



Dalton

A G P R O D U C T S



OPERATING & PARTS MANUAL



LIQUID APPLICATORS

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www.DaltonAg.com

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SPECIAL NOTICE	

The information and suggestions in this manual will help you obtain the highest performance, dependability, and efficiency from your new DALTON AG implement.

Whether your new DALTON AG implement is delivered assembled, or unassembled, it is recommended that you become familiar with the contents of this manual. A basic understanding of how it is assembled and operated will be of value to you as a reference and parts manual.

HOW TO ORDER REPLACEMENT PARTS

The parts assembly drawings in this manual are provided as an aid in repair and replacement parts guide. Use these numbers when ordering replacement parts.

WHO TO CONTACT FOR HELP – 800-342-7498

In event you experience trouble in assembly, operation, or in ordering parts, contact:

Dalton Ag Products, Inc.
Customer Service Department
Lenox, IA. 50851

IMPLEMENT SAFETY

In addition to design and configuration of equipment, safety and accident prevention are dependent upon the awareness, concern and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment. Failing to follow these safety messages can result in machine damage, property damage, personal injury, and/or death.

- Before operating your applicator, thoroughly read and understand your operator's manual. If you do not understand any portion of the operators manual, contact Dalton Ag Products distributor immediately for clarification.
- Furnish this manual to a new operator.
- Tow with tractor only. Never transport applicator unit in excess of 20 MPH. Maintain a safe speed.
- Use a Slow-Moving-Vehicle (SMV) emblem when transporting.
- Be sure safety decals are readable. All safety related decals must be replaced if the applicator is painted or the decals are otherwise rendered unreadable.
- Install transport link before transporting.
- Always check for overhead obstacles in transporting applicator and before folding or unfolding the wings of the unit.
- Never permit riders on the applicator or tractor.
- Proceed slowly on rough or slippery roadways, on side hills, and around curves to avoid tipping.
- Reduce speed when approaching ditches and corners. Do not make sharp turns with brakes.
- Machinery should be operated only by persons familiar to the tractor, applicator unit, and the safety related items.
- Do not stand on, or straddle tongue when unhitching.
- Do not modify, or permit anyone to modify, this applicator, and any of its components, without first consulting Dalton Ag distributor.
- Do not lubricate, adjust, or repair when applicator unit is in motion.
- Use only approved replacement parts.
- To prevent serious injury from high-pressure fluid, NEVER attempt to inspect, service, or disassemble any part of the hydraulic system until all pressure is relieved by lowering the toolbar to the ground (or secure with cylinder transport stops provided).
- High-pressure fluid is nearly invisible, but has enough force to penetrate the skin. Never use the hands to search out a suspected leak. If injured by escaping fluid obtain medical attention at once to minimize chance of infection. Wear safety glasses or goggles to avoid eye injury when working on the hydraulic system.
- Always check torque on wheel bolts before transporting.

A. A. SAFETY

- Before operating your applicator, thoroughly read and understand your operator's manual. If you do not understand any portion of the operator's manual, contact your Dalton Ag distributor immediately for clarification.
- Always wear a full -face mask with ammonia type canister, tight fitting safety goggles and protective gloves made of rubber or other material impervious to ammonia.
- A container of not less than five gallon of readily available clean water should be on or near every tank of ammonia.
- Never look directly into hose, meter, quick coupler or shut off.
- When transporting ammonia the discharge hose should be securely fastened on both ends. Hose end valves should be turned off while in transport, service, or storage. Precautionary measures must be taken to prevent accidental opening of these valves (especially quick openings or ¼ turn valves).
- Read and understand all safety and caution decals and keep them in their proper place. Always teach all persons involved in the handling of ammonia that it is dangerous and must be handled with care.
- No ammonia should be transported on wagons or applicators that are not safe for road travel.
- Work upwind whenever practical.
- Provide a warning to prevent filling of tank past 85% capacity.
- The hose from the wagon to the quick coupler should not be wrapped or tied to applicator. The quick coupler must be free to detach if wagon accidentally unhooks.

PRE-SEASON CHECK

1. Carefully review the safety suggestions in this manual.
2. Check all bolts for proper tightness. When the implement is new, check after one hour and every few hours of operation.
3. Replace ground tools that are severely worn, broken or damaged.
4. Check tires for proper inflation. All tires should be inflated equally to avoid side draft.
5. Check the wheel lug bolts daily, keep wheel bolts tight.
6. Grease all fittings.
7. Inspect, repack, or replace (if necessary) wheel bearings and seals.
8. Check hoses, hose routing and hydraulic cylinders. Any indication of leakage or fraying of hoses should be corrected.

OFF-SEASON STORAGE

Following these suggestions will extend Service life and satisfaction:

1. A little time and effort spent cleaning your machine before storing will repay in longer service, easier operation and higher resale value.
2. Inspect for worn or damaged parts. Replace, if required, and avoid delays the next season.
3. Repaint all areas where the original paint is worn off.
4. Lubricate your implement.
5. Grease all exposed metal surfaces of ground tools.
6. Store the unit inside a shed to protect from weather, and on a level area with wings down. The ground working parts should rest on boards.
7. Disconnect the rod end of the lift cylinders and retract the rod into cylinder to prevent cylinder rod from rusting.
8. Cap or plug all hydraulic oil lines if the cylinders are removed. This is to prevent any contaminants from entering the hydraulic system.
9. Raise tires off ground, or remove and store in cool dry location out of sunlight.

LIQUID INJECTOR NOZZLE CHART

NOZZLE SELECTION

To select the proper nozzle size, first determine the gallons per acre and speed that is going to be used. Go to the table for the proper row spacing. Find the speed across the top; go down to the "Gallon Per Acre" and read the nozzle size in the box.

Order nozzle by m.p.h. and gallons per acre.

FORMULA TO CONVERT POUNDS PER ACRE TO GALLONS PER ACRE

Pounds per Acre/Percent of Nitrogen = Total Pounds per Acre/Pounds per Gallon = Gallons per Acre

EXAMPLE: 100 (# per Acre) / .28 (28%) = 357 (# per Acre) / 10.65 (# per Gallon) = 33.5 (GPA)

NOTE: If 1/2 rate is needed on outside shanks, order two nozzles with half the capacity. If 1-1/2 rate is needed on outside shanks, order two nozzles with 1-1/2 times the capacity.

REFER TO THE FOLLOWING RATE CHART FOR TIPS AND APPLICATION !!!



BOLT TORQUE




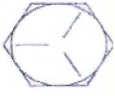


Important: Over tightening hardware can cause as much damage as when under tightening. Tightening hardware beyond the recommended range can reduce its shock load capacity.

The chart below is a guide for proper torque. Use it unless a specified torque is called out elsewhere in the manual.

Torque is the force you apply to the wrench handle or the cheater bar, times the length of the handle or bar.

Use a torque wrench whenever possible.

The following table shows torque in ft. lbs. for coarse thread hardware.

BOLT DIA. AND THREADS PER INCH	 GRADE 2	 OR  GRADE 5 A-325	 GRADE 8
1/4	6	10	14
5/16	12	20	30
3/8 - 16	25	35	50
7/16 - 14	35	55	80
1/2 - 13	55	85	125
9/16 - 12	75	125	175
5/8 - 11	105	170	235
3/4 - 10	185	305	425
7/8 - 9	170	445	690
1-8	260	670	1030
1 1/8 - 7	365	900	1460
1 1/4 - 7	515	1275	2060
1 3/8 - 6	675	1675	2700
1 1/2 - 6	900	2150	3500
1 3/4 - 5	1410	3500	5600

Lubricate all bearings and moving parts as assembled and make certain that they work freely.



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

GPA 30" SPACING

FOR 15" SPACING - DOUBLE GPA ON CHART BELOW									
<u>TIP NUMBER</u>	<u>ORIFICE DIAM.</u>	<u>PSI</u>	<u>CAP. I NOZZLE GPM</u>	<u>5 MPH GPA</u>	<u>6 MPH GPA</u>	<u>7 MPH GPA</u>	<u>8 MPH GPA</u>	<u>9 MPH GPA</u>	<u>10 MPH GPA</u>
TP0004 H1/4U-SS0004	.055	20	.28	11	9	8	7		6
		30	.35	14	12	10	9	8	7
		40	.40	16	13	11	10	9	8
		50	.45	18	15	13	11	10	9
		60	.49	19	16	14	12	11	10
TP0005 H1/4U-SS0005	.061	20	.35	14	12	10	9		
		30	.43	17	14	12	11	9	8
		40	.50	20	16	14	12	11	10
		50	.56	22	18	16	14	12	11
		60	.61	24	20	17	15	13	12
TP0006 H1/4U-SS0006	.067	20	.42	17	14	12	10	9	8
		30	.52	20	17	15	13	11	10
		40	.60	24	20	17	15	13	12
		50	.67	26	22	18	17	15	13
		60	.73	28	24	20	18	16	15
TP0008 H1/4U-SS0008	.078	20	.57	23	19	16	14	13	11
		30	.69	27	22	19	17	15	13
		40	.80	32	26	22	20	17	16
		50	.89	53	29	25	22	19	17
		60	.98	38	32	28	24	21	19
TP00010 H1/4U-SS0010	.086	20	.71	28	23	20	18	16	14
		30	.87	34	28	24	21	19	17
		40	1.00	39	33	28	24	22	20
		50	1.12	44	36	32	28	24	22
		60	1.22	48	40	34	30	26	24
TP00015 H1/4U-SS0015	.107	20	1.06	42	35	30	26	23	21
		30	1.30	51	42	36	32	28	26
		40	1.50	59	49	42	37	33	30
		50	1.68	66	55	47	41	36	33
		60	1.84	72	60	51	45	40	36
TP00020 H1/4U-SS0020	.125	20	1.41	56	47	40	35		28
		30	1.73	68	57	50	43	38	34
		40	2.00	80	66	56	50	44	40
		50	2.24	88	74	64	56	49	44
		60	2.44	96	80	70	60	53	48
TP00030 H1/4U-SS0030	.140	20	2.12	84	70	60	52		42
		30	2.60	102	86	74	64	57	51
		40	3.00	18	99	84	74	66	59
		50	3.36	134	110	96	84	72	66
		60	3.68	146	122	104	92	80	72

