

MODEL 3000
RIGID FRAME PLANTER
(Mechanical Seed Metering)

PARTS MANUAL

M0188-02

Rev. 3/17

This manual applies to: Model: 3000 Pull Type Planters
Serial Number: 643579 and later

Record serial number of your planter and 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.

Hardware Size / Tool Required			
$\frac{1}{4}" = \frac{7}{16}"$	$\frac{7}{16}" = \frac{5}{8}"$ (nut for $\frac{7}{16}"$ hardware uses $\frac{1}{16}"$ tool)	$\frac{3}{4}" = 1\frac{1}{8}"$	$1\frac{1}{4}" = 1\frac{7}{8}"$
$\frac{5}{16}" = \frac{1}{2}"$	$\frac{1}{2}" = \frac{3}{4}"$	$\frac{7}{8}" = 1\frac{5}{16}"$	$1\frac{1}{2}" = 2\frac{1}{4}"$
$\frac{3}{8}" = \frac{9}{16}"$	$\frac{5}{8}" = 1\frac{5}{16}"$	$1" = 1\frac{1}{2}"$	

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FERTILIZER

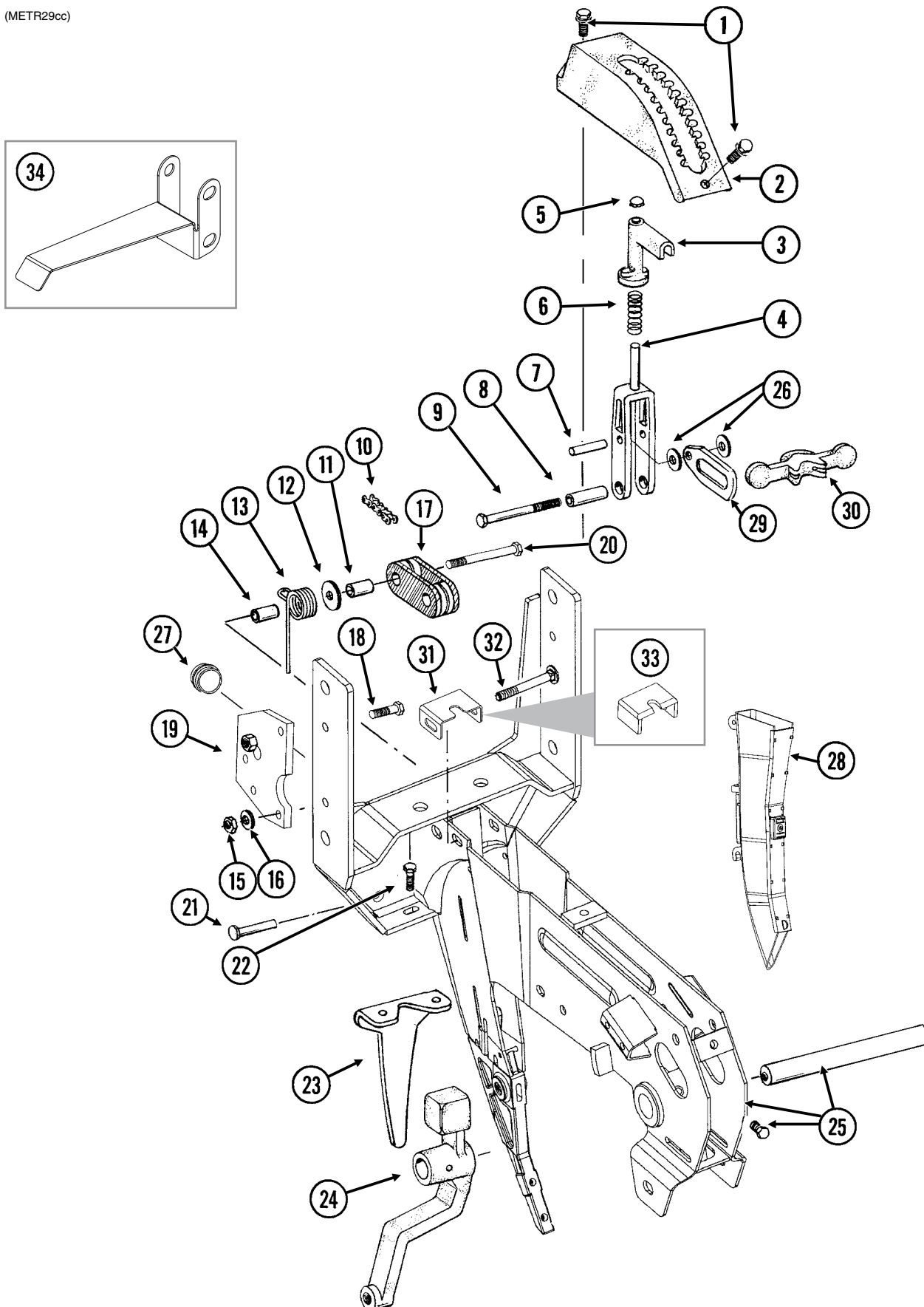
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MISCELLANEOUS

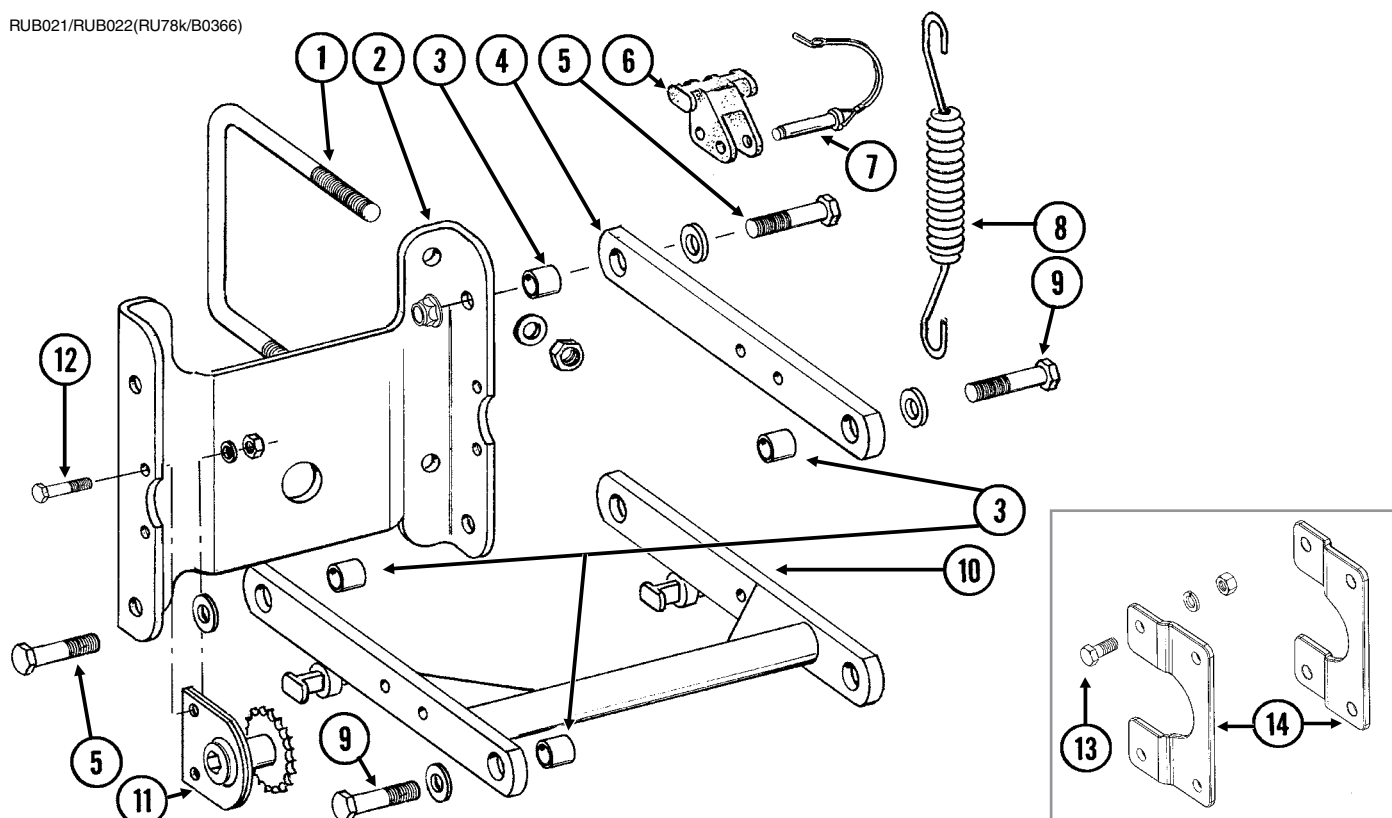
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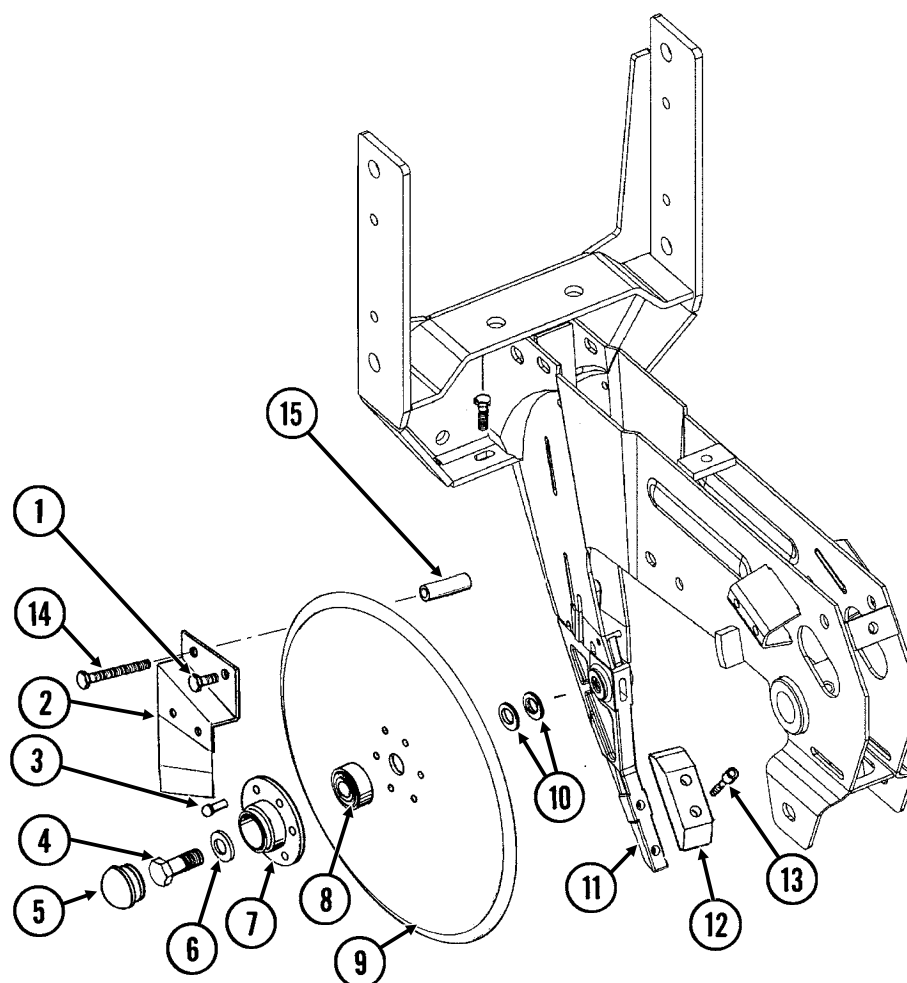
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11015	2	Hex Washer Head Cap Screw, 3/8"-16 x 1 1/4"
2	GB0274	1	Cover, Depth Adjustment
3	GB0266	1	Handle, Depth Adjustment
4	GB0267	1	Lever, Depth Adjustment
5	GD3612	1	Cap Plug
6	GD10993	1	Spring
7	GD13361	1	Pin, 3/8" x 1 2/3"
8	GD11259	1	Sleeve, 3/8" I.D. x 5/8" O.D. x 1 25/32" Long
9	G11592	1	Hex Head Cap Screw, 3/8"-24 x 2 3/4", Grade 8
	G11591	1	Nylon Lock Nut, 3/8"-24, Grade C
10	G3303-98	1	Chain, No. 41, 98 Pitch Including Connector Link
	G3303-16	1	Chain, No. 41, 16 Pitch Including Connector Link (Used W/Row Unit Extension Brackets)
	GR0196	1	Connector Link, No. 41
11	GD1026	1	Sleeve, 1 3/16" Long
12	G10201	1	Special Washer, 3/8" x 1 1/2" O.D.
13	GD1065	1	Idler Spring
14	GD7318	1	Sleeve, 1" Long
15	G10108	1	Lock Nut, 3/8"-16
16	G11387	1	Flat Washer, 3/8" SAE
17	GD11962	1	Idler
18	G10003	3	Hex Head Cap Screw, 3/8"-16 x 1 1/2"
	G10108	3	Lock Nut, 3/8"-16
19	GD24545	2	Row Unit Stop
20	G10326	1	Hex Head Cap Screw, 3/8"-16 x 3 3/4"
21	G10551	1	Clevis Pin, 1/4" x 2 1/2"
	G10669	1	Hair Pin Clip, No. 22
22	G10312	2	Carriage Bolt, 5/16"-18 x 3/4"
	G10620	2	Serrated Flange Nut, 5/16"-18
23	GD28390	1	Shield
24	---	-	See "Gauge Wheels" on page P5
25	GA10157	1	Shank W/Gauge Wheel Pivot Spindle and Set Screw
	GD11001	-	Spindle
	G10438	-	Hex Head Cap Screw, 1/2"-13 x 3/4"
26	G10207	2	Washer, 7/8" O.D. x 1 3/32" I.D. x .134" (If Applicable)
27	GD11845	1	Dust Cap
28	---	-	See "KPM I Electronic Seed Monitor" on page P85
	---	-	See "KPM II Stack-Mode Electronic Seed Monitor" on page P87
	---	-	See "KPM III Electronic Seed Monitor" on page P89
29	GB0285	1	Collar, Depth Adjustment
30	GB0265	1	Pivot Link, Depth Adjustment
31	GD15970	1	Sun Shade
32	G10304	1	Carriage Bolt, 3/8"-16 x 3"
	G10108	1	Lock Nut, 3/8"-16
33	GD16245	-	Sun Shade (Rubber)
34	GD29806	-	Seed Tube Bracket

RUB021/RUB022(RU78k/B0366)



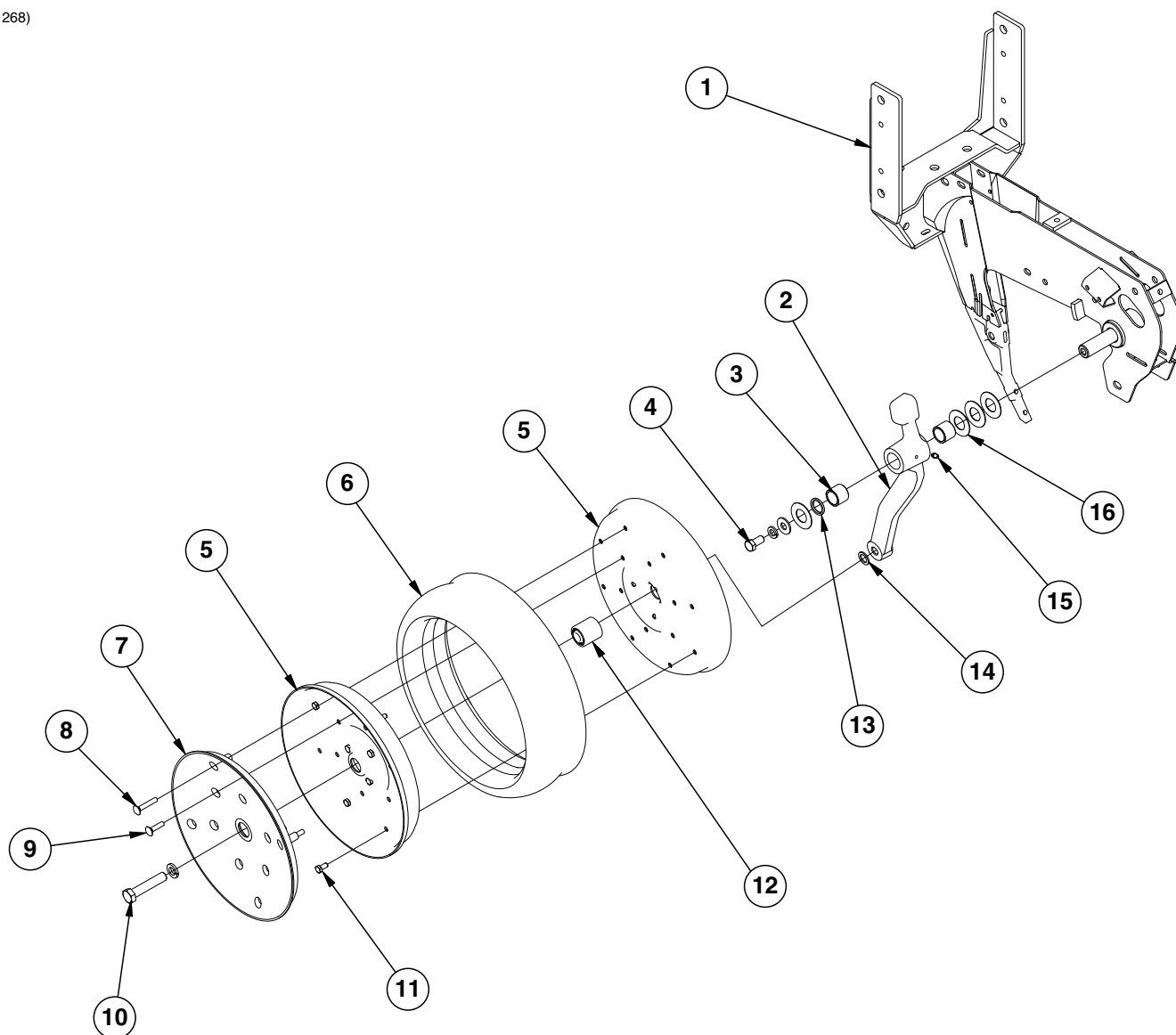
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1114	2	U-Bolt, 7" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
2	GD10036	1	Mounting Support Plate
3	GB0218	4	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
4	GD11422	2	Upper Parallel Arm
5	G10732	4	Hex Head Cap Screw, 5/8"-18 x 2"
	G11391	4	Flat Washer, 5/8" SAE
	G11514	4	Lock Nut, 5/8"-18
6	GB0186	2	Spring Anchor
7	GD14217	2	Tab Lock Pin, 7/16" x 1 1/2"
8	GD8249	2-4	Spring
9	---	-	See "Hopper Support and Meter Drive" on page P13
10	GA5651	1	Lower Parallel Arm
11	GA1720	1	Bearing/Sprocket, 7/8" Hex Bore
12	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
13	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
14	GB0366	2	Extension Bracket
A	G6326X	-	U-Bolt Package For 7" x 7" Toolbar, Includes: (2) GD1114, (4) G10230, (4) G10104

(RU139)



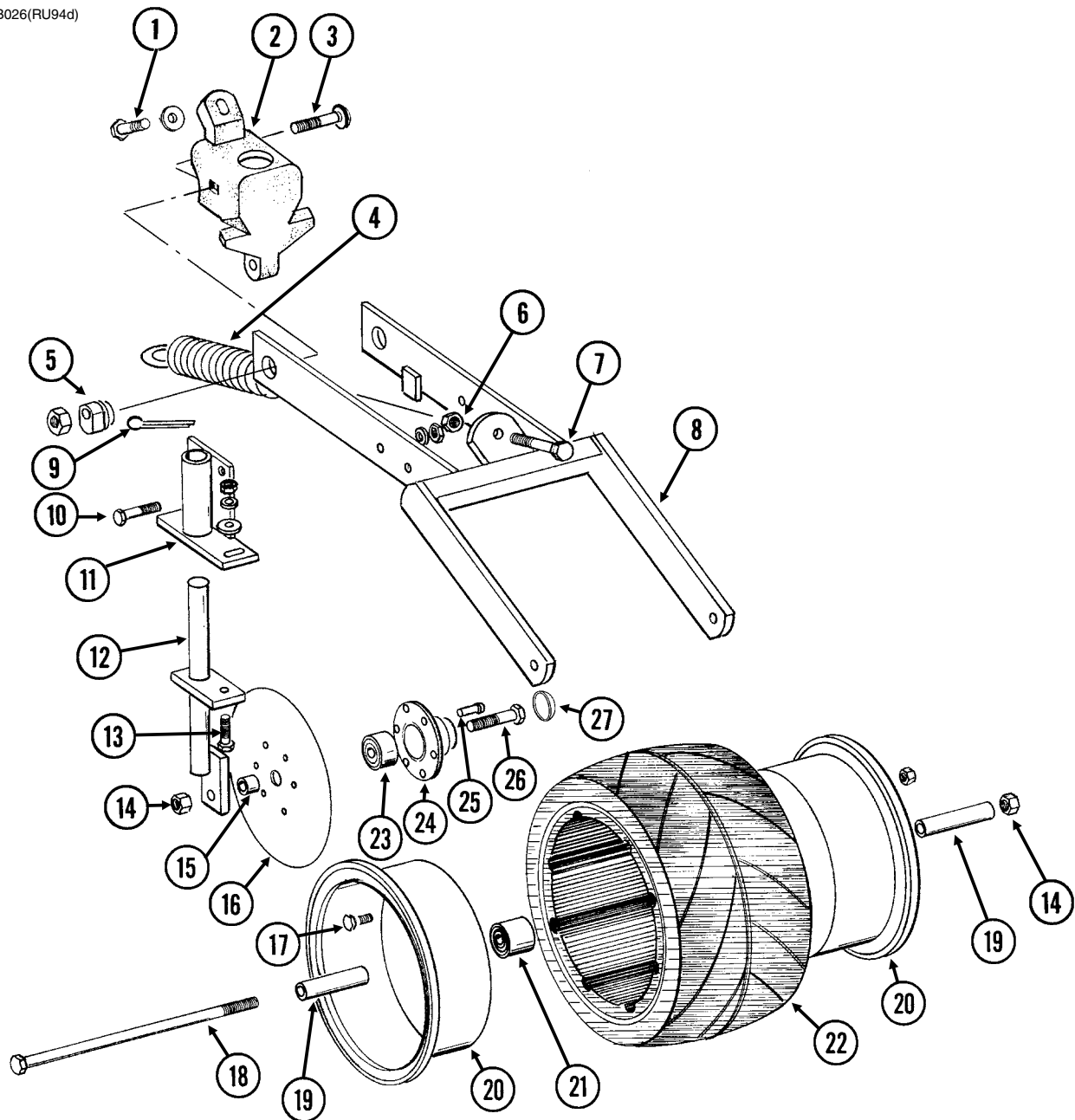
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10328	2	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $\frac{5}{8}$ "
	G10622	2	Serrated Flange Nut, $\frac{3}{8}$ "-16
2	GA2012R	1	Disc Scraper, R.H.
	GA2012L	-	Disc Scraper, L.H. (Shown)
3	G10427	12	Rivet, $\frac{1}{4}$ " x $\frac{1}{2}$ "
4	GD11017	1	Special Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{1}{2}$ ", L.H. Threads
	G10007	1	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{1}{2}$ "
5	GD11845	2	Dust Cap
6	G10204	2	Special Machine Bushing, $\frac{5}{8}$ " x 1" O.D.
7	GD10473	2	Bearing Housing
8	GA2014	2	Bearing
9	GD11306	2	Disc Blade, 3.5 mm x 15"
10	GD30725	-	Machine Bushing, $\frac{5}{8}$ " (.030" Thick) (As Required)
11	---	-	See "Shank Assembly, Seed Tube, and Depth Adjustment" on page P1
12	GB0301	1	Seed Tube Guard/Inner Scraper
13	G10912	2	Hex Socket Head Cap Screw, $\frac{5}{16}$ "-18 x 1", Grade 8
14	G10325	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $2\frac{3}{4}$ "
	G10622	1	Serrated Flange Nut, $\frac{3}{8}$ "-16
15	GD2971-26	1	Sleeve, $\frac{3}{8}$ " I.D x $\frac{5}{8}$ " O.D. x 1.63" Long
A	GA8324	-	Disc Blade/Bearing Assembly, Less Dust Cap (Items 3 and 7-9)

(IP1268)



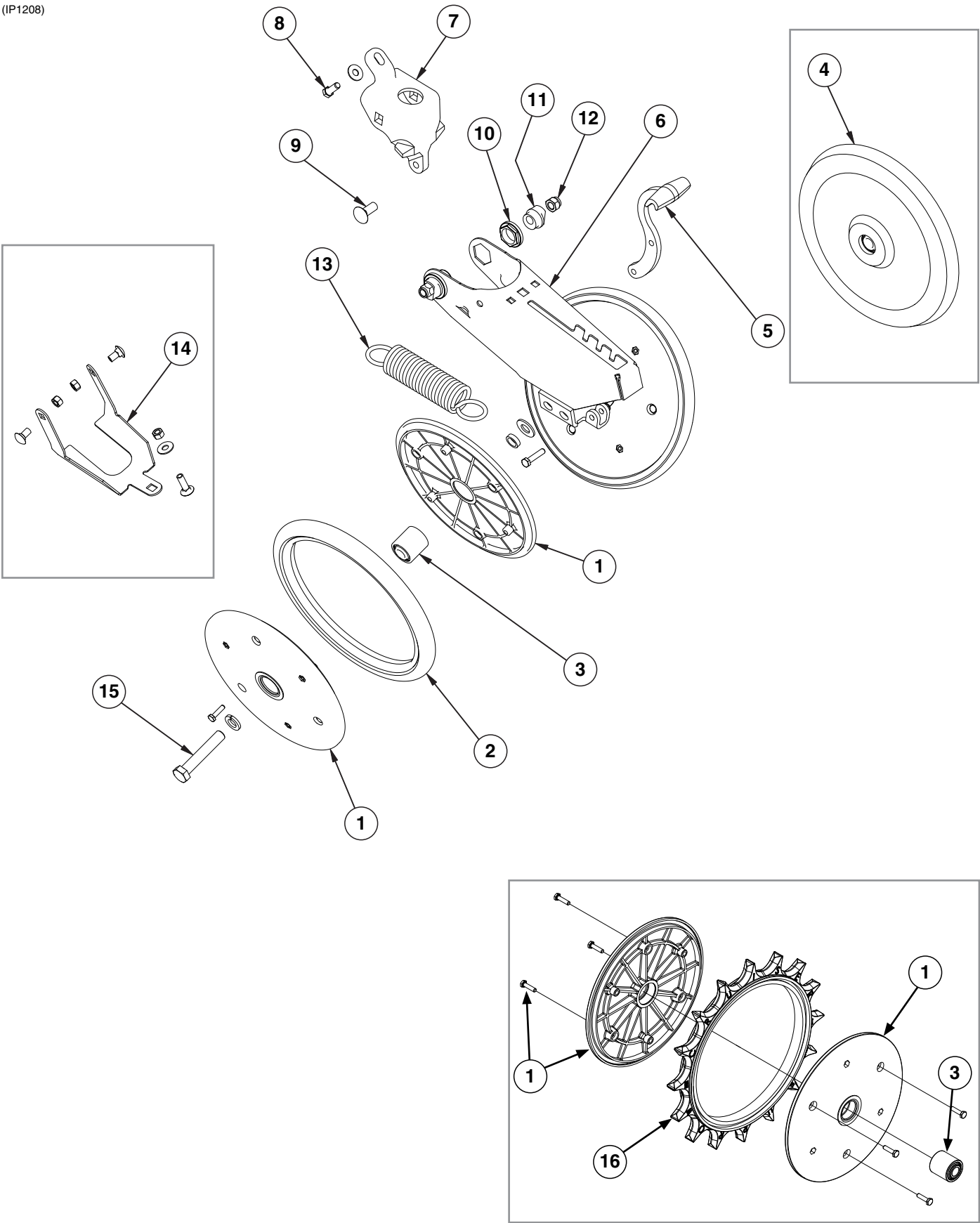
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA10157	-	See "Shank Assembly, Seed Tube, and Depth Adjustment" on page P1
2	GA7975	1	Wheel Arm W/Grease Fitting, Bushings, and Seals, L.H. (Shown) (Includes Items 3 and 13)
	GA7976	1	Wheel Arm W/Grease Fitting, Bushings, and Seals, R.H. (Includes Items 3 and 13)
3	GB0276	2	Bushing, 1" I.D. x 1¼" O.D. x 1" Long (Per Arm)
4	G10014	1	Hex Head Cap Screw, ½"-13 x 1"
	G10228	2	Lock Washer, ½"
	G10216	2	Washer, ½" USS
5	GD31466	4	Half Wheel
6	GD1086	2	Tire
7	GD11453	2	Cover
8	G10924	8	Carriage Bolt, ⅝"-18 x 1¼"
	G10620	8	Serrated Flange Nut, ⅝"-18
9	G10338	12	Carriage Bolt, ⅝"-18 x 1¼"
	G10620	12	Serrated Flange Nut, ⅝"-18
10	G10010	2	Hex Head Cap Screw, ⅝"-11 x 3"
11	G10018	14	Hex Head Cap Screw, ⅝"-18 x ⅝"
	G10109	14	Lock Nut, ⅝"-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	GA7949	-	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

RUA054/RUB026(RU94d)



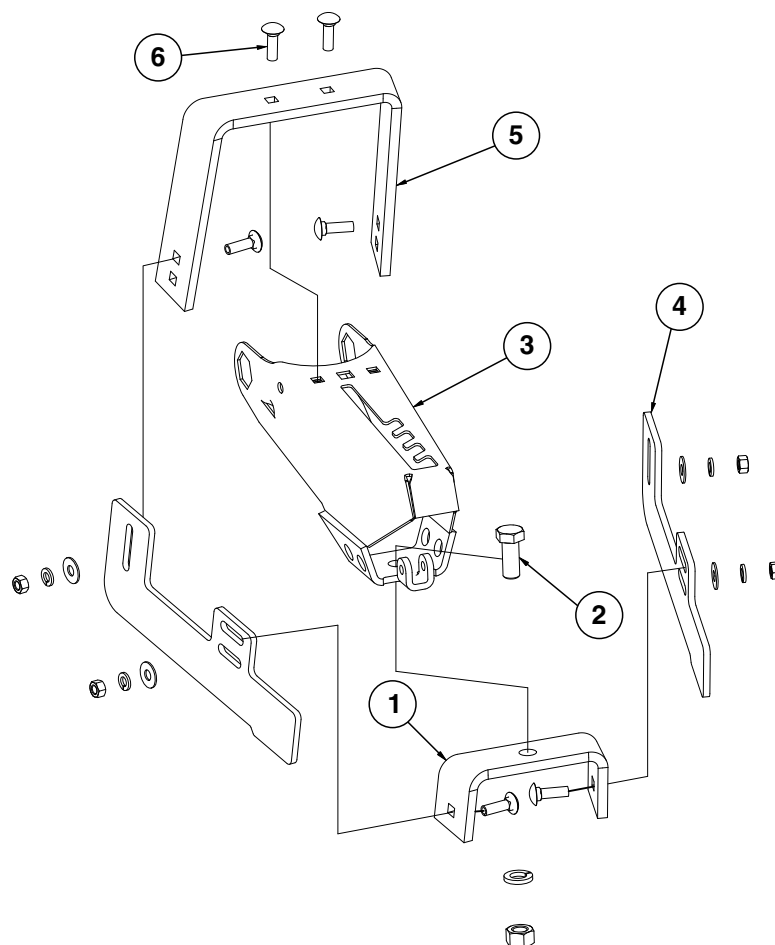
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	1	Flat Washer, 3/8" SAE
2	GB0268	1	Wheel Arm Stop
3	G11419	2	Carriage Bolt, 1/2"-13 x 2 1/4"
	G10315	-	Carriage Bolt, 1/2"-13 x 2 1/2" (Used W/Straight Drop In-Furrow Granular Chemical Bracket)
	G10102	2	Hex Nut, 1/2"-13
4	GA2054	1	Spring
5	GB0239	2	Eccentric Bushing
6	G10102	1	Hex Nut, 1/2"-13
7	G10015	1	Adjusting Bolt, 1/2"-13 x 5"
8	GA6619	1	Mounting Arm
9	G10463	2	Cotter Pin, 1/4" x 1 1/2"
10	G10171	4	Hex Head Cap Screw, 5/16"-18 x 1 1/4"
	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, 5/8"-11
15	GD1109	2	Bushing, 4 1/64" I.D. x 7/8" O.D. x 1/4" Long
16	GD9290	2	Disc Blade, 8"
17	G10018	7	Hex Head Cap Screw, 5/16"-18 x 5/8"
	G10109	7	Lock Nut, 5/16"-18, Grade 8
18	G10152	1	Hex Head Cap Screw, 5/8"-11 x 9"
19	GD3180-12	2	Sleeve, 5/8" I.D. x 7/8" O.D. x 2 7/8" 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, 1/4" x 1/2"
26	G10006	2	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
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)

(IP1208)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD9120	4	Nylon Half Wheel
	G10064	12	Hex Head Cap Screw, 1/4"-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
5	GB0254	1	Lever
	G10133	1	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	1	Lock Nut, 5/16"-18, Grade 8
6	GA15197	1	Closing Wheel Arm
7	GB0268	1	Wheel Arm Mount
8	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	2	Flat Washer, 3/8" SAE
9	G11419	2	Carriage Bolt, 1/2"-13 x 2 1/4"
	G10315	-	Carriage Bolt, 1/2"-13 x 2 1/2" (Used W/Straight Drop In-Furrow Granular Chemical Bracket)
	G11387	-	Flat Washer, 3/8" SAE
10	GB0282	2	Stepped Bushing
11	GB0239	2	Eccentric Bushing
12	G10111	2	Lock Nut, 1/2"-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, 3/8"-16 x 1 1/4" (Included W/G1K345)
	G10308	2	Carriage Bolt, 3/8"-16 x 3/4" (Included W/G1K345)
	G10101	3	Hex Nut, 3/8"-16 (Included W/G1K345)
	G10229	3	Lock Washer, 3/8" (Included W/G1K345)
	G11387	1	Hardened Washer, 3/8" SAE (Included W/G1K345)
15	G10013	2	Hex Head Cap Screw, 5/8"-11 x 3 1/2"
	G11391	2	Flat Washer, 5/8" SAE
	GD1109	2	Bushing, 4 1/64" I.D. x 7/8" O.D. x 1/4" Long
	G10230	2	Lock Washer, 5/8"
	G10107	2	Lock Nut, 5/8"-11
16	GD31353MPP	2	Spiked Wheel Insert (Package of 2)
A	GA6434	-	Rubber Closing Wheel Complete W/Bearing (Items 1-3)

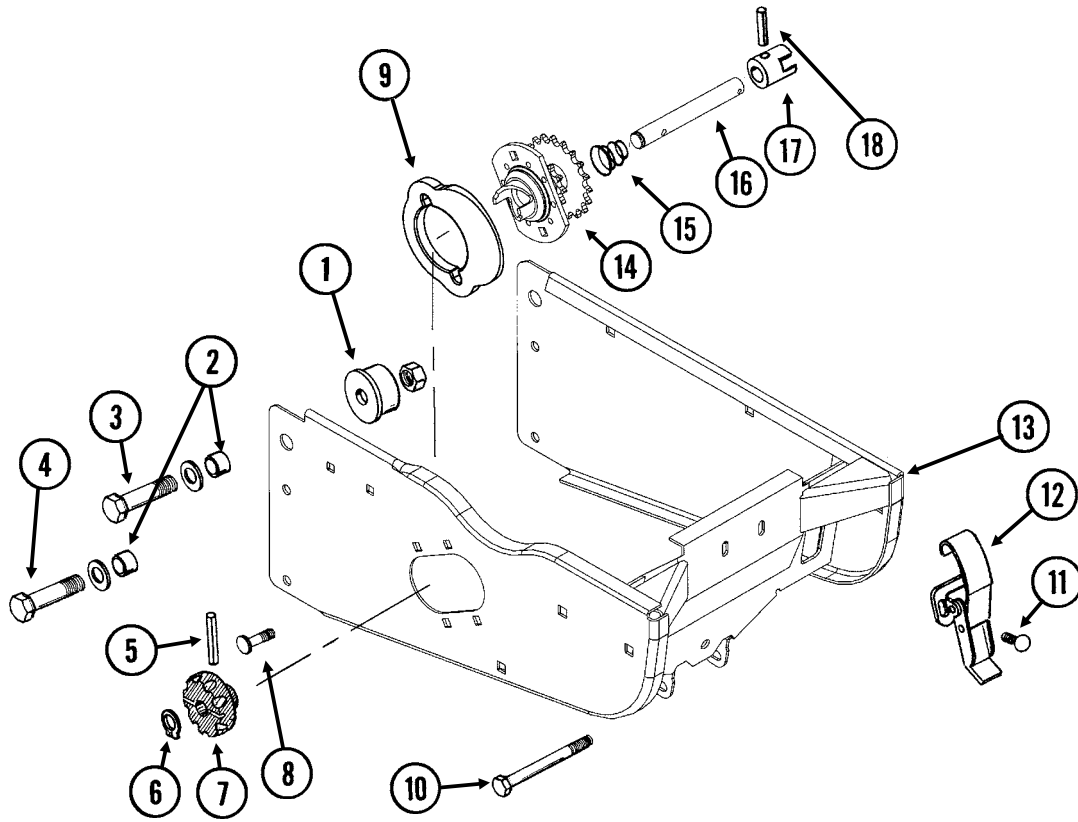
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ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD11509	1	Rear Bracket
2	G10007	1	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
	G10230	1	Lock Washer, 5/8"
	G10104	1	Hex Nut, 5/8"-11
3	GA15197	1	Closing Wheel Arm
4	GD11313	2	Blade
5	GD11508	1	Front Bracket
6	G10599	6	Carriage Bolt, 3/8"-16 x 1 1/4"
	G10229	6	Lock Washer, 3/8"
	G11387	6	Flat Washer, 3/8" SAE
	G10101	6	Hex Nut, 3/8"-16
A	G7566X	-	Drag Closing Attachment Complete (Items 1-6)

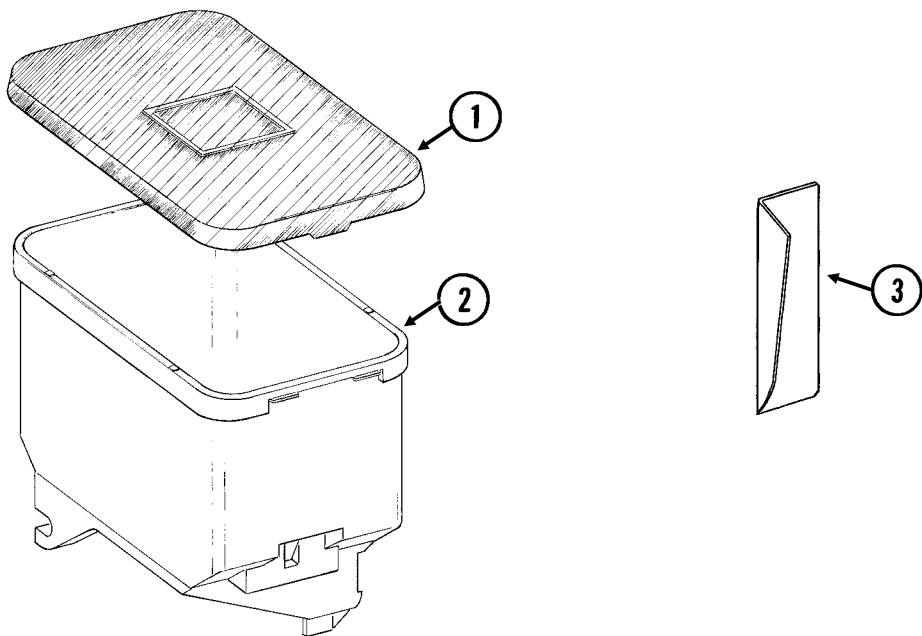
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(METR2d)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GB0314	2	Hopper Mount
2	GB0218	4	Bushing, $2\frac{1}{32}$ " I.D. x $\frac{7}{8}$ " O.D. x $1\frac{9}{32}$ " Long
3	G10752	2	Hex Head Cap Screw, $\frac{5}{8}$ "-18 x $2\frac{1}{4}$ "
	G11391	2	Flat Washer, $\frac{5}{8}$ " SAE
	G11514	2	Lock Nut, $\frac{5}{8}$ "-18
4	G10751	2	Hex Head Cap Screw, $\frac{5}{8}$ "-18 x $1\frac{3}{4}$ "
	G11391	2	Flat Washer, $\frac{5}{8}$ " SAE
	G11514	2	Lock Nut, $\frac{5}{8}$ "-18
5	G10602	1	Spring Pin, $\frac{1}{4}$ " x $1\frac{1}{2}$ "
6	G10567	1	External Retaining Ring, $\frac{5}{8}$ "
7	GD11239	1	Knob
8	G10338	2	Carriage Bolt, $\frac{5}{16}$ "-18 x $1\frac{1}{4}$ "
	G10620	2	Serrated Flange Nut, $\frac{5}{16}$ "-18
9	GB0331	1	Clutch Adapter Plate
10	G10061	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $3\frac{1}{2}$ "
	G11387	2	Flat Washer, $\frac{3}{8}$ " SAE
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
11	G10309	2	Carriage Bolt, $\frac{1}{4}$ "-20 x $\frac{5}{8}$ ", Grade 2
	G10621	2	Serrated Flange Nut, $\frac{1}{4}$ "-20
12	GA2007	1	Hopper Hold Down Latch
13	GA10155	1	Hopper Support
14	GA10137	1	Double Sprocket and Bearing, Drive Clutch, 11/19 Tooth
15	GD11413	1	Spring
16	GD15747	1	Shaft
17	GB0278	1	Coupler
18	G10546	1	Spring Pin, $\frac{3}{16}$ " x $1\frac{1}{4}$ "
A	GA10151	-	Seed Meter Clutch Assembly, 11/19 Tooth (Items 5-7 and 14-18)

