MODEL 3500
PIVOT FOLD PLANTER
PARTS MANUAL

M0258-02 Rev. 9/17

This manual is applicable to: Model: 3500 Twin-Line Planters (With Conventional Hoppers)
2015 - 2018 Production

Record the model number and serial number of your planter along with date purchased:

Serial Number _____

Date Purchased_____

Information in this manual was current at time of printing. However, due to Kinze's ongoing product improvement, production changes may cause your machine to appear slightly different in detail. Kinze Manufacturing, Inc. reserves the right to change specifications or design without notice and without incurring obligation to install the same on machines previously manufactured.

Right hand (R.H.) and left hand (L.H.), as used throughout this manual, are determined by facing in the direction the machine will travel when in use, unless otherwise stated.

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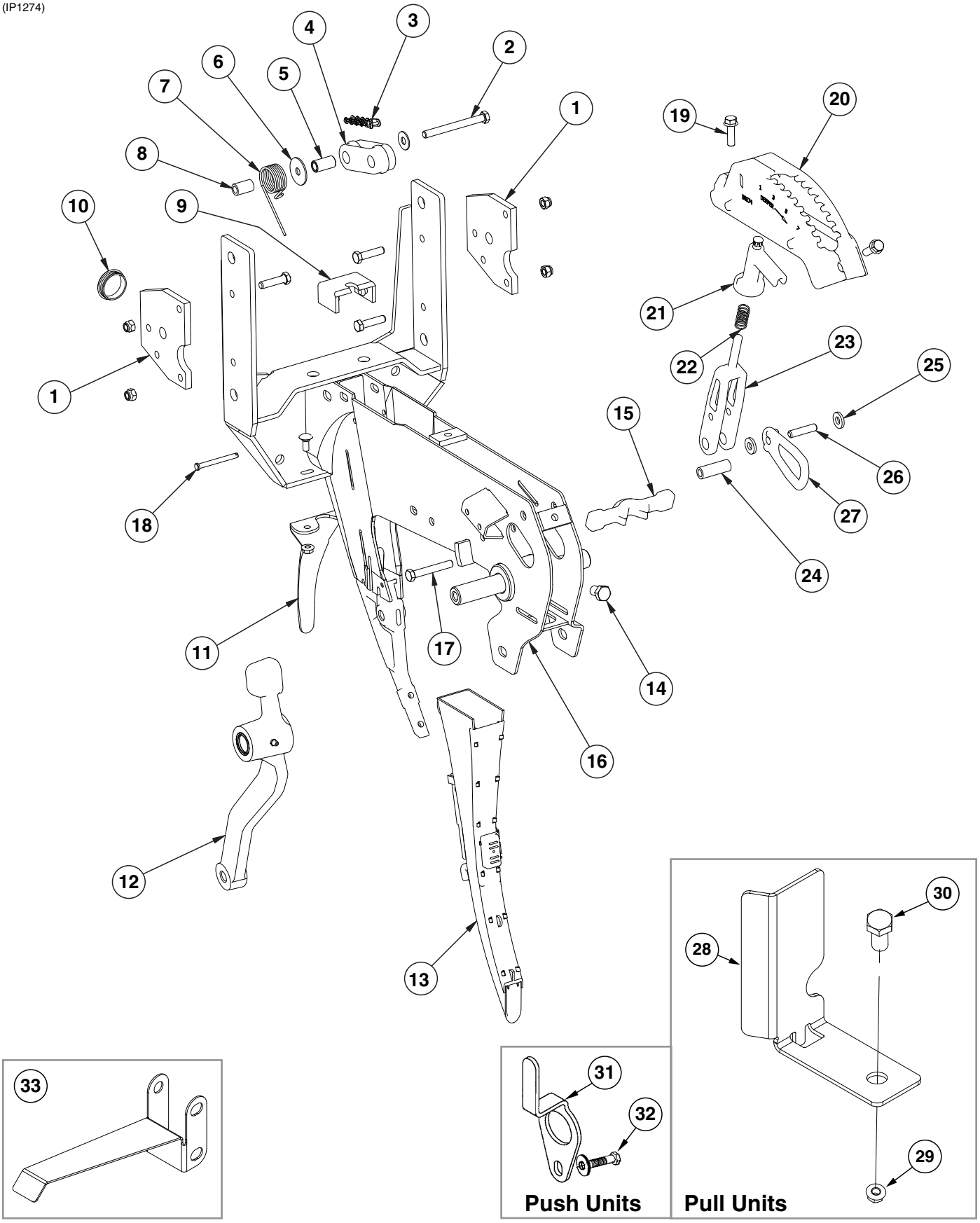
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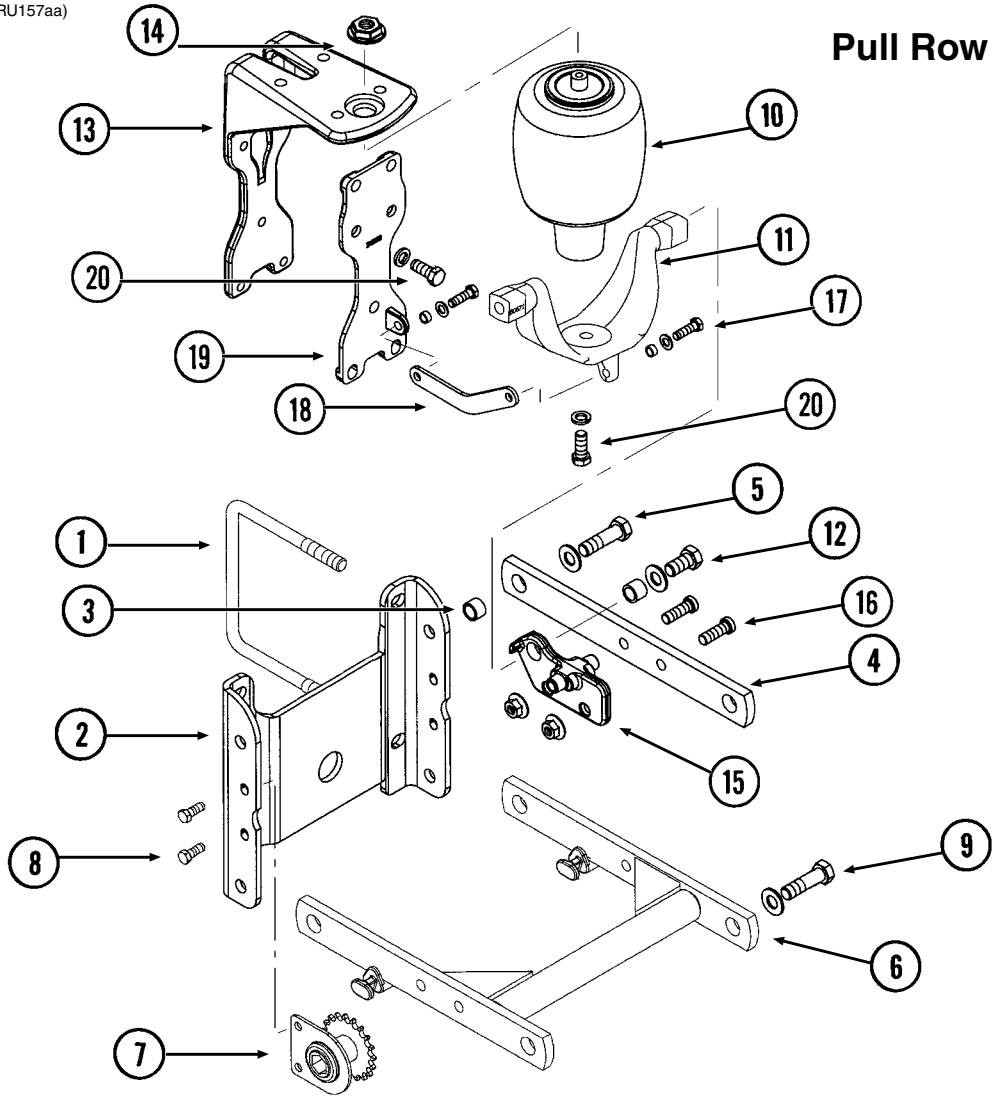
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Push Units
Pull Units

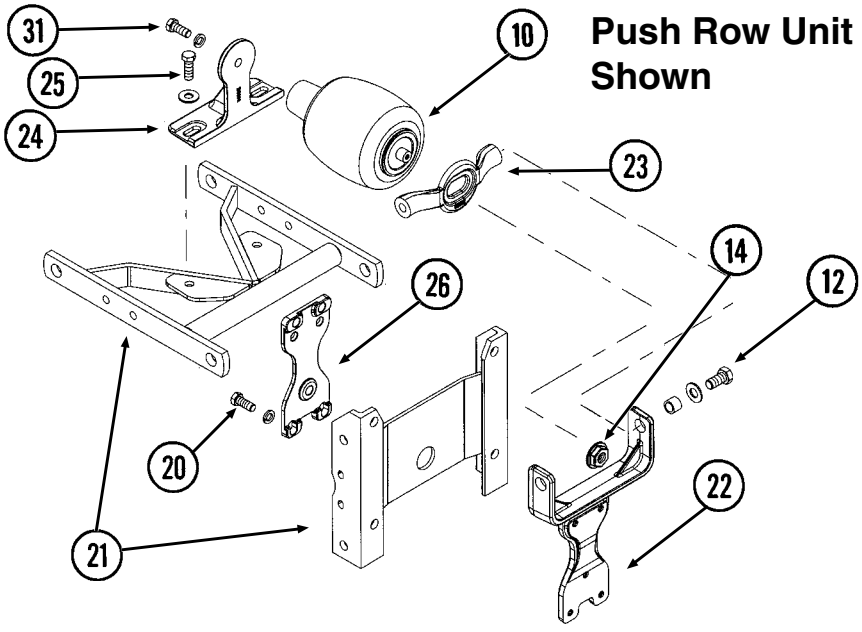
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD24545	2	Stop
	G10003	3	Hex Head Cap Screw, ⅜"-16 x 1½"
	G10108	4	Lock Nut, ⅜"-16
2	G10326	1	Hex Head Cap Screw, ⅜"-16 x 3¾"
	G11387	1	Flat Washer, ⅜" SAE
3	G3303-98	-	Chain, No. 41, 98 Pitch Including Connector Link (Mechanical)
	G3303-108	-	Chain, No. 41, 108 Pitch Including Connector Link (Vacuum)
	G3303-16	-	Chain, No. 41, 16 Pitch Including Connector Link (Used W/Row Unit Extension Brackets)
	GR0196	-	Connector Link, No. 41
4	GD11962	1	Idler
5	GD1026	1	Sleeve, 1⅜₁₆" Long
6	G10201	1	Special Washer, ⅜" x 1½" O.D.
7	GD1065	1	Idler Spring
8	GD7318	1	Sleeve, 1" Long
9	GD16245	1	Sun Shade (Rubber)
10	GD11845	1	Dust Cap
11	GD28390	1	Shield
	G10312	2	Carriage Bolt, ⅝₁₆"-18 x ¾"
	G10620	2	Serrated Flange Nut, ⅝₁₆"-18
12	---	-	See “Gauge Wheels” on page P9
13	---	-	See “KPM III Electronic Seed Monitor” on page P107
14	G10438	1	Hex Head Cap Screw, ½"-13 x ¾"
15	GB0265	1	Pivot Link, Depth Adjustment
16	GA10157	1	Shank W/Gauge Wheel Pivot Spindle And Set Screw
17	G11592	1	Hex Head Cap Screw, ⅜"-24 x 2¾", Grade 8
	G11591	1	Nylon Lock Nut, ⅜"-24, Grade C
18	G10551	1	Clevis Pin, ¼" x 2½"
	G10669	1	Hair Pin Clip, No. 22
19	G11015	2	Hex Washer Head Cap Screw, ⅜"-16 x 1¼"
20	GB0274	1	Cover, Depth Adjustment
21	GB0266	1	Handle, Depth Adjustment
	GD3612	-	Cap Plug
22	GD10993	1	Spring
23	GB0267	1	Lever, Depth Adjustment
24	GD11259	1	Sleeve, ⅜" I.D. x ⅝" O.D. x 1²⁵⁄₃₂" Long
25	G10207	1	Washer, ⅞" O.D. x ¹³⁄₃₂" I.D. x .134" (If Applicable)
26	GD13361	1	Pin, ⅜" x 1⅔"
27	GB0285	1	Collar, Depth Adjustment
28	GD29798	1	Chain Guard, Pull Units
29	G10071	1	Serrated Flange Nut, ½"-13
30	G10014	1	Hex Head Cap Screw, ½"-13 x 1"
31	GD17014	1	Hose Guide, Push Units
32	G10047	1	Hex Head Cap Screw, ⅜"-16 x 1¾"
	G11387	2-3	Flat Washer, ⅜" SAE
	G10108	1	Lock Nut, ⅜"-16
33	GD29806	-	Seed Tube Bracket

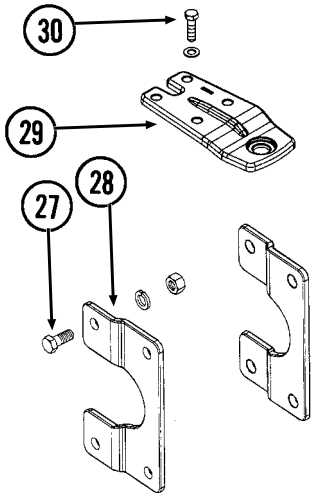
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Pull Row Unit Shown

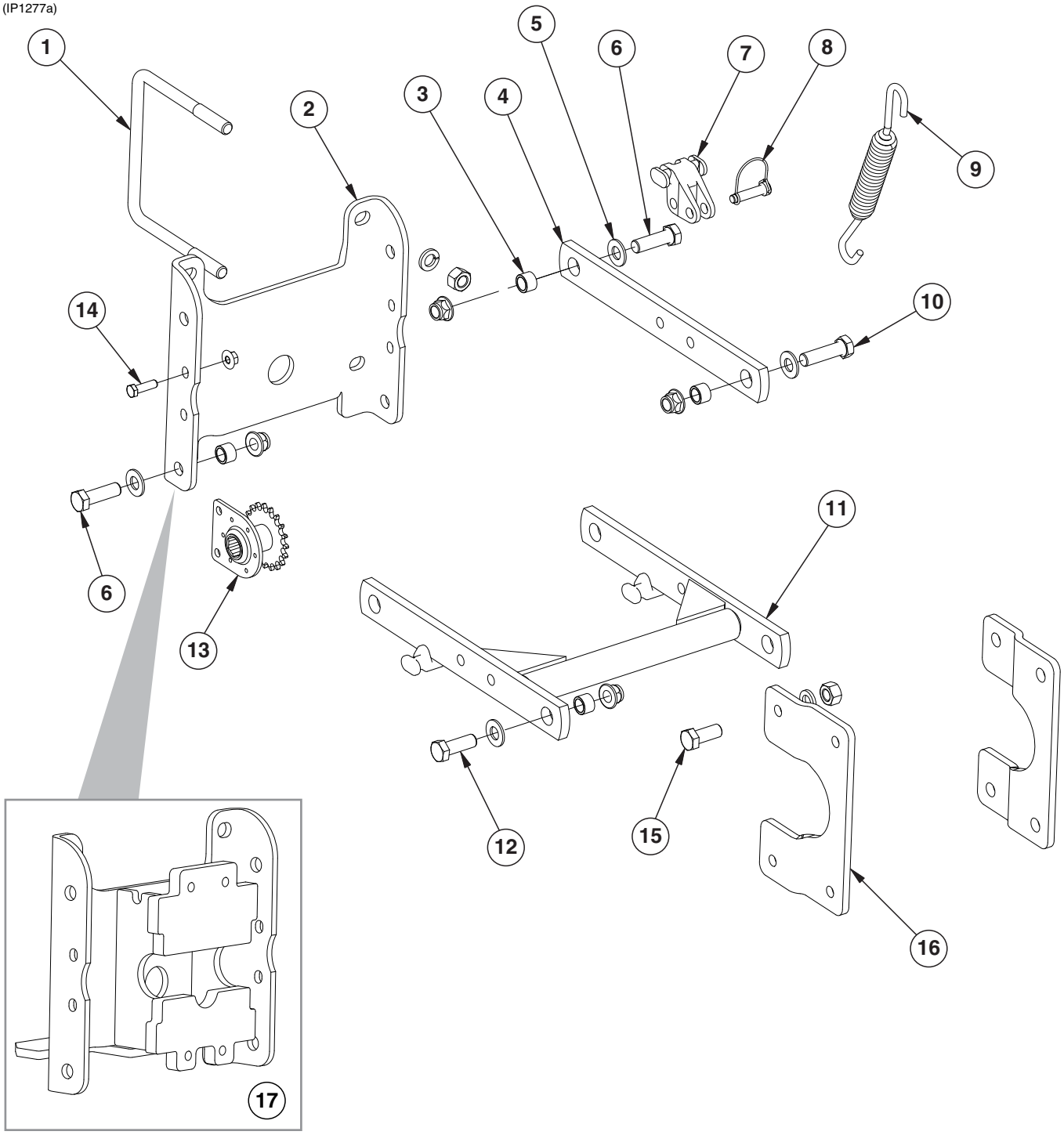


Push Row Unit Shown



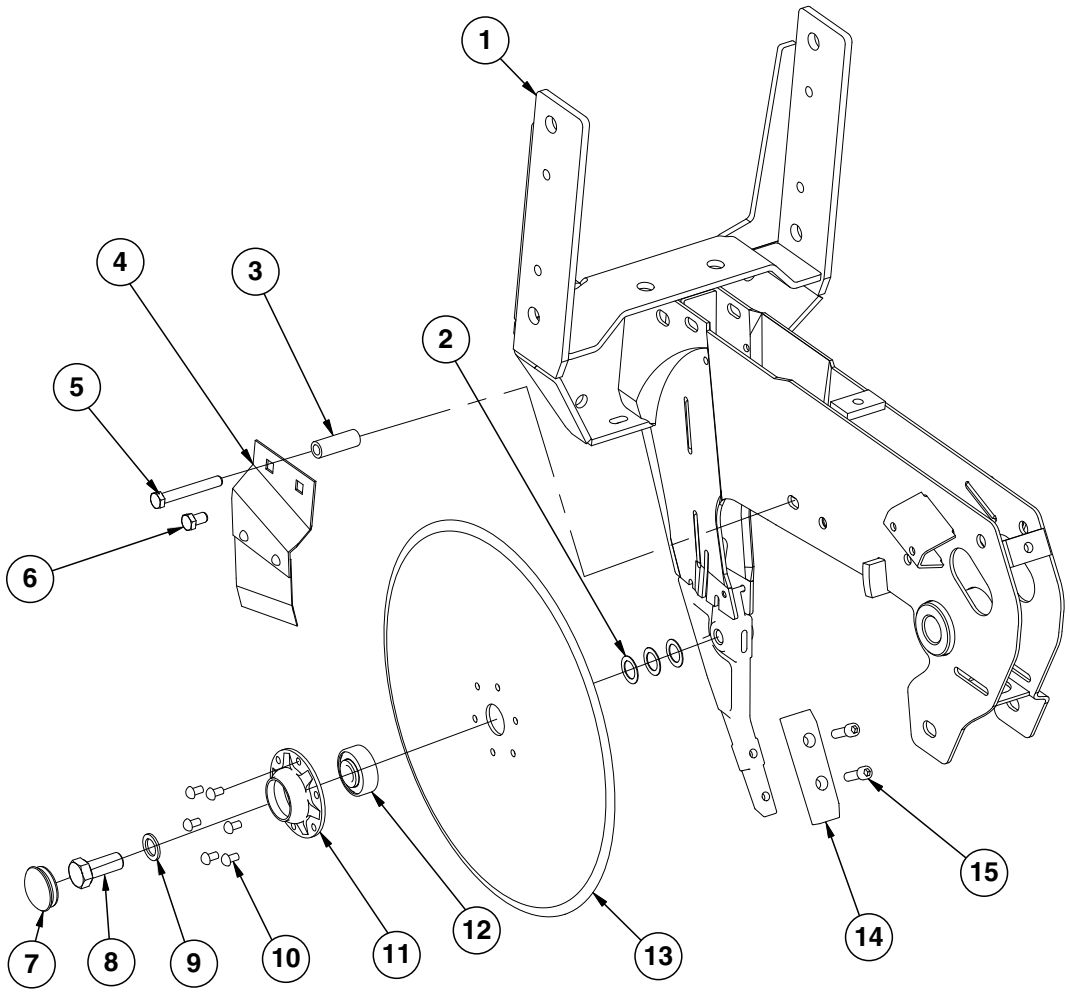


ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
2	GD10036	1	Mounting Support Plate
3	GB0218	4	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
4	GD11422	2	Upper Parallel Arm
5	G10732	4	Hex Head Cap Screw, 5/8"-18 x 2"
	G11391	4	Flat Washer, 5/8" SAE
	G11514	4	Lock Nut, 5/8"-18
6	GA5651	1	Lower Parallel Arm
7	GA1720	1	Bearing/Sprocket, 7/8" Hex Bore
8	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G11091	2	Serrated Flange Nut
9	---	-	See “Hopper Support and Meter Drive” on page P17
10	GA11982	1	Air Spring Assembly
11	GD23995	1	Saddle
12	G11018	2	Hex Head Cap Screw, 5/8"-18 x 1 1/4"
	G11391	2	Flat Washer, 5/8" SAE
	GD3180-30	2	Sleeve, 7/8" O.D. x 5/8" I.D. x 21/32"
13	GB0396	1	Head Mount
14	GB0397	1	Shoulder Nut, 3/4"-16
15	GB0395	2	Bracket
16	G11220	4	Hex Socket Cap Screw, 1/2"-13 x 1 1/2"
	G10071	4	Serrated Flange Nut, 1/2"-13
17	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G11387	2	Flat Washer, 3/8" SAE
	GD11963-04	2	Spacer, 1/4"
	G10108	2	Lock Nut, 3/8"-16
18	GD17794	1	Link (not applicable with row unit extension brackets)
19	GB0393	1	Plate
20	G10037	7	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
	G11389	2	Flat Washer, 1/2" SAE (Lower Two Holes Only)
	G10228	7	Lock Washer, 1/2"
21	---	-	See “Interplant Push Row Unit” on page P43
22	GB0390	1	Yoke Mount
23	GB0392	1	Yoke
24	GB0391	1	Mount
25	G10017	2	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G11389	2	Flat Washer, 1/2" SAE
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
26	GB0389	1	Plate
27	G10007	4	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
28	GB0366	2	Extension Bracket
29	GB0398	1	Extension
30	G10039	4	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
	G11389	4	Flat Washer, 1/2" SAE
	G10111	4	Lock Nut, 1/2"-13
31	G10037	1	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
	G10228	1	Lock Washer, 1/2"
A	G6325X	-	U-Bolt Package For 5" x 7" Toolbar, Includes: (2) GD1113, (4) G10230, (4) G10104


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ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1113 G10230 G10104	2 4 4	U-Bolt, 5" x 7" x 5/8"-11 Lock Washer, 5/8" Hex Nut, 5/8"-11
2	GD10036	1	Mounting Support Plate
3	GB0218	8	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
4	GD11422	2	Upper Parallel Arm
5	G11391	8	Flat Washer, 5/8" SAE
6	G10732 G11514	4 4	Hex Head Cap Screw, 5/8"-18 x 2" Non-Serrated Flange Lock Nut, 5/8"-18
7	GB0186	2	Spring Anchor
8	GD14217	2	Tab Lock Pin, 7/16" x 1½"
9	GD8249 GD21337	4 -	Standard Down Pressure Spring Heavy Duty Down Pressure Spring
10	G10752 G11514	2 2	Hex Head Cap Screw, 5/8"-18 x 2¼" Non-Serrated Flange Lock Nut, 5/8"-18
11	GA5651	1	Lower Parallel Arm
12	G10751 G11514	2 2	Hex Head Cap Screw, 5/8"-18 x 1¾" Non-Serrated Flange Lock Nut, 5/8"-18
13	GA1720	1	Bearing/Sprocket, 7/8" Hex Bore
14	G10004 G11091	2 2	Hex Head Cap Screw, 3/8"-16 x 1¼" Serrated Flange Nut, 3/8"-16
15	G10007 G10230 G10104	4 4 4	Hex Head Cap Screw, 5/8"-11 x 1½" Lock Washer, 5/8" Hex Nut, 5/8"-11
16	GB0366	2	Extension Bracket
17	GA18724	-	Row Unit Mount (Optional on 4 Center Row Units When Using Frame Mounted Coulters with Residue Wheels Along with GB0366 Extension Bracket)
A	G6325X	-	U-Bolt Package For 5" x 7" Toolbar, Includes: (2) GD1113, (4) G10230, (4) G10104

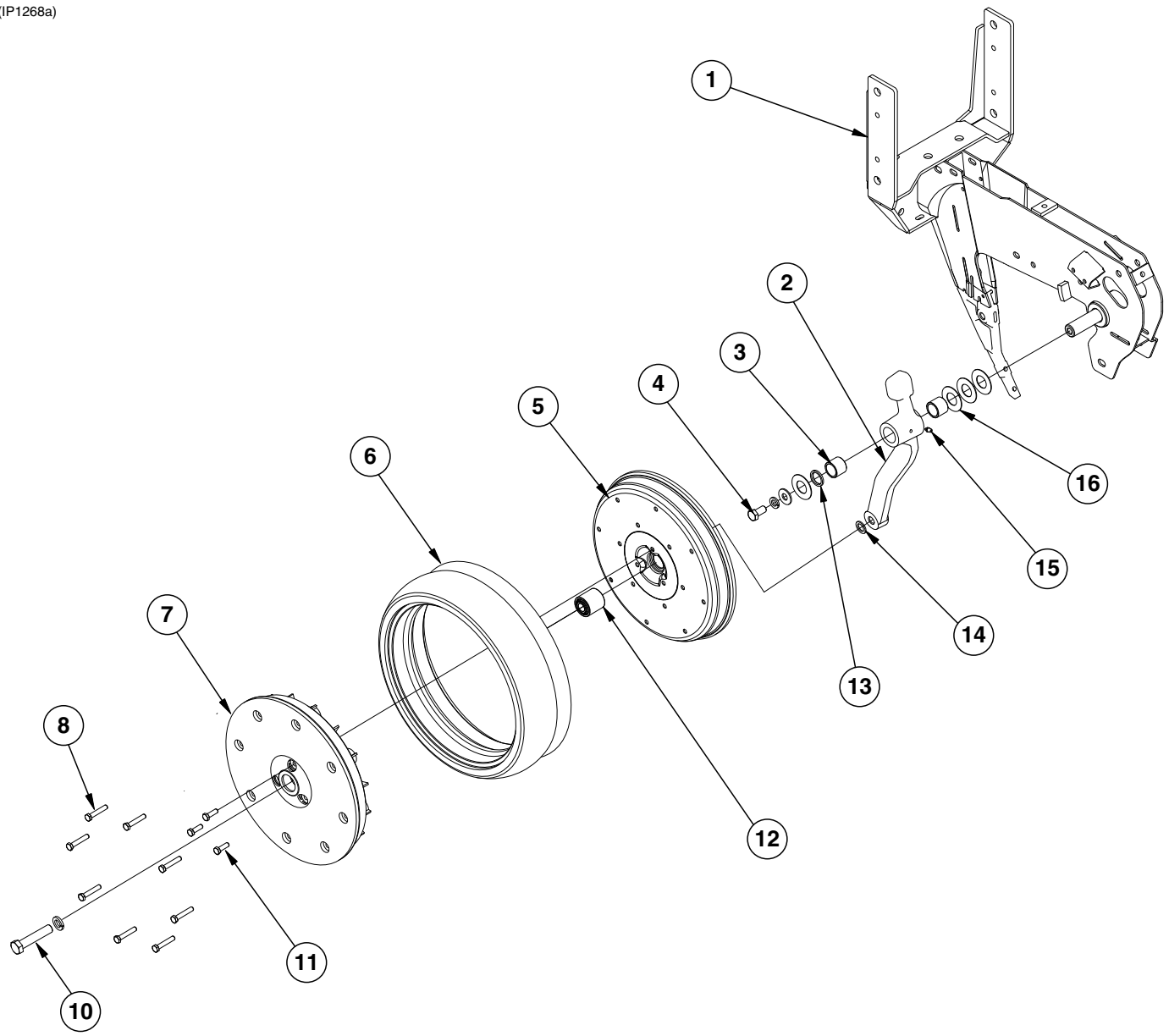
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ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	---	-	See “Shank Assembly, Seed Tube, and Depth Adjustment” on page P1
2	GD30725	-	Machine Bushing, ⅝" (.030" Thick) (As Required)
3	GD2971-26	1	Sleeve, ⅜" I.D x ⅝" O.D. x 1.63" Long
4	GA2012R GA2012L	1 -	Disc Scraper, R.H. Disc Scraper, L.H. (Shown)
5	G10325 G10622	1 1	Hex Head Cap Screw, ⅜"-16 x 2¾" Serrated Flange Nut, ⅜"-16
6	G10328 G10622	2 1	Hex Head Cap Screw, ⅜"-16 x ⅝" Serrated Flange Nut, ⅜"-16
7	GD11845	2	Dust Cap
8	GD11017	1	Special Hex Head Cap Screw, ⅝"-11 x 1½", L.H. Threads
9	G10204	2	Special Machine Bushing, ⅝" x 1" O.D.
10	G10427	12	Rivet, ¼" x ½"
11	GD10473	2	Bearing Housing
12	GA2014	2	Bearing
13	GD11306	2	Disc Blade, 3.5 mm x 15"
14	GB0301	1	Seed Tube Guard/Inner Scraper
15	G10912	2	Hex Socket Head Cap Screw, 5⁄16"-18 x 1", Grade 8
A	GA8324	-	Disc Blade/Bearing Assembly, Less Dust Cap (Items 10-13)

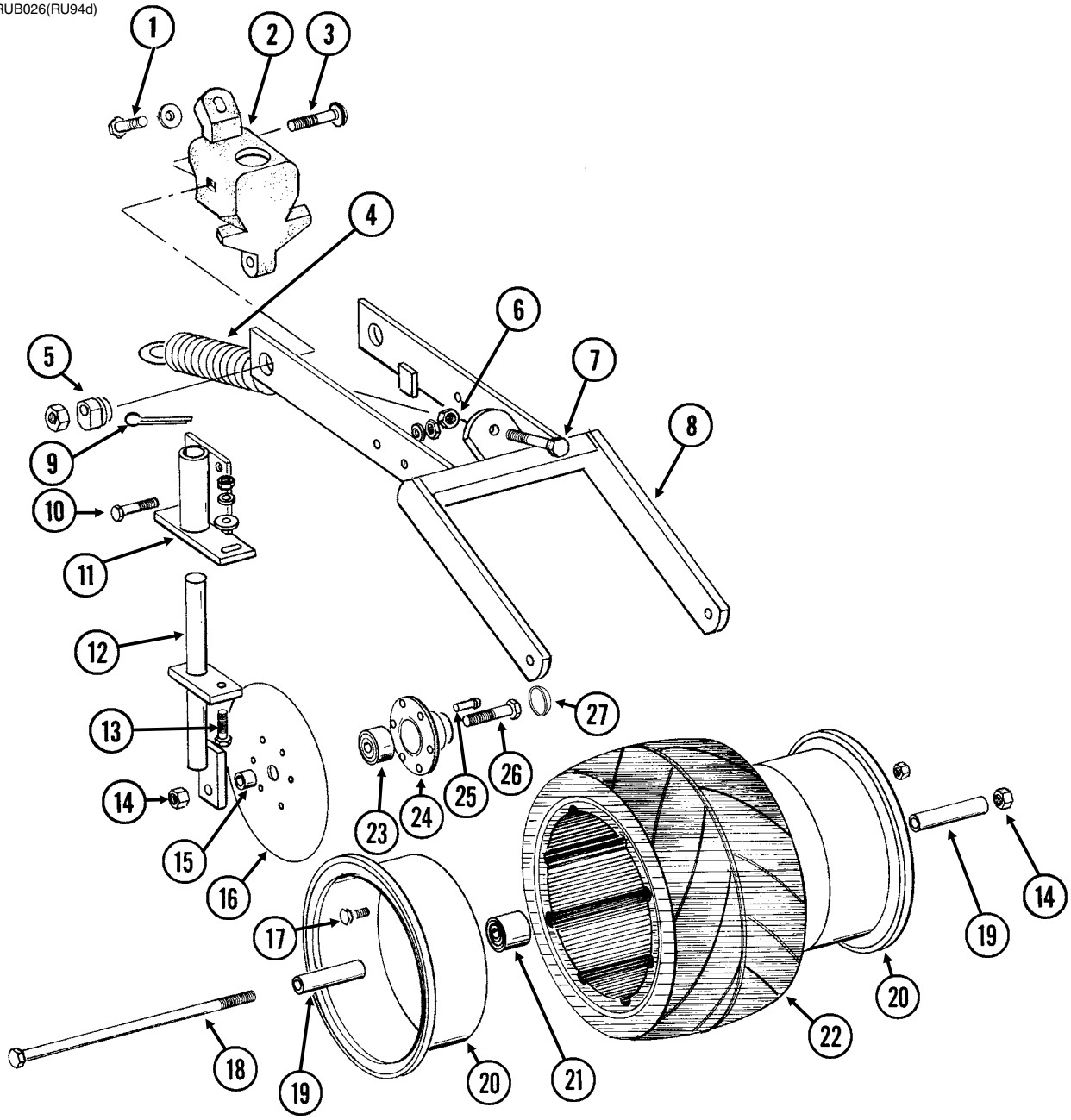
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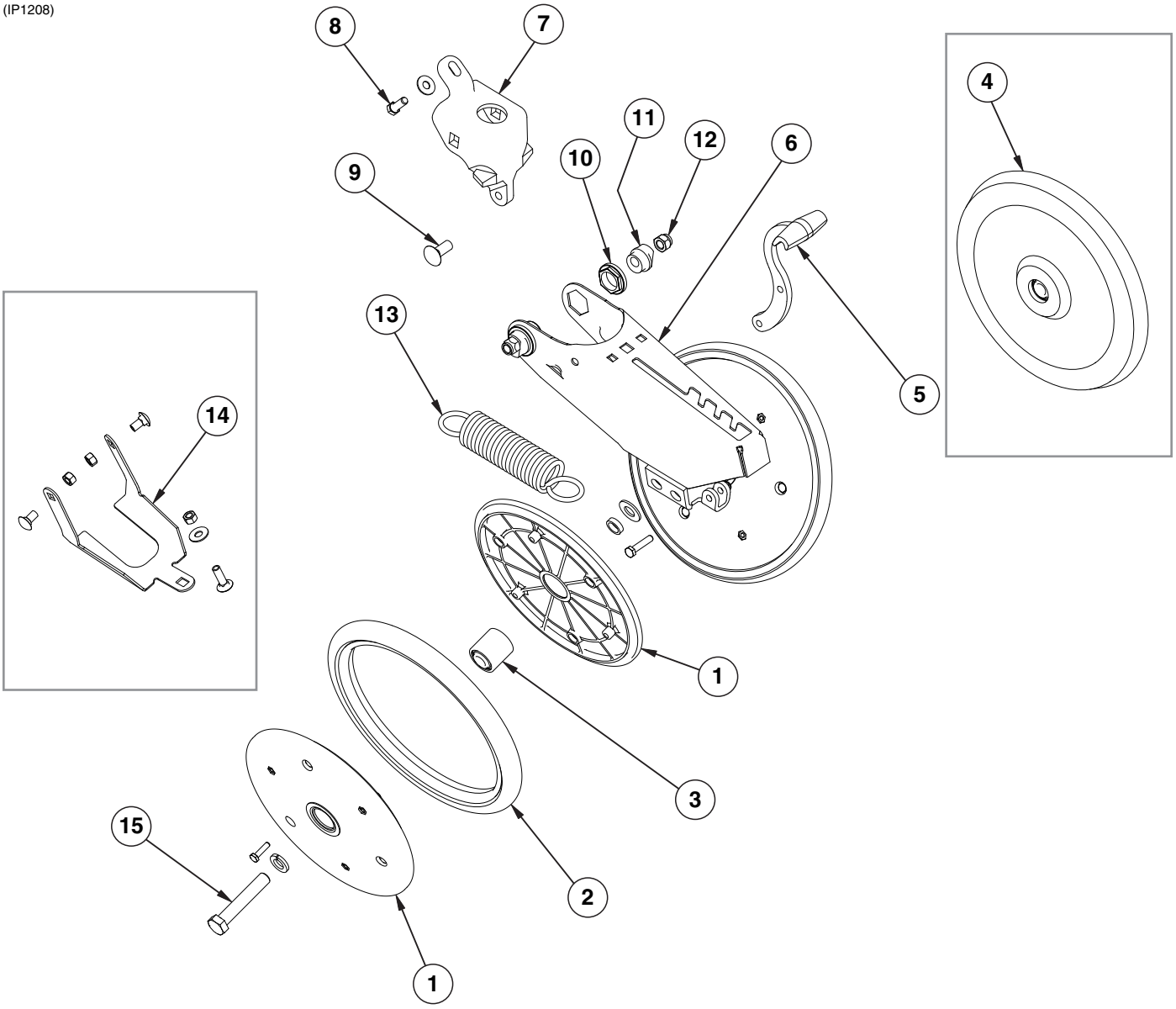
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	---	-	See “Shank Assembly, Seed Tube, and Depth Adjustment” on page P1
2	GA7975 GA7976	1 1	Wheel Arm W/Grease Fitting, Bushings And Seals, L.H. (Shown) (Includes Items 3 and 13) Wheel Arm W/Grease Fitting, Bushings And Seals, R.H. (Includes Items 3 and 13)
3	GB0276	2	Bushing, 1" I.D. x 1¼" O.D. x 1" Long (Per Arm)
4	G10014 G10228 G10216	1 2 2	Hex Head Cap Screw, ½"-13 x 1" Lock Washer, ½" Washer, ½" USS
5	GD31466	4	Half Wheel, Black
6	GD1086	2	Tire
7	GD34206	2	Half Wheel, Black
8	G10031 G10109	8 8	Hex Head Cap Screw, 5⁄16"-18 x 1¾" Lock Nut, 5⁄16"-18, Grade 8
9	G10338 G10620	12 12	Carriage Bolt, 5⁄16"-18 x 1¼" Serrated Flange Nut, 5⁄16"-18
10	G10010	2	Hex Head Cap Screw, ⅝"-11 x 3"
11	G10019 G10109	14 14	Hex Head Cap Screw, 5⁄16"-18 x 1" Lock Nut, 5⁄16"-18, Grade 8
12	GA6171	2	Bearing
13	GD10991	2	Seal (Per Arm)
14	G10204	2	Special Machine Bushing, ⅝" x 1" O.D.
15	G10640	1	Grease Fitting, ¼"-28 (Per Arm)
16	G10940	-	Machine Bushing, 1" (.048" Thick)
A	GA24576	-	Gauge Wheel Complete (Items 5-9 And 11-12)
B	G1K296	-	Gauge Wheel Arm Bushing And Seal Driver Kit, Includes: (1) Seal Driver, (1) Bushing Driver, (1) Instruction

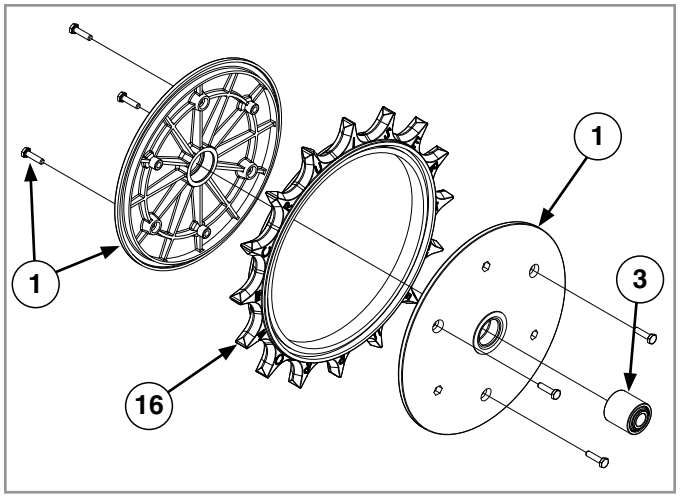
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ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10001	1	Hex Head Cap Screw, ⅜"-16 x 1"
	G11387	1	Flat Washer, ⅜" SAE
2	GB0268	1	Wheel Arm Stop
3	G11419	2	Carriage Bolt, ½"-13 x 2¼"
	G10315	-	Carriage Bolt, ½"-13 x 2½" (Used W/Straight Drop In-Furrow Granular Chemical Bracket)
	G10102	2	Hex Nut, ½"-13
4	GA2054	1	Spring
5	GB0239	2	Eccentric Bushing
6	G10102	1	Hex Nut, ½"-13
7	G10015	1	Adjusting Bolt, ½"-13 x 5"
8	GA6619	1	Mounting Arm
9	G10463	2	Cotter Pin, ¼" x 1½"
10	G10171	4	Hex Head Cap Screw, 5⁄16"-18 x 1¼"
	G10232	4	Lock Washer, 5⁄16"
	G10106	4	Hex Nut, 5⁄16"-18
11	GA6620	2	Bracket
12	GA6618	2	Mount
13	G10303	2	Carriage Bolt, 5⁄16"-18 x 1"
	G11386	2	Flat Washer, 5⁄16" SAE
	G10232	2	Lock Washer, 5⁄16"
	G10106	2	Hex Nut, 5⁄16"-18
14	G10107	3	Lock Nut, ⅝"-11
15	GD1109	2	Bushing, 41⁄64" I.D. x ⅞" O.D. x ¼" Long
16	GD9290	2	Disc Blade, 8"
17	G10018	7	Hex Head Cap Screw, 5⁄16"-18 x ⅝"
	G10109	7	Lock Nut, 5⁄16"-18, Grade 8
18	G10152	1	Hex Head Cap Screw, ⅝"-11 x 9"
19	GD3180-12	2	Sleeve, ⅝" I.D. x ⅞" O.D. x 2⅞" Long
20	GD9562	2	Half Wheel
21	GA6171	1	Bearing
22	GD9305	1	Tire
23	GA2014	2	Bearing
24	GD10473	2	Bearing Housing
25	G10427	12	Rivet, ¼" x ½"
26	G10006	2	Hex Head Cap Screw, ⅝"-11 x 2¼"
27	GD11845	2	Dust Cap
A	GA6733	-	Single Press Wheel Complete W/Bearing (Items 17 And 20-22)
B	GA6801	-	Covering Disc Blade Complete W/Bearing (Items 16 And 23-25)

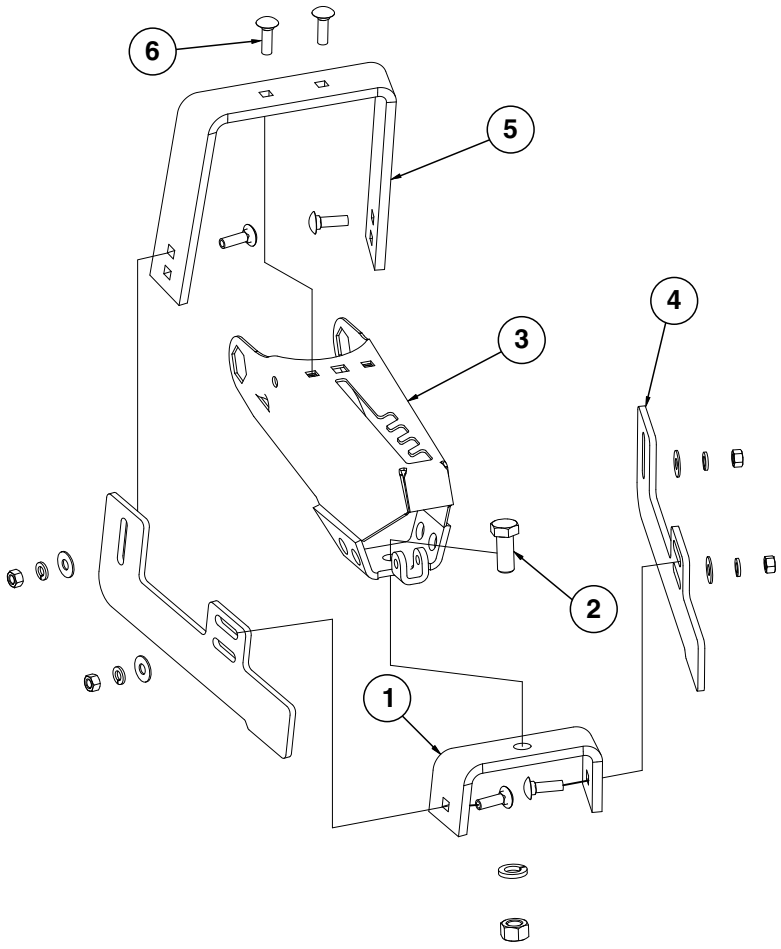
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ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD9120	4	Nylon Half Wheel
	G10064	12	Hex Head Cap Screw, ¼"-20 x 1"
2	GD1085	2	Rubber Tire, 1" x 12"
3	GA6171	2	Bearing
4	GA6597	1	Cast Iron Closing Wheel W/Bearing
	GA6171	1	Bearing (Included W/GA6597)
5	GB0254	1	Lever
	G10133	1	Hex Head Cap Screw, 5/16"-18 x 1½"
	G10109	1	Lock Nut, 5/16"-18, Grade 8
6	GA15197	1	Arm
7	GB0268	1	Wheel Arm Mount
8	G10001	1	Hex Head Cap Screw, ⅜"-16 x 1"
	G11387	2	Flat Washer, ⅜" SAE
9	G11419	2	Carriage Bolt, ½"-13 x 2¼"
	G10315	-	Carriage Bolt, ½"-13 x 2½" (Used W/Straight Drop In-Furrow Granular Chemical Bracket)
	G11387	-	Flat Washer, ⅜" SAE
10	GB0282	2	Stepped Bushing
11	GB0239	2	Eccentric Bushing
12	G10111	2	Lock Nut, ½"-13
13	GD8460	1	Spring
14	G1K345	-	Closing Wheel Shield Kit W/Hardware and Instruction
	GD26146	1	Closing Wheel Shield (Included W/G1K345)
	G10599	1	Carriage Bolt, ⅜"-16 x 1¼" (Included W/G1K345)
	G10308	2	Carriage Bolt, ⅜"-16 x ¾" (Included W/G1K345)
	G10101	3	Hex Nut, ⅜"-16 (Included W/G1K345)
	G10229	3	Lock Washer, ⅜" (Included W/G1K345)
	G11387	1	Hardened Washer, ⅜" SAE (Included W/G1K345)
15	G10013	2	Hex Head Cap Screw, ⅝"-11 x 3½"
	G11391	2	Flat Washer, ⅝" SAE
	GD1109	2	Bushing, 41/64" I.D. x ⅞" O.D. x ¼" Long
	G10230	2	Lock Washer, ⅝"
	G10107	2	Lock Nut, ⅝"-11
16	GD31353MPP	2	Spiked Wheel Insert (Package of 2)
A	GA6434	-	Rubber Closing Wheel Complete W/Bearing (Items 1-3)
B	GA22165	-	Spiked Closing Wheel Complete W/Bearing (Items 1, 3, and 16)

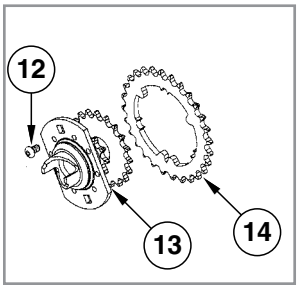
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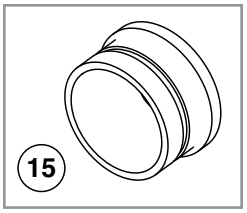


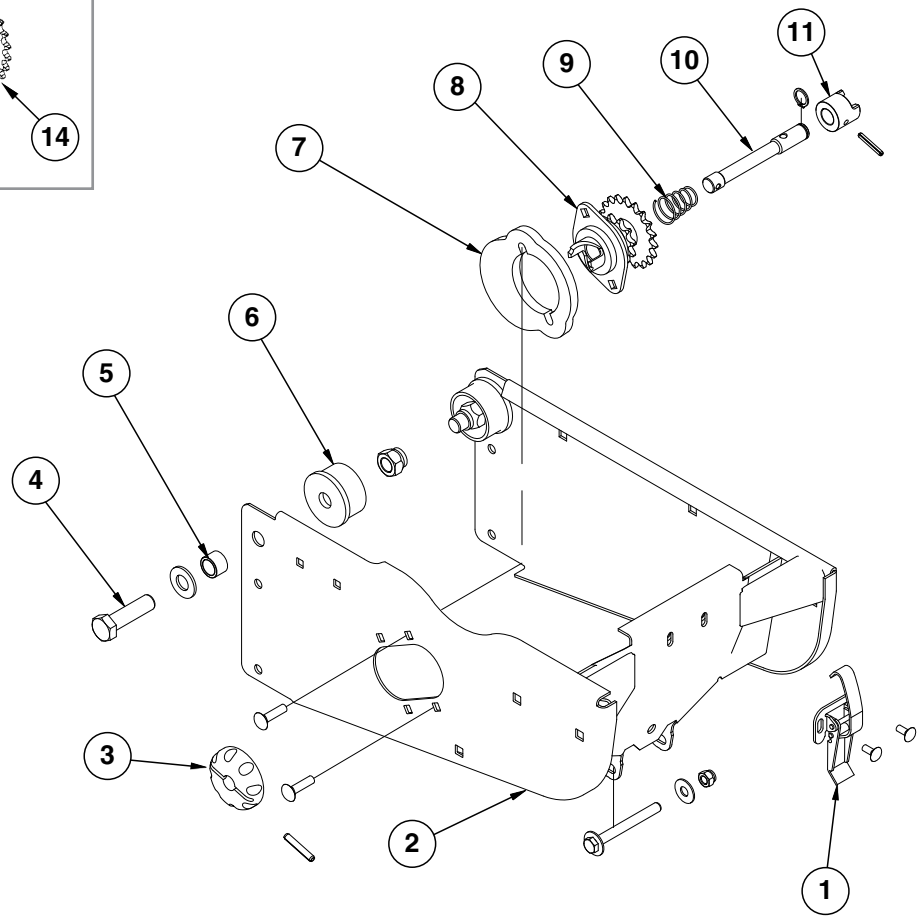
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD11509	1	Rear Bracket
2	G10007	1	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	1	Lock Washer, ⅝"
	G10104	1	Hex Nut, ⅝"-11
3	GA15197	1	Arm
4	GD11313	2	Blade
5	GD11508	1	Front Bracket
6	G10599	6	Carriage Bolt, ⅜"-16 x 1¼"
	G10229	6	Lock Washer, ⅜"
	G11387	6	Flat Washer, ⅜" SAE
	G10101	6	Hex Nut, ⅜"-16
A	G7566X	-	Drag Closing Attachment Complete (Items 1-6)

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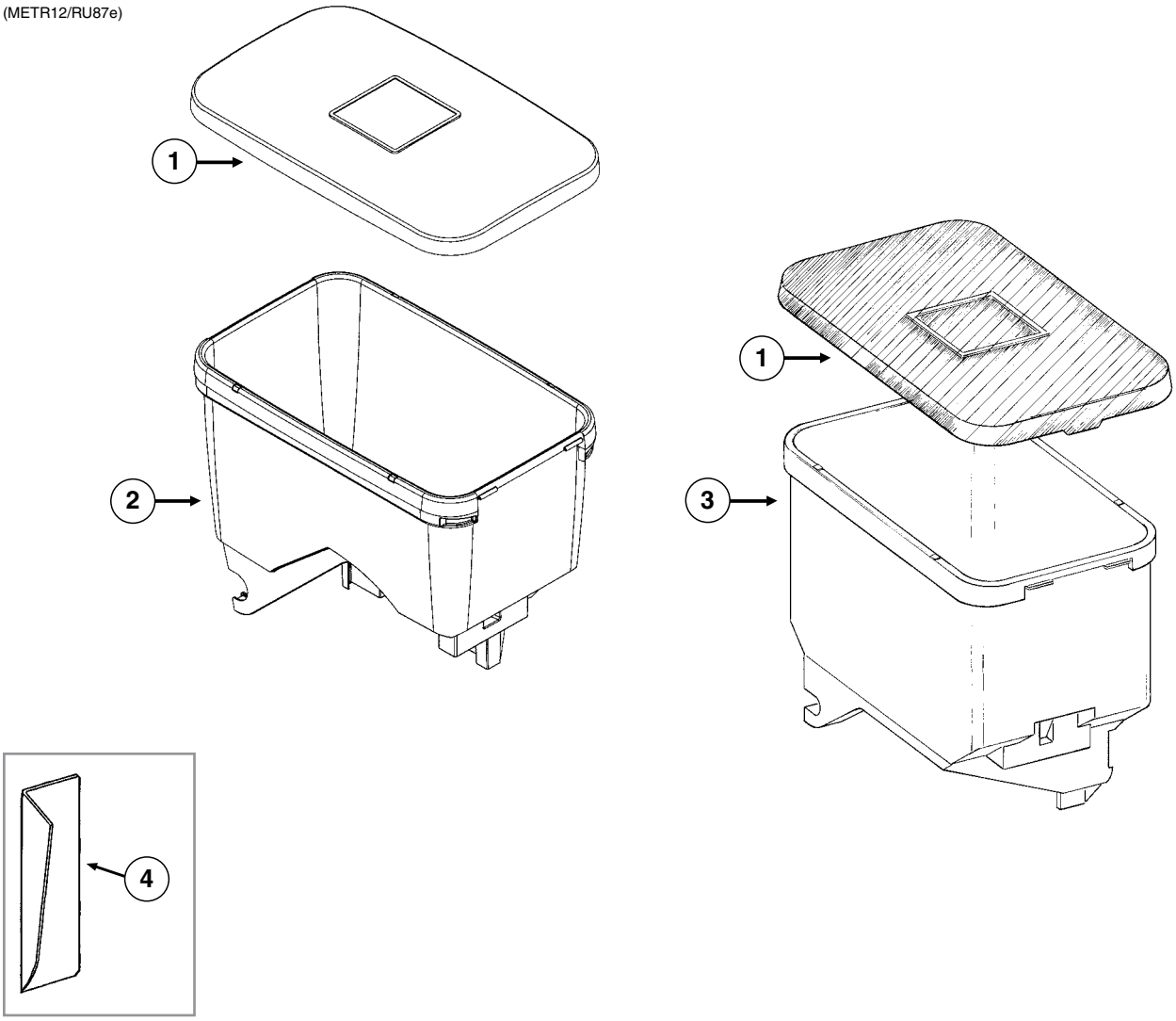






ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA2007	1	Hopper Hold Down Latch
	G10621	2	Serrated Flange Nut, ¼"-20
	G10309	2	Carriage Bolt, ¼"-20 x ⅝", Grade 2
2	GA10155	1	Hopper Support
	G10061	1	Hex Head Cap Screw, ⅜"-16 x 3½"
	G11387	2	Flat Washer, ⅜" SAE
	G10108	1	Lock Nut, ⅜"-16
3	GD11239	1	Knob
4	G10752	2	Hex Head Cap Screw, ⅝"-18 x 2¼"
	G11391	2	Flat Washer, ⅝" SAE
	G10412	2	Lock Nut, ⅝"-18
5	GB0218	2	Bushing, 21/32" I.D. x ⅞" O.D. x 19/32" Long
6	GB0314	2	Hopper Mount
7	GB0331	1	Clutch Adapter Plate
	G10620	2	Serrated Flange Nut, 5/16"-18
	G10338	2	Carriage Bolt, 5/16"-18 x 1¼"
8	GA10137	1	Double Sprocket And Bearing, Drive Clutch, 11/19 Tooth (Mechanical)
	GA12143	1	Double Sprocket And Bearing, Drive Clutch, 11/28 Tooth (Vacuum)
9	GD11413	1	Spring
10	GD29507	1	Clutch Shaft
	G10567	1	External Retaining Ring, ⅝"
11	GB0278	1	Coupler
	G10602	1	Spring Pin, ¼" x 1½"
12	G11222	3	Hex Socket Button Head Cap Screw, 5/16"-18 x ½", Stainless Steel
	G10620	3	Serrated Flange Nut, 5/16"-18
13	GA10137	1	Double Sprocket And Bearing, Drive Clutch, 11/19 Tooth
14	GD17192	1	Bolt-On Sprocket, 28 Tooth
15	GD17052	-	Vacuum Plug
A	GA20640	-	Seed Meter Clutch Assembly, 11/28 Tooth (Items 3 And 8-11) (Vacuum Shown)
B	GA10151	-	Seed Meter Clutch Assembly, 11/19 Tooth (Items 3 And 8-11)