**** 36" ROW CONVERSION - X .83

Conversion Factors Based on 20" Spacing								
Other Spacing	8"	10"	12"	14"	16"	18"	22"	30"
Conversion Factors	2.5	2.0	1.67	1.43	1.25	1.11	0.91	0.66

Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"	Oiler Plate (in)	Pressure (PSI)	Capacity (GPM)	Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"				
				3 mph	4 mph	5 mph	6 mph	8 mph
				5	10	20	30	40
1016-101	5	133	13.2	9.9	7.9	6.6	4.9	
1016-101	10	138	18.6	14.0	11.2	9.3	7.0	
1016-101	20	266	26	19.8	15.8	13.2	9.9	
1016-101	30	326	32	24	19.4	16.1	12.1	
1016-102	5	141	14.0	10.5	8.4	7.0	5.3	
1016-102	10	200	19.8	14.9	11.9	9.9	7.4	
1016-102	20	283	28	21	16.8	14.0	10.5	
1016-102	30	346	34	26	21	17.2	12.9	
1016-103	5	153	15.2	11.4	9.1	7.6	5.7	
1016-103	10	246	21	16.1	12.9	10.7	8.0	
1016-103	20	306	30	23	18.2	15.2	11.4	
1016-103	30	373	37	28	22	18.6	13.9	
1016-104	5	165	16.3	12.2	9.8	8.1	6.1	
1016-104	10	233	23	17.3	13.6	11.5	8.6	
1016-104	20	329	33	24	19.6	16.3	12.2	
1016-104	30	403	40	30	24	20	15.0	
1016-105	5	173	17.2	12.9	10.3	8.6	6.4	
1016-105	10	245	24	18.2	14.6	12.1	9.1	
1016-105	20	346	34	26	21	17.2	12.9	
1016-105	30	424	42	32	25	21	15.6	
1016-106	5	184	18.3	13.7	11.0	9.1	6.9	
1016-106	10	261	26	19.4	15.5	12.9	9.7	
1016-106	20	369	37	27	22	18.3	13.7	
1016-106	30	452	45	34	27	22	16.8	
1016-107	5	196	19.4	14.6	11.7	9.7	7.3	
1016-107	10	278	27	21	16.5	13.7	10.5	
1016-107	20	393	39	29	23	19.4	14.6	
1016-107	30	481	48	36	29	24	17.9	
1016-108	5	202	20	15.0	12.0	10.0	7.5	
1016-108	10	286	26	21	17.0	14.2	10.6	
1016-108	20	405	40	30	24	20	15.0	
1016-108	30	496	49	37	29	25	18.4	
1016-109	5	216	21	16.1	12.8	10.7	8.0	
1016-109	10	306	30	23	18.2	15.1	11.4	
1016-109	20	432	43	32	26	21	16.1	
1016-109	30	530	52	39	31	26	19.7	
1016-110	5	226	22	16.8	13.4	11.2	8.4	
1016-110	10	320	32	24	19.0	15.8	11.9	
1016-110	20	453	45	34	27	22	16.8	
1016-110	30	554	55	41	33	27	21	
1016-111	5	233	23	17.3	13.9	11.6	8.7	
1016-111	10	330	33	24	19.6	16.3	12.3	
1016-111	20	466	46	35	28	23	17.3	
1016-111	30	571	57	42	34	28	21	
1016-112	5	245	24	18.2	14.6	12.2	9.1	
1016-112	10	347	32	26	21	17.2	12.9	
1016-112	20	491	49	36	29	24	18.2	
1016-112	30	601	60	45	36	30	22	
1016-113	5	272	27	20	16.2	13.5	10.1	
1016-113	10	385	38	29	23	19.1	14.3	
1016-113	20	544	54	40	32	27	20	
1016-113	30	667	66	50	40	33	25	
1016-114	5	280	28	21	16.7	13.9	10.4	
1016-114	10	396	39	29	24	19.6	14.7	
1016-114	20	561	56	42	33	28	21	
1016-114	30	687	68	51	41	34	25	
1016-115	5	292	29	22	17.3	14.4	10.8	
1016-115	10	412	41	31	24	20	15.3	
1016-115	20	583	58	43	35	29	22	
1016-115	30	714	71	53	42	35	27	
1016-116	5	318	31	24	18.9	15.7	11.8	
1016-116	10	449	44	33	27	22	16.7	
1016-116	20	635	63	47	38	31	24	
1016-116	30	778	77	58	46	39	29	

Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"	Oiler Plate (in)	Pressure (PSI)	Capacity (GPM)	Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"				
				3 mph	4 mph	5 mph	6 mph	8 mph
				5	10	20	30	40
1016-117	5	332	33	25	19.7	16.4	12.3	
1016-117	10	469	46	35	28	23	17.4	
1016-117	20	664	66	49	39	33	25	
1016-117	30	813	81	60	48	40	30	
1016-118	5	346	34	26	21	17.2	12.9	
1016-118	10	496	49	36	29	24	18.2	
1016-118	20	693	69	51	41	34	26	
1016-118	30	849	84	63	50	42	32	
1016-119	5	370	37	27	22	18.3	13.7	
1016-119	10	523	52	39	31	26	19.4	
1016-119	20	739	73	55	44	37	27	
1016-119	30	905	90	67	54	45	34	
1016-120	5	387	38	29	23	19.2	14.4	
1016-120	10	547	54	41	32	27	20	
1016-120	20	774	77	57	46	38	29	
1016-120	30	948	94	70	56	47	35	
1016-121	5	404	40	30	24	20	15.0	
1016-121	10	572	57	42	34	28	21	
1016-121	20	808	80	60	48	40	30	
1016-121	30	990	98	74	59	49	37	
1016-122	5	442	44	33	26	22	16.4	
1016-122	10	625	62	46	37	31	23	
1016-122	20	883	87	66	52	44	33	
1016-122	30	108	107	80	64	54	40	
1016-123	5	462	46	34	27	23	17.2	
1016-123	10	653	65	49	39	32	24	
1016-123	20	924	91	69	55	46	34	
1016-123	30	113	112	84	67	56	42	
1016-124	5	520	51	39	31	26	19.3	
1016-124	10	735	73	55	44	36	27	
1016-124	20	104	103	77	62	51	37	
1016-124	30	127	126	95	76	63	47	
1016-125	5	548	54	41	33	27	20	
1016-125	10	776	77	56	46	38	29	
1016-125	20	110	109	81	65	54	41	
1016-125	30	134	133	100	80	67	50	
1016-126	5	606	60	45	36	30	23	
1016-126	10	852	85	64	51	42	32	
1016-126	20	121	120	90	72	60	45	
1016-126	30	149	147	110	88	74	55	
1016-127	5	632	63	47	38	31	23	
1016-127	10	894	89	66	53	44	33	
1016-127	20	126	125	94	75	63	47	
1016-127	30	155	153	115	92	77	57	
1016-128	5	693	69	51	41	34	26	
1016-128	10	980	97	73	58	49	36	
1016-128	20	139	137	103	82	69	51	
1016-128	30	170	168	126	101	84	63	
1016-129	5	722	71	54	43	36	27	
1016-129	10	102	101	76	61	51	38	
1016-129	20	144	143	107	86	71	54	
1016-129	30	177	175	131	105	88	66	
1016-130	5	774	77	57	46	38	29	
1016-130	10	109	108	81	65	54	41	
1016-130	20	155	153	115	92	77	57	
1016-130	30	190	188	141	113	94	70	
1016-131	5	840	83	62	50	42	31	
1016-131	10	119	118	88	71	59	44	
1016-131	20	168	166	125	100	83	62	
1016-131	30	206	204	153	122	102	76	
1016-132	5	895	89	66	53	44	33	
1016-132	10	127	125	94	75	63	47	
1016-132	20	179	177	133	106	89	66	
1016-132	30	219	217	163	130	109	81	