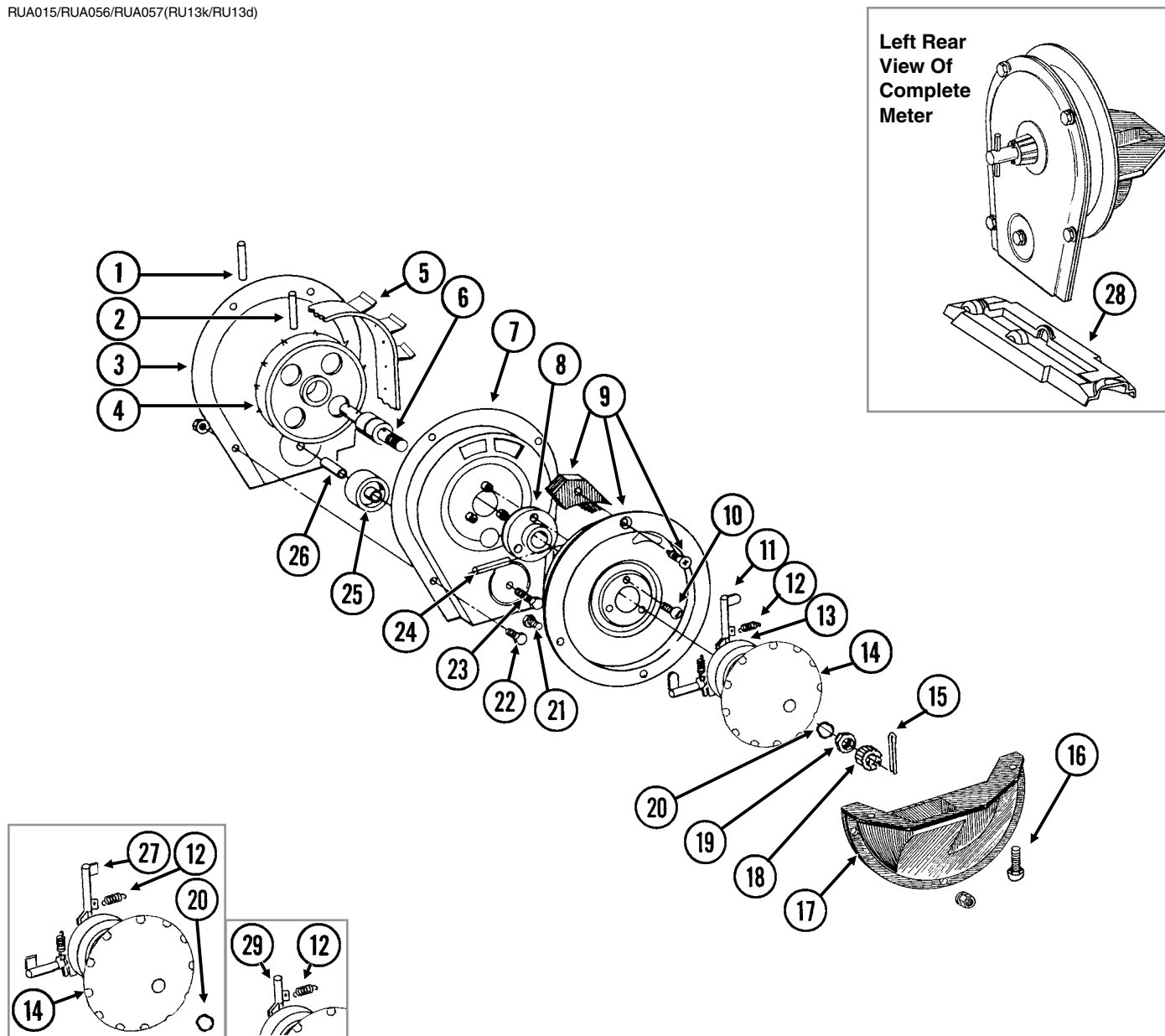
(RU87e/RU87a)



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

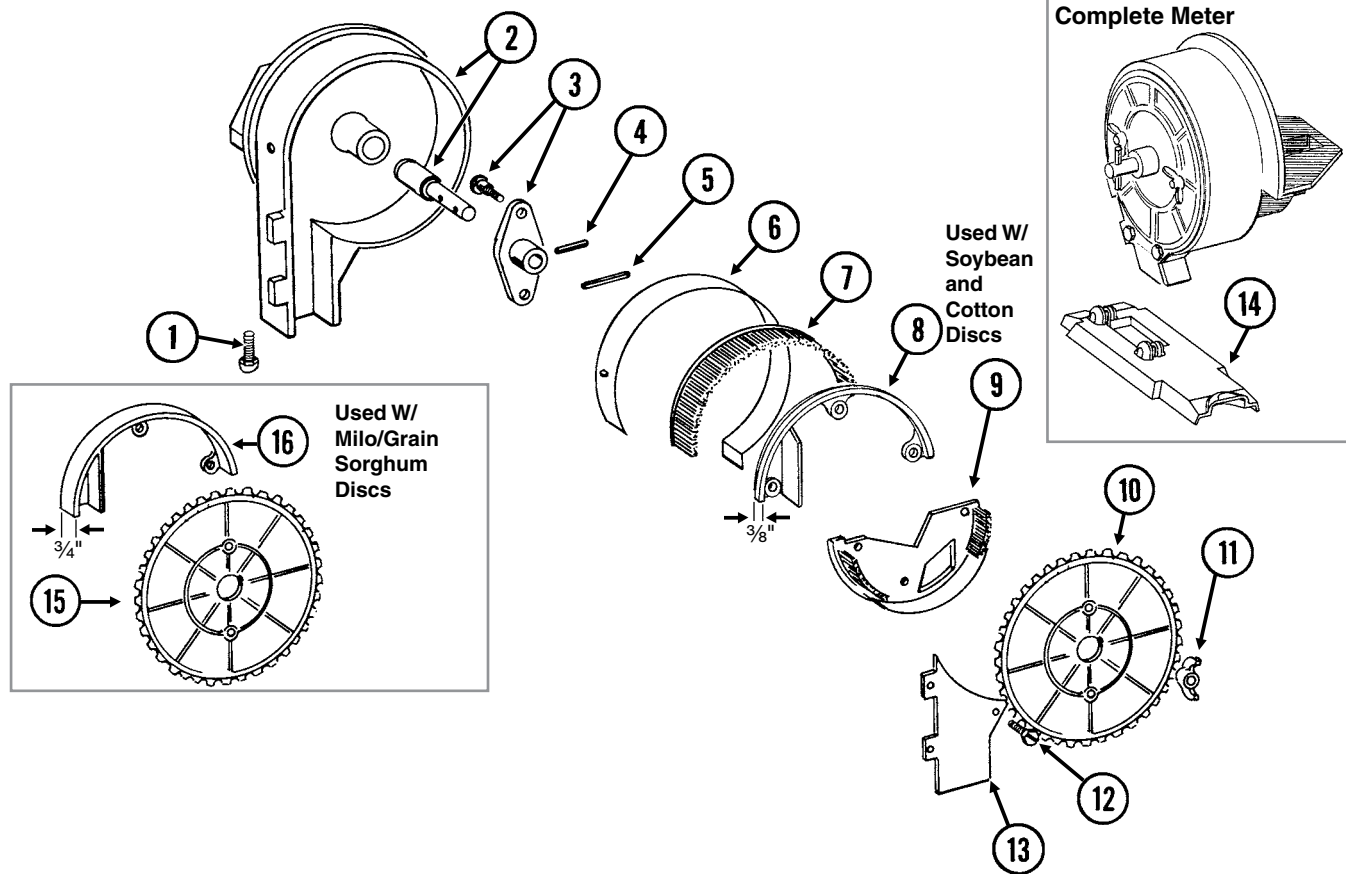
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RUA015/RUA056/RUA057(RU13k/RU13d)



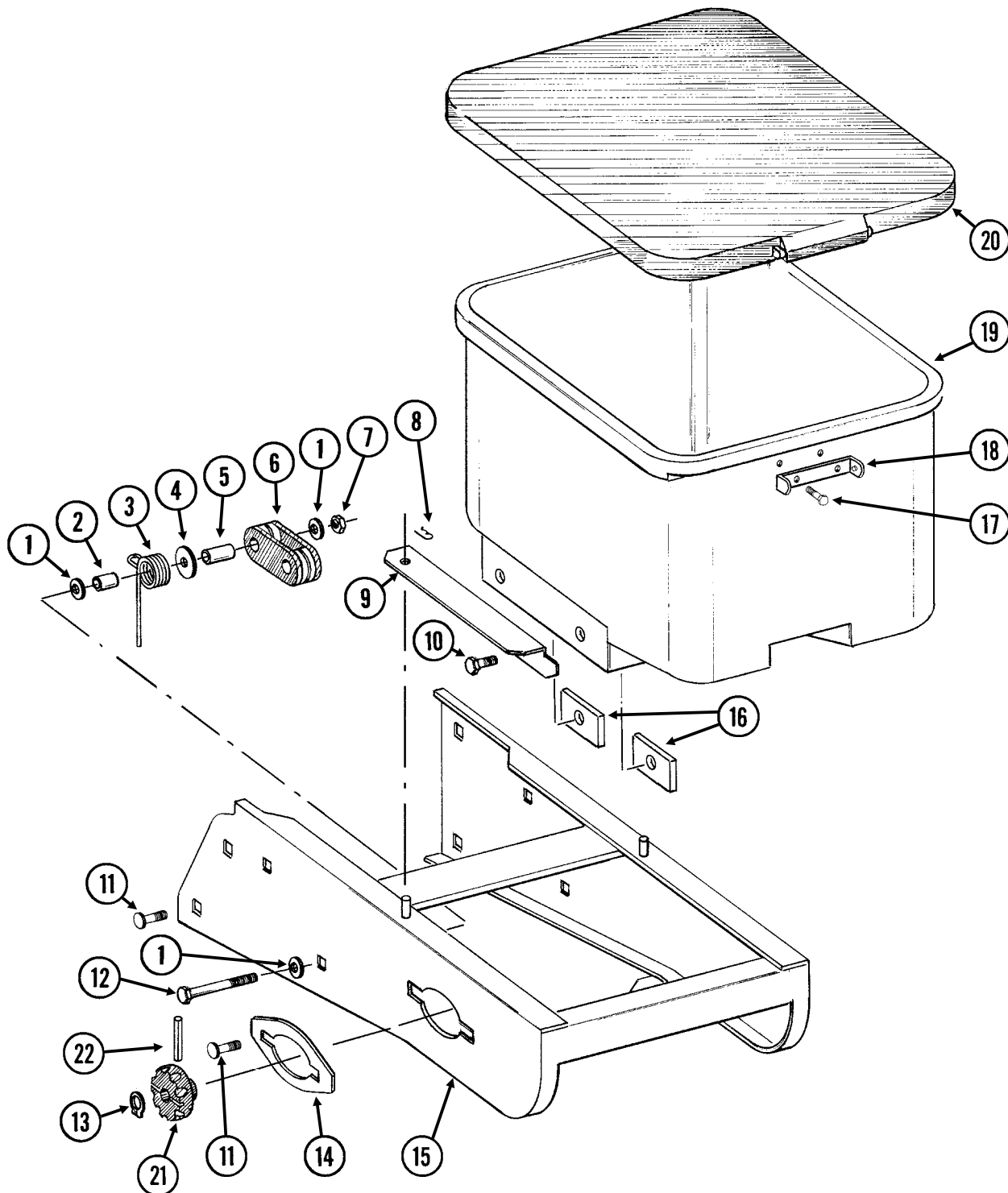
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10602	1	Spring Pin, 1/4" x 1 1/2"
2	G10604	1	Spring Pin, 3/16" x 1 1/2"
3	GD26419	1	Housing Cover
4	GD1041	1	Belt Drive Sprocket
5	GD11286	1	Seed Belt
6	GA2019	1	Bearing
7	GA18201	1	Conveyor Housing
8	GB0110	1	Bearing Housing
9	GR1569	-	Carrier Plate W/Brush and Screw (Corn)
	GR0664	-	Carrier Plate W/Brush and Screw (Sunflower)
	GA2020	-	Brush
	G10690	-	Rolling Thread Screw, No. 10 x 3/4"
10	G10401	3	Slotted Hex Washer Head Screw, No. 10-32 x 5/8"
11	GD18704	12	Finger, Corn
12	GD19790	12	Spring
13	GB0410	1	Cam
14	GD11528	1	Finger Holder (Corn and Sunflower - Used With GR1848)
	GD26594	-	Finger Holder (Corn and Sunflower - Used With GR2154)
15	G10470	1	Cotter Pin, 5/32" x 1"
16	G11009	2	Locking Thumbscrew, 5/16"-18 x 3/4"
17	GD11311	1	Seed Baffle
18	GD1083	1	Cover Nut
19	G10500	1	Jam Nut, 5/8"-18 UNF
20	GA8343	1	Wave Washer, 5/8" (Triple Wave)
21	G10020	3	Hex Head Cap Screw, 1/4"-20 x 5/8"
	G10323	3	Hex Flange Nut, 1/4"-20, No Serrations
22	G10022	4	Hex Head Cap Screw, 1/4"-20 x 1/2"
	G10621	4	Serrated Flange Nut, 1/4"-20
23	G10021	1	Hex Head Cap Screw, 1/4"-20 x 1 1/2"
	G10621	1	Serrated Flange Nut, 1/4"-20
24	G10603	1	Spring Pin, 1/4" x 1 1/4"
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
30	GB0410	-	Cam (Sunflower)
A	GR1848	-	Finger Assembly, Corn (Items 11-14 and 20)
B	GR2154	-	Finger Assembly, Sunflower (Items 12, 14, 20, 27, and 30)
C	700-01082	-	Corn Meter Assembly (Items 1-26 and 28)
D	900-01117	-	Sunflower Meter Assembly (Items 1-10, 12, 14-15, 17-27, and 30)

RUA037/RUA056/RUA057(RU14f)



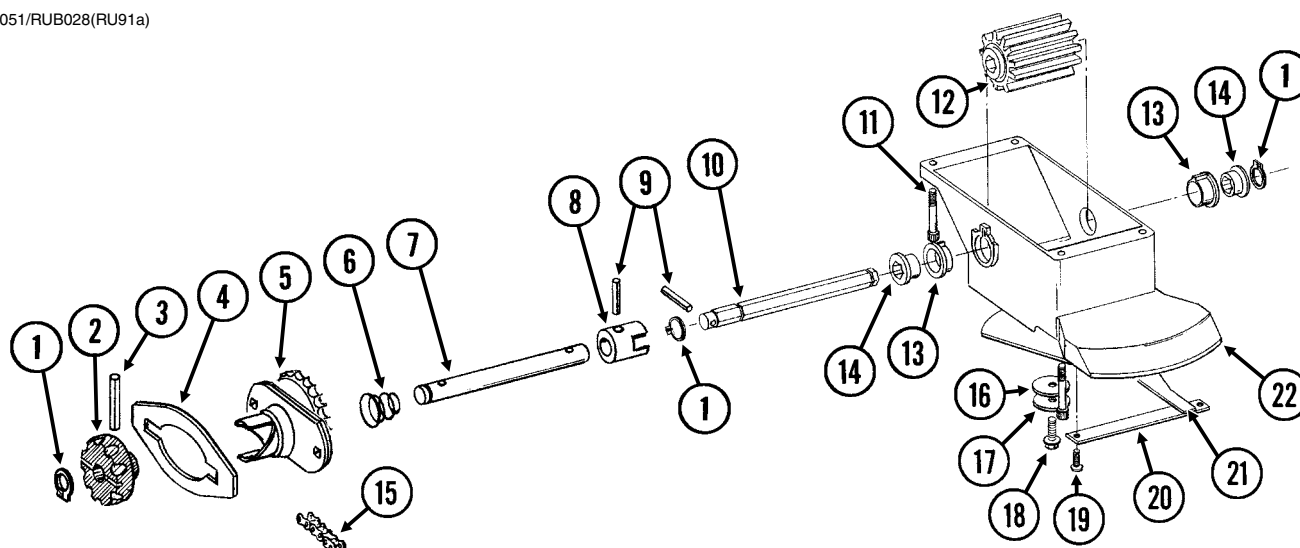
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11009	2	Locking Thumbscrew, 5/16"-18 x 3/4"
2	GA18208	1	Housing W/Bearing
	GA5698	-	Bearing (Included W/GA18208)
3	GA6038	1	Hub W/Shoulder Bolts
	GD1755	-	Shoulder Bolt, 1/4"-20 (2 Used)
4	G10603	1	Spring Pin, 1/4" x 1 1/4"
5	G10602	1	Spring Pin, 1/4" x 1 1/2"
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, 1/4"-20
12	G11151	9	Hex Washer Head Screw, No. 10-16 x 1/2"
	G10634	-	Slotted Tap Screw, No. 10-24 x 5/8" (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)

(METR14d)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11387	3	Flat Washer, 3/8" SAE
2	GD2971-10	1	Sleeve, 9/16" Long
3	GD11219	1	Spring
4	G10201	1	Special Washer, 3/8" x 1 1/2" O.D.
5	GD1026	1	Sleeve, 1 3/16" Long
6	GD11962	1	Idler
7	G10108	1	Lock Nut, 3/8"-16
8	G10670	2	Hair Pin Clip, No. 3
9	GD1059L	1	Support, L.H. (Shown)
	GD1059R	1	Support, R.H.
10	G10002	4	Hex Head Cap Screw, 3/8"-16 x 3/4"
	G10229	4	Lock Washer, 3/8"
11	G10312	8	Carriage Bolt, 5/16"-18 x 3/4"
	G10620	8	Serrated Flange Nut, 5/16"-18
12	G10325	1	Hex Head Cap Screw, 3/8"-16 x 2 3/4"
13	G10567	3	External Retaining Ring, 5/8"
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	2	Hex Head Cap Screw, 1/4"-20 x 3/4"
	G10621	2	Serrated Flange Nut, 1/4"-20
18	GD1060	1	Hinge
19	GA8371	1	Hopper
20	GA4444	1	Lid
21	GD11239	1	Knob
22	G10602	1	Spring Pin, 1/4" x 1 1/2"

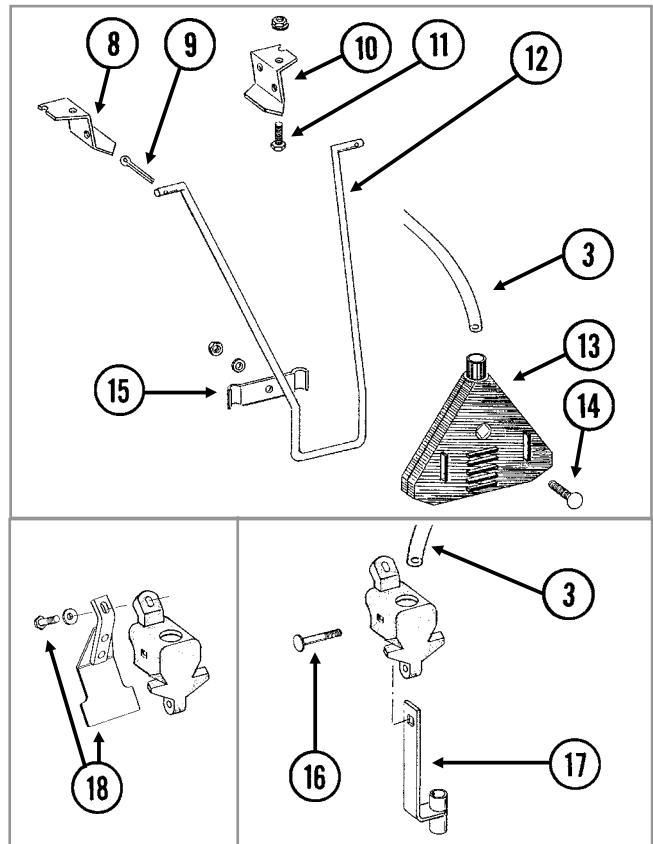
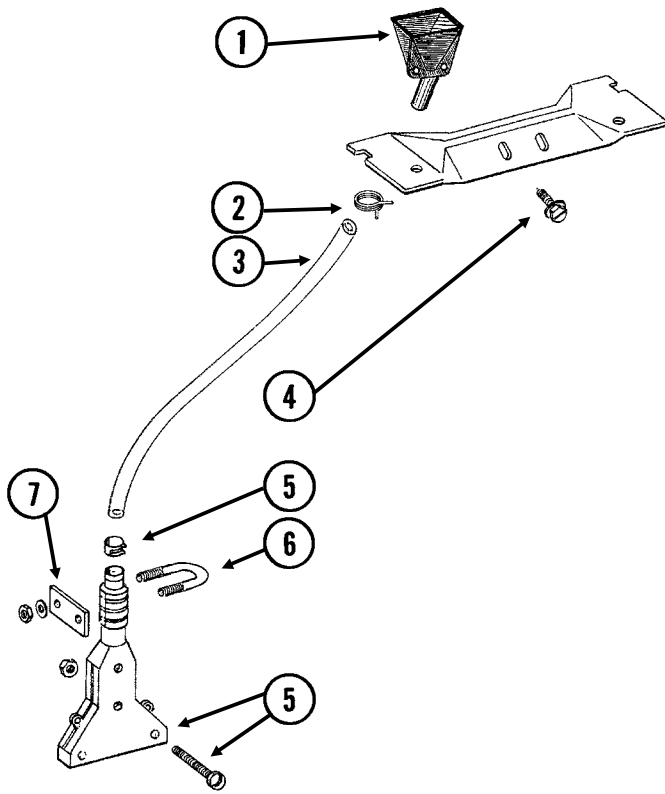
RUA051/RUB028(RU91a)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10567	3	External Retaining Ring, 5/8"
2	GD11239	1	Knob
3	G10602	1	Spring Pin, 1/4" x 1 1/2"
4	---	-	See "Granular Chemical Hopper and Hopper Panel Extension" on page P21
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 1 1/4"
10	GD11297	1	Shaft
11	G11793	4	Hex Socket Head Cap Screw, No. 10-24 x 7/8"
12	GD7148	1	Feed Roller, Hex Bore
13	GB0115	2	Bearing
14	GD7258	2	Hex Bushing
15	G3303-114	1	Chain, No. 41, 114 Pitch Including Connector Link
	GR0196	1	Connector Link, No. 41
16	G10660	1	Wave Washer, 1/2"
17	G11385	1	Flat Washer, 1/4" SAE
18	G10570	1	Slotted Hex Self-Tapping Screw, 1/4"-20 x 3/4"
19	G11073	2	Slotted Hex Self-Tapping Screw, No. 10 x 3/8"
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 Chemical Meter Clutch (Items 1-3 and 5-9)

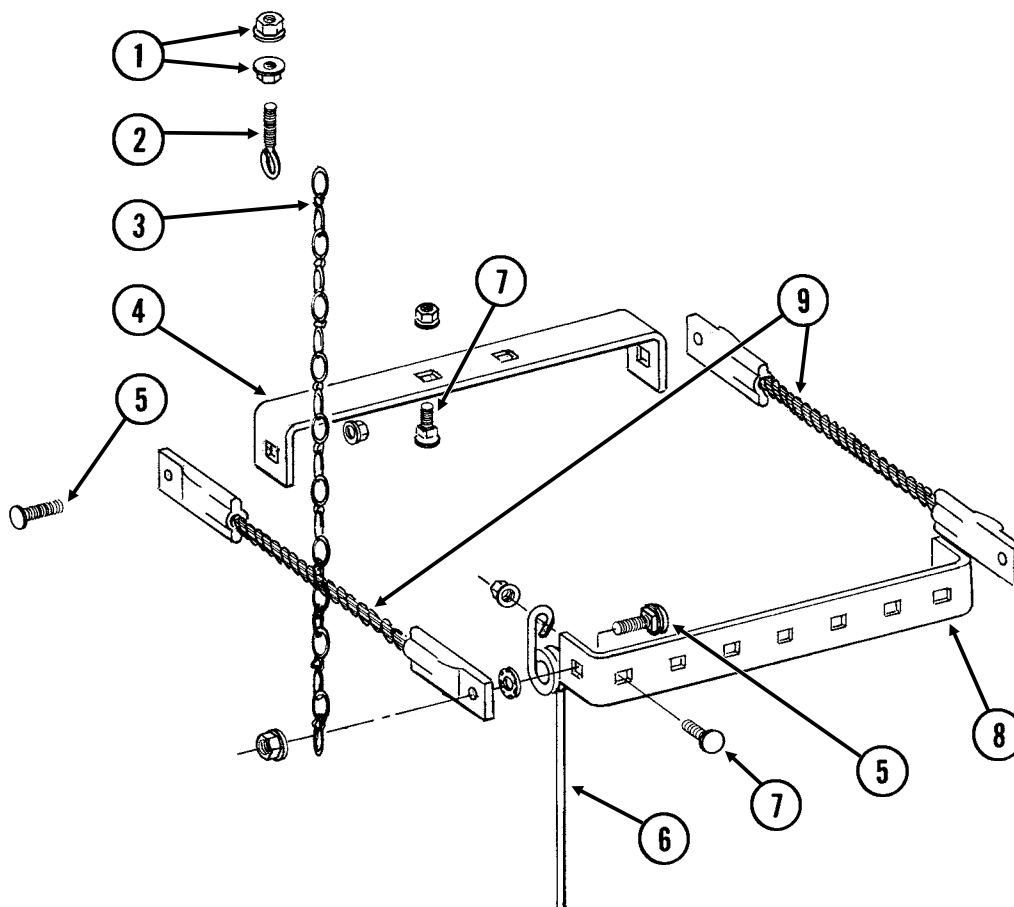
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RUA061/RUA073(RU101mm/RU83m)



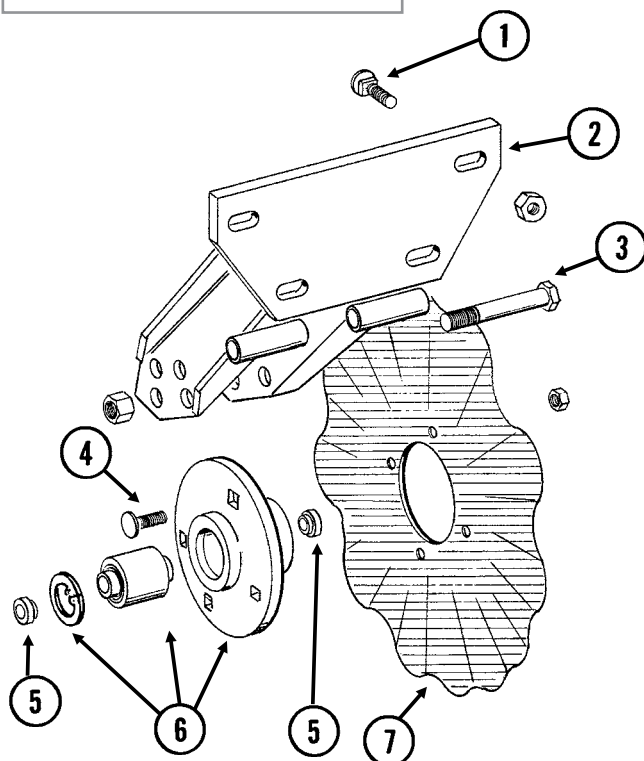
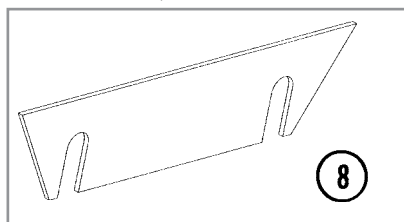
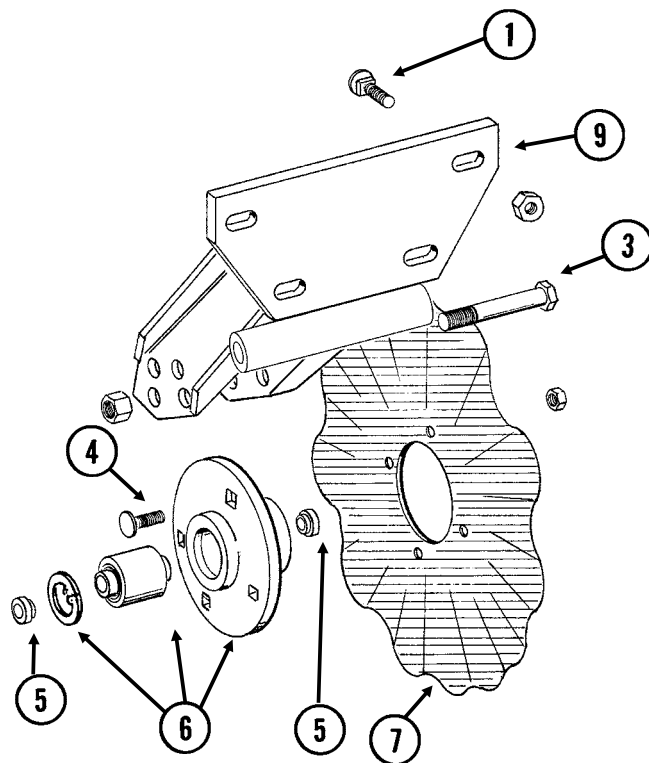
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2423	1	Funnel
2	G11209	1	Wire Hose Clamp, ¾"
3	GD2947	1	Hose, 7/16" x 28"
4	G10523	2	Slotted Pan Head Self-Tapping Screw, No. 10 x ½"
5	GA6907	1	Slope-Compensating Bander W/Hardware (4½" Band Width)
	G10864	1	Uni-Clamp (Included W/GA6907)
	G10757	2	Pan Head Screw, No. 10-32 x 1¼" (Included W/GA6907)
	G10758	2	Hex Nut, No. 10-32 (Included W/GA6907)
6	GD10963	1	U-Bolt, 1½" x 1⅝" 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)



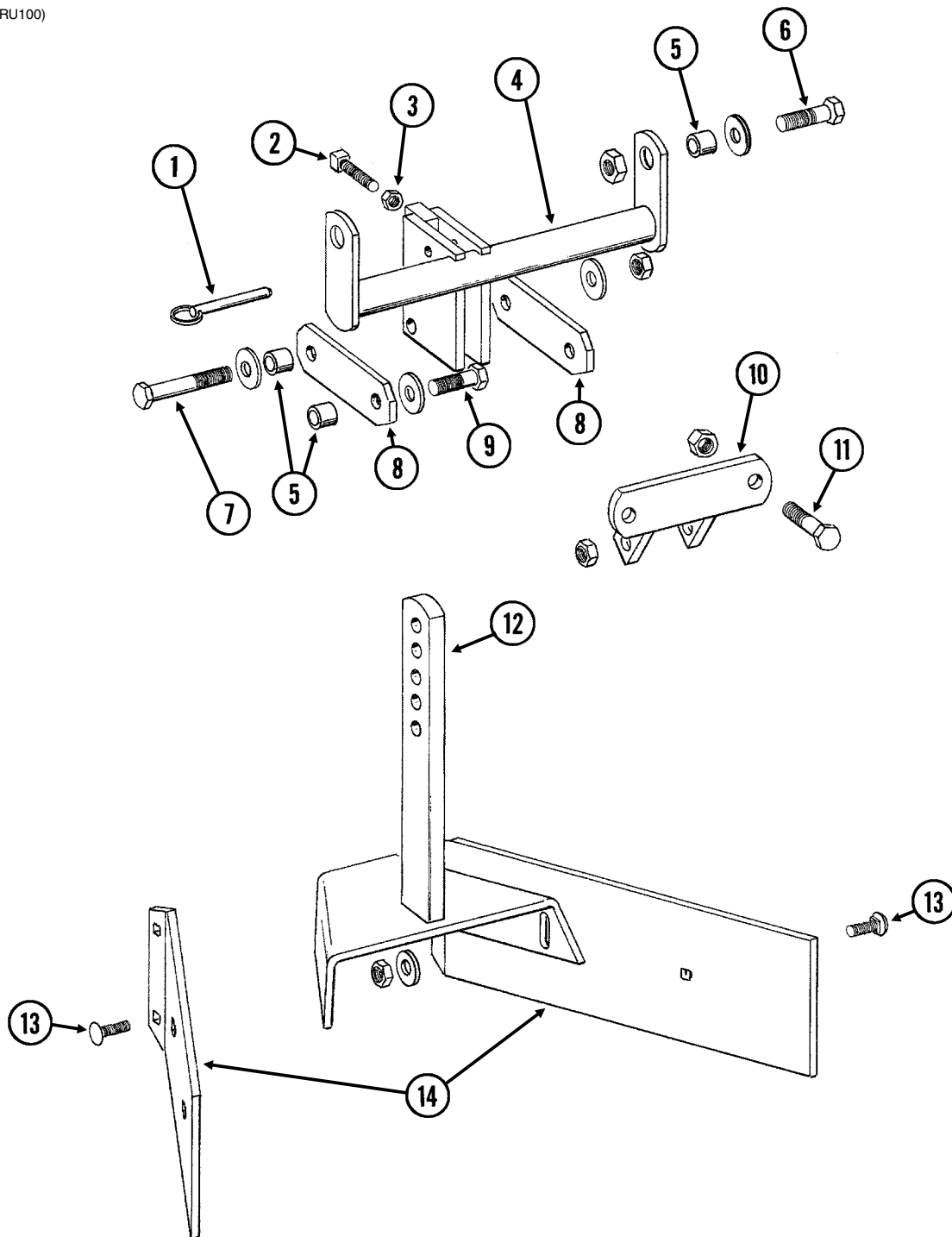
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10621	4	Serrated Flange Nut, 1/4"-20
2	GD2460	2	Eyebolt, 1/4"-20
3	G3305-01	2	Twin Loop Chain, 9 Links
4	GD1143	1	Front Bracket
5	G10305	4	Carriage Bolt, 3/8"-16 x 1"
	G10529	4	External Tooth Lock Washer, 3/8"
	G10622	4	Serrated Flange Nut, 3/8"-16
6	GD1145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

(D14398/RU102c/RU152)

**STYLE A****STYLE B**

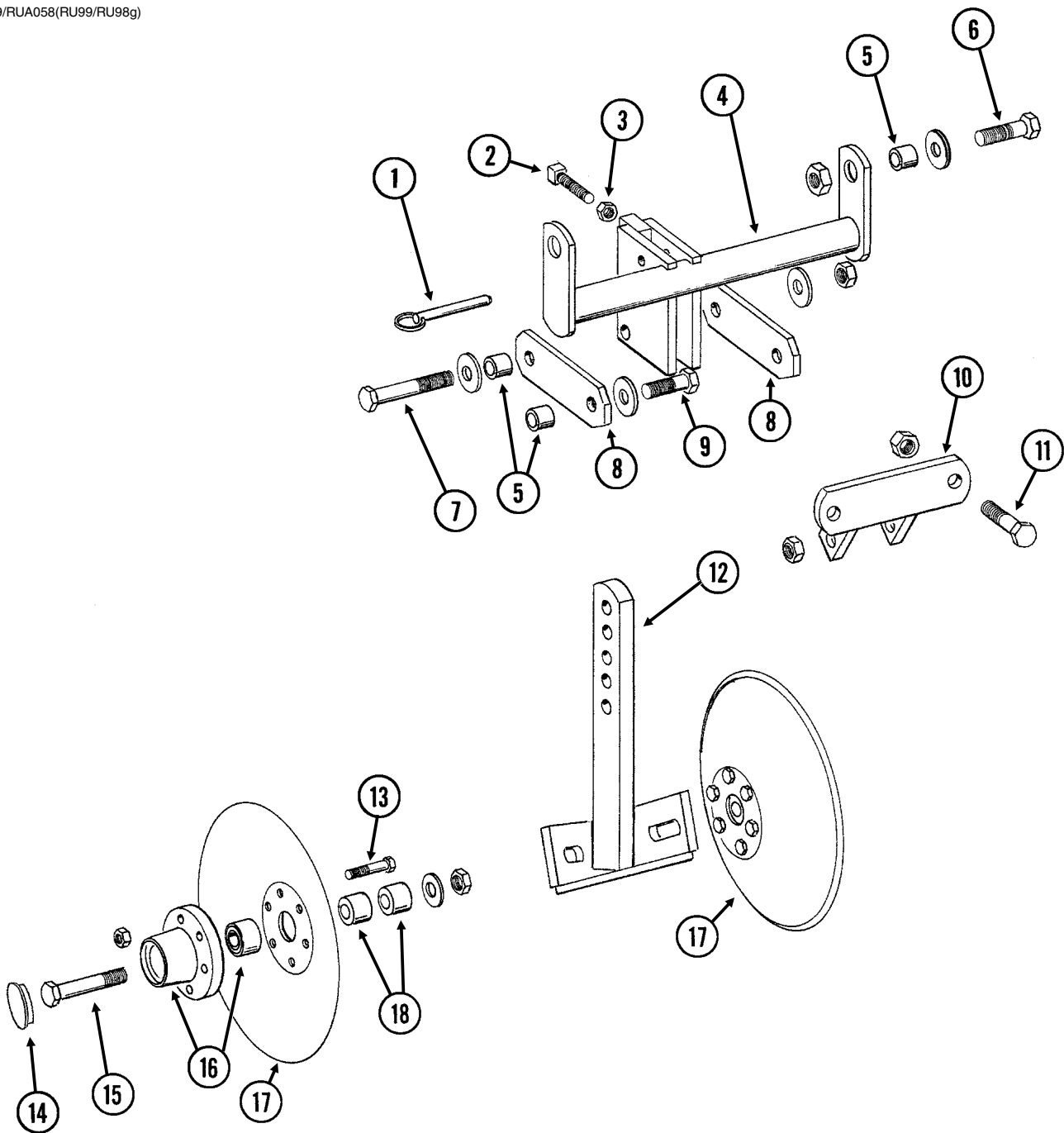
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
2	GA5625	1	Arm (Style A)
3	G10036	1	Hex Head Cap Screw, 5/8"-11 x 4"
	G10107	1	Lock Nut, 5/8"-11
4	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
5	GD11677	2	Adapter
6	GA8641	1	Hub W/Bearing and Retaining Ring
	GA8603	-	Bearing, Double Row (Included W/GA8641)
	GD19292	-	Retaining Ring, 27/16" (Included W/GA8641)
7	GD7803	-	Disc Blade, Fluted, 1", 8 Flutes (Shown)
	GD7804	-	Disc Blade, Bubbled, 1"
	GD9254	-	Disc Blade, Fluted, 3/4", 13 Flutes
8	GD14398	-	Spacer
9	GA11520	1	Arm (Style B)

RUA059/RUA060(RU99/RU100)



