute}									
			5 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	200 psi	300 psi
000009	0°	.008	.003	.005	.006	.008	.009	.011	.013	.014	.020	.025
000012	0°	.010	.004	.006	.008	.01	.012	.015	.017	.019	.027	.033
000019	0°	.012	.007	.009	.013	.016	.019	.023	.02	.03	.043	.062
000021	0°	.0135	.007	.01	.015	.018	.021	.026	.03	.033	.047	.058
000050	0°	.020	.018	.025	.035	.043	.050	.06	.07	.08	.11	.14
000067	0°	.023	.024	.033	.05	.06	.067	.08	.09	.11	.15	.18
0001	0°	.028	.035	.05	.07	.09	.10	.12	.14	.16	.22	.27
00015	0°	.033	.05	.07	.11	.13	.15	.18	.21	.24	.34	.41
0002	0°	.039	.07	.10	.14	.17	.20	.25	.28	.32	.45	.55
0003	0°	.047	.10	.15	.21	.26	.30	.37	.42	.47	.67	.82
0004	0°	.055	.14	.20	.28	.335	.40	.49	.57	.63	.89	1.1
0005	0°	.061	.18	.25	.35	.43	.50	.61	.71	.79	1.1	1.4
0006	0°	.067	.21	.30	.42	.52	.60	.73	.85	.95	1.3	1.6
0008	0°	.078	.28	.40	.56	.69	.80	.98	1.1	1.3	1.8	2.2
0010	0°	.086	.35	.50	.71	.86	1.0	1.2	1.4	4.6	2.2	2.7
0015	0°	.107	.53	.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1
0020	0°	.125	.71	1.0	1.4	1.7	2.0	2.5	2.8	3.2	4.5	5.5
0030	0°	9/64	1.1	1.5	2.1	2.6	3.0	3.7	4.2	4.7	6.7	8.2
0040	0°	5/32	1.4	2.0	2.8	3.5	4.0	4.9	5.7	6.3	9.0	11.0
0050	0°	11/64	1.8	2.5	3.5	4.3	5.0	6.1	7.1	7.9	11.2	13.7
0060	0°	3/16	2.1	3.0	4.2	5.2	6.0	7.3	8.5	9.5	13.4	16.4
0070	0°	13/64	2.5	3.5	4.9	6.1	7.0	8.6	9.9	11.1	15.7	19.2
0080	0°	13/64	2.8	4.0	5.6	6.9	8.0	9.38	113	12.6	17.9	22.0
00100	0°	15/64	3.5	5.0	7.1	8.6	10.0	12.2	14.1	15.8	22.0	27.0
00120	0°	1/4	4.2	6.0	8.5	10.4	12.0	14.7	17.0	19.0	27.0	33.0
00150	0°	19/64	5.3	7.5	10.6	13.0	15.0	18.4	21.0	34.0	34.0	41.0
00200	0°	21/64	7.1	10.0	14.1	17.3	20.0	25.0	28.0	32.0	44.0	55.0
00250	0°	3/8	8.8	12.5	17.7	22.0	25.0	31.0	35.0	40.0	56.0	68.0

Useful Formulas

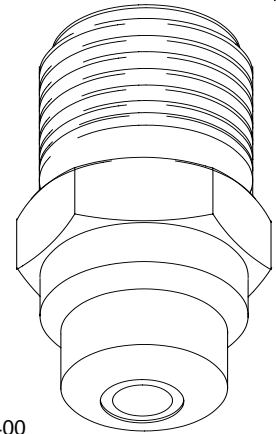
$$\text{GPM} = \frac{\text{GPA} \times \text{MPH} \times \text{W}^*}{5940}$$

$$\text{GPA} = \frac{5940 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}^*}$$

*W = Row Spacing.....in inches.

GPM= Gallons Per Minute.

GPA= Gallons Per Acre.