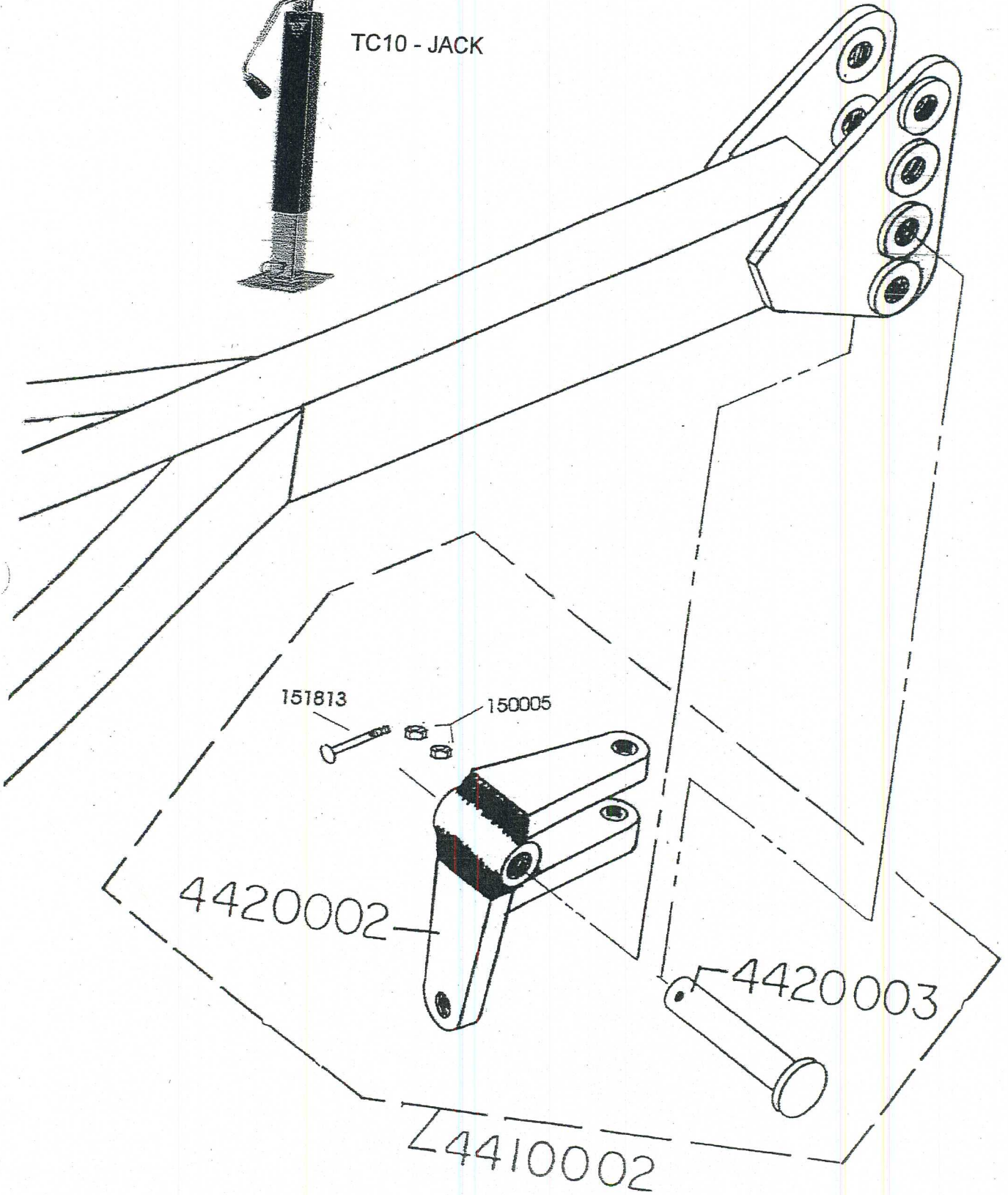
Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"	Oiler Plate (in)	Pressure (PSI)	Capacity (GPM)	Gallons Per Acre Based on Water with Flow Regulators Spaced at 20"				
				3 mph	4 mph	5 mph	6 mph	8 mph
				5	10	20	30	40
1016-133	5	927	92	69	55	46	34	
1016-133	10	131	130	97	78	65	49	
1016-133	20	185	183	138	110	92	69	
1016-133	30	227	225	169	135	112	84	
1016-134	5	953	94	71	57	47	35	
1016-134	10	135	133	100	80	67	50	
1016-134	20	191	189	141	113	94	71	
1016-134	30	233	231	173	139	116	87	
1016-135	5	104	103	77	62	51	39	
1016-135	10	147	146	109	87	73	55	
1016-135	20	208	206	154	123	103	77	
1016-135	30	255	252	189	151	126	95	
1016-136	5	110	109	81	65	54	41	
1016-136	10	155	154	115	92	77	58	
1016-136	20	219	217	163	130	109	81	
1016-136	30	269	266	200	160	133	100	
1016-137	5	116	114	86	69	57	43	
1016-137	10	163	162	121	97	81	61	
1016-137	20	231	229	171	137	114	86	
1016-137	30	283	280	210	168	140	105	
1016-138	5	121	120	90	72	60	45	
1016-138	10	172	170	127	102	85	64	
1016-138	20	243	240	180	144	120	90	
1016-138	30	297	294	221	176	147	110	
1016-139	5	130	129	97	77	64	48	
1016-139	10	184	182	137	109	91	68	
1016-139	20	260	258	193	155	129	97	
1016-139	30	319	316	237	189	158	118	
1016-140	5	136	134	101	81	67	50	
1016-140	10	192	190	142	114	95	71	
1016-140	20	271	269	201	161	134	101	
1016-140	30	332	329	247	197	165	123	
1016-141	5	142	140	105	84	70	53	
1016-141	10	200	198					

**LOADED RADIUS OF VARIOUS TIRES -
FOR USE IN SETTING JOHN BLUE
GROUND-DRIVEN PUMPS**

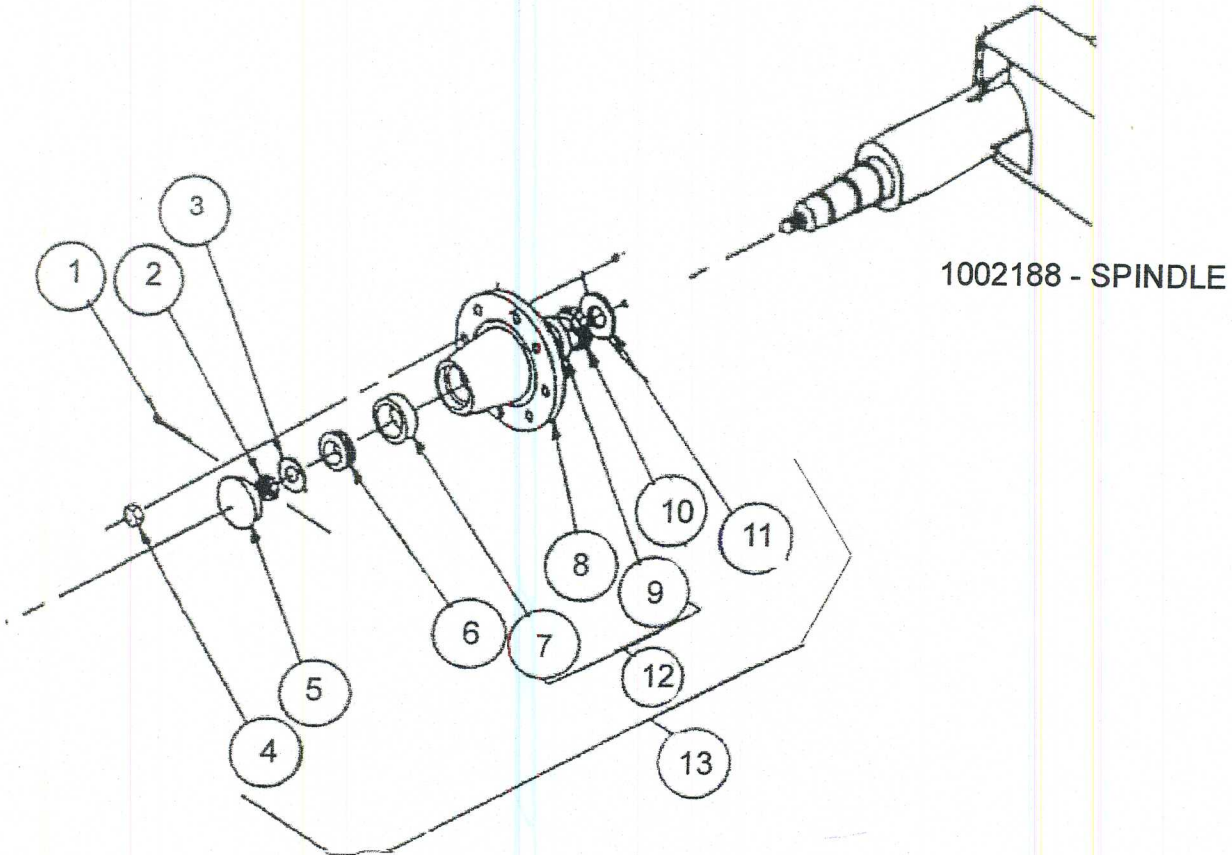
TIRE SIZE	LOADED RADIUS	TIRE SIZE	LOADED RADIUS
6.70-15SL	12.9	9.00-20	19.0
7.60-15SL	13.4	10.0-20	19.6
9.5L-15SL	13.6	11.0-20	20.1
10.0-15SL	15.1	12.0-20	20.6
11L-15SL	13.5	15.00-22.5	20.0
12.5L-15SL	14.5		
9.00-16SL	14.7		
11L-16SL	13.9		
12.5L-16SL	15.0		
13.5L-16.1SL	17.5		
16.5L-16.1SL	17.3		
4.8-8	7.5		
18-9.5	7.8		
16 X 6.50-8	7.4		