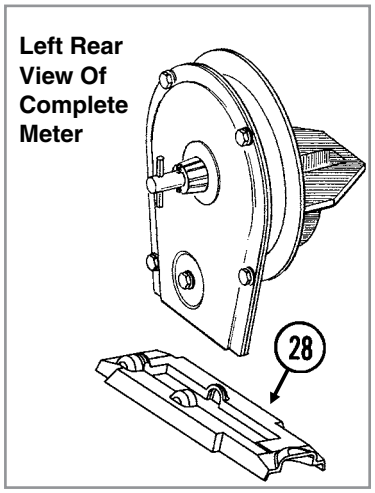
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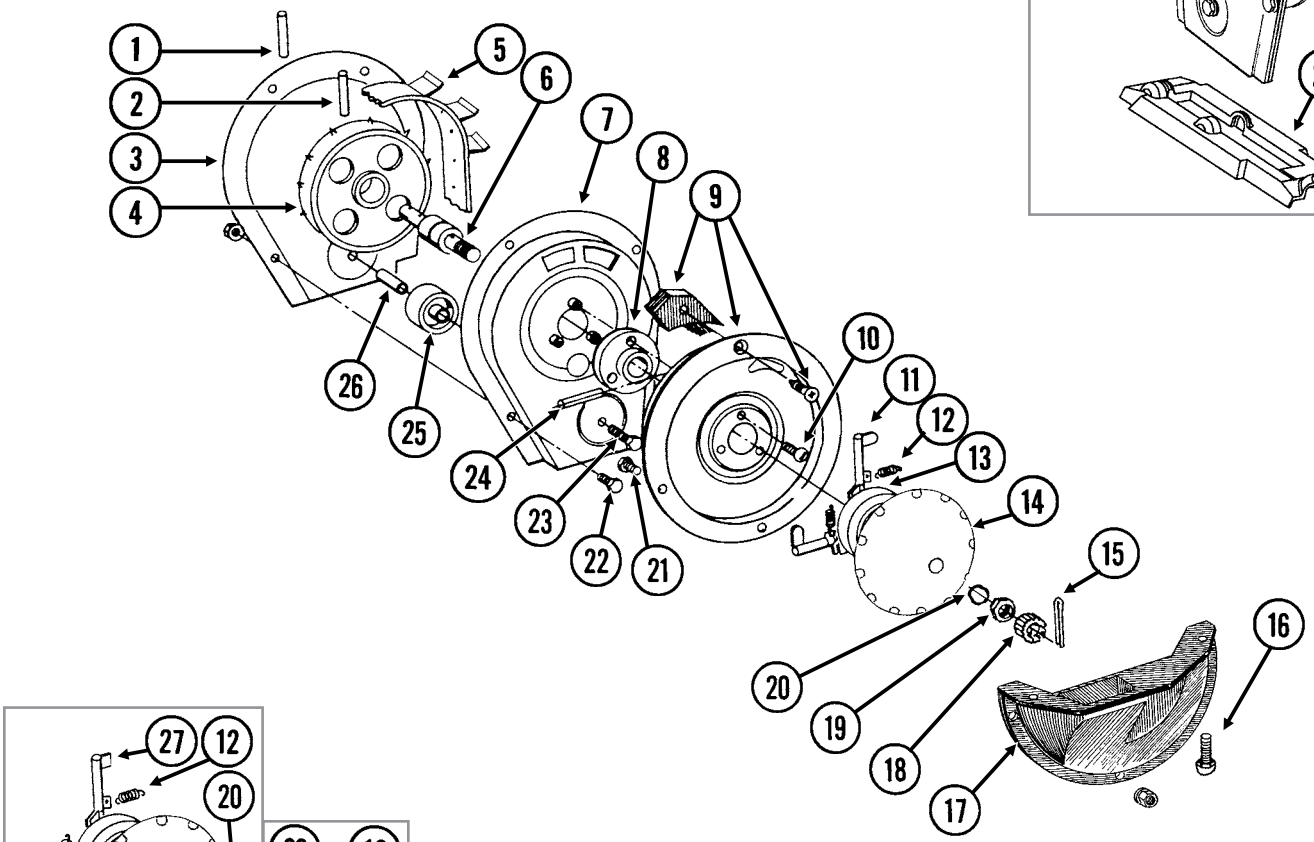


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD11279	1	Lid
2	GA20254	1	Seed Hopper (Vacuum)
	GD12561	-	Threaded Insert, 5/16"-18 (Included W/GA20254)
3	GA9714	1	Seed Hopper, Reinforced (Mechanical)
	GD12561	-	Threaded Insert, 5/16"-18 (Included W/GA9714)
4	GD11747	1	Seed Reserve Baffle

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RUA015/RUA056/RUA057(RU13k/RU13d)

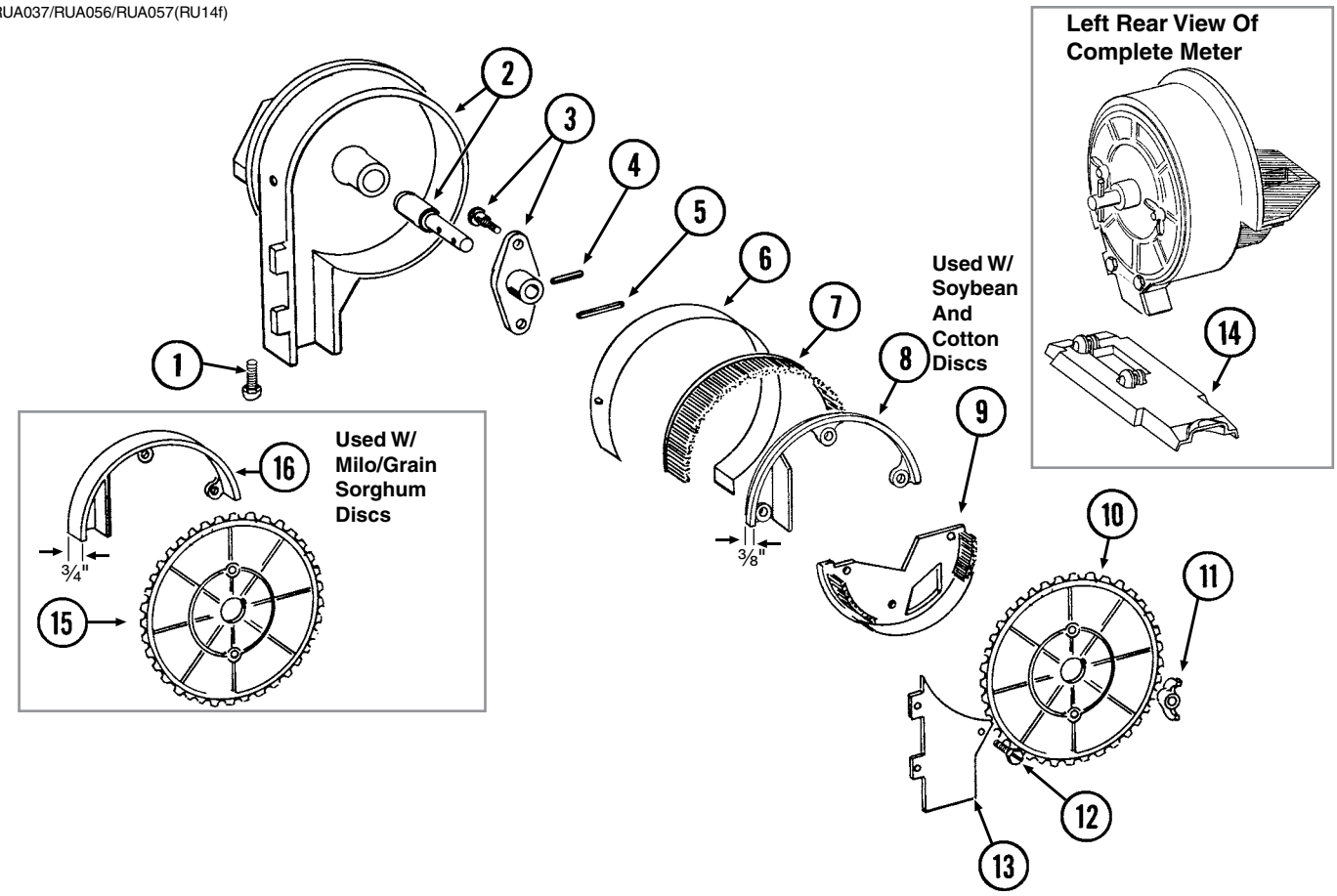




ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10602	1	Spring Pin, ¼" x 1½"
2	G10604	1	Spring Pin, 3⁄16" x 1½"
3	GD26419	1	Housing Cover
4	GD1041	1	Belt Drive Sprocket
5	GD11286	1	Seed Belt
6	GA2019	1	Bearing
7	GA18201	1	Conveyor Housing
8	GB0110	1	Bearing Housing
9	GR1569 GR0664 GA2020 G10690	- - - -	Carrier Plate W/Brush and Screw (Corn) Carrier Plate W/Brush and Screw (Sunflower) Brush Rolling Thread Screw, No. 10 x ¾"
10	G10401	3	Slotted Hex Washer Head Screw, No. 10-32 x ⅝"
11	GD18704	12	Finger, Corn
12	GD19790	12	Spring
13	GB0410	1	Cam
14	GD11528	1	Finger Holder
15	G10470	1	Cotter Pin, 5⁄32" x 1"
16	G11009	2	Locking Thumbscrew, 5⁄16"-18 x ¾"
17	GD11311	1	Seed Baffle
18	GD1083	1	Cover Nut
19	G10500	1	Jam Nut, ⅝"-18 UNF
20	GA8343	1	Wave Washer, ⅝" (Triple Wave)
21	G10020 G10323	3 3	Hex Head Cap Screw, ¼"-20 x ⅝" Hex Flange Nut, ¼"-20, No Serrations
22	G10022 G10621	4 4	Hex Head Cap Screw, ¼"-20 x ½" Serrated Flange Nut, ¼"-20
23	G10021 G10621	1 1	Hex Head Cap Screw, ¼"-20 x 1½" Serrated Flange Nut, ¼"-20
24	G10603	1	Spring Pin, ¼" x 1¼"
25	GD1042	1	Idler
26	GB0120	1	Bushing, 17⁄64" I.D. x 1 1⁄32" Long
27	GD19333	12	Finger, Oil Sunflower
28	GD15698	1	Shank Cover, Finger Pickup Seed Meter
29	GD11787	-	Half Rate Blank Finger

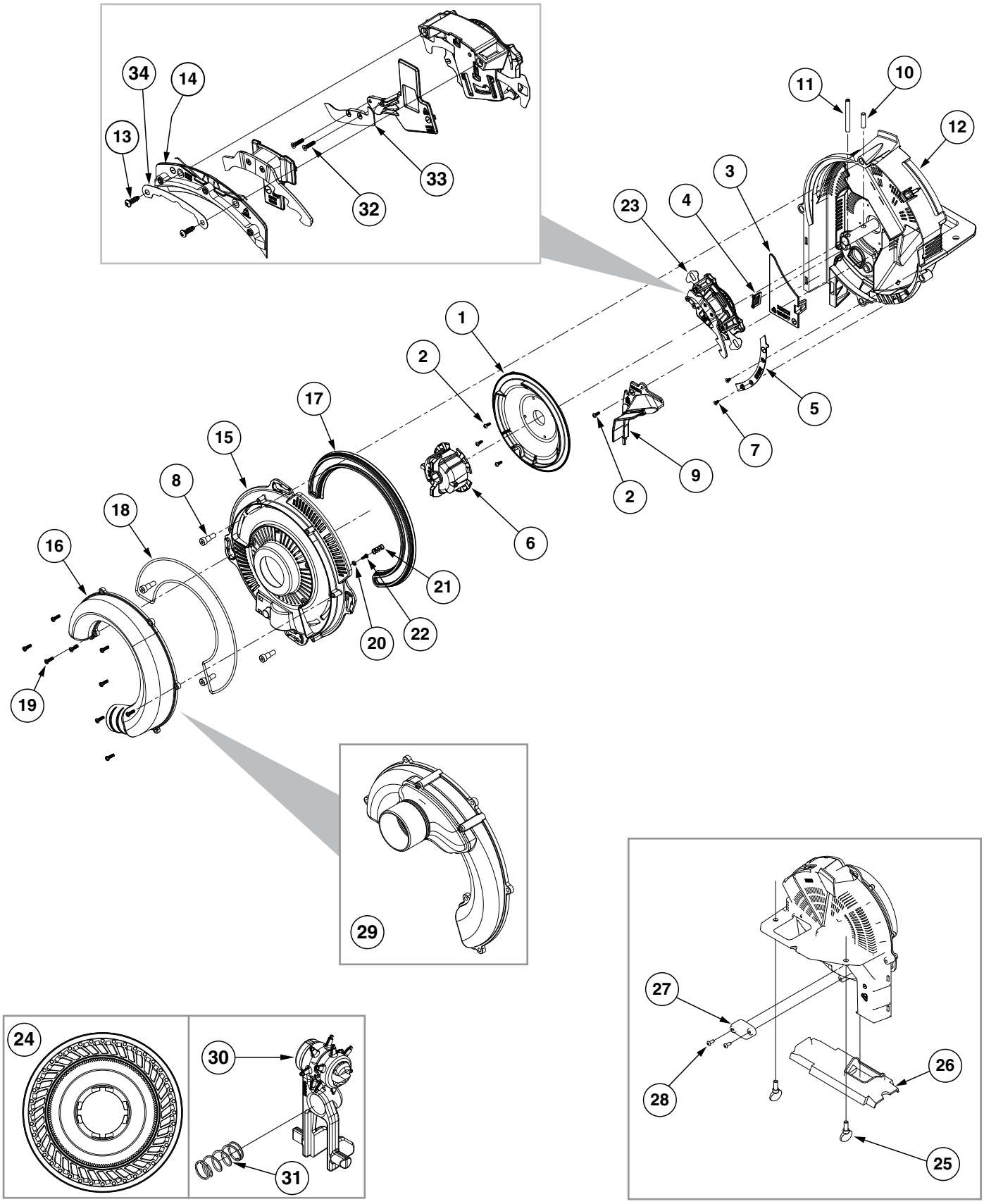
A	GR1848	-	Finger Assembly, Corn (Items 11-14 and 20)
B	GR2154	-	Finger Assembly, Oil Sunflower (Items 12, 14, 20, 27, and 30)
C	700-01078	-	Corn Meter Assembly (Items 1-26 and 28)

RUA037/RUA056/RUA057(RU14f)



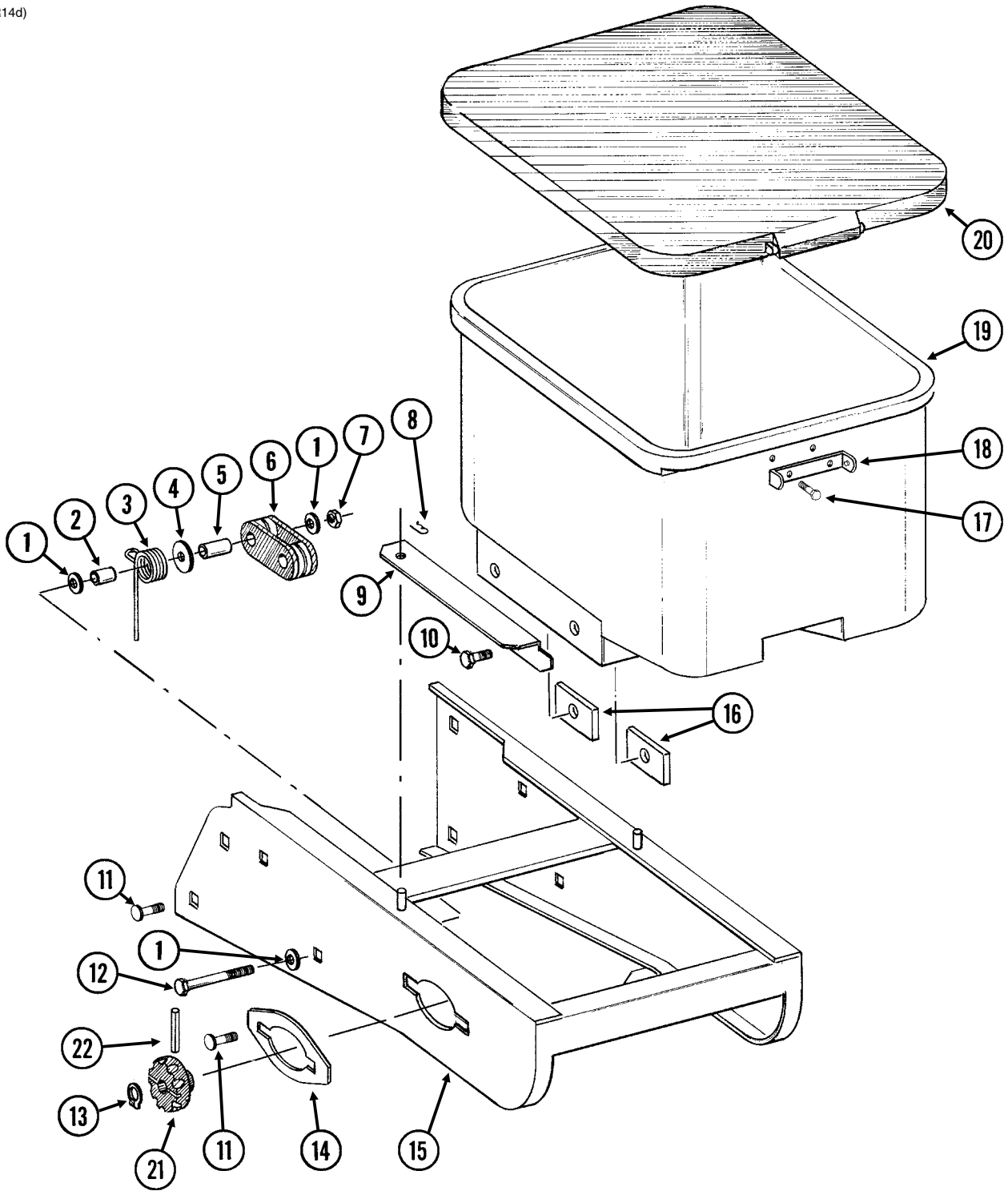
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11009	2	Locking Thumbscrew, 5⁄16"-18 x ¾"
2	GA18208	1	Housing W/Bearing
	GA5698	-	Bearing (Included W/GA18208)
3	GA6038	1	Hub W/Shoulder Bolts
	GD1755	-	Shoulder Bolt, ¼"-20 (2 Used) (Included W/GA6038)
4	G10603	1	Spring Pin, ¼" x 1¼"
5	G10602	1	Spring Pin, ¼" x 1½"
6	GD8778	1	Wear Strip
7	GA5699	1	Upper Brush
8	GD11122	1	Upper Brush Retainer (Used W/Soybean and Cotton Discs)
9	GA5834	1	Lower Brush
10	GA5794	-	Seed Disc, Soybean, 60 Cell, Black Color-Coded
	GA6184	-	Seed Disc, Specialty Soybean, 48 Cell, Dark Blue Color-Coded
	GA5796	-	Seed Disc, Cotton, Acid-Delinted, 30 Cell, White Color-Coded
	GA6168	-	Seed Disc, Large Cotton, Acid-Delinted, 36 Cell, Tan Color-Coded
	GA6478	-	Seed Disc, High-Rate Cotton, Acid-Delinted, 48 Cell, Light Green Color-Coded
	GA6182	-	Seed Disc, Hill-Drop Cotton, Acid-Delinted, 12 Cell, Brown Color-Coded
	GA7255	-	Seed Disc, Small Hill-Drop Cotton, Acid-Delinted, 12 Cell, Dark Green Color-Coded
11	G10531	2	Wing Nut W/Nylon Insert, ¼"-20
12	G11151	9	Hex Washer Head Screw, No. 10-16 x ½"
	G10634	-	Slotted Tap Screw, No. 10-24 x ⅝" (Use As Required)
13	GD7878	1	Cover
14	GD15699	1	Shank Cover, Brush-Type Seed Meter
15	GA5982	-	Seed Disc, Small Milo/Grain Sorghum, 30 Cell, Red Color-Coded
	GA6187	-	Seed Disc, Large Milo/Grain Sorghum, 30 Cell, Light Blue Color-Coded
	GA5795	-	Seed Disc, High-Rate Small Milo/Grain Sorghum, 60 Cell, Red Color-Coded
	GA6633	-	Seed Disc, High-Rate Large Milo/Grain Sorghum, 60 Cell, Yellow Color-Coded
16	GD8237	-	Upper Brush Retainer (Used W/Milo/Grain Sorghum Discs)
A	700-01079	-	Brush Meter (Items 1-9 and 11-14)

(IP1507)


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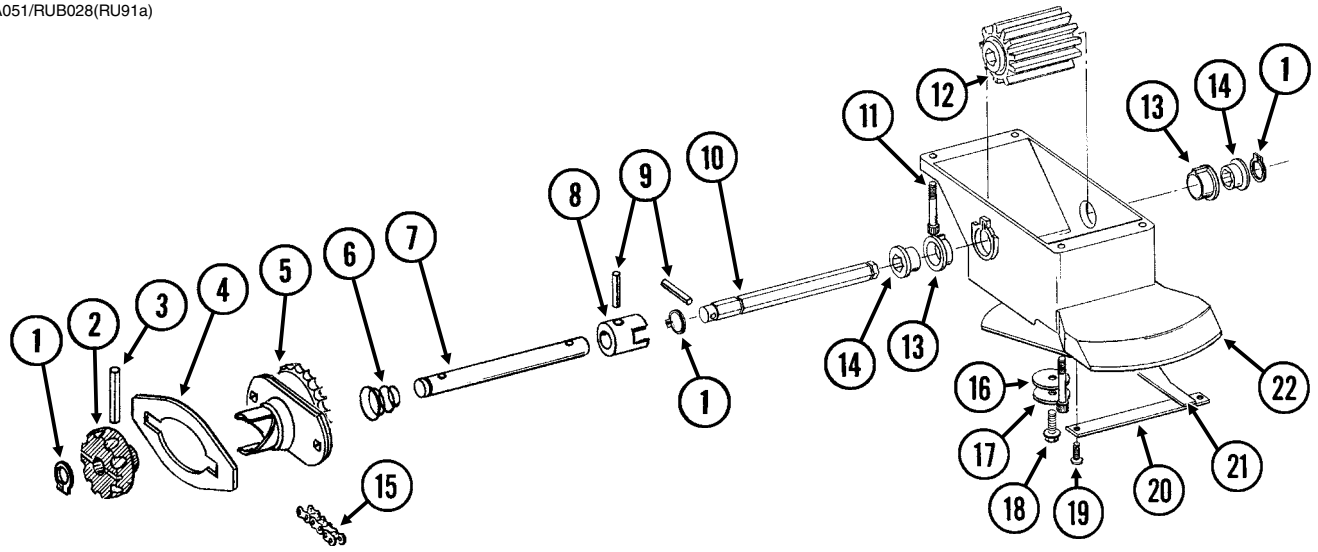
ITEM	PART NO.	QTY.	DESCRIPTION
1	GB0815	1	Shield
2	G11619	4	Phillips Pan Head Tapping Screw, No. 6-19 x ⅜"
3	GB0697	1	Chute Cover
4	GB0780	1	Brush
5	GB0823	1	Baffle
6	GB0816	1	Disc Hub
7	G11618	2	Torx Flat Head Tapping Screw, No. 6-19 x ¼"
8	G11172	4	Hex Socket Head Shoulder Screw, ¼"-20 x ⅜", Stainless Steel
9	GA20746	1	Brush Assembly
10	G11448	1	Pin, ¼" x 1"
11	G10475	1	Spring Pin, ¼" x 2¼"
12	GA22213	1	Meter Housing W/Bearing
13	G11578	2	Phillips Pan Head Tapping Screw, No. 8-18 x ½"
14	GA20110	1	Singulator Guide Sub Assembly
15	GB0920	1	Cover
16	GB0818	1	Vacuum Port, Pull Row Unit
17	GB0676	1	Lip Seal
18	GD26593	1	Gasket Housing
19	G11556	9	Phillips Pan Head Tapping Screw, 6-19 x ½"
20	GB0907	1	Retainer Spring
21	GD25147	1	Compression Spring
22	G11619	1	Phillips Pan Head Tapping Screw, No. 6-19 x ⅜"
23	GA20878	1	Singulator Assembly (Includes Items 13 and 14)
24	G9040X	1	Seed Disc, Corn, 40 Cell, Light Blue Color-Coded, Ejector Wheel, and Spring
	G9041X	-	Seed Disc, Soybean, 120 Cell, Black Color-Coded, Ejector Wheel, and Spring
	G9043X	-	Seed Disc, Sugar Beets/Milo, Dark Orange Color-Coded, Ejector Wheel, and Spring
	G9042X	-	Seed Disc, Sunflower, 40 Cell, Gray Color-Coded, Ejector Wheel, and Spring
	G9272X	-	Seed Disc, Cotton, 60 Cell, Green Color-Coded, Ejector Wheel, and Spring
	G9273X	-	Seed Disc, Black Turtle and Navy Edible Bean and Popcorn, 60 Cell, Brown Color-Coded, Ejector Wheel, and Spring
	G9308X	-	Seed Disc, Pinto and Great Northern Edible Beans and Low-Rate Soybean, 60 Cell, Dark Blue Color Coded, Ejector Wheel, and Spring
25	G11009	2	Locking Thumbscrew, 5⁄16"-18 x ¾"
26	GB0926	1	Shank Cover
27	GD28631	1	Cover Plate
28	G11281	2	Hex Button Head Cap Screw, 10-24 x ½"
29	GA20111	1	Vacuum Port, Push Row Unit
30	GA19112	-	Ejector Arm, Corn
	GA19113	-	Ejector Arm, Soybean
	GA19114	-	Ejector Arm, Sunflower
	GA19115	-	Ejector Arm, Beets/Milo
	GA20346	-	Ejector Arm, Black Turtle, Navy, Pinto, and Great Northern Edible Bean, Popcorn, and Low-Rate Soybean
31	GD25147	-	Compression Spring
32	G11693	2	Torx Flat Head Machine Screw, No. 4-40 x ½"
33	GB0921	1	Lower Blade
34	GD29657	1	Retainer
A	G9277X	-	Vacuum Meter Assembly, Pull Row Unit (Excludes Items 24 and 29-31)
B	G9275X	-	Vacuum Meter Assembly, Push Row Unit (Excludes Items 16, 24, and 30-31)
C	GA20622	-	Cover Assembly (Items 15-22)

(METR14d)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11387	3	Flat Washer, ⅜" SAE
2	GD2971-10	1	Sleeve, 9⁄16" Long
3	GD11219	1	Spring
4	G10201	1	Special Washer, ⅜" x 1½" O.D.
5	GD1026	1	Sleeve, 1 3⁄16" Long
6	GD11962	1	Idler
7	G10108	1	Lock Nut, ⅜"-16
8	G10670	2	Hair Pin Clip, No. 3
9	GD1059L GD1059R	1 1	Support, L.H. (Shown) Support, R.H.
10	G10002 G10229	4 4	Hex Head Cap Screw, ⅜"-16 x ¾" Lock Washer, ⅜"
11	G10312 G10620	8 8	Carriage Bolt, 5⁄16"-18 x ¾" Serrated Flange Nut, 5⁄16"-18
12	G10325	1	Hex Head Cap Screw, ⅜"-16 x 2¾"
13	G10567	3	External Retaining Ring, ⅝"
14	GD11305	1	Plate
15	A10759	1	Hopper Panel Extension (Non-Stock Item) (Sub Wholegoods Order Code 700-01099)
16	GD11424	4	Block
17	G10023 G10621	2 2	Hex Head Cap Screw, ¼"-20 x ¾" Serrated Flange Nut, ¼"-20
18	GD1060	1	Hinge
19	GA8371	1	Hopper
20	GA4444	1	Lid
21	GD11239	1	Knob
22	G10602	1	Spring Pin, ¼" x 1½"

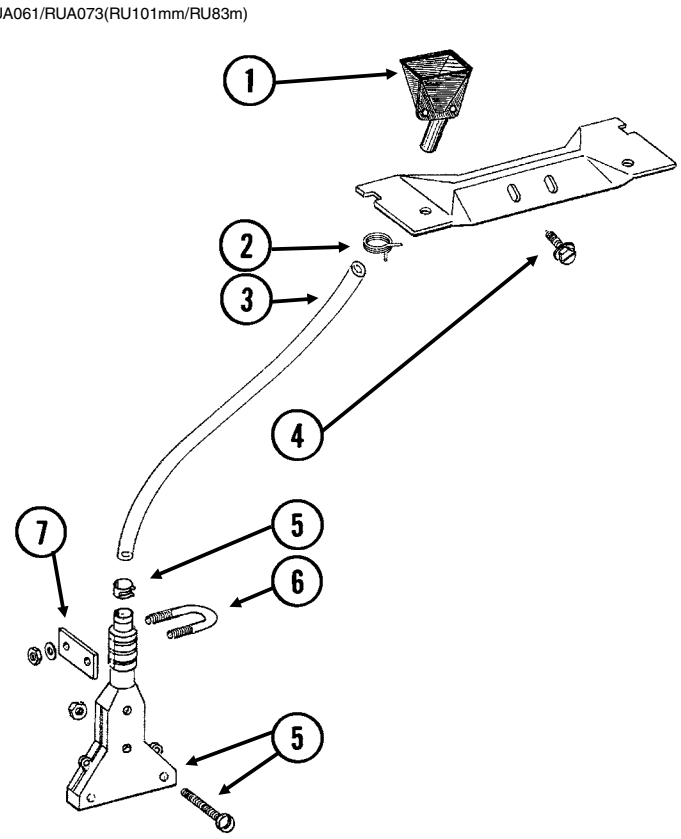
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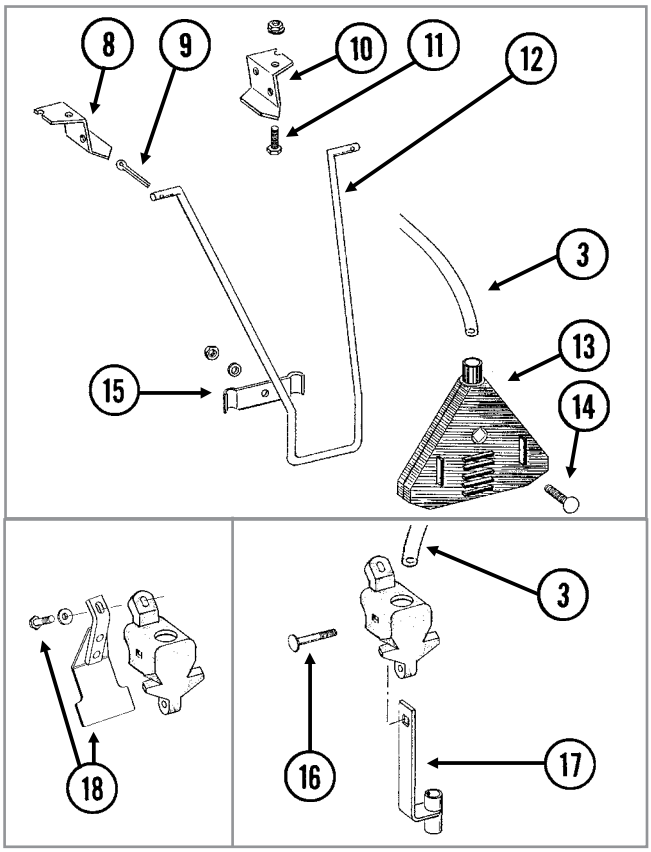


ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10567	3	External Retaining Ring, ⅝"
2	GD11239	1	Knob
3	G10602	1	Spring Pin, ¼" x 1½"
4	---	-	See “Granular Chemical Hopper and Hopper Panel Extension” on page P27
5	GA8364	1	Sprocket And Bearing, Drive Clutch, 24 Tooth
6	GD11413	1	Spring
7	GD11240	1	Shaft
8	GB0278	1	Coupler
9	G10546	2	Spring Pin, 3⁄16" x 1¼"
10	GD11297	1	Shaft
11	G11793	4	Hex Socket Head Cap Screw, No. 10-24 x ⅞"
12	GD7148	1	Feed Roller, Hex Bore
13	GB0115	2	Bearing
14	GD7258	2	Hex Bushing
15	G3303-114 G3303-108 GR0196	1 1 1	Chain, No. 41, 114 Pitch Including Connector Link (Mechanical) Chain, No. 41, 108 Pitch Including Connector Link (Vacuum) Connector Link, No. 41
16	G10660	1	Wave Washer, ½"
17	G11385	1	Flat Washer, ¼" SAE
18	G10570	1	Slotted Hex Self-Tapping Screw, ¼"-20 x ¾"
19	G11073	2	Slotted Hex Self-Tapping Screw, No. 10 x ⅜"
20	GD1061	1	Support Strap
21	GD1063	1	Metering Gate
22	GB0116	1	Granular Housing
A	GA8326	-	Granular Chemical Meter Complete (Items 1, 9, 10, 12-14 And 16-22)
B	GA8366	-	Granular Chemcial Meter Clutch (Items 1-3 and 5-9)

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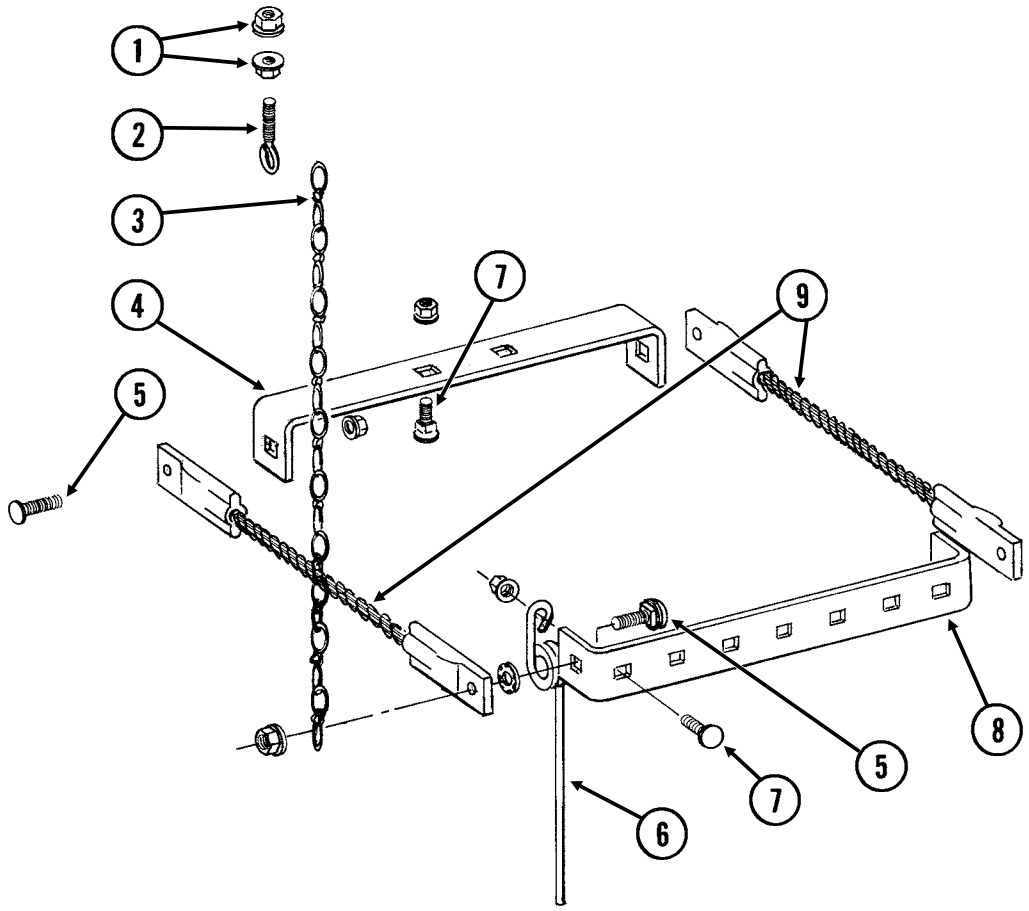
RUA061/RUA073(RU101mm/RU83m)





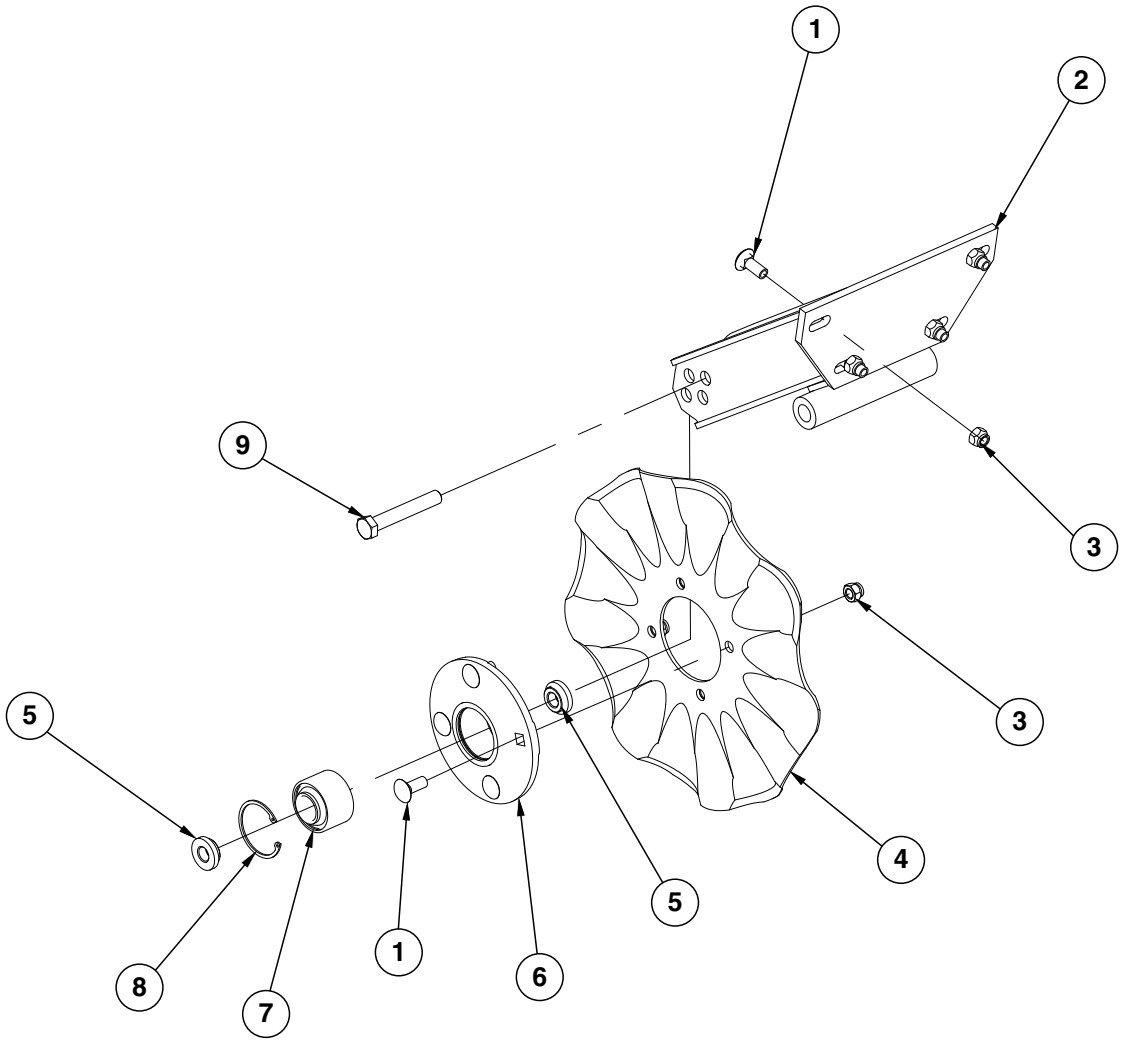
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2423	1	Funnel
2	G11209	1	Wire Hose Clamp, ¾"
3	GD2947	1	Hose, 7⁄16" x 28"
4	G10523	2	Slotted Pan Head Self-Tapping Screw, No. 10 x ½"
5	GA6907	1	Slope-Compensating Bander W/Hardware (4½" Band Width)
	G10864	1	Uni-Clamp
	G10757	2	Pan Head Screw, No. 10-32 x 1¼"
	G10758	2	Hex Nut, No. 10-32
6	GD10963	1	U-Bolt, 1½" x 1 5⁄16" x ¼"-20
	G11385	2	Flat Washer, ¼" SAE
	G10110	2	Lock Nut, ¼"-20, Grade B
7	GD10984	1	Spacer
8	GD1115L	-	Hanger Bracket, L.H.
9	G10452	-	Cotter Pin, ⅛" x ½"
10	GD1115R	-	Hanger Bracket, R.H.
11	G10310	-	Carriage Bolt, ¼"-20 x ¾", Grade 2
	G10227	-	Lock Washer, ¼"
	G10103	-	Hex Nut, ¼"-20
12	GD1116	-	Hanger
13	GA2075	-	Diffuser, 14" Band
14	G10306	-	Carriage Bolt, ⅜"-16 x 2"
	G10229	-	Lock Washer, ⅜"
	G10101	-	Hex Nut, ⅜"-16
15	GD1118	-	Clamp
16	G10315	1	Carriage Bolt, ½"-13 x 2½" (Replaces Existing ½" x 2¼" Hardware)
17	GA6741	1	Bracket (Straight Drop In-Furrow)
18	G1K385	-	Bander Shield Kit W/Hardware And Instruction
	G10003	1	Hex Head Cap Screw, ⅜"-16 x 1½" (Included W/G1K385)
	G11387	1	Flat Washer, ⅜" SAE (Included W/G1K385)

RUA055(RU95)



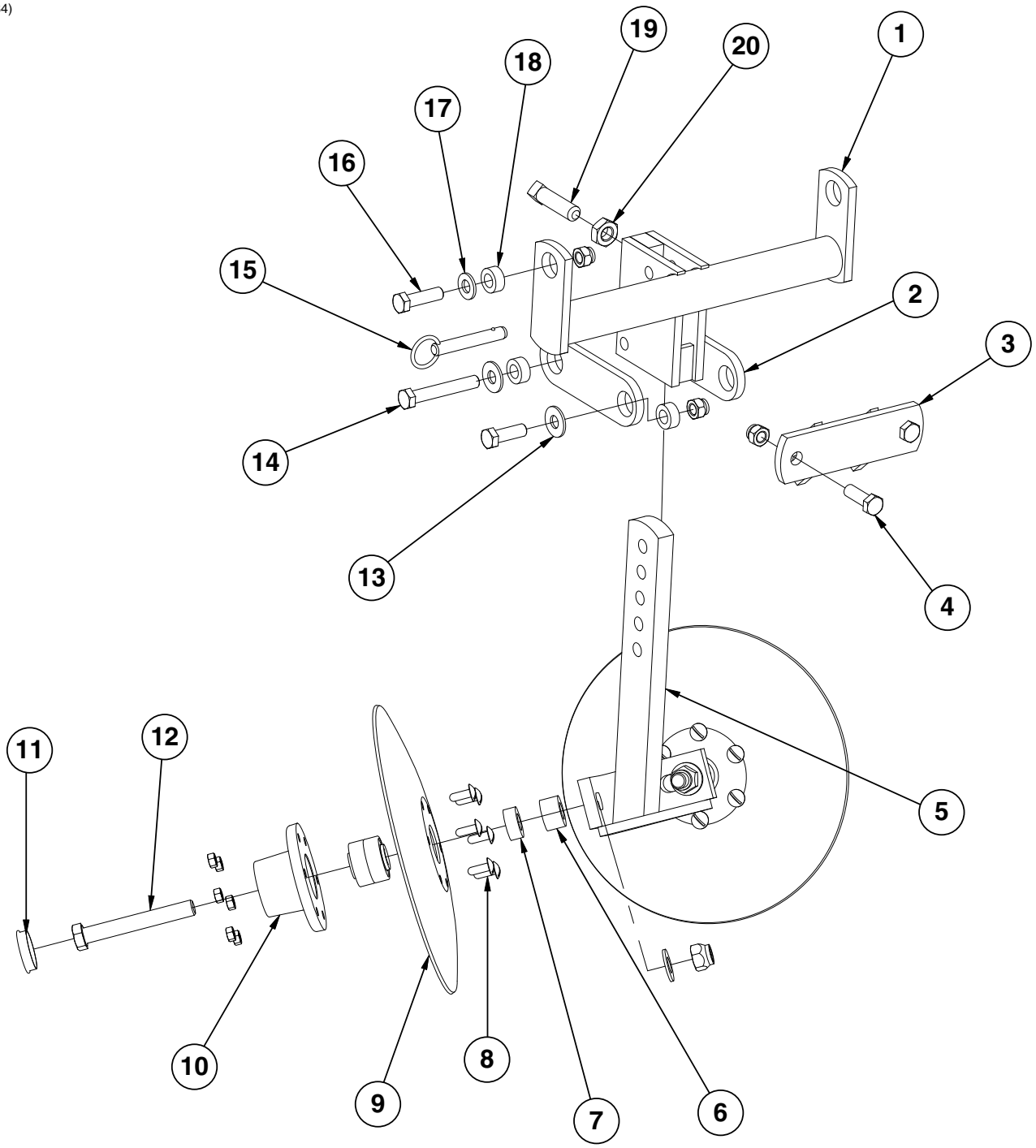
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10621	4	Serrated Flange Nut, ¼"-20
2	GD2460	2	Eyebolt, ¼"-20
3	G3305-01	2	Twin Loop Chain, 9 Links
4	GD1143	1	Front Bracket
5	G10305 G10529 G10622	4 4 4	Carriage Bolt, ⅜"-16 x 1" External Tooth Lock Washer, ⅜" Serrated Flange Nut, ⅜"-16
6	GD1145	7	Spring Tooth
7	G10305 G10622	9 9	Carriage Bolt, ⅜"-16 x 1" Serrated Flange Nut, ⅜"-16
8	GD1144	1	Rear Bracket
9	GA2094	2	Cable Assembly

(IP1279)



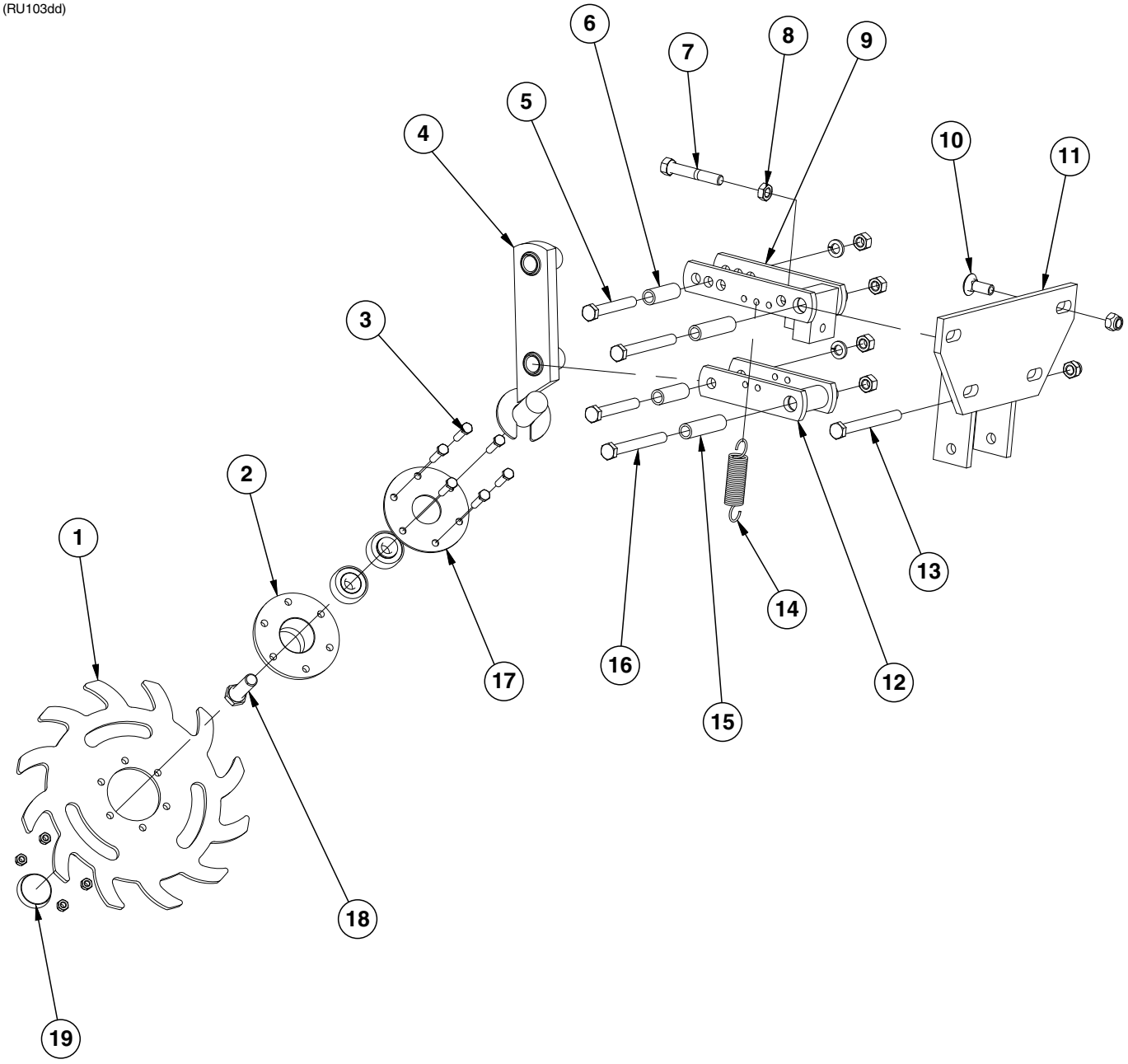
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10574	8	Carriage Bolt, ½"-13 x 1 ¼"
2	GA24239	1	Arm
3	G10111	8	Lock Nut, ½"-13
4	GD7803 GD7804 GD9254	1 - -	Disc Blade, Fluted, 1", 8 Flutes (Shown) Disc Blade, Bubbled, 1" Disc Blade, Fluted, ¾", 13 Flutes
5	GD11677	2	Adapter
6	GA8641	1	Hub W/Bearing And Retaining Ring (Includes items 7 and 8)
7	GA8603	1	Bearing, Double Row
8	GD19292	1	Retaining Ring (Square), 2 7/16"
9	G10036 G10107	1 1	Hex Head Cap Screw, ⅝"-11 x 4" Lock Nut, ⅝"-11

(IP1284)



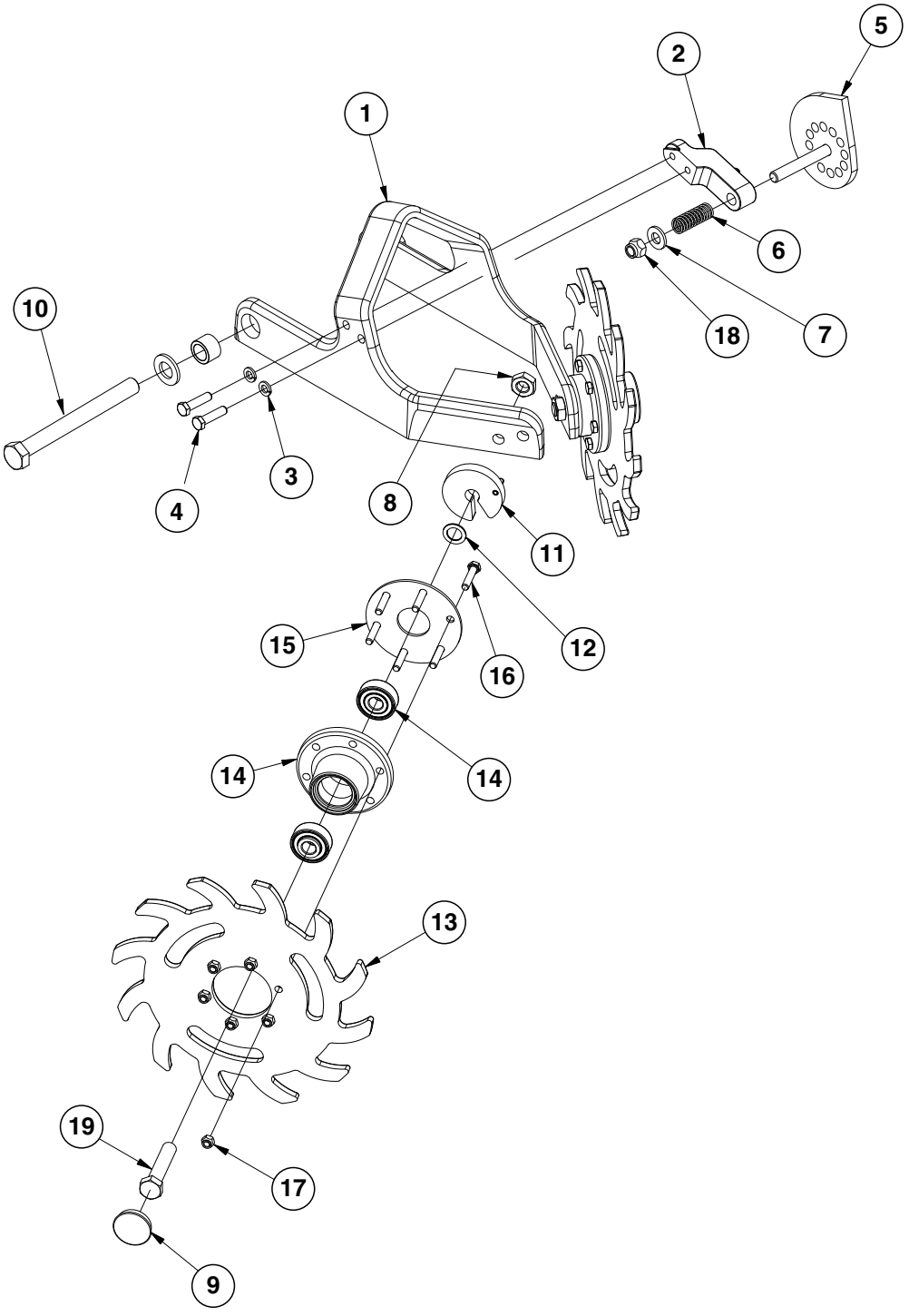
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA5719	1	Mounting Bracket
2	GD7890	2	Link
3	GA5715	1	Anchor
4	G10017 G10111	2 2	Hex Head Cap Screw, ½"-13 x 1½" Lock Nut, ½"-13
5	GA5718	1	Support Arm
6	GD7817-01	2	Spacer, 1 1⁄16" I.D. x ¾" Long
7	GD7817-04	2	Spacer, 1 1⁄16" I.D. x ½" Long
8	G10572 G10106	12 12	Truss Head Slotted Machine Screw, 5⁄16"-18 x ⅞" Hex Nut, 5⁄16"-18
9	GD7823 GD8307	- -	Disc Blade, Solid, 12" (Shown) Disc Blade, Notched, 12"
10	GA5654 GA2014	2 -	Hub W/Bearings Bearing (Included W/GA5654)
11	GD1132	2	Dust Cap
12	G10318 G10107 G11391	2 2 2	Hex Head Cap Screw, ⅝"-11 x 4½" Lock Nut, ⅝"-11 Flat Washer, ⅝" SAE
13	G11389 G10017 G10111	2 2 2	Flat Washer, ½" SAE Hex Head Cap Screw, ½"-13 x 1½" Lock Nut, ½"-13
14	G10585 G11389 G10111	1 2 1	Hex Head Cap Screw, ½"-13 x 3¼" Flat Washer, ½" SAE Lock Nut, ½"-13
15	G10536	1	Detent Pin, ½" x 2½" Grip
16	G10039 G10111	2 2	Hex Head Cap Screw, ½"-13 x 1¾" Lock Nut, ½"-13
17	G11389	2	Flat Washer, ½" SAE
18	GD7889	6	Bushing, 1" O.D. x 9⁄16" I.D. x 7⁄16" Long
19	G10597	1	Square Head Set Screw, ⅝"-11 x 2¼"
20	G10503	1	Hex Jam Nut, ⅝"-11, Grade 2