11400

NOZZLE #	LIQUID CAPACITY		GALLONS PER ACRE								
	PRESSURE IN PSI	IN GPM	4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
H1/4U-SS0010	10	0.5	25	16.5	12.4	9.9	8.3	7.1	6.2	5.5	5.0
	20	0.7	35	23	17.5	14	11.7	10	8.8	7.8	7.0
	30	0.9	43	29	21	17.2	14.3	12.3	10.7	9.5	8.6
	40	1.0	49	33	25	19.8	16.5	14.1	12.4	11.0	9.9
H1/4U-SS0015	10	0.8	37	25	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	20	1.1	53	35	26	21	17.5	15	13.1	11.4	10.5
	30	1.3	64	43	32	26	21	18.4	16.1	14.3	12.9
	40	1.5	74	49	37	30	25	21	18.6	16.5	14.9
H1/4U-SS0020	10	1.0	49	33	25	19.8	16.5	14.1	12.4	11.0	9.9
	20	1.4	70	47	35	28	23	20	17.5	15.6	14.0
	30	1.7	86	57	43	34	29	24	21	19.3	17.2
	40	2.0	99	65	49	40	33	28	25	22	19.8
H1/4U-SS0030	10	1.5	74	49	37	30	25	21	18.6	16.5	14.9
	20	2.1	105	70	53	42	35	30	26	23	21
	30	2.6	129	86	64	51	43	37	32	29	26
	40	3.0	148	99	74	59	49	42	37	33	30
H1/4U-SS0040	10	2.0	99	66	49	40	33	28	25	22	19.8
	20	2.8	140	93	70	56	47	40	35	31	28
	30	3.5	171	114	86	69	57	49	43	38	34
	40	4.0	198	132	99	79	66	57	49	44	40
H1/4U-SS0050	10	2.5	124	82	62	49	41	35	31	27	25
	20	3.5	175	117	88	70	58	50	44	39	35
	30	4.3	214	143	107	86	71	61	54	48	43
	40	5.0	247	165	124	99	82	71	62	55	49
H1/4U-SS0060	10	3.0	148	99	74	59	49	42	37	33	30
	20	4.3	210	140	105	84	70	60	53	47	42
	30	5.2	257	171	129	103	86	73	64	57	51
	40	6.0	297	198	148	119	99	85	74	66	59

This Chart is based on 30" Row Spacing

Size Selection Of Spray Tip Or Nozzle

Based on the chemical manufacturer's recommendations on GPA application rates and nozzle types, a suitable spray tip size is chosen from the catalog tabulations. Since all the tabulations are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To arrive at the rate of solution to be sprayed - multiply the conversion factor by the tabulated GPM and GPA rates shown in this manual.

Imperial Gallon = 1.20 U.S.A. Gallons

Weight Of Solution	Specific Gravity	Conversion Factor
7.0 lbs. per gallon	.84	1.09
8.0 lbs per gallon	.96	1.02
8.34 lbs. per gallon - Water	1.00	1.00
9.0 lbs. per gallon	1.08	.96
10.0 lbs. per gallon	1.20	.91
11.0 lbs. per gallon	1.32	.87
12.0 lbs. per gallon	1.44	.83
14.0 lbs. per gallon	1.68	.77
16.0 lbs. per gallon	1.92	.72
18.0 lbs. per gallon	2.16	.68
20.0 lbs. per gallon	2.40	.65

EXAMPLE: It is desired to apply 55 lb/acre of nitrogen in 30" rows. {28% N, weight is 10.65 lb/gal from the above chart}

$$\frac{55 \text{ lb}}{\text{acre}} \times \frac{1}{10.65 \frac{\text{lb}}{\text{acre}}} \times \frac{1}{.28 \text{ solution}} = 18.44 \frac{\text{gal}}{\text{acre}}$$

Need to apply 18.44 gal/acre. From the 30" TeeJet Nozzle chart, the 4U-SS010 applies 16.5 gal/acre at 10 psi and 6 mph, and applies 25 gal/acre at 10 psi and 4 mph. So, to interpolate,

gal/acre	MPH	
16.5	6	
18.44		2.0 Difference
25.0	4	

To calculate the correct speed to apply the 18.44 gal/acre, multiply the ratio of the difference in the application rate by the speed difference, and subtract from the higher speed.

$$\frac{1.94}{8.50} \times 2.0 \text{ mph} = .45 \text{ mph}$$

$$6.0 \text{ mph} - .45 \text{ mph} = \text{Application speed for 18.44 gal/acre}$$

$$5.54 \text{ mph} = \text{Application speed for 18.44 gal/acre}$$



Maintenance and Storage

Maintenance

Proper servicing and adjustment is the key to the long life of any farm implement. With careful and systematic inspection, you can avoid costly maintenance, time and repair.