TC10 - JACK



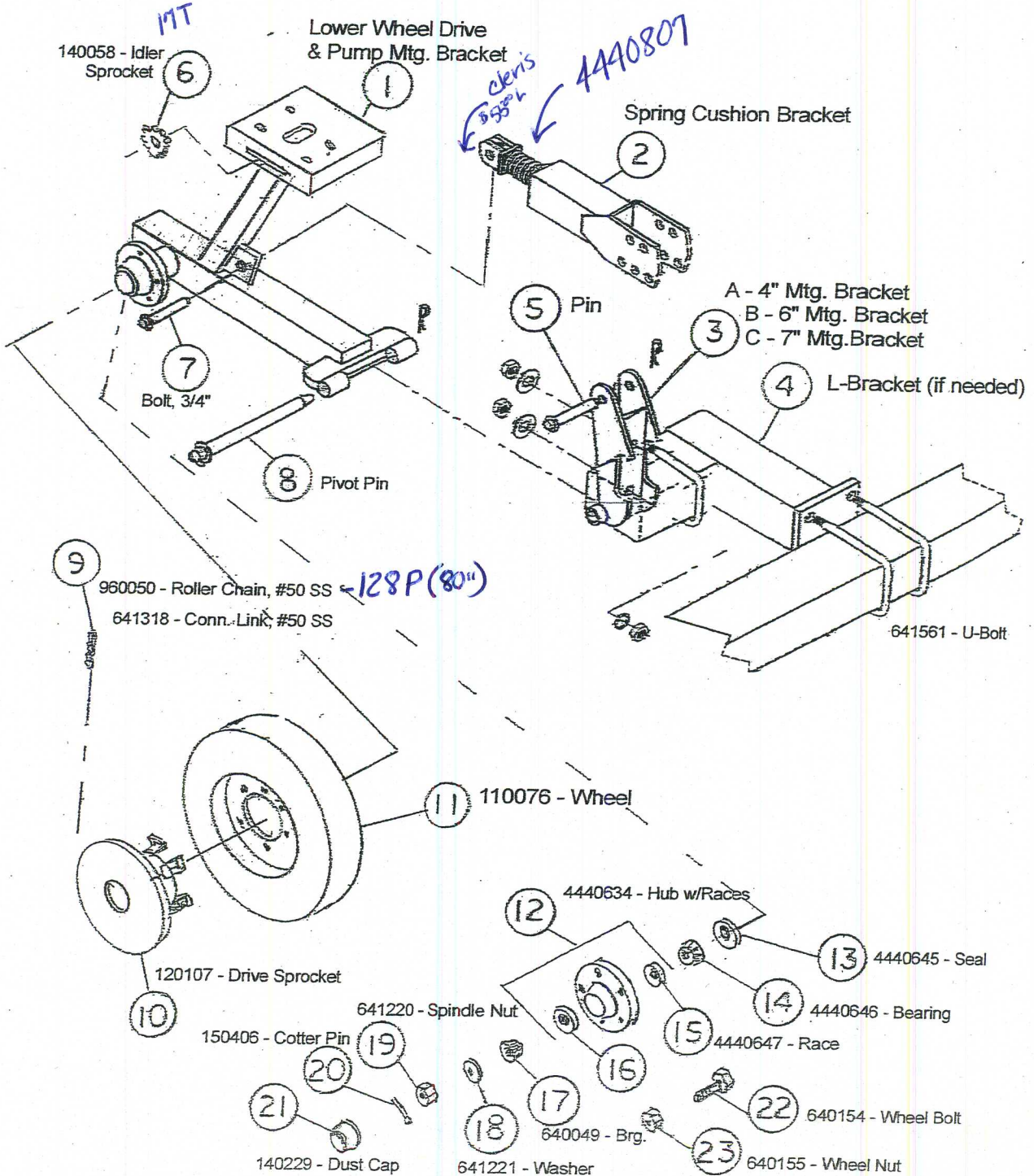
8 & 10 BOLT HUB & SPINDLE ASSEMBLY



ITEM	PART NUMBER 8 BOLT	DESCRIPTION	PART NUMBER 10 BOLT 871 HUB	PART NUMBER 10 BOLT 873 HUB
1	1000817	COTTER PIN	P401904	P401904
2	1000884	NUT, HEX	1-1/4 - P251702	1-1/4 - P251702
3	1000883	FLATWASHER	P301808	P301808
4	1000533	NUT, WHEEL	P201608	P201608
5	1000885	DUST CAP	P502016	P502016
6	1002199	BEARING, OUTER	460	460
7	1002197	RACE, OUTER	453A	453A
8	N/A	HUB ONLY	N/A	N/A
9	1002196	RACE, INNER	39520	33462
10	1002198	BEARING, INNER	39590	33275
11	1002200	SEAL	P602128	P602127
12	1002191	HUB WITH RACES	871-300-10	873-300-10
13	1002194	HUB COMPLETE	871-204-10	873-200-10
NOTE: (871 HUB WAS USED THRU SERIAL # ENDING 04091)				
NOTE: (873 HUB WAS USED AS OF AUGUST 1, 2004)				

Stud Bolt - P157409

**4410116 - GROUND DRIVE ASSMY - (LESS PUMP)
 WITH LUG TIRE**



P.O. BOX 70
 602 EAST VAN BUREN
 LENOX, IA 50851

Dalton

AG PRODUCTS, INC.
 Manufacturers of Fertilizer Application Equipment

PH. 1-641-333-4518
 FAX 1-641-333-4429
 1-800-342-7498

TWO HOLE FLAT GOES INSIDE OF COULTER ARM NEXT TO DISC.

NOZZLE ARM GOES ON OUTSIDE OF COULTER ARM WITH 1/2" PIPE DIRECTLY BEHIND COULTER BLADE.

*AAM
 TT 9/6/212*

3/4 x 3/4 x 3/8 - new unit - delivered in '08

4676-SS-1/4-adapter

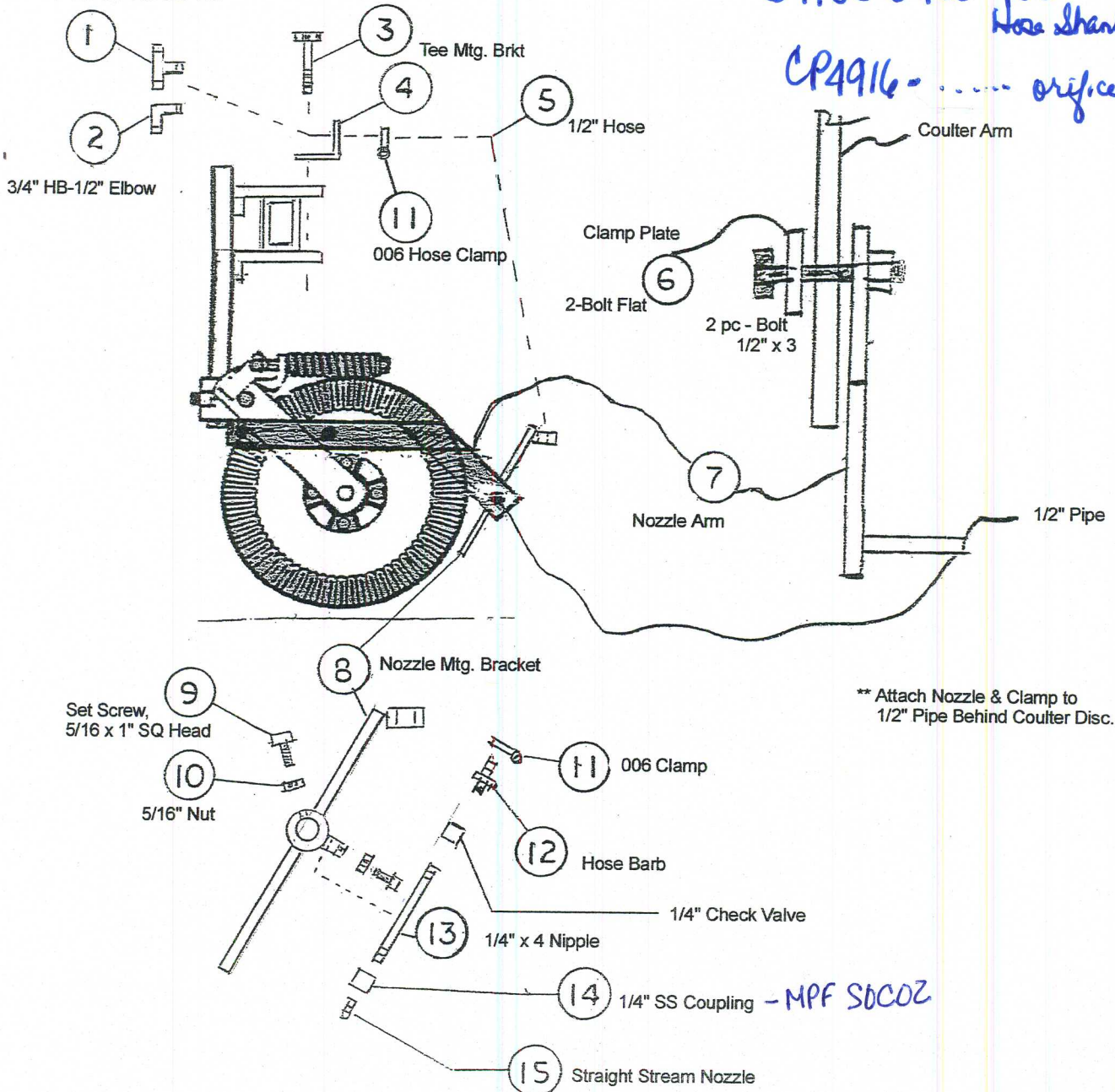
39188 8400-406 SS-

Hose Shank Assy

CP4916-..... orifice plate

Tee - 3/4" HB-3/4" HB-1/2" HB - older

Bolt, 5/8 x 8 NC



** Attach Nozzle & Clamp to 1/2" Pipe Behind Coulters Disc.

-MPF SDC02

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LENOX, IA 50851



Manufacturers of Fertilizer Application Equipment

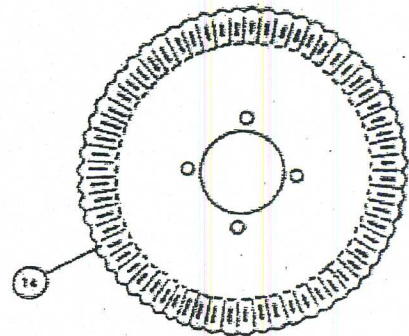
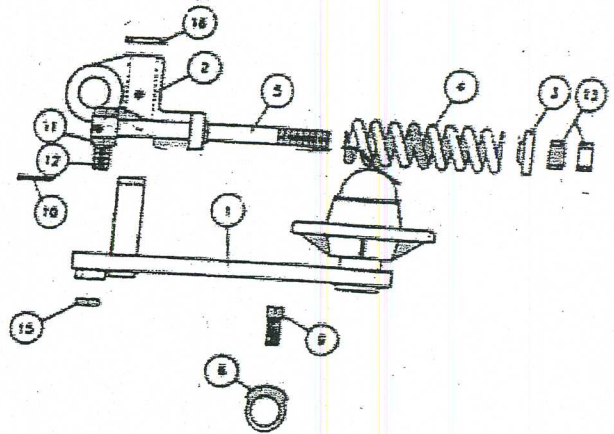
PH. 1-641-333-4518
FAX 1-641-333-4429
1-800-342-7498