(RU103dd)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GB0387	1	Wheel, 12 Tine, ⅜" x 12"
2	GA5654	1	Hub W/Bearings
	GA2014	-	Bearing (Included W/GA5654)
3	G10133	6	Hex Head Cap Screw, 5/16"-18 x 1½"
	G10109	6	Lock Nut, 5/16"-18, Grade 8
4	GA6838	1	Wheel Mount
5	G10033	2	Hex Head Cap Screw, ½"-13 x 3½"
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
6	GD9720	2	Spacer, ½" x 2 3/16" Long
7	G10371	1	Hex Head Cap Screw, ½"-13 x 3", Full Thread
8	G10501	1	Hex Jam Nut, ½"-13, Grade 2
9	GA6833	1	Upper Link
10	G10574	4	Carriage Bolt, ½"-13 x 1¼"
	G10111	4	Lock Nut, ½"-13
11	GA6832	1	Mount
12	GA6834	1	Lower Link
13	G10348	1	Hex Head Cap Screw, ½"-13 x 5" (Lockup Bolt)
	G10111	1	Lock Nut, ½"-13
14	GD5857	2	Spring
15	GD9715	2	Spacer, ½" x 3" Long
16	G10045	2	Hex Head Cap Screw, ½"-13 x 4½"
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
17	GD9724	1	Backing Plate
18	G10006	1	Hex Head Cap Screw, ⅝"-11 x 2¼"
19	GD1132	1	Dust Cap
A	GA12236	-	Wheel Assembly, 12 Tine, R.H. (Items 1-3 and 18)

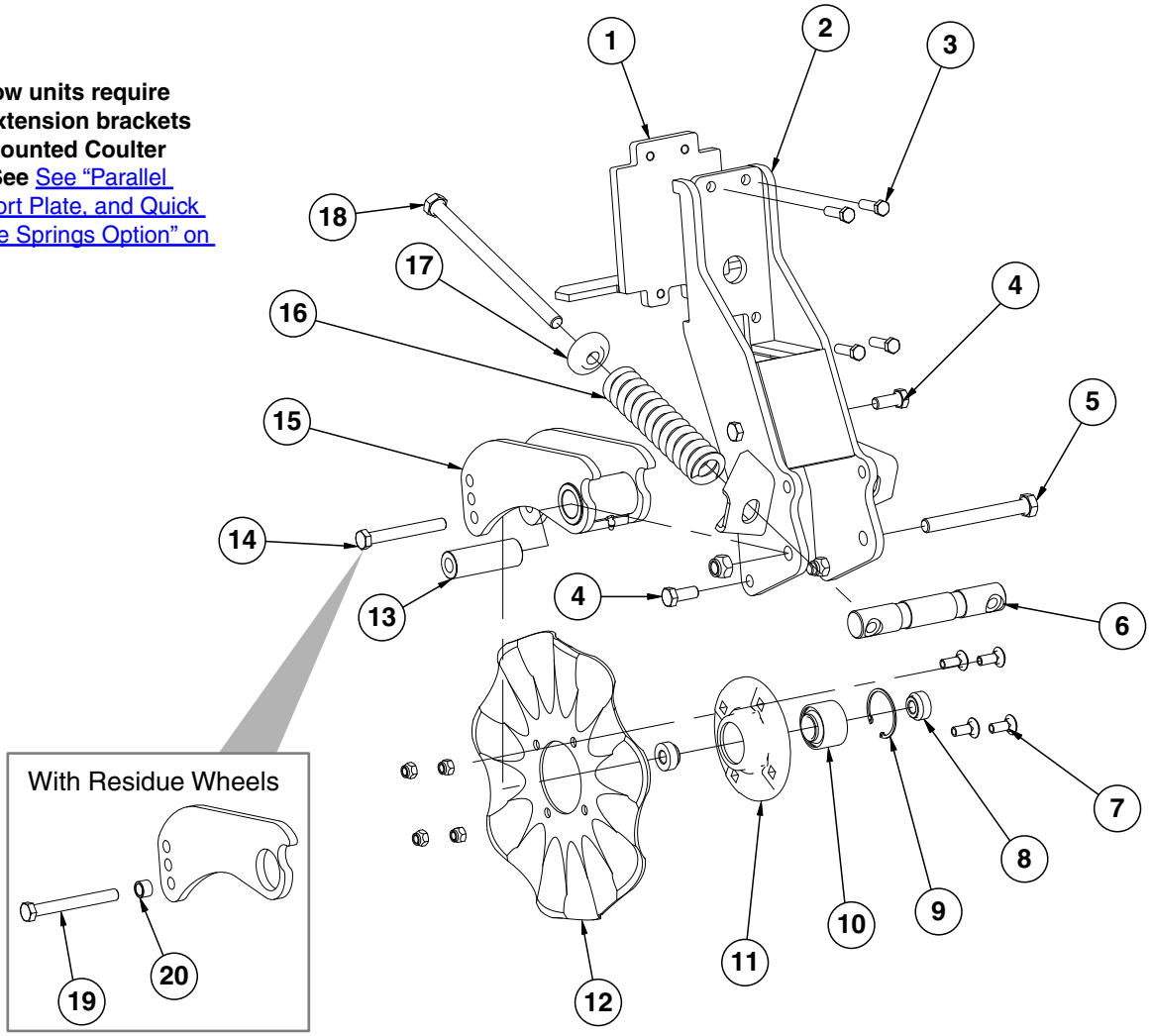
(IP1468)

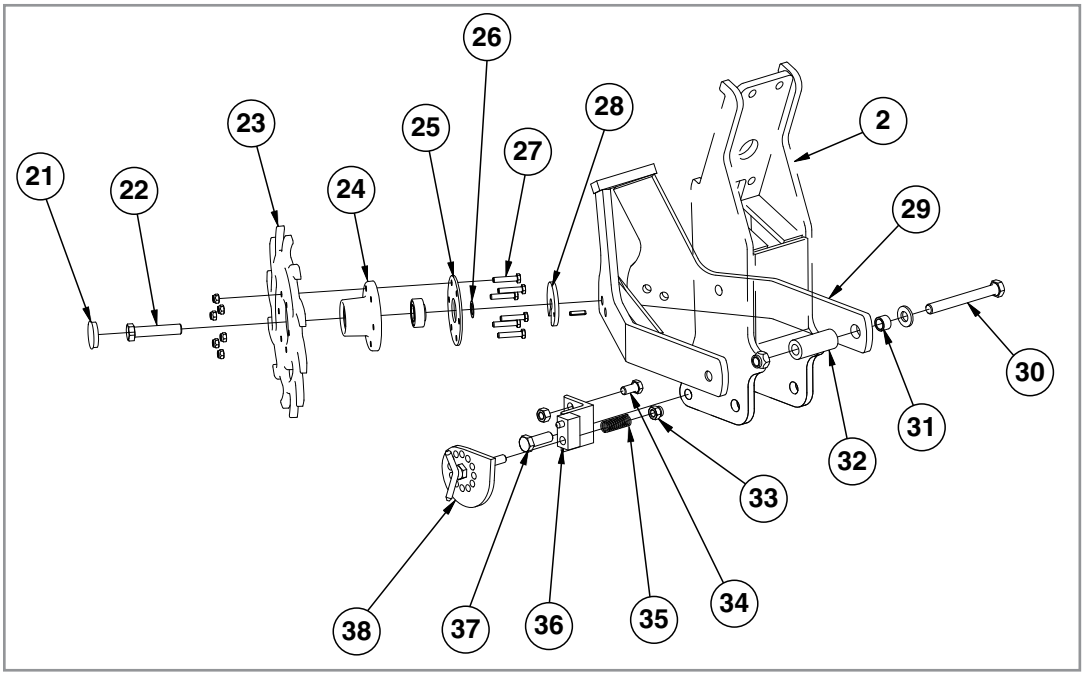


ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GB0464	1	Residue Wheel Mount
2	GD26973	1	Cam Locking Pin
3	G10229	2	Lock Washer, ⅜"
4	G10004	2	Hex Head Cap Screw, ⅜"-16 x 1¼"
5	GA14251	1	Cam
6	GD10519	1	Spring
7	G11389	1	Flat Washer, ½" Plated SAE
8	G10503	2	Hex Jam Nut, ⅝"-11, Grade 2
9	GD1132	2	Dust Cap
10	G11236 G11392 GB0383 G11228	1 2 2 1	Hex Head Cap Screw, ¾"-10 x 10½" Flat Washer, ¾" SAE Bushing, 1⅛" O.D. x 25/32" I.D. x ¾" Long Lock Nut, ¾"-10
11	GA8760 G10765	2 -	Weed Guard W/Spring Pin Spring Pin, ¼" x 1" (Included W/GA8760)
12	GD30725	4	Machine Bushing, ⅝" (.030" Thick)
13	GB0387	2	Wheel, 12 Tine, ⅜" x 12"
14	GA5654 GA2014	2 -	Hub W/Bearings Bearing (Included W/GA5654)
15	GD9724	2	Backing Plate
16	G10133	12	Hex Head Cap Screw, 5/16"-18 x 1½"
17	G10109	12	Lock Nut, 5/16"-18, Grade 8
18	G10974	1	Lock Nut W/Nylon Insert, ½"-13
19	G10010	2	Hex Head Cap Screw, ⅝"-11 x 3"
A	GA12235	-	L.H. Residue Wheel (Items 13-17)
B	GA12236	-	R.H. Residue Wheel (Items 13-17)

(IP1292/IP1294)

NOTE: Four center row units require special mount and extension brackets when using Frame Mounted Coulter W/Residue Wheels. See See “Parallel Arms, Mounting Support Plate, and Quick Adjustable Down Force Springs Option” on page P5**.**

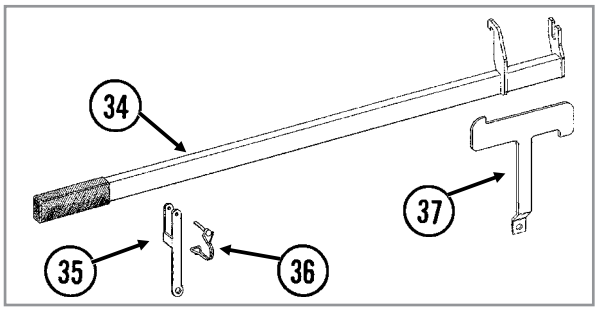


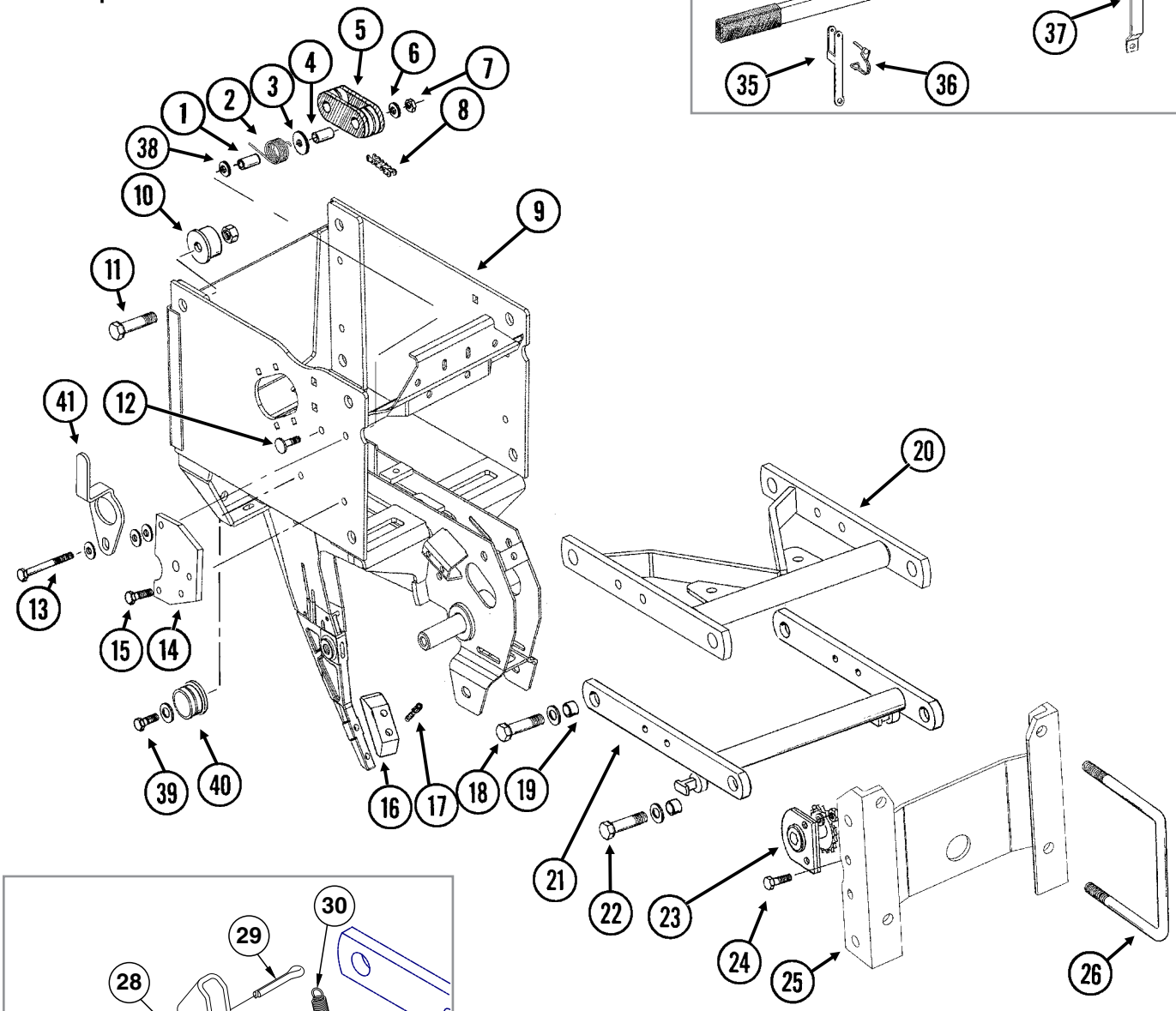


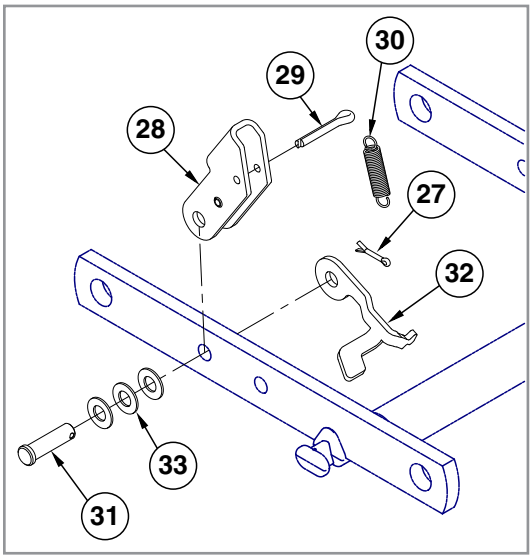
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA9844	1	Plate W/Angle
2	GA9131	1	Coulter Frame
3	G10039	4	Hex Head Cap Screw, ½"-13 x 1¾"
4	G10007	4	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10107	4	Lock Nut, ⅝"-11
5	G10400	1	Hex Head Cap Screw, ¾"-10 x 6½"
	G10112	1	Lock Nut, ¾"-10
6	GD12826	1	Spring Anchor Bar
7	G10574	4	Carriage Bolt, ½"-13 x 1¼"
	G10111	4	Lock Nut, ½"-13
8	GD12827	2	Adapter
9	GD19292	1	Retaining Ring, 2⁷⁄₁₆"
10	GA8603	1	Bearing, Double Row
11	GB0291	1	Coulter Hub
12	GD7803	1	Disc Blade, Fluted, 1", 8 Flutes (Shown)
	GD7804	-	Disc Blade, Bubbled, 1"
	GD9254	-	Disc Blade, Fluted, ¾", 13 Flutes
13	GD12829	1	Sleeve
14	G10046	1	Hex Head Cap Screw, ⅝"-11 x 5"
	G10107	1	Lock Nut, ⅝"-11
15	GA9845	1	Coulter Arm W/Grease Fitting
	G10643	-	Grease Fitting, 45°, ¼"-28 (Included W/GA9845)
16	GD12817	2	Compression Spring
17	GB0213	2	Spring Seat
18	G11010	2	Hex Head Cap Screw, ¾"-10 x 12"
19	G10011	1	Hex Head Cap Screw, ⅝"-11 x 5½"
20	GB0218	1	Bushing, ²¹⁄₃₂" I.D. x ⅞" O.D. x ¹⁹⁄₃₂" Long
21	GD1132	2	Dust Cap
22	G10010	2	Hex Head Cap Screw, ⅝"-11 x 3"
	G10503	2	Hex Jam Nut, ⅝"-11, Grade 2
23	GB0387	2	Wheel, 12 Tine, ⅜" x 12"
24	GA5654	2	Hub W/Bearings
	GA2014	2	Bearing (Included W/GA5654)
25	GD9724	2	Backing Plate
26	G10213	2	Machine Bushing, ⅝" (.030" Thick)
27	G10133	12	Hex Head Cap Screw, ⁵⁄₁₆"-18 x 1½"
	G10109	12	Lock Nut, ⁵⁄₁₆"-18, Grade 8
28	GA9862	2	Weed Guard W/Spring Pin
	G10765	1	Spring Pin, ¼" x 1" (Included W/GA9862)
29	GA9865	1	Mount
30	G10011	2	Hex Head Cap Screw, ⅝"-11 x 5½"
	G11391	2	Flat Washer, ⅝" SAE
	G10730	2	Lock Nut W/Nylon Insert, ⅝"-11
31	GB0218	2	Bushing, ²¹⁄₃₂" I.D. x ⅞" O.D. x ¹⁹⁄₃₂" Long
32	GD14170	2	Sleeve, 3"
34	G10014	1	Hex Head Cap Screw, ½"-13 x 1"
	G10102	1	Hex Nut, ½"-13
33	G10974	1	Lock Nut W/Nylon Insert, ½"-13
35	GD10519	1	Spring
36	GA15312	1	Support
37	G10005	1	Hex Head Cap Screw, ⅝"-11 x 1¾"
	G10107	1	Lock Nut, ⅝"-11
38	GA9861	1	Cam
A	GA12236	-	Wheel Assembly, 12 Tine, R.H. (Items 23-25 and 27) (Shown)
	GA12235	-	Wheel Assembly, 12 Tine, L.H. (Items 23-25 and 27)
B	GA8641	1	Hub W/Bearing And Retaining Ring (Items 9-11)

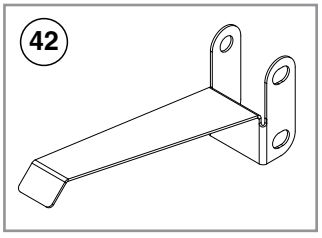
(RU156a/RU150b/A11969/A11971)

NOTE: Push row units use the same seed tube, row unit depth adjustment components, quick adjustable down force springs, 15" opener disc blades, gauge wheels, closing wheels, meter drive and seed hopper as the pull row unit. See those pages for common parts.









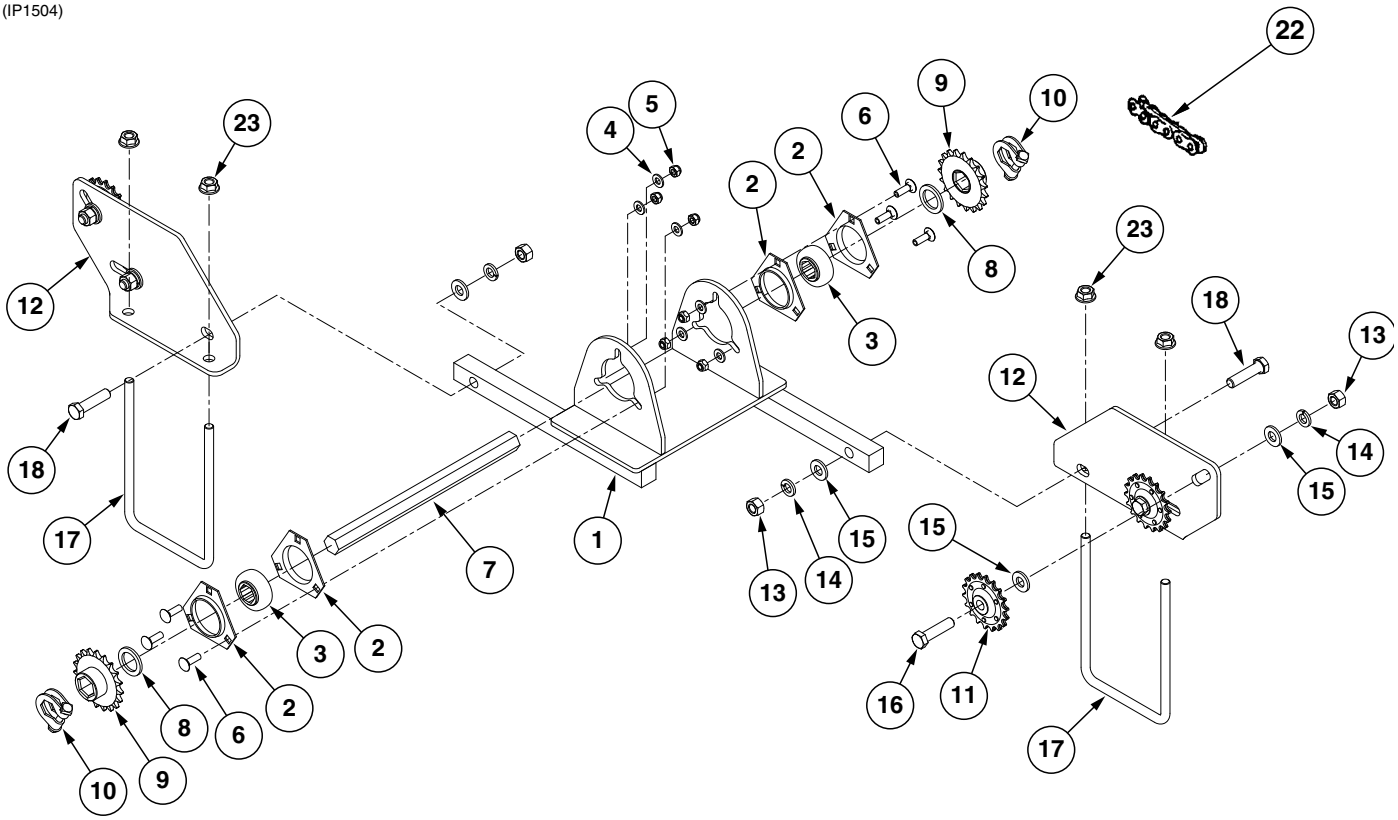
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1026	1	Sleeve, 1 3/16" Long
2	GD11218	1	Spring
3	G10201	1	Special Washer, 3/8" x 1 1/2" O.D.
4	GD8893-01	1	Sleeve, 1 3/8" Long
5	GB0968	1	Idler
6	G11387	1	Flat Washer, 3/8" SAE
7	G10108	1	Lock Nut, 3/8"-16
8	G3303-96 GR0196 GR0202	1 1 -	Chain, No. 41, 96 Pitch Including Connector Link Connector Link, No. 41 Offset Link, No. 80
9	GA10161	-	Push Row Unit Shank
10	GB0314	2	Hopper Mount
11	G10751 G11514	2 2	Hex Head Cap Screw, 5/8"-18 x 1 3/4" Lock Nut, 5/8"-18
12	G10599 G10101 G10108	1 1 1	Carriage Bolt, 3/8"-16 x 1 1/4" Hex Nut, 3/8"-16 Lock Nut, 3/8"-16
13	G10753 G11387	1 3	Hex Head Cap Screw, 3/8"-16 x 4 1/2" Flat Washer, 3/8" SAE
14	GD24545	2	Stop
15	G10004 G10108	3 3	Hex Head Cap Screw, 3/8"-16 x 1 1/4" Lock Nut, 3/8"-16
16	GB0301	1	Seed Tube Guard/Inner Scraper
17	G10912	2	Hex Socket Head Cap Screw, 5/16"-18 x 1", Grade 8
18	G10751 G11391 G11514	4 4 4	Hex Head Cap Screw, 5/8"-18 x 1 3/4" Flat Washer, 5/8" SAE Lock Nut, 5/8"-18
19	GB0218	8	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
20	GA11969	1	Upper Arm
21	GA5787	1	Lower Arm
22	G10732 G11391 G11514	4 4 4	Hex Head Cap Screw, 5/8"-18 x 2" Flat Washer, 5/8" SAE Lock Nut, 5/8"-18
23	GA1720	1	Bearing/Sprocket, 7/8" Hex Bore
24	G10004 G11091	2 2	Hex Head Cap Screw, 3/8"-16 x 1 1/4" Serrated Flange Nut, 3/8"-16
25	GA11971	1	Mounting Plate
26	GD1113 G10230 G10104	- 4 4	U-Bolt, 5" x 7" x 5/8"-11 Lock Washer, 5/8" Hex Nut, 5/8"-11
27	G10451	2	Cotter Pin, 1/8" x 1"
28	GD11264 G10718	2 2	Lockup Spring Pin, 5/16" x 1 1/8"
29	G10463	2	Cotter Pin, 1/4" x 1 1/2"
30	GD25569	2	Spring
31	G10284	2	Clevis Pin, 1/2" x 1 1/2"
32	GD25568 GD29459	1 1	Spring Mount Tab, L.H. Spring Mount Tab, R.H.
33	G10216	2	Washer, 1/2" USS
34	GA12117 GD11649	1 -	Lift Lever W/Boot Boot (Included W/GA12117)

Continued on the next page.

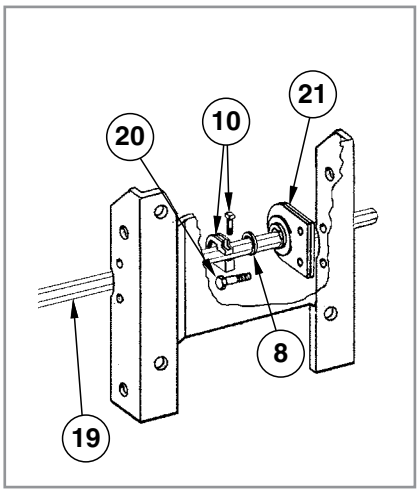
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
35	GD18073	1	Bracket
36	GD9695	1	Wire Lock Pin, ¼" x 1¾"
37	GD18075	1	Mount
38	G11387	1	Flat Washer, ⅜" SAE
39	G10001 G11387 G10108	1 - 1	Hex Head Cap Screw, ⅜"-16 x 1" Flat Washer, ⅜" SAE Lock Nut, ⅜"-16
40	GD17052	1	Vacuum Plug
41	GD17014	1	Hose Guide
42	GD29806	-	Seed Tube Bracket
A	G1K534	-	Push Unit Lock-Up Kit, Items 27-33 (includes GD11648 - Push Unit Stop)
B	G1K535	-	Push Unit Spring Lock-Up Kit, Items 27-33

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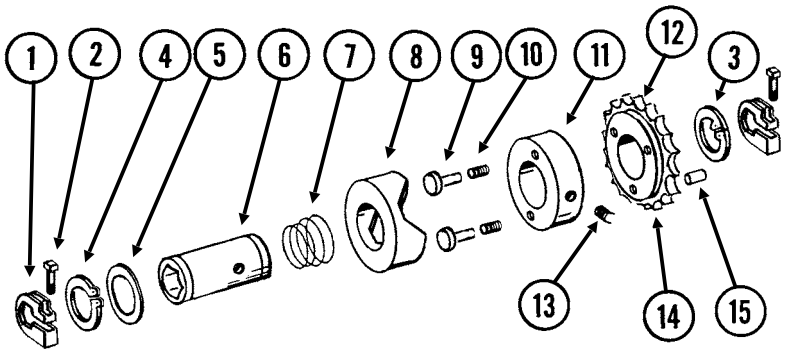


See “Clutch Sprocket Assembly” on page P49



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA18397 GA18398	1 -	L.H. Crossover R.H. Crossover
2	G3400-01	4	Flangette
3	G2100-03	2	Bearing, ⅞" Hex Bore, Spherical
4	G11386	6	Flat Washer, 5⁄16" SAE
5	G10109	6	Lock Nut, 5⁄16"-18
6	G10303	6	Carriage Bolt, 5⁄16"-18 x 1"
7	GD0914-12.50	1	Hex Shaft, ⅞" x 12½"
8	G10233	2	Machine Bushing, 1½" x 1⁄32", 10 Gauge (.1345")
9	GA5107	2	Sprocket, 19 Tooth
10	GA11331	2	Hex Lock Clamp Assembly
11	GA7154	2	Sprocket W/Bearing, 18 Tooth
12	GD18094	1	Plate
13	G10102	2	Hex Nut, ½"-13
14	G10228	2	Lock Washer, ½"
15	G11389	6	Flat Washer, ½" Plated SAE
16	G10016	2	Hex Head Cap Screw, ½"-13 x 2"
17	GD8306	2	U-Bolt, 7" x 5" x ½"-13
18	G10016	2	Hex Head Cap Screw, ½"-13 x 2"
19	GD0914-155 GD0914-215	- -	Hex Shaft, ⅞" x 155" (No Holes), 6 Row 30" Hex Shaft, ⅞" x 215" (No Holes), 8 Row 30"
20	G10001 G11091	- -	Hex Head Cap Screw, ⅜"-16 x 1" Serrated Flange Nut, ⅜"-16
21	GA2180	-	Hanger Bearing, ⅞" Hex Bore
22	G3310-122 GR0912	2 -	Chain, No. 40, 122 Pitch Including Connector Link Connector Link, No. 40 (Included W/G3310-122)
23	G10071	4	Serrated Flange Nut, ½"-13

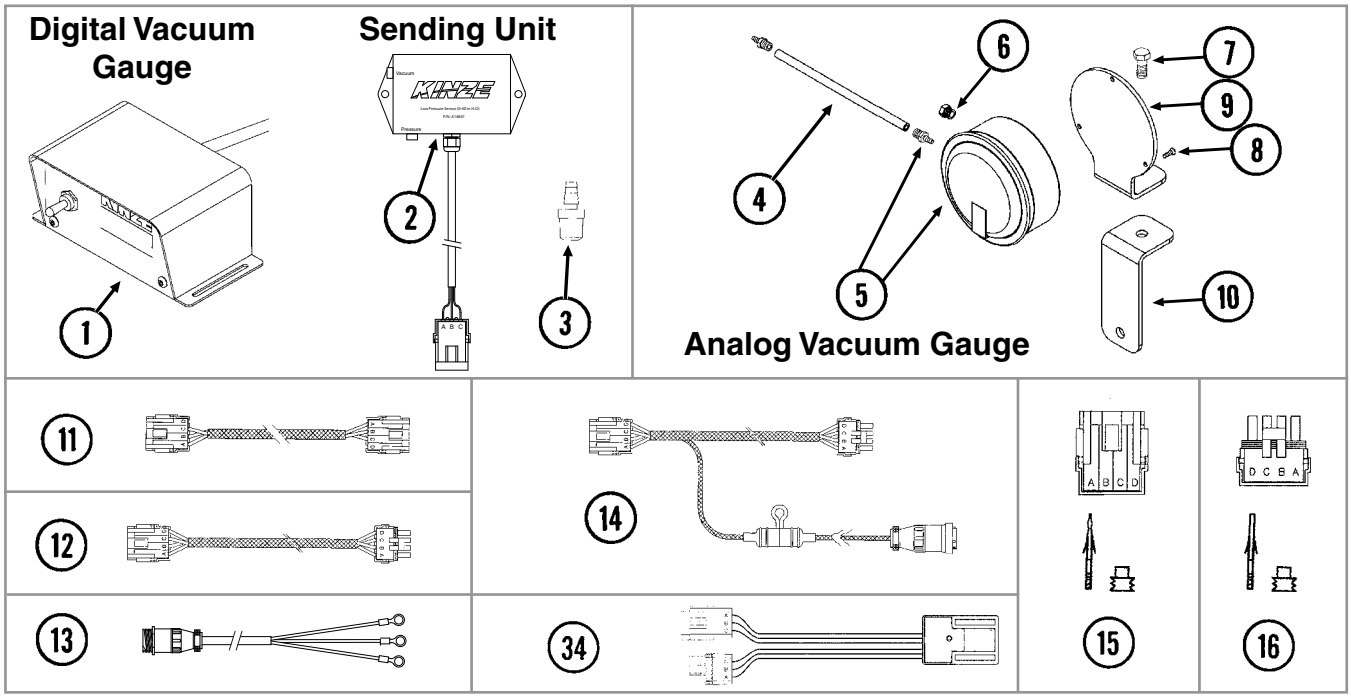
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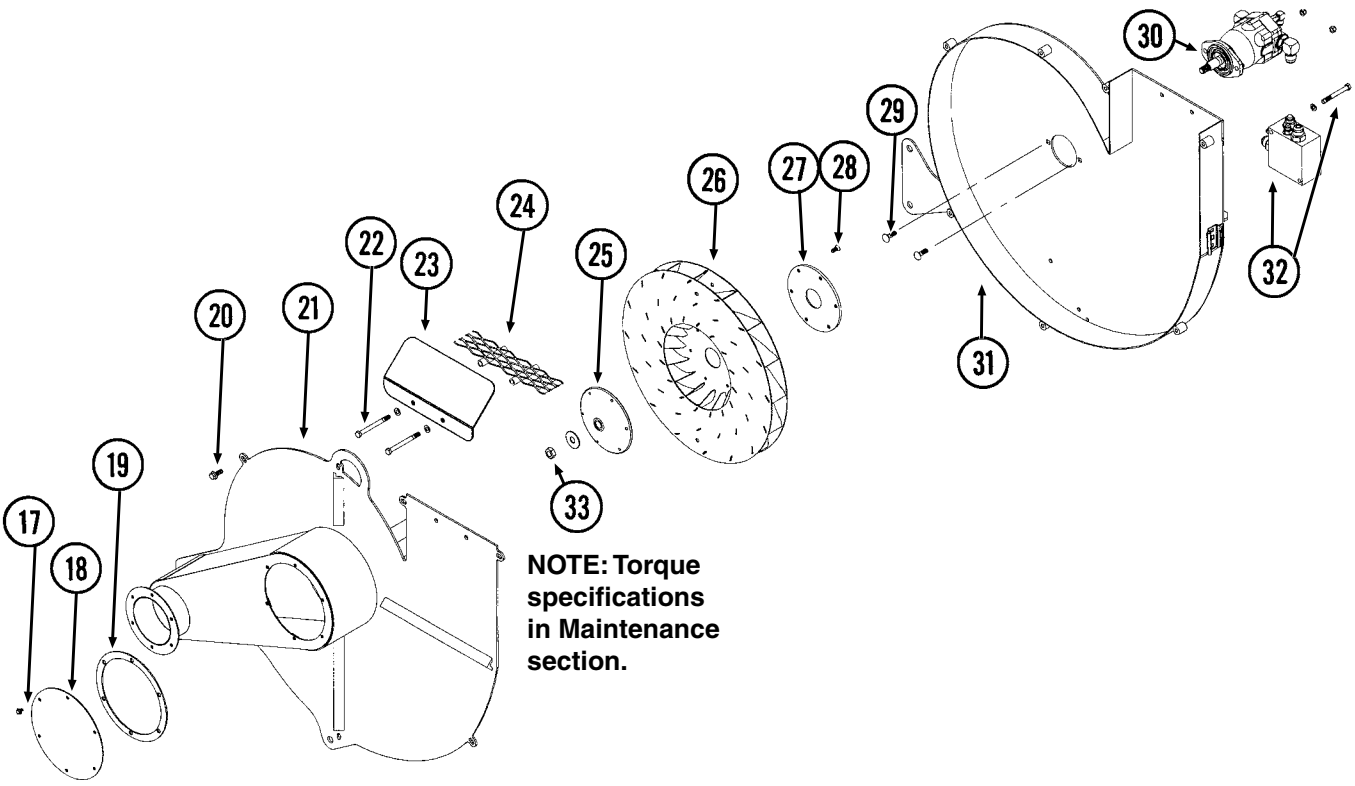


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD11045	-	Lock Clamp
2	G10130 G10923	- -	Square Head Machine Bolt, 5⁄16"-18 x 1¾" Flange Nut, 5⁄16"-18, No Serration
3	GD8306 G10228 G10102	2 4 -	U-Bolt, 7" x 5" x ½"-13 Lock Washer, ½" Hex Nut, ½"-13
4	G10496	2	External Inverted Snap Ring, 1½"
5	GR1411	1	Shim
6	GR1407	1	Drive Shaft
7	GR1408	1	Compression Spring
8	GR1409	1	Knurled Collar
9	GR1410	1	Pin
10	GR1413	1	Spring
11	GR1405	1	Lock Collar
12	GR1406	1	Bushing
13	G10535	1	Hex Socket Set Screw, ⅜"-16 x ¾"
14	GR1412	1	Sprocket, 19 Tooth
15	G10968	1	Spring Pin, 5⁄32" x 7⁄16"
A	GA8092	-	Clutch Sprocket Assembly, 19 Tooth (Items 4-15)
B	G1K269	-	Lock Clamp Kit (Items 1 And 2)
C	G1K331	-	Clutch Sprocket Kit (Items 12, 14 And 15)

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(A11154/A11156/GR1736/A10765/A11158/A11699/A7856/A11155/A8329/METR68)

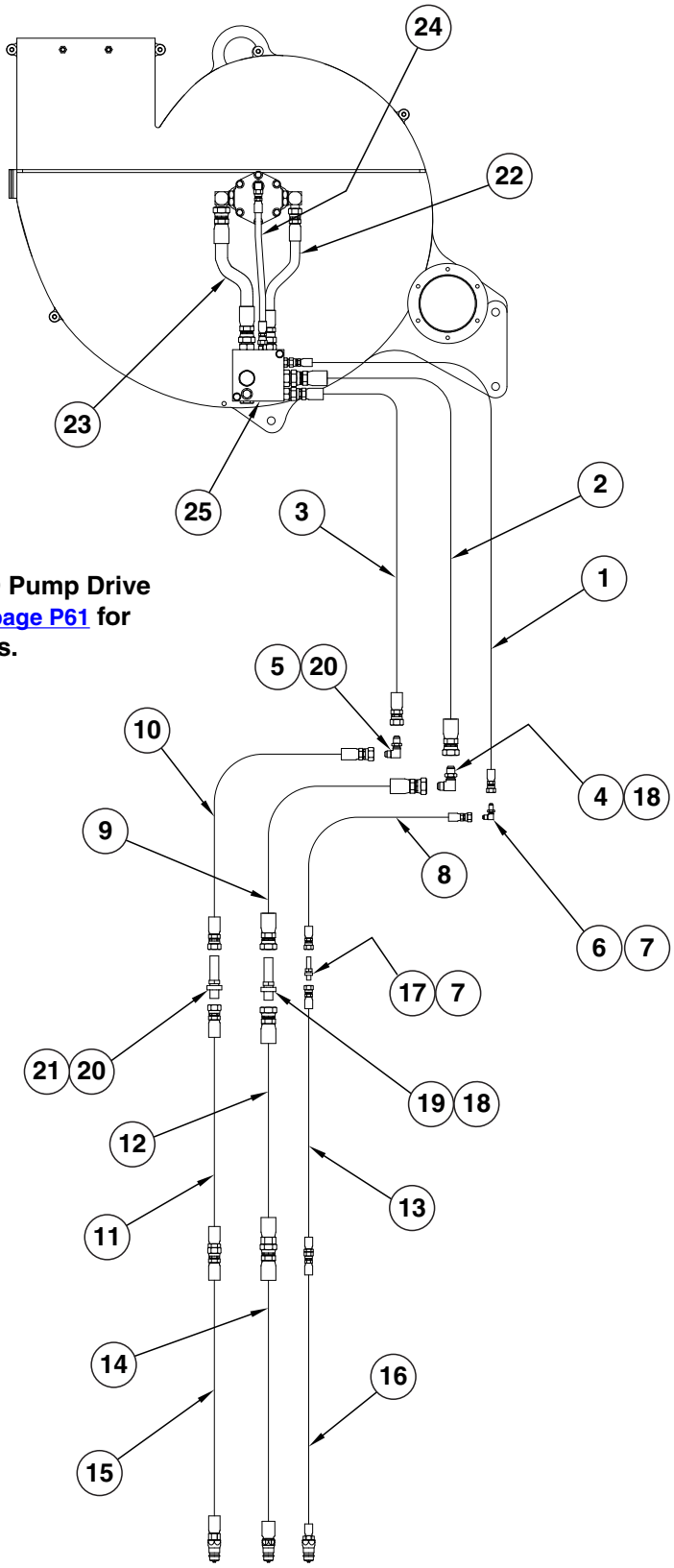




NOTE: Torque specifications in Maintenance section.

ITEM	PART NO.	QTY.	DESCRIPTION
1	GA11154	1	Digital Vacuum Gauge W/4-Pin Connector
2	GA14847 GD17151-03 GA9964	1 - -	Low Pressure Sensor (0-40 IN H_20) Nylon Tubing, ¼" O.D. x 37' Strain Relief
3	GR1736	1	Hose Barb, ⅛" Barb To ⅛" Male NPT
4	GD15849-02	1	Clear Plastic Tubing, 5⁄16" O.D. x 3⁄16" I.D. x 120"
5	GA21406 GR1777	1 -	Pressure Gauge W/Hose Barb Hose Barb, ⅛" Male NPT To 3⁄16" Barb (Included W/GA21406)
6	GA10799	1	Breather, ⅛" Male NPT
7	G10001 G10108	1 1	Hex Head Cap Screw, ⅜"-16 x 1" Lock Nut, ⅜"-16
8	G11215	3	Hex Socket Head Cap Screw, No. 6-32 x ⅜", Grade 8
9	GD15804	1	Mount
10	GD15803	1	Support
11	GA11158	1	Harness, 468"
12	GA11699	-	Extension Harness, 180"
13	GA17547	-	Power Adapter Cable
14	GA11155 GD14258 GD14660 G1K268	1 - - -	Harness W/Fuse Holder And Fuse, 132" Fuse Holder (Included W/GA11155) Fuse, 2 Amp Delay Action (Included W/GA11155) Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (1) Lock Ring, (3) Female Terminal Pins
15	GA8328	-	4-Pin Female Connector Kit, 4 Seals And 4 Pin Contacts
16	GA8329	-	4-Pin Connector W/Male Housing, 4 Seals And 4 Socket Contacts
17	G11166	6	Whiz Lock Bolt, ¼"-20 x ¾"
18	GD16233	1	Manifold
19	GD16241	1	Gasket
20	G11124	7	Whiz Lock Bolt, ⅜"-16 x 1"
21	GA11086	1	Cover
22	G10063 G11387 G10108	2 2 2	Hex Head Cap Screw, ⅜"-16 x 4" Flat Washer, ⅜" SAE Lock Nut, ⅜"-16
23	GD15863	1	Discharge Deflector
24	GA11987	2	Screen
25	GD15790	1	Hub
26	GA10635	1	Impeller
27	GD15789	1	Backing Plate
28	G11133	6	Hex Socket Head Cap Screw, 5⁄16"-18 x ¾", Grade 8
29	G10599 G10229 G10101	2 2 2	Carriage Bolt, ⅜"-16 x 1¼" Lock Washer, ⅜" Hex Nut, ⅜"-16
30	---	-	See “Vacuum Fan Hydraulic Motor Assembly” on page P55
31	GA11085	1	Shroud
32	---	-	See “Vacuum Fan Motor Valve Block Assembly (Located Below Vacuum Fan Motor Assembly)” on page P57
33	G11391 G10499	1 1	Flat Washer, ⅝" SAE Hex Jam Nut, ⅝"-18, Grade 2
34	GA12812	-	Hall Effect Adapter
A	GA11087	-	Vacuum Fan Assembly (Items 17-22 and 24-33 on this page and Items 2, 3 and 8 on page P53)

(IP1269)

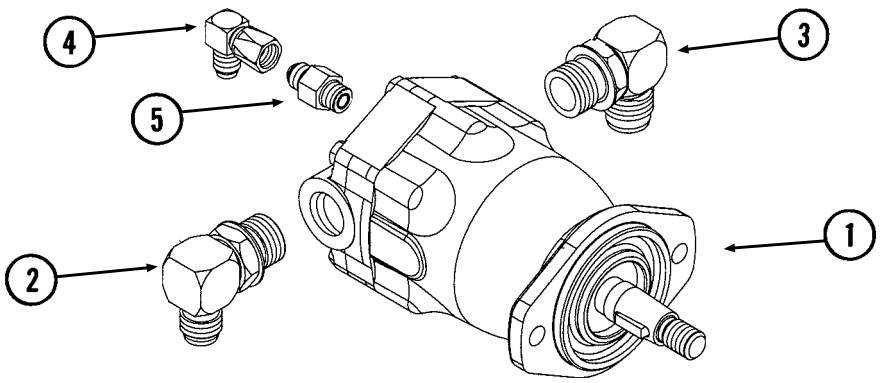


NOTE: If equipped with PTO Pump Drive And Oil Cooler Option see page P61 for those hydraulic components.

ITEM	PART NO.	QTY.	DESCRIPTION
1	*A12081	1	Hose Assembly, ⅜" x 58"
2	*A12924	1	Hose Assembly, ¾" x 54"
3	*A8280	1	Hose Assembly, ½" x 54"
4	G2701-12	1	Bulkhead Elbow, 90°, 1 1/16"-12 Male JIC
5	G2701-10	1	Bulkhead Elbow, 90°, ⅞"-14 Male JIC
6	G2701-06	1	Bulkhead Elbow, 90°, 9/16"-18 Male JIC
7	G306-06	2	Lock Nut, 9/16"-18
8	*A12080	1	Hose Assembly, ⅜" x 64"
9	*A12925	1	Hose Assembly, ¾" x 62"
10	*A1460	1	Hose Assembly, ½" x 62"
11	*A8274	1	Hose Assembly, ½" x 86"
12	*A3368	1	Hose Assembly, ¾" x 86"
13	*A12016	1	Hose Assembly, ⅜" x 86"
14	*A15068	1	Hose Assembly, ¾" x 150" (1/2M NPTF-12F) W/Special Tip
15	*A8251	1	Hose Assembly, ½" x 150" (1/2M NPTF-10F)
16	*A15069	1	Hose Assembly, ⅜" x 152" (1/2M NPTF-06F) W/Special Tip
17	G2700-06-06	1	Bulkhead Tube Union, 9/16"-18 Male JIC
18	G306-12	2	Lock Nut, 1 1/16"-12
19	G2700-12	1	Bulkhead Tube Union, 1 1/16"-12 Male JIC
20	G306-10	2	Lock Nut, ⅞"-14
21	G2700-10	1	Bulkhead Tube Union, ⅞"-14 Male JIC
22	*A8261	1	Hose Assembly, ½" x 13½"
23	*A3352	1	Hose Assembly, ¾" x 13½"
24	*A12015	1	Hose Assembly, ⅜" x 17"
25	---	-	See “Vacuum Fan Motor Valve Block Assembly (Located Below Vacuum Fan Motor Assembly)” on page P57

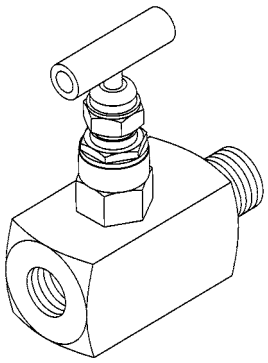
*** Hydraulic hose is not stocked by Kinze Repair Parts.**

(METR21a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA10149 GR2190 GR1734	1 - 	Hydraulic Motor Motor Key (Included W/GA10149) Seal Kit (Included W/GA10149)
2	G6801-10-12 GR1467	1 -	Elbow W/O-Ring, 90°, ⅞"-14 Male JIC To 1 1/16"-12 O-Ring O-Ring
3	G6801-12 GR1467	1 -	Elbow W/O-Ring, 90°, 1 1/16"-12 Male JIC To O-Ring O-Ring
4	G6500-06	1	Swivel Elbow, 90°, 9/16"-18 Male JIC To Female
5	G6400-06 GR1045	1 -	Connector W/O-Ring, 9/16"-18 Male JIC To O-Ring O-Ring

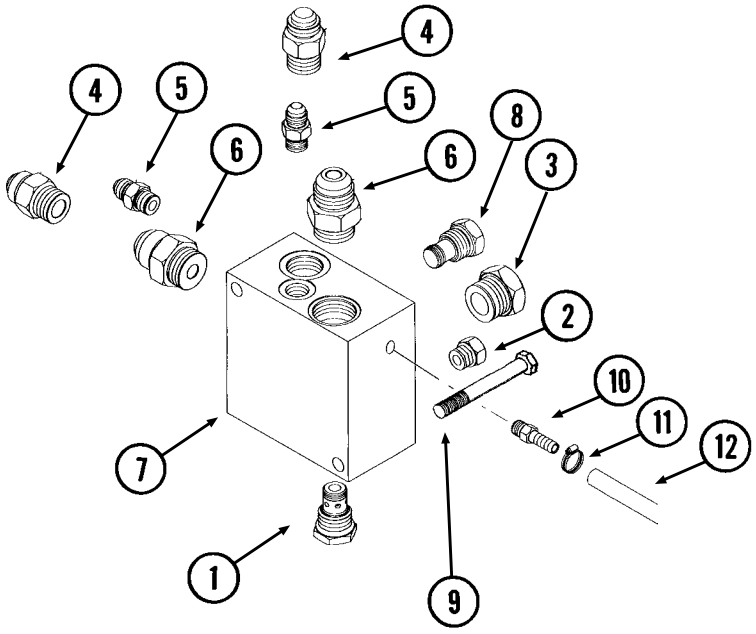
(A11650)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G1K426	-	Needle Valve Kit W/Instructions

Vacuum Fan Motor Valve Block Assembly (Located Below Vacuum Fan Motor Assembly)

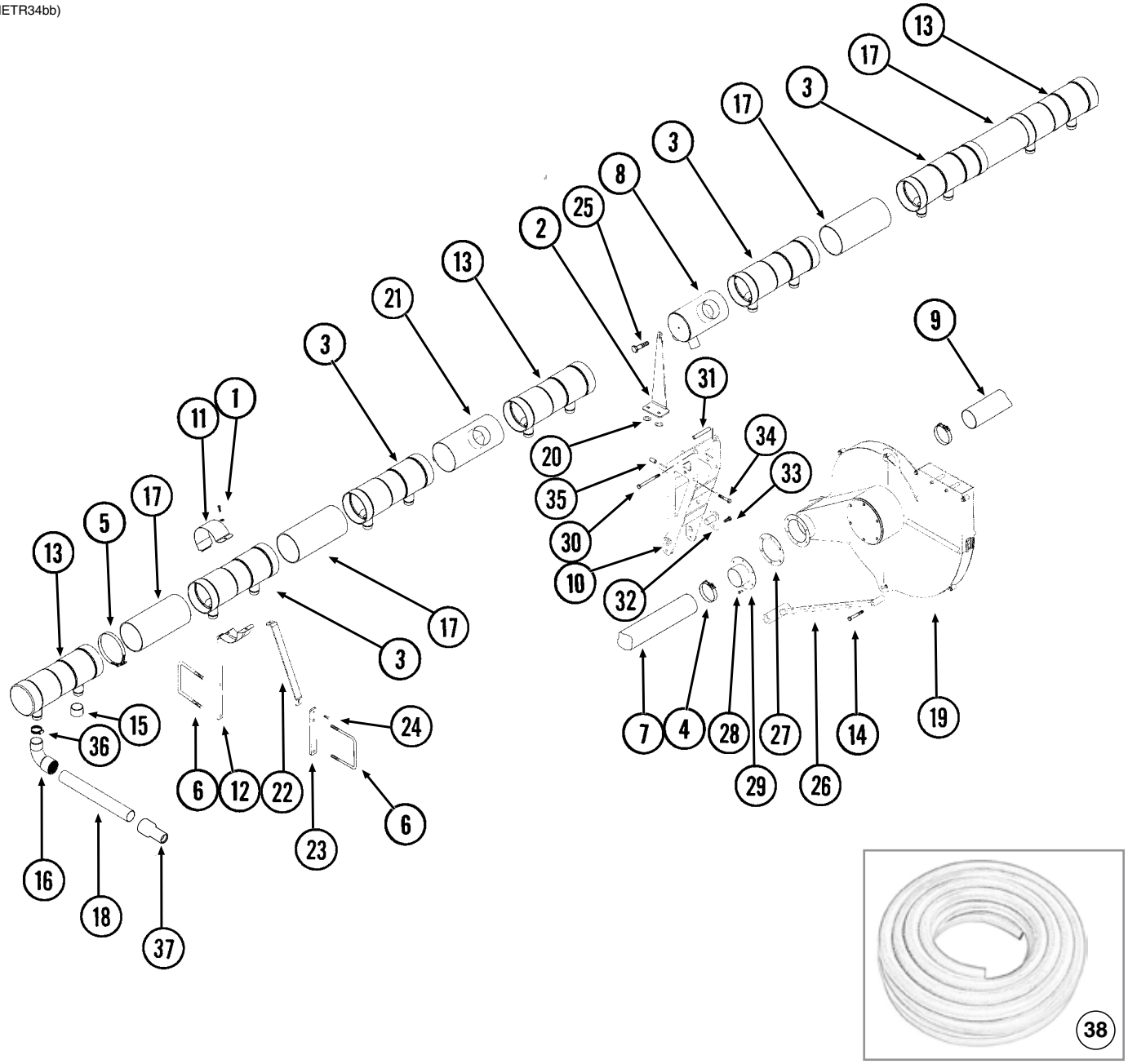
(A11068d)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA4293 GR2041	1 -	Check Valve Seal Kit
2	G6408-06 GR1045	1 -	Plug W/O-Ring, 9⁄16"-18 O-Ring O-Ring
3	G6408-12 GR1467	1 -	Plug W/O-Ring, 1 1⁄16"-12 O-Ring O-Ring
4	G6400-10 GR1466	2 -	Connector W/O-Ring, 7⁄8"-14 Male JIC To O-Ring O-Ring
5	G6400-06 GR1045	2 -	Connector W/O-Ring, 9⁄16"-18 Male JIC To O-Ring O-Ring
6	G6400-12 GR1467	2 -	Connector W/O-Ring, 1 1⁄16"-12 Male JIC To O-Ring O-Ring
7	GD16188	1	Valve Block
8	GA11934	1	Relief Valve Cartridge
9	G10809 G10229	2 2	Hex Head Cap Screw, 3⁄8"-16 x 3 1⁄4" Lock Washer, 3⁄8"
10	GD11700	1	Adapter, 1⁄4" NPT To 3⁄8" Barb
11	G10681	1	Hose Clamp, No. 6
12	GD6279-05	1	Clear Plastic Tubing, 9⁄16" O.D. x 60"

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(METR34bb)

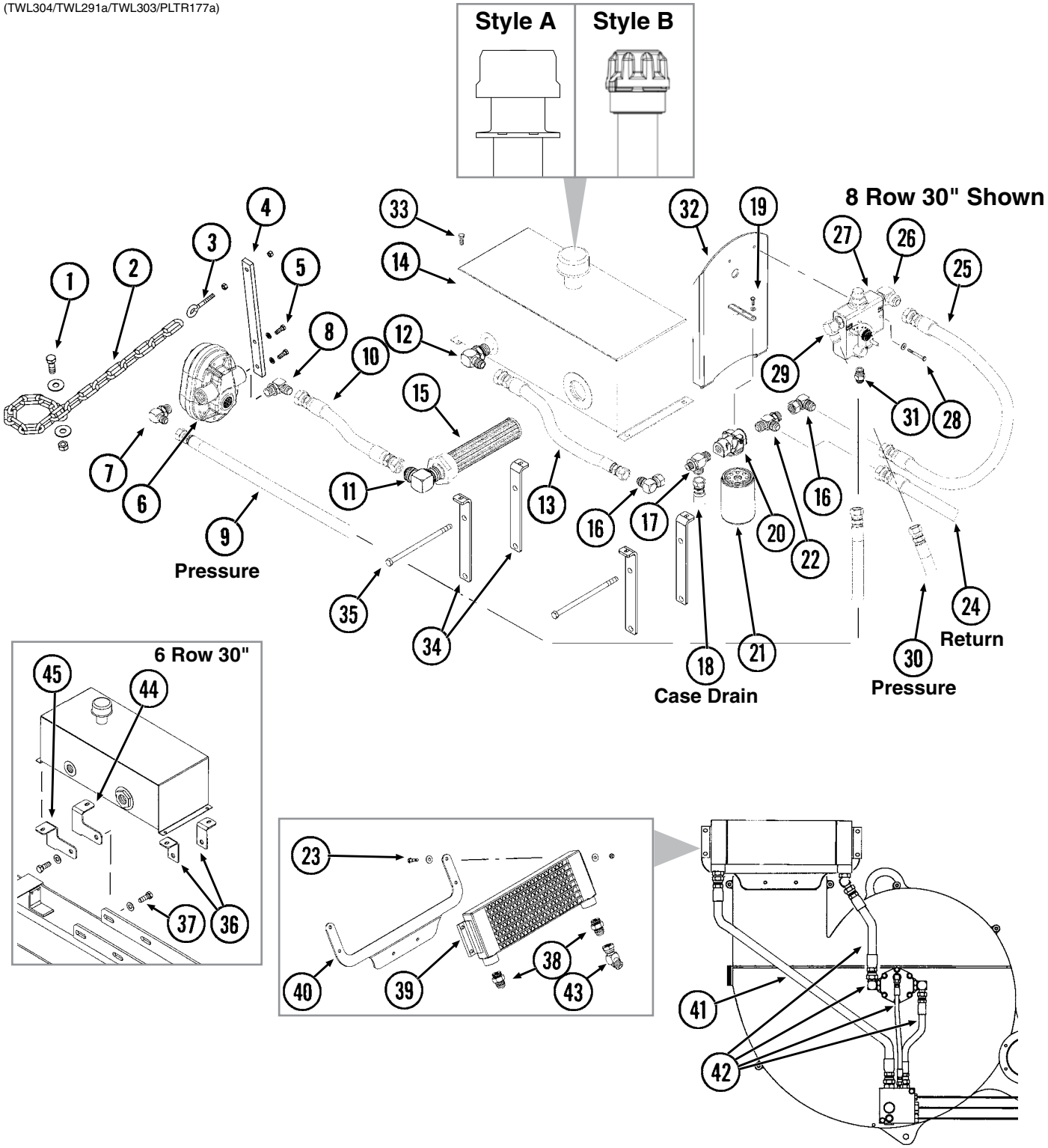


ITEM	PART NO.	QTY.	DESCRIPTION
1	G10338	-	Carriage Bolt, 5⁄16"-18 x 1¼"
	G10620	-	Serrated Flange Nut, 5⁄16"-18
2	GD16156	1	Bracket
3	GD15799	2-4	Manifold, 21" (Open Both Ends)
4	G11137	4	T-Bolt Clamp, 4¼", Stainless Steel
5	G11145	7-11	T-Bolt Clamp, 7"
6	GD11721	-	U-Bolt, 5" x 7" x ½"-13
	G10228	-	Lock Washer, ½"
	G10102	-	Hex Nut, ½"-13
7	GD15791-03	1	Hose, 4" x 46"
8	GA11298	1	Manifold, 11"

ITEM	PART NO.	QTY.	DESCRIPTION
9	GD15791-06	1	Hose, 4" x 40"
10	GA11301	1	Fan Mount
11	GD15854	5-7	Clamp
12	GA11023	5-7	Manifold Stand
13	GD15850	3	Manifold, 21" (Open One End)
14	G10036 G10107	1 1	Hex Head Cap Screw, ⅝"-11 x 4" Lock Nut, ⅝"-11
15	G11147	-	Cap, 2"
16	GD14626	6-8	Elbow, 90°, 2"
17	GD15856-01	2-4	Pipe, 6" x 14"
18	*D15792-14 *D15792-09 *D15792-10 *D15792-13	- - - -	Hose, 2" x 46" (Pull Row Units) Hose, 2" x 30" (Push Row Units) Hose, 2" x 60" (Push Row Units) Hose, 2” x 50” (Center 4 Row Pull Row Units)
19	---	-	See “Digital Vacuum Gauge, Analog Vacuum Gauge, and Vacuum Fan Assembly” on page P51
20	G11387	2	Flat Washer, ⅜" SAE
21	GA10812	1	Manifold, 14"
22	GD16154	2	Stiffener
23	GD16155	2	Support
24	G10171 G11386 G10232 G10106	2 2 2 2	Hex Head Cap Screw, 5⁄16"-18 x 1¼" Flat Washer, 5⁄16" SAE Lock Washer, 5⁄16" Hex Nut, 5⁄16"-18
25	G10001 G10229 G11387	1 1 1	Hex Head Cap Screw, ⅜"-16 x 1" Lock Washer, ⅜" Flat Washer, ⅜" SAE
26	GA11295	1	Fan Strut
27	GD16251	2	Gasket
28	G10023 G10110	12 12	Hex Head Cap Screw, ¼"-20 x ¾" Lock Nut, ¼"-20, Grade B
29	GA11296	2	Outlet, 4"
30	G10830 G10107	2 2	Hex Head Cap Screw, ⅝"-11 x 7½" Lock Nut, ⅝"-11
31	GD3180-27 GD3777-10 GD3777-11	2 2 2	Sleeve, ⅝" I.D. x ⅞" O.D. x 2¼" Long Sleeve, 1¾" x 3⅛" Sleeve, 1¾" x 2½"
32	GA5121	2	Pin, 2⅛"
33	G10581 G10228	2 2	Hex Head Cap Screw, ½"-13 x 2¼" Lock Washer, ½"
34	G10862 G10230	1 1	Hex Head Cap Screw, ⅝"-11 x 3¼" Lock Washer, ⅝"
35	GD3180-28	1	Sleeve, ⅝" I.D. x ⅞" O.D. x 2¼" Long
36	G10676	-	Hose Clamp, No. 36, Stainless Steel
37	GB0827	6-8	Vacuum Reducer, 2" to 1¾"
38	GD15792-18	-	Vacuum Hose, 2” x 50’

*Hose not stocked by Kinze repair parts, but is available in bulk (GD15792-18).