1. After using your Fertilizer Arm for several hours, check all bolts to be sure they are tight.

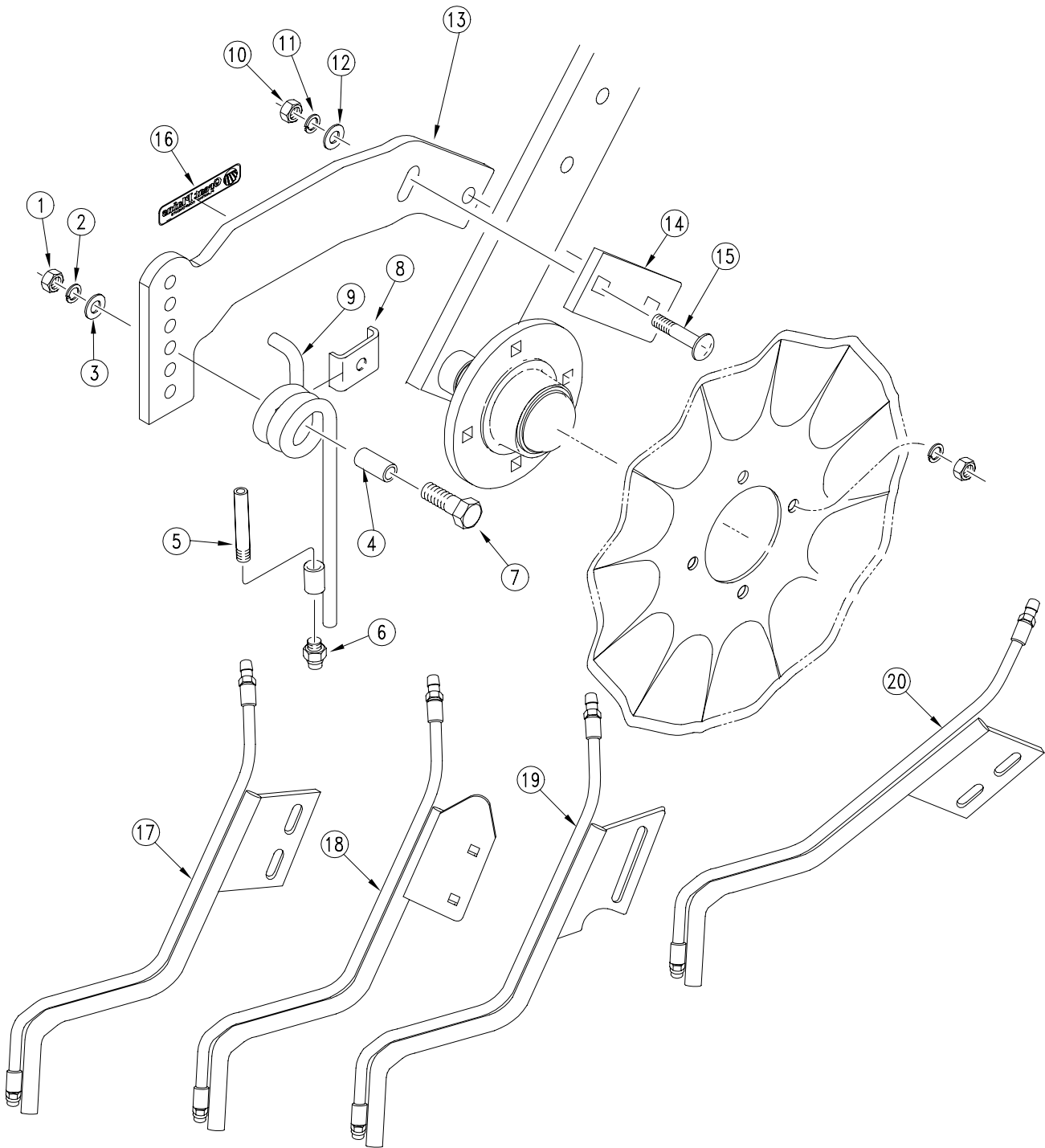
Storage

1. Clean the Fertilizer Arms as necessary.
2. Store the Fertilizer Arms inside if possible for longer Fertilizer Arm life.