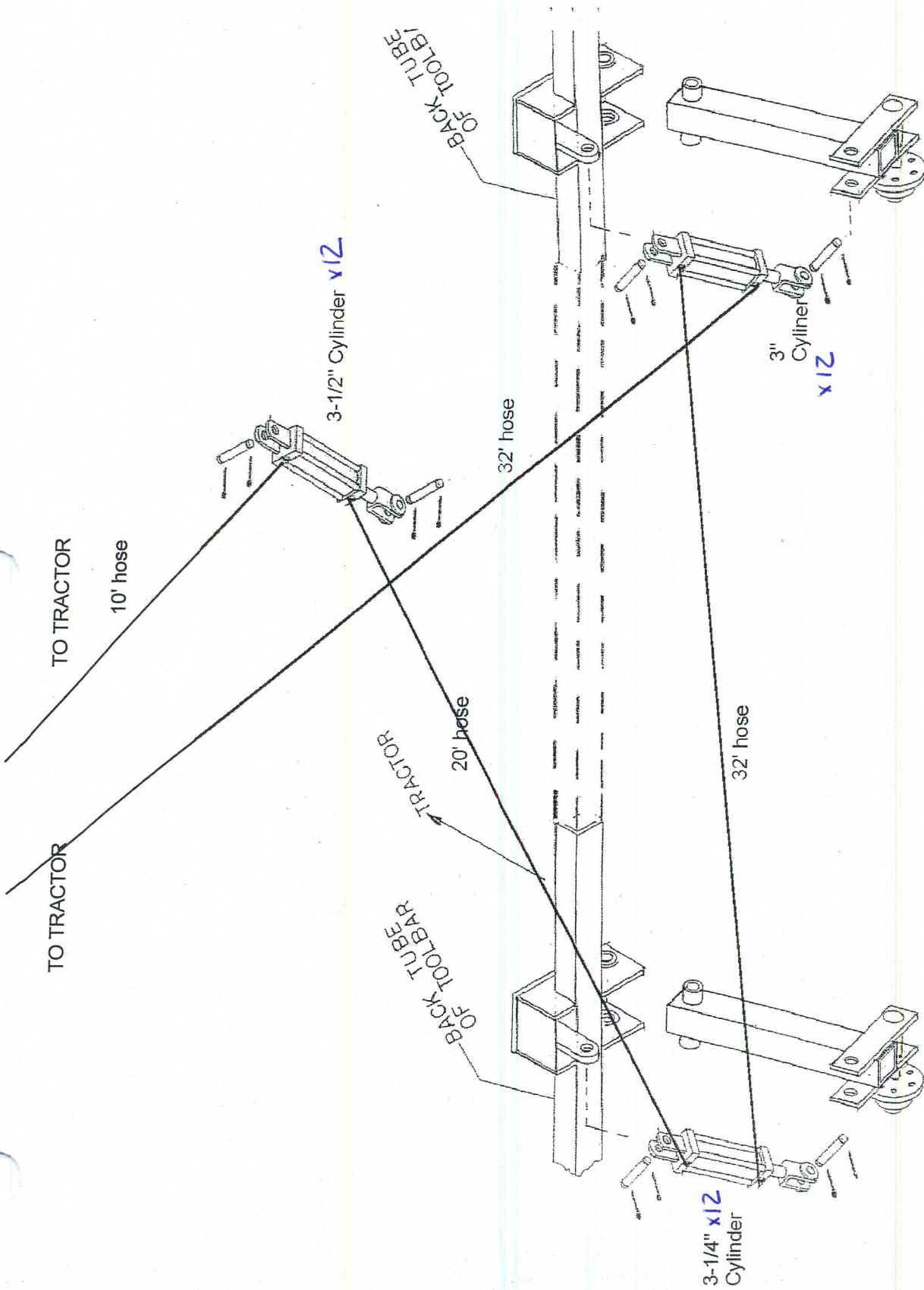
2910 SERIES YETTER COULTER

* 2910-127 - ALL ITEM EXCEPT NO. 14

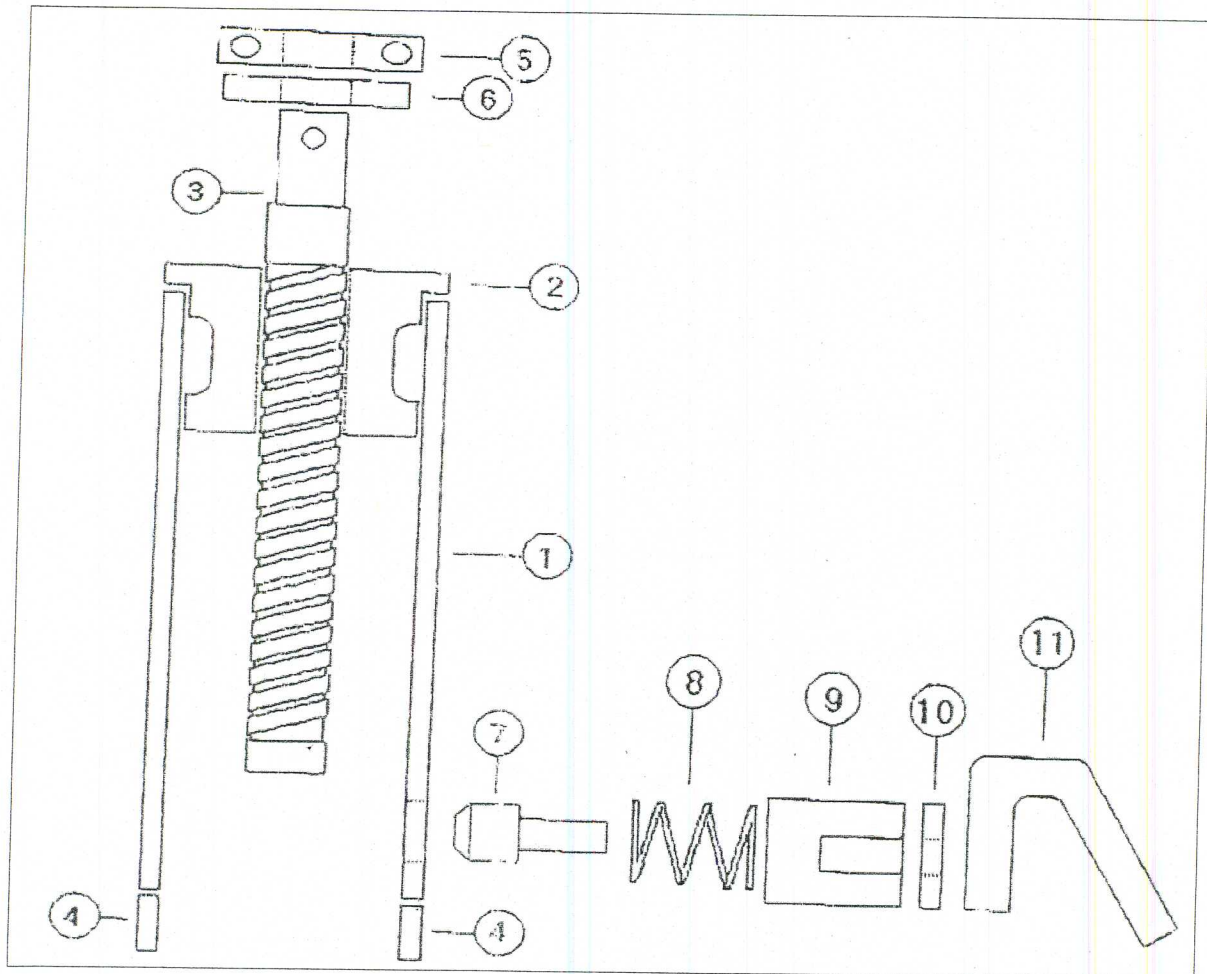
* 2910-127 A - INCLUDES: NOS. 2, 3, 4, 5, 10,
11, 12, 13 & 14