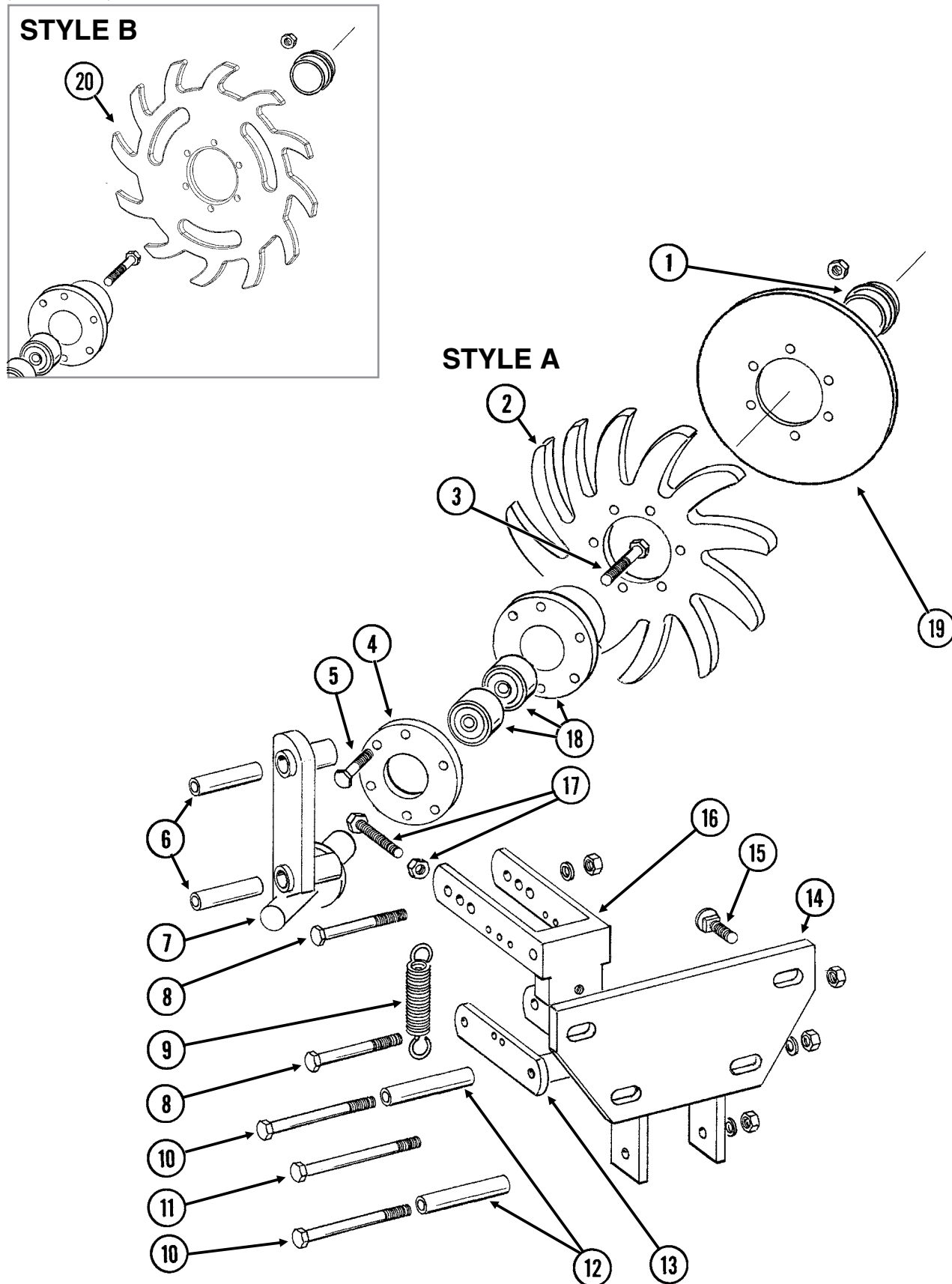
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10536	1	Detent Pin, 1/2" x 2 1/2" Grip
2	G10597	1	Square Head Set Screw, 5/8"-11 x 2 1/4"
3	G10503	1	Hex Jam Nut, 5/8"-11, Grade 2
4	GA5719	1	Mounting Bracket
5	GD7889	6	Bushing, 1" O.D. x 9/16" I.D. x 7/16" Long
6	G10039	2	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
	G11389	2	Flat Washer, 1/2" SAE
	G10111	2	Lock Nut, 1/2"-13
7	G10585	1	Hex Head Cap Screw, 1/2"-13 x 3 1/4"
	G11389	2	Flat Washer, 1/2" SAE
	G10111	1	Lock Nut, 1/2"-13
8	GD7890	2	Link
9	G10017	2	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G11389	2	Flat Washer, 1/2" SAE
	G10111	2	Lock Nut, 1/2"-13
10	GA5715	1	Anchor
11	G10017	2	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10111	2	Lock Nut, 1/2"-13
12	GA5892	1	Leveler
13	G10303	6	Carriage Bolt, 5/16"-18 x 1"
	G11386	4	Flat Washer, 5/16" SAE
	G10109	6	Lock Nut, 5/16"-18, Grade 8
14	GD8266	2	Blade

RUA059/RUA058(RU99/RU98g)



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

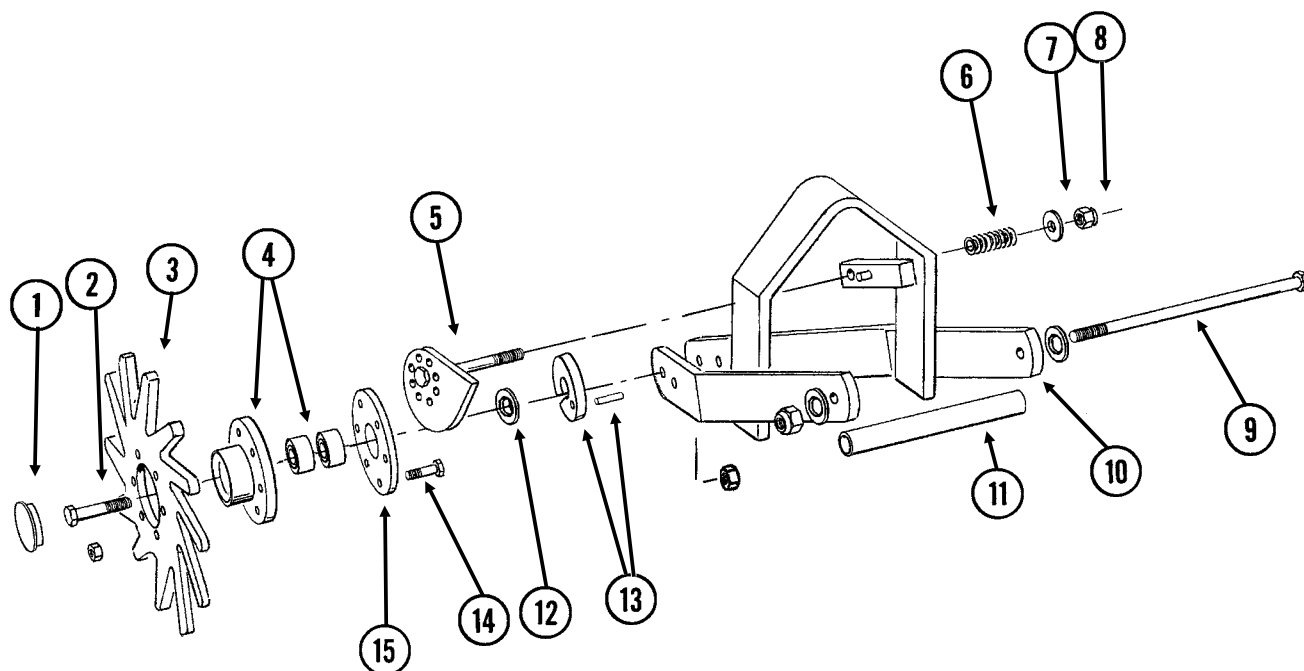
(RU103dd/RU103d)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1132	1	Dust Cap
2	GD10552	1	Wheel, 12 Tine, 3/8" x 12"
3	G10006	1	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
4	GD9724	1	Backing Plate
5	G10133	6	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	6	Lock Nut, 5/16"-18, Grade 8
6	GD9720	2	Spacer, 1/2" x 2 3/16" Long
7	GA6838	1	Wheel Mount
8	G10033	2	Hex Head Cap Screw, 1/2"-13 x 3 1/2"
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
9	GD5857	2	Spring
10	G10045	2	Hex Head Cap Screw, 1/2"-13 x 4 1/2"
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
11	G10348	1	Hex Head Cap Screw, 1/2"-13 x 5" (Lockup Bolt)
	G10111	1	Lock Nut, 1/2"-13
12	GD9715	2	Spacer, 1/2" x 3" Long
13	GA6834	1	Lower Link
14	GA6832	1	Mount
15	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
16	GA6833	1	Upper Link
17	G10371	1	Hex Head Cap Screw, 1/2"-13 x 3", Full Thread
	G10501	1	Hex Jam Nut, 1/2"-13, Grade 2
18	GA5654	1	Hub W/Bearings
	GA2014	-	Bearing
19	GD12534	-	Cover
20	GB0387	1	Wheel, 12 Tine, 3/8" x 12"
A	GA7446	-	Wheel Assembly, 12 Tine, R.H. (Items 2, 4, 5 and 18)
B	GA12236	-	Wheel Assembly, 12 Tine, R.H. (Items 4, 5, 18 and 20)

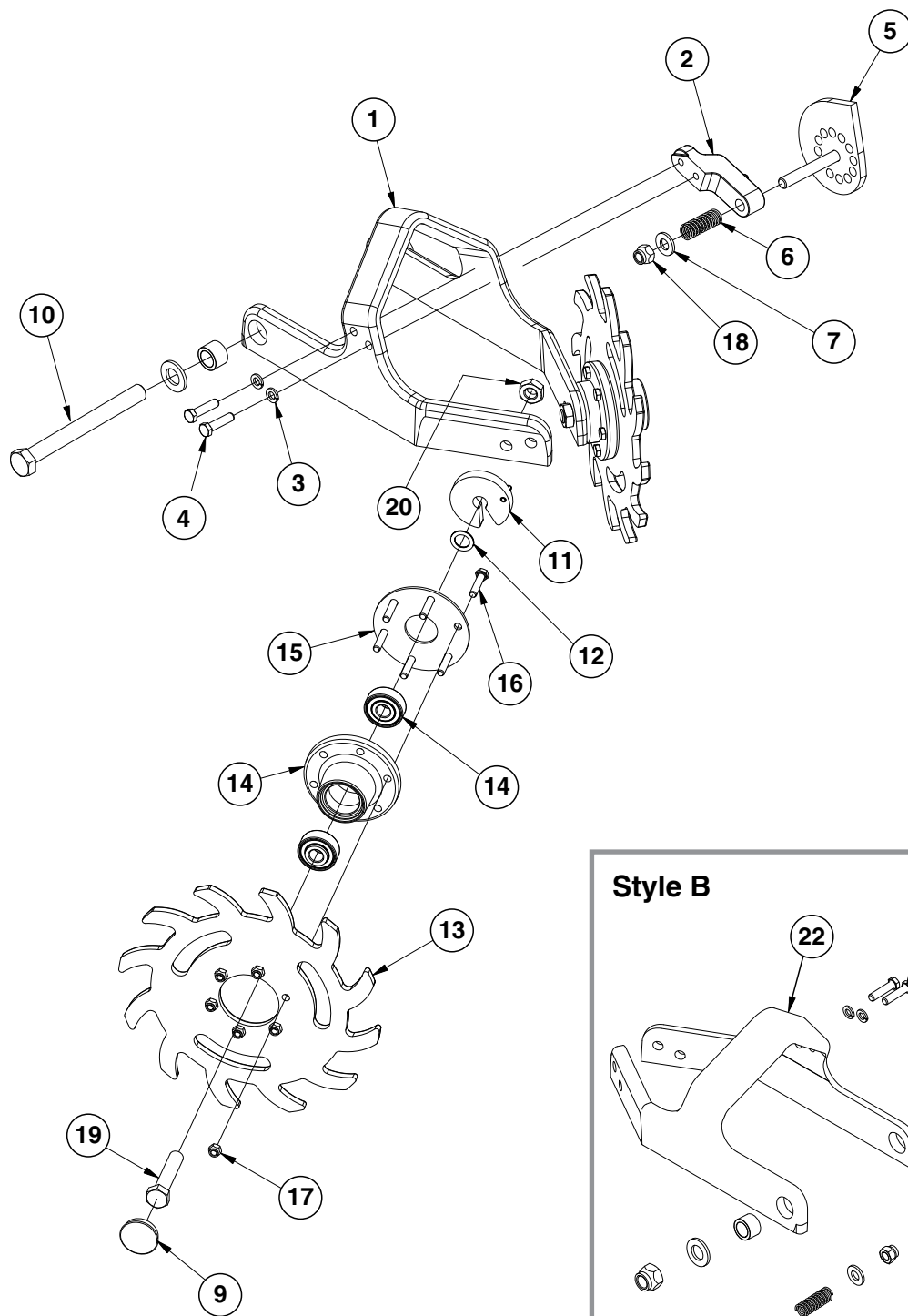
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(RU104uuu/RU153)

STYLE A - Used With Style A Row Unit Mounted No Till Coulter

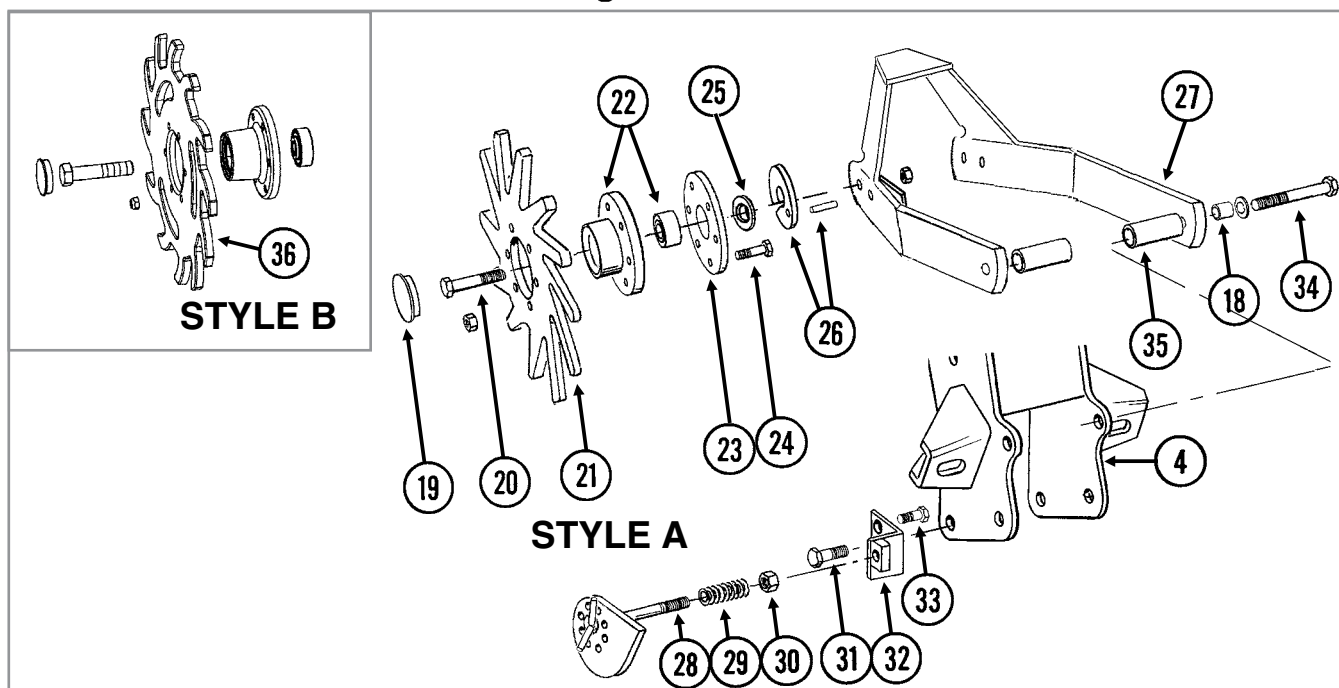
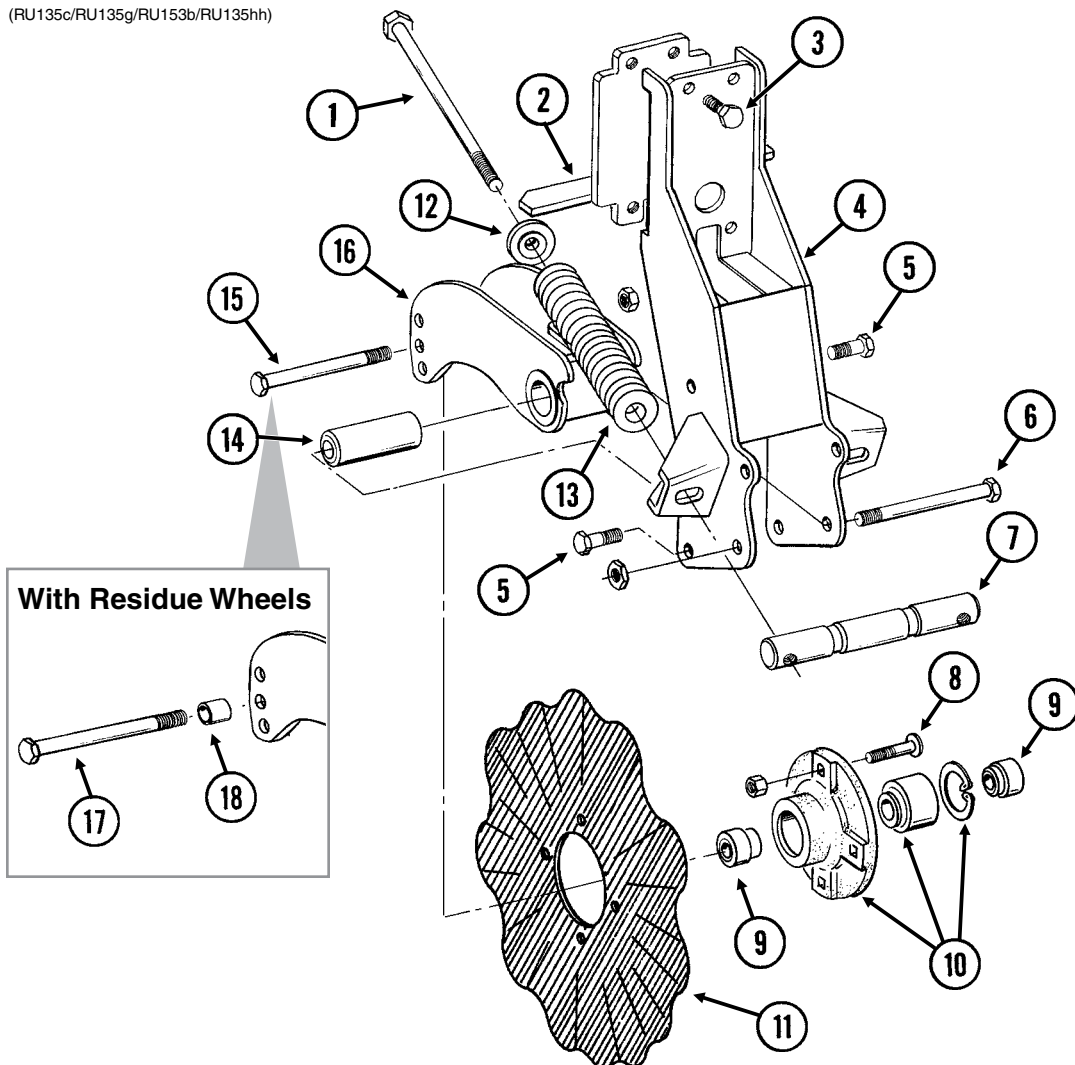
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1132	2	Dust Cap
2	G10010	2	Hex Head Cap Screw, 5/8"-11 x 3"
	G10503	2	Hex Jam Nut, 5/8"-11, Grade 2
3	GD10552	2	Wheel, 12 Tine, 3/8" x 12"
4	GA5654	2	Hub W/Bearings
	GA2014	-	Bearing (Included W/GA5654)
5	GA14251	1	Cam
6	GD10519	1	Spring
7	G11389	1	Flat Washer, 1/2" SAE
8	G10974	1	Lock Nut W/Nylon Insert, 1/2"-13
9	G11098	1	Hex Head Cap Screw, 1/2"-13 x 9 1/2", Grade 8
	G11389	2	Flat Washer, 1/2" SAE
	G10974	1	Lock Nut W/Nylon Insert, 1/2"-13
10	GA7271	1	Mount
11	GD10526	1	Sleeve, 7 1/2"
12	G10213	2	Machine Bushing, 5/8" (.030" Thick)
13	GA8760	2	Weed Guard W/Spring Pin
	G10765	-	Spring Pin, 1/4" x 1" (Included W/GA8760)
14	G10133	12	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	12	Lock Nut, 5/16"-18, Grade 8
15	GD9724	2	Backing Plate
A	GA7446	-	Wheel Assembly, 12 Tine, R.H. (Items 3, 4, 14 and 15) (Shown)
	GA7445	-	Wheel Assembly, 12 Tine, L.H. (Items 3, 4, 14 and 15)

(IP1468)

STYLE B and C - Used With Style A Row Unit Mounted No Till Coulter

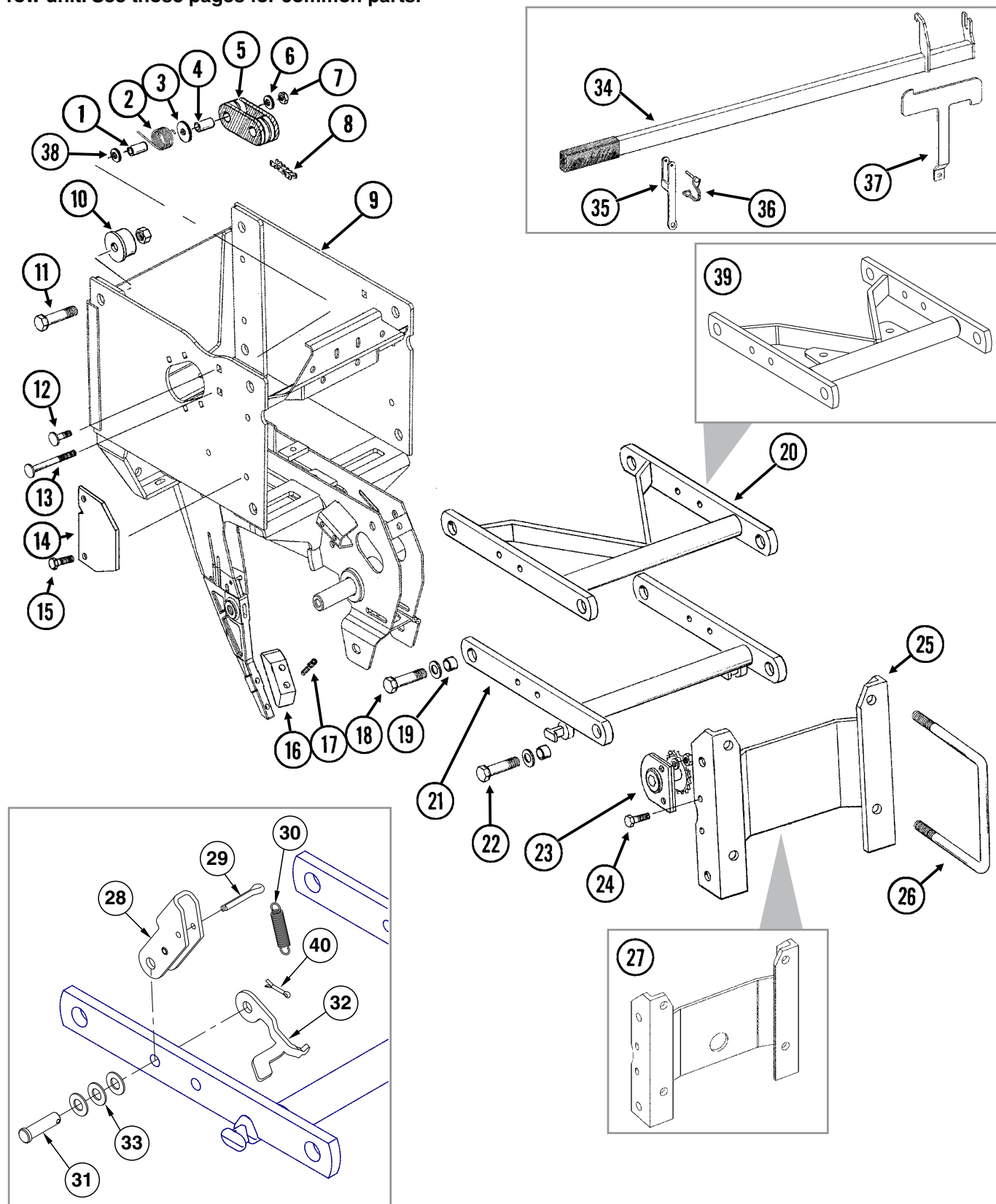
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GB0464	1	Residue Wheel Mount
2	GD26973	1	Cam Locking Pin
3	G10229	2	Lock Washer, 3/8"
4	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
5	GA14251	1	Cam
6	GD10519	1	Spring
7	G11389	1	Flat Washer, 1/2" Plated SAE
8	G10003	2	Hex Head Cap Screw, 3/8"-16 x 1 1/2"
	G10229	2	Lock Washer, 3/8"
9	GA14250	1	Locking Pin
10	G11236	1	Hex Head Cap Screw, 3/4"-10 x 10 1/2"
	G11392	2	Flat Washer, 3/4" SAE
	GB0383	2	Bushing, 1 1/8" O.D. x 25/32" I.D. x 3/4" Long
	G11228	1	Lock Nut, 3/4"-10
11	GA8760	2	Weed Guard W/Spring Pin
	G10765	-	Spring Pin, 1/4" x 1"
12	GD30725	4	Machine Bushing, 5/8" (.030" Thick)
13	GB0387	2	Wheel, 12 Tine, 3/8" x 12"
14	GA5654	2	Hub W/Bearings
	GA2014	-	Bearing (Included W/GA5654)
15	GD9724	2	Backing Plate
16	G10133	12	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
17	G10109	12	Lock Nut, 5/16"-18, Grade 8
18	G10974	1	Lock Nut W/Nylon Insert, 1/2"-13
19	G10010	2	Hex Head Cap Screw, 5/8"-11 x 3"
20	G10503	2	Hex Jam Nut, 5/8"-11, Grade 2
21	GD1132	2	Dust Cap
22	GB0464	1	Residue Wheel Mount
A	GA12235	-	L.H. Residue Wheel (Items 13-17)
B	GA12236	-	R.H. Residue Wheel (Items 13-17)
C	G1K531	-	Residue Wheel Mount Kit (Items 1 and 8-10)

(RU135c/RU135g/RU153b/RU135hh)



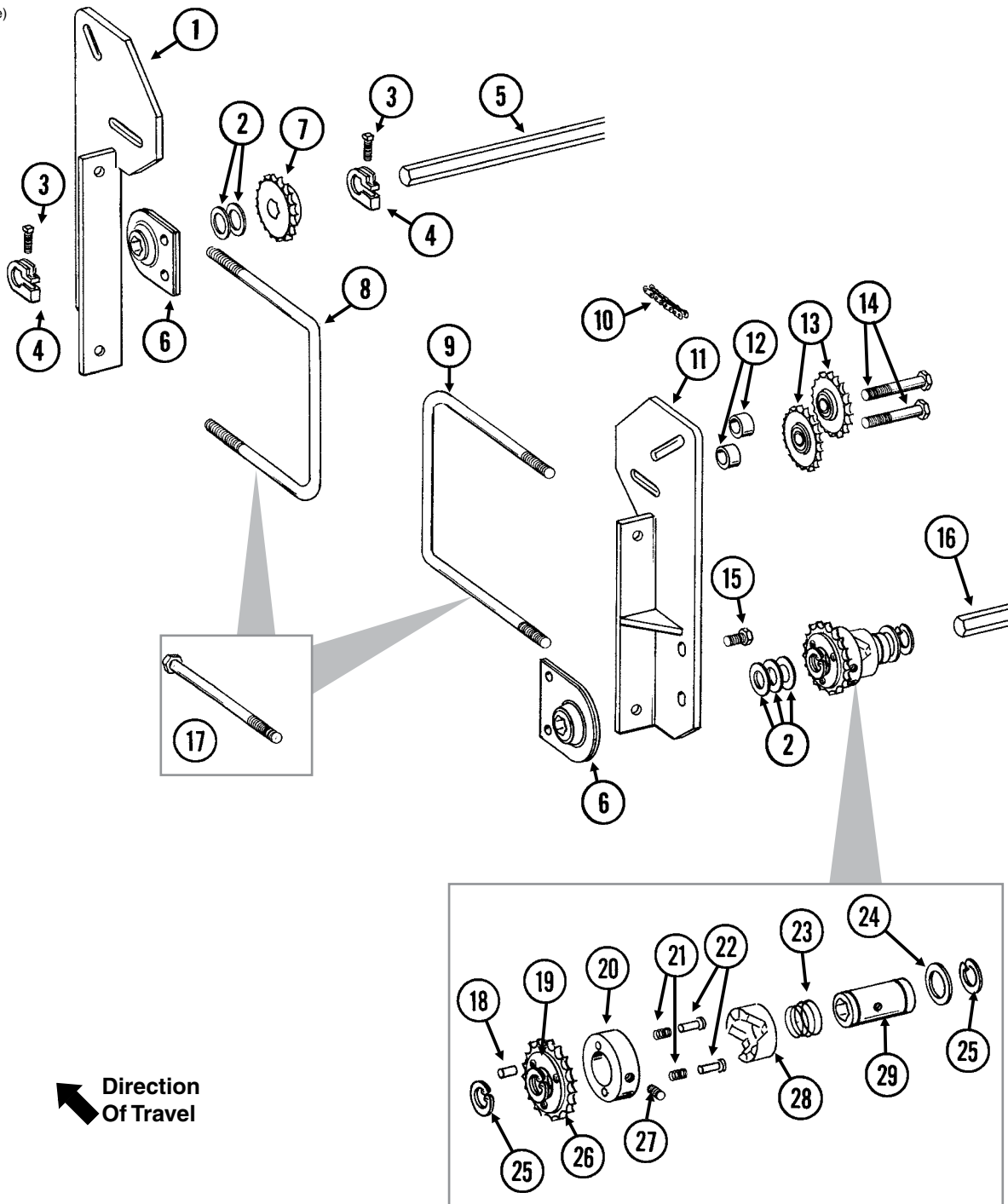
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11010	2	Hex Head Cap Screw, 3/4"-10 x 12"
2	GA9844	1	Plate W/Angle
3	G10039	4	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
4	GA9131	1	Coulter Frame
5	G10007	4	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
	G10107	4	Lock Nut, 5/8"-11
6	G10400	1	Hex Head Cap Screw, 3/4"-10 x 6 1/2"
	G10112	1	Lock Nut, 3/4"-10
7	GD12826	1	Spring Anchor Bar
8	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
9	GD12827	2	Adapter
10	GA8641	1	Hub W/Bearing and Retaining Ring
	GA8603	1	Bearing, Double Row (Included W/GA8641)
	GD19292	1	Retaining Ring, 2 7/16" (Included W/GA8641)
11	GD7803	1	Disc Blade, Fluted, 1", 8 Flutes (Shown)
	GD7804	-	Disc Blade, Bubbled, 1"
	GD9254	-	Disc Blade, Fluted, 3/4", 13 Flutes
12	GB0213	2	Spring Seat
13	GD12817	2	Compression Spring
14	GD12829	1	Sleeve
15	G10046	1	Hex Head Cap Screw, 5/8"-11 x 5"
	G10107	1	Lock Nut, 5/8"-11
16	GA9845	1	Coulter Arm W/Grease Fitting
	G10643	-	Grease Fitting, 45°, 1/4"-28 (Included W/GA9845)
17	G10011	1	Hex Head Cap Screw, 5/8"-11 x 5 1/2"
	G10107	1	Lock Nut, 5/8"-11
18	GB0218	3	Bushing, 2 1/32" I.D. x 7/8" O.D. x 1 9/32" Long
19	GD1132	2	Dust Cap
20	G10010	2	Hex Head Cap Screw, 5/8"-11 x 3"
	G10503	2	Hex Jam Nut, 5/8"-11, Grade 2
21	GD10552	2	Wheel, 12 Tine, 3/8" x 12"
22	GA5654	2	Hub W/Bearings
	GA2014	-	Bearing (Included W/GA2014)
23	GD9724	2	Backing Plate
24	G10133	12	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	12	Lock Nut, 5/16"-18, Grade 8
25	G10213	2	Machine Bushing, 5/8" (.030" Thick)
26	GA9862	2	Weed Guard W/Spring Pin
	G10765	-	Spring Pin, 1/4" x 1" (Included W/GA9862)
27	GA9865	1	Mount
28	GA9861	1	Cam
29	GD10519	1	Spring
30	G10974	1	Lock Nut W/Nylon Insert, 1/2"-13
31	G10005	1	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	G10107	4	Lock Nut, 5/8"-11
32	GA15312	1	Cam Support
33	G10014	1	Hex Head Cap Screw, 1/2"-13 x 1"
	G10102	1	Hex Nut, 1/2"-13
34	G10011	2	Hex Head Cap Screw, 5/8"-11 x 5 1/2"
	G11391	2	Flat Washer, 5/8" SAE
	G10730	2	Lock Nut W/Nylon Insert, 5/8"-11
35	GD14170	2	Sleeve, 3"
36	GB0387	2	Wheel, 12 Tine, 3/8" x 12"
A	GA7446	-	Wheel Assembly, 12 Tine, R.H. (Items 21-24) (Shown)
	GA7445	-	Wheel Assembly, 12 Tine, L.H. (Items 21-24)
B	GA12236	-	Wheel Assembly, 12 Tine, R.H. (Items 22, 23, 24 and 36) (Shown)
	GA12235	-	Wheel Assembly, 12 Tine, L.H. (Items 22, 23, 24 and 36)

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.



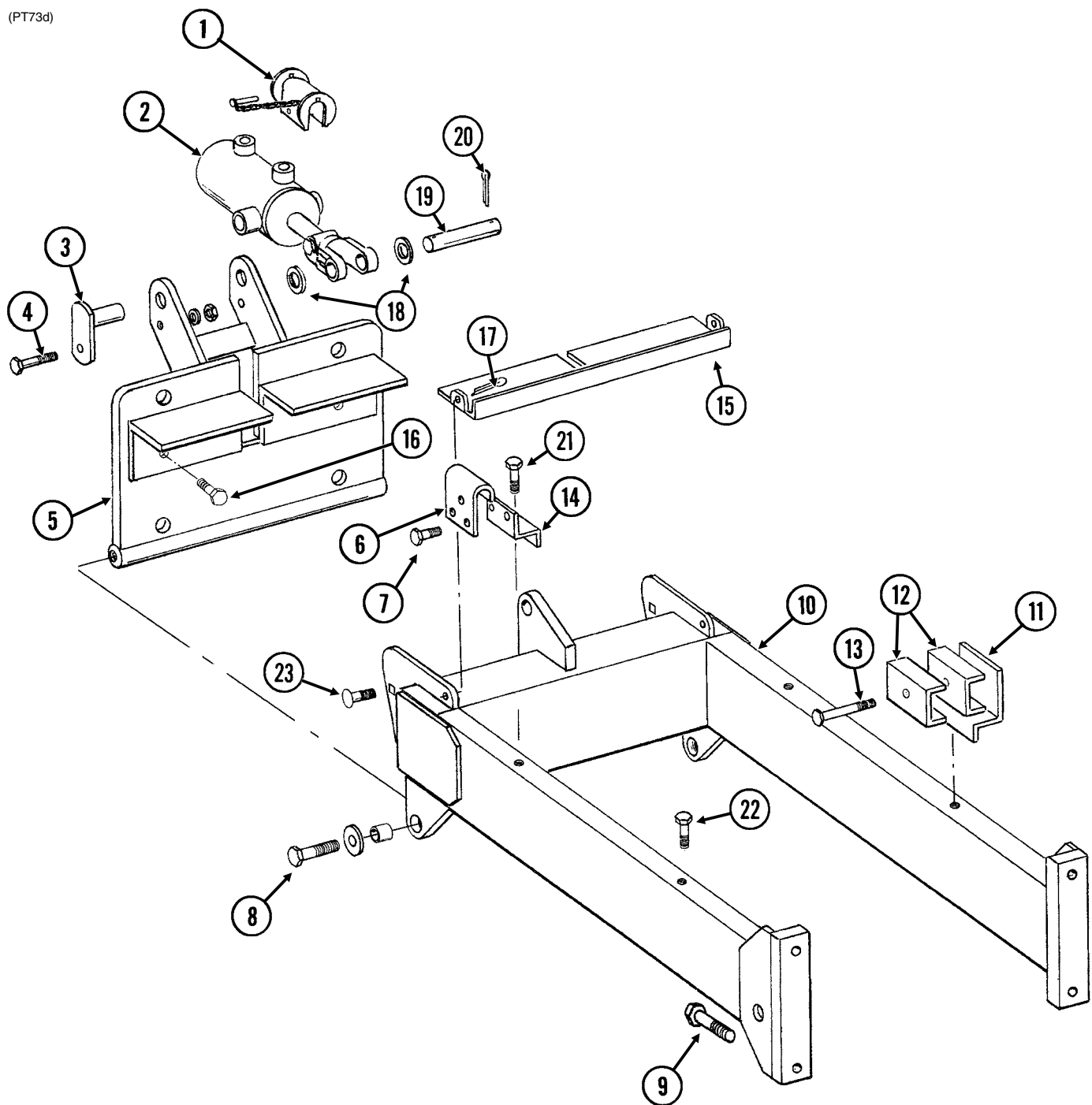
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1026	1	Sleeve, 1 $\frac{3}{16}$ " Long
2	GD11218	1	Spring
3	G10201	1	Special Washer, $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " O.D.
4	GD8893-01	1	Sleeve, 1 $\frac{3}{8}$ " Long
5	GB0968	1	Idler
6	G11387	1	Flat Washer, $\frac{3}{8}$ " SAE
7	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
8	G3303-96	1	Chain, No. 41, 96 Pitch Including Connector Link
	GR0196	1	Connector Link, No. 41
9	GA10161	-	Push Row Unit Shank
10	GB0314	2	Hopper Mount
11	G10751	2	Hex Head Cap Screw, $\frac{5}{8}$ "-18 x 1 $\frac{3}{4}$ "
	G11514	2	Lock Nut, $\frac{5}{8}$ "-18
12	G10599	1	Carriage Bolt, $\frac{3}{8}$ "-16 x 1 $\frac{1}{4}$ "
	G10101	1	Hex Nut, $\frac{3}{8}$ "-16
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
13	G10307	1	Carriage Bolt, $\frac{3}{8}$ "-16 x 3 $\frac{1}{2}$ "
14	GD10867	2	Stop
15	G10004	4	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1 $\frac{1}{4}$ "
	G10108	4	Lock Nut, $\frac{3}{8}$ "-16
16	GB0301	1	Seed Tube Guard/Inner Scraper
17	G10912	2	Hex Socket Head Cap Screw, $\frac{5}{16}$ "-18 x 1", Grade 8
18	G10751	4	Hex Head Cap Screw, $\frac{5}{8}$ "-18 x 1 $\frac{3}{4}$ "
	G11391	4	Flat Washer, $\frac{5}{8}$ " SAE
	G11514	4	Lock Nut, $\frac{5}{8}$ "-18
19	GB0218	8	Bushing, 2 $\frac{1}{32}$ " I.D. x $\frac{7}{8}$ " O.D. x 1 $\frac{9}{32}$ " Long
20	GA8930	-	Upper Arm
21	GA5787	1	Lower Arm
22	G10732	4	Hex Head Cap Screw, $\frac{5}{8}$ "-18 x 2"
	G11391	4	Flat Washer, $\frac{5}{8}$ " SAE
	G11514	4	Lock Nut, $\frac{5}{8}$ "-18
23	GA1720	1	Bearing/Sprocket, $\frac{7}{8}$ " Hex Bore
24	G10004	2	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1 $\frac{1}{4}$ "
	G11091	2	Serrated Flange Nut, $\frac{3}{8}$ "-16
25	GA5786	1	Mounting Plate
26	GD1114	2	U-Bolt, 7" x 7" x $\frac{5}{8}$ "-11
	GD1113	-	U-Bolt, 5" x 7" x $\frac{5}{8}$ "-11
	G10230	4	Lock Washer, $\frac{5}{8}$ "
	G10104	4	Hex Nut, $\frac{5}{8}$ "-11
27	GA11971	-	Mounting Plate
28	GD11264	1	Lockup
	G10718		Spring Pin, $\frac{5}{16}$ " x 1 $\frac{1}{8}$ "
29	G10463	1	Cotter Pin, $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "
30	GD25569	1	Spring
31	G10284	1	Clevis Pin, $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "
32	GD25568	1	Spring Mount Tab, L.H.
	GD29459	1	Spring Mount Tab, R.H.
33	G10216	3	Washer, $\frac{1}{2}$ " USS
34	G10451	1	Cotter Pin, $\frac{1}{8}$ " x 1"
35	GD18073	1	Bracket (Lift Lever)
36	GD9695	1	Wire Lock Pin, $\frac{1}{4}$ " x 1 $\frac{3}{4}$ "
37	GD18074	1	Mount
38	G11387	1	Flat Washer, $\frac{3}{8}$ " SAE
39	GA11969	-	Upper Arm
A	G1K534	-	Push Unit Lock-Up Kit, Items 28-34 (includes GD11648 - Push Unit Stop)
B	G1K535	-	Push Unit Spring Lock-Up Kit, Items 28-34

PTD093(PT75e)