(TWL304/TWL291a/TWL303/PLTR177a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10005 G10217 G10107	1 2 1	Hex Head Cap Screw, 5/8"-11 x 1¾" Washer, 5/8" USS Lock Nut, 5/8"-11
2	G3302-09	1	Coil Chain, No. 9/0, 17 Links
3	GD16035 G10101	1 2	Eyebolt, 3/8"-16 x 4" Hex Nut, 3/8"-16
4	GD16036	1	Anti-Rotation Bracket
5	G10001 G10229	2 2	Hex Head Cap Screw, 3/8"-16 x 1" Lock Washer, 3/8"
6	GA10919 GA14446	1 -	PTO Pump (1⅜" spline) PTO Pump (1⅜" or 1¾" spline) (Seal Kit - GR2025)
7	G6801-10-12 GR1467	1 -	Elbow W/O-Ring, 90°, 7/8"-14 Male JIC To 1 1/16"-12 O-Ring O-Ring
8	G6801-16 G6801-16-20 GR1786	1 - -	Elbow W/O-Ring, 90°, 1 5/16"-12 Female JIC To O-Ring (Used with GA10919 PTO Pump) Elbow W/O-Ring, 90°, 1 5/16"-12 Female JIC To O-Ring (Used with GA14446 PTO Pump) O-Ring
9	*A1462 *A1465	1 -	Hose Assembly, ½" x 78", 6 Row 30" Hose Assembly, ½" x 84", 8 Row 30"
10	*A6201 *A6206	1 -	Hose Assembly, 1" x 72", 6 Row 30" Hose Assembly, 1" x 56", 8 Row 30"
11	G2501-16-20	1	Elbow, 90°, 1 5/16"-12 Male JIC To 1¼" NPT
12	G2501-12-16	1	Elbow, 90°, 1 1/16"-12 Male JIC To 1" NPT
13	*A3371	1	Hose Assembly, ¾" x 25"
14	GA12802 GR1834 GR2218	1 -	Reservoir W/Breather, 10 Gallon Raised Filler Breather, Style A Breather Cap, Style B
15	GD16040	1	Strainer
16	G6500-12	2	Swivel Elbow, 90°, 1 1/16"-12 Male JIC To Female
17	G6804-12-12-08 GR1467	1 -	Adjustable Tee W/O-RIng, 1 1/16"-12 Male JIC To 1 1/16"-12 Male O-Ring To ¾"-16 O-Ring
18	*A3278 *A3370	1 -	Hose Assembly, ⅜" x 70", 6 Row 30" Hose Assembly, ⅜" x 80", 8 Row 30"
19	G10023 G10227	2 2	Hex Head Cap Screw, ¼"-20 x ¾" Lock Washer, ¼"
20	GD16038	1	Filter Head
21	GD16037	1	Oil Filter, 10 Micron
22	G6804-12 GR1467	1 -	Adjustable Tee W/O-Ring, 1 1/16"-12 Male JIC To O-Ring O-Ring
23	G10171 G11386 G10109	4 8 4	Hex Head Cap Screw, 5/16"-18 x 1¼" Flat Washer, 5/16" SAE Lock Nut, 5/16"-18, Grade 8
24	*A3372 *A3377	1 -	Hose Assembly, ¾" x 68", 6 Row 30" Hose Assembly, ¾" x 104", 8 Row 30"
25	*A3351	1	Hose Assembly, ¾" x 20"
26	G6801-12-10 GR1466	1 -	Elbow W/O-Ring, 90°, 1 1/16"-12 Male JIC To 7/8"-14 O-Ring O-Ring
27	GA10918	1	Flow Control Valve
28	G10403 G11385 G10110	2 4 2	Hex Head Cap Screw, ¼"-20 x 2½" Flat Washer, ¼" SAE Lock Nut, ¼"-20, Grade B

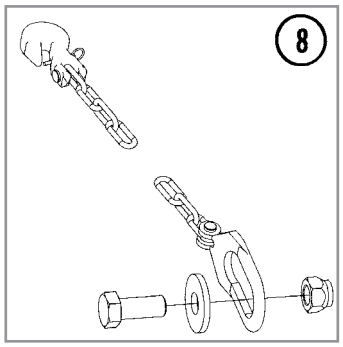
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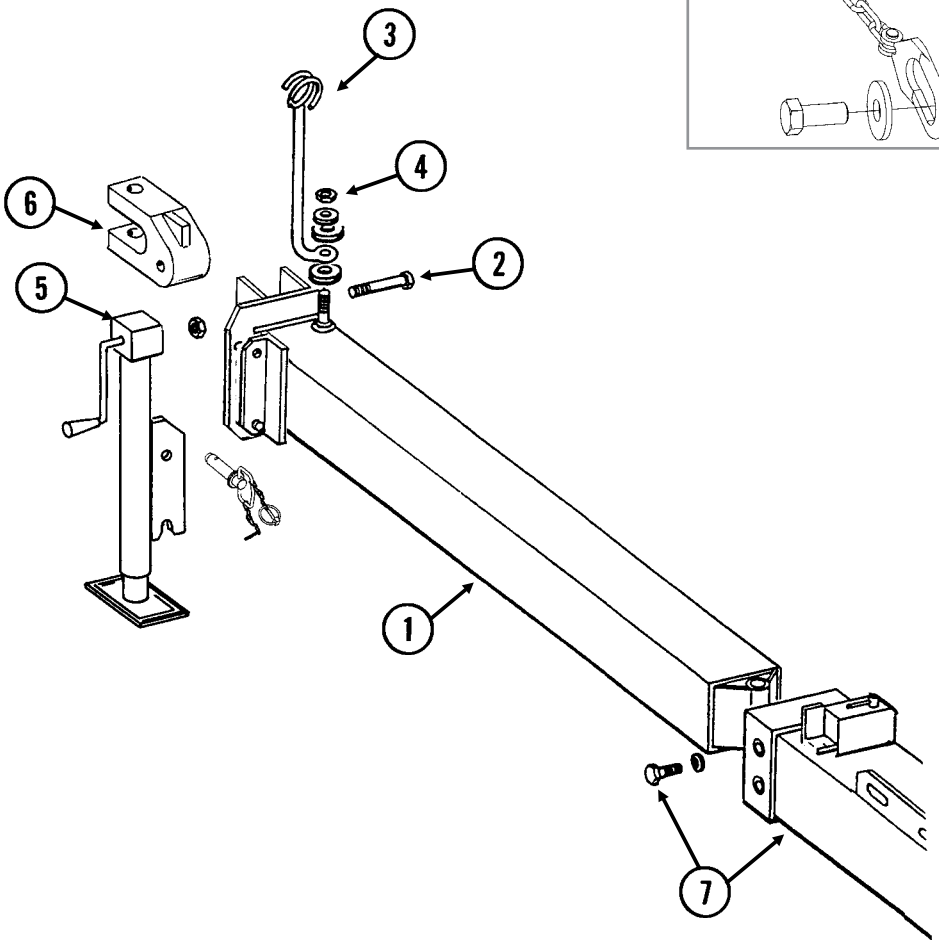
ITEM	PART NO.	QTY.	DESCRIPTION
29	G6801-10 GR1466	1 -	Elbow W/O-Ring, 90°, ⅞"-14 Male JIC To O-Ring O-Ring
30	*A8280 *A8279	1 -	Hose Assembly, ½" x 54", 6 Row 30" Hose Assembly, ½" x 80", 8 Row 30"
31	G6400-10 GR1466	1 -	Connector W/O-Ring, ⅞"-14 Male JIC To O-Ring O-Ring
32	GA11523	1	Mounting Bracket
33	G10001 G11387 G10108	2 4 4	Hex Head Cap Screw, ⅜"-16 x 1" Flat Washer, ⅜" SAE Lock Nut, ⅜"-16
34	GD16034	4	Bracket, 10 ¼", 8 Row 30"
35	G11109 G10228 G10102	4 4 4	Hex Head Cap Screw, ½"-13 x 7½" Lock Washer, ½" Hex Nut, ½"-13
36	GD16640	2	Bracket, 6 Row 30"
37	G10005 G11391 G10230 G10104	4 4 4 4	Hex Head Cap Screw, ⅝"-11 x 1¾" Flat Washer, ⅝" SAE Lock Washer, ⅝" Hex Nut, ⅝"-11
38	G6400-12 GR1467	2 -	Connector W/O-Ring, 1 1⁄16"-12 Male JIC To O-Ring O-Ring
39	GA10917	1	Oil Cooler
40	GD16608	1	Bracket
41	*A3369	1	Hose Assembly, ¾" x 40"
42	---	-	See “Vacuum Fan Hydraulic Components” on page P53
43	G6502-12	1	Swivel Elbow, 45°, 1 1⁄16"-12 Male JIC To Female
44	GD16612	1	Mount, R.H.
45	GD16613	1	Mount, L.H.

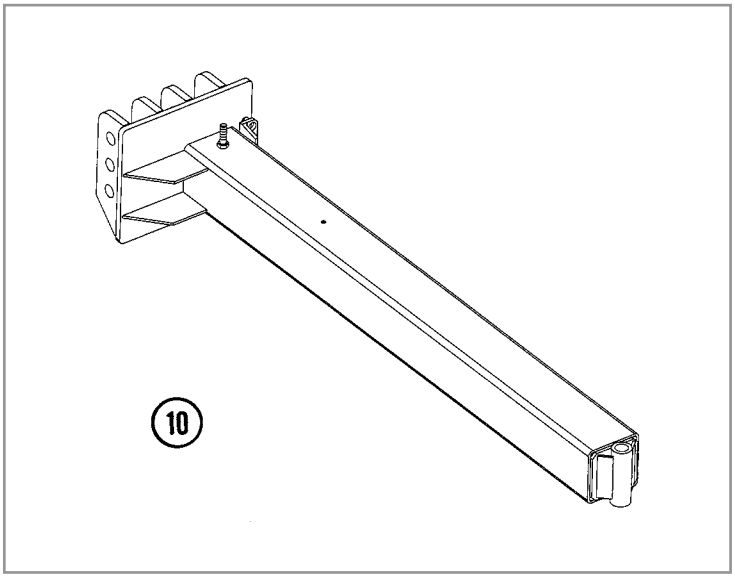
***Hydraulic hose is not stocked by Kinze Repair Parts.**

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PHA021/PHA025(A13595/TWL48c/A10709a)

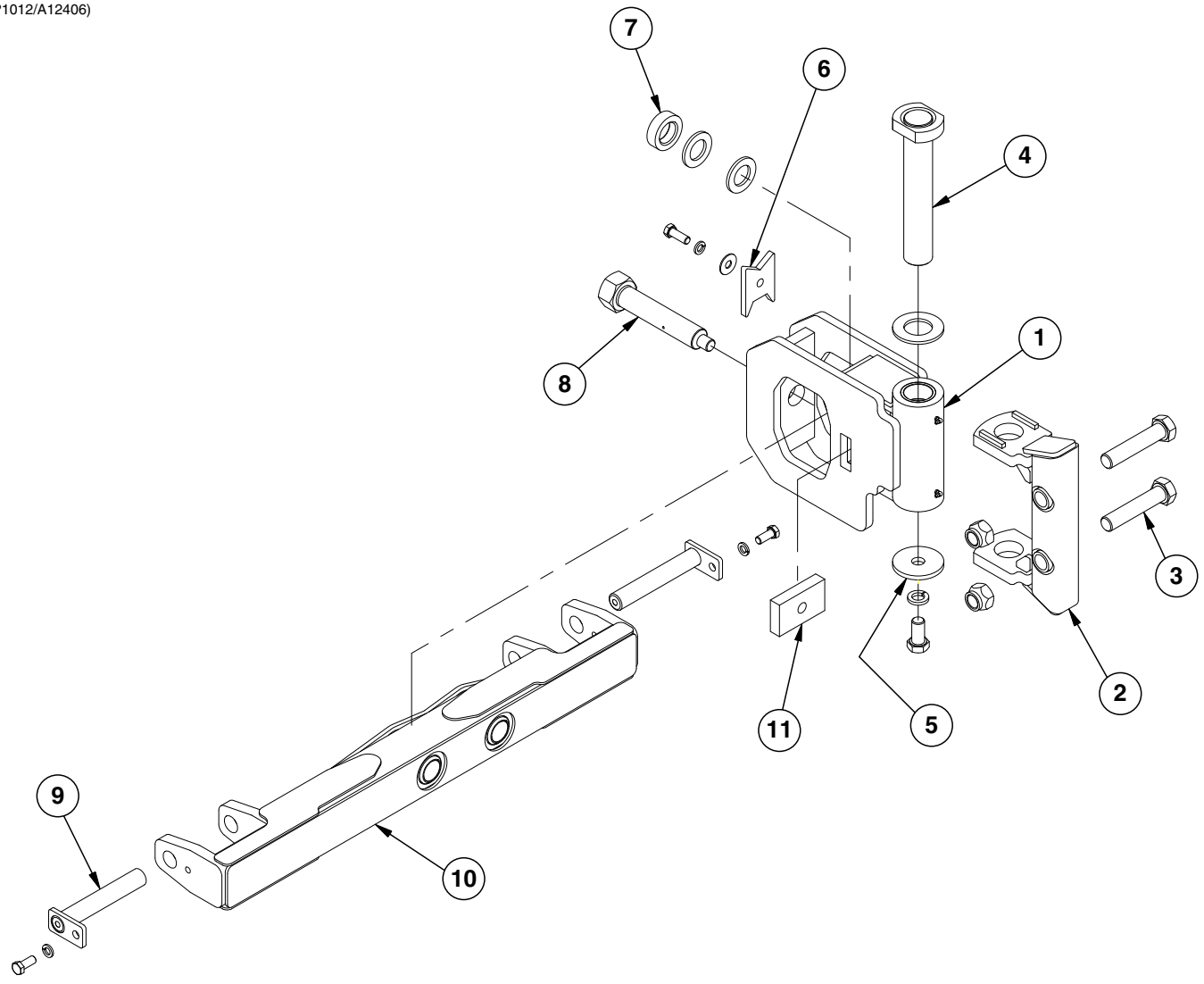






ITEM	PART NO.	QTY.	DESCRIPTION
1	GA8699	1	Inner Hitch, 65¼"
2	G10169 G10157	1 1	Hex Head Cap Screw, 1¼"-7 x 6" Lock Nut, 1¼"-7
3	GD16328	1	Hose Holder
4	G10217 G10230 G10104	2 1 1	Washer, ⅝" USS Lock Washer, ⅝" Hex Nut, ⅝"-11
5	GA13986 GA4995 GR0516 GR0515	1 - - -	Jack Assembly Complete Detent Pin Assembly Crank Assembly Bevel Gear Set, Includes: (2) Bevel Gears, (1) Gear Pin, (1) Groove Pin
6	GB0156	1	Clevis
7	---	-	See “Outer Hitch” on page P69
8	G9566X	1	⅜” Transport Safety Chain Package, Includes: (1) ⅜” Safety Chain W/Hook, (1) Hex Head Cap Screw, (1) Lock Nut, (1) Washer, (1) Instruction Sheet
9	---	-	---
10	GA10709	1	Inner Hitch, 65¼", 7½" Offset

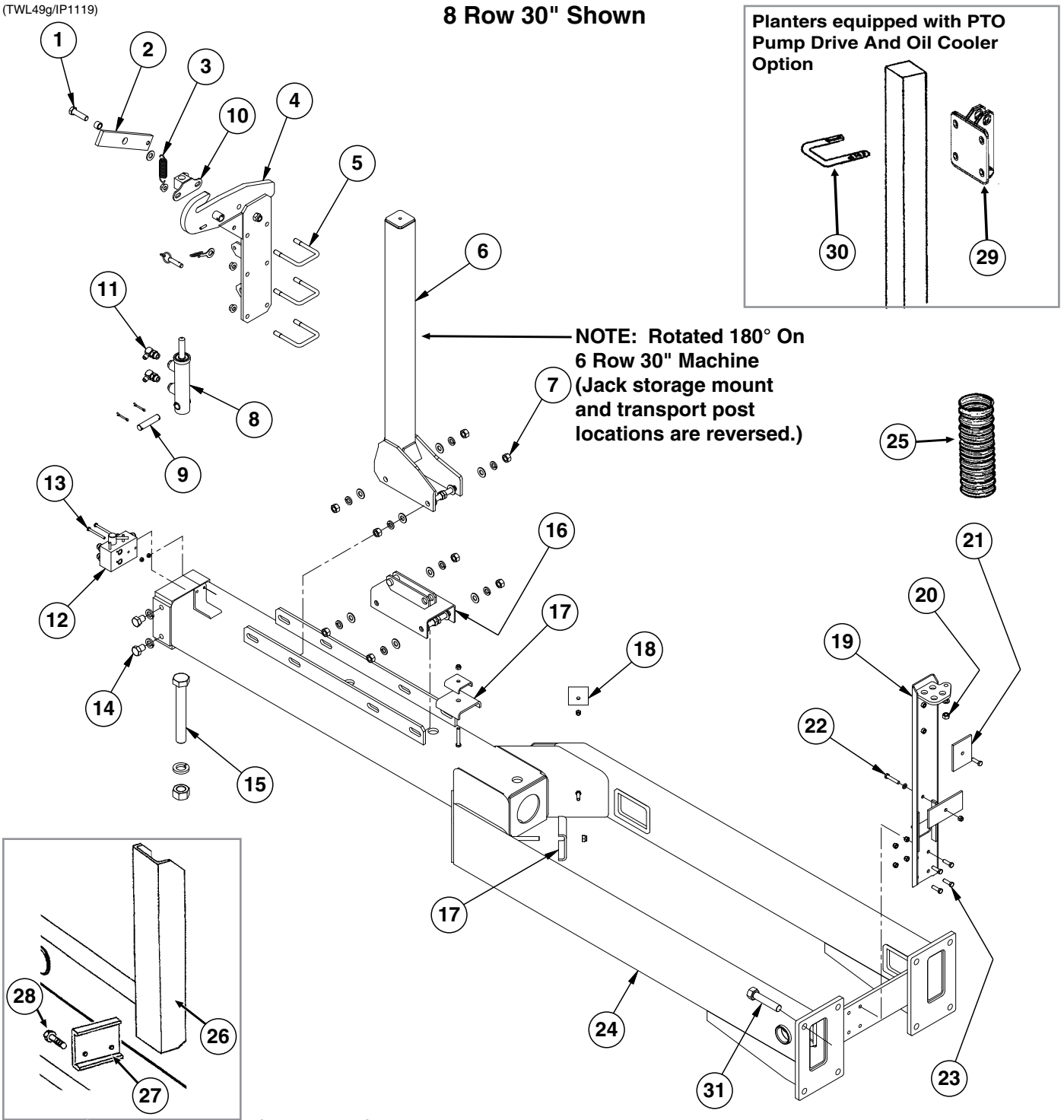
(IP1012/A12406)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA13665	1	Hitch Pivot
2	GA13783	1	Pivot Mount
3	G10169	2	Hex Head Cap Screw, 1¼"-7 x 6"
	G10157	2	Lock Nut, 1¼"-7
4	GA12163	1	Pin, 13⅜"
	GD15725	1	Washer, 4" O.D. x 2¼" I.D. x ¼"
5	GD17245	1	Washer, 4" O.D. x 1 1/32" I.D. X ⅜"
	G11223	1	Hex Head Cap Screw, 1"-8 x 2"
	G10118	1	Lock Washer, 1"
6	GD15100	1	Pivot Lock
	G10230	1	Lock Washer, ⅝"
	G10217	1	Washer, ⅝" USS
	G10005	1	Hex Head Cap Screw, ⅞"-11 x 1¾"
7	GD16226	1	Sleeve, 3" O.D. x 1 25/32" x 29/32" Thick
	GD16303	2	Washer, 3" O.D. x 1 25/32" x ¼" Thick
8	GA13673	1	Pivot Pin
9	GA11079	2	Hammer Strap, Category 3 And 3N
	G10007	2	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	2	Lock Washer, ⅝"
10	GA12164	1	Hitch Bar
11	GD19468	1	Tapped Bar

(TWL49g/IP1119)

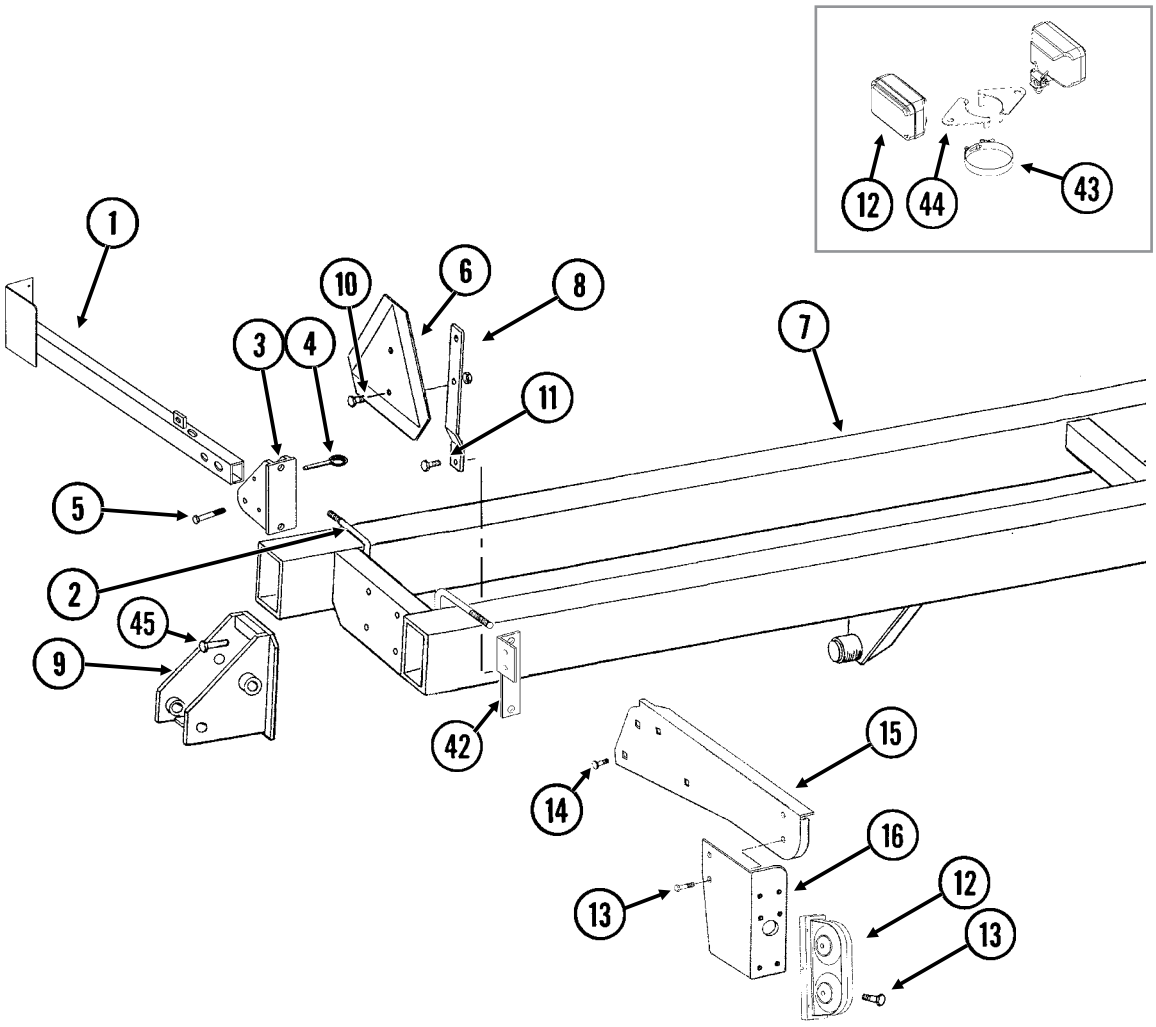
8 Row 30" Shown



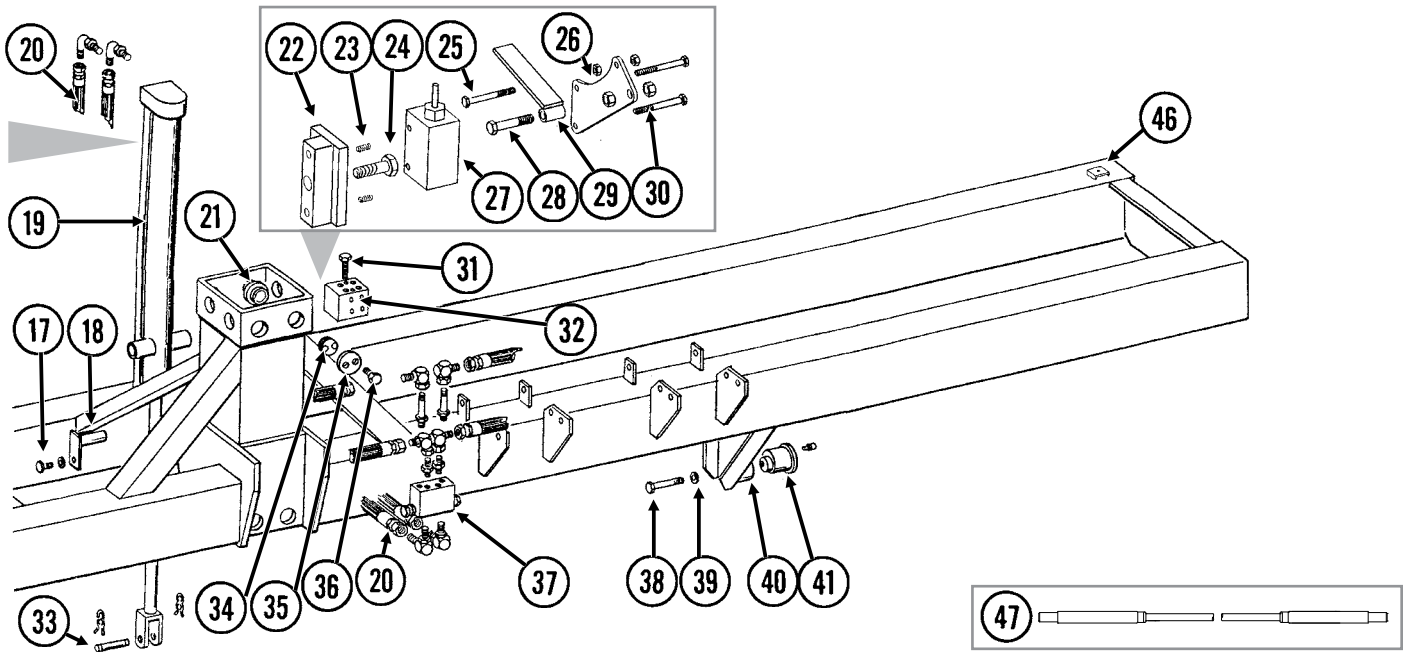
ITEM	PART NO.	QTY.	DESCRIPTION
1	G10006	1	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
	GB0218	1	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
	G10107	1	Lock Nut, 5/8"-11
2	GA6422	1	Catch Bar
	GD7805	1	Special Washer, 5/8", Hardened
3	GD5857	1	Spring
4	GA6420	1	Transport Catch
	G10765	1	Spring Pin, 1/4" x 1"

ITEM	PART NO.	QTY.	DESCRIPTION
5	GD4743	3	U-Bolt, 3" x 3" x ½"-13
	GA7022	1	Detent Pin W/Chain
	G10071	6	Serrated Flange Nut, ½"-13
6	GA6623	1	Transport Post, 6 Row 30"
	GA6418		Transport Post, 8 Row 30" (Shown)
7	G10104	4	Hex Nut, ⅝"-11
	G10230	4	Lock Washer, ⅝"
	G10005	4	Hex Head Cap Screw, ⅝"-11 x 1¾"
	GD7805	4	Special Washer, ⅝", Hardened
8	GA9559	1	See “Transport Latch Cylinder, All Sizes” on page P95
9	GD7137	1	Pin, ¾" x 3⅜"
	G10457	2	Cotter Pin, 5/32" x 1½"
10	GA21728	1	Rod Guide
11	G6801-06-08	2	Elbow W/O-Ring, 90°, 9/16"-18 Male JIC To ¾"-16 O-Ring
	GR1037		O-Ring
12	GA6625	1	See “Selector Valve” on page P100
13	G10746	2	Hex Head Cap Screw, ¼"-20 x 2¾"
	G10110	2	Lock Nut, ¼"-20, Grade B
14	G10716	2	Hex Head Cap Screw, ¾"-10 x 1"
	G10231	2	Lock Washer, ¾"
15	G10717	1	Hex Head Cap Screw, 1¼"-7 x 9"
	G10239	1	Hex Nut, 1¼"-7
	G10236	1	Lock Washer, 1¼"
16	GA6404	1	Jack Storage Mount
	G10104	4	Hex Nut, ⅝"-11
	G10230	4	Lock Washer, ⅝"
	G10005	4	Hex Head Cap Screw, ⅝"-11 x 1¾"
17	GD0740	2	Hose Clamp, ¾" x 4" x 3½"
	G10111	1	Lock Nut, ½"-13
18	GD5875	2	Hose Clamp, 9/16" x 2½" x 2"
	G10108	3	Lock Nut, ⅜"-16
19	GA11201	1	Hose Support
20	G10102	1	Hex Nut, ½"-13
	G10228	1	Lock Washer, ½"
	GA6608	1	Cable Assembly
21	GD9046	1	Hose Clamp, 3 ¼" x 4"
	G10104	1	Hex Nut, ⅝"-11
22	G10048	1	Hex Head Cap Screw, ⅜"-16 x 2"
	GD16341	1	Hose Clamp, 3¾" x 6"
	G10229	1	Lock Washer, ⅜"
23	G10004	4	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G10108	4	Lock Nut, ⅜"-16
24	GA6371	1	Outer Hitch, 125½"
25	GD9129-01	1	Hose Protector, 48"
26	GD14106	1	Channel (If Applicable)
27	GD10731	1	Wire Clamp (If Applicable)
28	G10004	2	Hex Head Cap Screw, ⅜"-16 x 1¼" (If Applicable)
	G10108	2	Lock Nut, ⅜"-16 (If Applicable)
29	GA11528	-	Bracket
30	GD16642	2	U-Bolt, 3" x 4" x ½"-13
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
31	G10027	8	Hex Head Cap Screw, ¾"-10 x 2½"
	GD2169	8	Special Washer, 25/32" I.D. x 1¼" O.D., Hardened
	G10105	8	Hex Nut, ¾"-10

(TWL50e/A9689b/TWL51bb)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA9840	1	Light Bracket
2	GD1113 G10230 G10104	2 4 4	U-Bolt, 5" x 7" x ⅝"-11 Lock Washer, ⅝" Hex Nut, ⅝"-11
3	GB0309	1	Light Mount Bracket
4	G10874	1	Detent Pin, ½" x 3½" Grip
5	G10033 G10206 G10111	1 4 1	Hex Head Cap Screw, ½"-13 x 3½" Washer, ½" SAE Lock Nut, ½"-13
6	---	-	See “Decals, Paint, and Miscellaneous” on page P149
7	A6401 A9402 A6364 A9401	- - - -	Frame, 180", 6 Row 30" **(Non-Stock Item)** Frame, 188", 6 Row 30" **(Non-Stock Item)** Frame, 240", 8 Row 30" **(Non-Stock Item)** Frame, 248", 8 Row 30" **(Non-Stock Item)**
8	GD6783	1	Bracket
9	---	-	See “Row Marker Assembly, Two-Fold Low Profile, 6 Row 30”” on page P87 See “Row Marker Assembly, Two-Fold Low Profile, 8 Row 30”” on page P89
10	G10064 G10621	2 2	Hex Head Cap Screw, ¼"-20 x 1" Serrated Flange Nut, ¼"-20

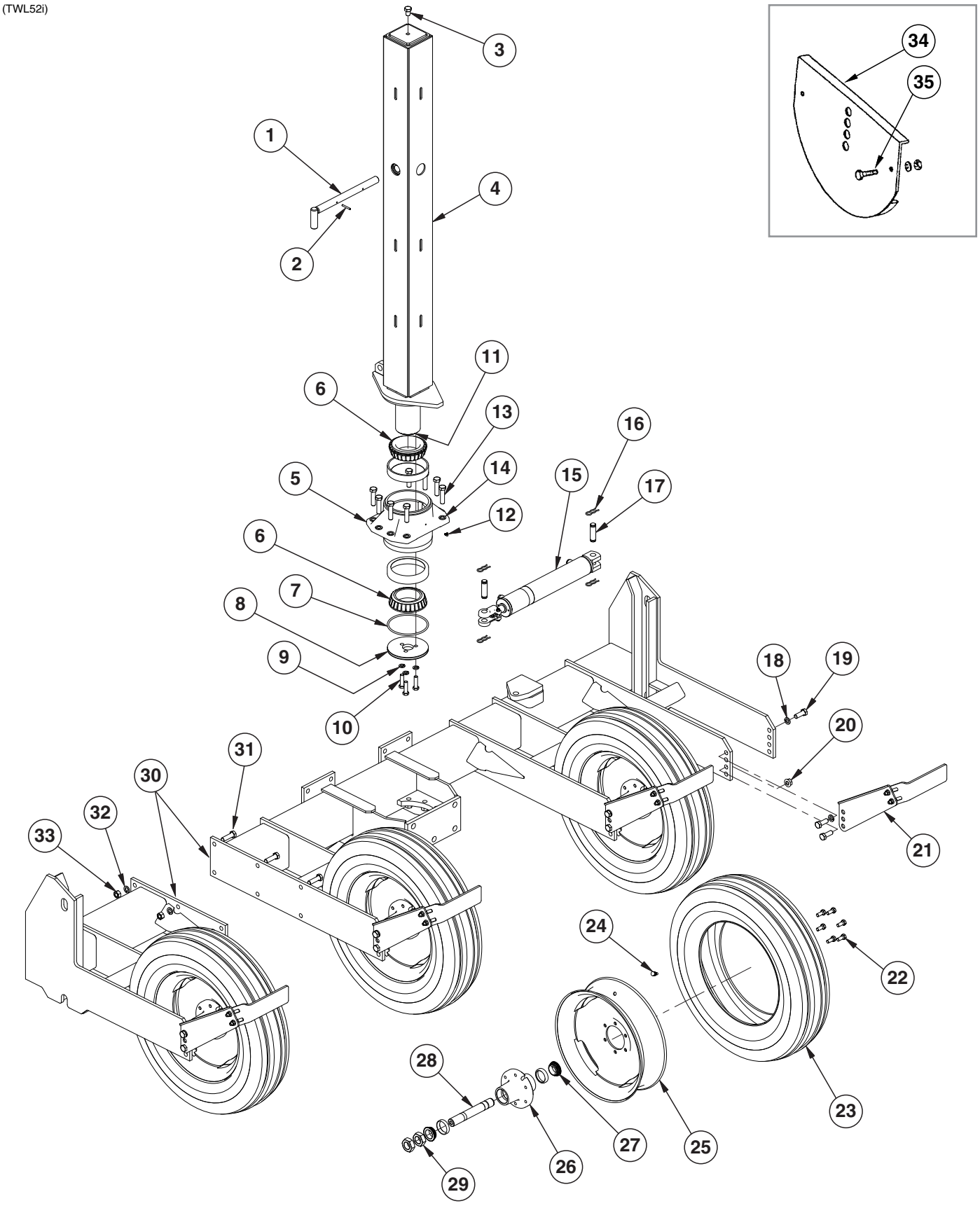


ITEM	PART NO.	QTY.	DESCRIPTION
11	G10004 G11091	2 2	Hex Head Cap Screw, ⅜"-16 x 1¼" Serrated Flange Nut, ⅜"-16
12	---	-	See “Electrical Components” on page P105
13	G10064 G10227 G10103 G10110	- - - -	Hex Head Cap Screw, ¼"-20 x 1" Lock Washer, ¼" Hex Nut, ¼"-20 Lock Nut, ¼"-20, Grade B
14	G10305 G11091	2-4 2-4	Carriage Bolt, ⅜"-16 x 1" Serrated Flange Nut, ⅜"-16
15	GD15950	1	Light Mount Extension
16	GD12724	1	Bracket
17	G10037 G10228 G10102	2 2 2	Hex Head Cap Screw, ½"-13 x 1¼" Lock Washer, ½" Hex Nut, ½"-13
18	GA5121	2	Pin, 2⅛"
19	---	-	See “Lift Cylinder” on page P97
20	---	-	See “Planter Hydraulic System” on page P103
21	GD34081	16	Poly Wear Pad
22	GA6850	1	Valve Mount
23	G10120	2	Hex Socket Set Screw, ⅜"-16 x ½"
24	G10005	1	Hex Head Cap Screw, ⅝"-11 x 1¾"
25	G10638 G10103	1 2	Hex Head Cap Screw, ¼"-20 x 2" Hex Nut, ¼"-20
26	GD10129	1	Mounting Bracket
27	---	-	See “Stroke Limiter Valve” on page P100
28	G10048 G10101	1 2	Hex Head Cap Screw, ⅜"-16 x 2" Hex Nut, ⅜"-16
29	GA7153	1	Stroke Limiter Arm
30	G10403 G10227	2 2	Hex Head Cap Screw, ¼"-20 x 2½" Lock Washer, ¼"

ITEM	PART NO.	QTY.	DESCRIPTION
31	G10172 G10108	2 2	Hex Head Cap Screw, ⅜"-16 x 5" Lock Nut, ⅜"-16
32	GD9971	1	Manifold Block
33	GR0375 GR0193	1 2	Pin, 1" x 3½" Hair Pin Clip
34	GB0234	16	Adjustment Plug
35	GB0230	16	Cap
36	G10014	32	Hex Head Cap Screw, ½"-13 x 1"
37	---	-	See “Row Marker Sequencing/Flow Control Valve” on page P101
38	G10026 G10231	2 2	Hex Head Cap Screw, ¾"-10 x 2" Lock Washer, ¾"
39	GB0409	2	Spring Washer
40	GD10532	2	Sleeve
41	GA6497 G10640	2 -	Cam Follower W/Grease Fitting Grease Fitting, ¼"-28
42	GD13250	1	SMV Bracket
43	G11159	1-2	T-Bolt Clamp, 3½" Stainless Steel
44	GD16046	2	Bracket, 4¼" x 4"
45	G10006 G10230 G10104	4 4 4	Hex Head Cap Screw, ⅝"-11 x 2¼" Lock Washer, ⅝" Hex Nut, ⅝"-11
46	GD5875 G10108	1 1	Hose Clamp, 9⁄16" x 2½" x 2" Lock Nut, ⅜"-16
47	GA6608	-	Cable Assembly

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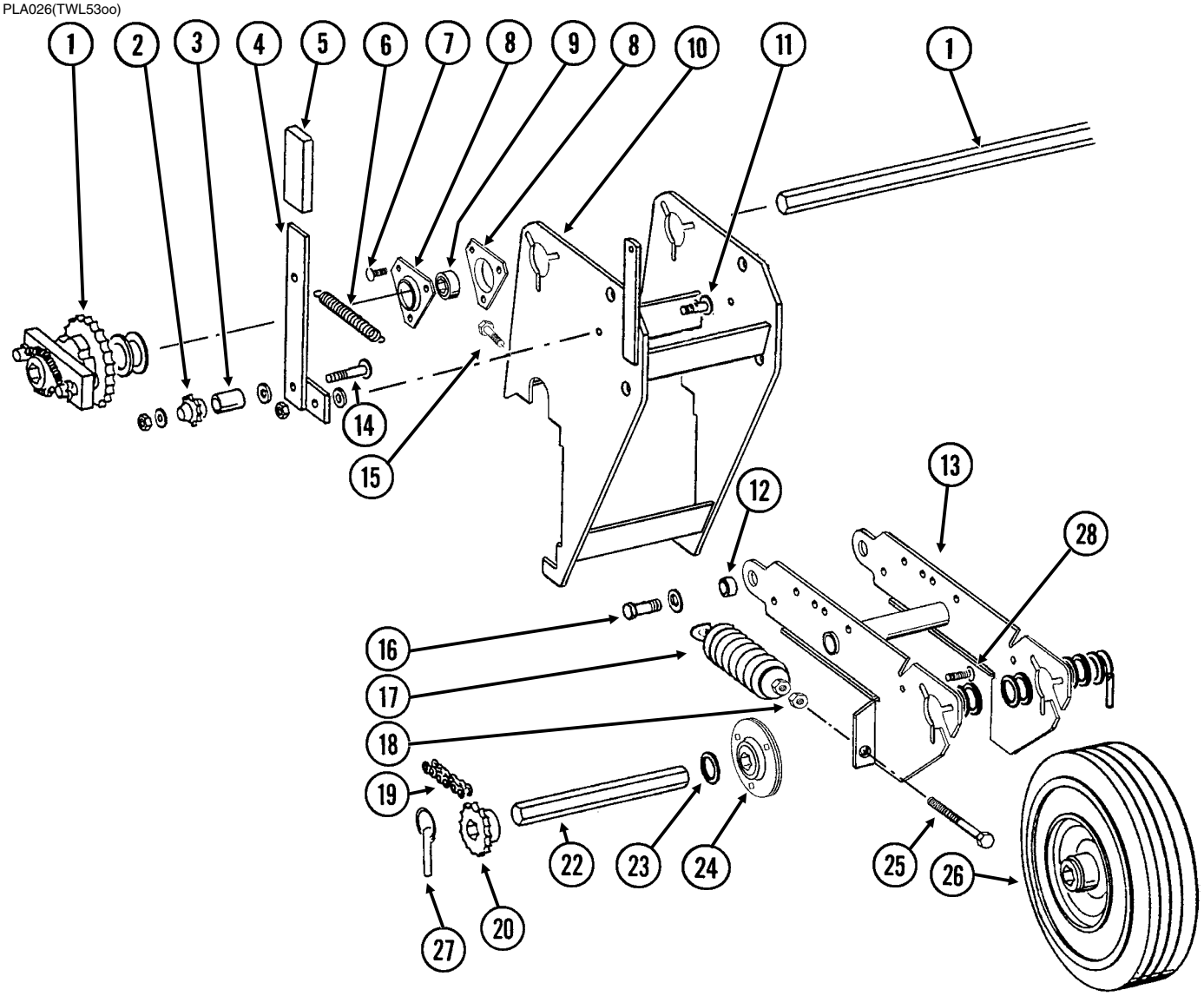
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ITEM	PART NO.	QTY.	DESCRIPTION
1	GA6849	1	Safety Lockup Pin
2	G10606	1	Spring Pin, ¼" x 2"
	G10671	1	Slotted Spring Pin, 3⁄16" x 3¼"
3	G10716	1	Hex Head Cap Screw, ¾"-10 x 1"
4	GA7543	1	Center Post
5	GA6496	1	Bearing Housing W/Cups, Less Grease Fitting
	GD9121	-	Cup (Included W/GA6496)
6	GA6435	2	Bearing
7	GD9130	1	O-Ring
8	GD9051	1	Bearing Cap
9	G11391	3	Flat Washer, ⅝" SAE
10	G10006	3	Hex Head Cap Screw, ⅝"-11 x 2¼"
11	GD9124	4	Shim, .020" Thick (As Required)
	GD9123	4	Shim, .007" Thick (As Required)
	GD9122	4	Shim, .005" Thick (As Required)
12	G10779	1	Grease Fitting, 90°, ¼"-28
13	G10810	8	Hex Head Cap Screw, ¾"-10 x 3½", Grade 8
	G10105	8	Hex Nut, ¾"-10
14	GD2169	16	Special Washer, 25⁄32" I.D. x 1¼" O.D., Hardened
15	GA8911	1	See “Rotation Cylinder” on page P95
16	GR0193	4	Hair Pin Clip
17	GR0375	2	Pin, 1" x 3½"
18	G10231	8	Lock Washer, ¾"
19	G10026	12	Hex Head Cap Screw, ¾"-10 x 2"
20	G11314	4	Serrated Flange Nut, ¾"-10
21	GA24561	4	Mud Scraper Assembly
	G10636	2	Carriage Bolt, ½"-13 x 1½" (Included W/GA24561)
	G10071	2	Serrated Flange Nut, ½"-13 (Included W/GA24561)
	GD34178	1	Slotted Scrapper (Included W/GA24561)
	GD20456	1	Short Scraper Arm (Included W/GA24561)
22	GR0270	24	Lug Bolt, 9⁄16"-18
23	GD13401	1	Tire, 7.50" x 20", 8 Ply, Tubeless W/O Center Rib (Specify Brand*)
24	GA7434	1	Valve Stem
25	GA14413	1	Rim, 5.50" x 20"
26	GA2148	1	Hub W/Cups, 6 Bolt
	GR0434	-	Cup (Included W/GA2148)
27	GA0895	2	Bearing
28	GA4693	1	Spindle, W/Round External Retaining Ring, 10½"
	GD11490	-	Round External Retaining Ring (Included W/GA4693)
29	G11081	2	Hex Jam Nut, 1½"-12, Grade 2
30	GA17063	1	Axle W/Stub (Domestic)
	GA17067	-	Axle W/Stub (Export)
	GA17066	-	Stub Axle
31	G10027	6	Hex Head Cap Screw, ¾"-10 x 2½"
32	G10231	6	Lock Washer, ¾"
33	G10105	6	Hex Nut, ¾"-10
34	GA6529	-	Rock Guard (Optional)
35	G10037	-	Hex Head Cap Screw, ½"-13 x 1¼"
	G10228	-	Lock Washer, ½"
	G10102	-	Hex Nut, ½"-13
	G10026	-	Hex Head Cap Screw, ¾"-10 x 2"
	G11314	-	Serrated Flange Nut, ¾"-10
A	GA14412	4	Tire and Rim Assembly (Specify Brand*) (Items 23-25)
B	GA6428	4	Hub And Spindle Assembly (Items 26-29)

***Specific brand requests will be supplied only as available from current Kinze Repair Parts stock. If a specific brand requested is not in stock, the brand available will be supplied. Different brand tires may have different diameters. Change in tire brand may affect rates. Field checks are recommended after any change in contact tires.**

PLA026(TWL5300)

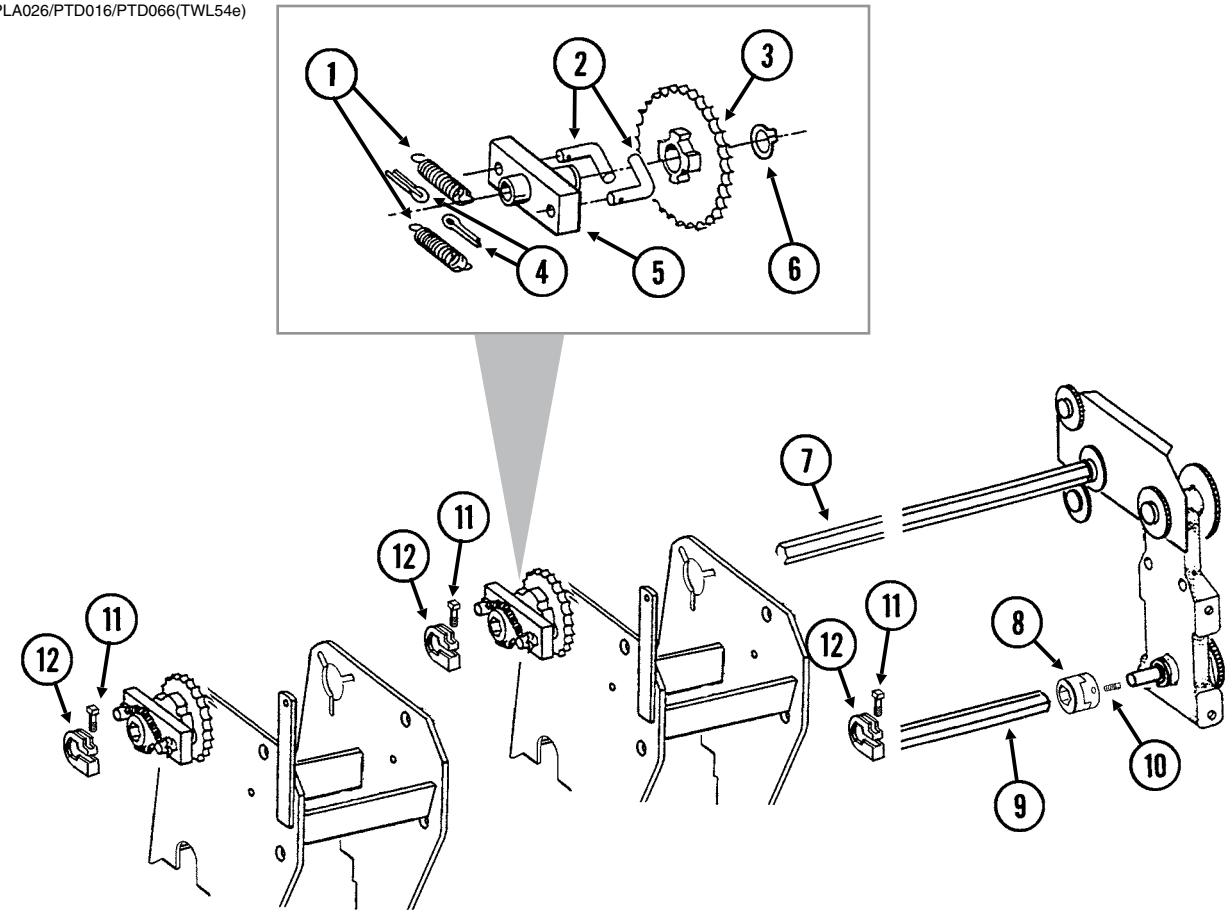


ITEM	PART NO.	QTY. (Per Wheel)	DESCRIPTION
1	---	-	See “Driveline” on page P79
2	GD7426	1	Sprocket, 12 Tooth
3	GD1026	1	Sleeve, 1 3/16" Long
4	GA5157	1	Idler Arm, L.H.
5	GD5827	1	Cover
6	GD5857	1	Spring
7	G10303 G10620	3 3	Carriage Bolt, 5/16"-18 x 1" Serrated Flange Nut, 5/16"-18
8	G3400-01	4	Flangette
9	G2100-03	2	Bearing, 7/8" Hex Bore, Spherical
10	GA8925	1	Mount
11	G10004 G10229 G10370 GD5756	1 1 1 1	Hex Head Cap Screw, 3/8"-16 x 1 1/4" Lock Washer, 3/8" Machine Bushing, 3/8", 22 Gauge Special Nut, 3/8"-16
12	GB0218	2	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long