1. 4440629 (2910-201) - COULTER ARM W.A.
4440630 (2910-119) - ARM & HUB ASSMY.
4440631 (2910-127) - SPRING CUSHIONED BRKT
& HUB ASSMY.
2910-127 BB - SPRING CUSHIONED BRKT & HUB
ASSMY. (BLACK)
 2. 4440576 (2910-320) - HINGE CASTING
 3. 4440578 (2910-302) - SPRING BUSHING
 4. 4440790 (2910-311) - SPRING
 5. 2910-121 - PUSH ROD ASSEMBLY
 6. 4440521 (2910-301) - LOCKING COLLAR (RED)
2910-301 BB - LOCKING COLLAR (BLACK)
 9. 4440625 (2503-379) - 5/8"-11 X 1 SQ. HCSS
 10. 2531-151 - COTTER KEY, 1/4" X 1-3/4" (BLACK)
 11. 2520-312 - JAM NUT, 3/4"-16 ZP
 12. 2502-410 - HHCS, 3/4"-16 X 3" GR. 5 ZP
 13. 2520-504 - HEX NUT, 3/4" - 16 ZP.
 14. 4440782 - 20" NOTCHED BLADE
4440783 - 20" FLUTED BLADE
4440784 - 20" SMOOTH BLADE
 15. 2520-510 - LOCK HEX NUT, 3/4"-16 ZP
 16. 2526-561 - BUSHING, 1-17/64" ID X 7/8" X 14 GA
MACHINERY (BLACK)
 17. 4440626 (2900-108) - COULTER SPINDLE
(NOT SHOWN)
- 2571-168 - FLUTED MULTI-PUNCH, 20"



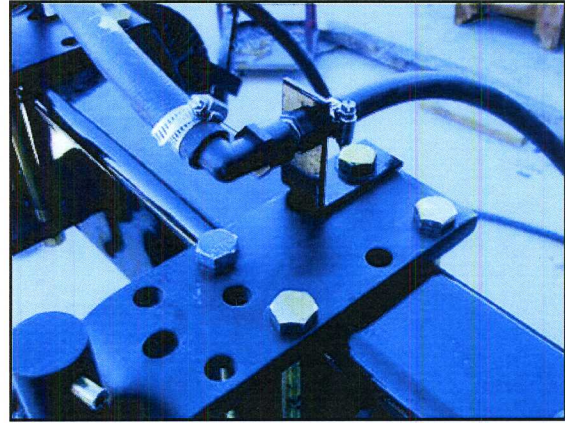


TC-10 JACK



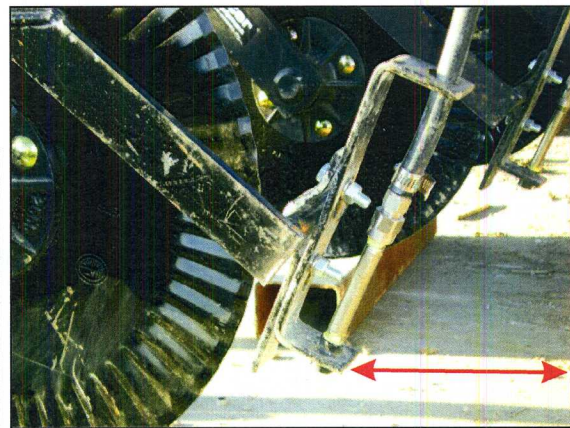
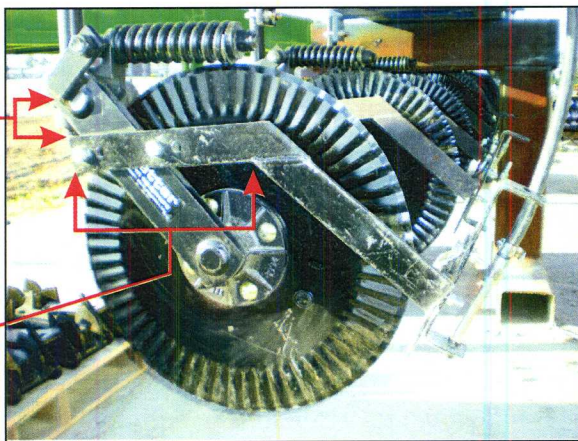
NO.	PART NO.	DESCRIPTION
1	ST/31212019	MIDDLE TUBE
2	PA/NT12S	CAST NUT
3	PA/JSJ11410	JACK SCREW
4	PA/BBH1412	BOT.BANK/HAND (2)
5	PA/64T64	THRUST BEARING
6	PA/C134	COLLAR

ASSEMBLY OF LIQUID APPLICATOR



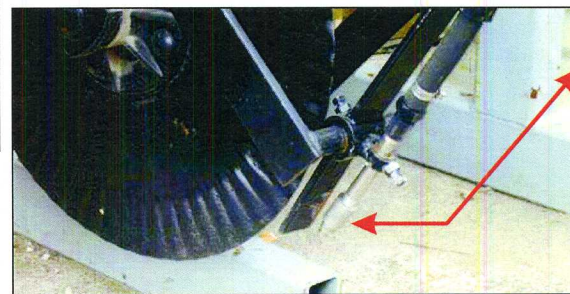
Install Arm
Roughly
2 1/2"
Below
Spring
Anchor

Keep Arm
Level



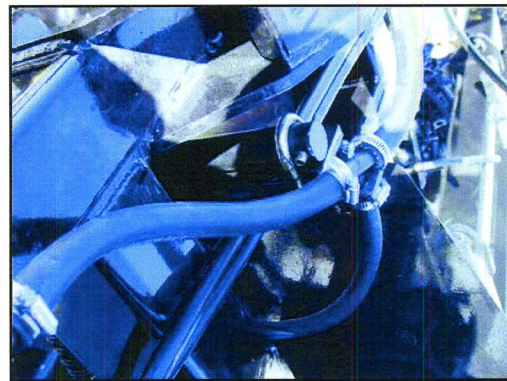
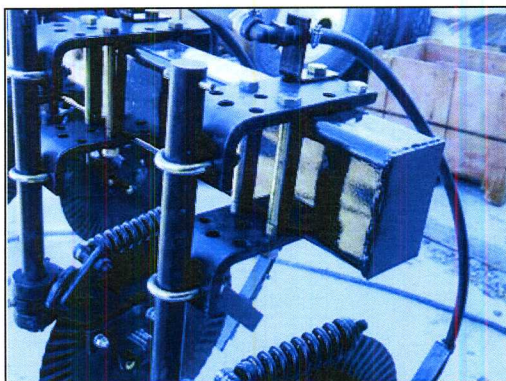
New Style
Nozzle
Bracket

Point
Nozzle
Forward
Towards
Blade



Old Style
Nozzle
Bracket

COULTER
ROD 2"
ABOVE
TOP OF
PLATE TO
TOP OF
ROUND
SHANK

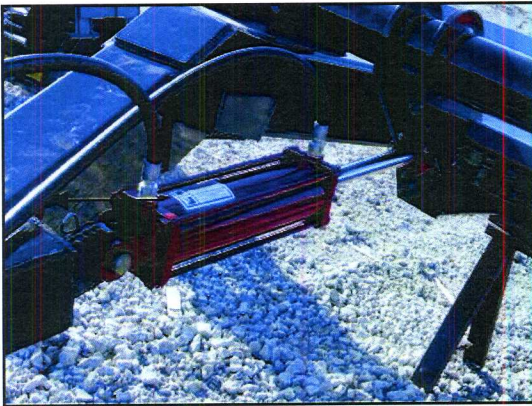




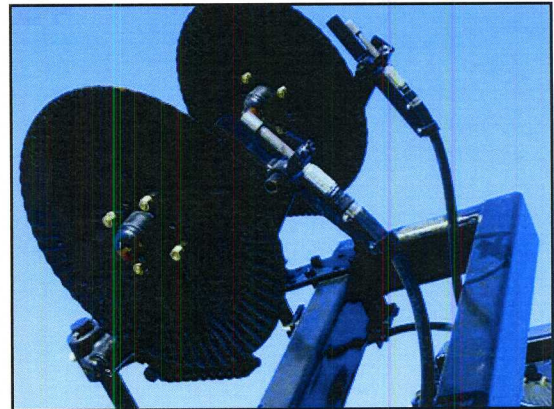
HYDRUALIC TREE FOR DOUBLE FOLD WINGS



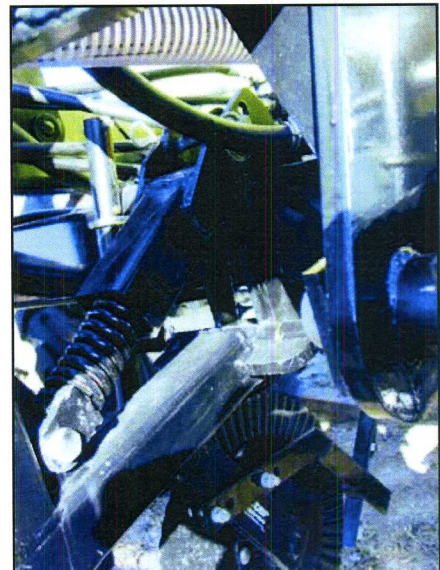
REMOVABLE SPACER'S FOR WING TILT

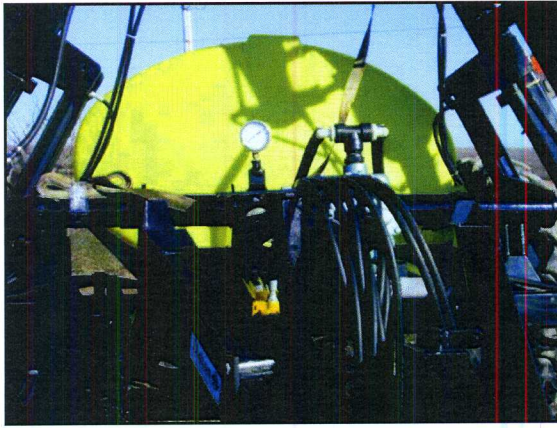


MAIN LIFT CYLINDER 3-1/2 X 12"
STROKE WITH TRANSPORT LOCK-UP



REMOVE SPACERS FOR WING TILT





HOSE & PRESSURE GAUGE MOUNTING BRACKET



TEE ON DISCHARGE SIDE OF PUMP WITH 2-FEEDER LINES TO BOOM HOSE, 2" ST EL HOSEBARB IN SUCTION SIDE OF PUMP



CROSS SHAFT GREASE BOLT WITH BUSHING INSIDE OF CROSS SHAFT LIFT ARM



TIGHTNER ON SLACK SIDE OF PUMP DRIVE CHAIN



GREASE BOLTS WITH BUSHINGS INSIDE OF PULL ARMS.