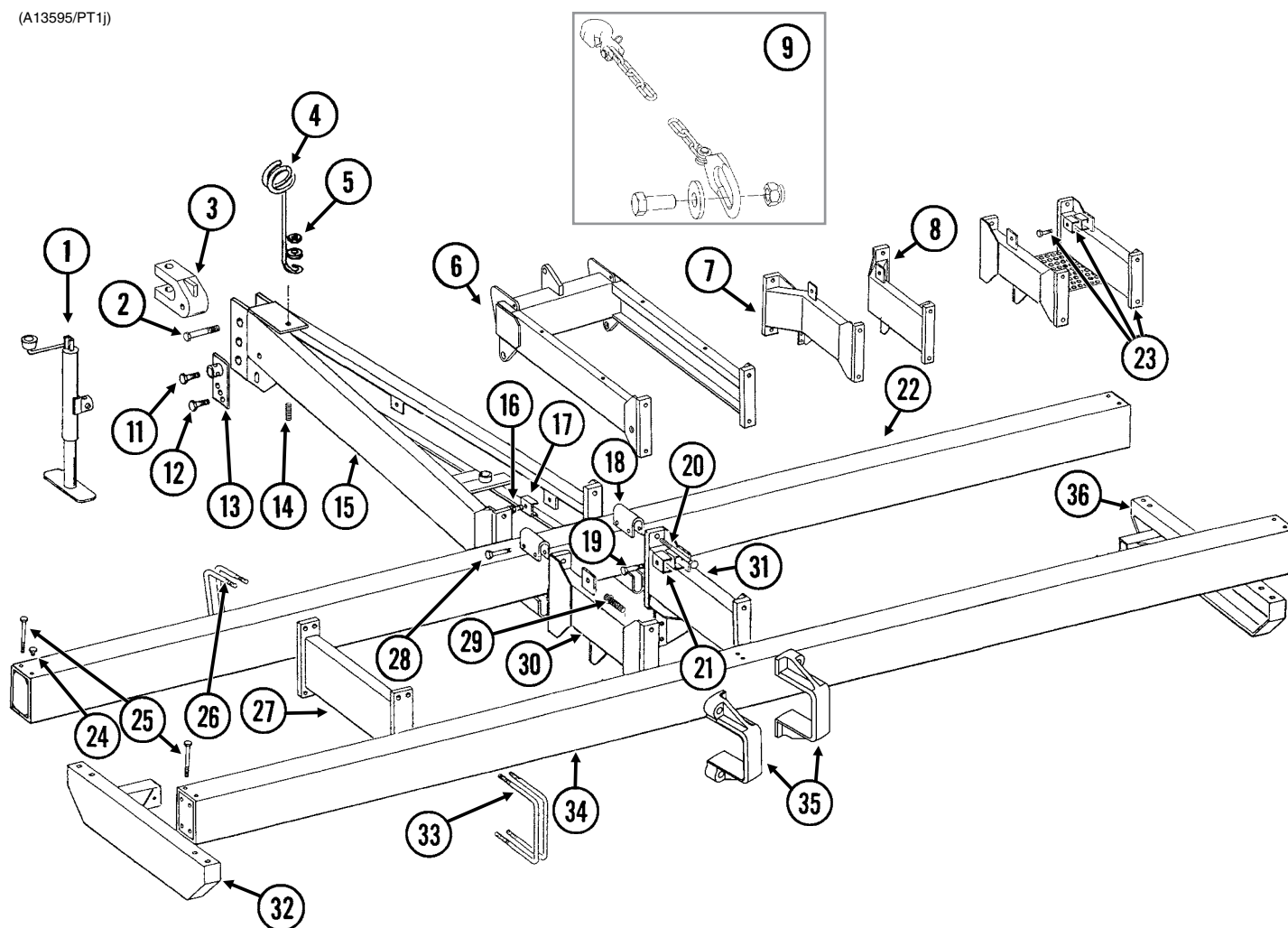
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA8717	1	Front Mount
2	G10233	5	Machine Bushing, 1", 10 Gauge
3	G10130	2	Square Head Machine Bolt, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ "
	G10923	2	Flange Nut, $\frac{5}{16}$ "-18, No Serration
4	GD11045	2	Lock Clamp
5	GD0914-84	1	Hex Shaft, $\frac{7}{8}$ " x 84" (No Holes), 4 Row 30"
	GD0914-105	-	Hex Shaft, $\frac{7}{8}$ " x 105" (No Holes), 4 Row 36"/38"
	GD0914-144	-	Hex Shaft, $\frac{7}{8}$ " x 144" (No Holes), 6 Row 30"
	GD0914-180	-	Hex Shaft, $\frac{7}{8}$ " x 180" (No Holes), 6 Row 36"/38"
	GD0914-205	-	Hex Shaft, $\frac{7}{8}$ " x 205" (No Holes), 8 Row 30"
6	GA2180	2	Hanger Bearing, $\frac{7}{8}$ " Hex Bore
7	GA5107	1	Sprocket, 19 Tooth
8	GD11721	1	U-Bolt, 5" x 7" x $\frac{1}{2}$ "-13 (Double Frame Planters)
	G10228	2	Lock Washer, $\frac{1}{2}$ "
	G10102	2	Hex Nut, $\frac{1}{2}$ "-13
9	GD7145	1	U-Bolt, 7" x 7" x $\frac{1}{2}$ "-13 (Double Frame Planters)
	G10228	2	Lock Washer, $\frac{1}{2}$ "
	G10102	2	Hex Nut, $\frac{1}{2}$ "-13
10	G3310-138	1	Chain, No. 40, 138 Pitch Including Connector Link (Single Frame Planters)
	G3310-252	-	Chain, No. 40, 252 Pitch Including Connector Link (Double Frame Planters)
	GR0912	-	Connector Link, No. 40
11	GA8716	1	Rear Mount
12	GD9229	4	Spacer, $1\frac{1}{4}$ " O.D. x $\frac{1}{2}$ " Long
13	GA7154	4	Sprocket W/Bearing, 18 Tooth
14	G10581	4	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $2\frac{1}{4}$ "
	G10168	4	Machine Bushing, $\frac{1}{2}$ ", 7 Gauge
	G10228	4	Lock Washer, $\frac{1}{2}$ "
	G10102	4	Hex Nut, $\frac{1}{2}$ "-13
15	G10001	-	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1"
	G10229	-	Lock Washer, $\frac{3}{8}$ "
	G10101	-	Hex Nut, $\frac{3}{8}$ "-16
16	---	-	See "Driveline, 4 Row 30"/36"/38"" on page P55 See "Driveline, 6 Row 30"/36"/38" and 8 Row 30"" on page P56
17	G10909	2	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x 9" (Single Frame Planters)
	G10228	2	Lock Washer, $\frac{1}{2}$ "
	G10102	2	Hex Nut, $\frac{1}{2}$ "-13
18	G10968	1	Spring Pin, $\frac{5}{32}$ " x $\frac{7}{16}$ "
19	GR1406	1	Bushing
20	GR1405	1	Lock Collar
21	GR1413	2	Spring
22	GR1410	2	Pin
23	GR1408	1	Compression Spring
24	GR1411	1	Shim
25	G10496	2	External Inverted Snap Ring, $1\frac{1}{2}$ "
26	GR1412	1	Sprocket, 19 Tooth
27	G10535	1	Hex Socket Set Screw, $\frac{3}{8}$ "-16 x $\frac{3}{4}$ "
28	GR1409	1	Knurled Collar
29	GR1407	1	Drive Shaft
A	GA8092	-	Clutch Sprocket Assembly, 19 Tooth (Items 18-29)
B	G1K269	-	Lock Clamp Kit (Items 3 and 4)
C	G1K331	-	Clutch Sprocket Kit (Items 18, 19 and 26)

(PT73d)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA9872	1	Lockup W/Pin
2	---	-	See "Interplant Lift Cylinder" on page P70
3	GA6761	2	Pin
4	G10581	2	Hex Head Cap Screw, 1/2"-13 x 2 1/4"
	G11389	2	Flat Washer, 1/2" SAE
	G10111	2	Lock Nut, 1/2"-13
5	GA8487	1	Hinge
6	GD7944	1	Mount
7	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
8	G10645	2	Hex Head Cap Screw, 1"-8 x 3", Grade 8
	G11394	2	Flat Washer, 1" SAE
	GD11535	2	Bushing, 1 1/2" O.D.
9	---	-	See "Hitch and Frame Assembly/Safety Chain" on page P47
10	GA8488	1	Hitch Extension W/Grease Fittings, 4 Row 30", 6 Row 30" and 8 Row 30"
	GA8656	-	Hitch Extension W/Grease Fittings, 4 Row 36"/38" and 6 Row 36"/38"
	G10640	-	Grease Fitting, 1/4"-28 (Included W/GA8488 or GA8656)
11	GD11657	2	Mount
12	GD6027	4	Hose Clamp, 3/4" x 2 1/2" x 2 1/2"
13	G10325	2	Hex Head Cap Screw, 3/8"-16 x 2 3/4"
	G10108	2	Lock Nut, 3/8"-16
14	GD11662	1	Mounting Bracket
15	GA8676	1	Shield
16	G10428	2	Hex Head Cap Screw, 5/8"-11 x 3/4"
17	G10451	2	Cotter Pin, 1/8" x 1"
18	G11396	2	Flat Washer, 1 1/4" SAE
19	GD11559	1	Pin, 1 1/4" x 4 7/8"
20	G10460	2	Cotter Pin, 1/4" x 2"
21	G10001	3	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	3	Lock Washer, 3/8"
	G11387	3	Flat Washer, 3/8" SAE
22	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
23	G10574	2	Carriage Bolt, 1/2"-13 x 1 1/4"
	G11389	2	Flat Washer, 1/2" SAE
	G10111	2	Lock Nut, 1/2"-13

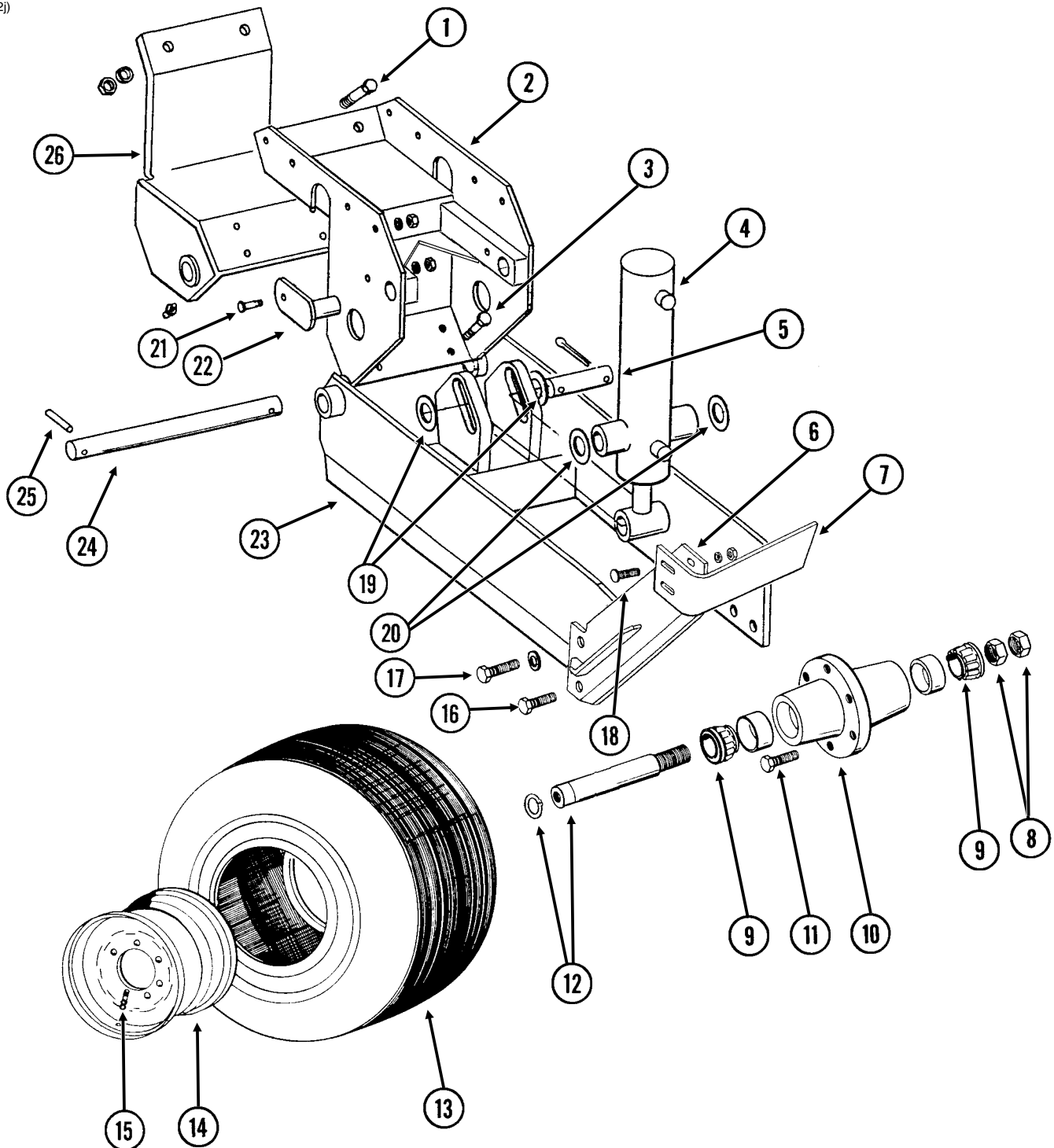
(A13595/PT1j)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G4100-02	1	Jack Assembly
	GR0255	-	Repair Kit (Chain and Pin)
2	G10169	1	Hex Head Cap Screw, 1 1/4"-7 x 6"
	G10157	1	Lock Nut, 1 1/4"-7
3	GB0156	1	Clevis
4	GD7140	1	Hose Holder
5	G10348	1	Hex Head Cap Screw, 1/2"-13 x 5"
	G11389	1	Flat Washer, 1/2" SAE
	G10228	1	Lock Washer, 1/2"
	G10102	1	Hex Nut, 1/2"-13
6	---	-	See "Interplant Self-Leveling Hitch Extension" on page P45
7	GA9429	-	Center Extension, L.H., Offset, 24"
8	GA9428	-	Center Extension, R.H., Offset, 24"
9	G9566X	1	3/8" Transport Safety Chain Package, Includes: (1) 3/8" Safety Chain W/Hook, (1) Hex Head Cap Screw, (1) Lock Nut, (1) Washer, (1) Instruction Sheet
10	---	-	---
11	G10005	1	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	G10107	1	Lock Nut, 5/8"-11

ITEM	PART NO.	QTY.	DESCRIPTION
12	G10017	1	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G11389	1	Washer, 1/2" SAE
	G10111	1	Lock Nut, 1/2"-13
13	GA7909	1	Jack Adjustment Bracket
14	GD5888	1	Spring
15	GA8670	1	Hitch
16	G10048	2	Hex Head Cap Screw, 3/8"-16 x 2"
	G10108	2	Lock Nut, 3/8"-16
17	GD5875	2	Hose Clamp
18	GA5197	-	Spacer
19	G10048	-	Hex Head Cap Screw, 3/8"-16 x 2"
	G10108	-	Lock Nut, 3/8"-16
20	G10993	4	Hex Head Cap Screw, 1"-8 x 8 1/2", Grade 8
	G10647	4	Hex Nut, 1"-8, Grade 8
21	GD6027	-	Hose Clamp, 3/4" x 2 1/2" x 2 1/2"
22	A8011	1	Double Frame Toolbar, 7" x 5" x 120", 4 Row 30" (Non-Stock Item)
	A8012	-	Double Frame Toolbar, 7" x 5" x 144", 4 Row 36"/38" (Non-Stock Item)
	A8013	-	Double Frame Toolbar, 7" x 5" x 180", 6 Row 30" (Non-Stock Item)
	A8014	-	Double Frame Toolbar, 7" x 5" x 220", 6 Row 36"/38" (Non-Stock Item)
	A8015	-	Double Frame Toolbar, 7" x 5" x 240", 8 Row 30" (Non-Stock Item)
23	GA9007	-	Hitch Extension W/Hose Clamps and Hardware
	GD6027	-	Hose Clamp, 3/4" x 2 1/2" x 2 1/2" (Included W/GA9007)
	G10048	-	Hex Head Cap Screw, 3/8"-16 x 2" (Included W/GA9007)
	G10108	-	Lock Nut, 3/8"-16 (Included W/GA9007)
24	G10903	-	Cap Plug
25	G10895	8	Hex Head Cap Screw, 3/4"-10 x 8 1/2"
	G10112	8	Lock Nut, 3/4"-10
26	GD1113	-	U-Bolt, 5" x 7" x 5/8"-11
	G10230	-	Lock Washer, 5/8"
	G10104	-	Hex Nut, 5/8"-11
27	GA4265	-	Straight Extension
28	G10061	4	Hex Head Cap Screw, 3/8"-16 x 3 1/2"
	G11387	4	Flat Washer, 3/8" SAE
	G10108	4	Lock Nut, 3/8"-16
29	G11085	4	Flanged Cap Screw, 12 Point, 1"-14 x 3"
30	GA9427	-	Hitch/Center Extension, L.H., Straight, 24"
31	GA9426	-	Hitch/Center Extension, R.H., Straight, 24"
32	GA9439	-	End Extension, L.H.
33	GD1114	-	U-Bolt, 7" x 7" x 5/8"-11
	G10230	-	Lock Washer, 5/8"
	G10104	-	Hex Nut, 5/8"-11
34	A8016	1	Toolbar, 7" x 7" x 120", 4 Row 30" (Non-Stock Item)
	A8017	-	Toolbar, 7" x 7" x 144", 4 Row 36"/38" (Non-Stock Item)
	A8018	-	Toolbar, 7" x 7" x 180", 6 Row 30" (Non-Stock Item)
	A8019	-	Toolbar, 7" x 7" x 220", 6 Row 36"/38" (Non-Stock Item)
	A8020	-	Toolbar, 7" x 7" x 240", 8 Row 30" (Non-Stock Item)
35	GD29221	2	Hitch Clamp
36	GA9438	-	End Extension, R.H.

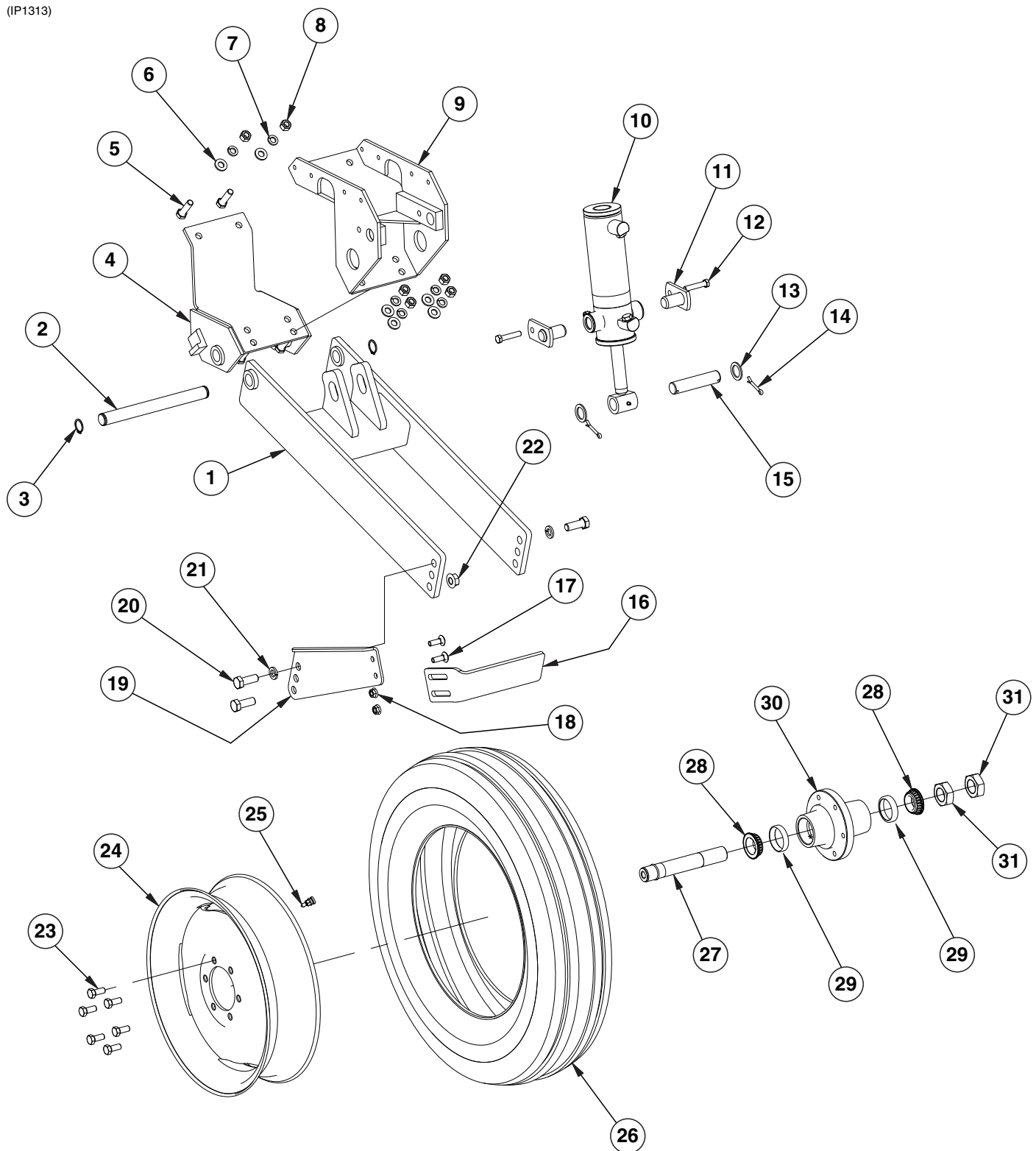
(PT2)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10009 G10230 G10104	2 2 2	Hex Head Cap Screw, 5/8"-11 x 2 1/2" Lock Washer, 5/8" Hex Nut, 5/8"-11
2	GA5122	1	Wheel Tower Clamp
3	G10008 G11391 G10230 G10104	4 4 4 4	Hex Head Cap Screw, 5/8"-11 x 2" Flat Washer, 5/8" SAE Lock Washer, 5/8" Hex Nut, 5/8"-11
4	---	-	See "Master Lift Cylinder" on page P68 See "Transport and Ground Drive Wheel Assembly (2012 Production and on)" on page P51 See "Lift Assist Cylinder, 6 Row 30"/36"/38" and 8 Row 30"" on page P70
5	GD5841 G10460	1 2	Pin, 1 1/4" x 5 5/8" Cotter Pin, 1/4" x 2"
6	GA7376	1	Scraper Mount
7	GD12543	1	Scraper
8	G11081	2	Hex Jam Nut, 1 1/2"-12, Grade 2
9	GA0895	2	Bearing
10	GA2148 GR0434	1 -	Hub W/Cups, 6 Bolt Cup (Included W/GA2148)
11	GR0270	6	Lug Bolt, 9/16"-18
12	GA2558 GD11490	1 -	Spindle W/Round External Retaining Ring, 9 1/2" Round External Retaining Ring (Included W/GA2558)
13	GD13401	-	Tire, 7.50" x 20", 8 Ply, Tubeless W/O Center Rib (Specify Brand*)
14	GA14413	1	Rim, 5.50" x 20"
15	GA7434	1	Valve Stem
16	G10026 G10231 G10105	2 2 2	Hex Head Cap Screw, 3/4"-10 x 1 1/2" Lock Washer, 3/4" Hex Nut, 3/4"-10
17	G10026 G10231 G10105	2 2 2	Hex Head Cap Screw, 3/4"-10 x 2" Lock Washer, 3/4" Hex Nut, 3/4"-10
18	G10636 G10071	4 4	Carriage Bolt, 1/2"-13 x 1 1/2" Serrated Flange Nut, 1/2"-13
19	G11396	2	Flat Washer, 1 1/4"
20	G10159	-	Washer, 1 7/8"
21	G10581 G10111	2 2	Hex Head Cap Screw, 1/2"-13 x 2 1/4" Lock Nut, 1/2"-13
22	GA5121	2	Pin, 2 1/8"
23	GA8839	1	Arm
24	GD11695	1	Pin, 1 1/4" x 13 1/4"
25	G10610	2	Spring Pin, 3/8" x 2"
26	GA9877 G10640	1 2	Clamp W/Grease Fittings Grease Fitting, 1/4"-28 (Included W/GA9877)
A	GA2147	-	Hub and Spindle Assembly (Items 8-10 and 12)
B	GA7409	-	Scraper Assembly (Items 6, 7, 16 and 18)
C	GA14412	-	Tire and Rim Assembly (Items 13-15)

* 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.

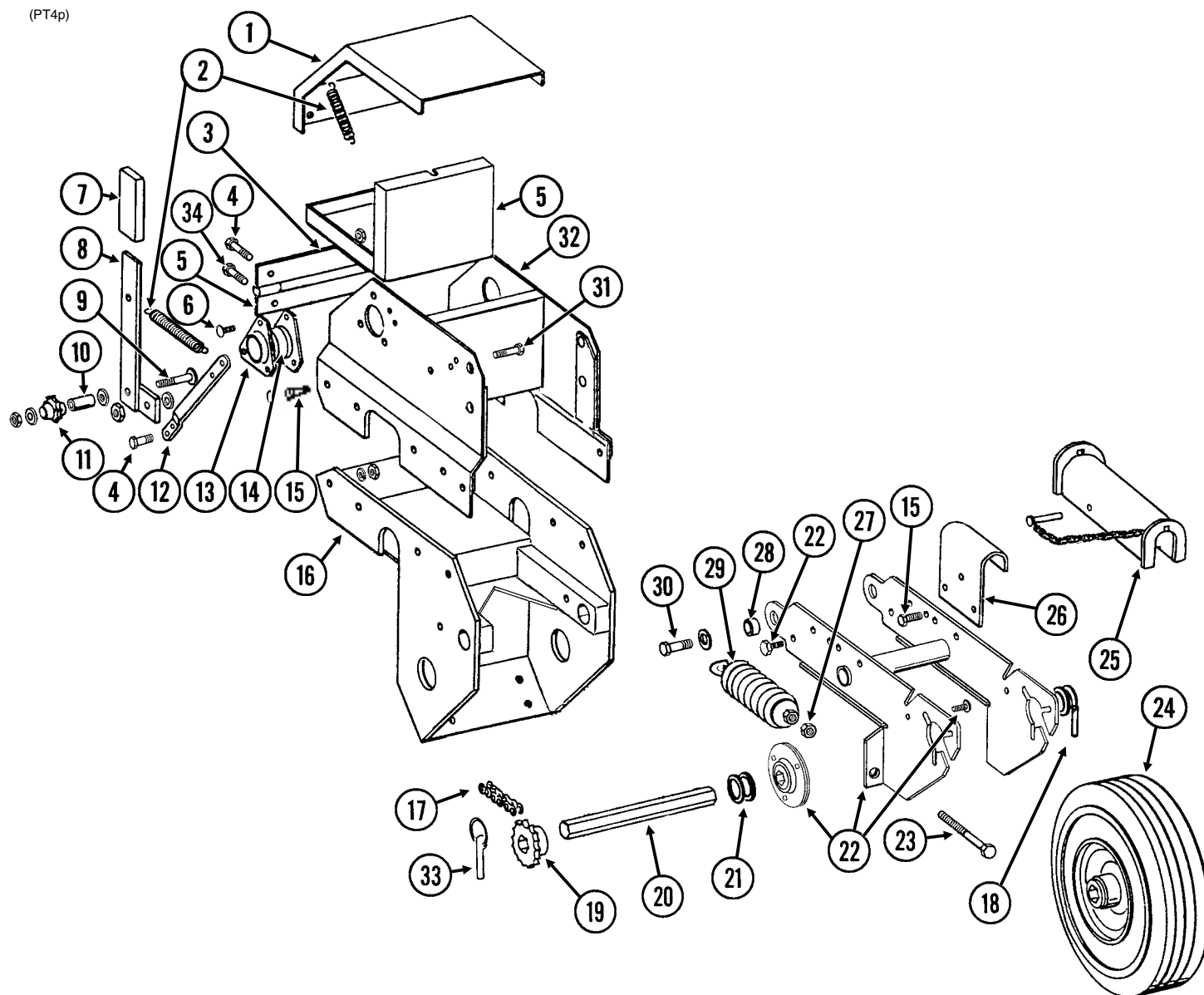
(IP1313)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GA14349	1	Wheel Module
2	GD20461	1	Pin, 1¼" x 13"
3	G11400	2	Retaining Ring, 1¼"
4	GA14348	1	Lower Half Clamp
5	G10006	6	Hex Head Cap Screw, ⅝"-11 x 2¼"
6	G11391	6	Flat Washer, ⅝" SAE
7	G10230	6	Lock Washer, ⅝"
8	G10104	6	Hex Nut, ⅝"-11
9	GA5122	1	Wheel Tower Clamp
10	---	1	See "Master Lift Cylinder" on page P68 See "Transport and Ground Drive Wheel Assembly (2012 Production and on)" on page P51 See "Contact Wheel and Arm Assembly" on page P53
11	GA5121	2	Pin, 2⅛"
12	G10053	2	Hex Head Cap Screw, ½"-13 x 2 ½"
	G10111	2	Lock Nut, ½"-13
13	G10159	4	Washer, 1⅞"
14	G10460	2	Cotter Pin, ¼" x 2"
15	GD5841	1	Pin, 1¼" x 5⅝"
16	GD20458	1	Slotted Scraper
17	G10636	2	Carriage Bolt, ½"-13 x 1½"
18	G10071	2	Serrated Flange Nut, ½"-13
19	GD20456	1	Short Scraper Arm
20	G10026	3	Hex Head Cap Screw, ¾"-10 x 2"
21	G10231	2	Lock Washer, ¾"
22	G11314	1	Serrated Flange Nut, ¾"-10
23	GR0270	6	Lug Bolt, ⅞"-18
24	GA14413	1	Rim, 5.50" x 20"
25	GA7434	1	Valve Stem
26	GD13401	1	Tire, 7.50" x 20", 8 Ply, Tubeless W/O Center Rib (Specify Brand*)
27	GA4376	1	Spindle Assembly
	GD11490	1	Round External Retaining Ring (Included W/GA4376)
	GD11458	1	Spindle (Included W/GA4376)
28	GA0895	2	Bearing
29	GR0434	2	Cup
30	GB0160	1	Hub, 6 Bolt
31	G11081	2	Hex Jam Nut, 1½"-12, Grade 2
A	GA2148	1	Hub W/Cups, 6 Bolt (Items 29 and 30)
B	GA14412	1	Tire and Rim Assembly (Items 24-26) (Specify Brand*)

* 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.

(PT4p)

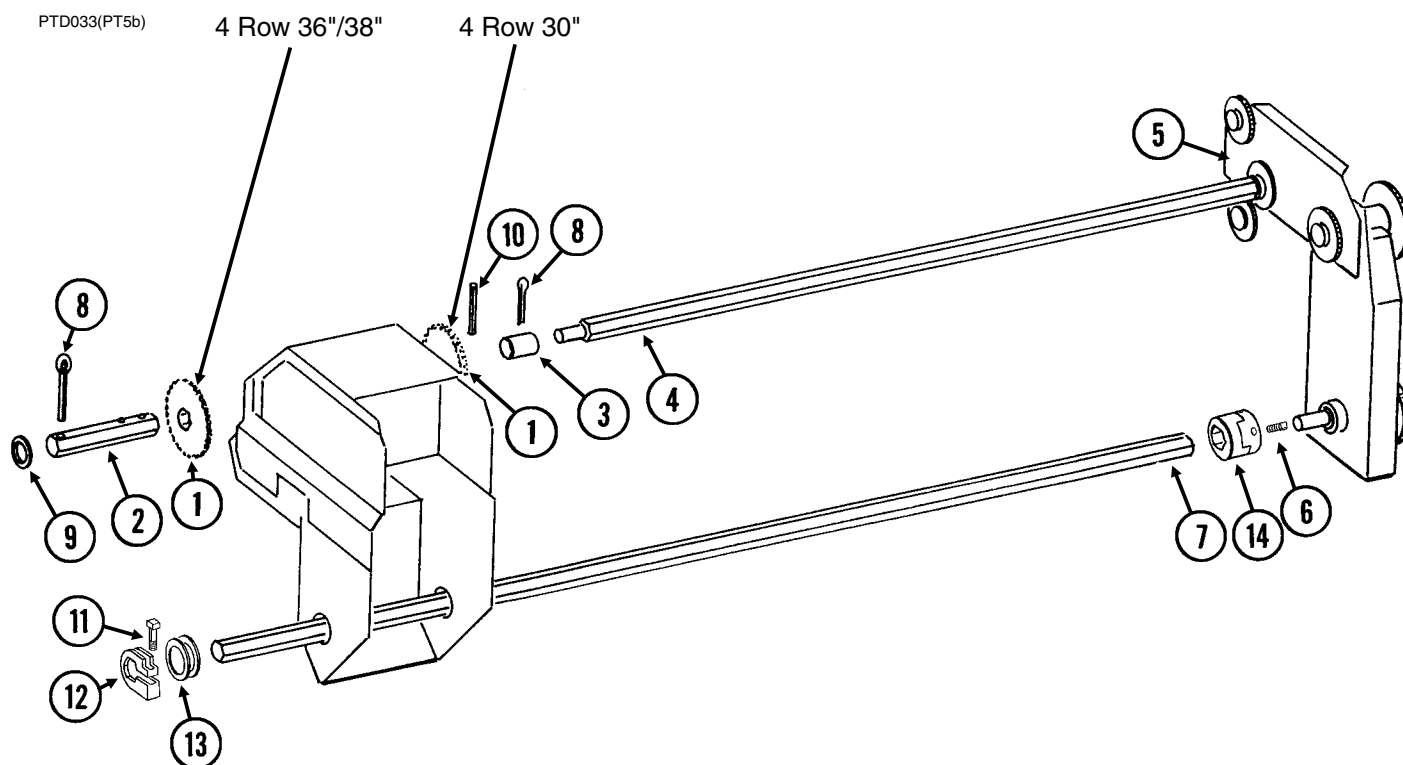


ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GA5791	1	Cover
	G10860	-	Retaining Ring, $\frac{3}{8}$ "
	G10870	-	Clevis Pin, $\frac{3}{8}$ " x 1"
2	GD5857	2	Spring
3	GA13790	1	Slip Joint Assembly
	GD5789	1	Hinge W/Pins, Female (Included W/GA13790)
	GD5790	1	Hinge W/Pins, Male (Included W/GA13790)
4	G10064	4	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x 1"
	G10621	4	Serrated Flange Nut, $\frac{1}{4}$ "-20
5	GA7235	1	Tool Box Insert
6	G10303	-	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G11386	-	Washer, $\frac{5}{16}$ " SAE (As Required)
	G10620	-	Serrated Flange Nut, $\frac{5}{16}$ "-18
7	GD5827	1	Cover

ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
8	GA5157	1	Idler Arm, L.H.
	GA5158	-	Idler Arm, R.H.
9	G10306	1	Carriage Bolt, $\frac{3}{8}$ "-16 x 2"
	G11387	-	Flat Washer, $\frac{3}{8}$ " SAE (As Required)
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
10	GD1026	1	Sleeve, $1\frac{3}{16}$ " Long
11	GD7426	1	Sprocket, 12 Tooth
12	GD5860	1	Bar
13	G3400-01	-	Flangette
14	G2100-03	-	Bearing, $\frac{7}{8}$ " Hex Bore, Spherical
15	G10004	8	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
	G10622	8	Serrated Flange Nut, $\frac{3}{8}$ "-16
16	---	-	See "Transport and Ground Drive Wheel Assembly (Prior to 2011 Production)" on page P49
17	G3310-132	1	Chain, No. 40, 132 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
18	G10602	1	Spring Pin, $\frac{1}{4}$ " x $1\frac{1}{2}$ "
19	GA5105	1	Sprocket, 15 Tooth
20	GD6825-10.5	1	Hex Shaft, $\frac{7}{8}$ " x $10\frac{1}{2}$ " (2 Holes)
21	G10233	6	Machine Bushing, 1", 10 Gauge
22	A7370	1	Arm W/Flanged Bearings and Hardware (Non-Stock Item) (Sub G1K253)
	G10303	6	Carriage Bolt, $\frac{5}{16}$ "-18 x 1" (Included W/A7370)
	G10620	6	Serrated Flange Nut, $\frac{5}{16}$ "-18 (Included W/A7370)
	GA9846	2	Flanged Bearing, $\frac{7}{8}$ " Hex Bore (Included W/A7370)
	G10055	2	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{1}{4}$ " (Stop Bolt) (Included W/A7370)
	G10107	2	Lock Nut, $\frac{5}{8}$ "-11 (Included W/A7370)
23	G10890	2	Hex Head Adjusting Bolt, $\frac{1}{2}$ "-13 x 4", Grade 2
24	GA5090	1	Tire and Rim Assembly (Specify Brand*)
	GD5753	-	Tire, 4.10" x 6" (Specify Brand*) (Included W/GA5090)
	GD5752	-	Inner Tube (Included W/GA5090)
25	GA9870	-	Lockup W/Pin
	G10874	-	Detent Pin, $\frac{1}{2}$ " x $3\frac{1}{2}$ " Grip (Included W/GA9870)
26	GD7944	1	Mount
27	G10501	2	Hex Jam Nut, $\frac{1}{2}$ "-13, Grade 2
28	GB0218	2	Bushing, $2\frac{1}{32}$ " I.D. x $\frac{7}{8}$ " O.D. x $1\frac{19}{32}$ " Long
29	GA2068	2	Spring W/Plug
30	G10005	2	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{3}{4}$ "
	G10235	6	Machine Bushing, $\frac{7}{8}$ ", 14 Gauge
	G11391	2	Flat Washer, $\frac{5}{8}$ " SAE
	G10107	2	Lock Nut, $\frac{5}{8}$ "-11
31	G10004	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
	G10229	1	Lock Washer, $\frac{3}{8}$ "
	G10370	1-2	Machine Bushing, $\frac{3}{8}$ ", 22 Gauge
	GD5756	1	Special Nut, $\frac{3}{8}$ "-16
32	GA5118	1	Mount
33	GD2558	1	Lynch Pin, $\frac{1}{4}$ "
34	G10064	2	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x 1"
	G11385	2	Flat Washer, $\frac{1}{4}$ " SAE
	G10227	2	Lock Washer, $\frac{1}{4}$ "
	G10103	2	Hex Nut, $\frac{1}{4}$ "-20

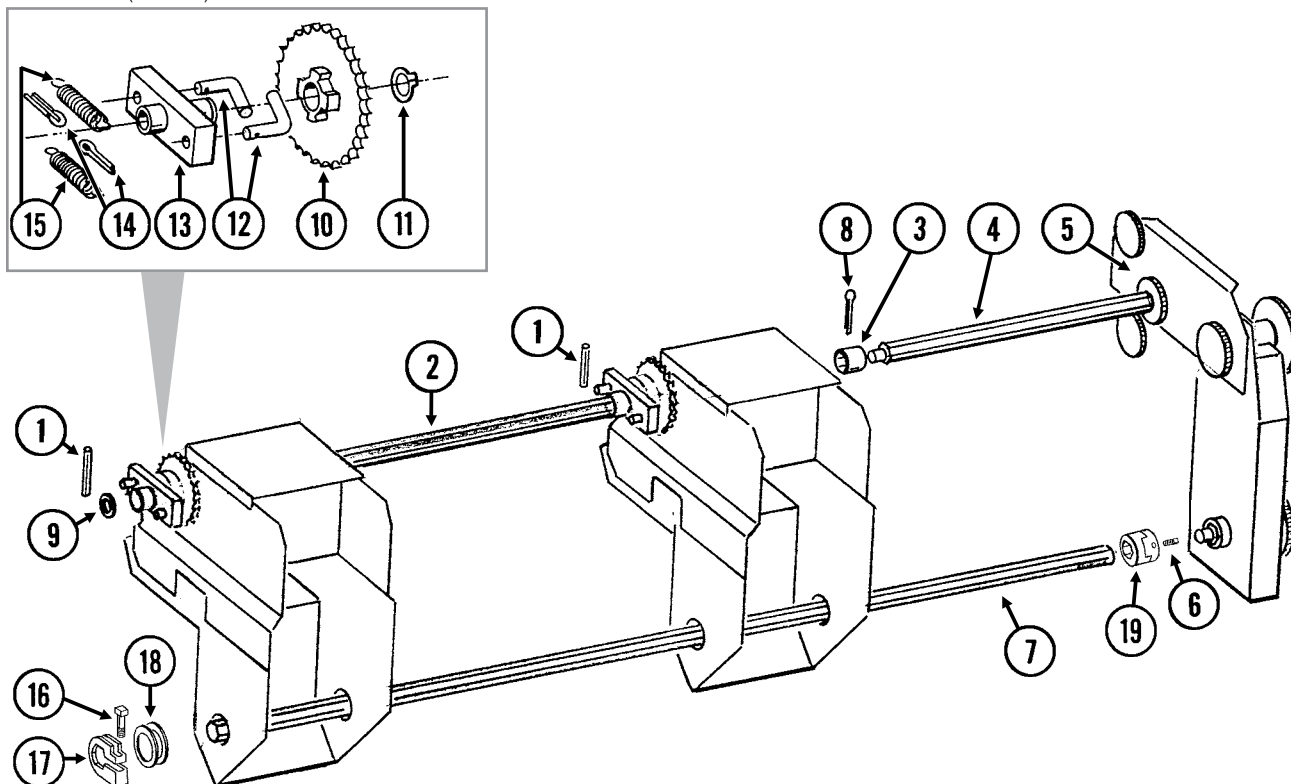
A G1K253 - Contact Wheel Arm Replacement Kit, (Items 18, 20, 22, 23 and 27)

* 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.