ITEM	PART NO.	QTY. (Per Wheel)	DESCRIPTION
13	A7369	1	Wheel Arm **(Non-Stock Item)(Sub G1K253)**
14	G10306	1	Carriage Bolt, ⅜"-16 x 2"
	G11387	-	Flat Washer, ⅜" SAE (As Required)
	G10108	1	Lock Nut, ⅜"-16
15	G10004	2	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G10229	2	Lock Washer, ⅜"
	G10101	2	Hex Nut, ⅜"-16
16	G10751	2	Hex Head Cap Screw, ⅝"-18 x 1¾"
	G10235	6	Machine Bushing, ⅞", 14 Gauge
	G11391	2	Flat Washer, ⅝" SAE
	G10412	2	Lock Nut, ⅝"-18
17	GA2068	2	Spring W/Plug
18	G10501	2	Hex Jam Nut, ½"-13, Grade 2
19	G3310-116	1	Chain, No. 40, 116 Pitch Including Connector Link (Used With 15 And 19 Tooth Sprockets)
	G3310-124	1	Chain, No. 40, 124 Pitch Including Connector Link (Used With 30 Tooth Sprocket)
	GR0912	-	Connector Link, No. 40
20	GA5105	1	Sprocket, 15 Tooth
	GA5107	-	Sprocket, 19 Tooth
	GA5114	-	Sprocket, 30 Tooth
21	G10602	1	Spring Pin, ¼" x 1½"
22	GD6825-10.5	1	Hex Shaft, ⅞" x 10½" (2 Holes)
23	G10233	6	Machine Bushing, 1½" x 1/32", 10 Gauge
24	GA9846	-	Flanged Bearing, ⅞" Hex Bore
25	G10890	2	Hex Head Adjusting Bolt, ½"-13 x 4", Grade 2
26	GA5090	-	Tire And Rim Assembly (Specify Brand*)
	GD5753	1	Tire, 4.10" x 6" (Specify Brand*) (Included W/GA5090)
	GD5752	1	Inner Tube (Included W/GA5090)
27	GD2558	1	Lynch Pin, ¼"
28	G10303	-	Carriage Bolt, 5/16"-18 x 1"
	G10232	-	Lock Washer, 5/16"
	G10106	6	Hex Nut, 5/16"-18
A	G1K253	-	Contact Wheel Arm Replacement Kit (Items 13, 18, 21, 22, 24, 25, 27 And 28)

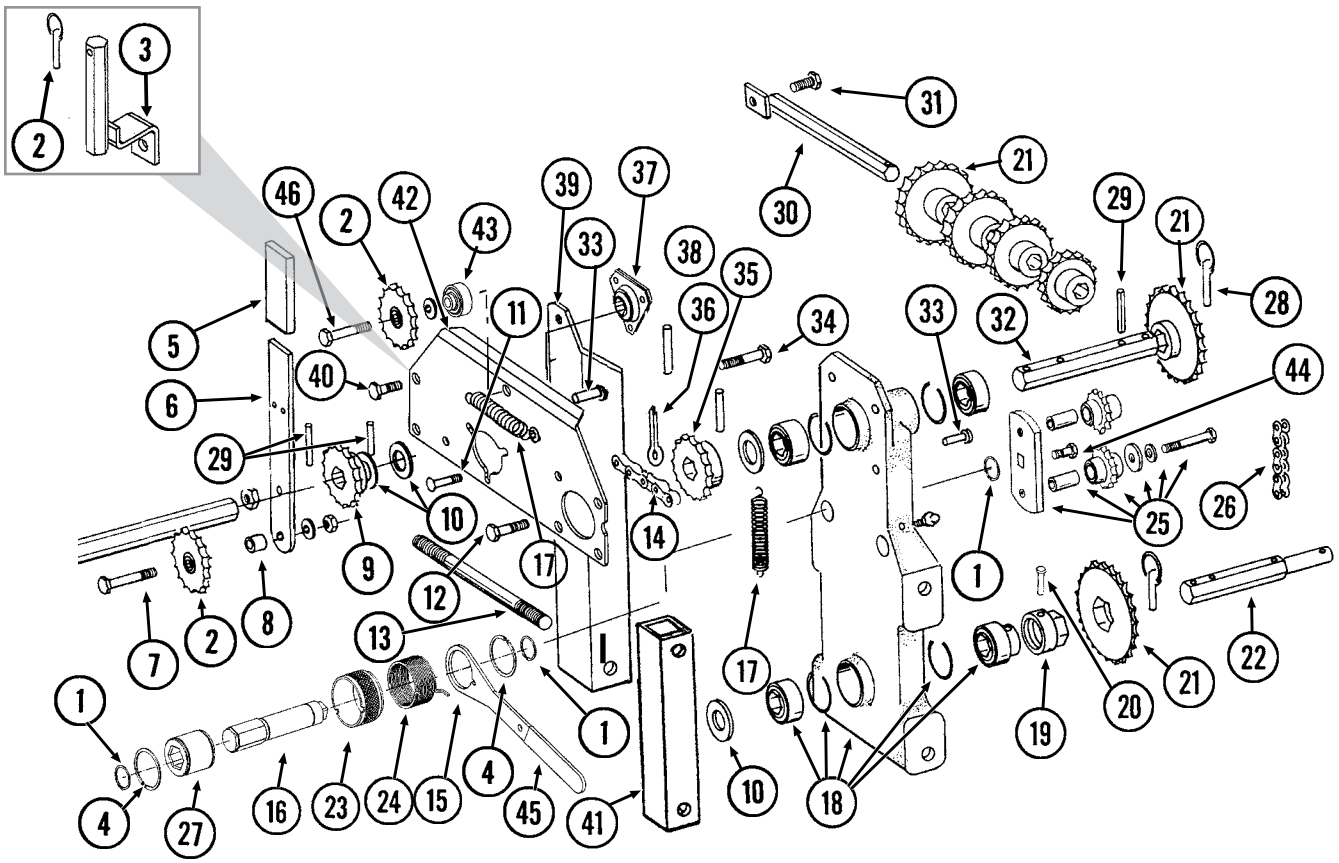
***Specific brand requests will be supplied only as available from current Kinze Repair Parts stock. If a specific brand requested is not in stock, the brand available will be supplied. Different brand tires may have different diameters. Change in tire brand may affect rates. Field checks are recommended after any change in contact tires.**

PTD033/PLA026/PTD016/PTD066(TWL54e)



ITEM	PART NO.	QTY. (Per Planter)	DESCRIPTION
1	GD1256	4	Spring
2	GD1255	4	L-Pin
3	GA5165	2	Sprocket, 30 Tooth
4	G10453	4	Cotter Pin, 3/16" x 1"
5	GA0378	2	Block And Hub Assembly
6	G10430	2	External Retaining Ring, 1¼"
7	GD9078 GD9077	- -	Hex Shaft, ⅞" x 58" (4 Holes), 6 Row 30" Hex Shaft, ⅞" x 98" (4 Holes), 8 Row 30"
8	GB0287	2	Coupler
9	GD0914-165 GD0914-225	- -	Hex Shaft, ⅞" x 165" (No Holes), 6 Row 30" Hex Shaft, ⅞" x 225" (No Holes), 8 Row 30"
10	G10131	4	Square Head Set Screw, 5/16"-18 x ¾"
11	G10130 G10923	- -	Square Head Machine Bolt, 5/16"-18 x 1¾" Flange Nut, 5/16"-18, No Serration
12	GD11045	-	Lock Clamp
A	GA5164	-	Ratchet/Sprocket Assembly (Items 1-6)
B	G1K269	-	Lock Clamp Kit (Items 11 And 12)

(METR34aa/PT8mmPT8LL)



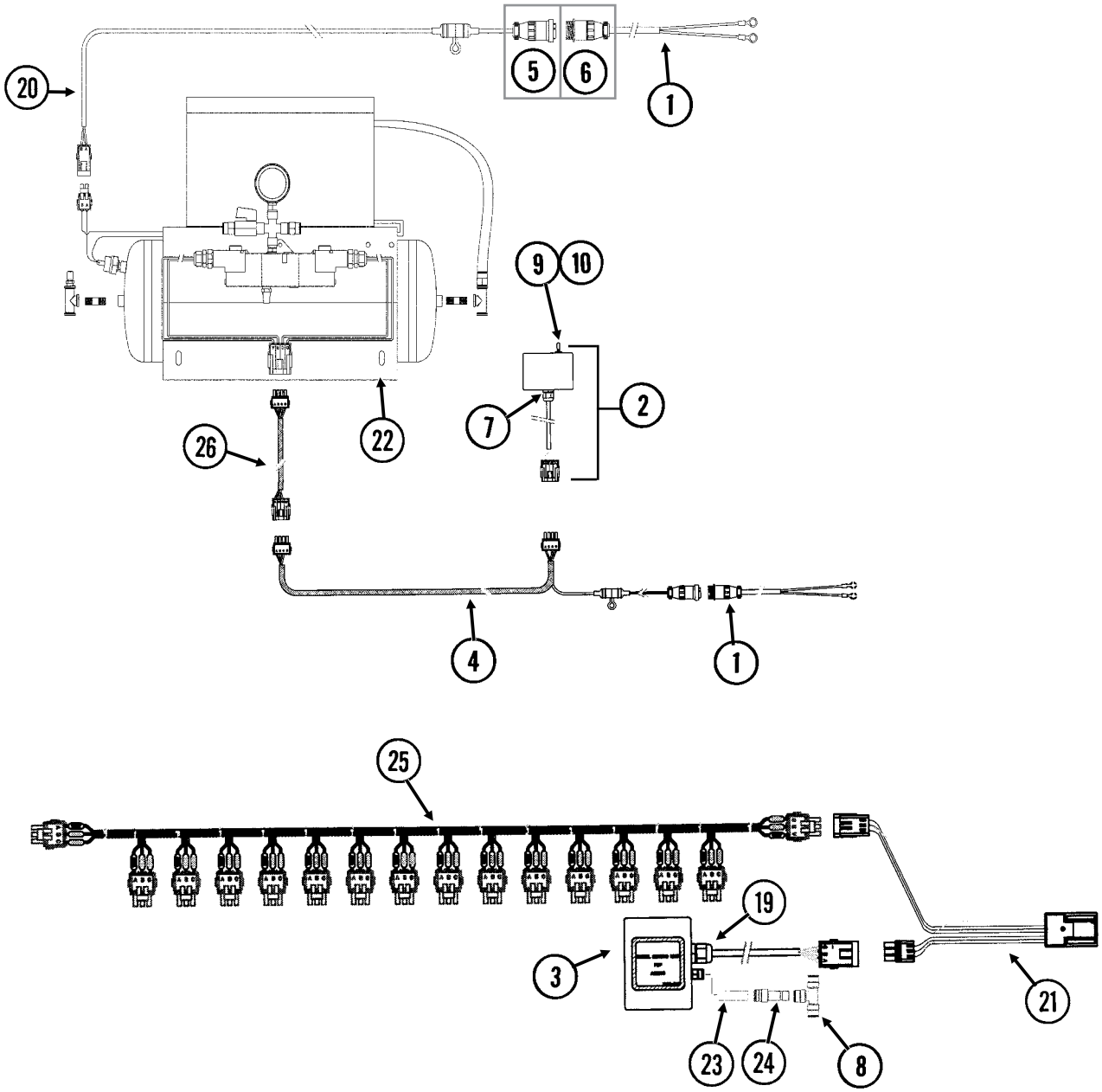
ITEM	PART NO.	QTY.	DESCRIPTION
1	G11075	3	Internal Inverted Snap Ring, ⅞"
2	GD2558	-	Lynch Pin, ¼"
3	GA12178	1	Sprocket Storage Rod (Vacuum) See Item No. 21 for Sprockets
4	G10496	2	External Inverted Snap Ring, 1½"
5	GD5827	1	Cover
6	GD31450	1	Arm
7	G10053	1	Hex Head Cap Screw, ½"-13 x 2½"
	G10128	-	Machine Bushing, ½", 14 Gauge (As Required)
	G10228	1	Lock Washer, ½"
	G10102	1	Hex Nut, ½"-13
8	GD4887-01	1	Sleeve, ½" I.D. x ⅝" Long
9	GA5105	1	Sprocket, 15 Tooth
10	G10233	-	Machine Bushing, 1", 10 Gauge
11	G10303	3	Carriage Bolt, 5⁄16"-18 x 1"
	G10620	3	Serrated Flange Nut, 5⁄16"-18
12	G10037	3	Hex Head Cap Screw, ½"-13 x 1¼"
	G10228	3	Lock Washer, ½"
	G10102	3	Hex Nut, ½"-13
13	G10177	2	Hex Head Cap Screw, ⅝"-11 x 9½"
	G10230	2	Lock Washer, ⅝"
	G10104	2	Hex Nut, ⅝"-11
14	G3310-92	1	Chain, No. 40, 92 Pitch Including Connector Link
	G3310-100	-	Chain, No. 40, 100 Pitch Including Connector Link, Used With Half Rate (2 To 1) Drive Reduction (Mechanical only)
	GR0912	-	Connector Link, No. 40

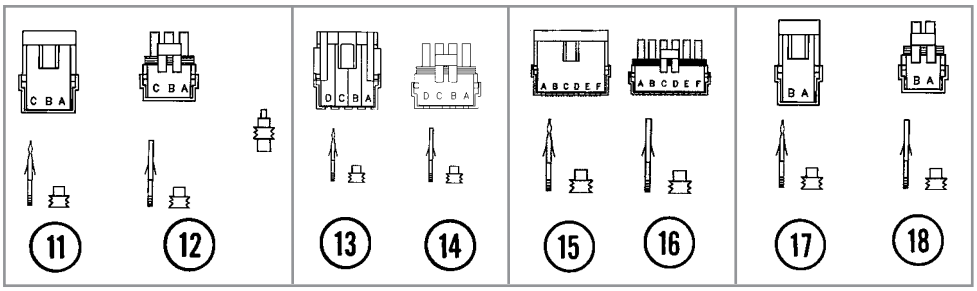
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ITEM	PART NO.	QTY.	DESCRIPTION
15	GD14431	1	Handle
16	GD14427	1	Tightener Shaft, 4⅞"
17	GD5857	2	Spring
18	GA5629	1	Transmission Plate W/Bearings, Grease Fittings And Retaining Rings
	GA5116	3	Bearing, ⅞" Hex Bore, Cylindrical (Included W/GA5629)
	GA5624	1	Special Bearing, ⅞" Hex Bore x 1.6" (Included W/GA5629)
	GD6551	4	Ring (Included W/GA5629)
	G10641	-	Grease Fitting, ⅛" NPT (Included W/GA5629)
19	GD7127	1	Shear Coupler
20	G10821	1	Clevis Pin, 3⁄16'' x 2''
	G10455	-	Cotter Pin, 1⁄16' x ½''
21	GA5105	1	Sprocket, 15 Tooth
	GA5106	1	Sprocket, 17 Tooth
	GA5107	1	Sprocket, 19 Tooth
	GA5108	2	Sprocket, 23 Tooth
	GA5109	1	Sprocket, 24 Tooth
	GA5110	1	Sprocket, 25 Tooth
	GA5111	1	Sprocket, 26 Tooth
	GA5112	1	Sprocket, 27 Tooth
	GA5113	1	Sprocket, 28 Tooth
22	GD7822	1	Shaft, ⅞" x 7"
23	GD19343	1	Release Collar, Gold, R.H.
24	GD14413	1	Torsion Spring, L.H. (Used On R.H. Wrap Spring Wrench)
25	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth (Included W/GA7336)
	GD1026	-	Sleeve, 1 3⁄16" Long (Included W/GA7336)
	G11387	-	Flat Washer, ⅜" SAE (Included W/GA7336)
	G10229	-	Lock Washer, ⅜" (Included W/GA7336)
	G10047	-	Hex Head Cap Screw, ⅜"-16 x 1¾" (Included W/GA7336)
26	G3310-80	1	Chain, No. 40, 80 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
27	GD14432	1	Sleeve, 1¼"
28	GD2558	3	Lynch Pin, ¼"
29	G10602	5	Spring Pin, ¼" x 1½"
30	GA5146	1	Sprocket Storage Rod
31	G10017	1	Hex Head Cap Screw, ½"-13 x 1½"
	G10527	1	Lock Washer, ½" Internal/External
	G10111	1	Lock Nut, ½"-13
32	GD5835	1	Shaft, ⅞" x 7"
33	G10870	1	Clevis Pin, ⅜" x 1"
	G10860	1	Retaining Ring, ⅜"
34	G10004	1	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G10229	1	Lock Washer, ⅜"
	G10203	-	Washer, ⅜" SAE (As Required)
	GD15538	-	Spacer, ⅜" I.D. x ⅞" O.D., 7 Gauge
	GD5756	1	Special Nut, ⅜"-16
35	GA5106	1	Sprocket, 17 Tooth, Standard Drive (Mechanical)
	GA5108	-	Sprocket, 23 Tooth, (Vacuum)
	GA5202	-	Sprocket, 34 Tooth, Half Rate (2 To 1) Drive Reduction (Mechanical only)
36	G10460	1	Cotter Pin, ¼" x 2"
37	GA7841	1	Bearing, ⅞" Hex Bore, Spherical
38	G3400-01	2	Flangette
39	GD5830	1	Angle Support, R.H.

ITEM	PART NO.	QTY.	DESCRIPTION
40	G10017	2	Hex Head Cap Screw, ½"-13 x 1½"
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
41	GD9047	1	Spacer
42	GD16302	-	Reverser Plate
43	GB0259	-	Spacer, 1"
44	G11100	1	Hex Socket Button Head Cap Screw, ¼"-20 x ½", Grade 8
	G10227	1	Lock Washer, ¼"
	G11453	1	Fender Washer, ¼"
45	G11078	1	Vinyl Cap
46	G10038	1	Hex Head Cap Screw, ½"-13 x 3"
	G10128	-	Machine Bushing, ½", 14 Gauge (As Required)
	G10228	1	Lock Washer, ½"
	G10102	1	Hex Nut, ½"-13
A	G1K378	1	Wrap Spring Wrench Replacement Kit, Gold Collar, R.H. (Items 1, 4, 15, 16, 23, 24, 27, 44, And 45)

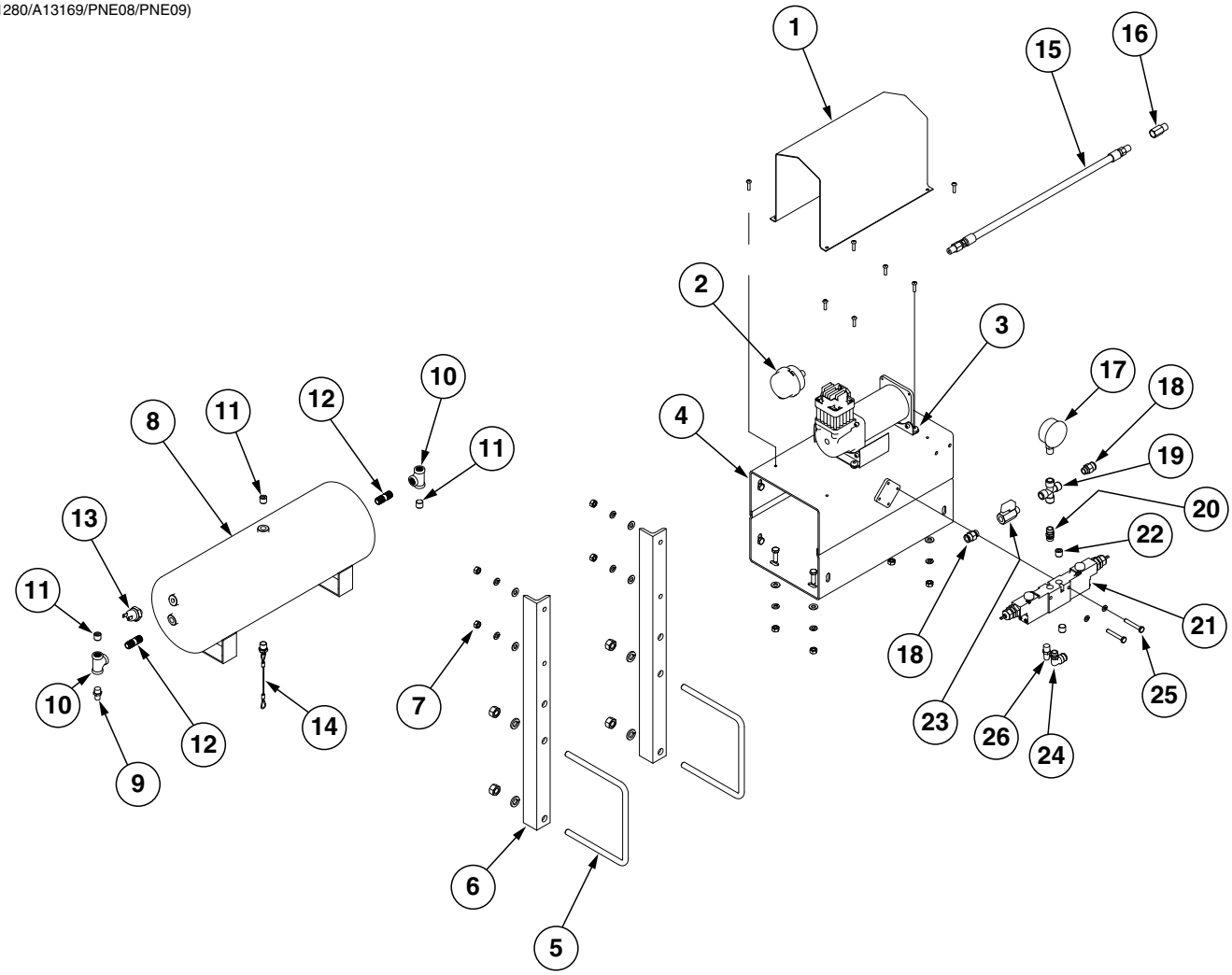
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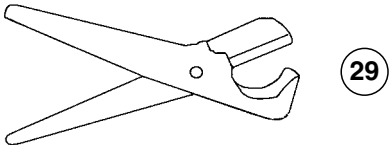


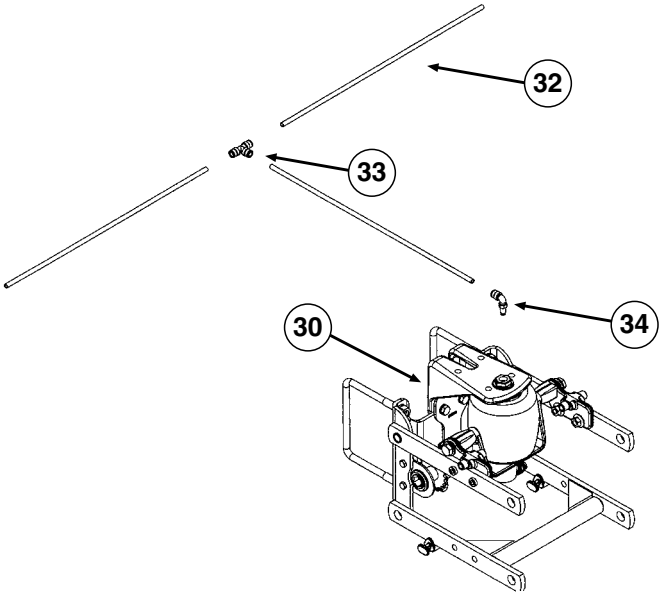


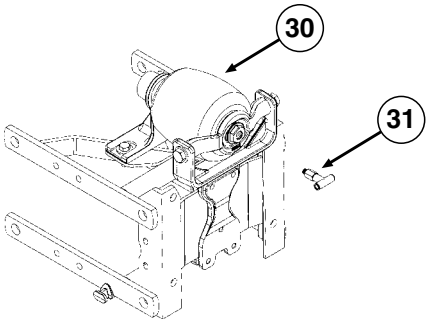
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7856	2	Power Lead Adapter
2	GA12644	1	Control Console Assembly
3	GA12646	1	Sending Unit
4	GA12645 GD14258 GD14660	1 - -	Wiring Harness W/Fuse Holder And Fuse, 206" Fuse Holder (Included W/GA12645) Fuse, 2 Amp Delay Action (Included W/GA12645)
5	G1K268	-	Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (1) Lock Ring, (3) Female Terminal Pins
6	G1K267	-	Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (3) Male Terminal Pins
7	GA9963	1	Strain Relief
8	GD18010	1	Tee, ⅜" Tube Union
9	GR1363	1	Hex Face Nut, 15⁄32"-32
10	GA6978	1	Switch, 3 Position Toggle, ON-OFF-ON
11	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
12	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
13	GA8328	-	4-Pin Female Connector Kit, Includes: (1) 4-Pin Female Housing, (4) Pin Contacts, (4) Seals
14	GA8329	-	4-Pin Male Connector Kit, Includes: (1) 4-Pin Male Housing, (4) Socket Contacts, (4) Seals
15	G1K396	-	6-Pin Female Connector Kit (Black), Includes: (3) 6-Pin Female Housings,(18) Pin Contacts, (18) Seals
16	G1K395	-	6-Pin Male Connector Kit (Black), Includes: (3) 6-Pin Male Housings, (18) Socket Contacts, (18) Seals
17	G1K321	-	2-Pin Female Connector Kit (Black), Includes: (3) 2-Pin Female Housings, (6) Pin Contacts, (6) Seals
18	G1K320	-	2-Pin Male Connector Kit (Black), Includes: (3) 2-Pin Male Housings, (6) Socket Contacts, (6) Seals
19	GA9964	2	Strain Relief
20	GA16391	1	Compressor Harness, 40'
21	GA12812	1	Hall Effect Adapter
22	---	-	See “Pneumatic Down Pressure Air Compressor, Dual Solenoid Assembly, Tubing, and Fittings” on page P85
23	GD17151-06	1	Nylon Tubing, ¼" O. D. x 1½"
24	GD18796	1	Reducer, ⅜" To ¼"
25	---	-	See “KPM III Electronic Seed Monitor” on page P107
26	GA12858	1	Wiring Harness, 60'

(IP1280/A13169/PNE08/PNE09)



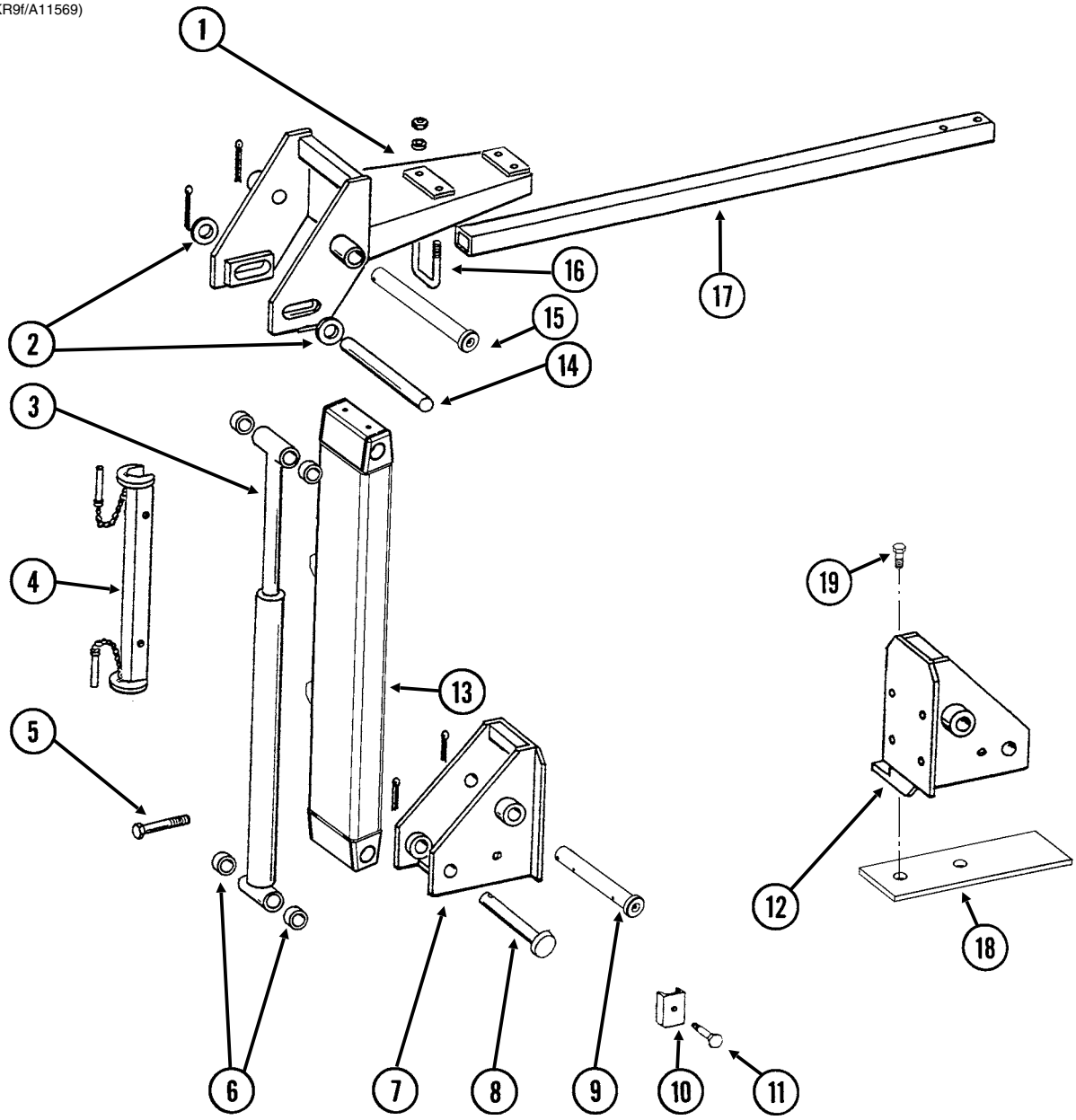






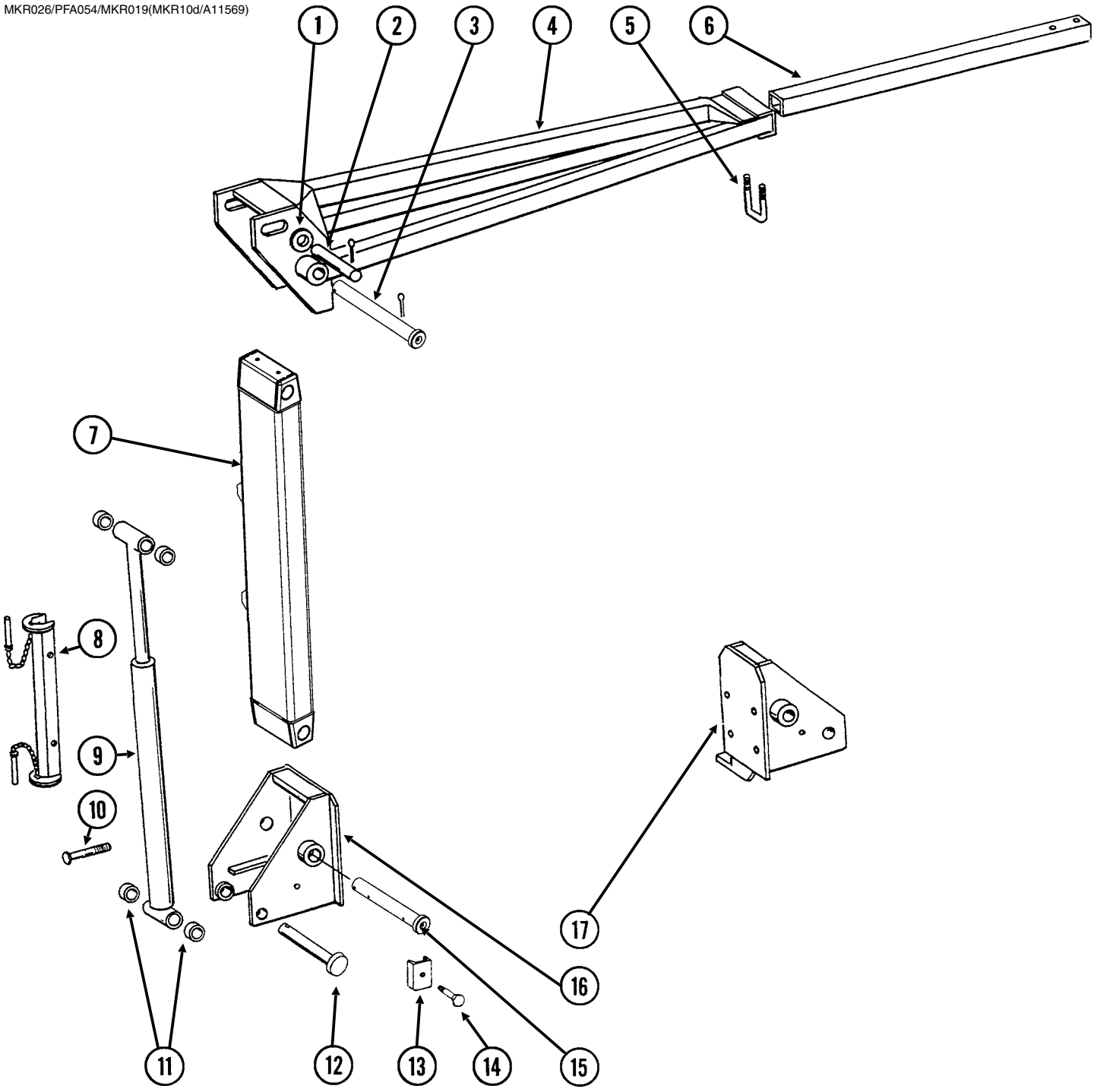
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD18112	1	Cover
	G11066	8	Phillips Pan Head Machine Screw, No. 10-24 x ¾", Stainless Steel
	G10992	8	Serrated Flange Nut, No. 10-24
2	GA14127	1	Filter Assembly
	GR1943	1	Filter (Included W/GA14127)
3	GA22273	1	Air Compressor
	G11066	4	Phillips Pan Head Machine Screw, No. 10-24 x ¾", Stainless Steel
	G10992	4	Serrated Flange Nut, No. 10-24
4	GA12358	1	Mount
	G10019	4	Hex Head Cap Screw, 5⁄16"-18 x 1"
	G10232	4	Lock Washer, 5⁄16"
	G11386	4	Flat Washer, 5⁄16" SAE
	G10106	4	Hex Nut, 5⁄16"-18
5	GD11721	2	U-Bolt, 5" x 7" x ½"-13
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
6	GD18119	2	Compressor Mount
7	G10106	4	Hex Nut, 5⁄16"-18
	G10232	4	Lock Washer, 5⁄16"
	G11386	4	Flat Washer, 5⁄16" SAE
	G10019	4	Hex Head Cap Screw, 5⁄16"-18 x 1"
8	GA11988	1	Tank, 3 Gallon
9	GA13512	1	Valve Stem, ¼" NPT
10	GD19237	2	Tee, ¼" NPT
11	GD17156	3	Plug, ¼" NPT
12	GD19238	2	Nipple, ¼" NPT
13	GR1778	1	Pressure Switch
14	GA11991	1	Drain, ¼" NPT
15	GR1951	1	Leader Hose without Check Valve
16	GR1921	1	Check Valve
17	GA12104	1	Pressure Gauge
18	GD17141	2	Connector, ¼" Male
19	GD18078	1	Female Cross, ¼" NPT
20	GD17154	1	Connector, ¼" Male
21	GA22793	1	Dual Solenoid Assembly
22	GD17156	2	Plug, ¼" NPT
23	GA11992	1	Shutoff Valve, ¼" NPT
24	GD17143	1	Swivel Elbow, ¼" NPT x ⅜"
25	G10040	2	Hex Head Cap Screw, ¼"-20 x 1¾"
	G10227	2	Lock Washer, ¼"
26	GA11997	1	Breather, ¼" NPT
27	---	-	---
28	---	-	---
29	GA13169	1	Tube Cutter W/Blade
	GR1843	-	Blade
30	---	-	See “Parallel Arms, Mounting Support Plate, and Pneumatic Down Pressure Package Option” on page P3
31	GD18274	-	Tee, ⅜" x ⅛" NPT Extended, Push Row Unit
32	GD17150-01	-	Nylon Tubing, ⅜" O.D. x 32', 6 Row Pull Row Units
	GD17150-02	-	Nylon Tubing, ⅜" O.D. x 44', 8 Row Pull Row Units
	GD17150-11	-	Nylon Tubing, ⅜" O.D. x 28', 5 Row Push Row Units
	GD17150-10	-	Nylon Tubing, ⅜" O.D. x 40', 7 Row Push Row Units
	GD17150-12	-	Nylon Tubing, ⅜" O.D. x 5', Even-Row Push Row Unit
33	GD18010	-	Tee, ⅜" Tube Union
34	GD18011	-	Elbow, ⅜" x ⅛" NPT Extended
35	GR2233		Vibration Isolator Gromet, 4 Pack
A	GA12626	1	Air Compresor Assembly (Items 1-4, 8-14)
B	GR1783	-	Valve Seal Kit

MKR025/PFA054(MKR9f/A11569)



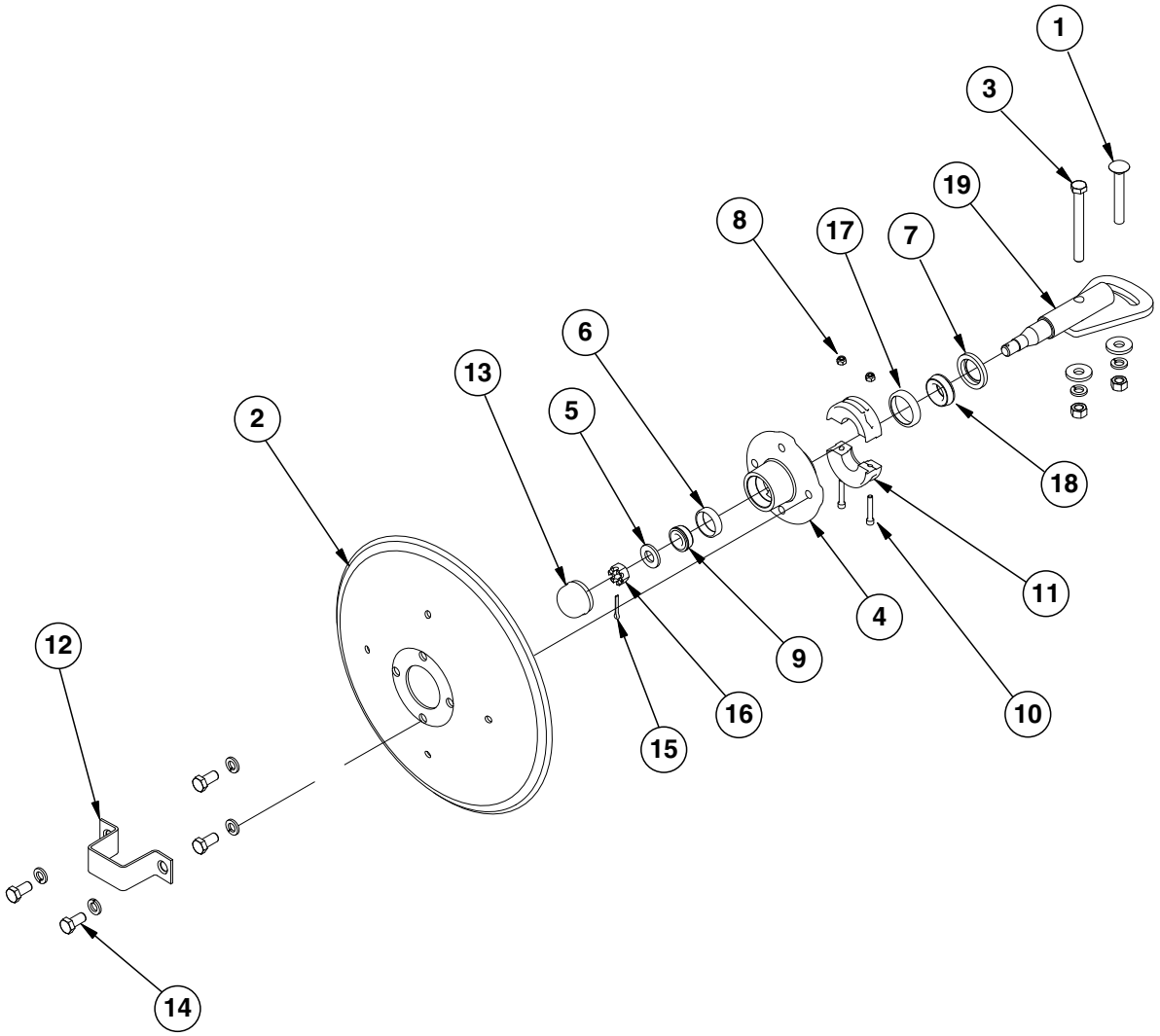
ITEM	PART NO.	QTY. (Per Marker)	DESCRIPTION
1	GA6442	1	Arm, Second Stage, 20"
2	G11396	2	Flat Washer, 1¼" SAE
3	---	-	See “Row Marker Cylinder” on page P99
4	GA5526 G10536	1 -	Safety Lockup W/Detent Pins **(Sub GA8170)** Detent Pin, ½" x 2½" Grip (Included W/GA5526)
5	G10008 G10230 G11391 G10104	4 4 4 4	Hex Head Cap Screw, ⅝"-11 x 2" Lock Washer, ⅝" Flat Washer, ⅝" SAE Hex Nut, ⅝"-11
6	GD0752-41	-	Sleeve, 1" (If Applicable)
7	GA6859	1	Mount, L.H.
8	GD15386 G10460	1 1	Pin, 1¼" x 7⅝" Cotter Pin, ¼" x 2"
9	GD21143 G10159 G11400 G10640 G10463	- - - - -	Marker Pin, 1¼" x 9½" Washer, 1⅞" Retaining Ring, 1¼" Grease Fitting, ¼"-28 Cotter Pin, ¼" x 1½"
10	GD5875	1	Hose Clamp, 9⁄16" x 2½" x 2"
11	G10003 G10108	1 1	Hex Head Cap Screw, ⅜"-16 x 1½" Lock Nut, ⅜"-16
12	GA6858	-	Mount, R.H.
13	GA13762	1	Arm, First Stage
14	GD2161 G10159 G10460	1 1 2	Pin, 1¼" x 8¼" Washer, 1⅞" Cotter Pin, ¼" x 2"
15	GD21142 G10159 G11400 G10640 G10460	- - - - -	Marker Pin, 1¼" x 13⁄16" Washer, 1⅞" Retaining Ring, 1¼" Grease Fitting, ¼"-28 Cotter Pin, ¼" x 2"
16	GD2721 G10228 G10102	2 4 4	U-Bolt, 2" x 2" x ½"-13 Lock Washer, ½" Hex Nut, ½"-13
17	GD0453-02 GD0453-06 GD0453-05	1 - -	Extension Tube, 40" Extension Tube, 30" (Used With Interplant Package Option) Extension Tube, 55" (L.H. Side Only With Even-Row Push Row Unit)
18	GD13457	1	Extension Plate
19	G10005 G10230 G10104	2 2 2	Hex Head Cap Screw, ⅝"-11 x 1¾" Lock Washer, ⅝" Hex Nut, ⅝"-11

MKR026/PFA054/MKR019(MKR10d/A11569)



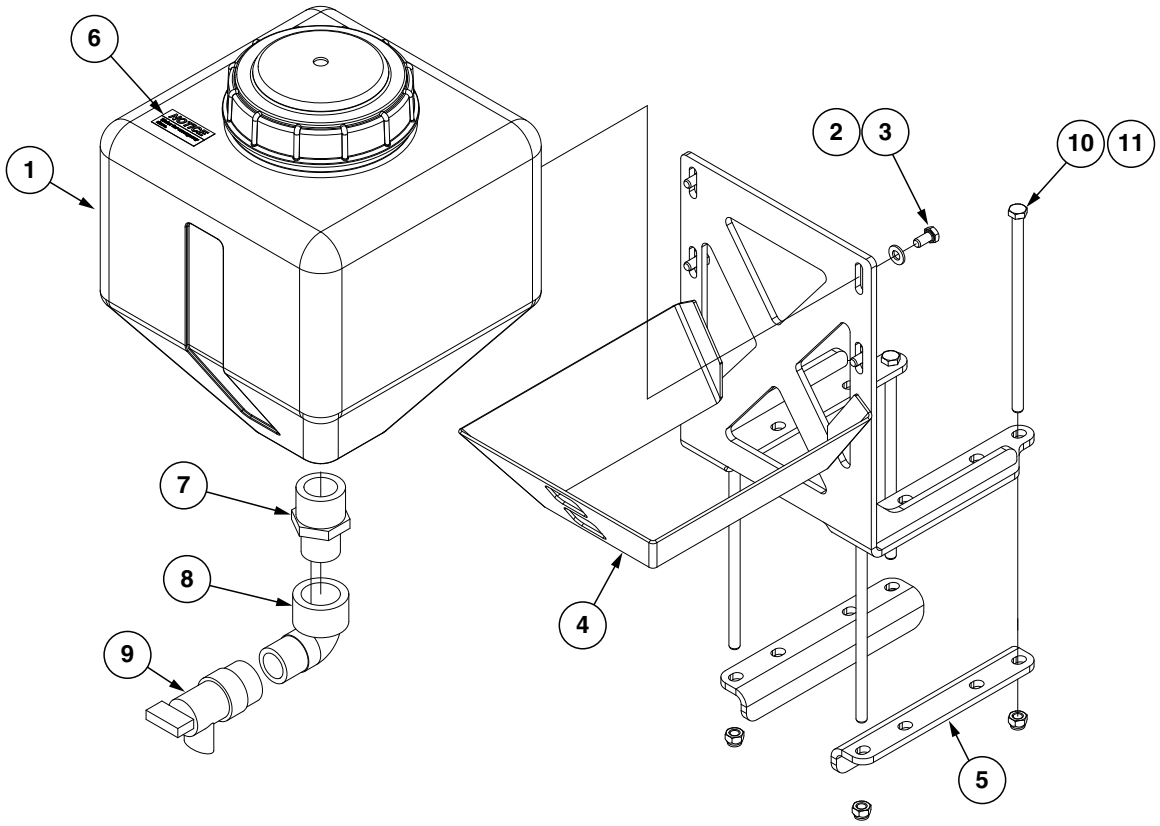
ITEM	PART NO.	QTY. (Per Marker)	DESCRIPTION
1	G11396	2	Flat Washer, 1¼" SAE
2	GD2161	1	Pin, 1¼" x 8¼"
	G10159	-	Washer, 1⅞"
	G10460	2	Cotter Pin, ¼" x 2"
3	GD21142	-	Marker Pin, 1¼" x 13⁄16"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10460	-	Cotter Pin, ¼" x 2"
4	GA5188	1	Arm, Second Stage
5	GD2721	1	U-Bolt, 2" x 2" x ½"-13
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
6	GD0453-03	1	Extension Tube, 50"
	GD0453-08	-	Extension Tube, 65" (L.H. Side Only With Even-Row Push Row Unit)
7	GA13762	1	Arm, First Stage
8	GA5526	1	Safety Lockup W/Detent Pins **(Sub GA8170)**
	G10536	-	Detent Pin, ½" x 2½" Grip (Included W/GA5526)
9	---	-	See “Row Marker Cylinder” on page P99
10	G10008	4	Hex Head Cap Screw, ⅝"-11 x 2"
	G10230	4	Lock Washer, ⅝"
	G11391	4	Flat Washer, ⅝" SAE
	G10104	4	Hex Nut, ⅝"-11
11	GD0752-41	-	Sleeve, 1" (If Applicable)
12	GD15386	1	Pin, 1¼" x 7⅝"
	G10460	1	Cotter Pin, ¼" x 2"
13	GD5875	1	Hose Clamp, 9⁄16" x 2½" x 2"
14	G10003	1	Hex Head Cap Screw, ⅜"-16 x 1½"
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
15	GD21143	-	Pin W/Grease Fitting, 1¼" x 9½"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10463	-	Cotter Pin, ¼" x 1½"
16	GA6859	1	Mount, L.H.
17	GA6858	-	Mount, R.H.