↑
4440238, Grease Bolt, 1" x 4 1/2" Grd 5
150061, Nut, 1"

BAR TO FRAME ASSEMBLY



FRONT OF FRAME



FRONT OF BAR

CONNECTION
POINTS

1

&

2



ALIGNMENT

ALIGN FRAME TO
BAR AS SHOWN

BE SURE TO USE ALL 6
BUSHINGS-
1.0625"IDX1.5"ODX2.375"
GREASABLE BOLTS-
1"-8X4.5" & NUTS
IN ALL 3 ATTACHMENT
POINTS ON BOTH SIDES

INSERT BUSHINGS IN
THESE LOCATIONS
ON EACH SIDE

ASSEMBLY



FINAL ASSEMBLY

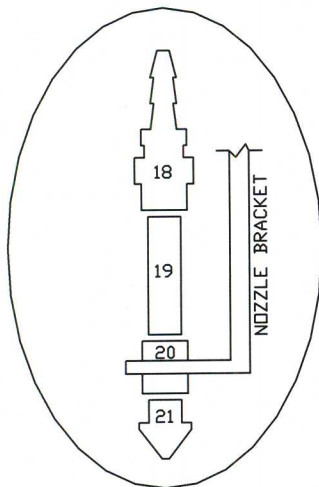
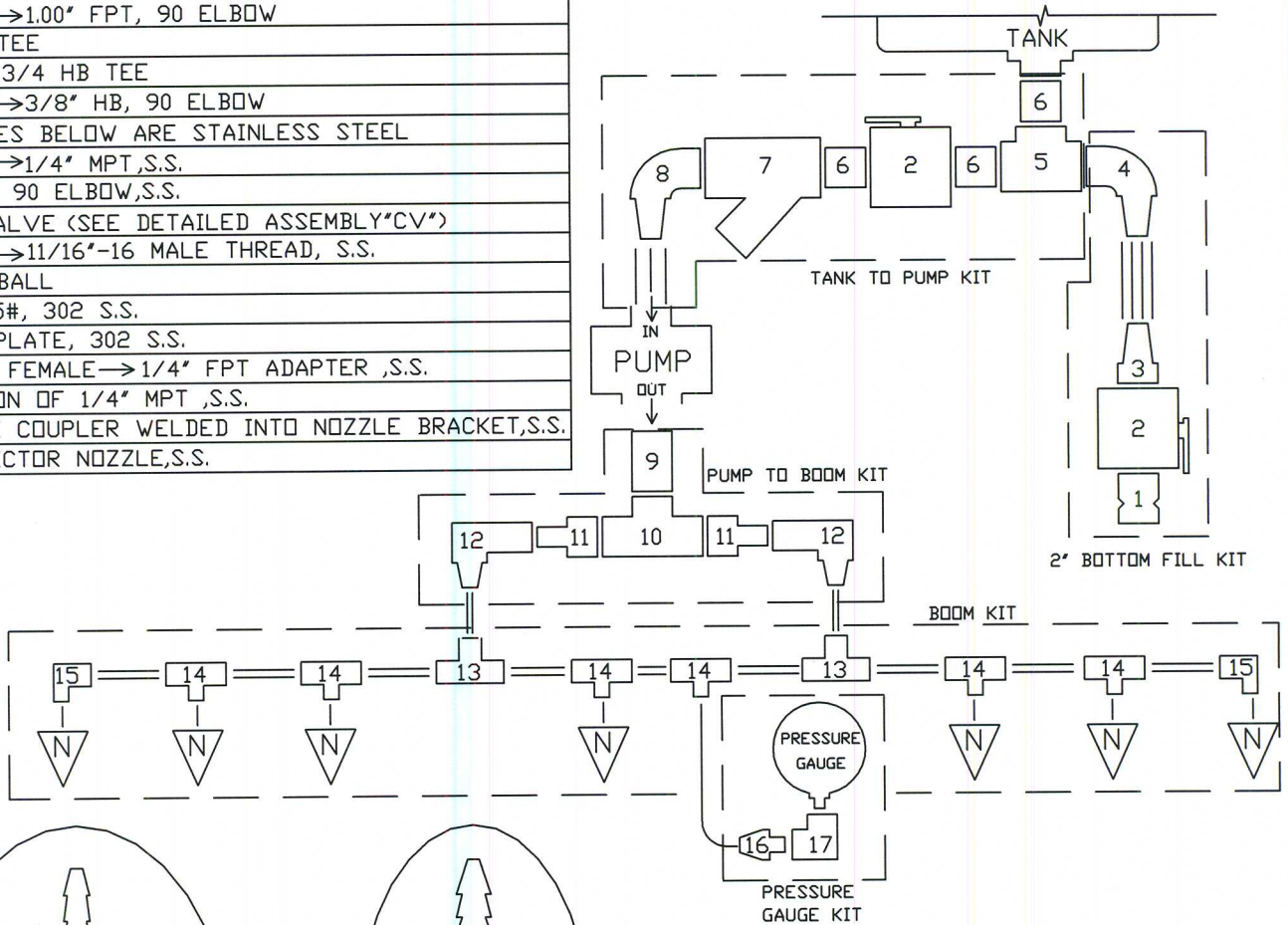


PART DESCRIPTIONS

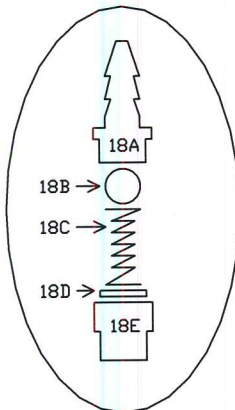
1	2" MPT, MALE QUICK COUPLER
2	2" FPT BALL VALVE
3	2" HB → 2" MPT
4	2" HB → 2" MPT, 90 ELBOW
5	2" FPT TEE
6	2" MPT, SHORT NIPPLE
7	2" FPT, LINE STRAINER
8	1.5" HB → 2" MPT, 90 ELBOW
9	1.5" MPT, SHORT NIPPLE
10	1.5" FPT, TEE
11	1.00" MPT → 1.5" MPT
12	3/4" HB → 1.00" FPT, 90 ELBOW
13	3/4" HB TEE
14	3/4" x 3/8" x 3/4" HB TEE
15	3/4" HB → 3/8" HB, 90 ELBOW
ALL PIECES BELOW ARE STAINLESS STEEL	
16	3/8" HB → 1/4" MPT, S.S.
17	1/4" FPT, 90 ELBOW, S.S.
18	CHECK VALVE (SEE DETAILED ASSEMBLY "CV")
18A	3/8" HB → 1 1/16" - 16 MALE THREAD, S.S.
18B	302 S.S. BALL
18C	SPRING, 5#, 302 S.S.
18D	DRIFICE PLATE, 302 S.S.
18E	1 1/16" - 16 FEMALE → 1/4" FPT ADAPTER, S.S.
19	4" SECTION OF 1/4" MPT, S.S.
20	1/4" PIPE COUPLER WELDED INTO NOZZLE BRACKET, S.S.
21	1/4" INJECTOR NOZZLE, S.S.