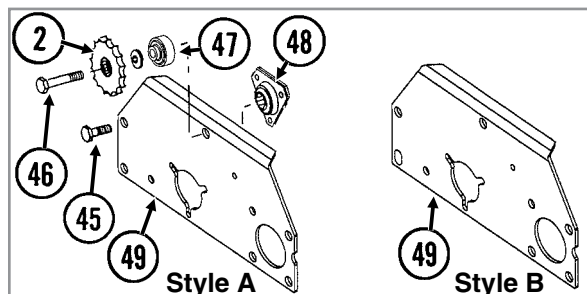
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA5114	1	Sprocket, 30 Tooth
2	GD7819	1	Hex Shaft, $\frac{7}{8}$ " x $15\frac{1}{4}$ " (3 Holes), 4 Row 30"
	GD5958	-	Hex Shaft, $\frac{7}{8}$ " x 16" (4 Holes), 4 Row 36"/38"
3	GD5961	1	Coupler, 2 $\frac{1}{4}$ "
4	GD5885-02	1	Hex Shaft, $\frac{7}{8}$ " x 19" (6 Holes), 4 Row 30"
	GD5885-03	-	Hex Shaft, $\frac{7}{8}$ " x 24" (6 Holes), 4 Row 36"/38"
5	---	-	See "Seed Rate Transmission Assembly" on page P57
6	G10131	4	Square Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "
7	GD0914-109	1	Hex Shaft, $\frac{7}{8}$ " x 109" (No Holes), 4 Row 30"
	GD0914-134	-	Hex Shaft, $\frac{7}{8}$ " x 134" (No Holes), 4 Row 36"/38"
8	G10460	2	Cotter Pin, $\frac{1}{4}$ " x 2"
9	G10233	-	Machine Bushing, 1", 10 Gauge (As Required)
10	G10602	1	Spring Pin, $\frac{1}{4}$ " x $1\frac{1}{2}$ "
11	G10130	1	Square Head Machine Bolt, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ "
	G10923	1	Flange Nut, $\frac{5}{16}$ "-18, No Serration
12	GD11045	1	Lock Clamp
13	G10233	2	Machine Bushing, 1", 10 Gauge
14	GB0287	2	Coupler
A	G1K269	-	Lock Clamp Kit (Items 11 and 12)

PTD016/PTD034(PT6/PT7c)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10602	2	Spring Pin, 1/4" x 1 1/2"
2	GD5884-01	1	Hex Shaft, 7/8" x 36" (3 Holes), 6 Row 30" and 8 Row 30"
	GD5960	-	Hex Shaft, 7/8" x 50" (6 Holes), 6 Row 36"/38"
3	GD5961	1	Coupler, 2 1/4"
4	GD5885-01	1	Hex Shaft, 7/8" x 30" (6 Holes), 6 Row 30"/36"/38" and 8 Row 30"
5	---	-	See "Seed Rate Transmission Assembly" on page P57
6	G10131	4	Square Head Set Screw, 5/16"-18 x 3/4"
7	GD0914-170	1	Hex Shaft, 7/8" x 170" (No Holes), 6 Row 30"
	GD0914-210	-	Hex Shaft, 7/8" x 210" (No Holes), 6 Row 36"/38"
	GD0914-230	-	Hex Shaft, 7/8" x 230" (No Holes), 8 Row 30"
8	G10460	2	Cotter Pin, 1/4" x 2"
9	G10233	-	Machine Bushing, 1", 10 Gauge (As Required)
10	GA5165	1	Sprocket, 30 Tooth
11	G10430	1	External Retaining Ring, 1 1/4"
12	GD1255	2	L-Pin
13	GA0378	1	Block and Hub Assembly
14	G10453	2	Cotter Pin, 3/16" x 1"
15	GD1256	2	Spring
16	G10130	1	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	1	Flange Nut, 5/16"-18, No Serration
17	GD11045	1	Lock Clamp
18	G10233	2	Machine Bushing, 1", 10 Gauge
19	GB0287	2	Coupler
A	GA5164	-	Ratchet/Sprocket Assembly, Includes: (2) GD1256, (2) G10464,
B	G1K269	-	Lock Clamp Kit (Items 16 and 17)

(PT8k/PT8mm)



If replacing Style A (GD5830)

Must Order:

GD30624 X

GD30622

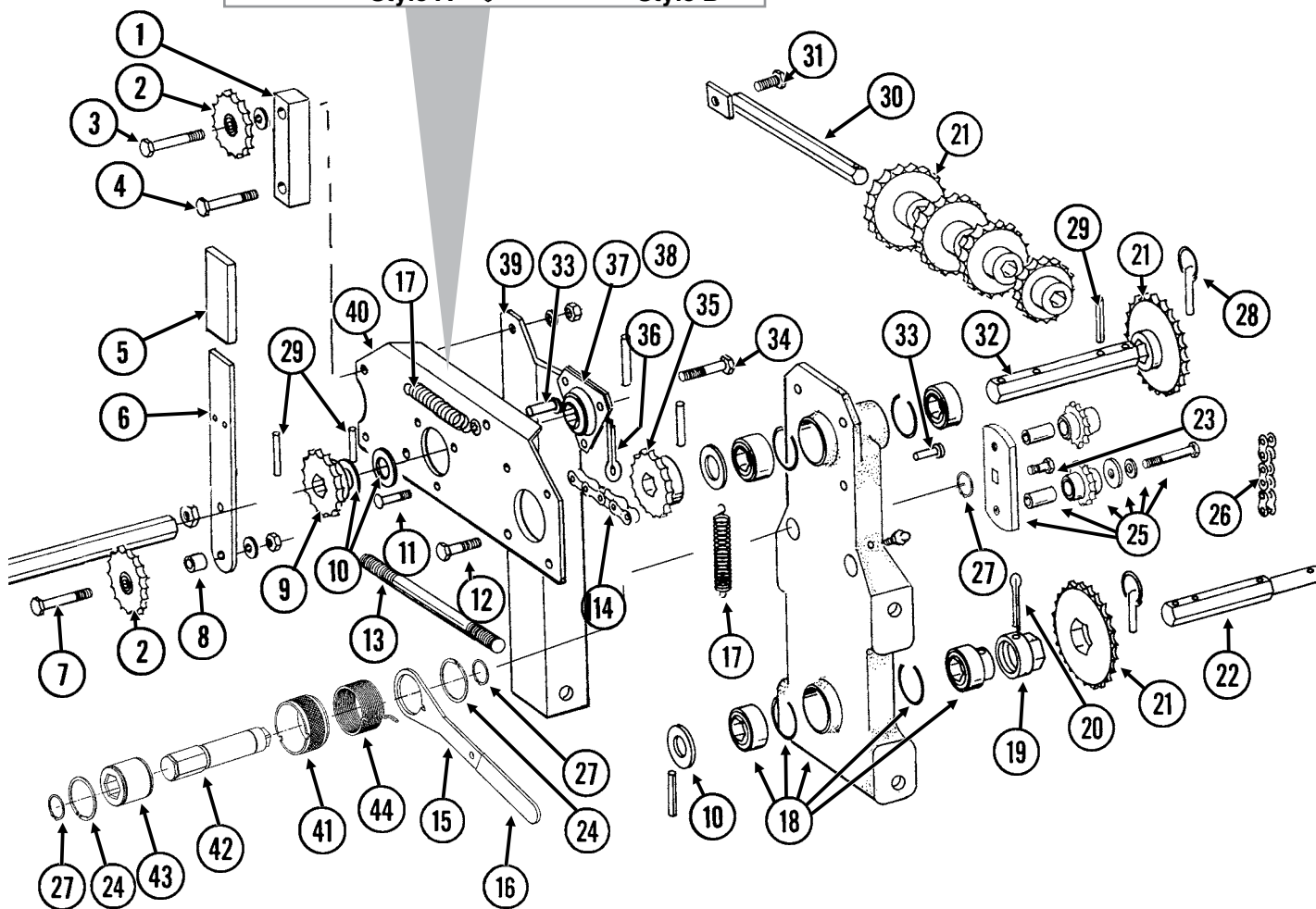
If replacing Style A (GD16302)

Must Order:

GD30624 X

GD30622 X

NOTE: Style A contains holes and Style B contains a slot.

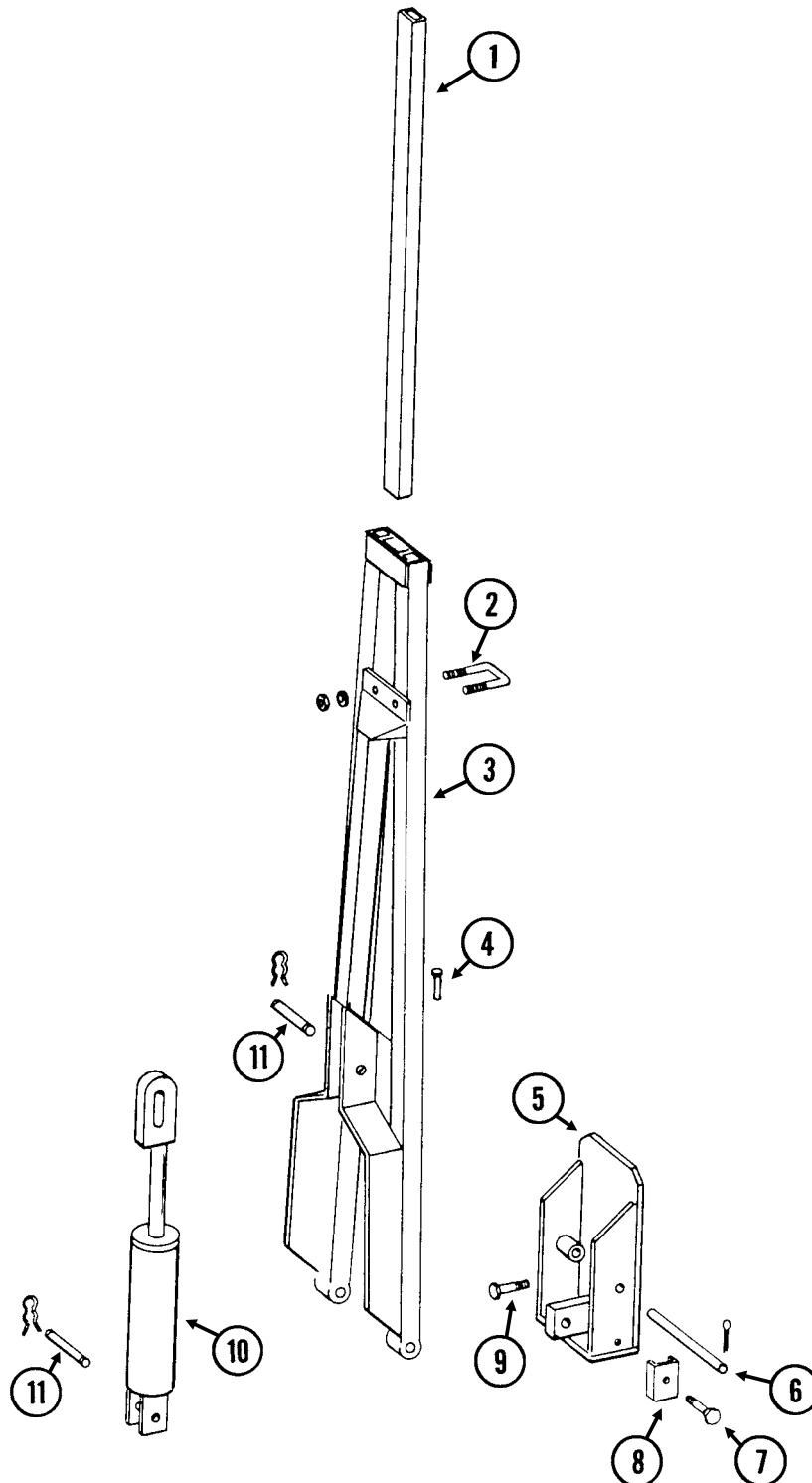


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD12571	-	Spacer, 1" x 4"
2	GA7154	1	Sprocket W/Bearing, 18 Tooth
3	G10033	1	Hex Head Cap Screw, ½"-13 x 3½"
	G10128	-	Machine Bushing, ½", 14 Gauge (As Required)
	G10228	1	Lock Washer, ½"
	G10102	1	Hex Nut, ½"-13
4	G10053	1	Hex Head Cap Screw, ½"-13 x 2½"
	G10228	1	Lock Washer, ½"
	G10102	1	Hex Nut, ½"-13
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, ⅝"-18 x 1"
	G10232	3	Lock Washer, ⅝"
	G10106	3	Hex Nut, ⅝"-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)
	GR0912	-	Drive Reduction
		-	Connector Link, No. 40
15	GD14431	1	Handle
16	G11078	1	Vinyl Cap
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)
	G10640	-	Grease Fitting, ¼"-28 (Included W/GA5629)
19	GD7127	1	Shear Coupler
20	G10821	1	Clevis Pin, ⅜" x 2"
	G10455		Cotter Pin, ⅜" x ½"
21	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"

ITEM	PART NO.	QTY.	DESCRIPTION
23	G11100	1	Hex Socket Button Head Cap Screw, ¼"-20 x ½", Grade 8
	G10227	1	Lock Washer, ¼"
	G11453	1	Fender Washer, ¼"
24	G10496	2	External Inverted Snap Ring, 1½"
25	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth (Included W/GA7336)
	GD1026	-	Sleeve, 1⅜" 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	G11075	3	External Inverted Snap Ring, ⅞"
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"
	G11387	1	Flat Washer, ⅜" SAE
	GD15538	2	Spacer, ⅜" I.D. x ⅞" O.D., 7 Gauge
	GD5756	1	Special Nut, ⅜"-16
35	GA5106	1	Sprocket, 17 Tooth, Standard Drive
	GA5202	-	Sprocket, 34 Tooth, Half Rate (2 To 1) Drive Reduction
36	G10460	1	Cotter Pin, ¼" x 2"
37	G2100-03	1	Bearing, ⅞" Hex Bore, Spherical
38	G3400-01	2	Flangette
39	GD5830	1	Angle Support, R.H. (Style A) (Replaced with GD30624)
	GD30624	1	Angle Support, R.H. (Style B)
40	GD5824	1	Plate, R.H.
41	GD19343	1	Release Collar, R.H.
42	GD14427	1	Tightener Shaft, 4 ⅞
43	GD14432	1	Sleeve, 1 ¼"
44	GD14413	1	Torsion Spring, L.H. (Used On R.H. Wrap Spring Wrench)
45	G10017	2	Hex Head Cap Screw, ½"-13 x 1 ½"
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
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
47	GB0259	-	Spacer, 1"
48	GA7841	-	Bearing, ⅞" Hex Bore
49	GD16302	-	Reverser Plate (Style A) (Replaced With GD30622)
	GD30622	-	Reverser Plate (Style B)
A	G1K378	-	Wrap Spring Wrench Replacement Kit, Blue Collar, R.H. (Items 15, 16, 23, 24, 27 and 41-44)

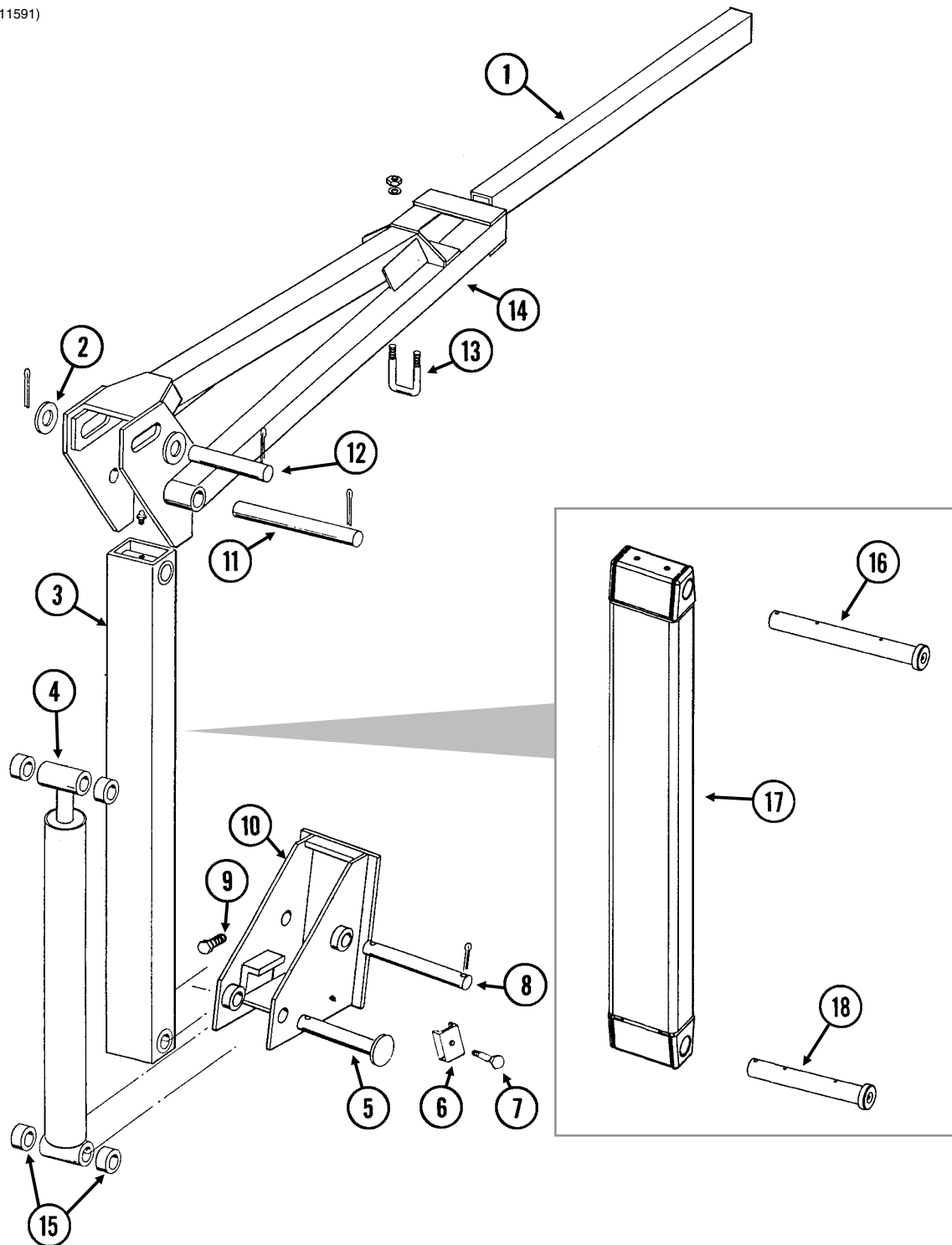
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MKR010(MKR1a)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD0453-02	1	Extension Tube, 40", 4 Row 30"
	GD0453-06	-	Extension Tube, 30", 4 Row 30" W/Optional Interplant Package
	GD0453-07	-	Extension Tube, 45", 4 Row 36"/38" and 6 Row 30"
2	GD2721	1	U-Bolt, 2" x 2" x 1½"-13
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
3	GA5175	1	Arm W/Grease Fittings, 31½", 4 Row 30"
	GA5184	-	Arm W/Grease Fittings, 44½", 4 Row 36"/38"
	GA5183	-	Arm W/Grease Fittings, 58½", 6 Row 30"
	G10640	-	Grease Fitting, ¼"-28 (Included W/GA5175, GA5184, or GA5183)
4	GD0462	1	Safety Lockup Pin
	G10670	1	Hair Pin Clip, No. 3
	G10187	1	Spring Pin, ⅝" x 2"
5	GA5177	1	Mount W/Grease Fittings, 4 Row 30"
	GA5178	-	Mount W/Grease Fittings, 4 Row 36"/38" and 6 Row 30"
	G10640	-	Grease Fitting, ¼"-28 (Included W/GA5177 or GA5178)
6	GD0438	1	Pin, 13½"
	G10460	2	Cotter Pin, ¼" x 2"
7	G10133	1	Hex Head Cap Screw, ⅝"-18 x 1½"
	G10109	1	Lock Nut, ⅝"-18, Grade 8
8	GD5892	1	Hose Clamp, ⅝" x 1½" x 1½"
9	G10008	4	Hex Head Cap Screw, ⅝"-11 x 2"
	G10230	4	Lock Washer, ⅝"
10	---	-	See "Row Marker Cylinder, 4 Row 30"/36"/38" and 6 Row 30"" on page P71
11	GR0962	1	Pin, 1" x 3⅝"
	GR0193	2	Hair Pin Clip

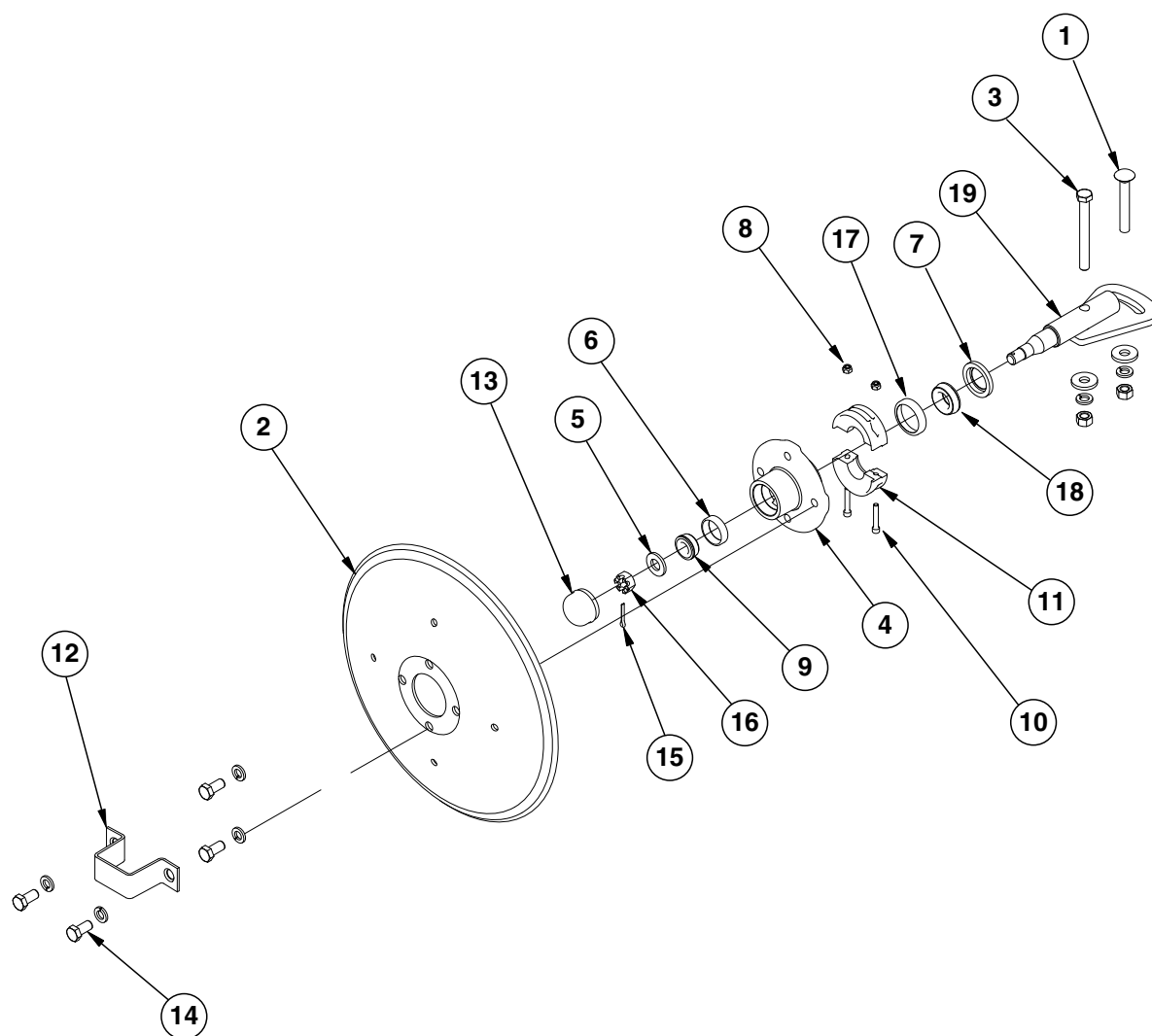
MKR006/MKR009(MKR2I/A11591)



Row Marker Assembly, Two-Fold Low Profile 6 Row 36"/38" and 8 Row 30"

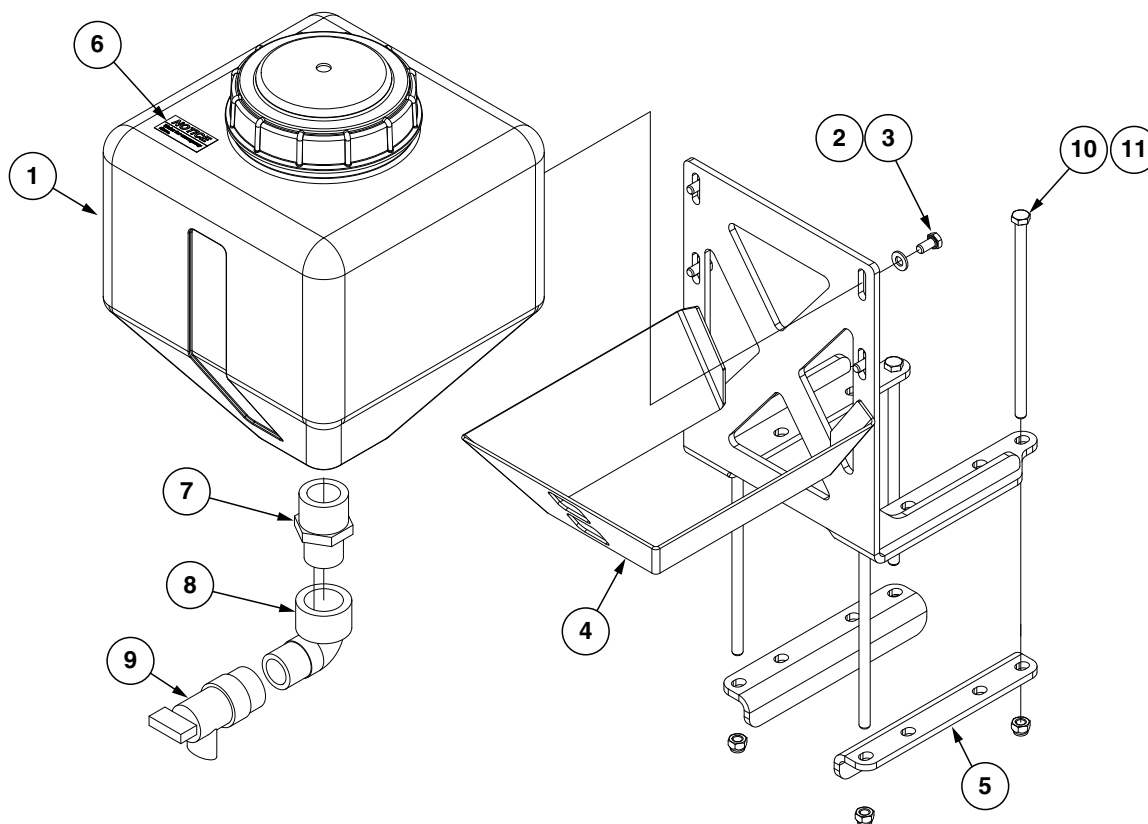
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD0453-03	1	Extension Tube, 50", 6 Row 36"/38" and 8 Row 30"
2	G11396	2	Flat Washer, 1 1/4" SAE
3	GA5173	1	Arm W/Grease Fittings, First Stage
	G10641	-	Grease Fitting, 1/8" NPT (Included W/GA5173)
4	---	-	See "Row Marker Cylinder, 6 Row 36"/38" and 8 Row 30"" on page P72
5	GD15386	1	Pin, 1 1/4" x 7 5/8"
	G10460	1	Cotter Pin, 1/4" x 2"
6	GD5875	1	Hose Clamp
7	G10133	1	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	1	Lock Nut, 5/16"-18, Grade 8
8	GD0652	1	Pin, 1 1/4" x 9 1/2"
	G10460	2	Cotter Pin, 1/4" x 2"
9	G10879	4	Flanged 12 Point Bolt, 5/8"-11 x 2", Special Hardened
10	GA5130	1	Mount
11	GD3214	1	Pin, 1 1/4" x 12 1/4"
	G10460	2	Cotter Pin, 1/4" x 2"
12	GD2161	1	Pin, 1 1/4" x 8 1/4"
	G10460	2	Cotter Pin, 1/4" x 2"
13	GD2721	1	U-Bolt, 2" x 2" x 1/2"-13
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
14	GA5190	1	Arm, Second Stage, 35", 6 Row 36"/38"
	GA5188	-	Arm, Second Stage, 46", 8 Row 30"
15	GD0752-41	-	Sleeve, 1" (If Applicable)
16	GA11766	-	Pin W/Grease Fitting, 1 1/4" x 11 13/16"
	G10640	-	Grease Fitting, 1/4"-28 (Included W/GA11766)
	G10460	1	Cotter Pin, 1/4" x 2" (Included W/GA11766)
17	GA11591	-	Arm, First Stage
18	GA11767	-	Pin W/Grease Fitting, 1 1/4" x 9 1/2"
	G10640	-	Grease Fitting, 1/4"-28 (Included W/GA11767)
	G10460	1	Cotter Pin, 1/4" x 2" (Included W/GA11767)

IP1035aa



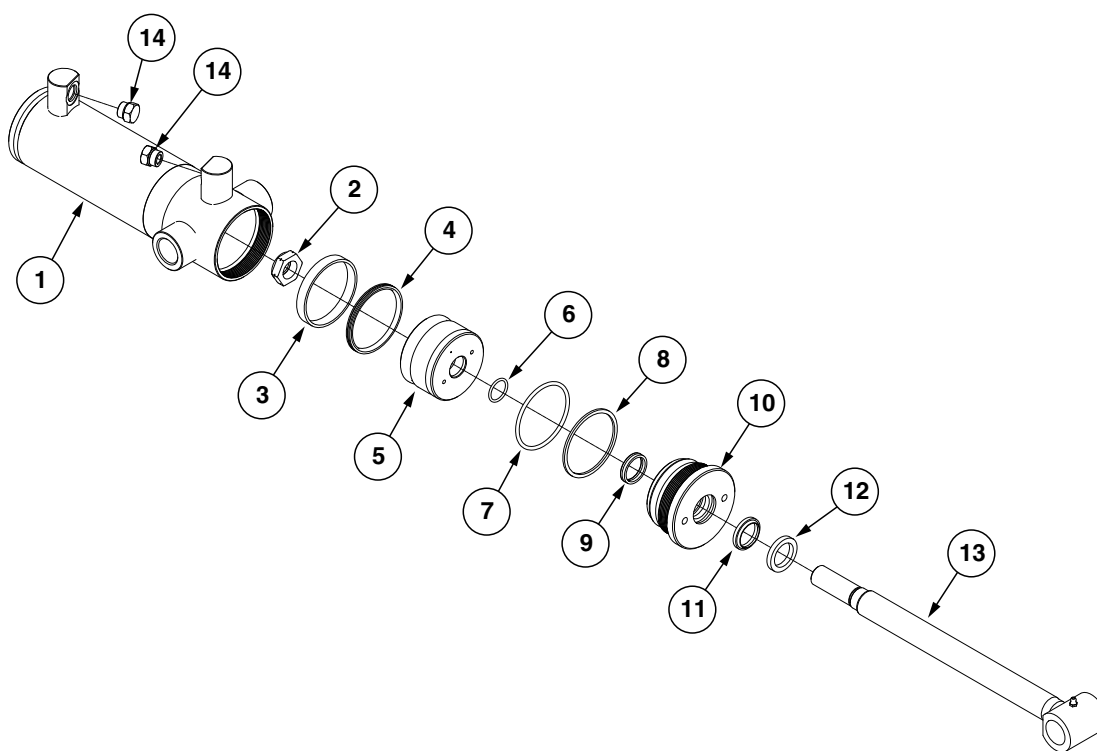
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10844	1	Carriage Bolt, 1/2"-13 x 3 1/2"
	G10168	2	Machine Bushing, 1/2", 7 Gauge
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
2	GD0746	1	Disc Blade, Solid, 16" (Shown)
	GD10283	-	Disc Blade, Notched, 16" (Optional)
3	G10045	1	Hex Head Cap Screw,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

A21003



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD30723	1	4 Gallon Water Tank W/Lid
2	G11386	4	Flat Washer, $\frac{5}{16}$ " SAE
3	G10018	4	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $\frac{5}{8}$ "
4	GA21002	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, $\frac{3}{8}$ "-16 x 8"
11	G10108	4	Lock Nut, $\frac{3}{8}$ "-16

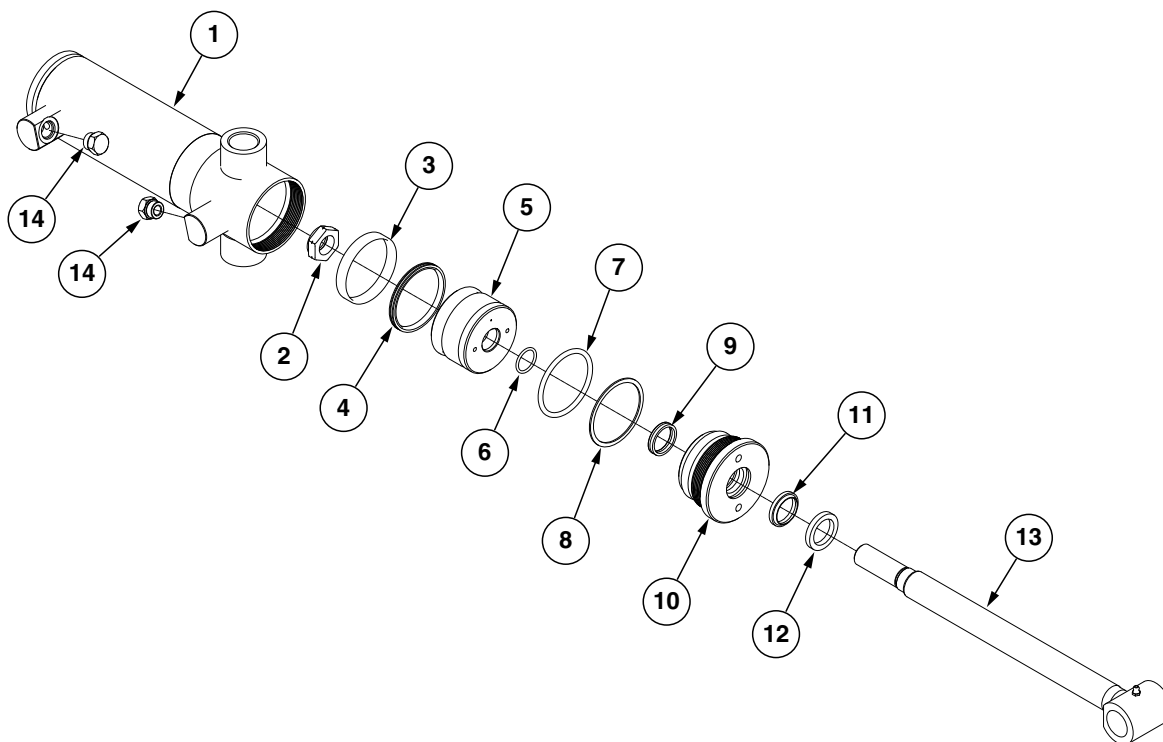
(IP1523)



ITEM	PART NO.	QTY.	DESCRIPTION
1	A4295	1	Barrel
2	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
3	*D12056	1	Wear Ring
4	*D12280	1	T-Seal
5	GA21112	1	Piston
6	*D29649	1	O-Ring, No. 215
7	*D12231	1	O-Ring, No. 338
8	*D12232	1	BU Ring
9	*D12251	1	U-Cup
10	GD12507	1	Gland
11	*D12210	1	Wiper
12	GD12102	1	Ring
13	GA21106	1	Rod
14	G6408-08 GR1037	2 -	Plug W/O-Ring, ¾"-16 O-Ring O-Ring
A	GA21111	-	Cylinder Complete, 3½" x 8" (Part Number Stamped On Barrel)
B	GR2228	-	Seal Kit, Includes: (1) Wiper, (3) O-Rings, (1) BU Ring, (1) T-Seal, (1) Wear Ring, (1) U-Cup

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

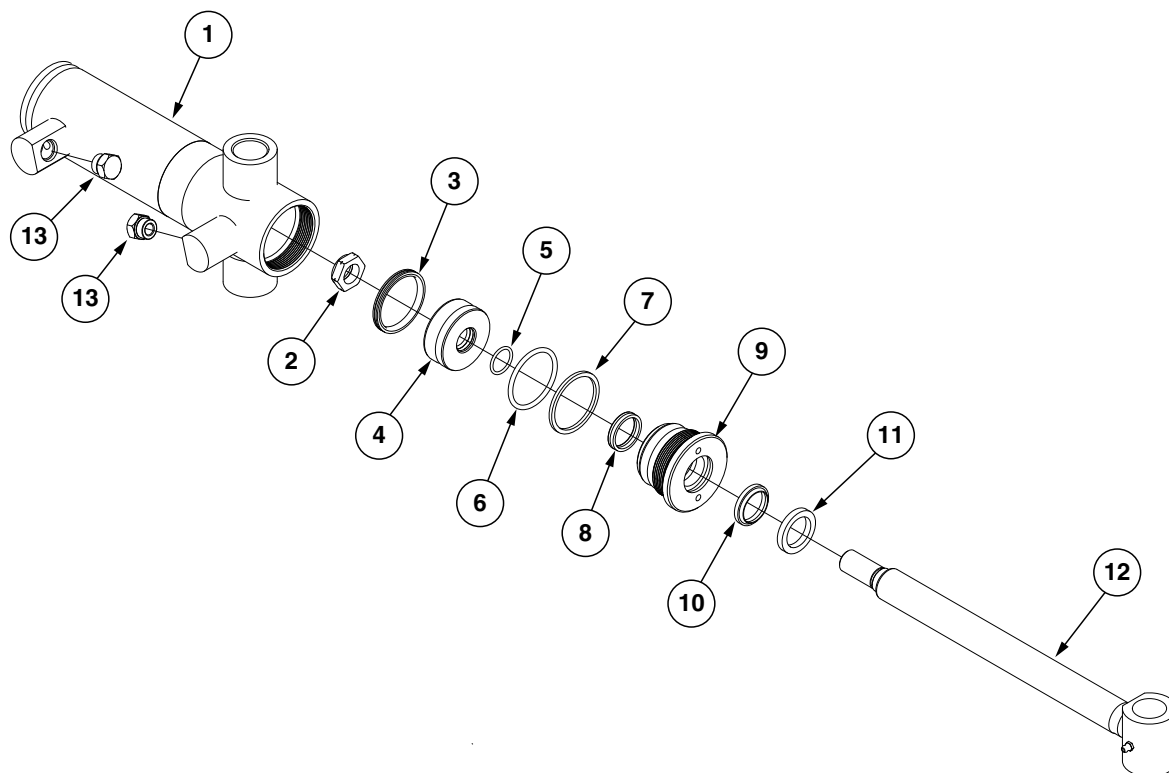
(IP1524)



ITEM	PART NO.	QTY.	DESCRIPTION
1	A7538	1	Barrel
2	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
3	*D12038	1	Wear Ring
4	*D12279	1	T-Seal
5	GA21105	1	Piston
6	*D29649	1	O-Ring, No. 215
7	*D12227	1	O-Ring, No. 336
8	*D12228	1	Back-Up Ring
9	*D12251	1	U-Cup
10	GD12505	1	Gland
11	*D12210	1	Wiper
12	GD12102	1	Ring
13	GA21106	1	Rod
14	G6408-08	2	Plug W/O-Ring, 3/4"-16 O-Ring
	GR1037	-	O-Ring
A	GA21104	-	Cylinder Complete, 3 1/4" x 8" (Part Number Stamped On Barrel)
B	GR2225	-	Seal Kit, Includes: (1) Wiper, (1) U-Cup, (3) O-Rings, (1) BU Ring, (1) T-Seal, (1) Wear Ring

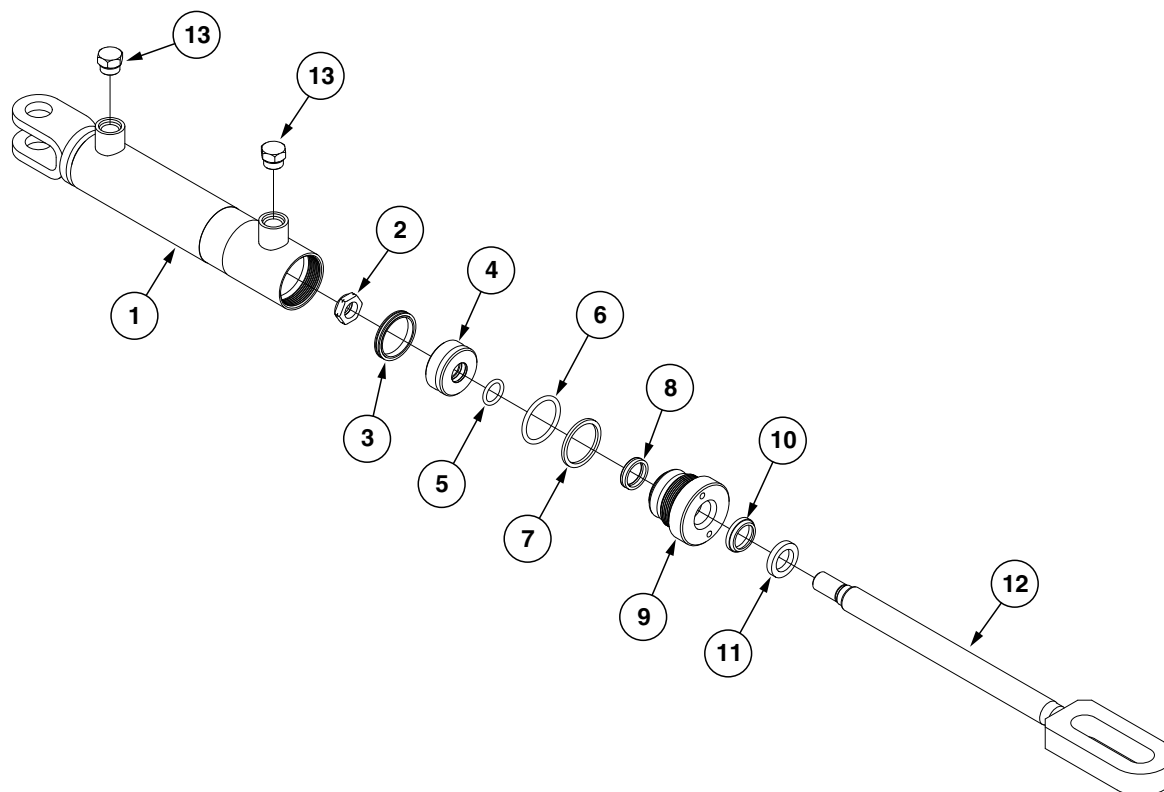
*Item is part of seal kit, item can not be purchased individually.