IP1035aa



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10844	1	Carrriage Bolt, ½"-13 x 3½"
	G10168	2	Machine Bushing, ½", 7 Gauge
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
2	GD0746	1	Disc Blade, Solid, 16" (Shown)
	GD10283	-	Disc Blade, Notched, 16" (Optional)
3	G10045	1	Hex Head Cap Screw, ½"-13 x 4½"
	G10168	2	Machine Bushing, ½", 7 Gauge
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
4	GA0167	1	Hub W/Cups, 4 Bolt (Includes Items 6 and 17)
5	G11391	1	Flat Washer, ⅝" SAE
6	GR0151	1	Outer Cup
7	GD21540	1	Grease Seal
8	G10110	2	Lock Nut, ¼"-20, Grade B
9	GA0257	1	Bearing
10	G11418	2	Hex Socket Head Cap Screw, ¼" x 1½"
11	GB0554	2	Hub Shield
12	GD2597	1	Retainer
13	GD0840	1	Dust Cap
14	G10722	4	Hex Head Cap Screw, ½"-20 x 1"
	G10228	4	Lock Washer, ½"
15	G10544	1	Cotter Pin, 5⁄32" x 1"
16	G10725	1	Slotted Hex Nut, ⅝"-18
17	GR0150	1	Inner Cup
18	GA0245	1	Bearing
19	GA15151	1	Spindle
A	GA13719	-	Hub And Spindle Assembly, (Items 4-19)

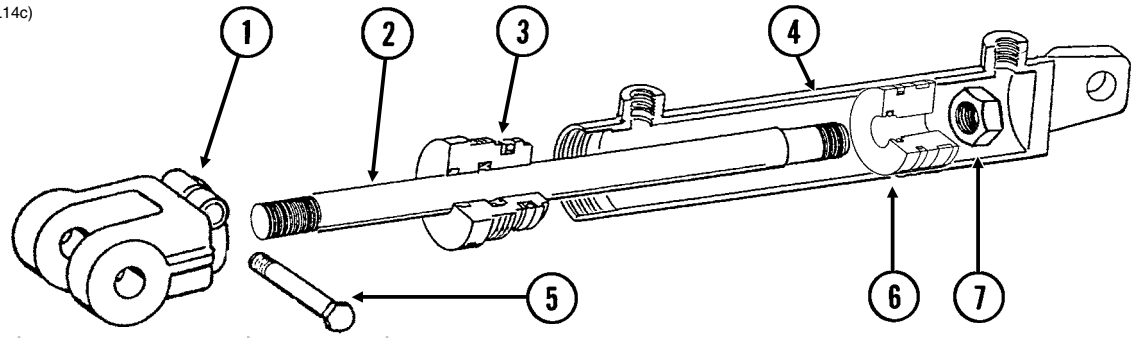
A21003



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD30723	1	4 Gallon Water Tank W/Lid
2	G11386	4	Flat Washer, 5⁄16" SAE
3	G10018	4	Hex Head Cap Screw, 5⁄16"-18 x 5⁄8"
4	GA24449	1	Water Tank Mount
5	GD30221	2	Water Tank Mount Brackets
6	G7100-501	1	Decal, Notice
7	G10727	1	Reducing Nipple, 1-1/4" x 1"
8	G11742	1	1" NPT 90° Elbow
9	GD30722	1	1" NPTF Flush Valve
10	G10686	4	Hex Head Cap Screw, 3⁄8"-16 x 8"
11	G10108	4	Lock Nut, 3⁄8"-16

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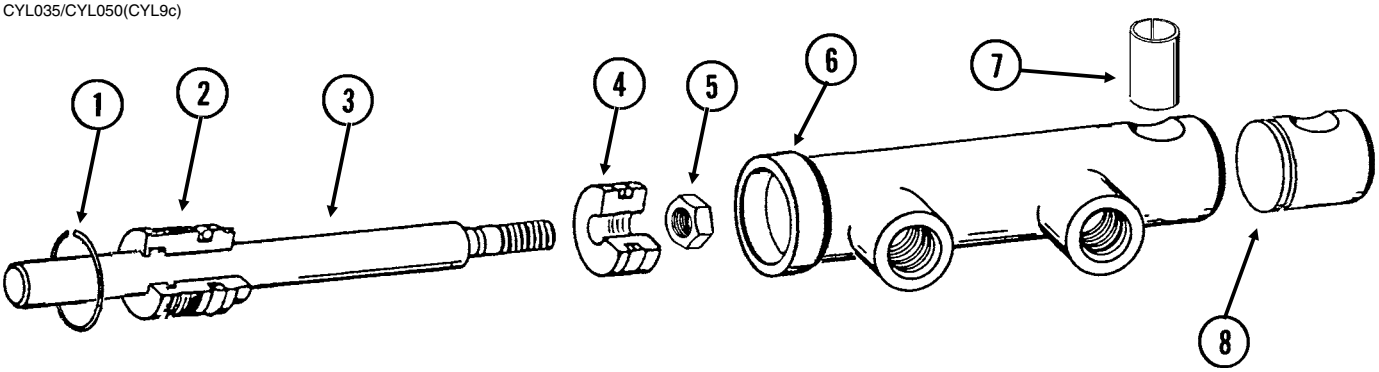
CYL032(CYL14c)



ITEM	PART NO.	QTY. (Per Cylinder)	DESCRIPTION
1	GD11950	1	Clevis
2	GD12501	1	Rod
3	GD11999	1	Gland
4	A6524	1	Barrel **(Non-Stock Item)**
5	G10939 G10108	1 1	Hex Head Cap Screw, ⅜"-16 x 2¼" Lock Nut, ⅜"-16
6	GD12502	1	Piston
7	G10958	1	Lock Nut, 1"-14
A	GA8911	-	Cylinder Complete, 3" x 16" *(Part Number Stamped On Barrel)*
B	GR1526	-	Seal Kit, Includes: (1) Wear Ring, (1) T-Seal, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Wiper

Transport Latch Cylinder, All Sizes

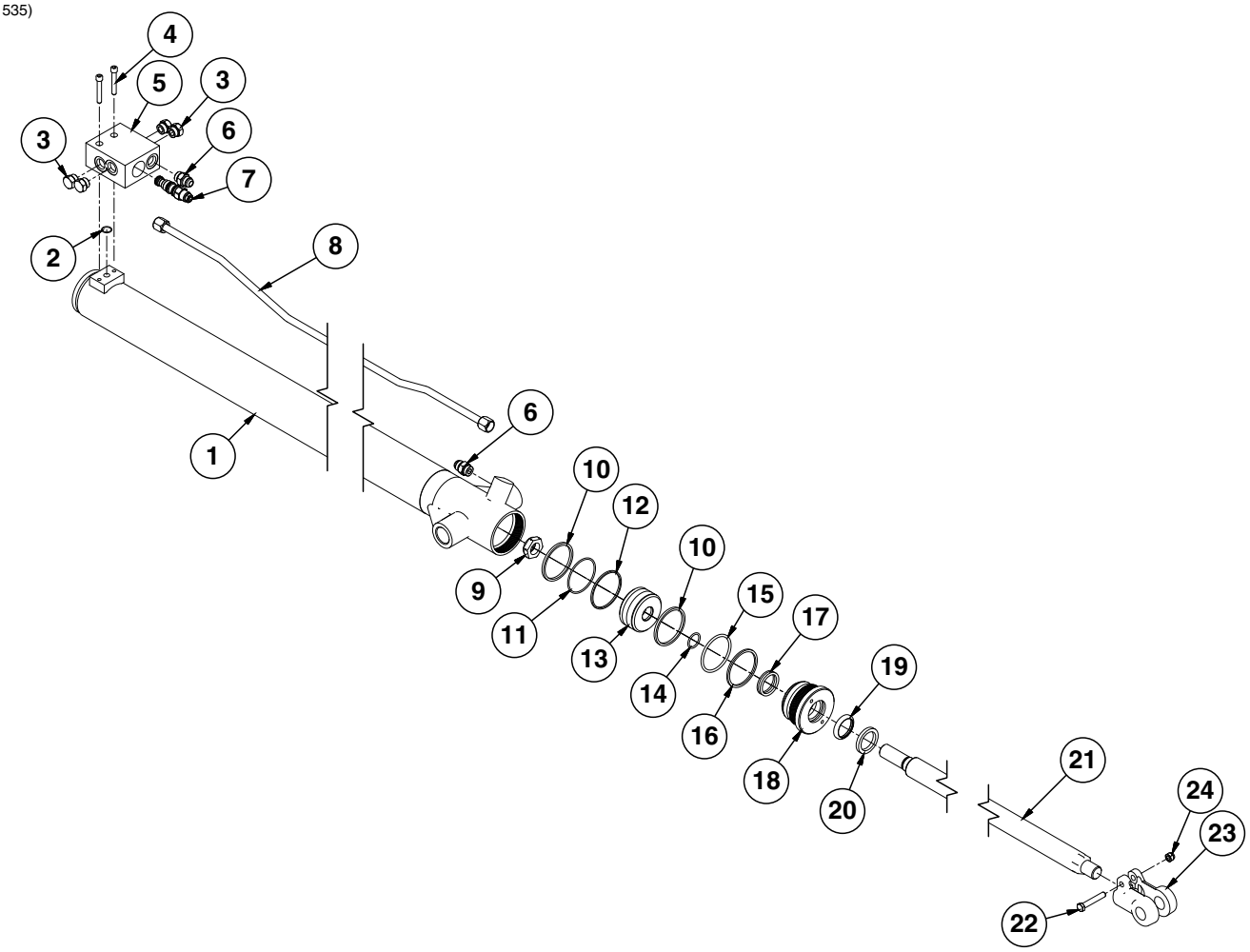
CYL035/CYL050(CYL9c)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10770	1	Internal Retaining Ring, 1 11/16"
2	GD13170	1	Gland
3	GD13425	1	Rod
4	GD13172	1	Piston
5	GD27232	1	Nylon Lock Nut, ½"-20, Grade 8
6	D13426	1	Barrel **(Non-Stock Item)**
7	GD13400	1	Tension Bushing, 1" x 2" Long
8	GD13173	1	End Cap
A	GA9559	-	Cylinder Complete, 1½" x 2½" *(Part Number Stamped On Barrel)*
B	GR1598	-	Seal Kit, Includes: (3) O-Rings, (2) BU Rings, (1) Rod Wiper, (1) T-Seal, (1) Bronze Bushing, (1) Seal, (1) U-Cup

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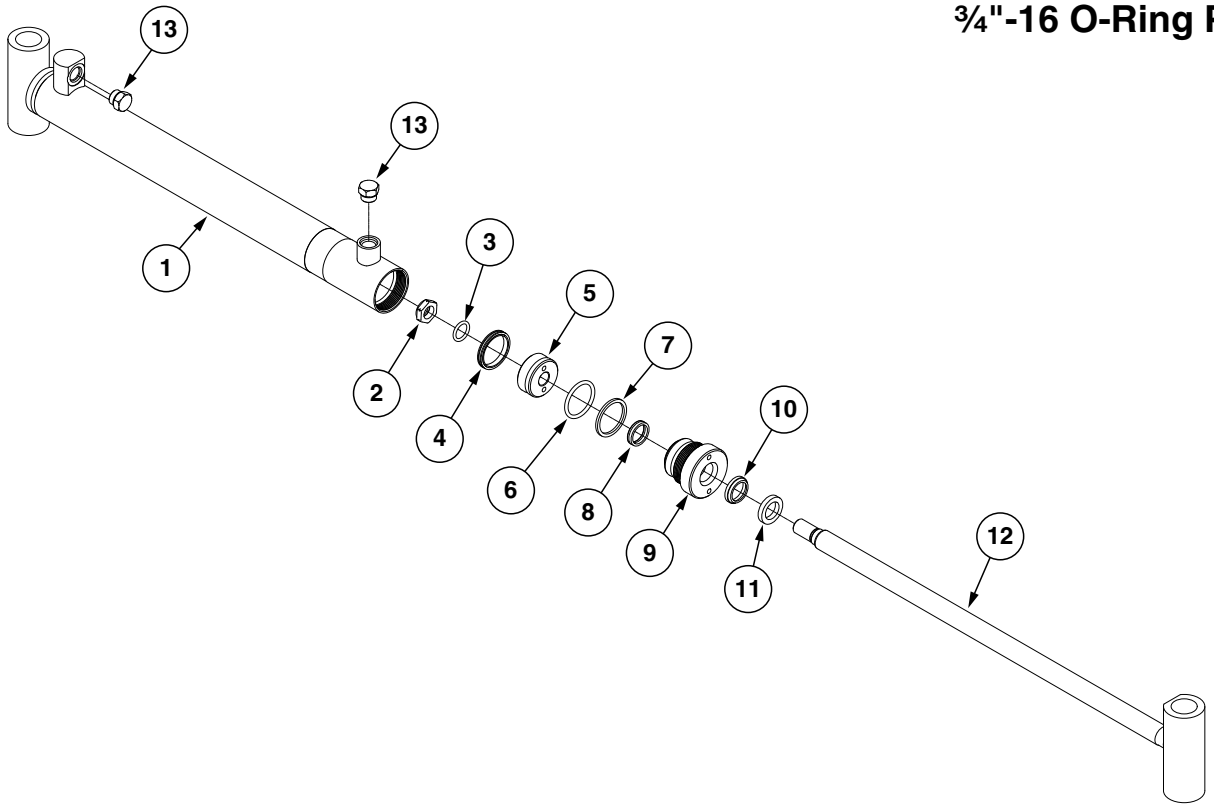
(IP1535)



ITEM	PART NO.	QTY. (Per Cylinder)	DESCRIPTION
1	GA8884	1	Barrel
2	GD12239	1	O-Ring, No. 016
3	G6408-08 GR1037	2 -	Plug W/O-Ring, ¾"-16 O-Ring O-Ring
4	G10932	2	Hex Socket Head Cap Screw, 5/16"-18 x 2", Grade 8
5	GD11579	1	Block
6	G6400-08 GR1037	2 -	Connector W/O-Ring, ¾"-16 Male JIC To O-Ring O-Ring
7	GA8882 GR1517	1 -	Counter Balance Valve Seal Kit For Counter Balance Valve, Includes: (3) O-Rings, (3) BU Rings
8	GA8888	1	Steel Hydraulic Line, 43 11/16"
9	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
10	GD12050	2	Piston Ring, 3"
11	GD12051	1	Piston Seal, 3"
12	GD12209	1	Energizer Seal, 3"
13	GD30632	1	Piston Cylinder
14	GD29649	1	O-Ring, No. 215
15	GD12202	1	O-Ring, No. 334
16	GD12203	1	BU Ring
17	GD12252	1	U-Cup
18	GD12518	1	Gland
19	GD12206	1	Wiper, 1½"
20	GD12103	1	Ring
21	GD30631	1	Cylinder Rod, 1½"
22	G10939	1	Hex Head Cap Screw, ⅜"-16 x 2¼"
23	GD30859	1	Clevis Rod
24	G10108	1	Lock Nut, ⅜"-16
A	GA21705	---	Cylinder Complete, 3" x 48" *(Part Number Stamped On Barrel)*
B	GR2223	---	Seal Kit (Cylinder), Includes: (1) Wiper, (1) U-Cup, (7) O-Rings, (4) BU Rings, (1) Seal, (1) Seal Expander, (2) Cast Iron Rings

(IP1527)

¾"-16 O-Ring Ports



ITEM	PART NO.	QTY.	DESCRIPTION
1	A9442	1	Barrel
2	GD27233	1	Nylon Lock Nut, 3/4"-16, Grade 8
3	*D29692	1	O-Ring, No. 211
4	*D12277	1	T-Seal
5	GD29689	1	Piston
6	*D12235	1	O-Ring, No. 326
7	*D12236	1	Back-Up Ring
8	*D12256	1	U-Cup
9	GD12510	1	Gland
10	*D12233	1	Wiper Rod
11	GD12101	1	Ring
12	GA21159	1	Rod
13	G6408-08 GR1037	2 -	Plug W/O-Ring, ¾"-16 O-Ring O-Ring
A	GA21158	-	Cylinder Complete, 2" x 20 1/16" *(Part Number Stamped On Barrel)*
B	GR2229	-	Seal Kit, Includes: (1) Wiper, (2) U-Cup, (3) O-Rings, (1) BU Ring, (1) T-Seal, (1) Instrcution Sheet

*Item is part of seal kit, item can not be purchased individaully.

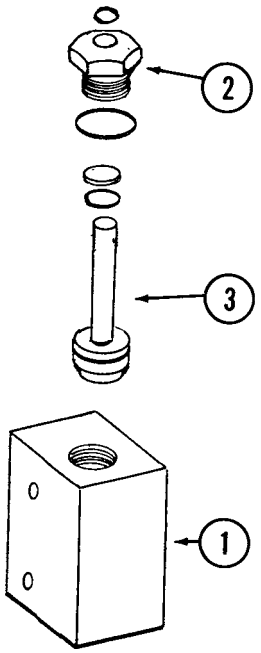
Stroke Limiter Valve

(TWL55)

ITEM	PART NO.		QTY.	DESCRIPTION
	Style A*	Style B*		
1	---	---	1	Block **(Non-Stock Item)**
2	GR1281	**	1	Adapter Plug
3	GR1282	GR2193	1	Piston Rod And Poppet Assembly
A	GA6884	GA6884	-	Stroke Limiter Valve Complete
B	GR1289	---	-	Seal Kit, Includes: (2) O-Rings, (1) BU Ring, (1) Seal
C	---	GR2194		Seal Kit, Includes: (2) O-Rings, (1) BU Ring, (1) Seal, (1) Adapter Plug

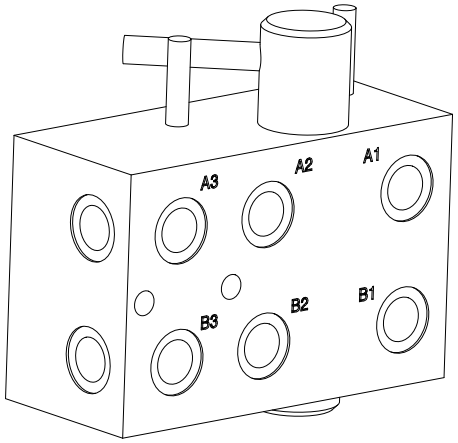
***Style A and B are determined by block color. Style A block will be yellow/zinc in color and manufactured by Shoemaker Inc. Style B block will be black in color and manufactured by Delta Power Company.**

****Item is part of seal kit (GR2194), item can not be purchased individually**



Selector Valve

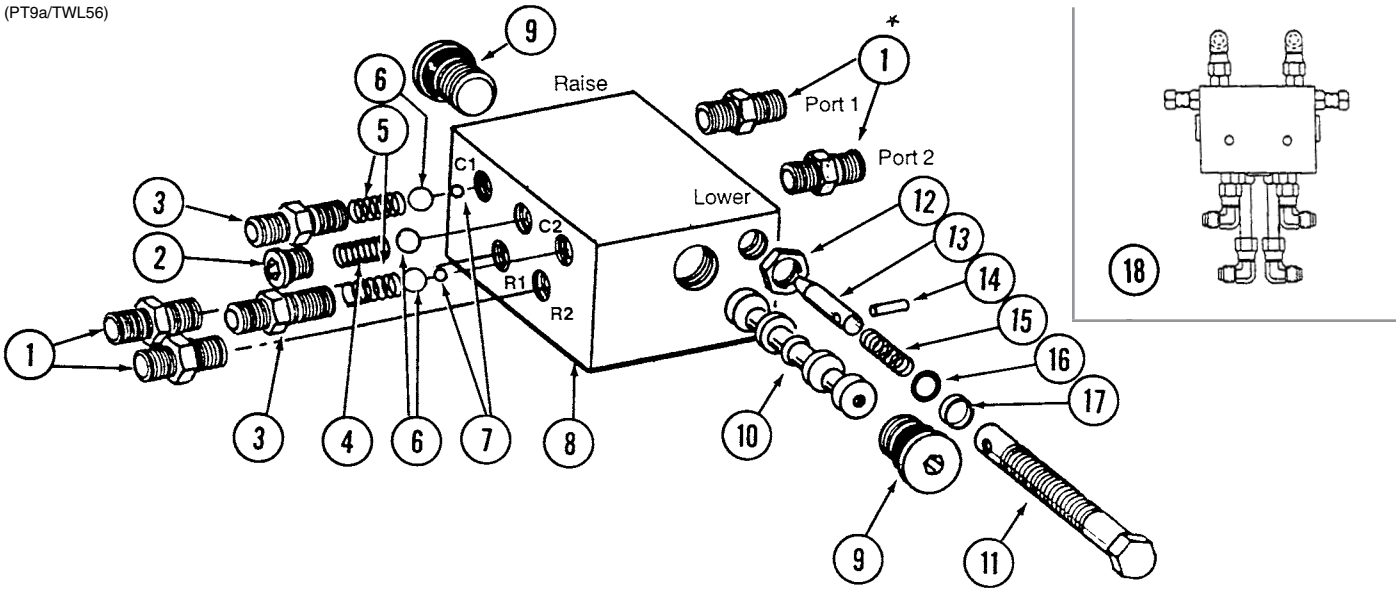
(A6438)



ITEM	PART NO.		QTY.	DESCRIPTION
	Style A*	Style B*		
1	GR1096	GR2195	1	Seal Kit, Includes: (2) Retaining Rings, (2) O-Rings, (2) BU Rings
A	GA6438	GA6438	-	Valve Assembly

***Style A and B are determined by block color. Style A block will be yellow/zinc in color and manufactured by Shoemaker Inc. Style B block will be black in color and manufactured by Delta Power Company.**

(PT9a/TWL56)



ITEM	PART NO.		QTY.	DESCRIPTION
	Style A**	Style B**		
1	*G6400-06 GR1045	*G6400-06 GR1045	4 -	Connector W/O-Ring, 9⁄16"-18 Male JIC To O-Ring O-Ring
2	GR1034 GR1035	***	2 -	Hex Socket Plug W/O-Ring O-Ring
3	GR1032 GR1045	***	2 -	Port Adapter W/O-Ring O-Ring
4	GR1033	***	1	Detent Spring
5	GR1036	***	2	Spring
6	GR1044	***	3	7⁄16" Check Ball
7	GR1043	***	2	¼" Steel Ball
8	---	---	1	Valve Body **(Non-Stock Item)**
9	GR1047 GR1037	GR1047 GR1037	2 -	Hex Socket Plug W/O-Ring O-Ring
10	---	---	-	Spool **(Non-Stock Item)**
11	GR1042	****	2	Adjustment Screw
12	GR1048	****	2	Hex Jam Nut, ½"-20
13	GR1038	****	2	Needle
14	GR1039	****	2	Spring Pin
15	GR1046	****	2	Compression Spring
16	GR1040	****	2	O-Ring
17	GR1041	****	2	Teflon BU Ring
18	---	---	-	See “Planter Hydraulic System” on page P103
A	GA5552	GA5552	-	Valve Assembly Complete (Items 1-17)
B	GA5572	GA20822	-	Flow Control Assembly Portion Only (Items 11-17)
C	---	GR2203	-	Detent Kit, Includes: (2) Hex Socket Plug W/O-Ring, (2) Port Adapter W/O-Ring, (1) Detent Spring, (2) Spring, (3) Check Ball, (2) Steel Ball

***Not used.**

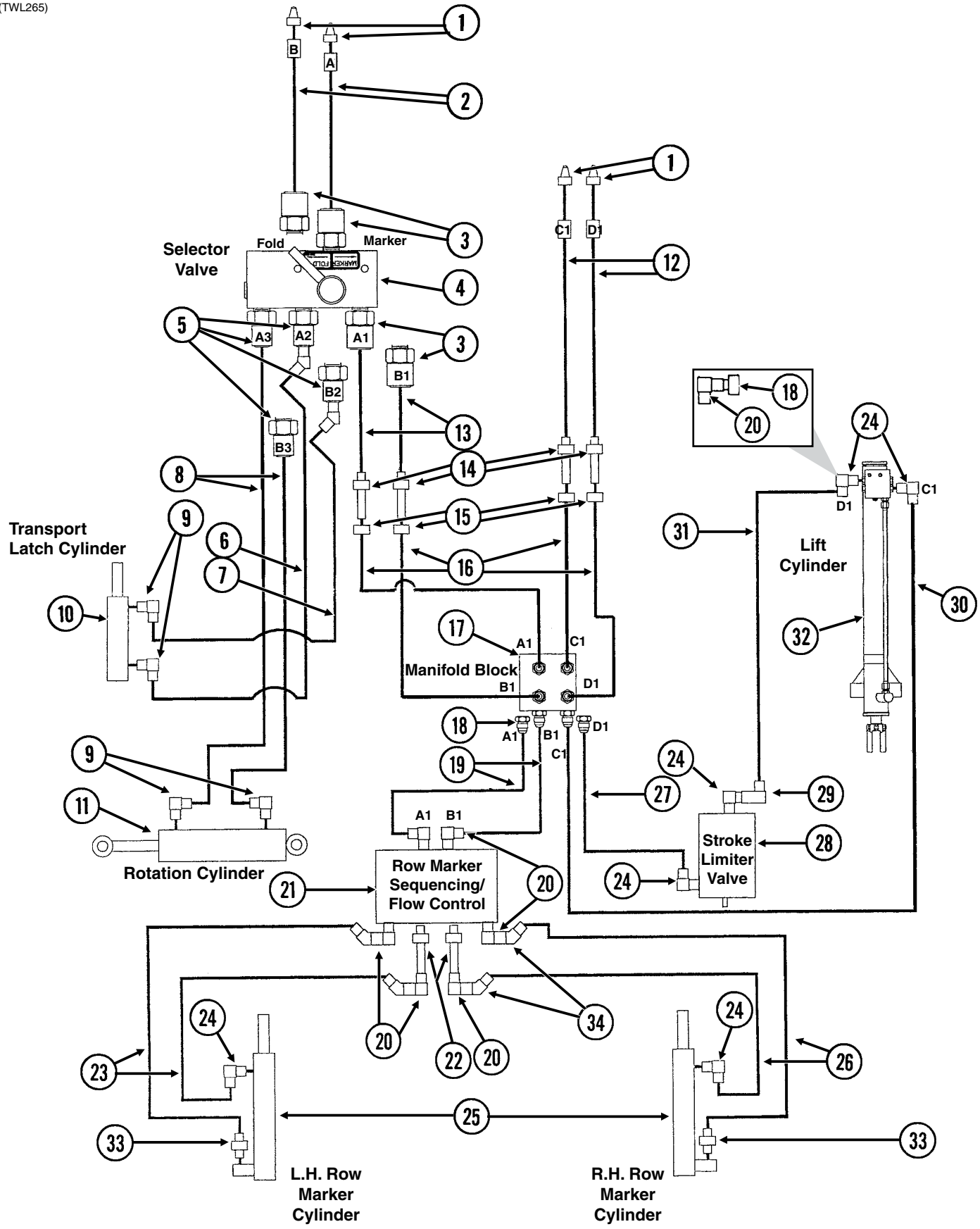
****Style A and B are determined by block color. Style A block will be yellow/zinc in color and manufactured by Shoemaker Inc. Style B block will be black in color and manufactured by Delta Power Company.**

*****Item is part of detent kit (GR2203), item can not be purchased individually**

******Item is part of seal kit (GA20822), item can not be purchased individually.**

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(TWL265)


Selector Valve
Fold
Marker
Transport Latch Cylinder
Manifold Block
Lift Cylinder
Rotation Cylinder
Row Marker Sequencing/ Flow Control
Stroke Limiter Valve
L.H. Row Marker Cylinder
R.H. Row Marker Cylinder
A1
A2
A3
B1
B2
B3
C1
D1

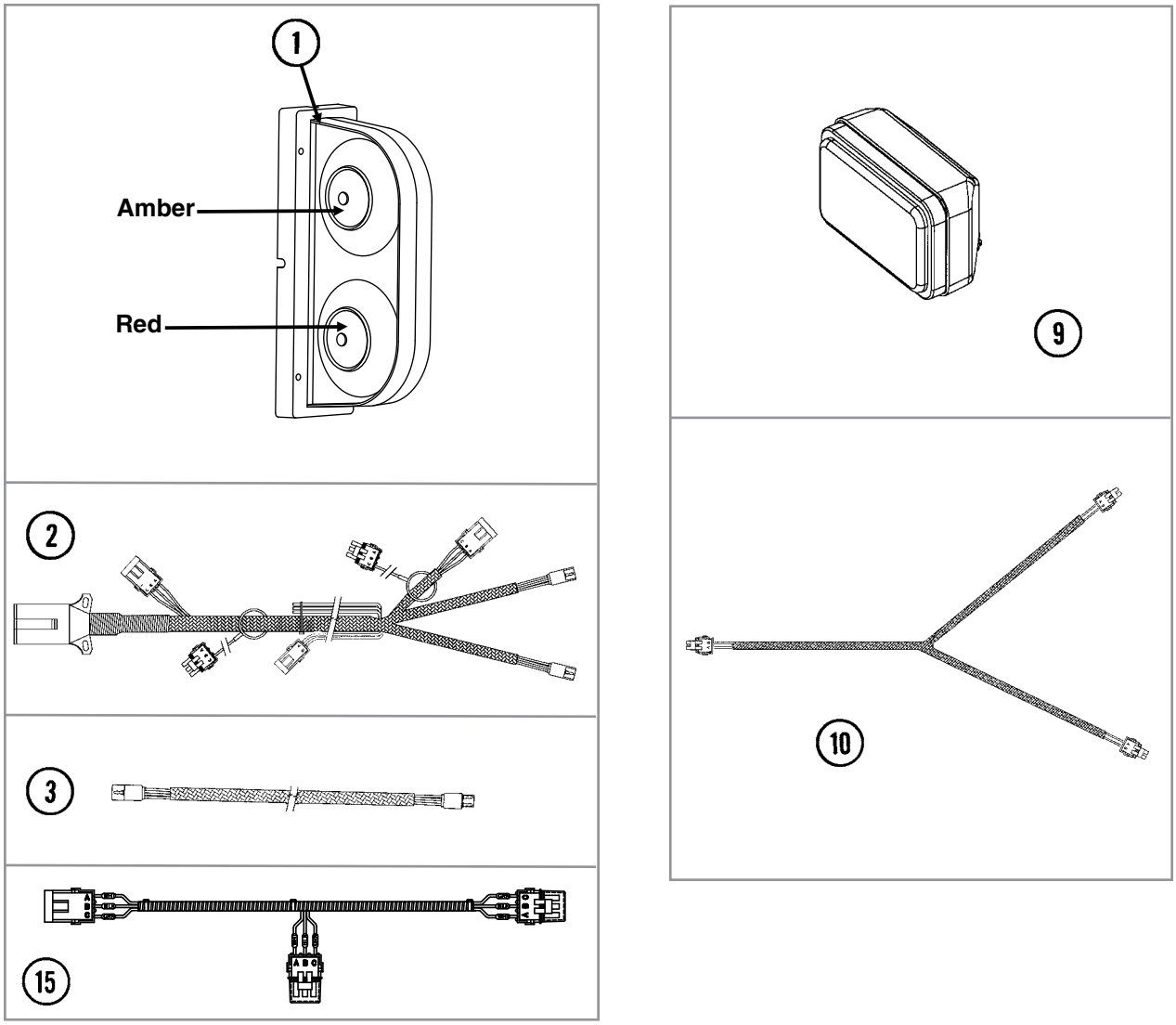
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD4086	4	ISO Coupler
2	*A15008	2	Hose Assembly, ⅜" x 114"
3	G6400-08-06 GR1045	4 -	Connector W/O-Ring, ¾"-16 Male JIC To 9⁄16"-18 O-Ring O-Ring
4	---	-	See “Selector Valve” on page P100
5	G6400-06 GR1045	4 -	Connector W/O-Ring, 9⁄16"-18 Male JIC To O-Ring O-Ring
6	*A1153 *A1194	1 -	Hose Assembly, ¼" x 56", 6 Row 30" Hose Assembly, ¼" x 30", 8 Row 30"
7	*A1141 *A1195	1 -	Hose Assembly, ¼" x 62", 6 Row 30" Hose Assembly, ¼" x 34", 8 Row 30"
8	*A1109	2	Hose Assembly, ¼" x 145"
9	G6801-06-08 GR1037	4 -	Elbow W/O-Ring, 90°, 9⁄16"-18 Male JIC To ¾"-16 O-Ring O-Ring
10	---	-	See “Transport Latch Cylinder, All Sizes” on page P95
11	---	-	See “Rotation Cylinder” on page P95
12	*A15007	2	Hose Assembly, ⅜" x 272"
13	*A1026	2	Hose Assembly, ⅜" x 152"
14	G2700-08	4	Bulkhead Tube Union, ¾"-16 Male JIC
15	G306-08	4	Lock Nut, ¾"-16
16	*A1021	4	Hose Assembly, ⅜" x 56"
17	---	-	See “Frame Assembly” on page P71
18	G6400-08 GR1037	8 -	Connector W/O-Ring, ¾"-16 Male JIC To O-Ring O-Ring
19	*A1002	2	Hose Assembly, ⅜" x 20"
20	G6500-08-06	6	Swivel Elbow, 90°, ¾"-16 Male JIC To 9⁄16"-18 Female
21	---	-	See “Row Marker Sequencing/Flow Control Valve” on page P101
22	G6400-L-06 GR1045	2 -	Long Connector W/O-Ring, 9⁄16"-18 Male JIC To O-Ring O-Ring
23	*A3115 *A1078	2 -	Hose Assembly, ⅜" x 146", 6 Row 30" Hose Assembly, ⅜" x 174", 8 Row 30"
24	G6801-08 GR1037	6 -	Elbow W/O-Ring, 90°, ¾"-16 Male JIC To O-Ring O-Ring
25	---	-	See “Row Marker Cylinder” on page P99
26	*A1041 *A1090	2 -	Hose Assembly, ⅜" x 130", 6 Row 30" Hose Assembly, ⅜" x 162", 8 Row 30"
27	*A1076	1	Hose Assembly, ⅜" x 30"
28	---	-	See “Stroke Limiter Valve” on page P100 and See “Frame Assembly” on page P71
29	G6500-08	1	Swivel Elbow, 90°, ¾"-16 Male JIC To Female
30	*A1055	3	Hose Assembly, ⅜" x 66"
31	*A1018	1	Hose Assembly, ⅜" x 40"
32	---	-	See “Lift Cylinder” on page P97
33	G6400-08 GR1037 G6400-08-04 GR1465	2 - 2 -	Connector W/O-Ring, ¾"-16 Male JIC To O-Ring O-Ring Connector W/O-Ring, ¾"-16 Male JIC To 7⁄16"-20 O-Ring O-Ring
34	G6502-08	4	Swivel Elbow, 45°, ¾"-16 Male JIC To Female

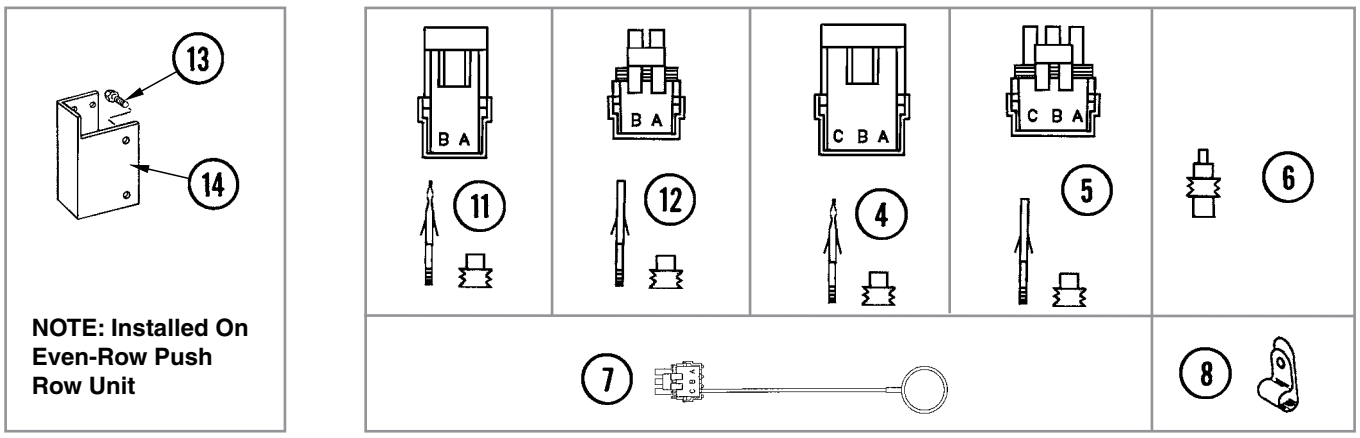
*** Hydraulic hose is not stocked by Kinze Repair Parts.**

(TWL23/A9152a/ELC38/MTR27t/MTR27a/ELC8/ELC39/A9689/A10924)

See “Digital Vacuum Gauge, Analog Vacuum Gauge, and Vacuum Fan Assembly” on page P51 for vacuum gauge electrical components.

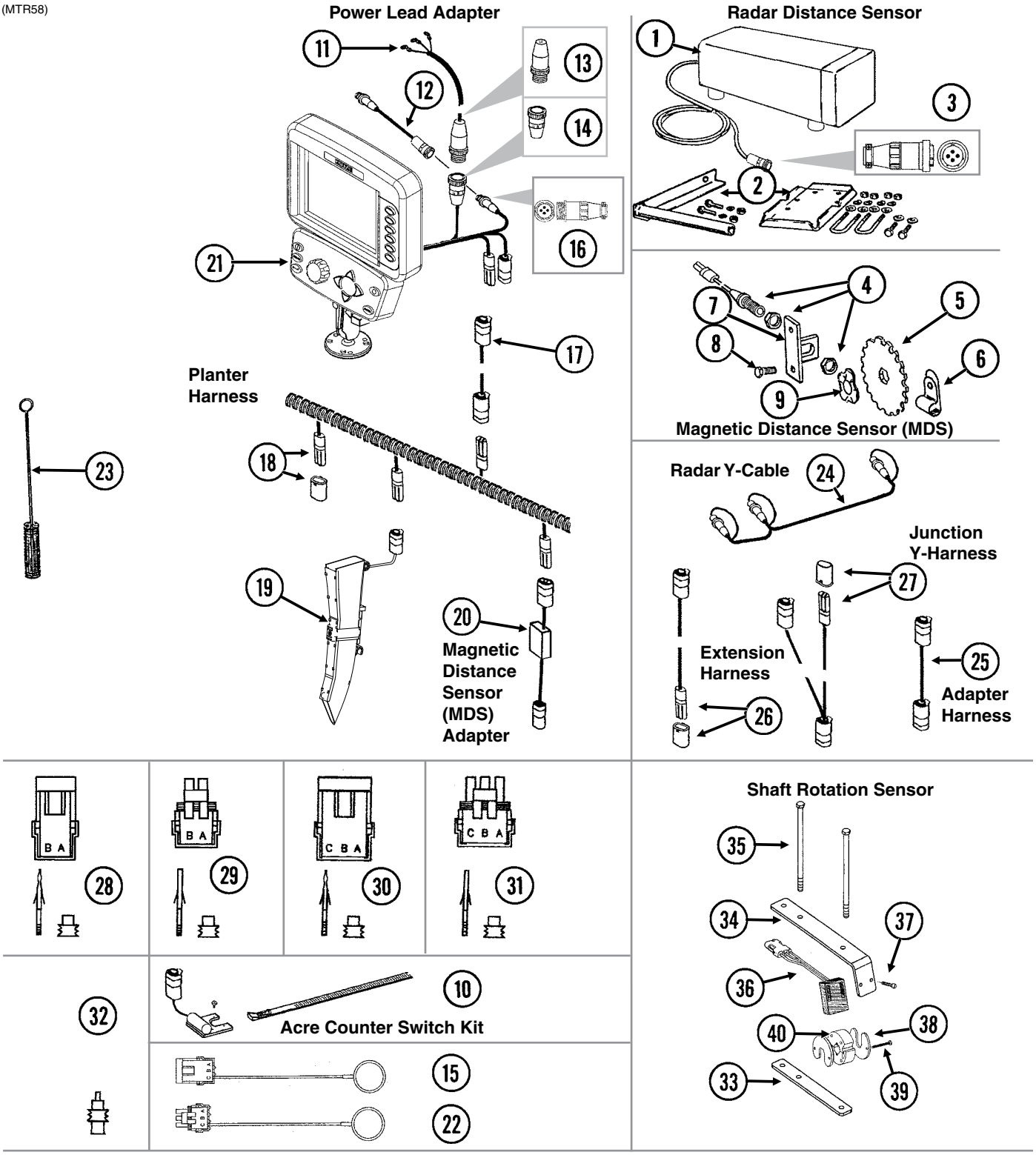
See “Frame Assembly” on page P71 for light brackets.





ITEM	PART NO.	QTY.	DESCRIPTION
1	GA6699	1	Double Light Assembly
	GA6700	1	Double Light Assembly (Shown)
	GR1956	-	Amber Lens Kit, Includes: (1) Amber Lens, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6699 and GA6700)
	GR1957	-	Red Lens Kit, Includes: (1) Red Lens, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6699 and GA6700)
	GR1958	-	Black Cover Kit, Includes: (1) Black Cover, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6699 and GA6700)
	GR1208	-	Bulb
2	GA9152	-	Wiring Harness W/7 Terminal Female Connector, 516" (2 Light Connections), 6 Row 30"
	GA9153	-	Wiring Harness W/7 Terminal Female Connector, 564" (2 Light Connections), 8 Row 30"
	GA5385	-	7 Terminal Female Connector (Included W/GA9152 and GA9153)
3	GA9096	2	Harness Extension, 42"
4	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
5	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
6	GD11089	-	Sealing Plug
7	GA8047	-	Dust Plug (Black)
8	GD6291	1-2	Insulated Clamp, ⅜"
	GD22965	-	Insulated Clamp, ¼"
	G11091	-	Serrated Flange Nut, ⅜"-16
9	GA15101	2	Work Light Assembly
	GR1981	-	Bulb H3-55W
10	GA10924	1	Wiring Harness, 348"
11	G1K321	-	2-Pin Female Connector Kit (Black), Includes: (3) 2-Pin Female Housings, (6) Pin Contacts, (6) Seals
12	G1K320	-	2-Pin Male Connector Kit (Black), Includes: (3) 2-Pin Male Housings, (6) Socket Contacts, (6) Seals
13	G10001	2	Hex Head Cap Screw, ⅜"-16 x 1"
	G10229	2	Lock Washer, ⅜"
	G10101	2	Hex Nut, ⅜"-16
14	GD12703	1	Push Row Unit Light Bracket
15	GA13551	-	Tee Junction Harness

(MTR58)


Power Lead Adapter
Radar Distance Sensor
Magnetic Distance Sensor (MDS)
Planter Harness
Radar Y-Cable
Junction Y-Harness
Extension Harness
Adapter Harness
Magnetic Distance Sensor (MDS) Adapter
Shaft Rotation Sensor
Acre Counter Switch Kit
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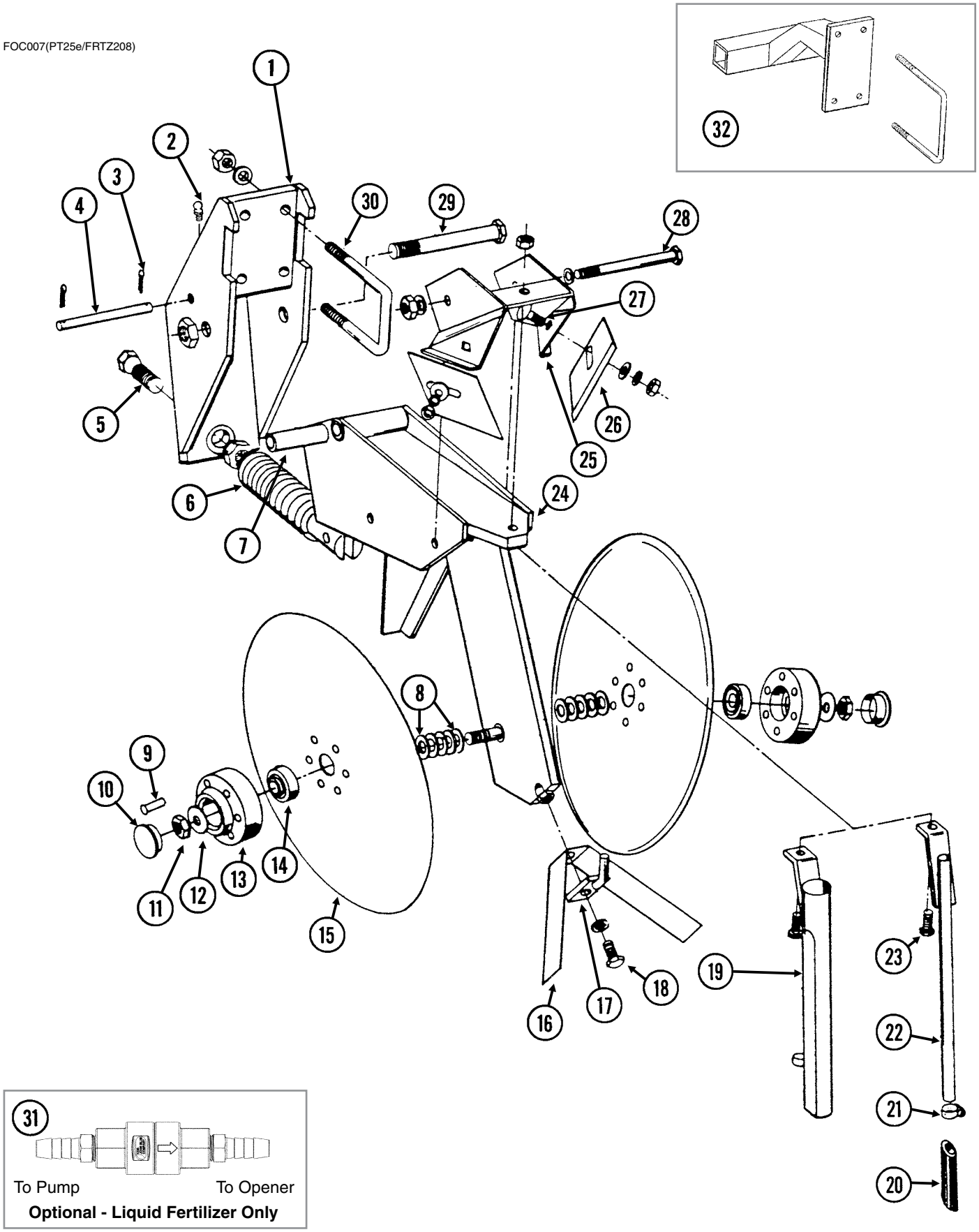
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7858	-	Radar Distance Sensor W/20' Cable
2	GA8026	-	Radar Sensor Pipe/Mounting Bracket Package
3	G1K323	-	4-Pin Connector Kit W/Female Housing, Includes: (4) Pins And (1) Cable Clamp
4	GA5600	1	Magnetic Distance Sensor
5	GD8751	-	Magnetic Distance Sensor Pulse Wheel
6	GD13348	-	Insulated Clamp, 1 1/16"
7	GD8770	1	Bracket
8	G10001 G10229 G10101	2 2 2	Hex Head Cap Screw, 3/8"-16 x 1" Lock Washer, 3/8" Hex Nut, 3/8"-16
9	GD8771	1	Spring Wave Washer
10	G1K249	-	Acre Counter Switch Kit
11	GA17547	1	Power Adapter Cable
12	GA9144	-	Monitor/Radar Adapter Cable, 10"
13	G1K267	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (3) Male Terminal Pins
14	G1K268	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (1) Lock Ring, (3) Female Terminal Pins
15	GA8046	-	Dust Plug (Black)
	GA9978	-	Dust Plug (Blue)
16	G1K322	-	4-Pin Connector Kit W/Male Housing, Includes: (4) Female Socket Contacts And (1) Cable Clamp
17	---	-	Included In Light Wiring Harness, See Item 2, page P105
18	GA8021 GA8022 GA7850 GB1090	- - - - 	Planter Harness W/Dust Caps, 4 Row (7 Connectors) Planter Harness W/Dust Caps, 6 Row (9 Connectors) (6 Row Mechanical) Planter Harness W/Dust Caps, 8 Row (12 Connectors) (6 Row Vacuum and 8 Row Mechanical/Vacuum) Dust Cap (Included W/GA8021, GA8022, and GA7850)
19	GA21515 GA20902	- -	Seed Tube W/Computerized Sensor Seed Tube (With Holes For Sensor Installation)
20	GA7859	1	Magnetic Distance Sensor Adapter (Analog To Digital)
21	8647x GA12403 GR1762 GA16082	1 - - -	KPM III Backlit Console W/Brush (Item 23), Dust Plug (Item 22), Console Mounting Bracket Hardware And Power Harness Mounting Bracket Assembly, Includes: (2) Mounting Brackets, (2) Connector Halves, (1) Compression Spring, (1) Tension Knob, (1) 1/4"-20 x 1 3/4" Hex Head Cap Screw, (1) 1/4" Plastic Washer, (1) 1/4" Steel Washer Console Mounting Bracket Hardware Package, Includes: (3) No. 10-32 x 5/8" Hex Socket Pan Head Plated Screws, (3) 1/4" Plated Lock Washers KPM III Console Power Harness
22	GA8047 GA9978	- -	Dust Plug (Black) Dust Plug (Blue)
23	GR0594	-	Brush
24	GR0586	1	Radar Y-Cable (Used To Connect Radar Distance Sensor For Multiple Functions)
25	GA7857	-	Adapter Harness, 1'
26	GA7854 GA7855 GB1090	- - -	Extension Harness W/Dust Cap, 15' Extension Harness W/Dust Cap, 30' Dust Cap (Included W/GA7854 and GA7855)
27	GA7853 GB1090	- -	Junction Y-Harness W/Dust Cap Dust Cap (Included W/GA7853)

Continued on the next page.

ITEM	PART NO.	QTY.	DESCRIPTION
28	G1K321	-	2-Pin Female Connector Kit (Black), Includes: (3) 2-Pin Female Housings, (6) Pin Contacts, (6) Seals
29	G1K320	-	2-Pin Male Connector Kit (Black), Includes: (3) 2-Pin Male Housings, (6) Socket Contacts, (6) Seals
30	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
	G1K362	-	3-Pin Female Connector Kit (Blue), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
31	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
	G1K363	-	3-Pin Male Connector Kit (Blue), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
32	GD11089	-	Sealing Plug
33	GD18168	2	Mount
34	GD18118	2	Shaft Sensor Mount
35	G10686	4	Hex Head Cap Screw, 3/8”-16 x 8”
	G10229	4	Lock Washer, 3/8”
	G10101	4	Hex Nut, 3/8”-16
36	GR1415	1	Rotation Sensor
37	G11288	2	Pan Head Screw, No. 10-32 x 1 ¼”
	G10243	2	Washer, No. 10 SAE
	G10758	2	Hex Nut, No. 10-32
38	GD11474	2	Cover
39	G10927	2	Pan Head Machine Screw, No. 8-32 x 1 1/4”, Stainless Steel
	G10931	2	Lock Washer, No. 8, Internal/External, Stainless Steel
	G10928	2	Hex Nut, No. 8-32, Stainless Steel
40	GR1414	1	Actuator
A	GA6147	-	Magnetic Distance Sensor And Mounting Package (Items 4-9)
B	GR1763	-	KPM III Loaner (Display Only)
C	GA13521	-	Shaft Sensor Mounting Package (Items 33-35 and 37-39)
D	GA8135	-	Shaft Rotation Kit, Includes: (2) Actuators (2) Rotation Sensors

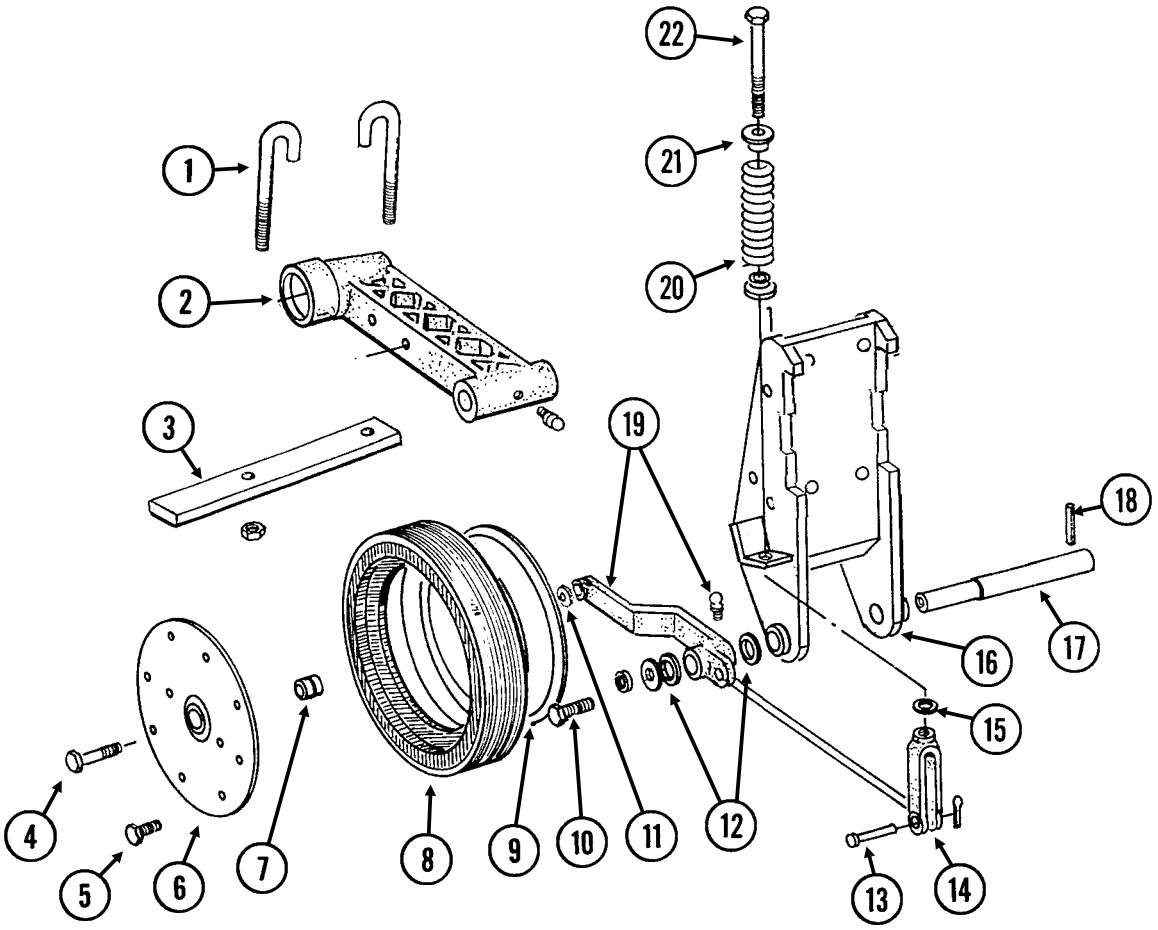
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FOC007(PT25e/FRTZ208)



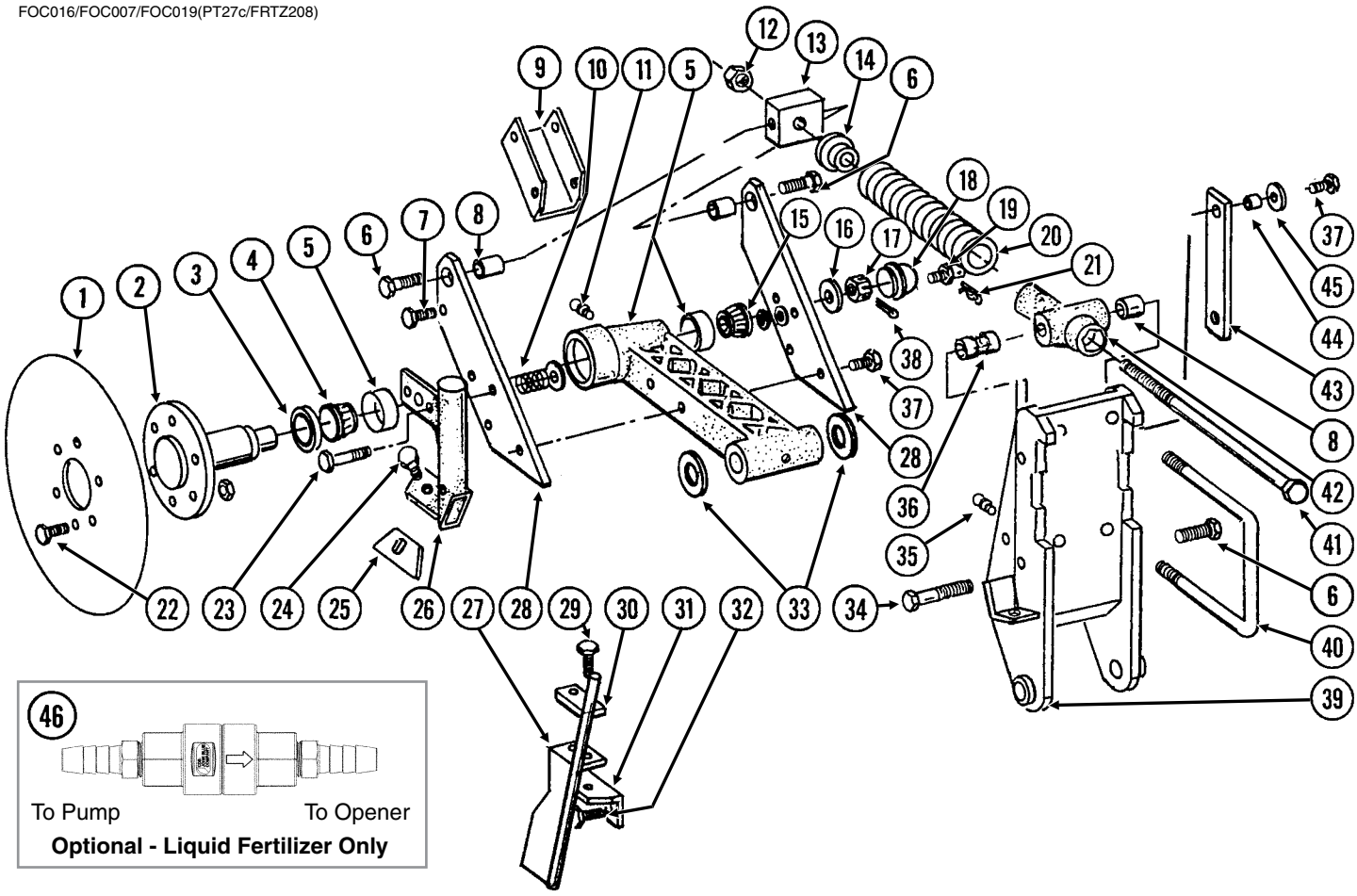
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GA8483	1	Bracket
2	G10938	1	Grease Fitting, ¼"-28, Taper Threads
3	G10451	2	Cotter Pin, ⅛" x 1"
4	GD1657	1	Lockup Pin
5	GD0962	1	Hex Head Adjusting Bolt, ⅝"-18 x 3¼"
	G10499	1	Hex Jam Nut, ⅝"-18, Grade 2
6	GA0328	1	Spring
7	GD0487	1	Bushing, 41⁄64" I.D. x 3½" Long
8	GD30725	-	Machine Bushing, ⅝" (.030" Thick)
9	G10542	12	Rivet, ¼" x 15⁄16"
10	GD1132	2	Dust Cap
11	G10503	1	Hex Jam Nut, ⅝"-11, Grade 2
	G10504	1	Hex Jam Nut, ⅝"-11, L.H. Threads, Grade 2
12	G10204	2	Special Machine Bushing, ⅝" x 1" O.D.
13	GB0134	2	Hub
14	GA2014	2	Bearing
15	GD11306	2	Disc Blade, 3.5 mm x 15"
16	GD2589	1	Inner Scraper
17	GA0312	1	Mount
18	G10019	1	Hex Head Cap Screw, 5⁄16"-18 x 1"
	G10232	1	Lock Washer, 5⁄16"
19	GA1369	-	Drop Tube, Dry Fertilizer
20	GD11705	-	Extension
21	G10681	-	Hose Clamp, No. 6
22	GA8685	-	Drop Tube, Liquid Fertilizer
23	G10133	1	Hex Head Cap Screw, 5⁄16"-18 x 1½"
	G11386	-	Flat Washer, 5⁄16" SAE
	G10109	1	Lock Nut, 5⁄16"-18, Grade 8
24	GA9195	1	Shank
25	GA0810	1	Scraper Mount
26	GD1673	2	Scraper
27	G10305	2	Carriage Bolt, ⅜"-16 x 1"
	G11387	2	Flat Washer, ⅜" SAE
	G10229	2	Lock Washer, ⅜"
	G10101	2	Hex Nut, ⅜"-16
28	G10045	1	Hex Head Cap Screw, ½"-13 x 4½"
	G10111	1	Lock Nut, ½"-13
29	G10046	1	Hex Head Cap Screw, ⅝"-11 x 5"
	G10107	1	Lock Nut, ⅝"-11
30	GD1138	2	U-Bolt, 2½" x 2½" x ½"-13
	G11389	4	Flat Washer, ½" Plated SAE
	G10111	4	Lock Nut, ½"-13
31	GA15416	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, ¼" Male NPT To ⅜" Barb
32	GA7135	-	Mount W/U-Bolts (One Per Opener)
	GD1113	-	U-Bolt, 5" x 7" x ⅝"-11 (Included W/GA7135)
	G10230	-	Lock Washer, ⅝" (Included W/GA7135)
	G10104	-	Hex Nut, ⅝"-11 (Included W/GA7135)
A	GA8845	-	Disc Blade And Bearing Assembly (Items 9 And 13-15)

(TWL35d)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD9705 G10228 G10102	2 2 2	J-Bolt, ½"-13 Lock Washer, ½" Hex Nut, ½"-13
2	---	-	See “HD Single Disc Fertilizer Opener (Blade and Drop Tube)” on page P116
3	GD9706	1	Lockup Bar
4	G10010	1	Hex Head Cap Screw, ⅝"-11 x 3"
5	G10961 G10620	11 11	Flanged Whiz Lock Screw, 5⁄16"-18 x ⅝", No Serration Serrated Flange Nut, 5⁄16"-18
6	GD26598	1	Half Wheel Cover, Black
7	GA6171	1	Bearing
8	GD11953	1	Offset Tire
9	GD31466	1	Half Wheel, Black
10	G10438 G10228 G11389	1 1 1	Hex Head Cap Screw, ½"-13 x ¾" Lock Washer, ½" Flat Washer, ½" SAE
11	G10230	1	Lock Washer, ⅝"
12	G10526	10	Machine Bushing, 1" (.048" Thick)
13	G10560 G10456	1 1	Clevis Pin, ½" x 1¾" Cotter Pin, ⅛" x ¾"
14	GD8218	1	Yoke
15	G11391	1	Flat Washer, ⅝" SAE
16	---	-	See “HD Single Disc Fertilizer Opener (Blade and Drop Tube)” on page P116
17	GD7911	1	Pivot Pin
18	G10610	1	Spring Pin, ⅜" x 2"
19	GA8306 GA8305 G10640	- 1 1	Wheel Arm W/Grease Fitting, R.H. Wheel Arm W/Grease Fitting, L.H. (Shown) Grease Fitting, ¼"-28 (Included W/GA8305 and GA8306)
20	GD8308	1	Spring
21	GB0212	2	Spring Washer
22	GD9709	1	Special Bolt
A	G1K215	-	Lockup Kit (Items 1 And 3)
B	GA18311	-	Gauge Wheel Complete (Items 5-9)

FOC016/FOC007/FOC019(PT27c/FRTZ208)

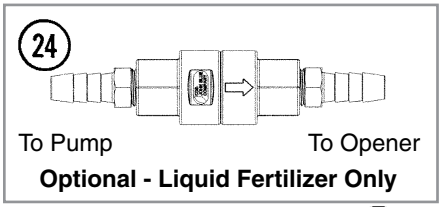


ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD7900	1	Disc Blade, 18"
	GD8247	-	Disc Blade, 20" (Optional)
2	GB0205	1	Spindle
3	GA4286	1	Seal
4	GA4287	1	Bearing
5	GA5887	1	Arm W/Cups And Washers
	GD6553	-	Inner Cup (Included W/GA5887)
	GR0188	-	Outer Cup (Included W/GA5887)
	G11391	3	Flat Washer, 5/8" SAE (Included W/GA5887)
6	G10007	3	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
7	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10108	2	Lock Nut, 3/8"-16
8	GB0218	3	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
9	GD8238	1	Channel
10	GD7962	2	Spring
11	G10641	2	Grease Fitting, 1/8" NPT
12	G10105	3	Hex Nut, 3/4"-10
13	GD7908	1	Tap Block
14	GB0213	1	Spring Seat
15	GA0237	1	Bearing
16	G10220	1	Machine Bushing, 1 1/16", 10 Gauge

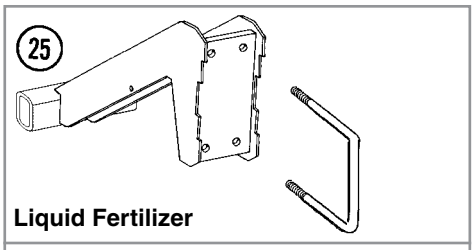
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
17	G10507	1	Slotted Nut, 1"-14
18	GD1104	1	Dust Cap
19	GD8276	1	Pin
	G10237	1	Lock Washer, 7⁄16"
	G10100	1	Hex Nut, 7⁄16"-14
20	GD10273	1	Compression Spring
21	G10592	1	Hair Pin Clip, No. 11
22	G10594	6	Bolt, ½"-13 x 1½"
	G10111	6	Lock Nut, ½"-13
23	G10049	2	Hex Head Cap Screw, ⅜"-16 x 2½"
	G11387	2	Flat Washer, ⅜" SAE
	G10108	2	Lock Nut, ⅜"-16
24	G10599	1	Carriage Bolt, ⅜"-16 x 1¼"
	G11387	1	Flat Washer, ⅜" SAE
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
25	GD7912	1	Scraper
26	GB0210	-	Drop Tube, R.H., Dry Fertilizer
	GB0209	1	Drop Tube, L.H., Dry Fertilizer (Shown)
27	GA8689	1	Drop Tube, L.H., Liquid Fertilizer (Shown)
	GA8688	-	Drop Tube, R.H., Liquid Fertilizer
28	GD8224	2	Bar
29	G10004	2	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G10229	2	Lock Washer, ⅜"
30	GD10487	1	Clamp
31	GD10304	-	Angle, R.H.
	GD10303	1	Angle, L.H. (Shown)
32	G10016	2	Hex Head Cap Screw, ½"-13 x 2"
	G10111	2	Lock Nut, ½"-13
33	G10322	-	Machine Bushing, 1¼", 18 Gauge (As Required)
34	G10862	1	Hex Head Cap Screw, ⅝"-11 x 3¼"
	G11391	2	Flat Washer, ⅝" SAE
	G10230	1	Lock Washer, ⅝"
35	G10640	1	Grease Fitting, ¼"-28
36	GD10242	1	Bushing, 2¼"
37	G10039	5	Hex Head Cap Screw, ½"-13 x 1¾"
	G10111	5	Lock Nut, ½"-13
38	G10459	1	Cotter Pin, 3⁄16" x 1½"
39	GA7240	-	Opener Mount, R.H.
	GA7239	1	Opener Mount, L.H. (Shown)
40	GD1113	2	U-Bolt, 5" x 7" x ⅝"-11
	G10230	4	Lock Washer, ⅝"
	G10104	4	Hex Nut, ⅝"-11
41	GD7907	1	Special Bolt
42	GB0206	1	Rod Guide
43	GD8239	1	Storage Strap
44	GD7904-02	1	Sleeve, ½" x ½" Long
45	G11389	3	Flat Washer, ½" SAE
46	GA15416	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, ¼" Male NPT To ⅜" Barb

FOC018(TWL34e/TWL34f/TWL34g/FRTZ268b/FRTZ208)

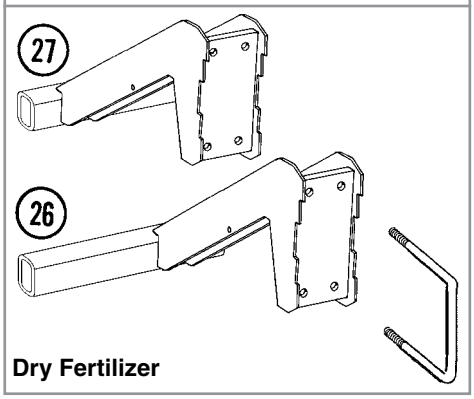
NOTE: R.H. and L.H. is determined by which side of blade it is on in the direction of travel.