Parts

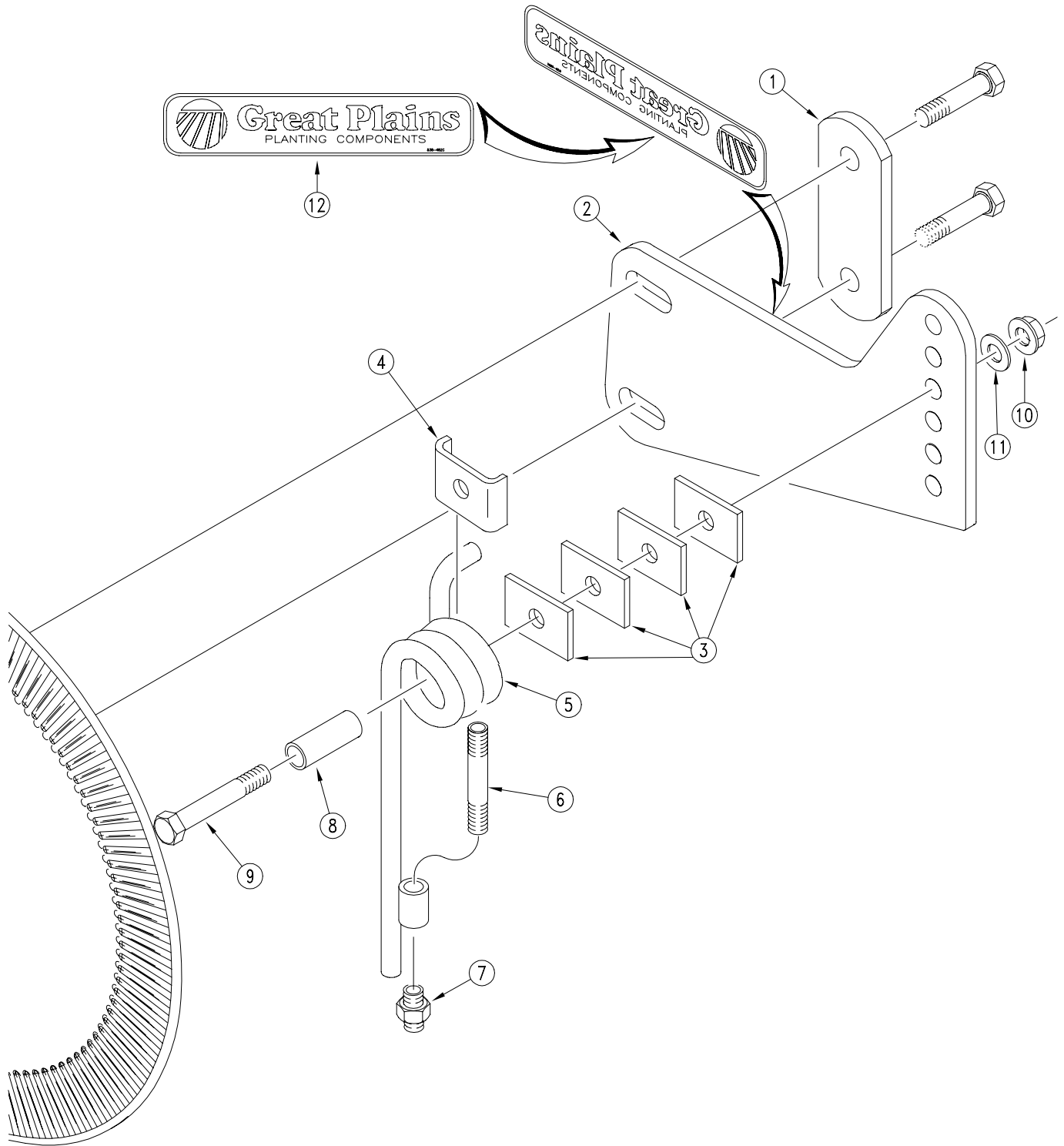
Great Plains Fertilizer Arm Kit



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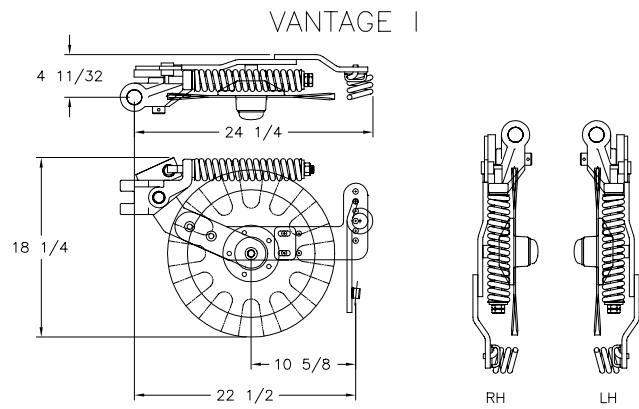
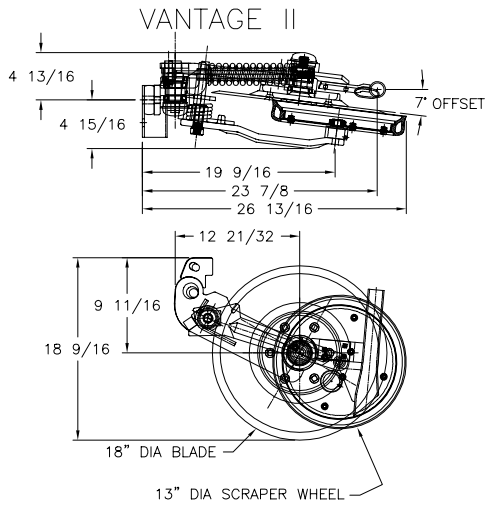
Ref.	Part No.	Description	
1.	803-020C	NUT HEX 1/2-13 PLT	
2.	804-015C	WASHER LOCK SPRING 1/2 PLT	
3.	804-016C	WASHER FLAT 1/2 SAE PLT	
4.	204-241D	FERTILIZER TINE SPACER	
5.	830-162C	AD 1/4MNPT SCH 40 X 3 304SS	
6.	828-046C	NOZZLE SOLIDSTRM H1/4U-SS0040	
	828-036C	NOZZLE SOLIDSTRM H1/4U-SS0002	
	828-037C	NOZZLE SOLIDSTRM H1/4U-SS0003	
	828-038C	NOZZLE SOLIDSTRM H1/4U-SS0004	
	828-039C	NOZZLE SOLIDSTRM H1/4U-SS0005	
	828-040C	NOZZLE SOLIDSTRM H1/4U-SS0006	
	828-041C	NOZZLE SOLIDSTRM H1/4U-SS0008	
	828-042C	NOZZLE SOLIDSTRM H1/4U-SS0010	
	828-043C	NOZZLE SOLIDSTRM H1/4U-SS0015	
	828-044C	NOZZLE SOLIDSTRM H1/4U-SS0020	