(IP1525)



ITEM	PART NO.	QTY.	DESCRIPTION
1	A8827	1	Barrel
2	GD27234	1	Nylon Lock Nut, 7/8"-14, Grade 8
3	*D12275	1	T-Seal, 2½"
4	GD30401	1	Piston
5	*D30399	1	O-Ring, No. 119
6	*D12212	1	O-Ring, No. 330
7	*D12213	1	BU Ring
8	*D12251	1	U-Cup
9	GD11985	1	Gland
10	*D12210	1	Wiper
11	GD12102	1	Ring
12	GA21185	1	Rod
13	G6408-08	2	Plug W/O-Ring, ¾"-16 O-Ring
	GR1037	-	O-Ring
A	GA21184	-	Cylinder Complete, 2½" x 8" (Part Number Stamped On Barrel)
B	GR2227	-	Seal Kit, Includes: (1) Wiper, (3) O-Rings, (1) BU Ring, (1) T-Seal, (1) U-Cup
*Item is part of seal kit, item can not be purchased individually.			

(IP1528)

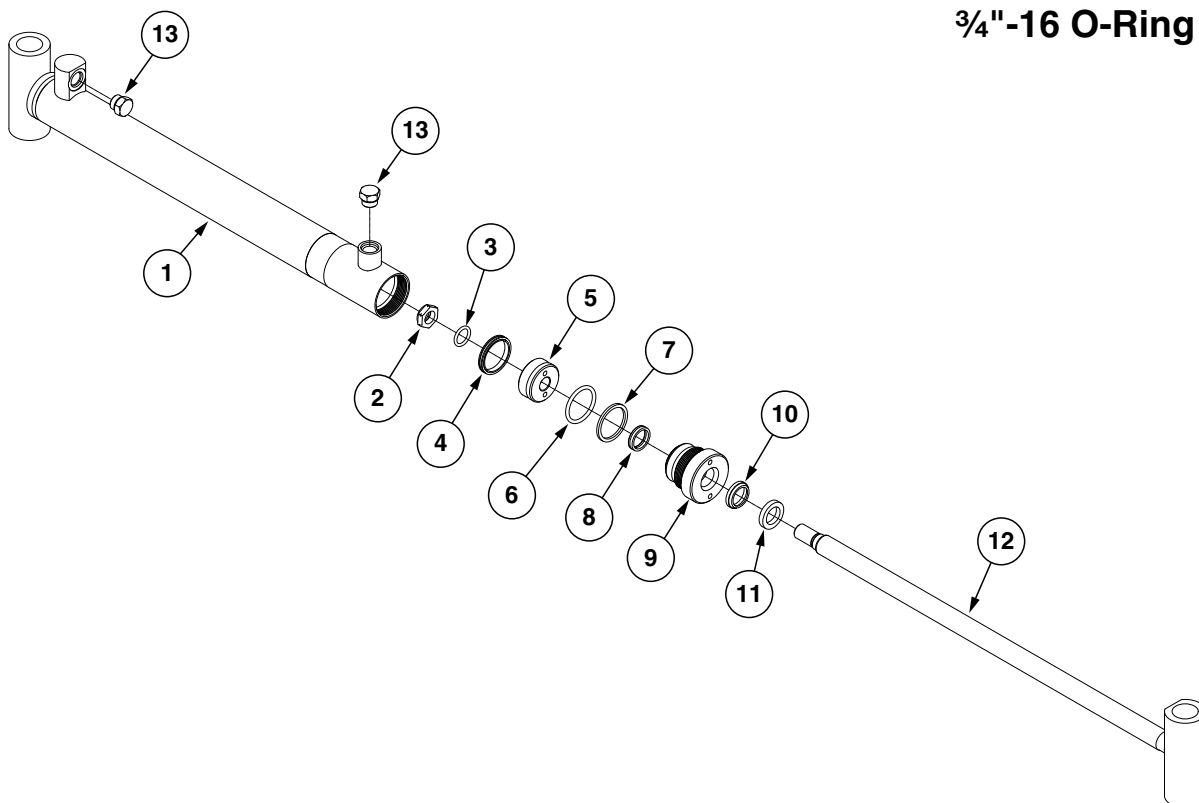


ITEM	PART NO.	QTY.	DESCRIPTION
1	A8775	1	Barrel
2	GD27233	1	Nylon Lock Nut, 3/4"-16, Grade 8
3	*D12277	1	T-Seal
4	GD29689	1	Piston
5	*D29692	1	O-Ring, No. 211
6	*D12235	1	O-Ring, No. 326
7	*D12236	1	Back-Up Ring
8	*D12256	1	U-Cup
9	GD12510	1	Gland
10	*D12233	1	Wiper Rod
11	GD12101	1	Ring
12	GA21168	1	Rod
13	G6408-08	2	Plug W/O-Ring, 3/4"-16 O-Ring
	GR1037	-	O-Ring

A	GA21167	-	Cylinder Complete, 2" x 8" (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) Instruction Sheet

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

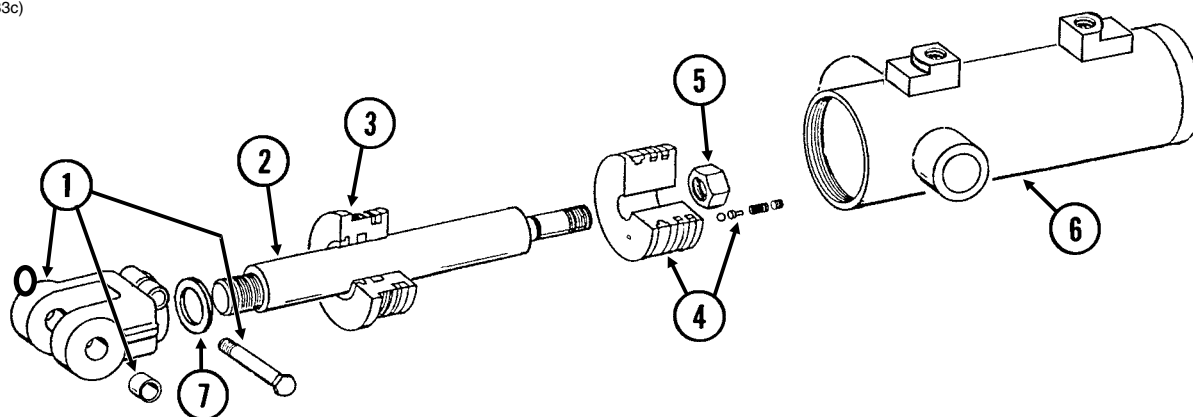
(IP1527)

3/4"-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	2	Plug W/O-Ring, 3/4"-16 O-Ring
	GR1037	-	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) Instruction Sheet

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

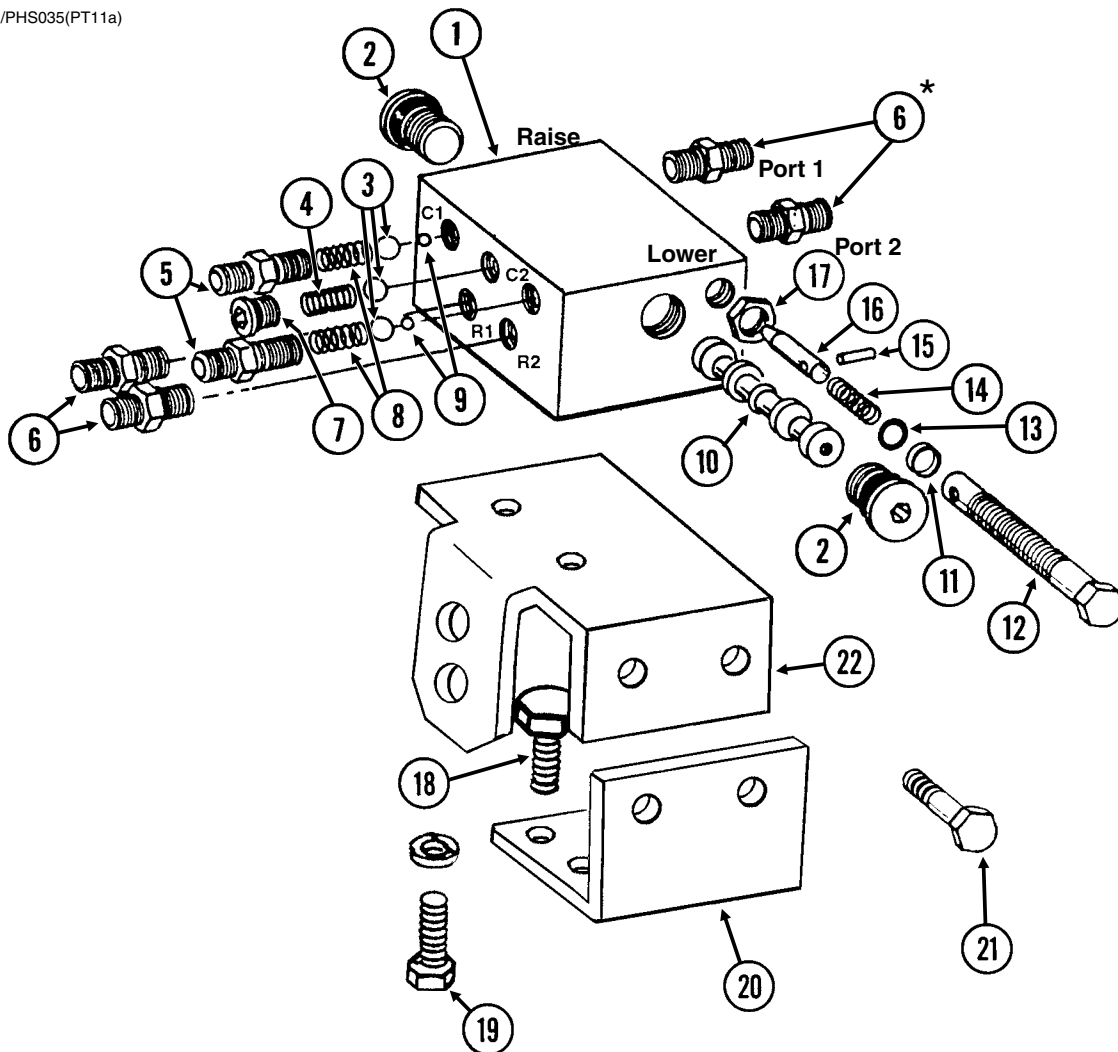
(CYL33c)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA8130	1	Clevis W/Bushings, Hex Head Cap Screw and Hex Nut
	GR1401	2	Bushing
	G10939	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 2 $\frac{1}{4}$ "
	G10101	1	Hex Nut, $\frac{3}{8}$ "-16
2	GD12513	1	Rod
3	GD11995	1	Gland
4	GA8924	1	Piston W/Rephasing Valve
	GR1169	-	Rephasing Valve Replacement Kit (Includes: Set Screw, Guide, 2 Springs and Ball)
5	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
6	A8923	1	Barrel
7	G10957	4	Steel Shim
A	GA8897	-	Cylinder Complete, 4 $\frac{1}{4}$ " x 4" (<i>Part Number Stamped On Barrel</i>)
B	GR1523	-	Seal Kit, Includes: (1) Wiper, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Seal, (1) Expander, (2) Cast Iron Ring

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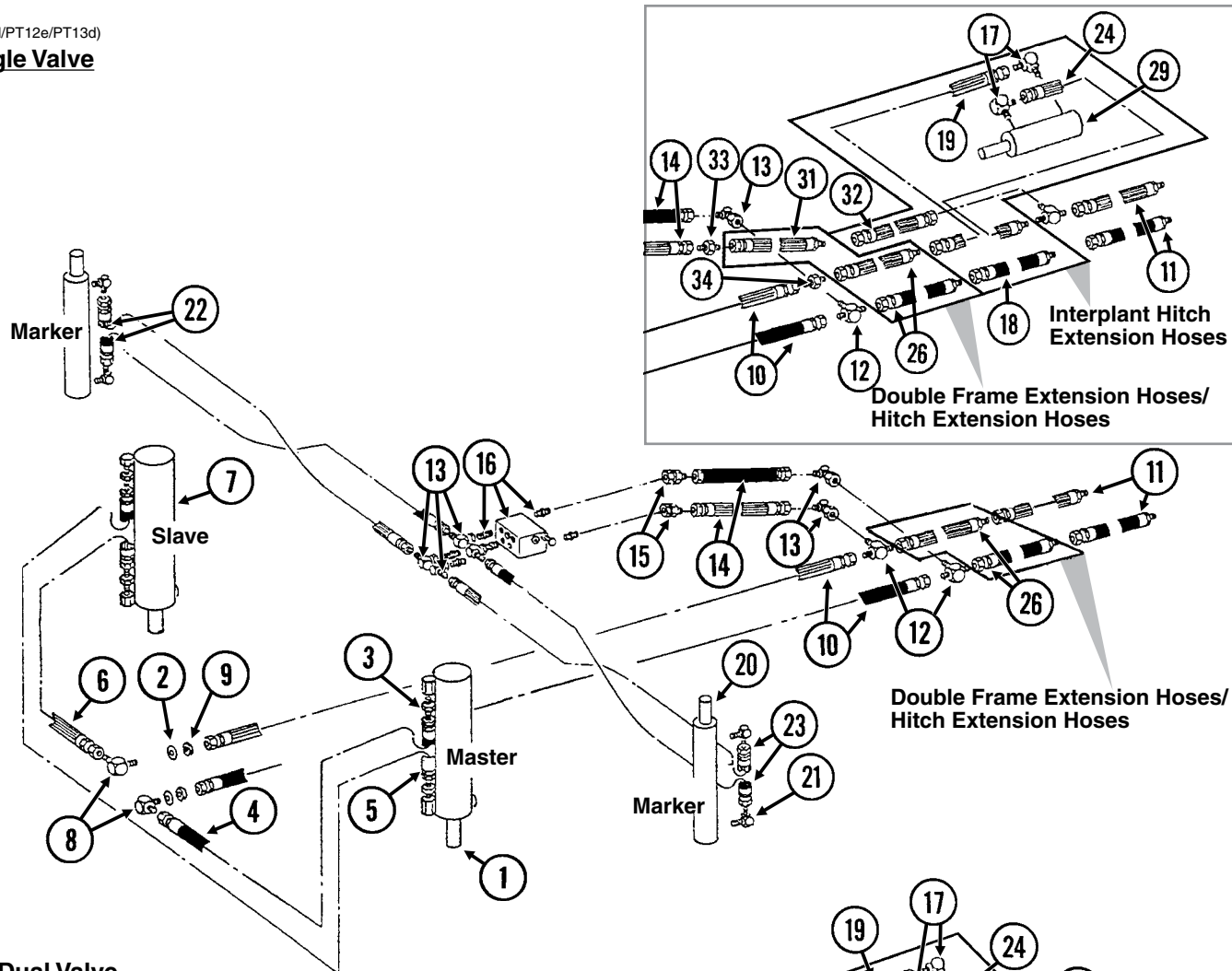
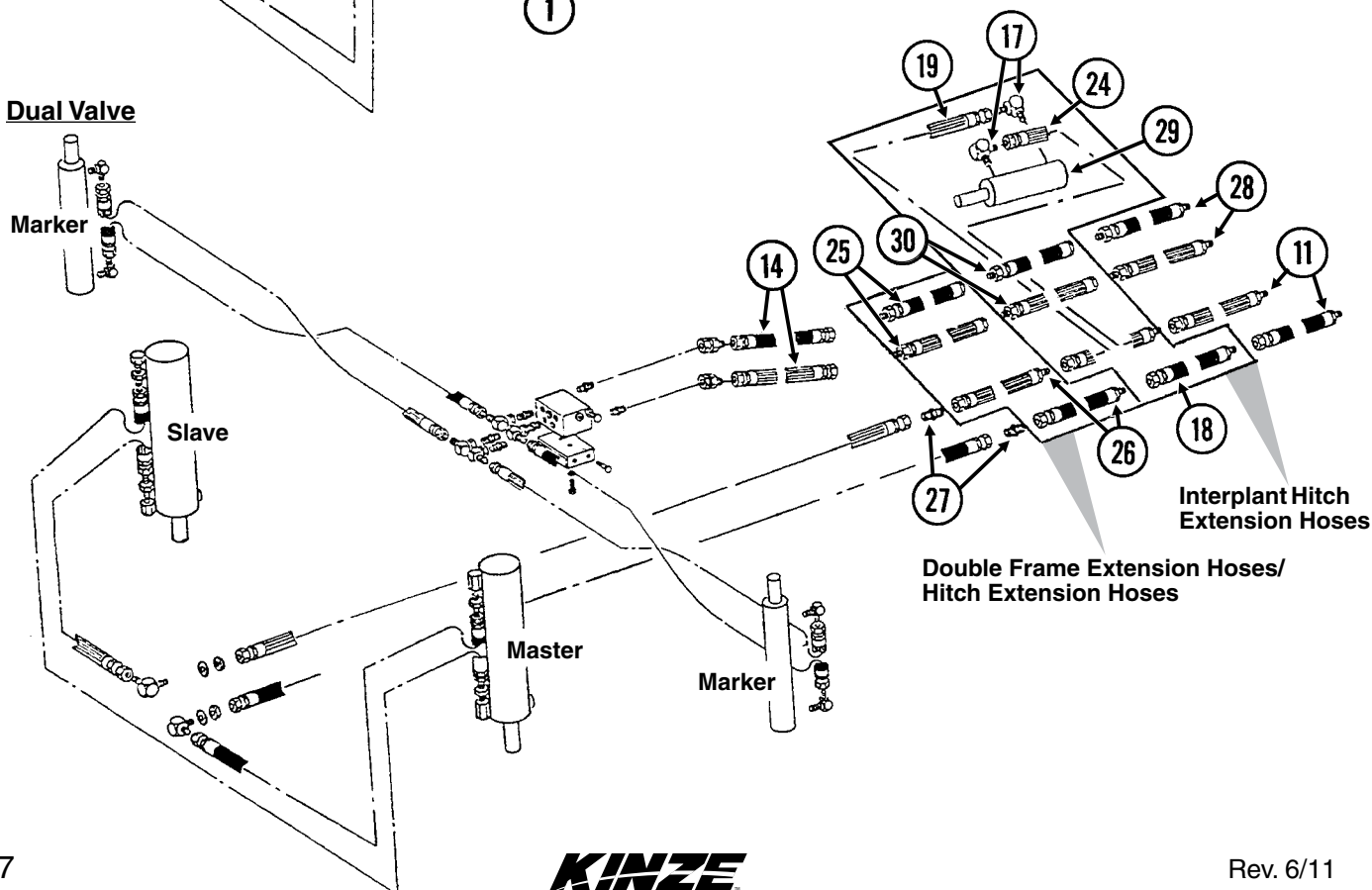
VVB025/PHS035(PT11a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	Valve Body (Non-Stock Item)
2	GR1047	2	Hex Socket Plug W/O-Ring
	GR1037	-	O-Ring
3	GR1044	3	7/16" Check Ball
4	GR1033	1	Detent Spring
5	GR1032	2	Port Adapter W/O-Ring
	GR1045	-	O-Ring
6	*G6400-06	4	Connector W/O-Ring, 9/16"-18 Male 37° JIC To 9/16"-18 O-Ring
	GR1045	-	O-Ring
7	GR1034	1	Hex Socket Plug W/O-Ring
	GR1035	-	O-Ring
8	GR1036	2	Spring
9	GR1043	2	1/4" Steel Ball
10	---	-	Spool (Non-Stock Item)
11	GR1041	2	Teflon BU Ring
12	GR1042	2	Adjustment Screw
13	GR1040	2	O-Ring
14	GR1046	2	Compression Spring
15	GR1039	2	Spring Pin
16	GR1038	2	Needle
17	GR1048	2	Hex Jam Nut, 1/2"-20
18	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	2	Washer, 3/8" SAE
	G10229	2	Lock Washer, 3/8"
19	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	2	Lock Washer, 3/8"
20	GD10223	1	Mounting Angle
21	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	2	Washer, 3/8" SAE
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
22	GD10224	1	Valve Mounting Angle
A	GA5552	-	Valve Assembly Complete (Items 1-17)
B	GA5572	-	Flow Control Portion Only (Items 11-17)

*Not used on sizes with 3/8" hoses.

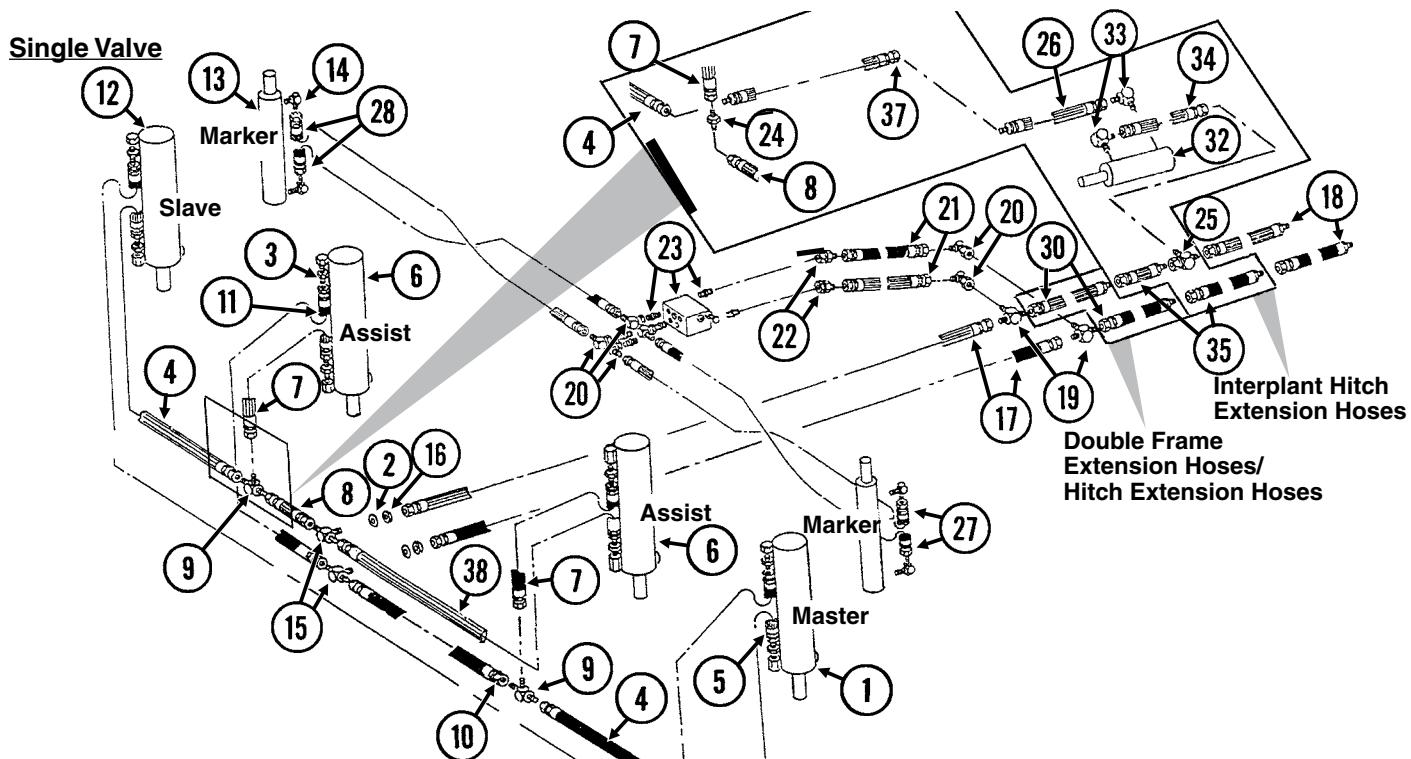
(PT12d/PT12e/PT13d)

Single Valve**Dual Valve**

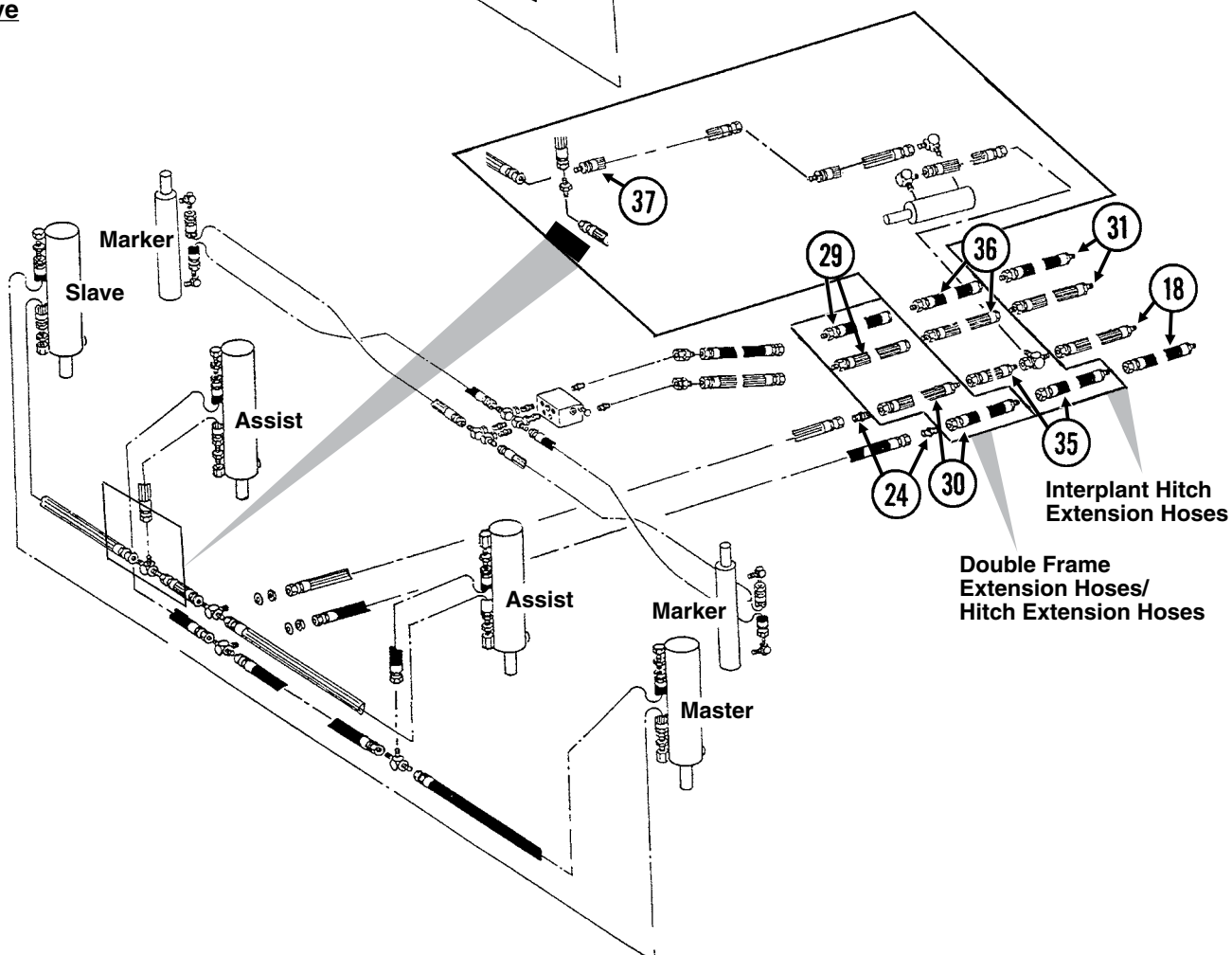
ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Master Lift Cylinder" on page P68
2	G10215	2	Machine Bushing, 3/4", 14 Gauge
3	G6400-08 GR1037	4 -	Connector W/O-Ring, 3/4"-16 Male JIC To O-Ring O-Ring
4	*A1018 *A1020	1 -	Hose Assembly, 3/8" x 40", 4 Row 30" Hose Assembly, 3/8" x 48", 4 Row 36"/38"
5	*A3113 *A3136	1 -	Hose Assembly, 3/8" x 84", 4 Row 30" Hose Assembly, 3/8" x 100", 4 Row 36"/38"
6	*A1020 *A1021	1 -	Hose Assembly, 3/8" x 48", 4 Row 30" Hose Assembly, 3/8" x 56", 4 Row 36"/38"
7	---	-	See "Slave Lift Cylinder" on page P69
8	G2701-08	2	Bulkhead Elbow, 90°, 3/4"-16 Male JIC
9	G306-08	2	Lock Nut, 3/4"-16
10	*A1076	2	Hose Assembly, 3/8" x 30"
11	*A3135	2	Hose Assembly, 3/8" x 100"
12	G2603-08-08-06	2	Tee, 3/4"-16 Male JIC To 1/16"-18 JIC
13	G6500-06	-	Swivel Elbow, 90°, 1/16"-18 Male JIC To Female
14	*A1138	2	Hose Assembly, 1/4" x 29"
15	G6502-06	2	Swivel Elbow, 45°, 1/16"-18 Male JIC To Female
16	---	-	See "Row Marker Sequencing/Flow Control Valve" on page P75
17	G6801-08 GR1037	2 -	Elbow W/O-Ring, 90°, 3/4"-16 Male JIC To O-Ring O-Ring
18	*A3211	1	Hose Assembly, 3/8" x 66", W/Interplant Package
19	*A1020	1	Hose Assembly, 3/8" x 48", W/Interplant Package
20	---	-	See "Row Marker Cylinder, 4 Row 30"/36"/38" and 6 Row 30"" on page P71
21	G6801-06-08 GR1037	4 -	Elbow W/O-Ring, 90°, 1/16"-18 Male JIC To 3/4"-16 O-Ring O-Ring
22	*A1102 *A1171	2 -	Hose Assembly, 1/4" x 95", 4 Row 30" Hose Assembly, 1/4" x 108", 4 Row 36"/38"
23	*A1170 *A1150	2 -	Hose Assembly, 1/4" x 90", 4 Row 30" Hose Assembly, 1/4" x 103", 4 Row 36"/38"
24	*A1076	1	Hose Assembly, 3/8" x 30", W/Interplant Package
25	*A1182 *A1177	- -	Hose Assembly, 1/4" x 30", W/Double Frame Package Hose Assembly, 1/4" x 24", W/Hitch Extensions
26	*A3142 *A3147	- -	Hose Assembly, 3/8" x 30", W/Double Frame Package Hose Assembly, 3/8" x 24", W/Hitch Extensions
27	G2403-08	2	Union, 3/4"-16 Male JIC
28	*A1173	2	Hose Assembly, 1/4" x 100"
29	---	-	See "Interplant Lift Cylinder" on page P70
30	*A1179	2	Hose Assembly, 1/4" x 56", W/Interplant Package
31	*A1182	1	Hose Assembly, 1/4" x 30", W/Double Frame Package
32	*A1153	1	Hose Assembly, 1/4" x 56", W/Interplant Package
33	G2403-06	1	Union, 1/16"-18 Male JIC, W/Interplant Package
34	G2403-08	1	Union, 3/4"-16 Male JIC, W/Interplant Package

* Hydraulic hose is not stocked by Kinze Repair Parts.

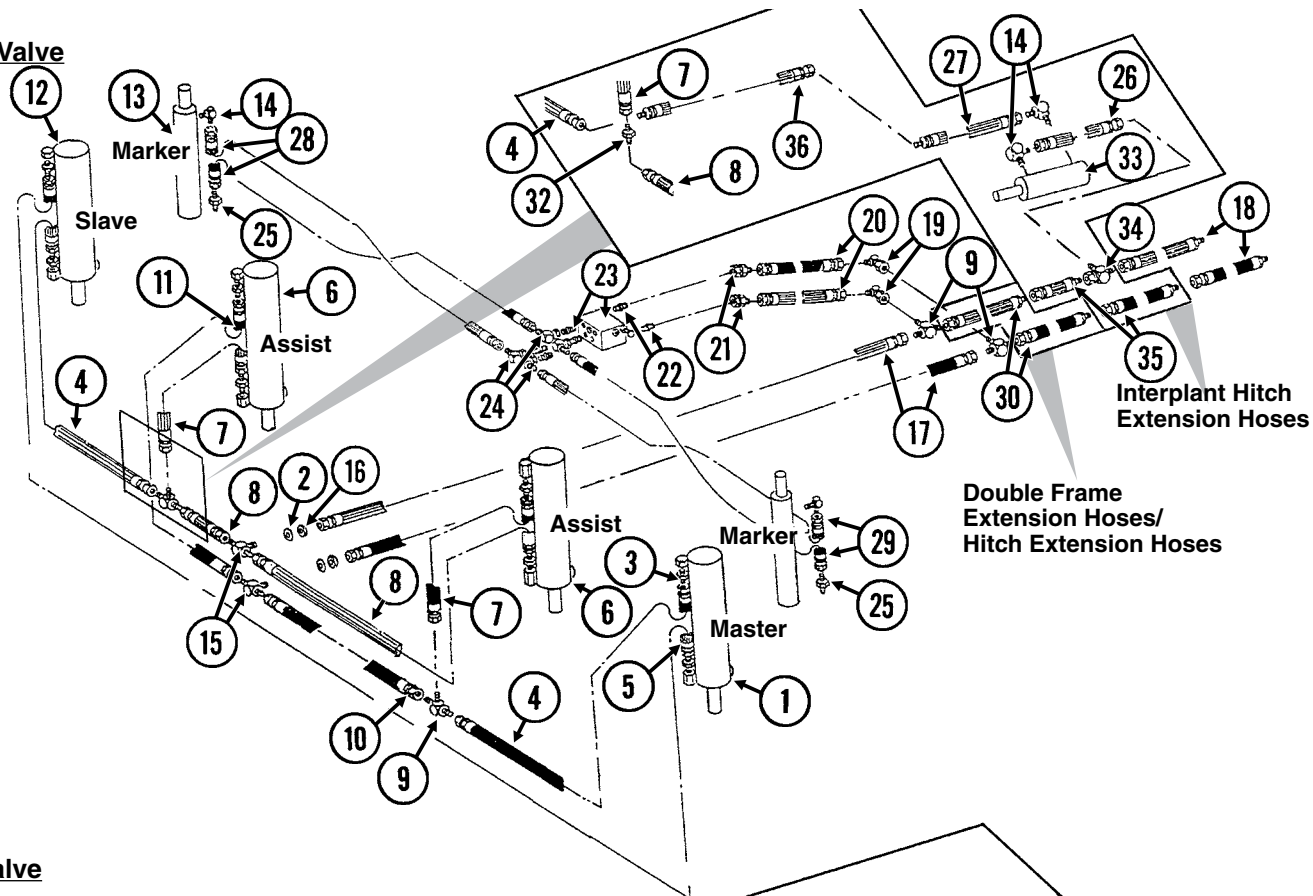
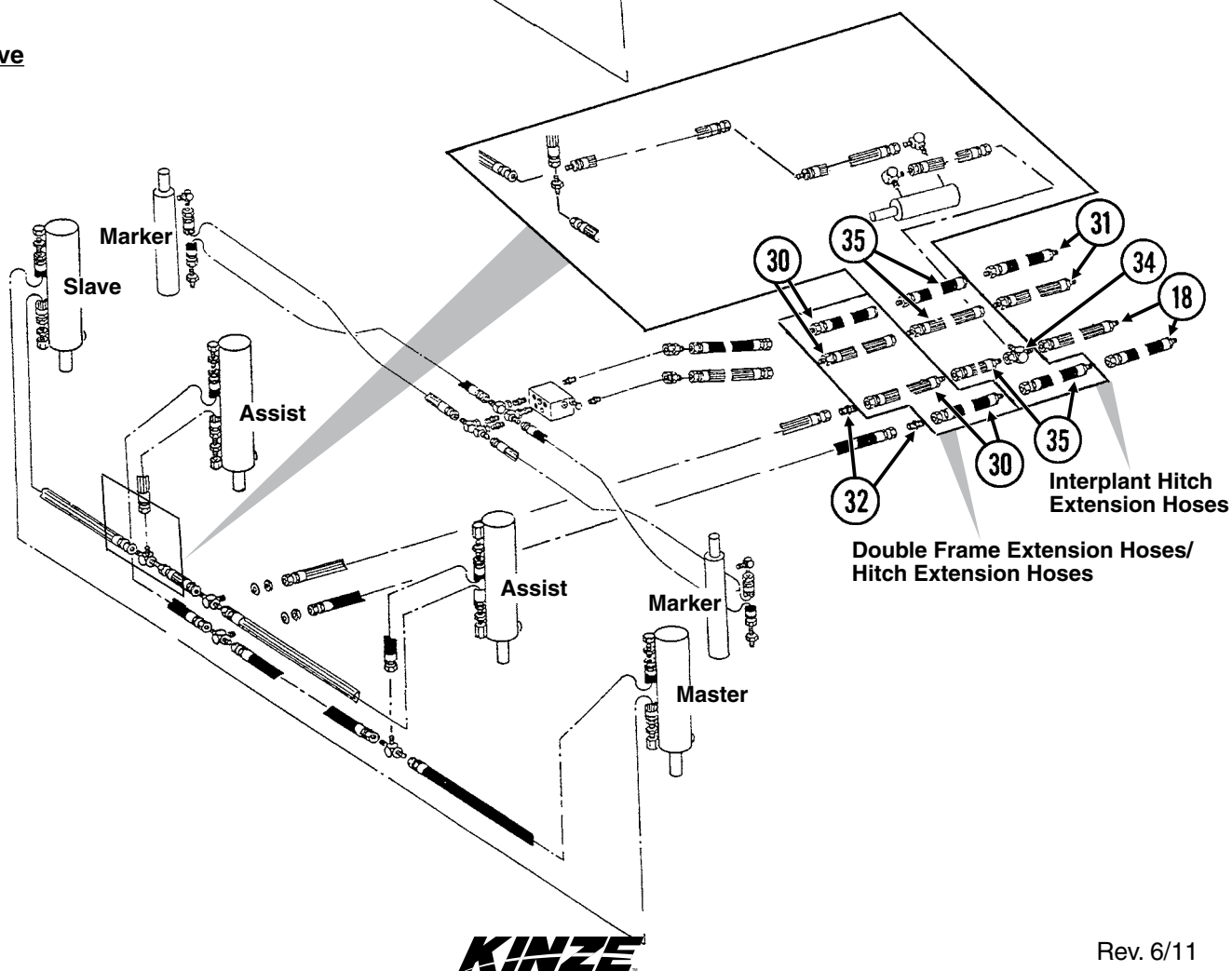
Single Valve



Dual Valve



ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Master Lift Cylinder" on page P68
2	G10215	2	Machine Bushing, 3/4", 14 Gauge
3	G6400-08 GR1037	8 -	Connector W/O-Ring, 3/4"-16 Male JIC To O-Ring O-Ring
4	*A1018	2	Hose Assembly, 3/8" x 40"
5	*A3115	1	Hose Assembly, 3/8" x 146"
6	---	-	See "Lift Assist Cylinder, 6 Row 30"/36"/38" and 8 Row 30"" on page P70
7	*A1000	2	Hose Assembly, 3/8" x 15"
8	*A3119	1	Hose Assembly, 3/8" x 36"
9	G2603-08	2	Tee, 3/4"-16 Male JIC
10	*A1086	1	Hose Assembly, 3/8" x 28"
11	*A1019	1	Hose Assembly, 3/8" x 44"
12	---	-	See "Slave Lift Cylinder" on page P69
13	---	-	See "Row Marker Cylinder, 4 Row 30"/36"/38" and 6 Row 30"" on page P71
14	G6801-06-08 GR1037	4 -	Elbow W/O-Ring, 90°, 9/16"-18 Male JIC To 3/4"-16 O-Ring O-Ring
15	G2703-08	2	Bulkhead Tee, 3/4"-16 Male JIC
16	G306-08	2	Lock Nut, 3/4"-16
17	*A1076	2	Hose Assembly, 3/8" x 30"
18	*A3135	2	Hose Assembly, 3/8" x 100"
19	G2603-08-08-06	2	Tee, 3/4"-16 Male JIC To 9/16"-18 JIC
20	G6500-06	2	Swivel Elbow, 90°, 9/16"-18 Male JIC To Female
21	*A1138	2	Hose Assembly, 1/4" x 29"
22	G6502-06	2	Swivel Elbow, 45°, 9/16"-18 Male JIC To Female
23	---	-	See "Row Marker Sequencing/Flow Control Valve" on page P75
24	G2403-08	1	Union, 3/4"-16 Male JIC
25	G6602-08	1	Swivel Tee, 3/4"-16 JIC
26	*A3208	1	Hose Assembly, 3/8" x 140", W/Interplant Package
27	*A1168	2	Hose Assembly, 1/4" x 120"
28	*A1105	2	Hose Assembly, 1/4" x 125"
29	*A1182	-	Hose Assembly, 1/4" x 30", W/Double Frame Package
	*A1177	-	Hose Assembly, 1/4" x 24", W/Hitch Extensions
30	*A3142	-	Hose Assembly, 3/8" x 30", W/Double Frame Package
	*A3147	-	Hose Assembly, 3/8" x 24", W/Hitch Extensions
31	*A1173	2	Hose Assembly, 1/4" x 100"
32	---	-	See "Interplant Lift Cylinder" on page P68
33	G6801-08 GR1037	2 -	Elbow W/O-Ring, 90°, 3/4"-16 Male JIC To O-Ring O-Ring
34	*A1076	1	Hose Assembly, 3/8" x 30", W/Interplant Package
35	*A3150	2	Hose Assembly, 3/8" x 56", W/Interplant Package
36	*A1179	2	Hose Assembly, 1/4" x 56", W/Interplant Package
37	*A3142	1	Hose Assembly, 3/8" x 30", W/Interplant Package (Double Frame Only)
38	*A3175	1	Hose Assembly, 3/8" x 38"
* Hydraulic hose is not stocked by Kinze Repair Parts.			