HOSE CALLOUTS

	3/8" I.D. HOSE
	3/4" I.D. HOSE
	1.5" I.D. HOSE
	2" I.D. HOSE



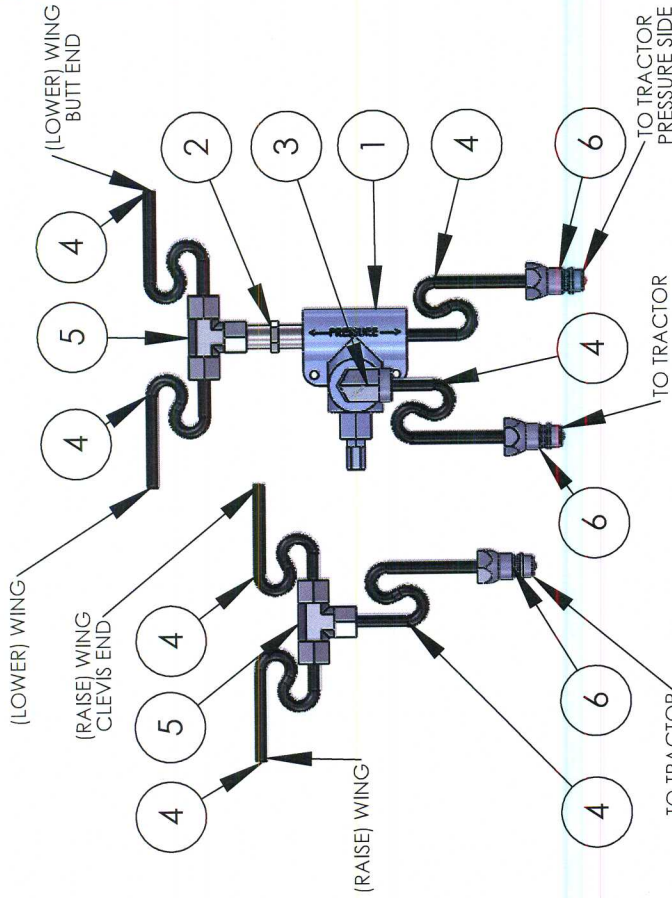
SIDE VIEW
INJECTOR NOZZLE DETAIL



SIDE VIEW
CHECK VALVE DETAIL
CV

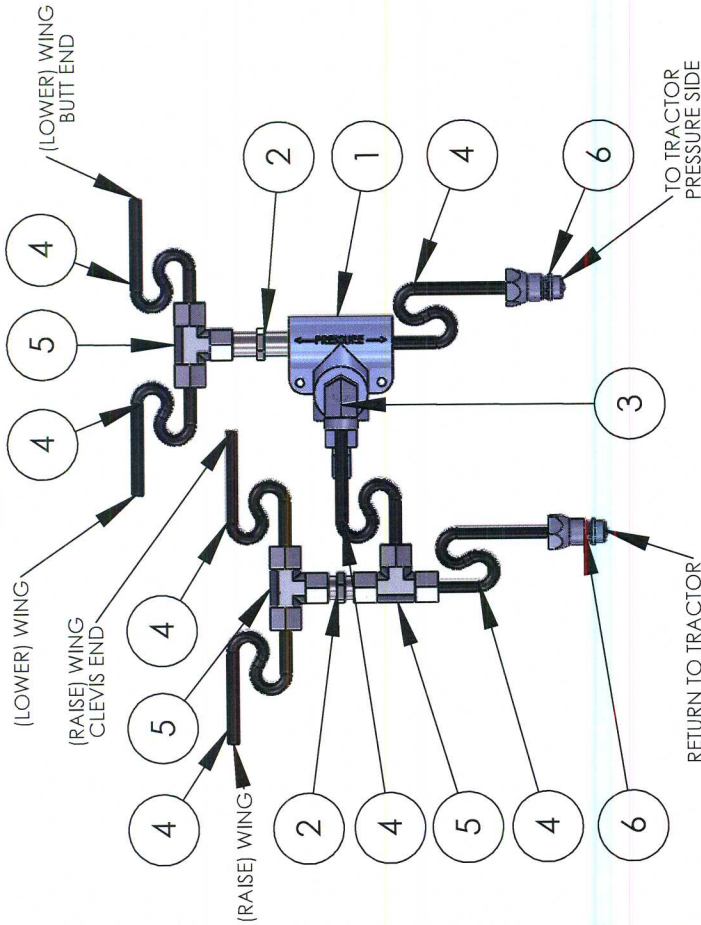
CMC-DALTON AG	
TITLE: DLQ LIQUID PLUMBING SCHEMATIC	
DRAWN BY: RICH SMOTHERS	DATE: 3-24-2009
PROPRIETARY AND CONFIDENTIAL	
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NEW STYLE



ITEM NO.	PART NUMBER	QTY.
1	RV-4 RELIEF VALVE	1
2	2 INCH NIPPLE, .5INCH NPT	1
3	ELBOW, 90 DEGREE, .5 INCH	1
4	HOSE, .375 INCH	7
5	T COUPLER, .5 INCH NPT	2
6	PIONEER FITTING, .5 INCH	3

OLD STYLE



ITEM NO.	PART NUMBER	QTY.
1	RV-4 RELIEF VALVE	1
2	2 INCH NIPPLE, .5INCH NPT	2
3	ELBOW, 90 DEGREE, .5 INCH	1
4	HOSE, .375 INCH	7
5	T COUPLER, .5 INCH NPT	3
6	PIONEER FITTING, .5 INCH	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:
 MATERIAL: STEEL
 FINISH:
 DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL

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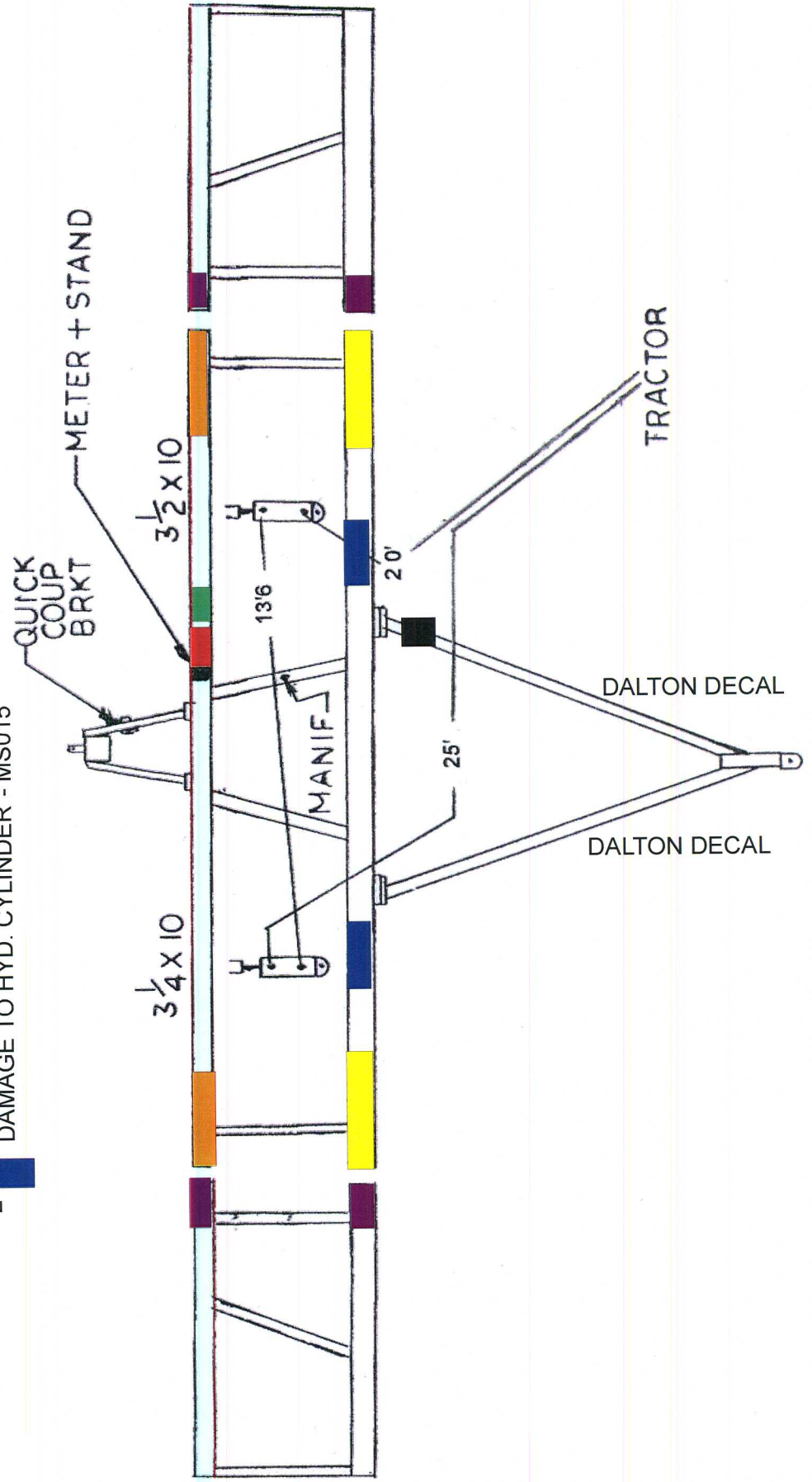
CMC/DALTON AG
 602 E. VAN BUREN ST., LENOX, IA 50851

TITLE: **LIQUID APP
 DOWN PRESSURE
 KIT**

SIZE DWG. NO. **A** **DOWN PRESSURE** REV **A**

SCALE: 1:6 SHEET 1 OF 1

- 1 SERIAL TAG - 140203
- 4 CAUTION - STAND CLEAR OF WINGS - MS013
- 2 OPER. & SAFETY INSTRUCTION - MS011 & MS010
- 1 DANGER - WEAR GOGGLES
- 2 DAMAGE TO HYD. CYLINDER - MS015





LIMITED WARRANTY

Cox Manufacturing Company dba Dalton Ag Products warrants all products, including all equipment and accessories, manufactured by CMC - Dalton Ag Products 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.

CMC - Dalton Ag Products obligation under this warranty is limited to the repair or replacement of parts (not including labor) which have been returned to CMC - Dalton Ag Products factory freight prepaid, and after inspection, are deemed by CMC - Dalton Ag Products to be defective. In no event shall CMC - Dalton Ag Products be liable for special or consequential damages except as may be approved by CMC - Dalton Ag Products in advance in writing. This warranty shall not apply to components parts which are not manufactured by CMC - Dalton Ag Products. Neither shall this warranty apply to any parts or components 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 CMC - Dalton Ag Products 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 judgment of CMC - Dalton Ag Products 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 CMC - Dalton Ag Products and CMC - Dalton Ag Products neither assumes nor authorizes any other person to assume for 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.
3. Returned goods will not be accepted without our consent. All returned merchandise is subject to 10% restocking charge.
4. Goods returned for credit must be prepaid and accompanied by CMC - Dalton Ag bill of lading or letter of explanation giving order numbers, invoice number, date purchased and reason for returning merchandise. If error is made by CMC - Dalton Ag, we will accept merchandise freight collect if returned by lowest transportation cost. Goods must be returned within sixty 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.