	828-045C	NOZZLE SOLIDSTRM H1/4U-SS0030	
7.	802-249C	HHCS 1/2-13X4 1/2 GR5 SPTHD	
8.	204-242D	FERTILIZER TINE CLIP	
9.	204-360H	FERTILIZER TINE WELDMENT RIGHT HAND	Shown
10.	803-021C	NUT HEX 5/8-11 PLT	
11.	804-022C	WASHER LOCK SPRING 5/8 PLT	
12.	804-021C	WASHER FLAT 5/8 SAE PLT	
13.	204-174D	EXTENSION ARM, RIGHT HAND	Shown
14.	204-172D	BACKING PLATE	
15.	802-338C	RHSNB 5/8-11X3 GR5	
16.	838-482C	DECAL GP PLANTING COMPONENTS	
17.	204-434H	VANTAGE I 20" FERTILIZER ARM	(Fits Van I 20")
18.	204-436H	CLAMP-ON LIQ FERTILIZER ARM	(Fits Great Plains Coulter W/O Mounting Holes)
19.	164-139H	LIQ FERT ARM	(Fits Great Plains Coulter With Mounting Holes)
20.	204-438H	VANTAGE I LH FERTILIZER ARM	Shown (Fits Vantage I LH Coulter With Mounting Holes)
	204-439H	VANTAGE I RH FERTILIZER ARM	(Fits Vantage I RH Coulter With Mounting Holes)