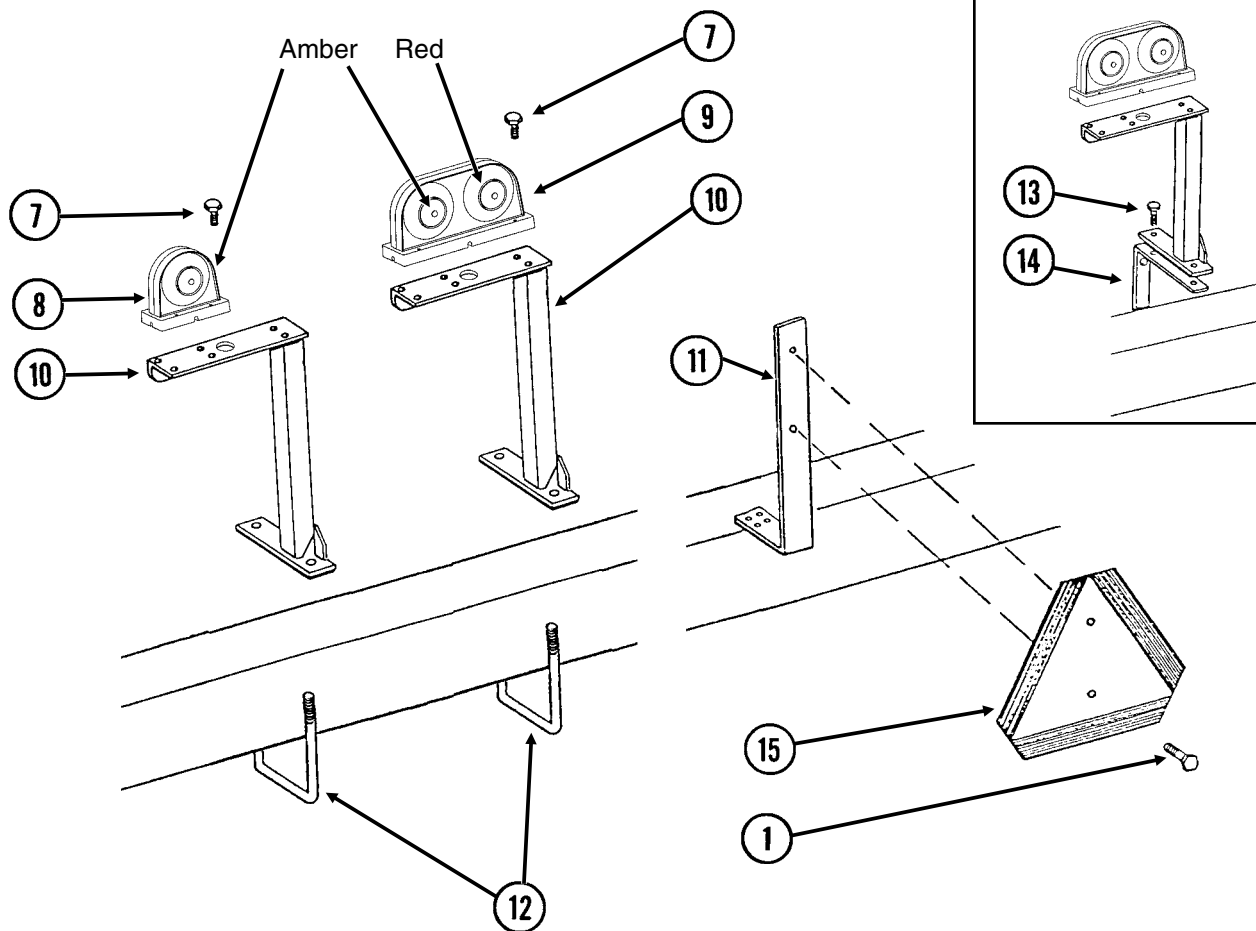
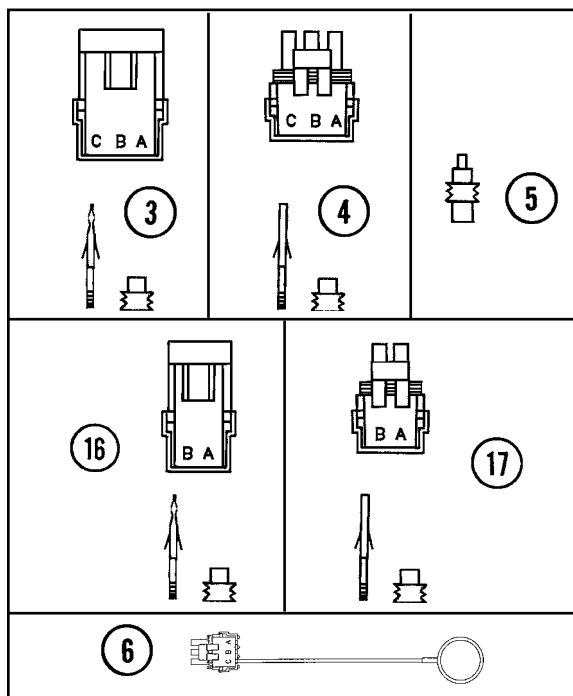
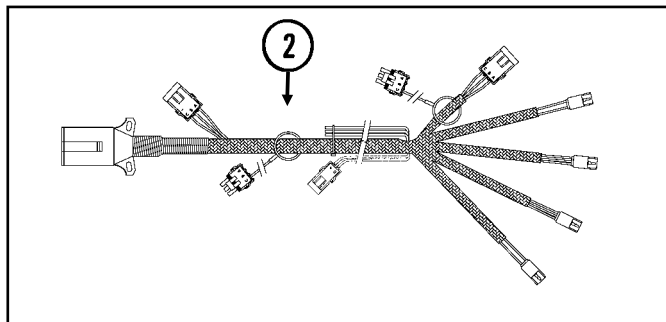
Single ValveDual Valve

Hydraulic System, 6 Row 36"/38" and 8 Row 30" Two-Fold Low Profile Row Marker

ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Master Lift Cylinder" on page P68
2	G10215	2	Machine Bushing, 3/4", 14 Gauge
3	G6400-08 GR1037	8 -	Connector W/O-Ring, 3/4"-16 Male JIC To O-Ring O-Ring
4	*A1020 *A1018	2 -	Hose Assembly, 3/8" x 48", 6 Row 36"/38" Hose Assembly, 3/8" x 40", 8 Row 30"
5	*A3132 *A1054	1 -	Hose Assembly, 3/8" x 178", 6 Row 36"/38" Hose Assembly, 3/8" x 204", 8 Row 30"
6	---	-	See "Lift Assist Cylinder, 6 Row 30"/36"/38" and 8 Row 30"" on page P70
7	*A1000	2	Hose Assembly, 3/8" x 15"
8	*A1019 *A1055	2 -	Hose Assembly, 3/8" x 44", 6 Row 36"/38" Hose Assembly, 3/8" x 66", 8 Row 30"
9	G2603-08	2	Tee, 3/4"-16 Male JIC
10	*A1044 *A1021	1 -	Hose Assembly, 3/8" x 34", 6 Row 36"/38" Hose Assembly, 3/8" x 56", 8 Row 30"
11	*A3128 *A1039	1 -	Hose Assembly, 3/8" x 52", 6 Row 36"/38" Hose Assembly, 3/8" x 76", 8 Row 30"
12	---	-	See "Slave Lift Cylinder" on page P69
13	---	-	See "Row Marker Cylinder, 6 Row 36"/38" and 8 Row 30"" on page P72
14	G6801-08 GR1037	2 -	Elbow W/O-Ring, 90°, 3/4"-16 Male JIC To O-Ring O-Ring
15	G2703-08	2	Bulkhead Tee, 3/4"-16 Male JIC
16	G306-08	2	Lock Nut, 3/4"-16
17	*A1076	2	Hose Assembly, 3/8" x 30"
18	*A3135	2	Hose Assembly, 3/8" x 100"
19	G6500-08	2	Swivel Elbow, 90°, 3/4"-16 Male JIC To Female
20	*A1079	2	Hose Assembly, 3/8" x 24"
21	G6502-08	2	Swivel Elbow, 45°, 3/4"-16 Male JIC To Female
22	G6400-08-06 GR1045	2 -	Connector W/O-Ring, 3/4"-16 Male JIC To 1/2"-18 O-Ring O-Ring
23	---	-	See "Row Marker Sequencing/Flow Control Valve" on page P75
24	G6500-08-06	2	Swivel Elbow, 90°, 3/4"-16 Male JIC To 1/2"-18 Female
25	G6400-08 GR1037 G6400-08-04 GR1465	2 - - -	Connector W/O-Ring, 3/4"-16 Male JIC To O-Ring O-Ring Connector W/O-Ring, 3/4"-16 Male JIC To 7/16"-20 O-Ring O-Ring
26	*A1076	1	Hose Assembly, 3/8" x 30", W/Interplant Package
27	*A3208 *A3209	1 1	Hose Assembly, 3/8" x 140", W/Interplant Package, 6 Row 36"/38" Hose Assembly, 3/8" x 170", W/Interplant Package, 8 Row 30"
28	*A1013 *A1090	2 -	Hose Assembly, 3/8" x 150", 6 Row 36"/38" Hose Assembly, 3/8" x 162", 8 Row 30"
29	*A3137 *A3114	2 -	Hose Assembly, 3/8" x 140", 6 Row 36"/38" Hose Assembly, 3/8" x 156", 8 Row 30"
30	*A3142 *A3147	- -	Hose Assembly, 3/8" x 30", W/Double Frame Package Hose Assembly, 3/8" x 24", W/Hitch Extensions
31	*A3143	2	Hose Assembly, 3/8" x 100"
32	G2403-08	-	Union, 3/4"-16 Male JIC
33	---	-	See "Interplant Lift Cylinder" on page P70
34	G6602-08	1	Swivel Tee, 3/4"-16 JIC
35	*A3150	2-4	Hose Assembly, 3/8" x 56", W/Interplant Package
36	*A3142	1	Hose Assembly, 3/8" x 30", W/Interplant Package (Double Frame Only)

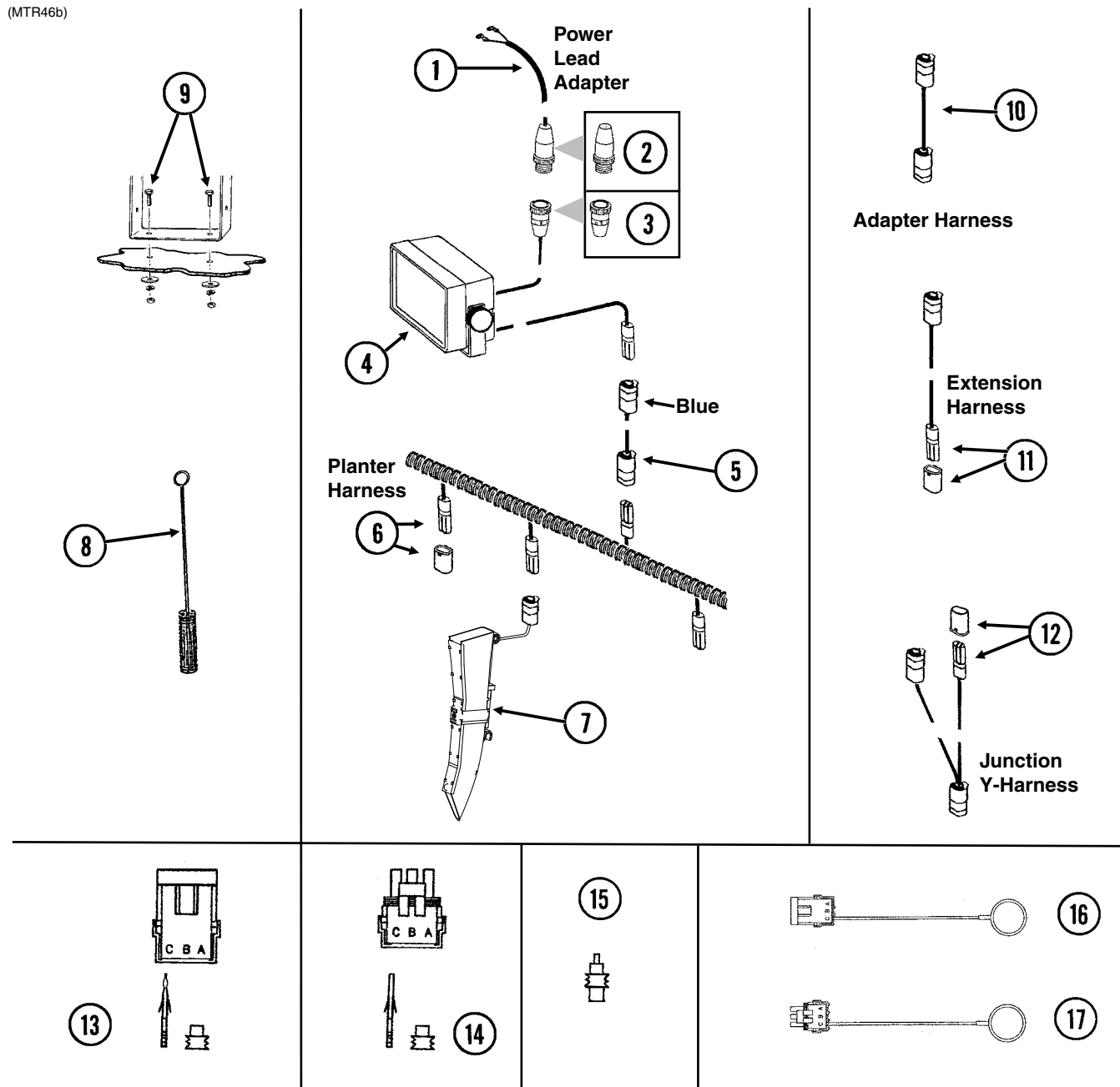
* Hydraulic hose is not stocked by Kinze Repair Parts.

PFA052/PFA055(ELC9/A9206a/MTR27a/ELC8/PT49f)



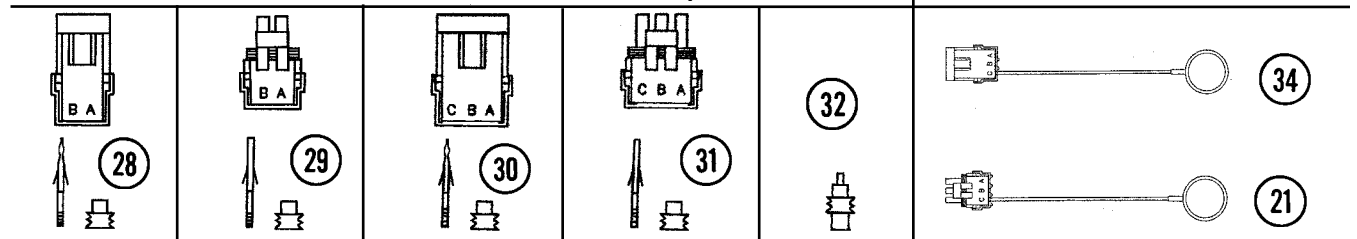
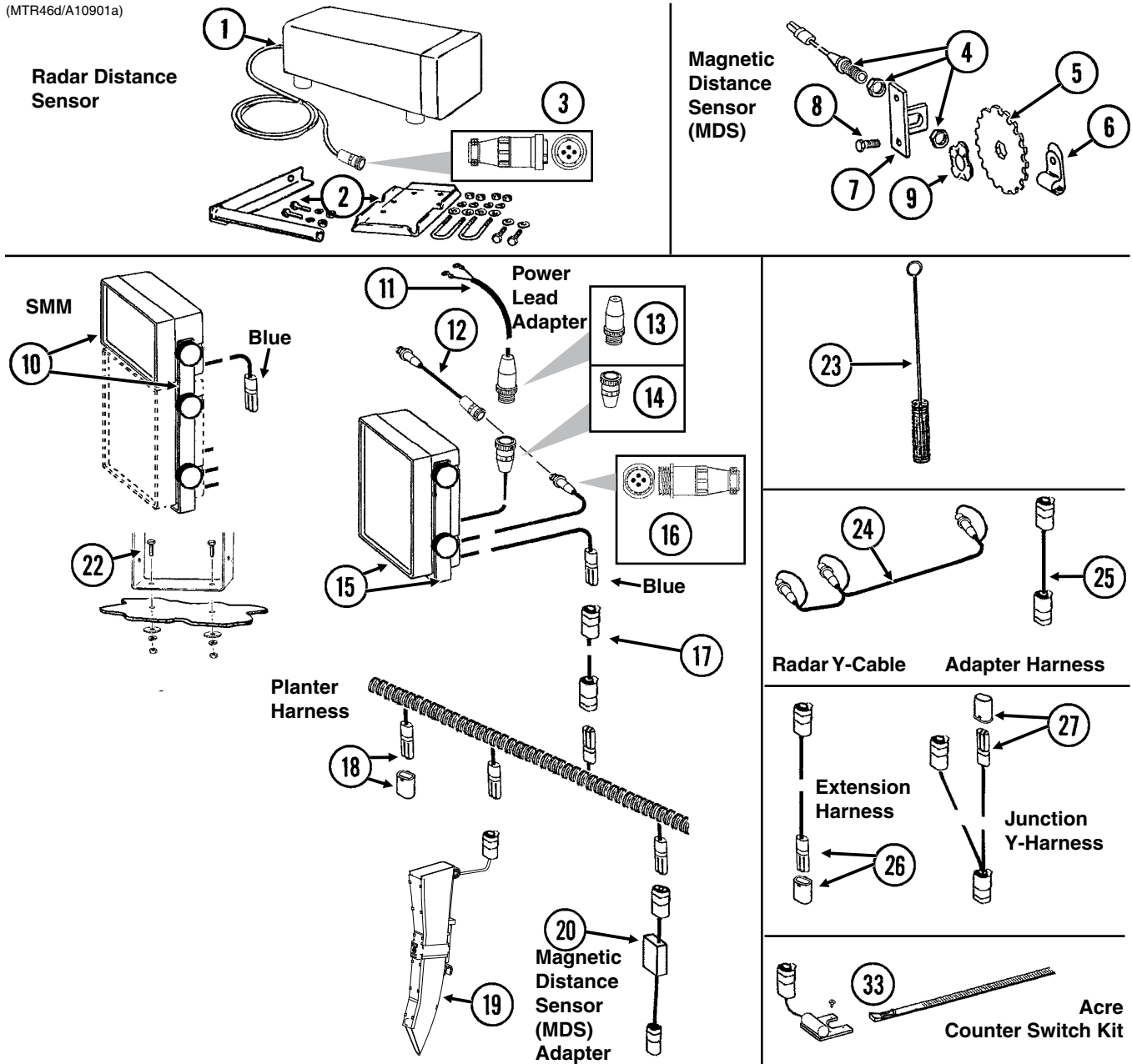
ITEM	PART NO.	QTY.	DESCRIPTION
1	G10023	2	Hex Head Cap Screw, 1/4"-20 x 3/4"
	G10110	2	Lock Nut, 1/4"-20, Grade B
2	GA9207	-	Wiring Harness W/7 Terminal Female Connector, 329", 4 Row 30"/36"/38"" and 6 Row 30" (4 Light Connections)
	GA9206	-	Wiring Harness W/7 Terminal Female Connector, 396", 6 Row 36"/38" and 8 Row 30" (4 Light Connections)
	GA5385	-	7 Terminal Female Connector
3	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
4	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
5	GD11089	-	Sealing Plug
6	GA8047	-	Dust Plug (Black)
7	G10064	8-16	Hex Head Cap Screw, 1/4"-20 x 1"
	G11385	8-16	Flat Washer, 1/4" SAE
	G10110	8-16	Lock Nut, 1/4"-20, Grade B
8	GA6701	1	Single Amber Light Assembly
	GR1956	-	Amber Lens Kit, Includes: (1) Amber Lens, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6701)
	GR1208	-	Bulb (Included W/GA6701)
9	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 or GA6700)
	GR1957	-	Red Lens Kit, Includes: (1) Red Lens, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6699 or GA6700)
	GR1958	-	Black Cover Kit, Includes: (1) Black Cover, (1) Gasket, and (3) Hex Head Cap Screws (Included W/GA6699 or GA6700)
	GR1208	-	Bulb
10	GA6823	1	Bracket, L.H. (Shown)
	GA6824	1	Bracket, R.H.
11	GD7152	1	Bracket
12	GD7145	2-4	U-Bolt, 7" x 7" x 1/2"-13
	G10228	4-8	Lock Washer, 1/2"
	G10102	4-8	Hex Nut, 1/2"-13
13	G10039	-	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
	G10228	-	Lock Washer, 1/2"
	G10102	-	Hex Nut, 1/2"-13
14	GD8304	-	Bracket (Used To Mount Light Bracket When HD Single Disc Fertilizer Openers Are Used)
15	GD2199	1	SMV Sign
16	G1K321	-	2-Pin Female Connector Kit (Black), Includes: (3) 2-Pin Female Housings, (6) Pin Contacts, (6) Seals
17	G1K320	-	2-Pin Male Connector Kit (Black), Includes: (3) 2-Pin Male Housings, (6) Socket Contacts, (6) Seals

(MTR46b)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7856	1	Power Lead Adapter
2	G1K267	-	Power Lead Adapter Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (3) Male Terminal Pins
3	G1K268	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (1) Lock Ring, (3) Female Terminal Pins
4	GA10570	1	KPM I Backlit Console W/Mounting Bracket, Fuse Holder and Fuse, Power Lead Adapter (Item 11), Brush (Item 23) and Dust Plug (Item 34)
	GR1390	-	Mounting Bracket, KPM I (Included W/GA10570)
	GR1392	-	Console Mounting Bracket Hardware Package (Includes 2 Knobs and 1/4" Hardware) (Included W/GA10570)
	GA10601	-	Fuse Holder
	GD7639	-	Fuse
5	---	-	Included In Planter Wiring Harness, See Item 2, on page P83
6	GA8021	-	Planter Harness W/Dust Caps, 4 Row (7 Connectors)
	GA8022	-	Planter Harness W/Dust Caps, 6 Row (9 Connectors)
	GA7850	-	Planter Harness W/Dust Caps, 8 Row (12 Connectors)
	GD11993	-	Dust Cap (Included W/GA8021, GA8022, or GA7850)
7	GA21515	-	Seed Tube W/Computerized Sensor (Shown)
	GA20902	-	Seed Tube (With Holes For Sensor Installation) (Included W/GA21515)
8	GR0594	-	Brush
9	G10022	2	Hex Head Cap Screw, 1/4"-20 x 1/2"
	G11385	2	Flat Washer, 1/4" SAE
	G10227	2	Lock Washer, 1/4"
	G10103	2	Hex Nut, 1/4"-20
10	GA7857	-	Adapter Harness, 1'
11	GA7854	-	Extension Harness W/Dust Cap, 15'
	GA7855	-	Extension Harness W/Dust Cap, 30'
	GD11993	-	Dust Cap (Included W/GA7854 or GA7855)
12	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap (Included W/GA7853)
13	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
14	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
15	GD11089	-	Sealing Plug
16	GA8046	-	Dust Plug (Black)
	GA9978	-	Dust Plug (Blue)
17	GA8047	-	Dust Plug (Black)
	GA9979	-	Dust Plug (Blue)

(MTR46d/A10901a)

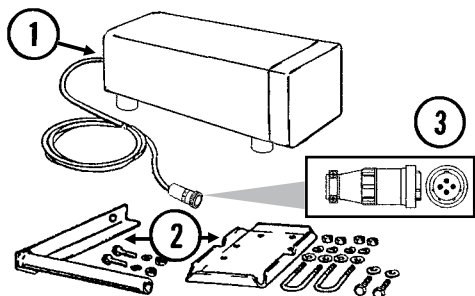


ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7858	-	Radar Distance Sensor W/20' Cable
2	GA8026	-	Radar Sensor Pipe/Mounting Bracket Package
3	G1K323	-	4-Pin Connector Kit W/Female Housing, Includes: (4) Pins and (1) Cable Clamp
4	GA5600	1	Magnetic Distance Sensor
5	GD8751	-	Magnetic Distance Sensor Pulse Wheel
6	GD6291	-	Insulated Clamp, 3/8"
7	GD8770	1	Bracket

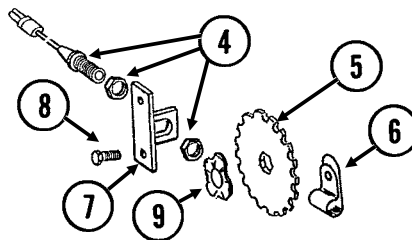
ITEM	PART NO.	QTY.	DESCRIPTION
8	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
9	GD8771	1	Spring Wave Washer
10	GA9857	1	SMM Backlit Console W/Mounting Bracket and Dust Plug (Item 36)
	GR1631	-	Mounting Bracket, KPM II Stack-Mode and SMM Consoles (Included W/GA9857)
	GR1632	-	Console Mounting Bracket Hardware Package (Includes 2 Knobs and 1/4" Hardware) (Included W/GA9857)
11	GA7856	1	Power Lead Adapter
12	GA9144	-	Monitor/Radar Adapter Cable, 10"
13	G1K267	-	Power Lead Adapter 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	GA10575	-	KPM II Backlit Console W/Mounting Bracket, Fuse Holder and Fuse, Power Lead Adapter (Item 11), Brush (Item 23), Dust Plug (Item 34) and Monitor/Radar Adapter, 10" (Item 12)
	GR1391	-	Mounting Bracket, KPM II (Included W/GA10575)
	GR1393	-	Console Mounting Bracket Hardware Package (Includes 4 Knobs and 1/4" Hardware) (Included W/GA10575)
	GA10601	-	Fuse Holder
	GD7639	-	Fuse
16	G1K322	-	4-Pin Connector Kit W/Male Housing, (4) Female Socket Contacts and (1) Cable Clamp
17	---	-	Included In Planter Wiring Harness, See Item 2, on page P83
18	GA8021	-	Planter Harness W/Dust Caps, 4 Row (7 Connectors)
	GA8022	-	Planter Harness W/Dust Caps, 6 Row (9 Connectors)
	GA7850	-	Planter Harness W/Dust Caps, 8 Row (12 Connectors)
	GD11993	-	Dust Cap (Included W/GA8021, GA8022, and GA7850)
19	GA21515	-	Seed Tube W/Computerized Sensor
	GA20902	-	Seed Tube (With Holes For Sensor Installation) (Included W/GA20902)
20	GA7859	1	Magnetic Distance Sensor Adapter (Analog To Digital)
21	GA8047	-	Dust Plug (Black)
	GA9979	-	Dust Plug (Blue)
22	G10022	2	Hex Head Cap Screw, 1/4"-20 x 1/2"
	G11385	2	Flat Washer, 1/4" SAE
	G10227	2	Lock Washer, 1/4"
	G10103	2	Hex Nut, 1/4"-20
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	-	Extension Harness W/Dust Cap, 15'
	GA7855	-	Extension Harness W/Dust Cap, 30'
	GD11993	-	Dust Cap (Included W/GA7854, and GA7855)
27	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap (Included W/GD11993)
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	G1K249	-	Acre Counter Switch Kit
34	GA8046	-	Dust Plug (Black)
	GA9978	-	Dust Plug (Blue)
A	GA6147	-	Magnetic Distance Sensor and Mounting Package (Items 4-9)

(MTR46dd)

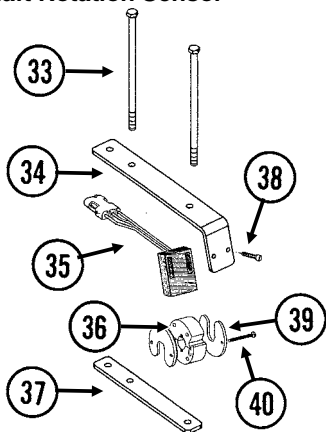
Radar Distance Sensor



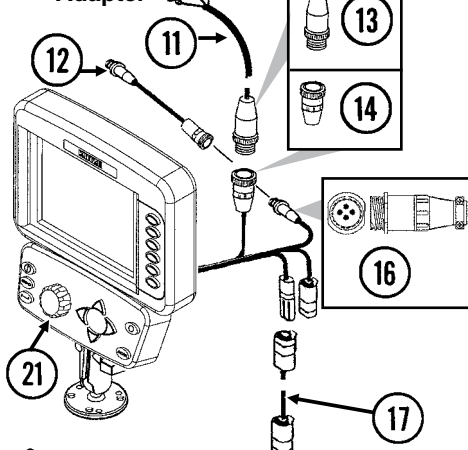
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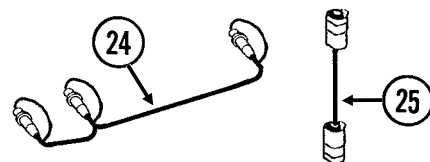
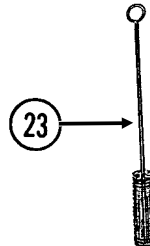
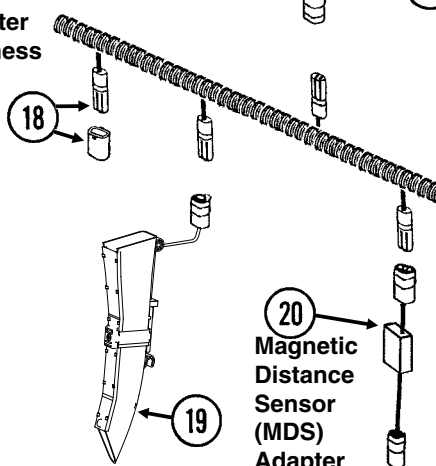
Shaft Rotation Sensor



Power Lead Adapter

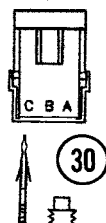
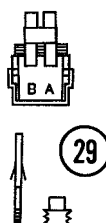
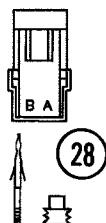
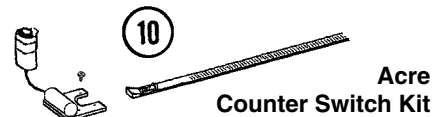
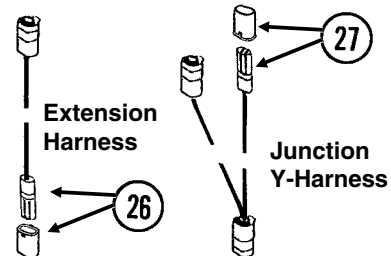


Planter Harness



Radar Y-Cable

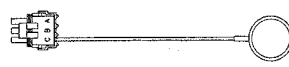
Adapter Harness



32



22

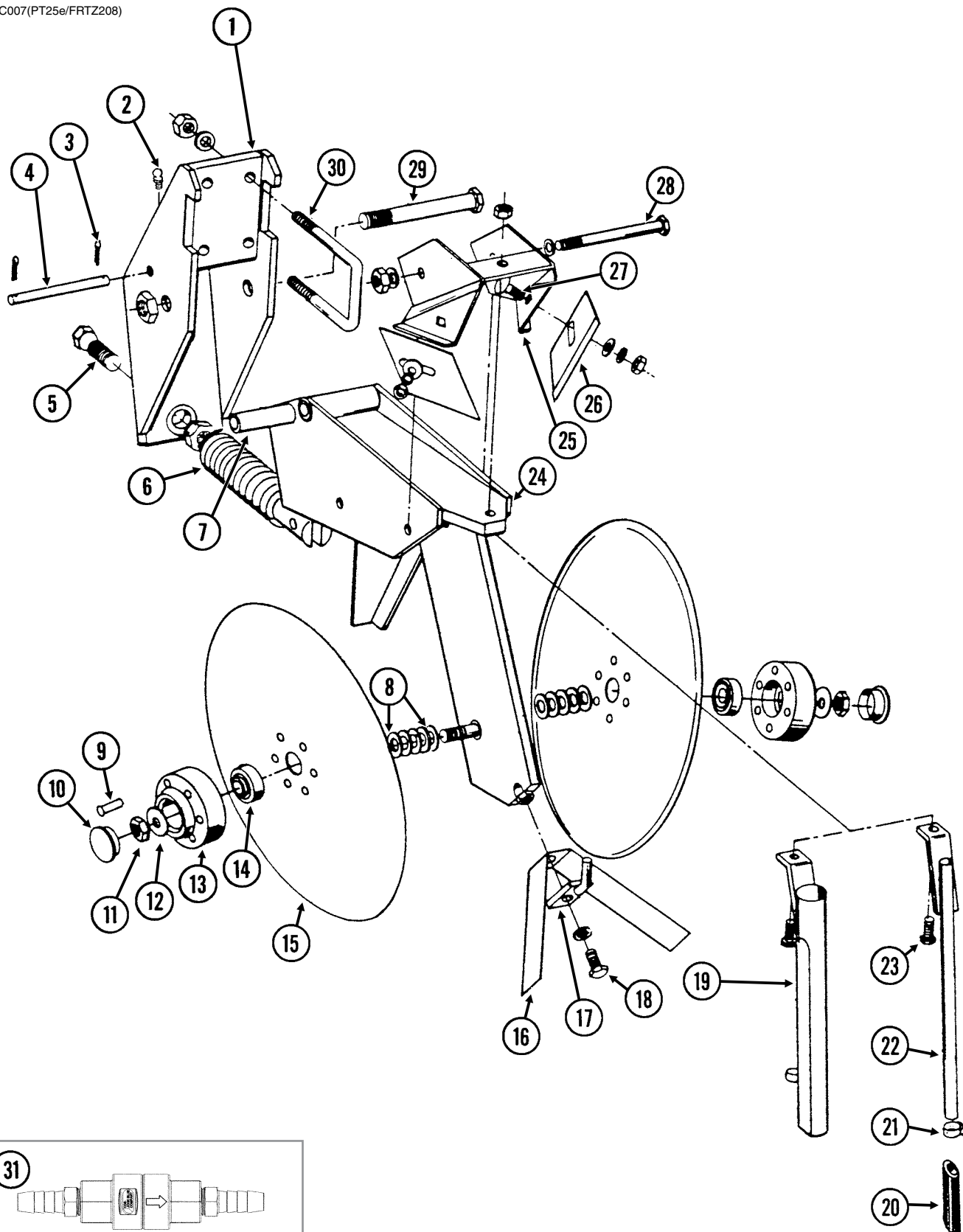


ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7858	-	Radar Distance Sensor W/20' Cable
2	GA8026	-	Radar Sensor Pipe/Mounting Bracket Package
3	G1K323	-	4-Pin Connector Kit W/Female Housing, Includes: (4) Pins and (1) Cable Clamp
4	GA5600	1	Magnetic Distance Sensor
5	GD8751	-	Magnetic Distance Sensor Pulse Wheel
6	GD13348	-	Insulated Clamp, 1 $\frac{1}{16}$ "
7	GD8770	1	Bracket
8	G10001	2	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1"
	G10229	2	Lock Washer, $\frac{3}{8}$ "
	G10101	2	Hex Nut, $\frac{3}{8}$ "-16
9	GD8771	1	Spring Wave Washer
10	G1K249	-	Acre Counter Switch Kit
11	GA7856	1	Power Lead Adapter
12	GA9144	-	Monitor/Radar Adapter Cable, 10"
13	G1K267	-	Power Lead Adapter 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, (4) Female Socket Contacts and (1) Cable Clamp
17	---	-	Included In Planter Wiring Harness, See Item 2, on page P83
18	GA8021	-	Planter Harness W/Dust Caps, 4 Row (7 Connectors)
	GA8022	-	Planter Harness W/Dust Caps, 6 Row (9 Connectors) (6 Row Mechanical)
	GA7850	-	Planter Harness W/Dust Caps, 8 Row (12 Connectors) (6 Row Vacuum, 8 Row Mechanical/Vacuum)
	GD11993	-	Dust Cap (Included W/GA8021, GA8022, and GA7850)
19	GA21515	-	Seed Tube W/Computerized Sensor
	GA20902	-	Seed Tube (With Holes For Sensor Installation) (Included W/GA21515)
20	GA7859	1	Magnetic Distance Sensor Adapter (Analog To Digital)
21	G8647x	1	KPM III Backlit Console W/Brush (Item 23), Dust Plug (Item 15), Console Mounting Bracket Hardware and Power Harness
	GA12403	-	Mounting Bracket Assembly, Includes: (2) Mounting Brackets, (2) Connector Halves, (1) Compression Spring, (1) Tension Knob, (1) $\frac{1}{4}$ "-20 x $1\frac{3}{4}$ " Hex Head Cap Screw, (1) $\frac{1}{4}$ " Plastic Washer, (1) $\frac{1}{4}$ " Steel Washer
	GR1762	-	Console Mounting Bracket Hardware Package, Includes: (3) No. 10-32 x $\frac{5}{8}$ " Hex Socket Pan Head Plated Screw, (3) $\frac{1}{4}$ " Plated Lock Washers (Included W/G8647X)
	GA16082	-	Power Harness (Included W/G8647X)
22	GA8047	-	Dust Plug (Black)
	GA9979	-	Dust Plug (Blue)
23	GR0594	-	Brush
24	GR0586	1	Radar Y-Cable (Used To Connect Radar Distance Sensor For Multiple
25	GA7857	-	Adapter Harness, 1'
26	GA7854	-	Extension Harness W/Dust Cap, 15'
	GA7855	-	Extension Harness W/Dust Cap, 30'
	GD11993	-	Dust Cap (Included W/GA7854 and GA7855)
27	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap (Included W/GA7853)
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

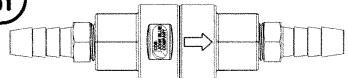
ITEM	PART NO.	QTY.	DESCRIPTION
30	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
	G1K362	-	3-Pin Female Connector Kit (Blue), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
31	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Pin Contacts, (9) Seals
	G1K363	-	3-Pin Male Connector Kit (Blue), Includes: (3) 3-Pin Male Housings, (9) Pin Contacts, (9) Seals
32	GD11089	-	Sealing Plug
33	G10686	4	Hex Head Cap Screw, 3/8"-16 x 8"
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
34	GD18118	2	Shaft Sensor Mount
35	GR1415	1	Rotation Sensor
36	GR1414	1	Actuator
37	GD18168	2	Mount
38	G11288	2	Pan Head Screw, No. 10-32 x 1 1/2"
	G10243	2	Washer, No. 10 SAE
	G10758	2	Hex Nut, No. 10-32
39	GD11474	2	Cover
40	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
A	GA6147	-	Magnetic Distance Sensor and Mounting Package (Items 4-9)
B	GR1763	-	KPM III Loaner (Display Only)
C	GA13521	-	Shaft Sensor Mounting Pkg. (Items 33, 34, and 37-40)
D	GA13522	-	Shaft Rotation Sensor (1 Sensor, 1 Actuator) (Items 35 and 36)

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FOC007(PT25e/FRTZ208)