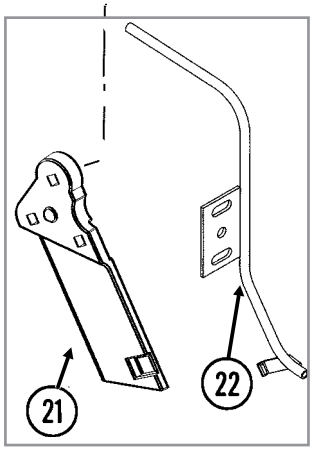
Optional - Liquid Fertilizer Only

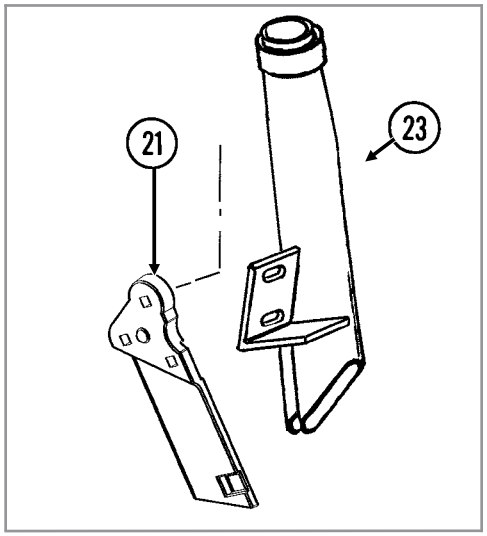


Liquid Fertilizer



Dry Fertilizer





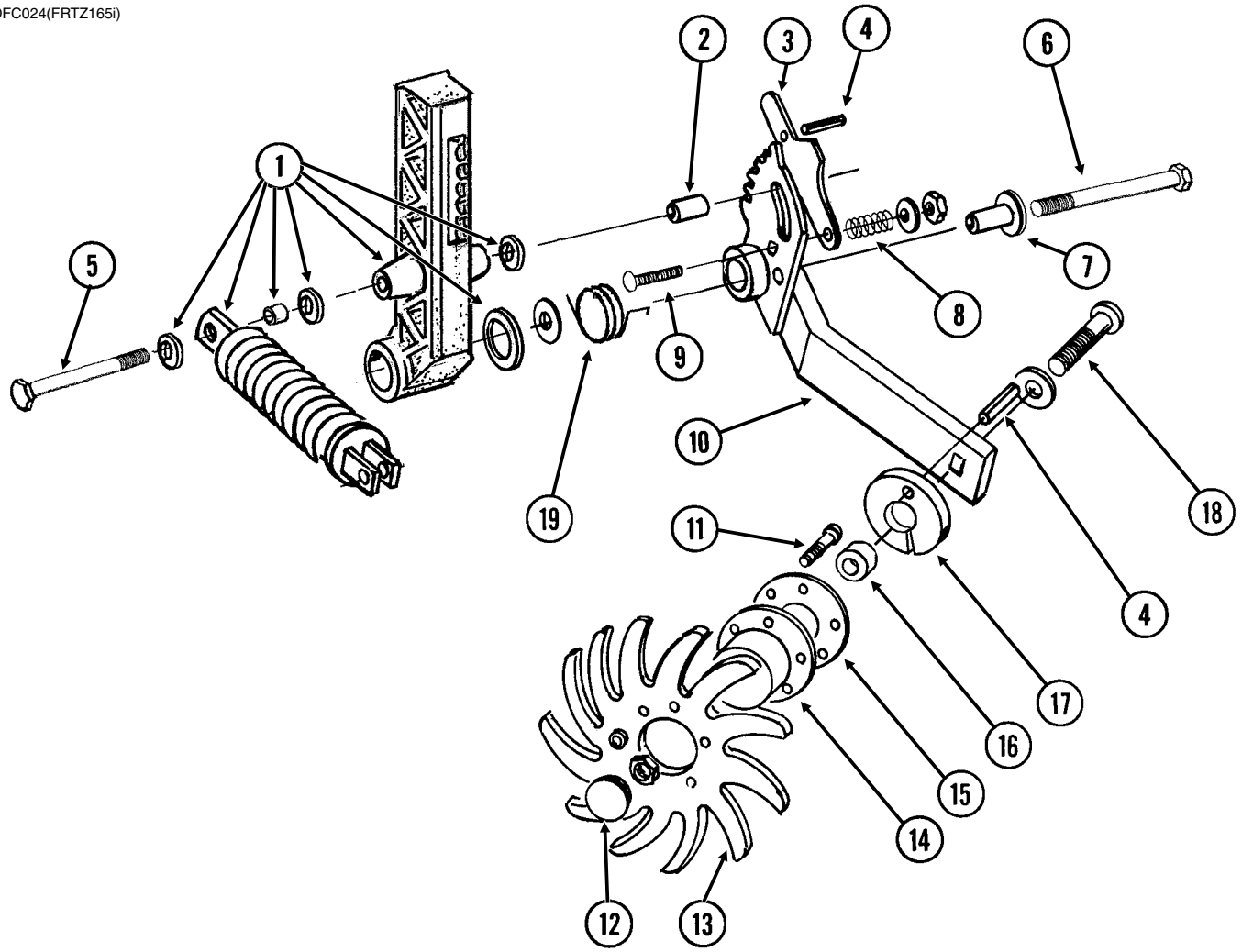
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10017	3	Hex Head Cap Screw, ½"-13 x 1½"
	G10102	3	Hex Nut, ½"-13
2	GB0405	1	Mount, L.H.
	GB0400	-	Mount, R.H. (Shown)
3	GB0296	1	Arm, 13 ½"
4	G10640	1	Grease Fitting, ¼"-28
5	GD12685	1	Bushing, ¾" O.D. x ½" Long
6	GA6966	1	Compression Spring Assembly
7	G10047	1	Hex Head Cap Screw, ⅜"-16 x 1¾"
	G11387	2	Flat Washer, ⅜" SAE
	G10108	1	Lock Nut, ⅜"-16
8	GD1026	1	Sleeve, 1 3⁄16" Long
9	GA9433	1	Pivot Arm, L.H. (Shown)
	GA9434	-	Pivot Arm, R.H.
10	GD11557	1	Scraper, L.H. (Shown)
	GD11558	-	Scraper, R.H.
11	G10002	6	Hex Head Cap Screw, ⅜"-16 x ¾"
12	G10306	3	Carriage Bolt, ⅜"-16 x 2"
	G10108	3	Lock Nut, ⅜"-16
13	G10991	2	Hex Head Cap Screw, 5⁄16"-18 x ⅞"
	G10232	2	Lock Washer, 5⁄16"
	G11386	6	Flat Washer, 5⁄16" SAE
14	GD12679	1	Stepped Spacer, 3" Long
15	GA9437	1	Hub W/Bearing
	GA8603	-	Bearing, Double Row (Included W/GA9437)
16	G10011	1	Hex Head Cap Screw, ⅝"-11 x 5½"
17	G10046	1	Hex Head Cap Screw, ⅝"-11 x 5"
18	GD12676	1	Disc Blade, Notched, 16¾"
19	G10871	1	Hex Head Cap Screw, ½"-13 x 6"
20	GD13287	2	U-Bolt, 1½" x 2½" x ½"-13
	G11389	4	Flat Washer, ½" Plated SAE
	G10111	4	Lock Nut, ½"-13
21	GB0323	1	Knife, L.H. (Shown)
	GB0322	-	Knife, R.H.
22	GA12108	1	Drop Tube, Liquid Fertilizer (Shown)
	GA12109	-	Drop Tube, Liquid Fertilizer
23	GA10047	1	Drop Tube, L.H., Dry Fertilizer
	GA10048	-	Drop Tube, R.H., Dry Fertilizer (Shown)
24	GA15416	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, ¼" Male NPT To ⅜" Barb
25	GA9565	1	Opener Mount Assembly, Liquid Fertilizer
	GA9564	1	Opener Mount (Included W/GA9565)
	GD1113	2	U-Bolt, 5" x 7" x ⅝"-11 (Included W/GA9565)
	G10230	4	Lock Washer, ⅝" (Included W/GA9565)
	G10104	4	Hex Nut, ⅝"-11 (Included W/GA9565)
26	GA9821	-	Opener Mount Assembly, L.H., Dry Fertilizer
	GA9819	1	Opener Mount (Included W/GA9821)
	GD1113	2	U-Bolt, 5" x 7" x ⅝"-11 (Included W/GA9821)
	G10230	4	Lock Washer, ⅝" (Included W/GA9821)
	G10104	4	Hex Nut, ⅝"-11 (Included W/GA9821)

Continued on the next page.

ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
27	GA9822	-	Opener Mount Assembly, R.H., Dry Fertilizer
	GA9820	1	Opener Mount (Included W/GA9822)
	GD1113	2	U-Bolt, 5" x 7" x ⅝"-11 (Included W/GA9822)
	G10230	4	Lock Washer, ⅝" (Included W/GA9822)
	G10104	4	Hex Nut, ⅝"-11 (Included W/GA9822)
28	G10450	-	Machine Bushing, 1½", 18 Gauge (As Required)
29	GD12677	1	Washer, 1½" O.D., 7 Gauge, Hardened
30	G11389	-	Flat Washer, ½" Plated SAE
31	G10107	-	Lock Nut, ⅝"-11
32	G10111	-	Lock Nut, ½"-13
33	G11391	-	Flat Washer, ⅝" SAE
34	G10217	-	Washer, ⅝" USS

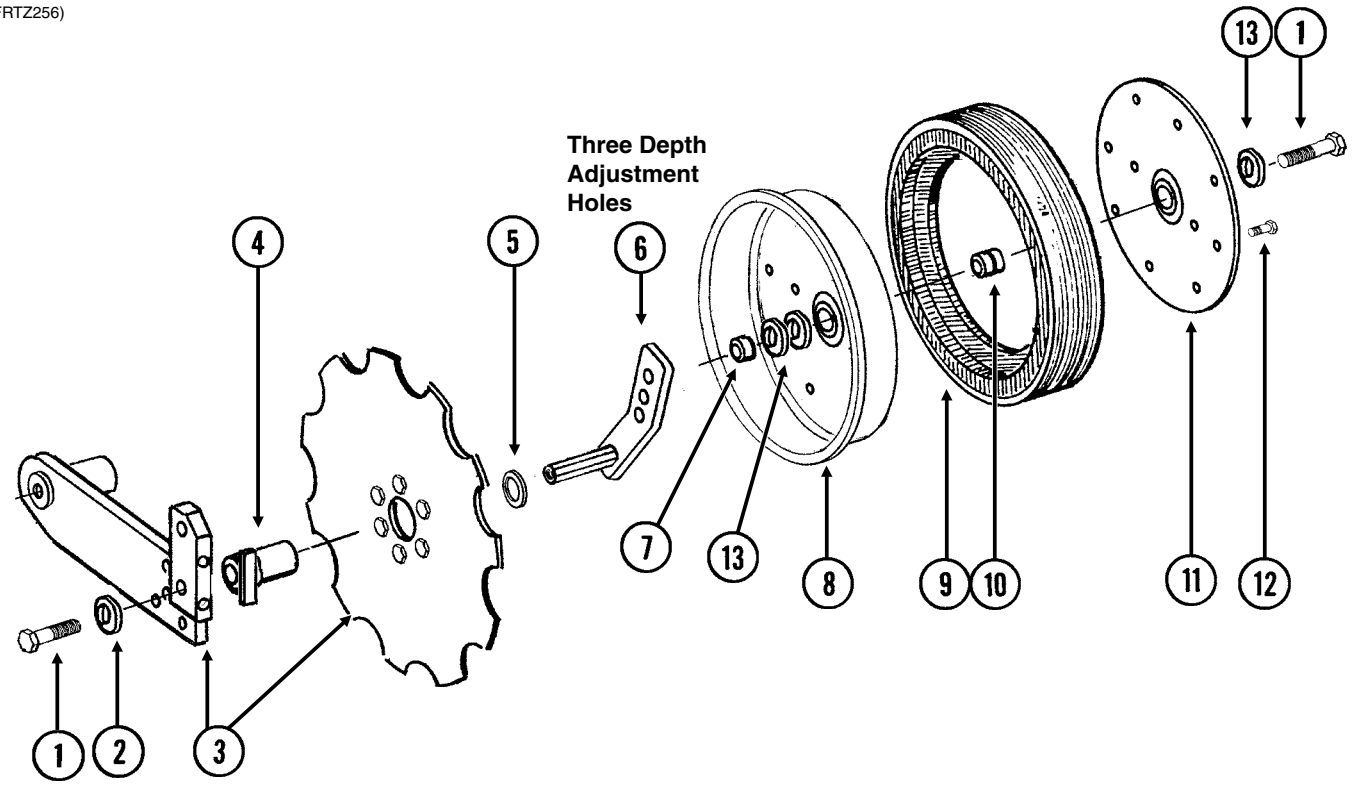
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DFC024(FRTZ165i)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	---	-	See “Notched Single Disc Fertilizer Opener” on page P117
2	GD12684	1	Bushing, 1⅓" Long
3	GD11178	1	Adjustment Lever
4	G10603	2	Spring Pin, ¼" x 1¼"
5	G11034 G10111	1 1	Hex Head Cap Screw, ½"-13 x 7" Lock Nut, ½"-13
6	G10830 G11391 G10107	1 1 1	Hex Head Cap Screw, ⅝"-11 x 7½" Flat Washer, ⅝" SAE Lock Nut, ⅝"-11
7	GD11836	1	Sleeve, 2⅛" Long
8	GD7962	1	Spring
9	G10306 G11387 G10108	1 1 1	Carriage Bolt, ⅜"-16 x 2" Flat Washer, ⅜" SAE Lock Nut, ⅜"-16
10	GA7999 GA7998 G10640	1 - -	Mount W/Grease Fitting, L.H. (Shown) Mount W/Grease Fitting, R.H. Grease Fitting, ¼"-28 (Included W/GA7998 and GA7999)
11	G10133 G10109	6 6	Hex Head Cap Screw, 5⁄16"-18 x 1½" Lock Nut, 5⁄16"-18, Grade 8
12	GD1132	2	Dust Cap
13	GD10552	2	Wheel, 12 Tine, ⅜" x 12"
14	GA5654 GA2014	1 -	Hub W/Bearings Bearing
15	GD9724	1	Backing Plate
16	GD7817-04	1	Spacer, 11⁄16" I.D. x ½" Long
17	GD11188	1	Spacer
18	G10908 G10503	1 1	Carriage Bolt, ⅝"-11 x 3" Hex Jam Nut, ⅝"-11, Grade 2
19	GD11265 GD11266	1 -	Spring, L.H. (Shown) Spring, R.H.
A	GA7445 GA7446	- -	Wheel Assembly, 12 Tine, L.H. (Items 11 And 13-15)(Shown) Wheel Assembly, 12 Tine, R.H. (Items 11 And 13-15)

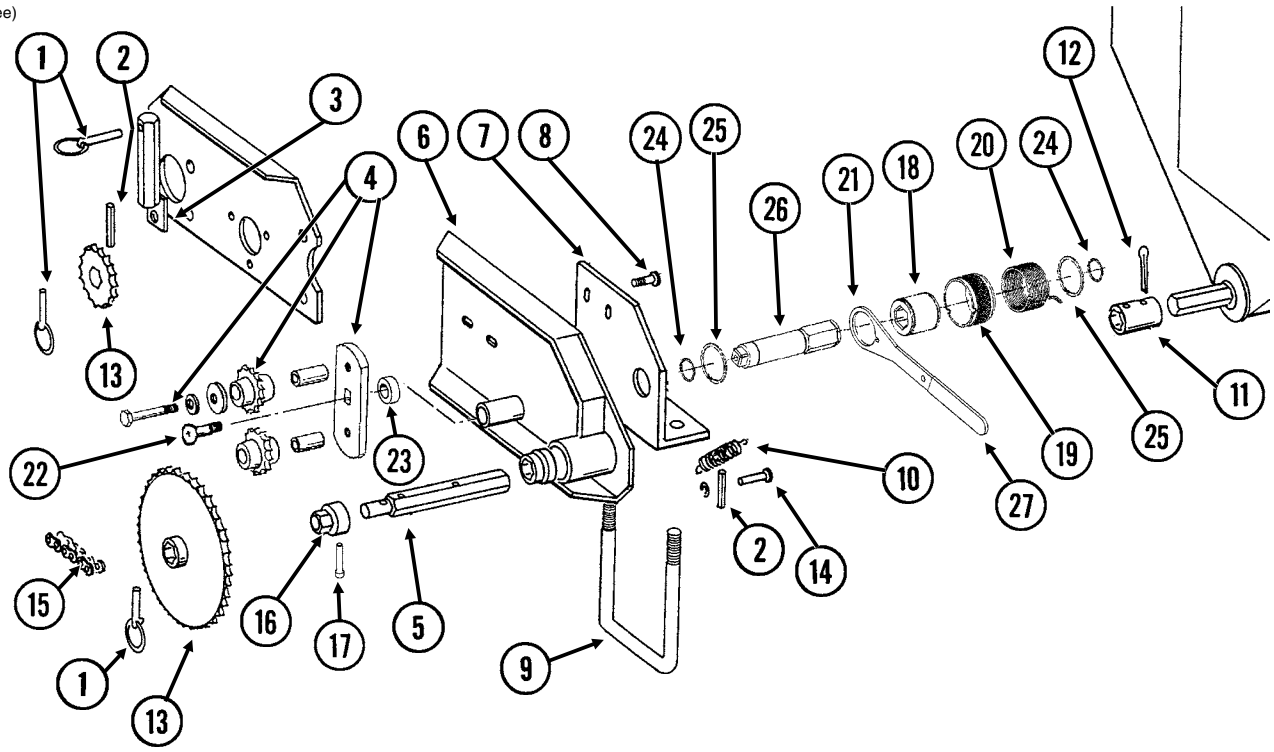
(FRTZ256)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10010	2	Hex Head Cap Screw, ⅝"-11 x 3"
2	G11391	1	Flat Washer, ⅝" SAE
3	---	-	See “Notched Single Disc Fertilizer Opener” on page P117
4	GA9472	1	Blade Mount
5	G10233	1	Machine Bushing, 1½" x 1/32", 10 Gauge
6	GA10037 GA10036	1 1	Wheel Mount, L.H. (Shown) Wheel Mount, R.H.
7	GD13309	1	Spacer
8	GD31466	1	Half Wheel, Black
9	GD11953	1	Offset Tire
10	GA6171	1	Bearing
11	GD26598	1	Half Wheel Cover, Black
12	G10961 G10620	11 11	Flanged Whiz Lock Screw, 5/16"-18 x ¾", No Serration Serrated Flange Nut, 5/16"-18
13	G10204	-	Special Machine Bushing, ⅝" x 1" O.D. (As Required)
A	GA18311	-	Gauge Wheel Complete (Items 8-12)

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(TWL60ee)

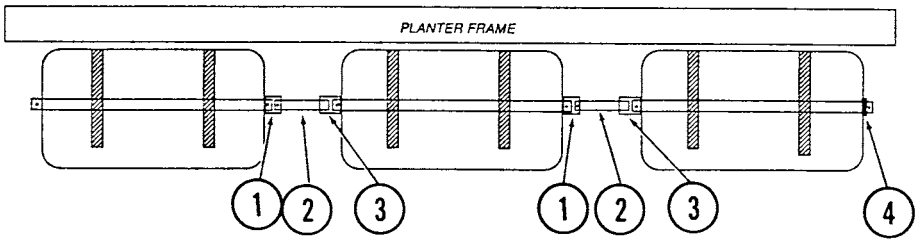


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2558	3	Lynch Pin, ¼"
2	G10602	2	Spring Pin, ¼" x 1½"
3	GA5229	1	Sprocket Storage Rod
4	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth (Included W/GA7336)
	GD1026	-	Sleeve, 1 3/16" Long (Included W/GA7336)
	G11387	-	Flat Washer, ⅜" SAE (Included W/GA7336)
	G10229	-	Lock Washer, ⅜" (Included W/GA7336)
	G10047	-	Hex Head Cap Screw, ⅜"-16 x 1¾" (Included W/GA7336)
5	GD7870	1	Shaft, 7"
6	GA6579	1	Plate W/Bearings And Grease Fitting
	GA5116	-	Bearing, ⅞" Hex Bore, Cylindrical (Included W/GA6579)
	GA5624	-	Special Bearing, ⅞" Hex Bore x 1.6" (Included W/GA6579)
	G10643	-	Grease Fitting, 45°, ¼"-28 (Included W/GA6579)
7	GD9320	1	Mount
8	G10574	2	Carriage Bolt, ½"-13 x 1¼"
	G11389	4	Flat Washer, ½" SAE
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
9	GD1134	1	U-Bolt, 7" x 5" x ⅝"-11
	G10230	2	Lock Washer, ⅝"
	G10104	2	Hex Nut, ⅝"-11
10	GD5857	1	Spring
11	GD5886	-	Coupler, 1¾"
12	G10460	-	Cotter Pin, ¼" x 2"

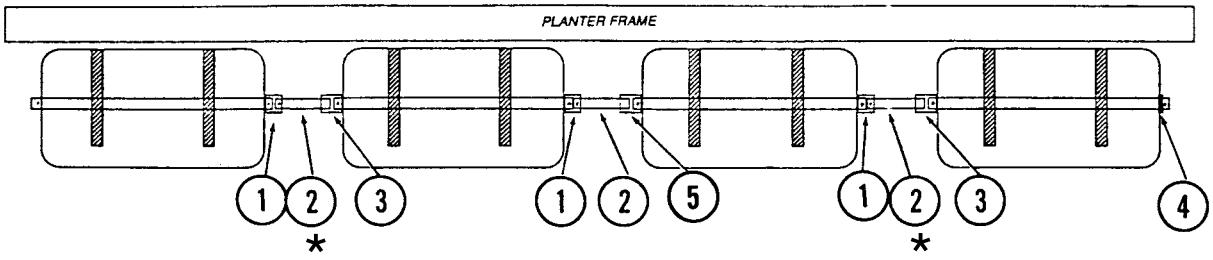
ITEM	PART NO.	QTY.	DESCRIPTION
13	GA5105	1	Sprocket, 15 Tooth
	GA5107	1	Sprocket, 19 Tooth
	GA5114	1	Sprocket, 30 Tooth
	GA5115	1	Sprocket, 33 Tooth
	GA6337	1	Sprocket, 35 Tooth
14	G10408	1	Clevis Pin, 5/16" x 3/4"
	G10409	1	Retaining Ring, 5/16"
15	G3310-155	1	Chain, No. 40, 155 Pitch Including Connector Link And Offset Link
	GR0912	-	Connector Link, No. 40
	GR0911	-	Offset Link, No. 40
16	GD7127	1	Shear Coupler
17	G10821	1	Clevis Pin, 3/16" x 2"
	G10455		Cotter Pin, 1/16" x 1/2"
18	GD14432	1	Sleeve, 1 1/4"
19	GD19343	1	Release Collar, R.H.
20	GD14413	-	Torsion Spring, L.H. (Used In R.H. Wrap Spring Wrench)
21	GD14431	1	Handle
22	G11100	1	Hex Socket Button Head Cap Screw, 1/4"-20 x 1/2", Grade 8
	G10227	1	Lock Washer, 1/4"
	G11453	1	Fender Washer, 1/4"
23	GD2734-18	1	Sleeve, 1 1/4" O.D. x 7/16" Long
24	G11075	2	External Inverted Snap Ring, 7/8"
25	G10496	2	External Inverted Snap Ring, 1 1/2"
26	GD14427	1	Tightener Shaft, 4 7/8"
27	G11078	1	Vinyl Cap
A	G1K269	-	Lock Clamp Kit (Items 2 And 3)
B	G1K378	1	Wrap Spring Wrench Replacement Kit, Gold Collar, R.H. (Items 18-27)

RH101190(PT33/PT35)

6 Row 30"



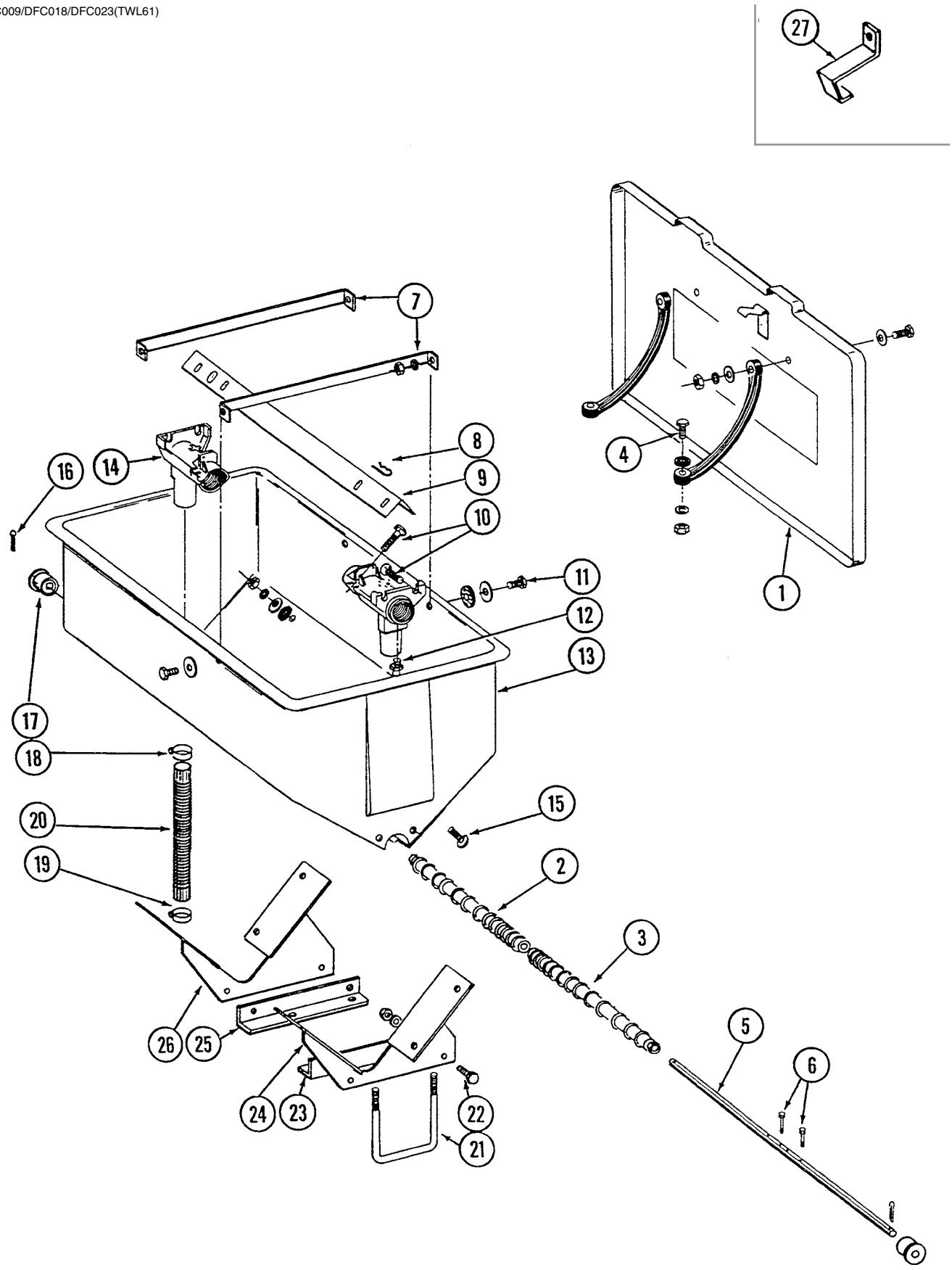
8 Row 30"



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD5886	-	Coupler, 1¾"
2	GD2548-15.5	-	Hex Shaft, ⅞" x 15½" (1 Hole)
	GD2548-11.5	2	Hex Shaft, ⅞" x 11½" (1 Hole) (8 Row 30" W/HD Single Disc Fertilizer Openers)
3	GD7867	-	Coupler, 3"
4	G10233	2	Machine Bushing, 1½" x 1/32", 10 Gauge
5	GD9378	-	Coupler, 12"

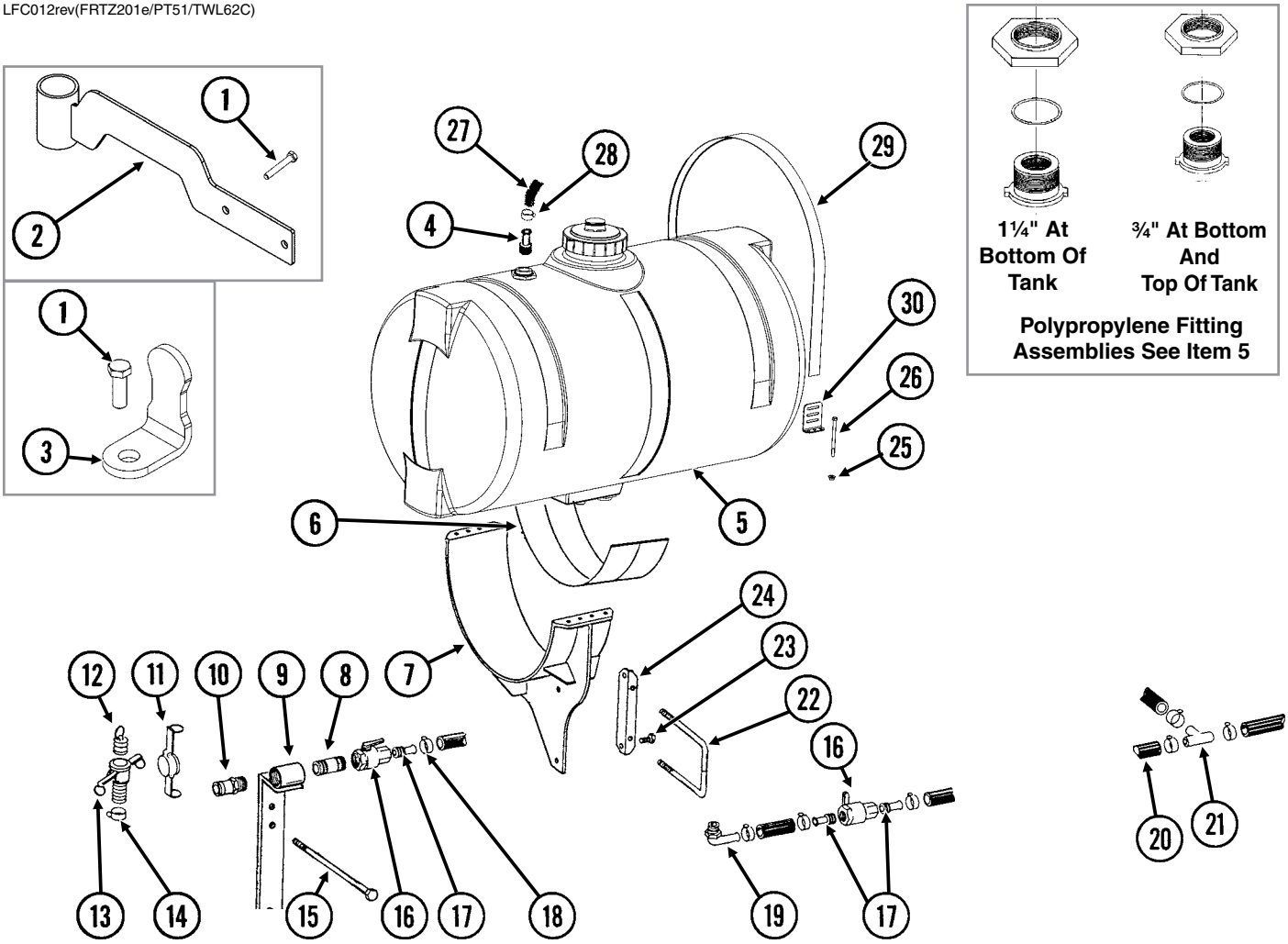
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DFC009/DFC018/DFC023(TWL61)



ITEM	PART NO.	QTY. (Per Hopper)	DESCRIPTION
1	GA0898	1	Lid W/Retainers, Clips, Rivets, Rubber Straps And Hardware
	GD1380	-	Front Clip (Included W/GA0898)
	GD2412	-	Rear Retainer (Included W/GA0898)
	G10655	-	Rivet, 3⁄16" x 13⁄32" (Included W/GA0898)
	GD1210	-	Rubber Strap (Included W/GA0898)
	G10171	-	Hex Head Cap Screw, 5⁄16"-18 x 1¼" (Included W/GA0898)
	G11386	-	Flat Washer, 5⁄16" SAE (Included W/GA0898)
	G10232	-	Lock Washer, 5⁄16" (Included W/GA0898)
	G10106	-	Hex Nut, 5⁄16"-18 (Included W/GA0898)
2	GB0198	1	Auger, R.H.
3	GB0199	1	Auger, L.H.
4	G10133	2	Hex Head Cap Screw, 5⁄16"-18 x 1½"
	G11386	2	Flat Washer, 5⁄16" SAE
	G10232	2	Lock Washer, 5⁄16"
	G10106	2	Hex Nut, 5⁄16"-18
5	GD7848	1	Shaft
6	G10587	2	Hex Head Cap Screw, ¼"-20 x 2", Stainless Steel
	G10588	2	Hex Nut, ¼"-20, Stainless Steel
7	GD1209	2	Strap
8	G10670	2	Hair Pin Clip, No. 3
9	GD1207	1	Baffle
10	G10303	8	Carriage Bolt, 5⁄16"-18 x 1"
	G11386	8	Flat Washer, 5⁄16" SAE
	G10232	8	Lock Washer, 5⁄16"
	G10106	8	Hex Nut, 5⁄16"-18
11	G10171	4	Hex Head Cap Screw, 5⁄16"-18 x 1¼"
	G10201	4	Special Washer, 3⁄8" x 1½" O.D.
	GD1213	4	Rubber Washer
	G10232	4	Lock Washer, 5⁄16"
	G10106	4	Hex Nut, 5⁄16"-18
12	G10640	2	Grease Fitting, ¼"-28
13	GD1379	1	Hopper
14	GD1200	2	Outlet Housing
15	G10303	8	Carriage Bolt, 5⁄16"-18 x 1"
	G10201	8	Special Washer, 3⁄8" x 1½" O.D.
	GD1213	8	Rubber Washer
	G10232	8	Lock Washer, 5⁄16"
	G10106	8	Hex Nut, 5⁄16"-18
16	G10460	2	Cotter Pin, ¼" x 2"
17	GB0200	2	Bearing
18	G10676	2	Hose Clamp, No. 36, Stainless Steel
19	G10672	2	Hose Clamp, No. 28
20	GD21398	2	Rubber Tube
21	GD1134	2	U-Bolt, 7" x 5" x 5⁄8"-11
	G10230	4	Lock Washer, 5⁄8"
	G10104	4	Hex Nut, 5⁄8"-11
22	G10017	2	Hex Head Cap Screw, ½"-13 x 1½"
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
23	GD9131	1	Angle, L.H.
24	GA6437	1	Mount, L.H.
25	GD9132	1	Angle, R.H.
26	GA6436	1	Mount, R.H.
27	GD8722	-	Holder, Rubber Tube (As Required)
A	GA6503	-	Hopper Sub-Assembly (Items 8,10 And 12-15)
B	GA5667	-	Hopper Hardware Box (Items 2-7, 9, 11, 16 And 17)

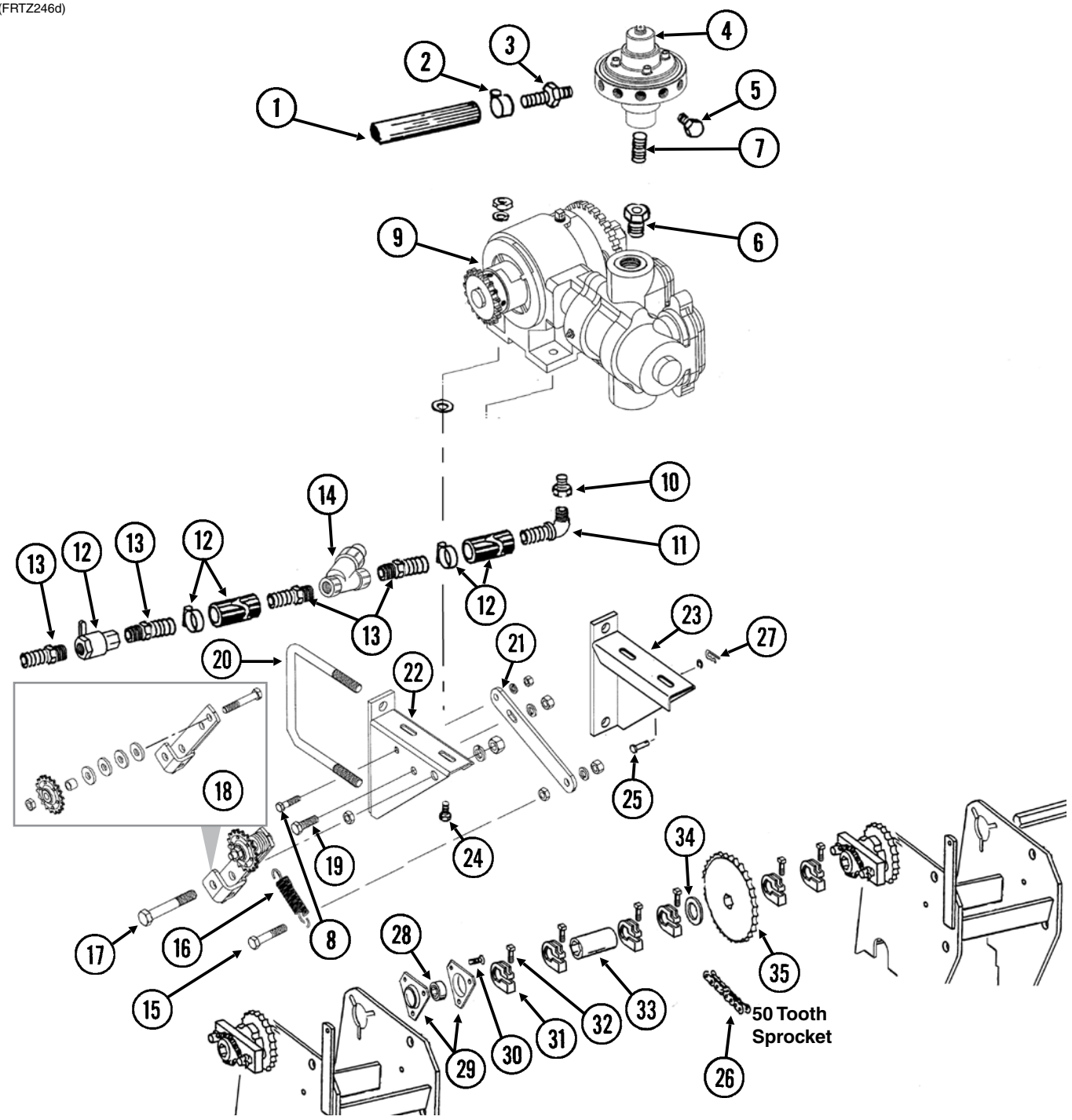
LFC012rev(FRTZ201e/PT51/TWL62C)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10004	-	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G11091	-	Serrated Flange Nut, ⅜"-16
2	GA14112	2	Hose Guide
3	GD20060	2	Hose Bracket
4	G10626	-	Adapter, 1¼" NPT To Barb
5	GA14049	2	Tank W/Sealed Lid and Fittings, 150 Gallon
	GA16428	1	Lid, 7" W/Vacuum Breaker (Included W/GA14049)
	GA16157	1	Vacuum Breaker (Included W/GA16428)
	GR1708	-	¾" Bulkhead Overflow Fitting Assembly (Overflow Fitting, Nut, Bushing, And O-Ring) (Top And Bottom Of Tank) (Included W/GA14049)
	GR0508	-	1¼" Polypropylene Fitting Assembly (Nut, Bushing, and O-Ring) (Bottom Of Tank) (Included W/GA14049)
	GR1941	1	Lid Seal (Included W/GA14049)
6	GD1862	1	Pad, 8" x 14' (For Two 30" Tanks)
7	GA7375	-	Tank Mount (2 Per Tank)
8	G10619	-	Close Nipple, 1¼" NPT
9	GA5917	1	Quick Fill Mount
10	GD1514	1	Adapter, 1¼" Male NPT To Cam Lock
11	GD1515	1	Dust Cap, 1¼" Cam Lock
12	GD1517	1	Dust Plug, 1¼" Male Cam Lock
13	GD1516	1	Adapter, 1¼" Barb To Female Cam Lock

ITEM	PART NO.	QTY.	DESCRIPTION
14	G10672	1	Hose Clamp, No. 28
15	G10829	2	Hex Head Cap Screw, ½"-13 x 6½" (Used Between Light Assembly And Quick Fill Mount)
	G11389	2	Flat Washer, ½" SAE
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
16	GA4976	-	Shutoff Valve, 1¼" NPT
	GR1015	-	Body O-Ring (Included W/GA4976)
	GR1016	-	Stem O-Ring (Included W/GA4976)
	GR1017	-	Teflon Seat (Included W/GA4976)
	GR1018	-	Ball (Included W/GA4976)
	GR1019	-	Handle (Included W/GA4976)
17	G10626	-	Adapter, 1¼" NPT To Barb
18	G10674	-	Hose Clamp, No. 24
19	G10629	2	Elbow, 90°, 1¼" NPT To Barb
20	G4200-02	1	Hose, 1¼" x 27', 6 Row 30"
	G4200-03	-	Hose, 1¼" x 32', 8 Row 30"
21	G10633	1	Tee, 1¼" Barb
22	GD1747	4	U-Bolt, 5" x 7" x ¾"-10
	G10231	8	Lock Washer, ¾"
	G10105	8	Hex Nut, ¾"-10
23	G10007	-	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	-	Lock Washer, ⅝"
	G10104	-	Hex Nut, ⅝"-11
24	GD10110	-	Mounting Angle (2 Per Tank)
25	G10901	16	Lock Nut, ⅜"-16
26	G10485	16	Hex Head Tap Bolt, ⅜"-16 x 5"
27	G4602-01	1	Black Helix Hose, 1¼" x 18'
28	G10674	4	Hose Clamp, No. 24
29	GD11124	4	Strap, 84"
30	GD11123	8	Anchor (Sub GA8114)

(FRTZ246d)

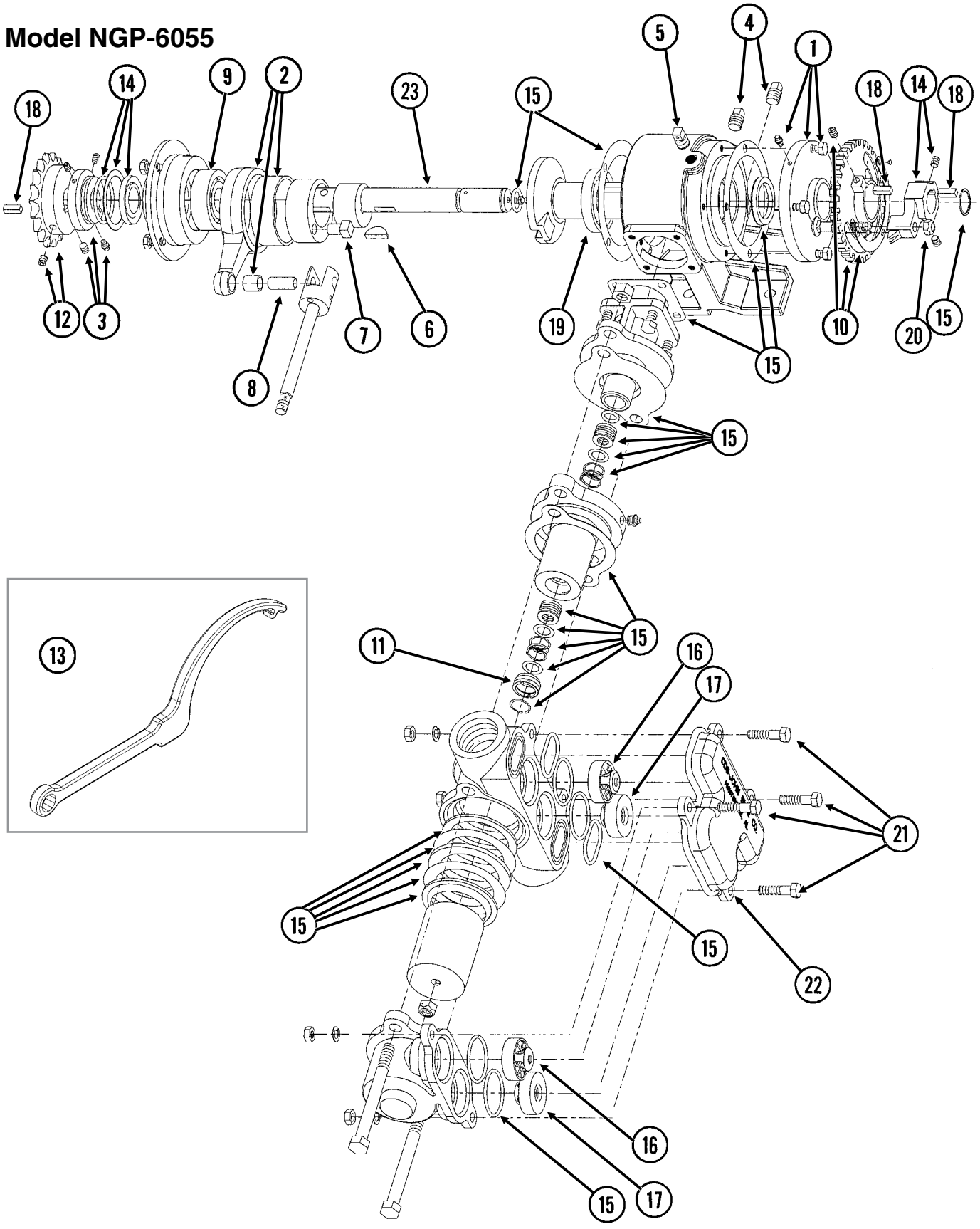


ITEM	PART NO.	QTY.	DESCRIPTION
1	G4301-02	-	Hose, ⅜" x 50', 6 Row 30"
	G4301-04	-	Hose, ⅜" x 100', 8 Row 30"
2	G10681	8	Hose Clamp, No. 6 (As Required)
3	GD11700	-	Adapter, ¼" NPT To ⅜" Barb (As Required)
4	---	-	See “Liquid Fertilizer Piston Pump Flow Divider” on page P138
5	G10292	-	Pipe Plug, ¼" NPT (As Required)
6	G11237	1	Reducing Bushing, 1½" Male NPT To ¾" Female
7	G10994	1	Close Nipple, ¾" NPT, Stainless Steel

ITEM	PART NO.	QTY.	DESCRIPTION
8	G10003	1	Hex Head Cap Screw, ⅜"-16 x 1½"
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
9	---	-	See “Liquid Fertilizer Piston Pump Uses 18 Tooth Sprocket” on page P135
10	G10615	1	Reducing Bushing, 1½" Male NPT To 1¼" Female
11	G10629	1	Elbow, 90°, 1¼" NPT To Barb
12	---	-	See “Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings” on page P131
13	G10626	4	Adapter, 1¼" NPT To Barb
14	GA3893	1	Strainer Complete
	GR0880	-	Screen, No. 40 Mesh (Included W/GA3893)
	GR0881	-	Gasket (Included W/GA3893)
	GR0882	-	Y-Body (Included W/GA3893)
	GR0883	-	End Cap (Included W/GA3893)
15	G10053	1	Hex Head Cap Screw, ½"-13 x 2½"
	G10228	1	Lock Washer, ½"
	G10501	1	Hex Jam Nut, ½"-13, Grade 2
	G10102	1	Hex Nut, ½"-13
16	GD5857	1	Spring
17	G10036	1	Hex Head Cap Screw, ⅝"-11 x 4"
	G10230	1	Lock Washer, ⅝"
	G10503	1	Hex Jam Nut, ⅝"-11, Grade 2
	G10104	1	Hex Nut, ⅝"-11
18	GA11024	1	Idler W/Sprocket And Hardware
	GA7154	1	Sprocket W/Bearing, 18 Tooth (Included W/GA11024)
	G10038	1	Hex Head Cap Screw, ½"-13 x 3" (Included W/GA11024)
	G10168	4	Machine Bushing, ½", 7 Gauge (Included W/GA11024)
	GD11158	1	Spacer, ¾" O.D. x 9⁄16" Long (Included W/GA11024)
	G10501	1	Hex Jam Nut, ½"-13, Grade 2 (Included W/GA11024)
19	G10037	1	Hex Head Cap Screw, ½"-13 x 1¼"
	G10228	1	Lock Washer, ½"
	G10102	1	Hex Nut, ½"-13
20	GD1113	2	U-Bolt, 5" x 7" x ⅝"-11
	G10230	4	Lock Washer, ⅝"
	G10104	4	Hex Nut, ⅝"-11
21	GD16157	1	Bracket
22	GA10603	1	Pump Mount, L.H.
23	GA4620	1	Pump Mount, R.H.
24	G10001	4	Hex Head Cap Screw, ⅜"-16 x 1"
	GR1122	4	Mounting Pad
	G11387	4	Flat Washer, ⅜" SAE
	G10229	4	Lock Washer, ⅜"
	G10101	4	Hex Nut, ⅜"-16
25	G10478	1	Clevis Pin, 5⁄16" x 1"
	G10409	1	Retaining Ring, 5⁄16"
26	G3310-88	1	Chain, No. 40, 88 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
27	G10670	1	Hair Pin Clip, No. 3
28	G2100-03	1	Bearing, ⅞" Hex Bore, Spherical
29	G3400-01	2	Flangette
30	G10303	3	Carriage Bolt, 5⁄16"-18 x 1"
	G10620	3	Serrated Flange Nut, 5⁄16"-18
31	GD11045	5	Lock Clamp
32	G10130	5	Square Head Machine Bolt, 5⁄16"-18 x 1¾"
	G10923	5	Flange Nut, 5⁄16"-18, No Serration
33	GD1719	1	Coupler, 4"
34	G10233	1	Machine Bushing, 1½" x 1⁄32", 10 Gauge
35	GA5194	1	Sprocket, 50 Tooth