Yetter Fertilizer Arm Kit

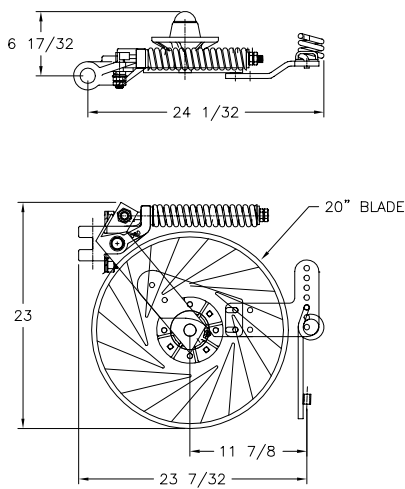


Ref.	Part No.	Description	
1.	204-027D	PLATE	
2.	204-028D	ADJUSTMENT PLATE	
3.	204-029D	SPACER	
4.	204-242D	FERTILIZER TINE CLIP	
5.	204-360H	FERTILIZER TINE WELDMENT RIGHT HAND	Shown.
	204-361H	FERTILIZER TINE WELDMENT LEFT HAND	
6.	830-162C	AD 1/4MNPT SCH 40 X 3 304SS	
7.	828-046C	NOZZLE SOLIDSTRM H1/4U-SS0040	
	828-036C	NOZZLE SOLIDSTRM H1/4U-SS0002	
	828-037C	NOZZLE SOLIDSTRM H1/4U-SS0003	
	828-038C	NOZZLE SOLIDSTRM H1/4U-SS0004	
	828-039C	NOZZLE SOLIDSTRM H1/4U-SS0005	
	828-040C	NOZZLE SOLIDSTRM H1/4U-SS0006	
	828-041C	NOZZLE SOLIDSTRM H1/4U-SS0008	
	828-042C	NOZZLE SOLIDSTRM H1/4U-SS0010	
	828-043C	NOZZLE SOLIDSTRM H1/4U-SS0015	
	828-044C	NOZZLE SOLIDSTRM H1/4U-SS0020	
	828-045C	NOZZLE SOLIDSTRM H1/4U-SS0030	
8.	204-241D	FERTILIZER TINE SPACER	
9.	802-249C	HHCS 1/2-13X4 1/2 GR5 SPTHD	
10.	803-193C	NUT HEX FLANGE 1/2-13 GR G PLT	
11.	804-016C	WASHER FLAT 1/2 SAE PLT	
12.	838-482C	DECAL GP PLANTING COMPONENTS	

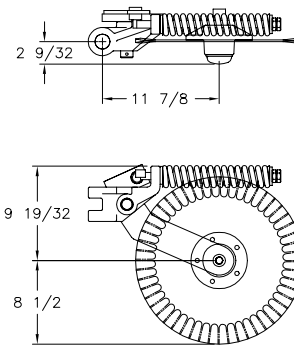
Specifications



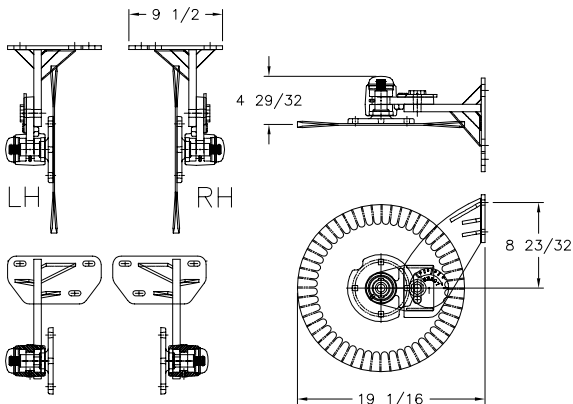
VANTAGE I 20" W/FERTILIZER



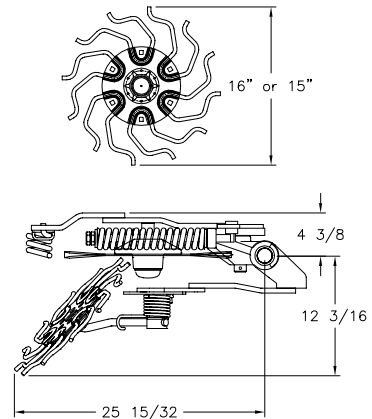
ZONE TILL COULTER



UNIT MOUNT COULTER



TERRA TINE ROW CLEANER



Warranty

Great Plains Manufacturing, Incorporated warrants to the original purchaser that this seeding equipment will be free from defects in material and workmanship for a period of one year from the date of original purchase when used as intended and under normal service and conditions for personal use; 90 days for commercial or rental purposes. This Warranty is limited to the replacement of any defective part by Great Plains Manufacturing, Incorporated and the installation by the dealer of any such replacement part. Great Plains reserves the right to inspect any equipment or part which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Great Plains' judgement shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. This Warranty shall not apply if the product is towed at a speed in excess of 20 miles per hour.

Claims under this Warranty must be made to the dealer which originally sold the product and all warranty adjustments must be made through such dealer. Great Plains reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Great Plains liable for damages of any kind, direct, consequential, or contingent, to property. Furthermore, Great Plains shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, losses caused by harvest delays or any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Great Plains Manufacturing, Incorporated within 10 days from the date of original purchase.

Great Plains Manufacturing, Inc.

Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