(A12335a/GR1808)

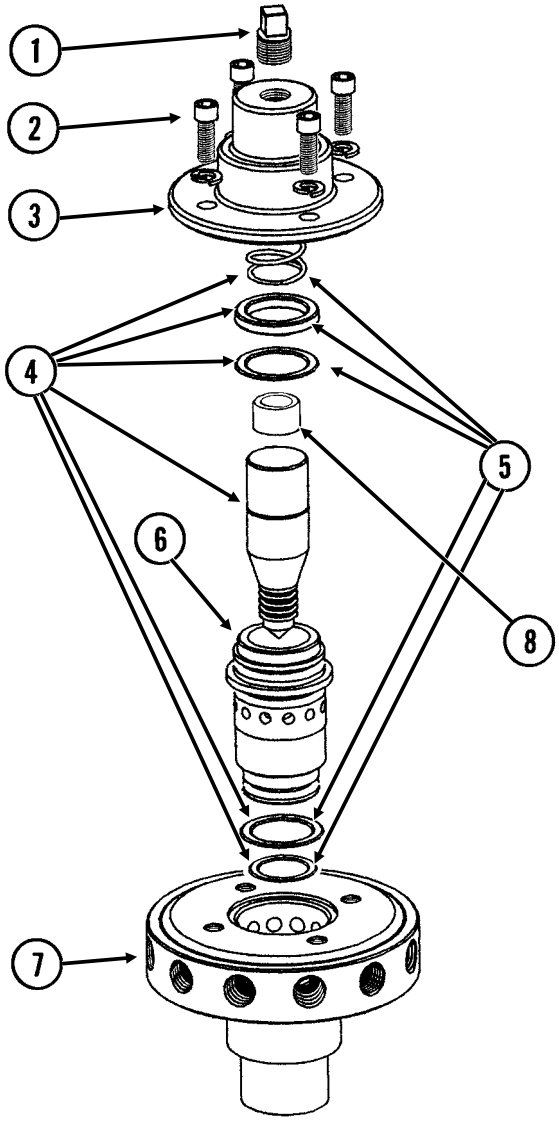
Model NGP-6055



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1804	1	Flange Cover Assembly
	G10991	4	Hex Head Cap Screw, 5/16"-18 x 7/8"
2	GR1802	1	Connecting Rod Assembly
3	GR1801	1	Spacer Assembly
	G10693	3	Hex Socket Head Set Screw, 5/16"-18 x 3/8"
4	GR1123	2	Plug
5	GR1543	1	Vent Plug
6	GR1112	1	Woodruff Key
7	GR1120	1	Eccentric Pin
8	GR1124	1	Pin
9	GR1104	1	Bearing
10	GR1805	1	Setting Hub Assembly
11	GR1134	1	Stuffing Box Insert
12	GR1389	1	Sprocket, 18 Tooth
13	GR1808	1	Adjustment Wrench
14	GR1806	1	Setting Pointer Assembly
15	GR1795	1	Repair Kit, Includes: (6) Gaskets, (9) O-Rings, (4) Washers, (1) Retaining Ring, (2) Oil Seals, (1) Snap Ring, (1) Thrust Washer, (1) Rod Bushing, (2) Flange Plunger Packings, (2) Packing Springs, (2) Rod Vee Packing Sets
16	GR1799	2	Discharge Valve Assembly
17	GR1797	2	Suction Valve Assembly
18	GR1118	3	Setting Arm Key
19	GR1116	1	Bearing
20	G10306	1	Carriage Bolt, 3/8"-16 x 2"
	G10108	1	Lock Nut, 3/8"-16
21	G10003	4	Hex Head Cap Screw, 3/8"-16 x 1½"
	G11387	4	Flat Washer, 3/8" SAE
	G10229	4	Lock Washer, 3/8"
	G10101	4	Hex Nut, 3/8"-16
22	GR2003	1	Valve Cover
23	GR2185	1	Crankshaft
A	GA12330	-	Piston Pump Complete W/18 Tooth Sprocket (Model NGP-6055)

(FRTZ159/PT40a/FRTZ202c)

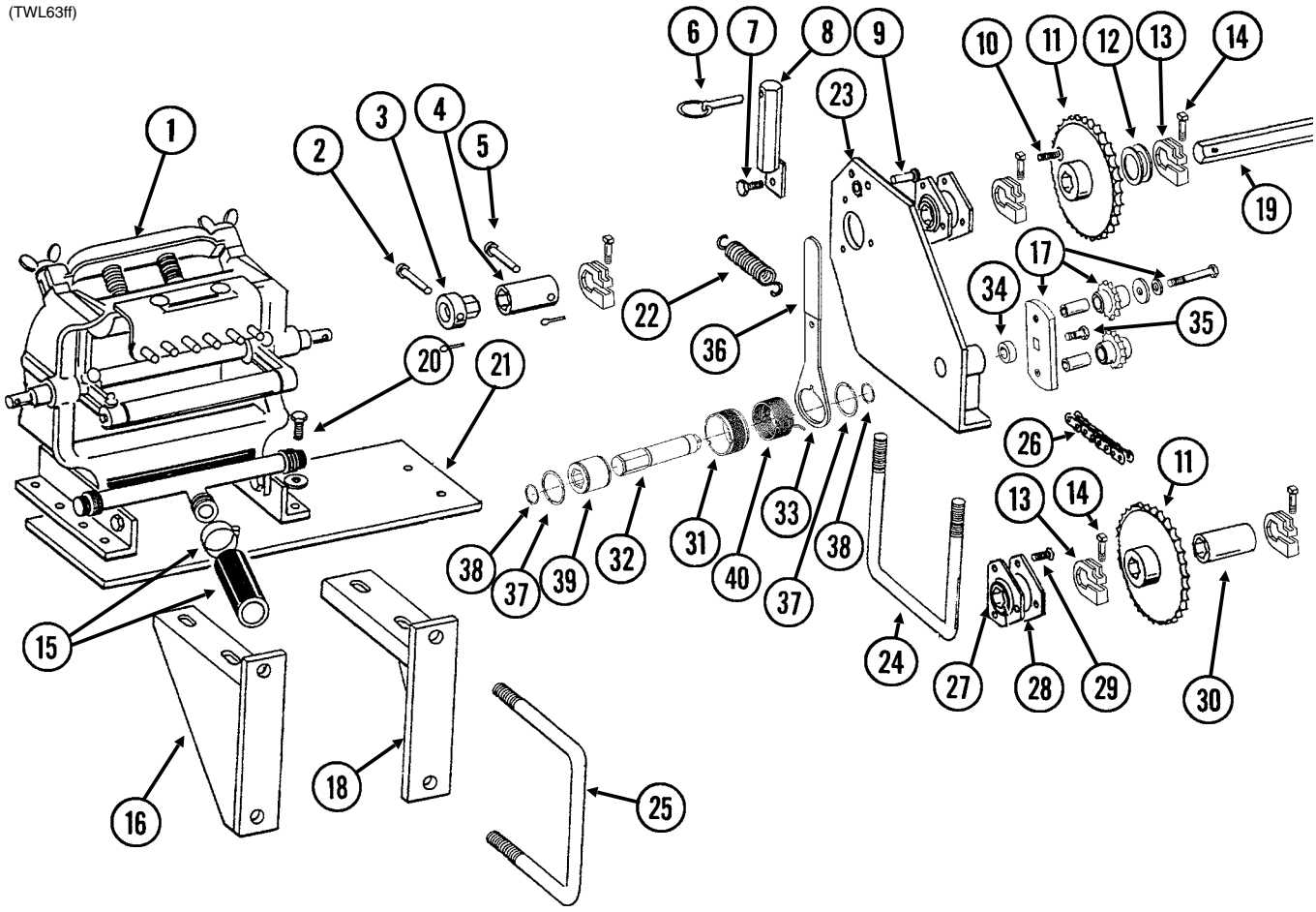
Model FD-1200 Flow Divider, 12 Outlet



¾" NPT

ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1543	1	Vent Plug
2	GR1542	4	Hex Socket Head Screw, ¼"-20 x ¾"
	GR1541	4	Lock Washer, ¼", Stainless Steel
3	GR1540	1	Cap
4	GR1544	1	Needle Assembly W/Seal Kit (Item 22)
5	GR1545	1	Seal Kit, Includes: (3) O-Rings, (1) Seal, (1) Spring
6	GR1535	1	Sleeve
7	GR1533	1	Body (12 Outlets)
8	GR1574	-	Sleeve, 1" O.D. x ½" Long, Stainless Steel
A	GA8931	1	Liquid Fertilizer Piston Pump Flow Divider Complete, 12 Outlet (Model FD-1200)

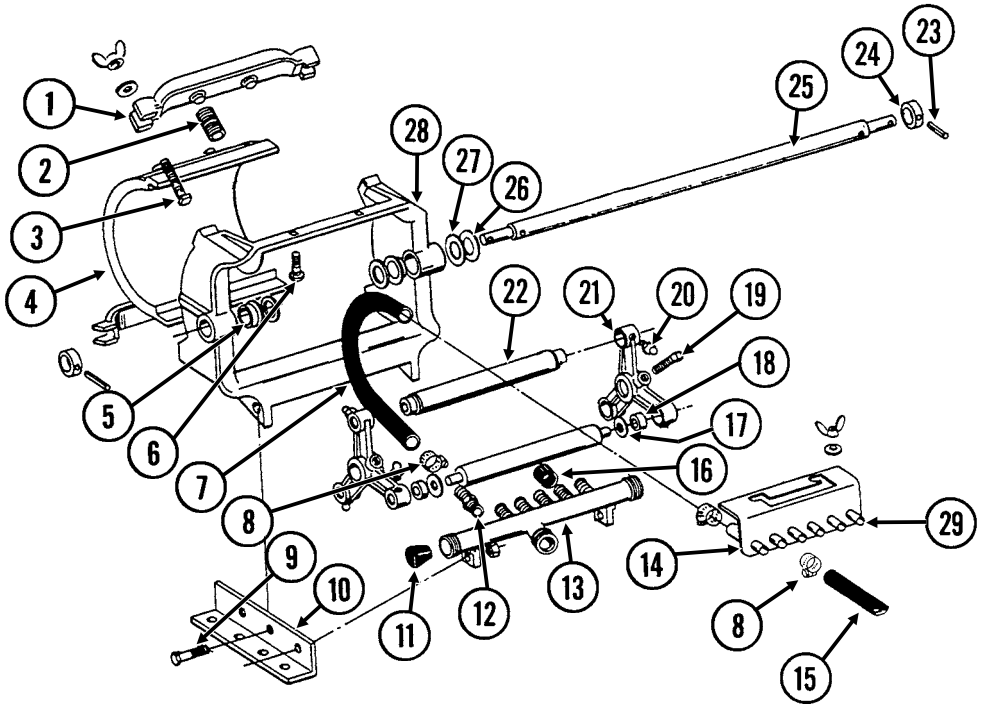
(TWL63ff)



ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See “Liquid Fertilizer Piston Squeeze Pump, 6 Row” on page P141 or See “Liquid Fertilizer Piston Squeeze Pump, 8 Row” on page P143
2	G10821 G10455	1	Clevis Pin, 3⁄16" x 2" Cotter Pin, 1⁄16" x 1⁄2"
3	GD7127	1	Shear Coupler
4	GD9048	1	Coupler, 2 1⁄2"
5	G10558 G10456	1 1	Clevis Pin, 5⁄16" x 1 3⁄4" Cotter Pin, 1⁄8" x 3⁄4"
6	GD2558	1	Lynch Pin, 1⁄4"
7	G10037 G10228 G10102	1 1 1	Hex Head Cap Screw, 1⁄2"-13 x 1 1⁄4" Lock Washer, 1⁄2" Hex Nut, 1⁄2"-13
8	GA5229	1	Sprocket Storage Rod
9	G10478	1	Clevis Pin, 5⁄16" x 1"
10	G10312 G10232 G10106	3 3 3	Carriage Bolt, 5⁄16"-18 x 3⁄4" Lock Washer, 5⁄16" Hex Nut, 5⁄16"-18
11	GA5105 GA5107 GA6513 GA5202 GA6514 GA6515	1 1 1 1 1 -	Sprocket, 15 Tooth Sprocket, 19 Tooth Sprocket, 32 Tooth Sprocket, 34 Tooth Sprocket, 46 Tooth Sprocket, 62 Tooth (Optional)
12	G10233	2	Machine Bushing, 1 1⁄2" x 1⁄32", 10 Gauge

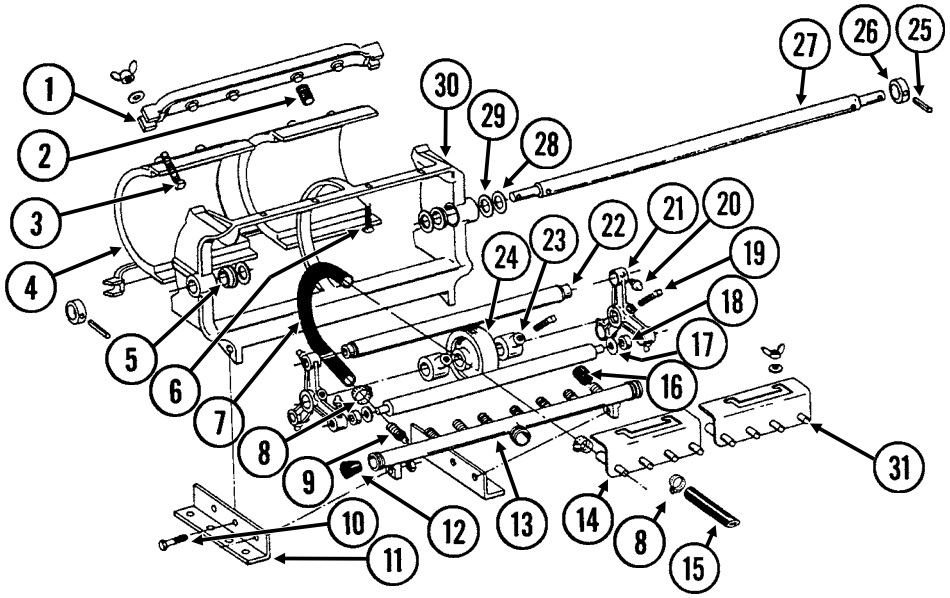
ITEM	PART NO.	QTY.	DESCRIPTION
13	GD11045	5	Lock Clamp
14	G10130	5	Square Head Machine Bolt, 5/16"-18 x 1¾"
	G10923	5	Flange Nut, 5/16"-18, No Serration
15	---	-	See “Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings” on page P131
16	GA4619	1	Pump Mount, L.H.
17	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth (Included W/GA7336)
	GD1026	-	Sleeve, 1 3/16" Long (Included W/GA7336)
	G11387	-	Flat Washer, 3/8" SAE (Included W/GA7336)
	G10229	-	Lock Washer, 3/8" (Included W/GA7336)
	G10047	-	Hex Head Cap Screw, 3/8"-16 x 1¾" (Included W/GA7336)
18	GA4620	1	Pump Mount, R.H.
19	GD2548-30	1	Hex Shaft, 7/8" x 30" (1 Hole)
20	G10004	4	Hex Head Cap Screw, 3/8"-16 x 1¼"
	G11387	4	Flat Washer, 3/8" SAE
	G10229	4	Lock Washer, 3/8"
	G10101	4	Hex Nut, 3/8"-16
21	GD6165	-	Plate (8 Row 30" Only)
22	GD5857	1	Spring
23	GA6403	1	Drive Plate W/Grease Fitting
	G10641	-	Grease Fitting, 1/8" NPT
	G10640	-	Grease Fitting, ¼"-28 (Included W/GA6403)
24	GD1134	1	U-Bolt, 7" x 5" x 5/8"-11
	G10230	2	Lock Washer, 5/8"
	G10104	2	Hex Nut, 5/8"-11
25	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
26	G3310-154	1	Chain, No. 40, 154 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
27	G2100-03	2	Bearing, 7/8" Hex Bore, Spherical
28	G3400-01	4	Flangette
29	G10303	6	Carriage Bolt, 5/16"-18 x 1"
	G10232	6	Lock Washer, 5/16"
	G10106	6	Hex Nut, 5/16"-18
30	GD1719	1	Coupler, 4"
	G10409	1	Retaining Ring, 5/16"
31	GD19343	1	Release Collar, R.H. (Shown)
	GD19344	-	Release Collar, L.H.
32	GD14427	1	Tightener Shaft, 47/8"
33	GD14431	1	Handle
34	GD2734-08	1	Sleeve, 1¼" O.D. x 5/8" Long
35	G11100	1	Hex Socket Button Head Cap Screw, ¼"-20 x ½", Grade 8
	G10227	1	Lock Washer, ¼"
	G11453	1	Fender Washer, ¼"
36	G11078	1	Vinyl Cap
37	G10496	2	External Inverted Snap Ring, 1½"
38	G11075	2	External Inverted Snap Ring, 7/8"
39	GD14432	1	Sleeve, 1 ¼"
40	GD14413	-	Torsion Spring, L.H. (Used In R.H. Wrap Spring Wrench)(Shown)
	GD14414	1	Torsion Spring, R.H. (Used In L.H. Wrap Spring Wrench)
A	G1K269	-	Lock Clamp Kit (Items 13 And 14)
B	G1K379	-	Wrap Spring Wrench Replacement Kit, Silver Collar, L.H. (Items 31-40)

LFC011/LFC011(PT47a)



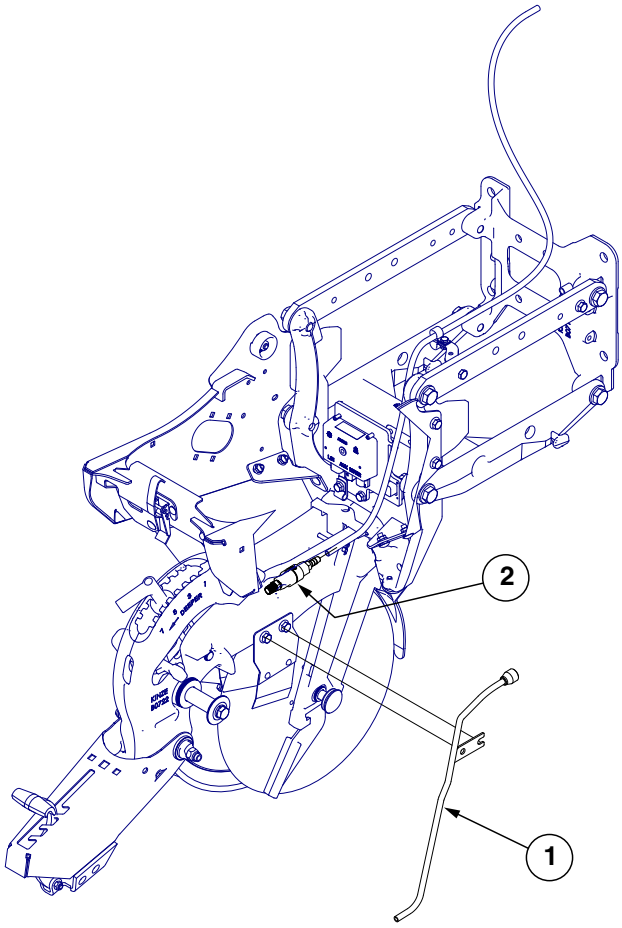
ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0216	2	Spring Anchor Bar
2	GR0214	4	Spring
3	G10130 G11386 G10144	4 4 4	Square Head Machine Bolt, 5/16"-18 x 1¾" Flat Washer, 5/16" SAE Wing Nut, 5/16"-18
4	GR0212	1	Plate
5	GR0207	2	Nylon Bushing
6	G10303 G11386 G10144	2 2 2	Carriage Bolt, 5/16"-18 x 1" Flat Washer, 5/16" SAE Wing Nut, 5/16"-18
7	GR0215	6	Metering Hose, ½" x 13"
8	G10681	-	Hose Clamp, No. 6
9	G10004 G10101	4 4	Hex Head Cap Screw, 3/8"-16 x 1¼" Hex Nut, 3/8"-16
10	GR0213	2	Angle
11	GR0217	2	Manifold Plug
12	GR0232	6	Adapter
13	GR0228	1	Intake Manifold
14	GR1484	1	Discharge Manifold Less Hose Barbs
15	G4301-02	1	Hose, 3/8" x 50'
16	GR0211	-	Rubber Cap
17	GR0229	6	Nylon Washer
18	GR1626	6	Bushing
19	G10131	2	Square Head Set Screw, 5/16"-18 x ¾"
20	G10640	8	Grease Fitting, ¼"-28
21	GR0231	2	Roller Arm
22	GR0233	3	Roller
23	G10718	2	Spring Pin, 5/16" x 1⅛"
24	GD9109	2	Sleeve
25	GD9107	1	Shaft
26	GR0226	2	Shim, 3/64"
27	GR0225	2	Shim, 1/32"
28	GR0208	1	Frame
29	GR1577	6	Nylon Hose Barb, ½" x 3/8" (If Applicable)
A	GA8691	-	Squeeze Pump Complete, 6 Rows (Items 1-13, 15-22 And 25-29)

LFC010(PT48a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0221	2	Spring Anchor Bar
2	GR0214	8	Spring
3	G10130	4	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G11386	4	Flat Washer, 5/16" SAE
	G10144	4	Wing Nut, 5/16"-18
4	GR0212	2	Plate
5	GR0207	2	Nylon Bushing
6	G10303	4	Carriage Bolt, 5/16"-18 x 1"
	G11386	4	Flat Washer, 5/16" SAE
	G10144	4	Wing Nut, 5/16"-18
7	GR0215	8	Metering Hose, 1/2" x 13"
8	G10681	-	Hose Clamp, No. 6
9	GR0232	8	Adapter
10	G10004	4	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10101	4	Hex Nut, 3/8"-16
11	GR0279	1	Angle, L.H.
	GR0280	1	Angle, R.H.
12	GR0217	2	Manifold Plug
13	GR0284	1	Intake Manifold
14	GR1485	2	Discharge Manifold Less Hose Barbs
15	G4301-04	1	Hose, 3/8" x 100'
16	GR0211	-	Rubber Cap
17	GR0229	6	Nylon Washer
18	GR1626	6	Bushing
19	G10131	2	Square Head Set Screw, 5/16"-18 x 3/4"
20	G10640	8	Grease Fitting, 1/4"-28
21	GR0231	2	Roller Arm
22	GR0283	3	Roller
23	GR0282	2	Set Collar
24	GR0281	1	Back Up Roller
25	G10718	2	Spring Pin, 5/16" x 1 1/8"
26	GD9109	2	Sleeve
27	GD9108	1	Shaft
28	GR0226	4	Shim, 3/64"
29	GR0225	4	Shim, 1/32"
30	GR0222	1	Frame
31	GR1577	8	Nylon Hose Barb, 1/2" x 3/8" (If Applicable)
A	GA8692	-	Squeeze Pump Complete, 8 Rows (Items 1-14, 16-24 And 27-31)

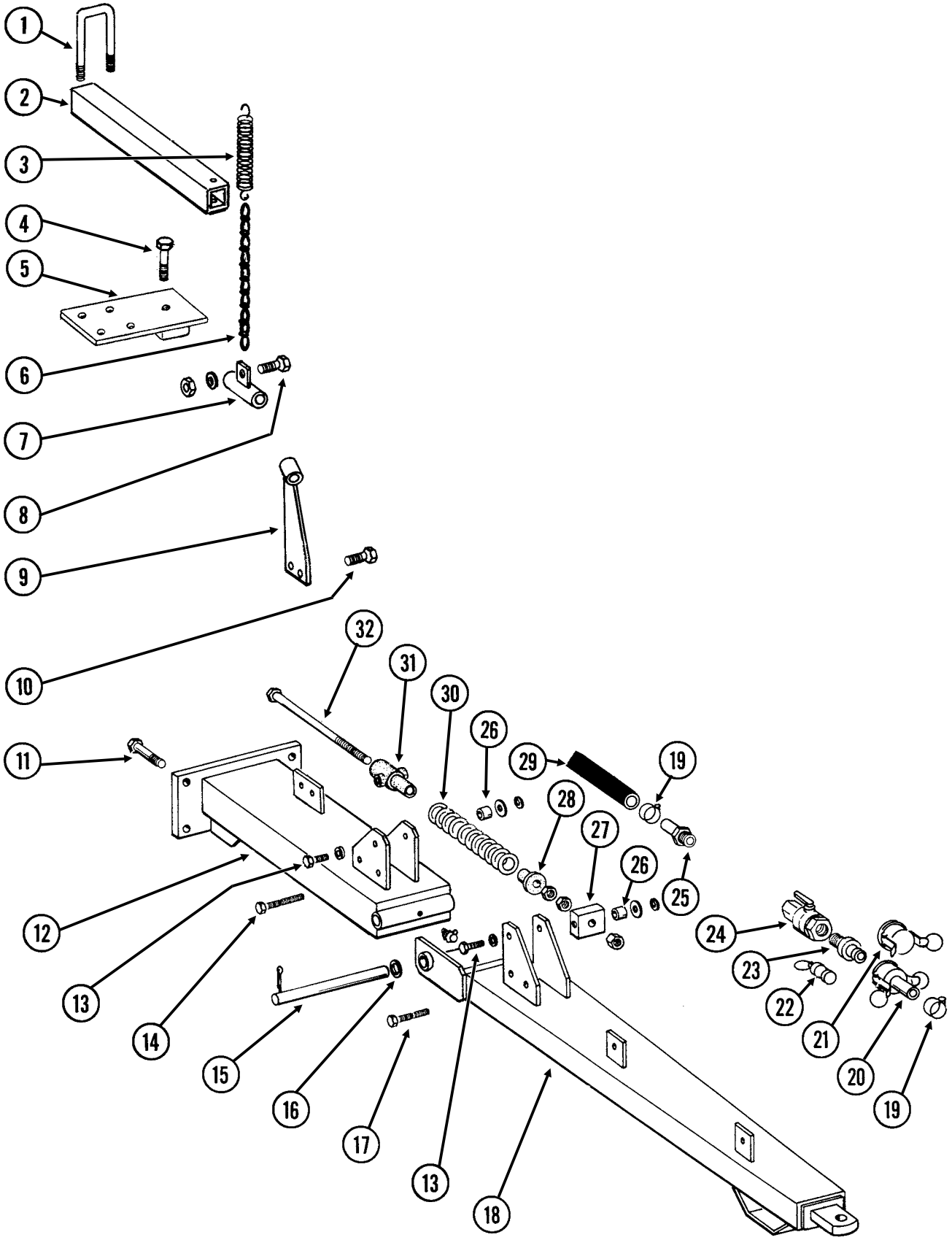
(A18821a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA18822	-	Liquid Fertilizer Tube
2	GA20583	-	Check Valve Assembly

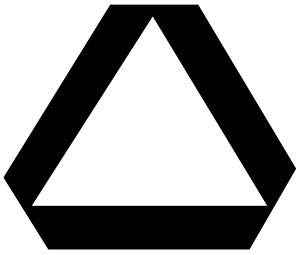
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PHA032/LFC003(TWL47b)

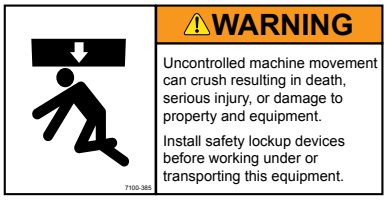


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2721	2	U-Bolt, 2" x 2" x ½"-13
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
2	GD10196	-	Hanger Tube
3	GD0829	-	Spring
4	G10013	1	Hex Head Cap Screw, ⅝"-11 x 3½" (As Required)
	G11391	1	Flat Washer, ⅝" SAE (As Required)
	G10230	1	Lock Washer, ⅝" (As Required)
	G10056	-	Hex Head Cap Screw, ¾"-10 x 3½" (As Required)
	G11392	-	Flat Washer, ¾" SAE (As Required)
	G10231	-	Lock Washer, ¾" (As Required)
5	GA7211	1	Mount
6	G3305-03	-	Twin Loop Chain, 15 Links
7	GA7209	-	Hose Support
8	G10064	1	Hex Head Cap Screw, ¼"-20 x 1"
	G11385	2	Flat Washer, ¼" SAE
	G10110	1	Lock Nut, ¼"-20, Grade B
9	GA7208	-	Hose Support
10	G10004	2	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G10108	2	Lock Nut, ⅜"-16
11	G10826	5	Hex Head Cap Screw, 1"-8 x 2½"
	G10396	5	Lock Nut, 1"-8
12	GA6960	1	Hitch
13	G10007	4	Hex Head Cap Screw, ⅝"-11 x 1½"
	G11391	4	Flat Washer, ⅝" SAE
	G10230	4	Lock Washer, ⅝"
14	G10756	1	Hex Head Cap Screw, ⅜"-16 x 6"
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
15	GD3547	1	Pin, 1¼" x 12 ¾"
16	G11396	2	Flat Washer, 1¼" SAE
	G10460	2	Cotter Pin, ¼" x 2"
17	G10172	1	Hex Head Cap Screw, ⅜"-16 x 5"
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
18	GA6961	1	Hitch
19	G10672	6	Hose Clamp, No. 28
20	GD1516	1	Adapter, 1¼" Barb To Female Cam Lock
21	GD1515	1	Dust Cap, 1¼" Cam Lock
22	GD1517	1	Dust Plug, 1¼" Male Cam Lock
23	GD1514	1	Adapter, 1¼" Male NPT To Cam Lock
24	GA4976	1	Shutoff Valve, 1¼" NPT
	GR1015	-	Body O-Ring (Included W/GA4976)
	GR1016	-	Stem O-Ring (Included W/GA4976)
	GR1017	-	Teflon Seat (Included W/GA4976)
	GR1018	-	Ball (Included W/GA4976)
	GR1019	-	Handle (Included W/GA4976)
25	G10626	1	Adapter, 1¼" NPT To Barb
26	GB0218	4	Bushing, ²¹⁄₃₂" I.D. x ⅞" O.D. x ¹⁹⁄₃₂" Long
27	GD7908	1	Tap Block
28	GB0213	1	Spring Seat
29	G4200-01	1	Hose, 1¼" x 22'
30	GD2115	1	Spring
31	GB0206	1	Rod Guide
32	GD7907	1	Special Bolt
	G10105	3	Hex Nut, ¾"-10



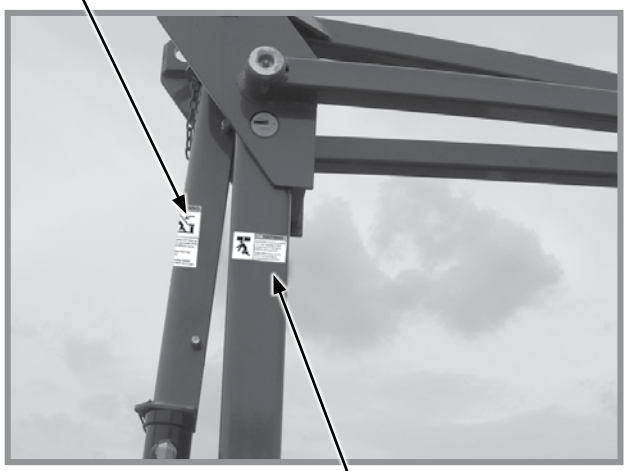


Part No.: GD2199
Description: SMV Sign
Quantity: 1



Part No.: G7100-385
Description: Decal, Warning
Quantity: 2 (1 On Each End of Planter Frame)

G7100-397



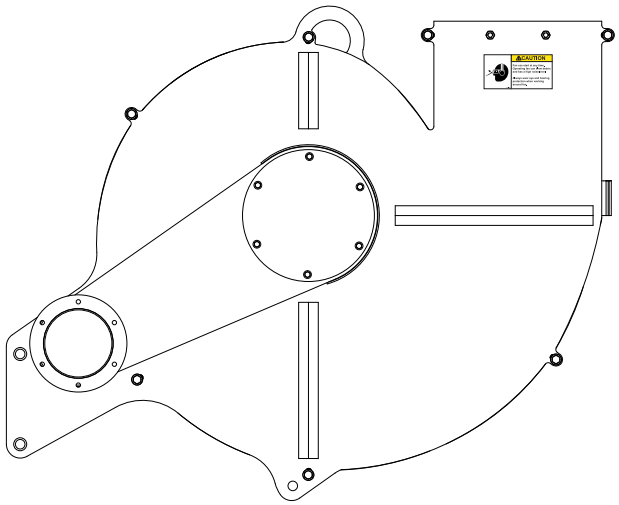
G7100-385



Part No.: G7100-397
Description: Decal, Warning
Quantity: 1 (Per Row Marker Cylinder - Conventional)
4 (2 Per Row Marker)

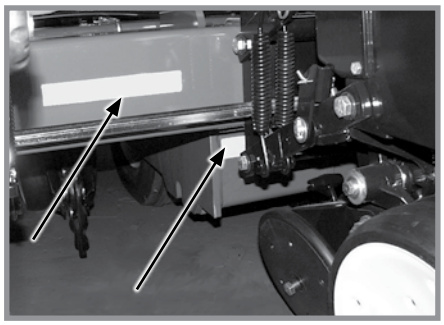


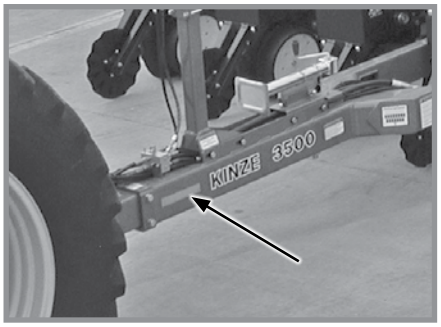
Part No.: G7100-385
Description: Decal, Warning (2012 Production and On)
Quantity: 1 (Located On Interplant Lift Cylinder Lockup)





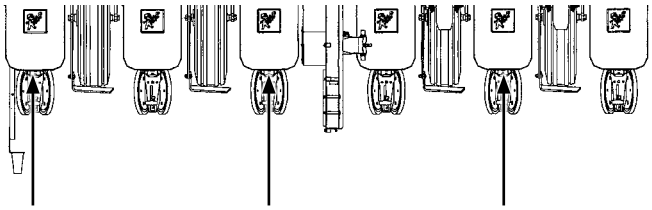
Part No.: G7100-392
Description: Decal, Caution
Quantity: 2 (Located On Each Side Of Fan)



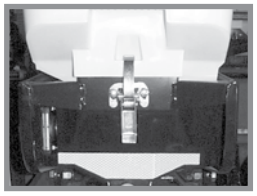




Part No.: G7100-558
Description: Reflective Decal, Amber, 2" x 9", Rectangular
Quantity: 7 On 6 Row/Qty. 8 On 8 Row (Located on the front planter toolbar in front of every other row unit beginning on the L.H. side of the planter and forward-facing on the outer ends of The transport axle. One located on each side of hitch.)





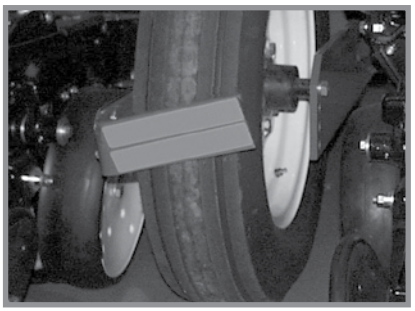






Part No.: G7100-558
Description: Reflective Decal, Amber, 2" x 9", Rectangular
Quantity: 2 (Per Row Unit - Located On The Granular Chemical Hopper Panel Extension Of Every Other Row Unit Beginning On The L.H. Side Of The Planter - Side-Facing In Transport Position)

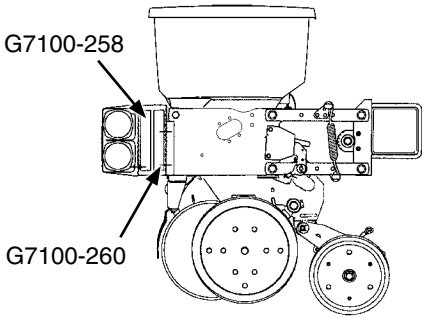
Part No.: G7100-262
Description: Reflective Decal, Amber, 1¾" x 9", Die-Cut
Quantity: 1 (Qty. 1 Per Row Unit - Located On The Hopper Support Of Every Other Row Unit Beginning On The L.H. Side Of The Planter - Side-Facing In Transport Position)

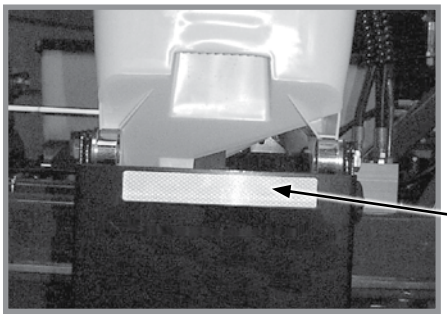


Part No.: G7100-557
Description: Reflective Decal, Red, 2" x 9" Rectangular
Quantity: 1 (Per Scraper - Located On Top)

Part No.: G7100-559
Description: Reflective Decal, Orange, 2" x 9" Rectangular
Quantity: 1 (Per Scraper - Located On Bottom)

With Even-Row Push Row Unit Option

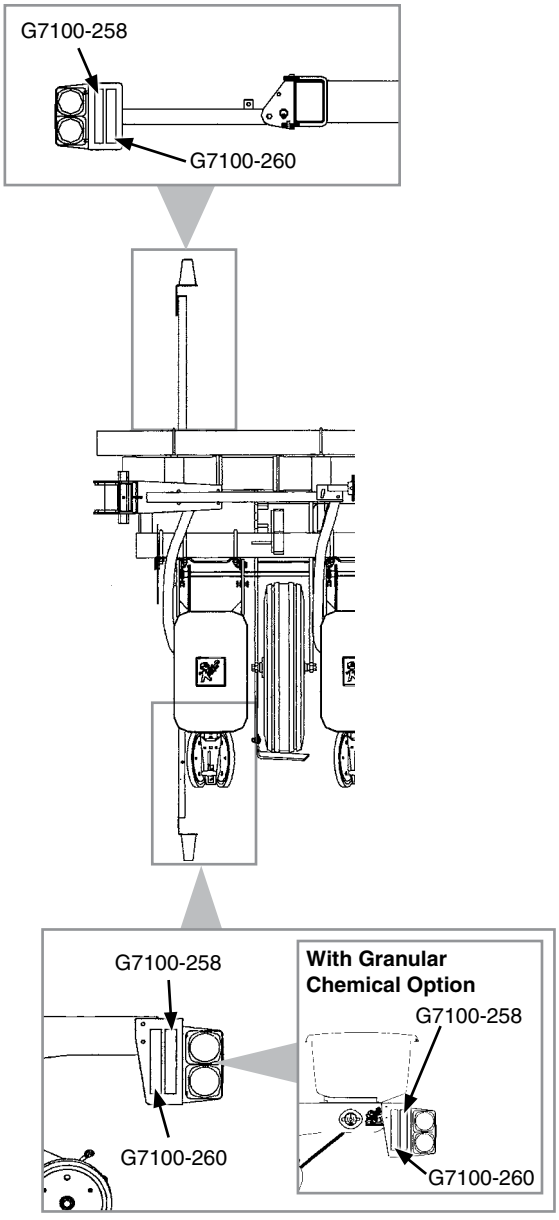




Part No.: G7100-557
Description: Reflective Decal, Red, 2" x 9" Rectangular
Quantity: 1 (Located On The Light Bracket On The L.H. Side Of The Planter - Rear-Facing In Transport Position)

Part No.: G7100-559
Description: Reflective Decal, Orange, 2" x 9" Rectangular
Quantity: 1 (Located On The Light Bracket On The L.H. Side Of The Planter - Rear-Facing In Transport Position)

Part No.: G7100-558
Description: Reflective Decal, Amber, 2" x 9", Rectangular
Quantity: 2 On 6 Row And 3 On 8 Row (Located On The Front Of Every Other Push Row Unit Beginning On The Second Row In - Side-Facing In Transport Position)



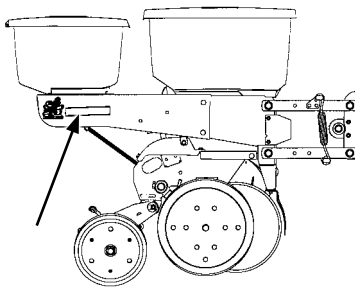
Part No.: G7100-557
Description: Reflective Decal, Red, 2" x 9" Rectangular
Quantity: 1 (Located On The Light Bracket On the L.H. Side Of The Planter - Rear-Facing In Transport Position)

1 (Located On The Outer Row Unit On the L.H. Side Of The Planter - Rear-Facing In Transport Position)

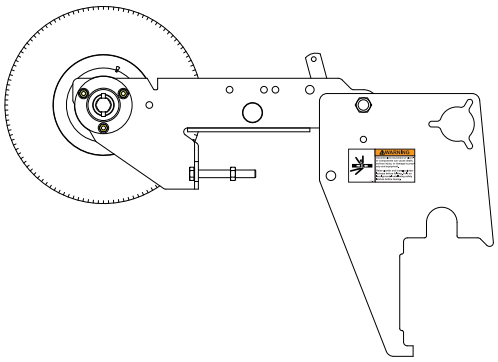
Part No.: G7100-559
Description: Reflective Decal, Orange, 2" x 9" Rectangular
Quantity: 1 (Located On The Light Bracket On the L.H. Side Of The Planter - Rear-Facing In Transport Position)

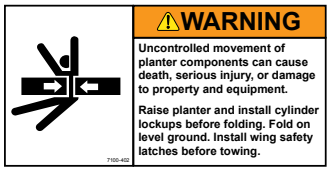
1 (Located On The Outer Row Unit On the L.H. Side Of The Planter - Rear-Facing In Transport Position)

With Granular Chemical Option

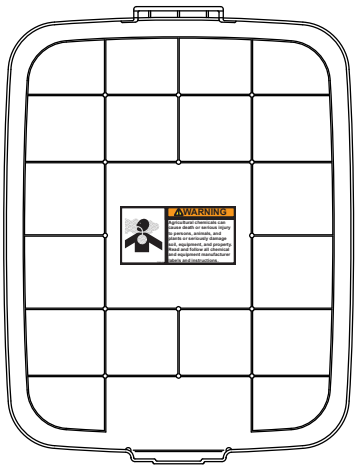


Part No.: G7100-558
Description: Reflective Decal, Amber, 2" x 9", Rectangular
Quantity: 1 (Located On The Outer Row Unit On The R.H. Side Of The Planter - Forward- Facing In Transport Position)





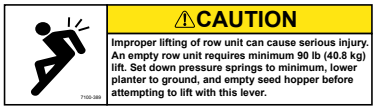
Part No.: G7100-402
Description: Decal, Warning
Quantity: 1 (Located on Wheel Modules On Both Ends Of Planter)



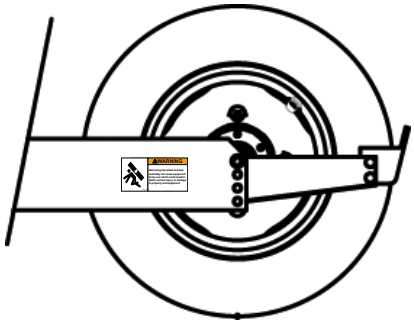


Part No.: G7100-381
Description: Decal, Warning
Quantity: 1 (1 Per Row Unit - Located On Underside Of Granular Chemical Hopper Lid)



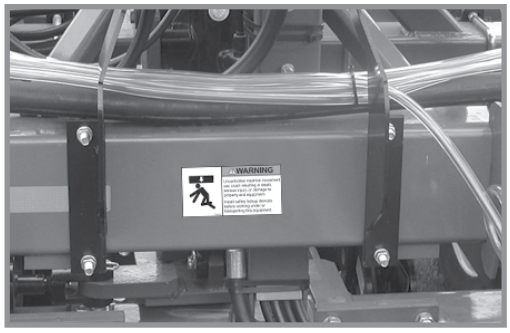


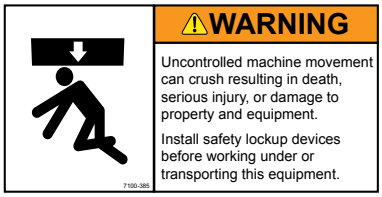
Part No.: G7100-389
Description: Decal, Caution
Quantity: 1 (Located On Interplant Push Row Unit Lift Lever)



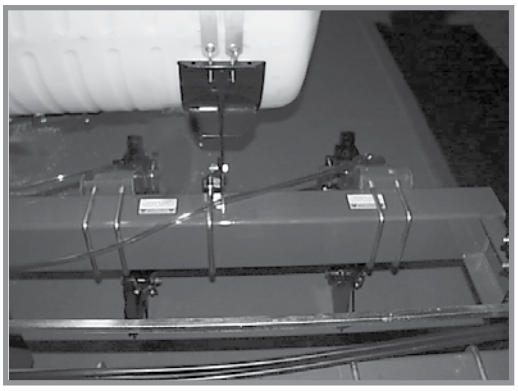


Part No.: G7100-386
Description: Decal, Warning
Quantity: 1





Part No.: G7100-385
Description: Decal, Warning
Quantity: 1

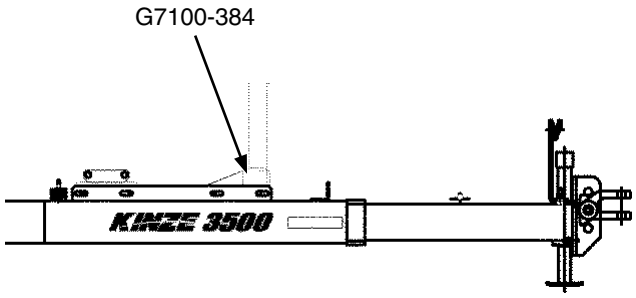




Part No.: G7100-400
Description: Decal, Warning (2012 Production and On)
Quantity: 2 (Located On Top Of Toolbar 36" From L.H. End of Toolbar And 28" From R.H. End of Toolbar)

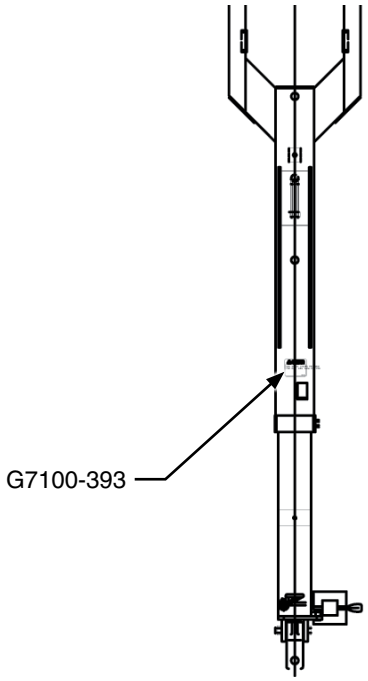


Part No.: G7100-385
Description: Decal, Warning (2012 Production and On)
Quantity: 2 (Located On Top Of Toolbar 51" From L.H. End of Toolbar And 43" From R.H. End of Toolbar)



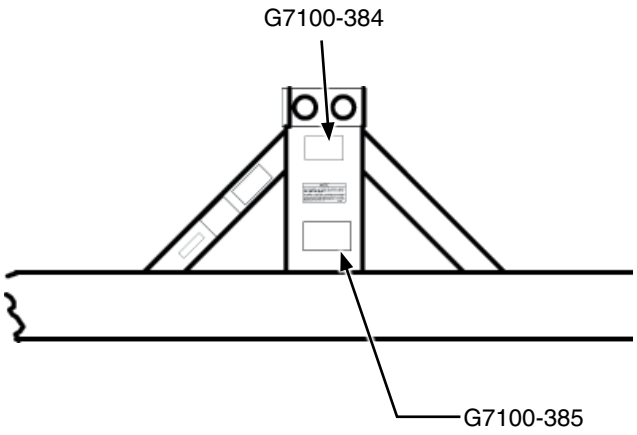


Part No.: G7100-384 (2013 production and on) (replaces G7100-02)
Description: Decal, Warning
Quantity: 2





Part No.: G7100-393
Description: Decal, Warning
Quantity: 1

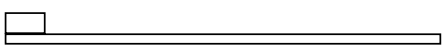




Part No.: G7100-384
Description: Decal, Warning
Quantity: 2 (Front and Rear)



Part No.: G7100-385
Description: Decal, Warning
Quantity: 1

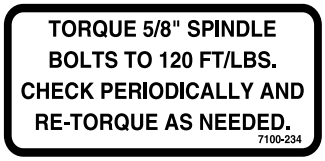
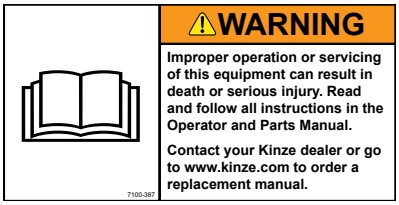
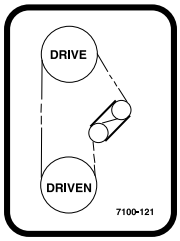
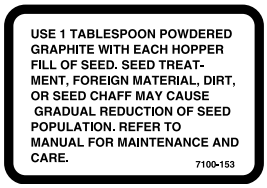


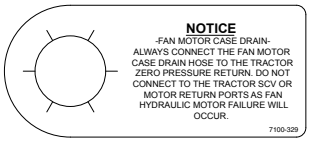
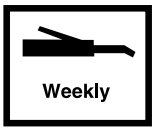
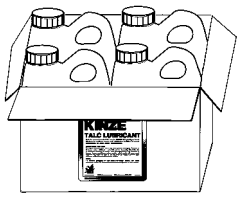
Part No.: GD1162
Description: Tie Strap, 28"

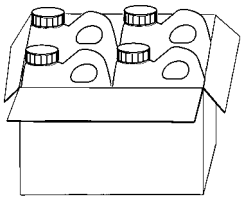
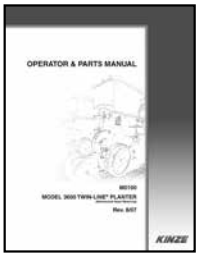
Part No.: GD1512
Description: Tie Strap, 7½"

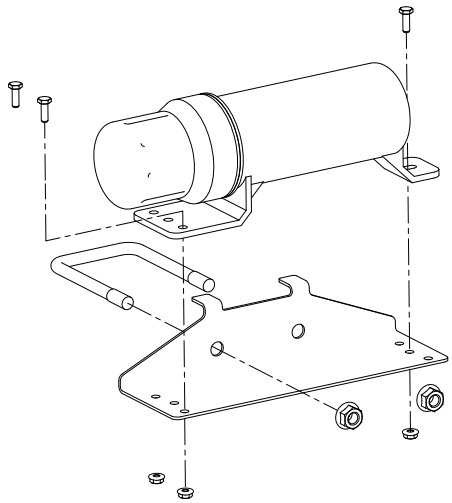
Part No.: GD2117
Description: Tie Strap, 14½"

Part No.: GD2984
Description: Tie Strap, 34"

	Part No.: GD10057-01 Description: Hose Identification Sleeve, Red AA Part No.: GD10057-02 Description: Hose Identification Sleeve, Red BB Part No.: GD10057-03 Description: Hose Identification Sleeve, Blue AA Part No.: GD10057-04 Description: Hose Identification Sleeve, Blue BB Part No.: GD10057-19 Description: Hose Identification Sleeve, Orange CD
	Part No.: G7100-295 Description: Decal, Spring Tension Release Quantity: -
	Part No.: G7100-177 Description: Decal, Twin-Line®, ¾" x 3" Quantity: 1
	Part No.: G7100-234 Description: Decal, Bolt Torque Quantity: -
	Part No.: G7100-387 Description: Decal, Warning Quantity: 1
	Part No.: G7100-121 Description: Decal, Transmission Quantity: 1
	Part No.: G7100-153 Description: Decal, Information Quantity: 1 Per Brush-Type Seed Meter

	Part No.: G7100-337 Description: Decal, Instruction
	Part No.: G7100-329 Description: Tag, Fan Motor Case Drain
	Part No.: G7100-352 Description: Decal, Tank Drain
	Part No.: G7100-111 Description: Decal, Oil Daily
	Part No.: G7100-116 Description: Decal, Grease Daily
	Part No.: G7100-110 Description: Decal, Grease Weekly
	Part No.: GR0155 Description: Blue Paint, Aerosol Can Part No.: GR0155MPP Description: Blue Paint, Twelve Aerosol Cans
	Part No.: GR0146 Description: Powdered Graphite, 1 Pound Container Part No.: GR0146MPP Description: Powdered Graphite, Twenty-Four 1 Pound Containers
	Part No.: GR1570MPP Description: Talc Lubricant, Four 8 Pound Containers Part No.: GR1828 Description: Talc Lubricant, 30 Pound Container

	Part No.: GR1842MPP Description: Graphite Lubricant, Four 5 Pound Containers
	Part No.: GR2240 Description: Talc/Graphite Blend (80 Talc/20 Graphite), 8 Pound Containers Part No.: GR2240MPP Description: Talc/Graphite Blend (80 Talc/20 Graphite), Four 8 Pound Containers
	Part No.: GR2241MPP Description: Dispensing Cap, 10/Package
Not Available	Part No.: GR2217 Description: Fluency Agent Seed Flow Additive, Four 4.4 Pound Pails
KINZE 3500	Part No.: G7100-365 Description: Decal, Kinze 3500 (2015 - 2017 Production) Quantity: 2 (1 On Each Side of Hitch)
KINZE 3500	Part No.: G7100-565 Description: Decal, Kinze 3500 (2018 Production) Quantity: 2 (1 On Each Side of Hitch)
	Part No.: GM0258-01 Description: Operator Manual, Model 3500 Part No.: GM0258-02 Description: Parts Manual, Model 3500 Part No.: GPR1094 Description: Binder (Contact Kinze Repair Parts To Order)



Part No.:	GA15422
Description:	Operator's Manual Canister
Quantity:	1
Part No.:	GD22686
Description:	Manual Canister Bracket
Quantity:	1
Part No.:	GD16642
Description:	U-Bolt, 3" x 4" x ½"-13
Quantity:	1
Part No.:	G10071
Description:	Serrated Flange Nut, ½"-13
Quantity:	2
Part No.:	G11166
Description:	Hex Socket Flange Cap Screw, ¼"-20 x ¾"
Quantity:	3
Part No.:	G11320
Description:	Lock Nut, ¼"-20, Grade B
Quantity:	3



Part No.:	G7100-484
Description:	Decal, American Flag

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*A1109	P104
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