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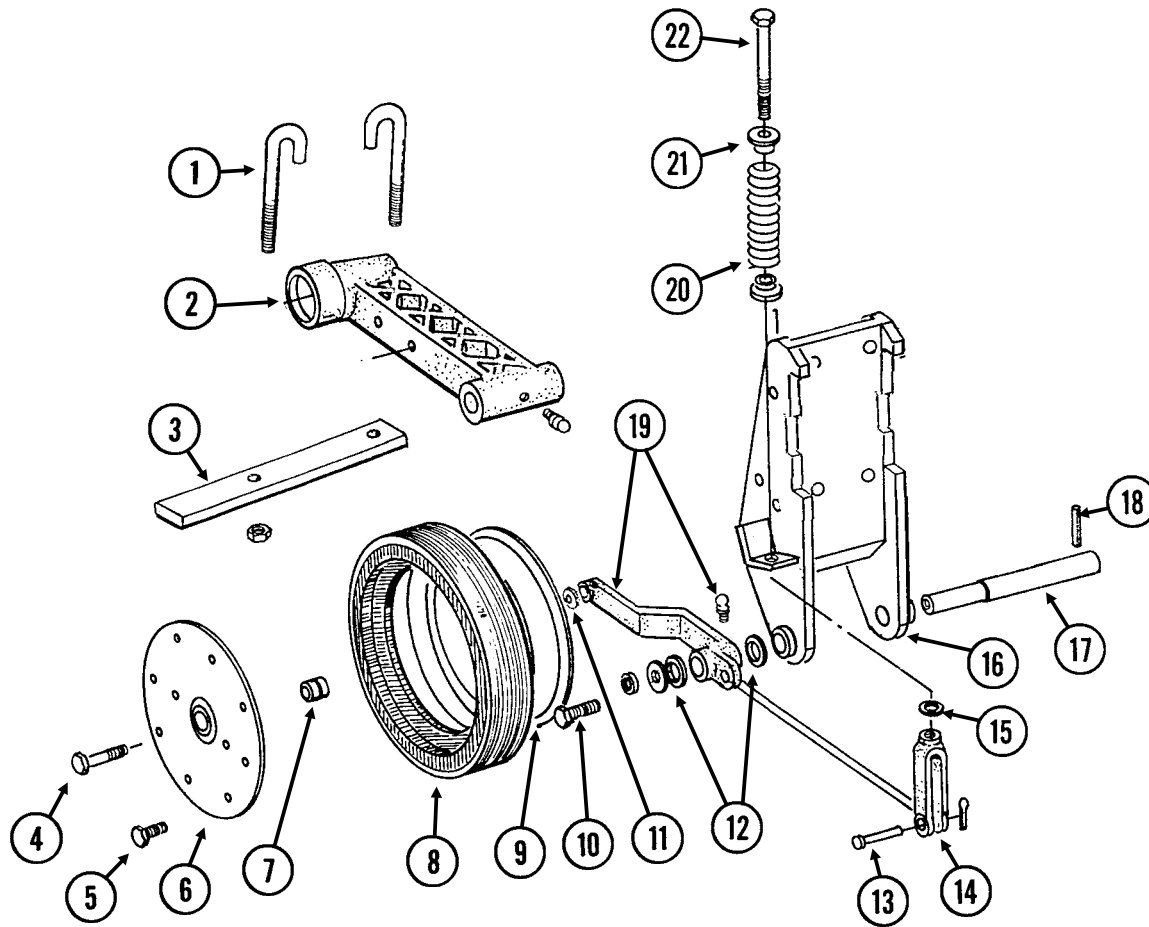
To Pump

To Opener

Optional - Liquid Fertilizer Only

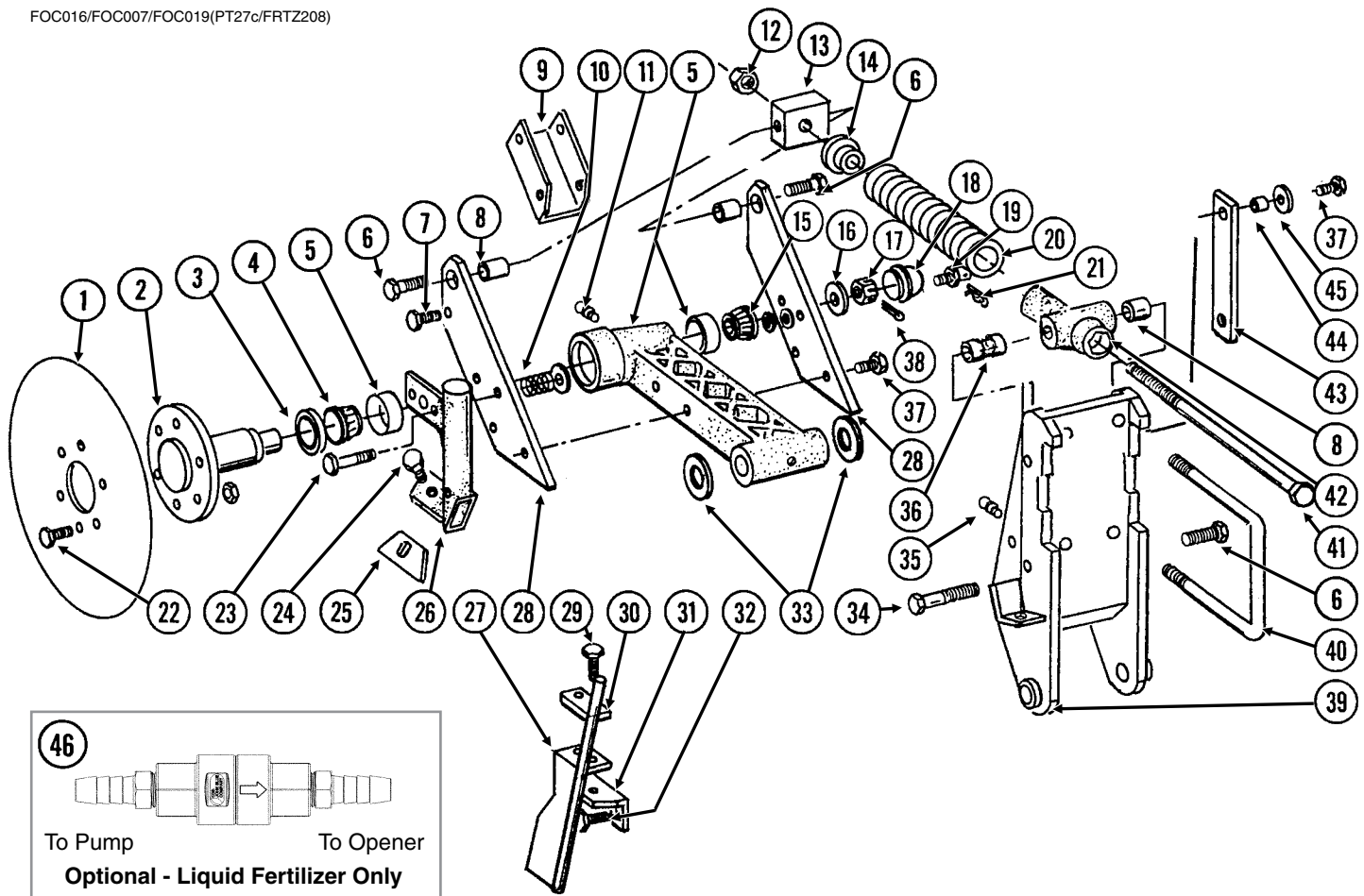
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GA8483	1	Bracket
2	G10938	1	Grease Fitting, 1/4"-28, Taper Threads
3	G10451	2	Cotter Pin, 1/8" x 1"
4	GD1657	1	Lockup Pin
5	GD0962	1	Hex Head Adjusting Bolt, 5/8"-18 x 3/4"
	G10499	1	Hex Jam Nut, 5/8"-18, Grade 2
6	GA0328	1	Spring
7	GD0487	1	Bushing, 41/64" I.D. x 3 1/2" Long
8	GD30725	-	Machine Bushing, 5/8" (.030" Thick)
9	G10542	12	Rivet, 1/4" x 1 5/16"
10	GD1132	2	Dust Cap
11	G10503	1	Hex Jam Nut, 5/8"-11, Grade 2
	G10504	1	Hex Jam Nut, 5/8"-11, L.H. Thread, Grade 2
12	G10204	2	Special Machine Bushing, 5/8" 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 1 1/2"
	G11386	1	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, 3/8"-16 x 1"
	G11387	2	Flat Washer, 3/8" SAE
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
28	G10045	1	Hex Head Cap Screw, 1/2"-13 x 4 1/2"
	G10111	1	Lock Nut, 1/2"-13
29	G10046	1	Hex Head Cap Screw, 5/8"-11 x 5"
	G10107	1	Lock Nut, 5/8"-11
30	GD1138	2	U-Bolt, 2 1/2" x 2 1/2" x 1 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
31	GA15416	1	Check Valve Assembly
	GA15415	1	Check Valve (Included W/GA15416)
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb (Included W/GA15416)
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, 1/2"-13 Lock Washer, 1/2" Hex Nut, 1/2"-13
2	---	-	See "HD Single Disc Fertilizer Opener (Blade and Drop Tube)" on page P97
3	GD9706	1	Lockup Bar
4	G10010	1	Hex Head Cap Screw, 5/8"-11 x 3"
5	G10961 G10620	11 11	Flanged Whiz Lock Screw, 5/16"-18 x 3/4", No Serration Serrated Flange Nut, 5/16"-18
6	GD11954	1	Half Wheel Cover, Nylon
7	GA6171	1	Bearing
8	GD11953	1	Offset Tire
9	GD11423	1	Half Wheel
10	G10438 G10228 G11389	1 1 1	Hex Head Cap Screw, 1/2"-13 x 3/4" Lock Washer, 1/2" Flat Washer, 1/2" SAE
11	G10230	1	Lock Washer, 5/8"
12	G10526	10	Machine Bushing, 1" (.048" Thick)
13	G10560 G10456	1 1	Clevis Pin, 1/2" x 1 3/4" Cotter Pin, 1/8" x 3/4"
14	GD8218	1	Yoke
15	G11391	1	Flat Washer, 5/8" SAE
16	---	-	See "HD Single Disc Fertilizer Opener (Blade and Drop Tube)" on page P97
17	GD7911	1	Pivot Pin
18	G10610	1	Spring Pin, 3/8" 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, 1/4"-28 (Included W/GA8306 and GA8305)
20	GD8308	1	Spring
21	GB0212	2	Spring Washer
22	GD9709	1	Special Bolt
A	G1K215	-	Lockup Kit (Items 1 and 3)
B	GA8877	-	Gauge Wheel Complete (Items 5-9)

FOC016/FOC007/FOC019(PT27c/FRTZ208)

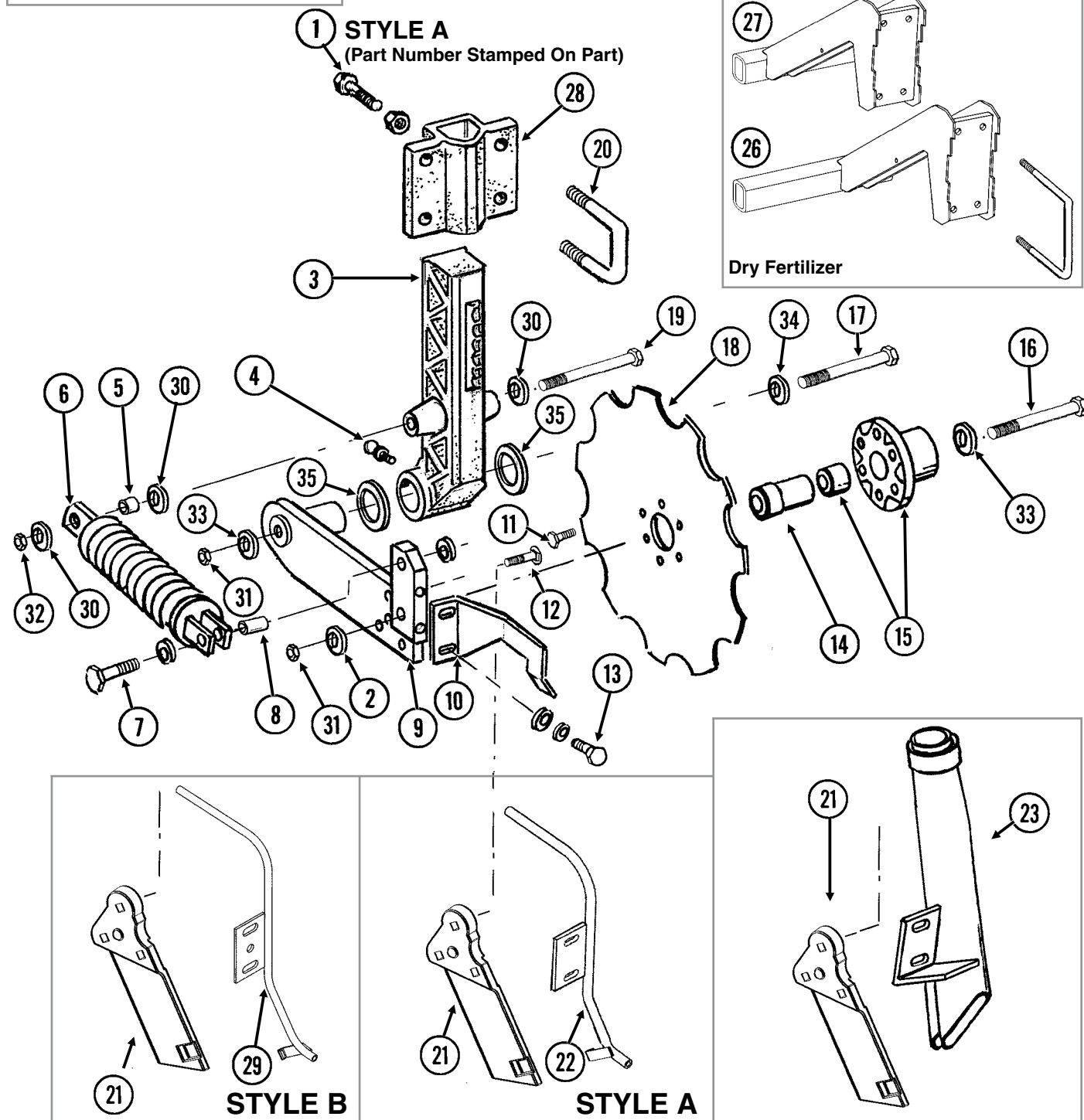
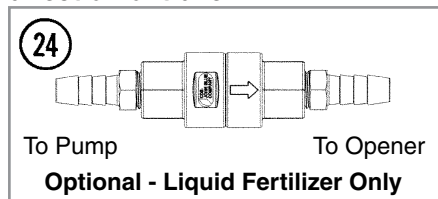


ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD7900	1	Disc Blade, 18"
	GD8247	-	Disc Blade, 20" (Optional)
2	GB0205	1	Spindle
3	GA4286	1	Seal
4	GA4287	1	Bearing
5	GA5887	1	Arm W/Cups and Washers
	GD6553	-	Inner Cup (Included W/GA5887)
	GR0188	-	Outer Cup (Included W/GA5887)
	G11391	3	Flat Washer, 5/8" 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, 2 1/32" I.D. x 7/8" O.D. x 1 9/32" 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, 1/2"-13 x 1 1/2"
	G10111	6	Lock Nut, 1/2"-13
23	G10049	2	Hex Head Cap Screw, 3/8"-16 x 2 1/2"
	G11387	2	Flat Washer, 3/8" SAE
	G10108	2	Lock Nut, 3/8"-16
24	G10599	1	Carriage Bolt, 3/8"-16 x 1 1/4"
	G11387	1	Flat Washer, 3/8" SAE
	G10229	1	Lock Washer, 3/8"
	G10101	1	Hex Nut, 3/8"-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, 3/8"-16 x 1 1/4"
	G10229	2	Lock Washer, 3/8"
30	GD10487	1	Clamp
31	GD10304	-	Angle, R.H.
	GD10303	1	Angle, L.H. (Shown)
32	G10016	2	Hex Head Cap Screw, 1/2"-13 x 2"
	G10111	2	Lock Nut, 1/2"-13
33	G10322	-	Machine Bushing, 1 1/4", 18 Gauge (As Required)
34	G10862	1	Hex Head Cap Screw, 5/8"-11 x 3 1/4"
	G11391	2	Flat Washer, 5/8" SAE
	G10230	1	Lock Washer, 5/8"
35	G10640	1	Grease Fitting, 1/4"-28
36	GD10242	1	Bushing, 2 1/4"
37	G10039	5	Hex Head Cap Screw, 1/2"-13 x 1 3/4"
	G10111	5	Lock Nut, 1/2"-13
38	G10459	1	Cotter Pin, 3/16" x 1 1/2"
39	GA7240	-	Opener Mount, R.H.
	GA7239	1	Opener Mount, L.H. (Shown)
40	GD1114	2	U-Bolt, 7" x 7" x 5/8"-11 (8 1/2" Long)
	GD14559	-	U-Bolt, 7" x 7" x 5/8"-11 (9" Long)
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
41	GD7907	1	Special Bolt
42	GB0206	1	Rod Guide
43	GD8239	1	Storage Strap
44	GD7904-02	1	Sleeve, 1/2" x 1/2" Long
45	G11389	3	Flat Washer, 1/2" SAE
46	GA15416	-	Check Valve, Low Rate
	GA15415	1	Check Valve (Included W/GA15416)
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb (Included W/GA15416)

FOC018(TWL34e/TWL34f/TWL34g/FRTZ268/FRTZ208)

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

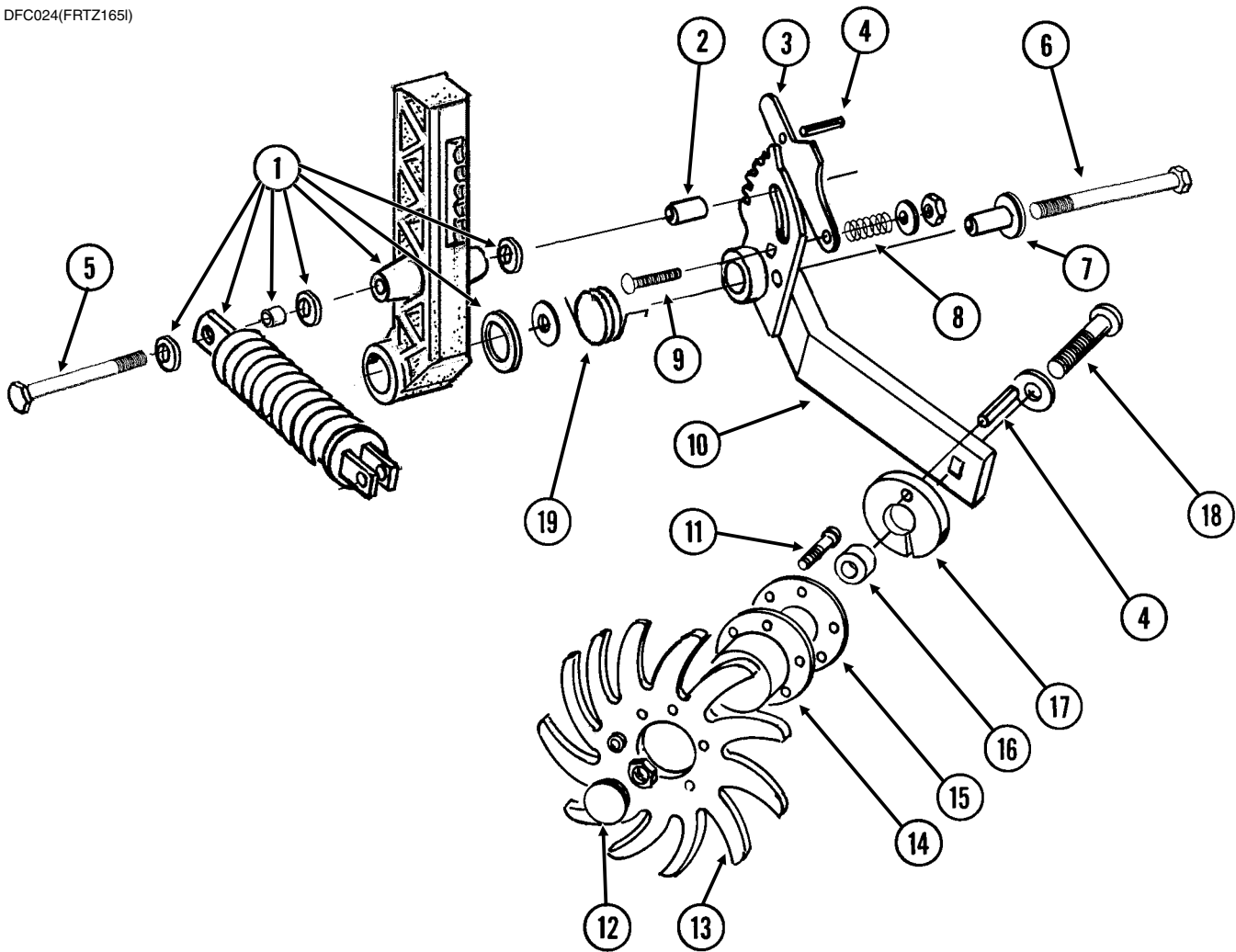


ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10017	3	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10102	3	Hex Nut, 1/2"-13
2	GD12677	1	Washer, 1 1/2" O.D., 7 Gauge, Hardened
3	GB0296	1	Arm, 13 1/2"
4	G10640	1	Grease Fitting, 1/4"-28
5	GD12685	1	Bushing, 3/4" O.D. x 1/2" Long
6	GA6966	1	Compression Spring Assembly
7	G10047	1	Hex Head Cap Screw, 3/8"-16 x 1 3/4"
	G11387	2	Flat Washer, 3/8" SAE
	G10108	1	Lock Nut, 3/8"-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, 3/8"-16 x 3/4"
12	G10306	3	Carriage Bolt, 3/8"-16 x 2"
	G10108	3	Lock Nut, 3/8"-16
13	G10991	2	Hex Head Cap Screw, 5/16"-18 x 7/8"
	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, 5/8"-11 x 5 1/2"
17	G10046	1	Hex Head Cap Screw, 5/8"-11 x 5"
18	GD12676	1	Disc Blade, Notched, 16 3/4"
19	G10871	1	Hex Head Cap Screw, 1/2"-13 x 6"
20	GD13287	2	U-Bolt, 1 1/2" x 2 1/2" x 1/2"-13
	G11389	4	Flat Washer, 1/2" Plated SAE
	G10111	4	Lock Nut, 1/2"-13
21	GB0323	1	Knife, L.H. (Shown)
	GB0322	-	Knife, R.H.
22	GA11397	1	Drop Tube, L.H., Liquid Fertilizer
	GA11398	-	Drop Tube, R.H., Liquid Fertilizer (Shown)
23	GA10047	1	Drop Tube, L.H., Dry Fertilizer
	GA10048	-	Drop Tube, R.H., Dry Fertilizer (Shown)
24	GA15416	-	Check Valve, Low Rate
	GA15415	1	Check Valve (Included W/GA15416)
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb (Included W/GA15416)
25	GA9565	1	Opener Mount Assembly, Liquid Fertilizer
	GA9564	1	Opener Mount (Included W/GA9565)
	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11 (Included W/GA9565)
	G10230	4	Lock Washer, 5/8" (Included W/GA9565)
	G10104	4	Hex Nut, 5/8"-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 5/8"-11 (Included W/GA9821)
	G10230	4	Lock Washer, 5/8" (Included W/GA9821)
	G10104	4	Hex Nut, 5/8"-11 (Included W/GA9821)

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 5/8"-11 (Included W/GA9822)
	G10230	4	Lock Washer, 5/8" (Included W/GA9822)
	G10104	4	Hex Nut, 5/8"-11 (Included W/GA9822)
28	GB0405	1	Mount, L.H.
	GB0400	-	Mount, R.H. (Shown)
29	GA12108	1	Drop Tube, Liquid Fertilizer (Shown)
	GA12109	-	Drop Tube, Liquid Fertilizer
30	G11389	-	Flat Washer, 1/2" Plated SAE
31	G10107	-	Lock Nut, 5/8"-11
32	G10111	-	Lock Nut, 1/2"-13
33	G11391	-	Flat Washer, 5/8" SAE
34	G10217	-	Washer, 5/8" USS
35	G10450	-	Machine Bushing, 1 1/2", 18 Gauge (As Required)

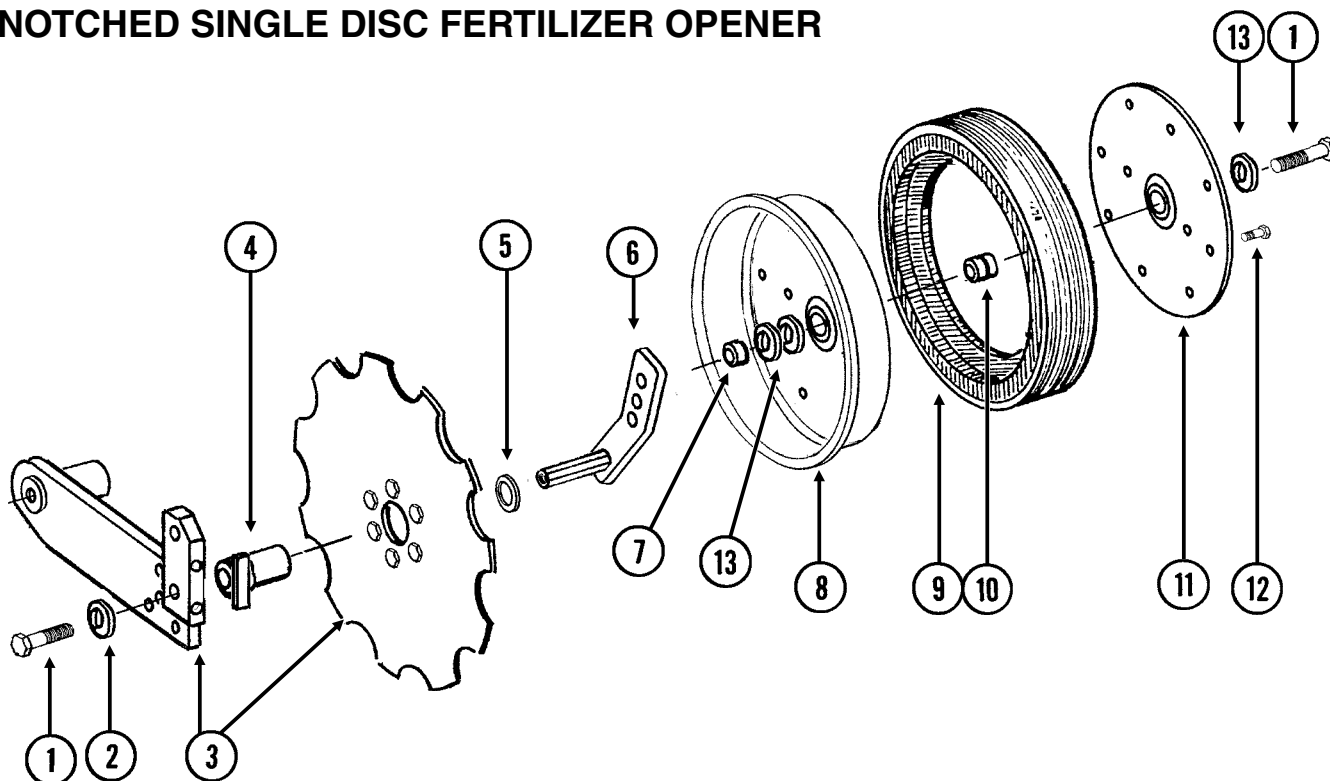
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DFC024(FRTZ165I)



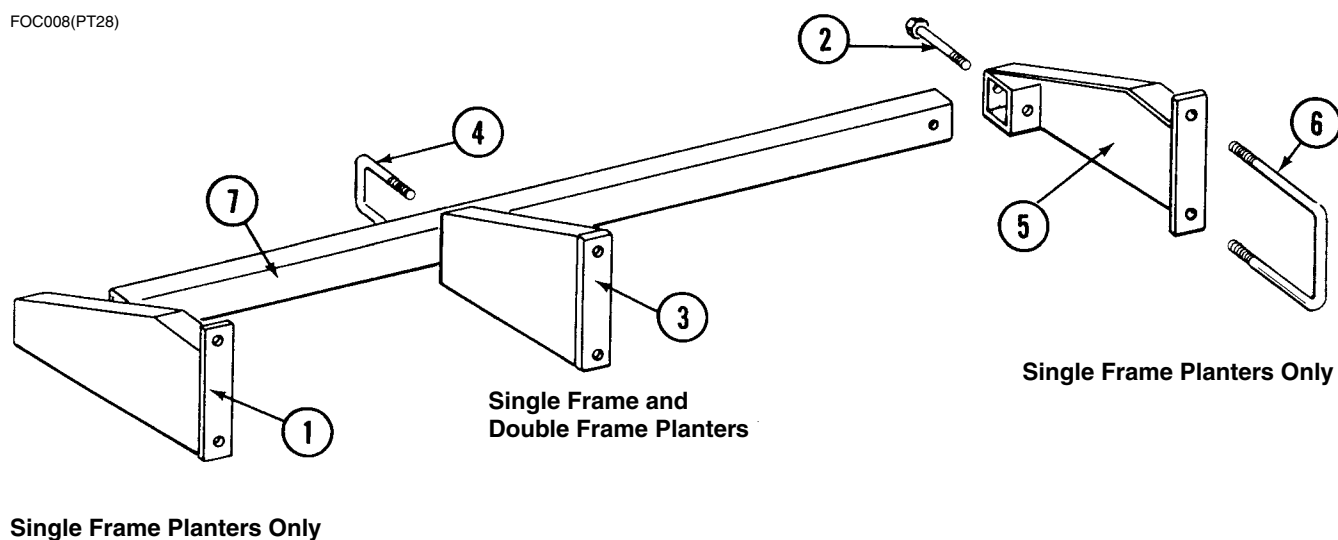
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	---	-	See "Notched Single Disc Fertilizer Opener" on page P99
2	GD12684	1	Bushing, 1 1/8" Long
3	GD11178	1	Adjustment Lever
4	G10603	2	Spring Pin, 1/4" x 1 1/4"
5	G11034	1	Hex Head Cap Screw, 1/2"-13 x 7"
	G10111	1	Lock Nut, 1/2"-13
6	G10830	1	Hex Head Cap Screw, 5/8"-11 x 7 1/2"
	G11391	1	Flat Washer, 5/8" SAE
	G10107	1	Lock Nut, 5/8"-11
7	GD11836	1	Sleeve, 2 1/8" Long
8	GD7962	1	Spring
9	G10306	1	Carriage Bolt, 3/8"-16 x 2"
	G11387	1	Flat Washer, 3/8" SAE
	G10108	1	Lock Nut, 3/8"-16
10	GA7999	1	Mount W/Grease Fitting, L.H. (Shown)
	GA7998	-	Mount W/Grease Fitting, R.H.
	G10640	-	Grease Fitting, 1/4"-28 (Included W/GA7999 and GA7998)
11	G10133	6	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	6	Lock Nut, 5/16"-18, Grade 8
12	GD1132	2	Dust Cap
13	GD10552	2	Wheel, 12 Tine, 3/8" x 12"
14	GA5654	1	Hub W/Bearings
	GA2014	-	Bearing (Included W/GA5654)
15	GD9724	1	Backing Plate
16	GD7817-04	1	Spacer, 1 1/16" I.D. x 1/2" Long
17	GD11188	1	Spacer
18	G10908	1	Carriage Bolt, 5/8"-11 x 3"
	G10503	1	Hex Jam Nut, 5/8"-11, Grade 2
19	GD11265	1	Spring, L.H. (Shown)
	GD11266	-	Spring, R.H.
A	GA7445	-	Wheel Assembly, 12 Tine, L.H. (Items 11 and 13-15)(Shown)
	GA7446	-	Wheel Assembly, 12 Tine, R.H. (Items 11 and 13-15)

(FRTZ256)

**FOR USE WITH
NOTCHED SINGLE DISC FERTILIZER OPENER**

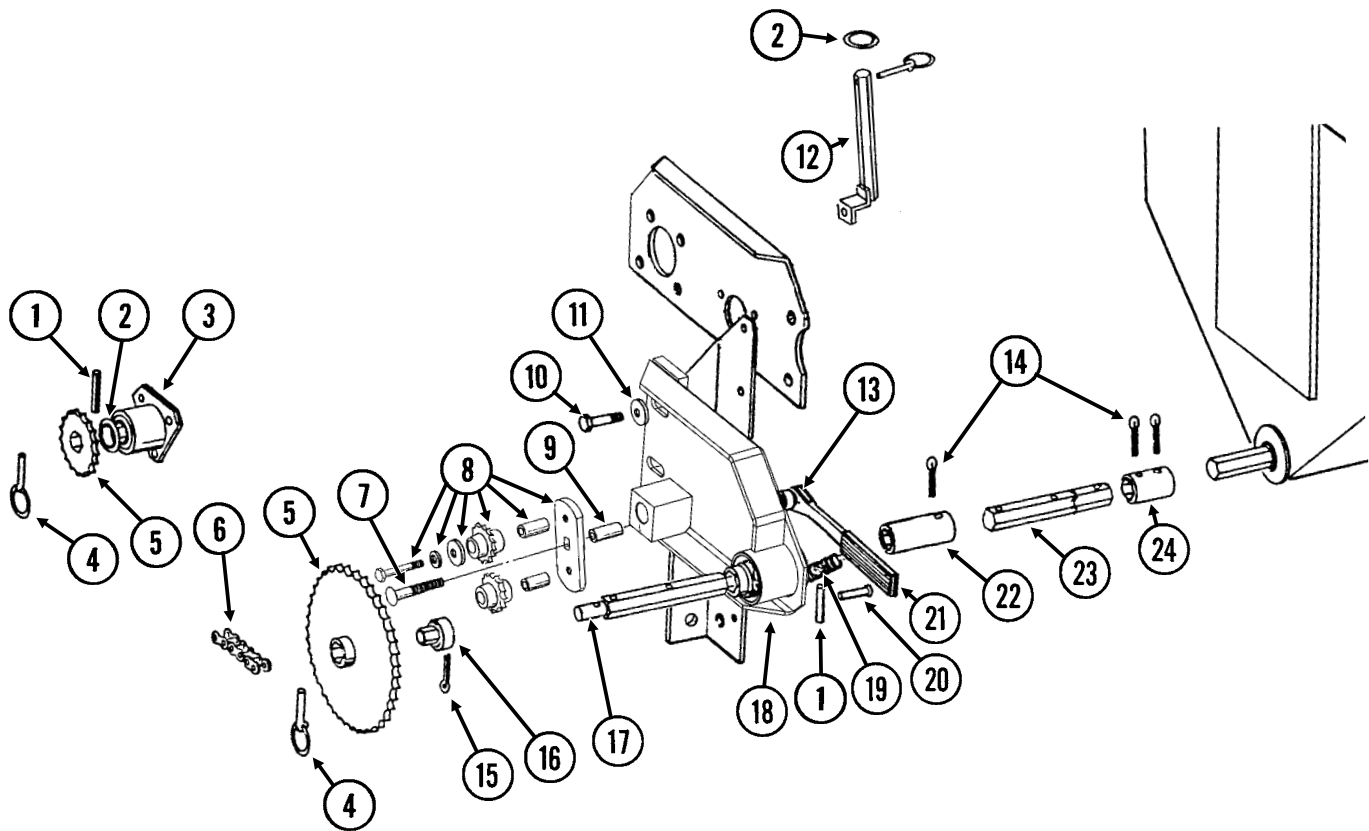
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10010	2	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x 3"
2	G11391	1	Flat Washer, $\frac{5}{8}$ " SAE
3	---	-	See "Notched Single Disc Fertilizer Opener" on page P99
4	GA9472	1	Blade Mount
5	G10233	1	Machine Bushing, 1", 10 Gauge
6	GA10037	1	Wheel Mount, L.H. (Shown)
	GA10036	1	Wheel Mount, R.H.
7	GD13309	1	Spacer
8	GD11423	1	Half Wheel
9	GD11953	1	Offset Tire
10	GA6171	1	Bearing
11	GD11954	1	Half Wheel Cover, Nylon
12	G10961	11	Flanged Whiz Lock Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ ", No Serration
	G10620	11	Serrated Flange Nut, $\frac{5}{16}$ "-18
13	G10204	-	Special Machine Bushing, $\frac{5}{8}$ " x 1" O.D. (As Required)
A	GA8877	-	Gauge Wheel Complete (Items 8-12)

FOC008(PT28)



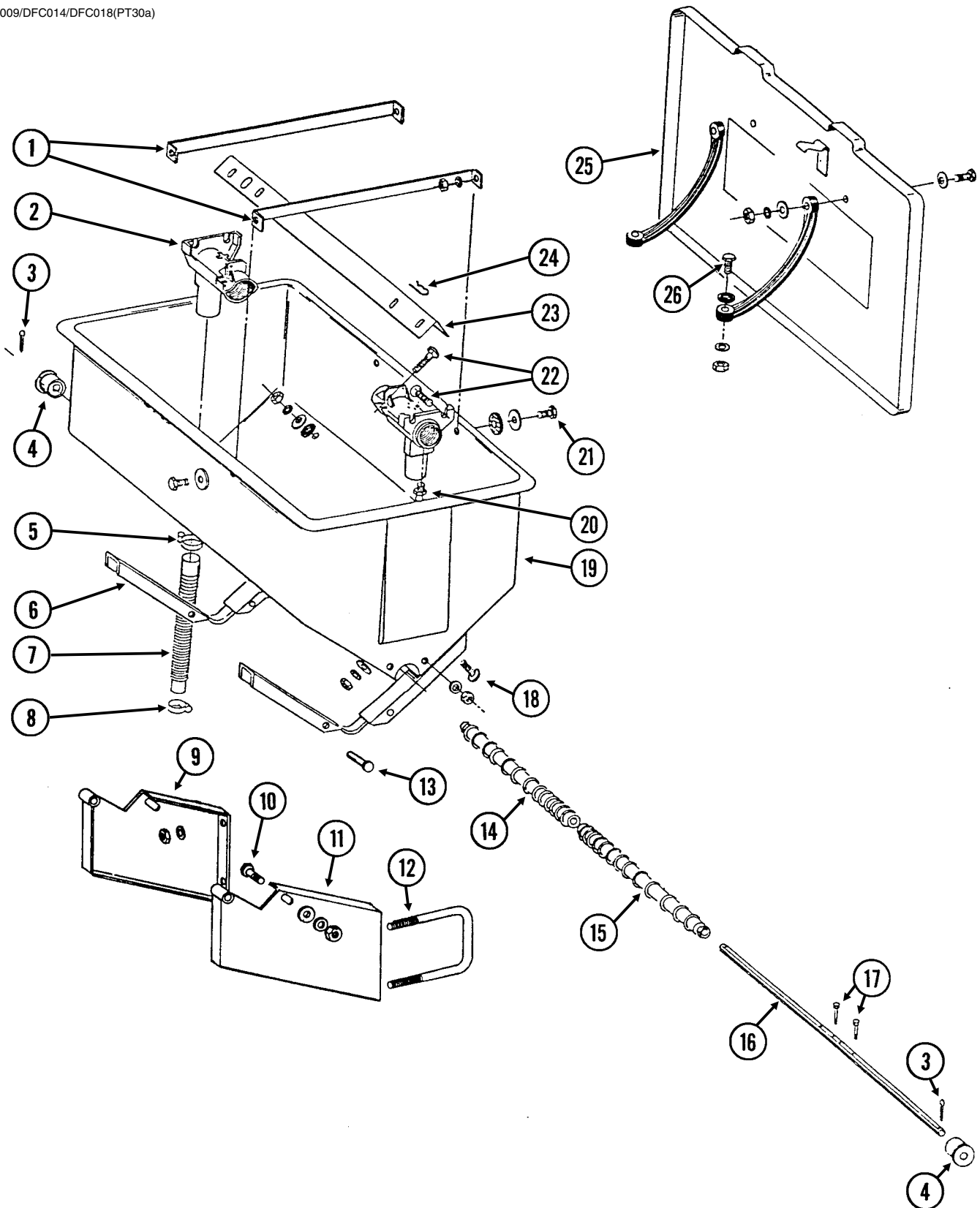
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA5231	1	Support, L.H., Single Frame Planters Only
2	G10035	2	Hex Head Cap Screw, 1/2"-13 x 4"
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
3	GA5237	1	Support, 19" Long, L.H. (Shown), 8 Row 30" Single Frame Planters
	GA5236	1	Support, 19" Long, R.H., 8 Row 30" Single Frame Planters
	GA9431	1	Support, 18 1/8" Long, L.H., 8 Row 30" Double Frame Planters
	GA9430	1	Support, 18 1/8" Long, R.H., 8 Row 30" Double Frame Planters
4	GD1138	2	U-Bolt, 2 1/2" x 2 1/2" x 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
5	GA5230	1	Support, R.H., Single Frame Planters Only
6	GD1114	2	U-Bolt, 7" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
7	GD1685-14	1	Toolbar, 2 1/2" x 2 1/2" x 105", 4 Row 30"
	GD1685-15	-	Toolbar, 2 1/2" x 2 1/2" x 129", 4 Row 36"/38"
	GD1685-13	-	Toolbar, 2 1/2" x 2 1/2" x 165", 6 Row 30"
	GD1685-12	-	Toolbar, 2 1/2" x 2 1/2" x 205", 6 Row 36"/38"
	GD1685-16	-	Toolbar, 2 1/2" x 2 1/2" x 225", 8 Row 30"
A	G6795X	-	Support Bundle (Items 1, 2, 4, 5 and 6)

(PT29f)



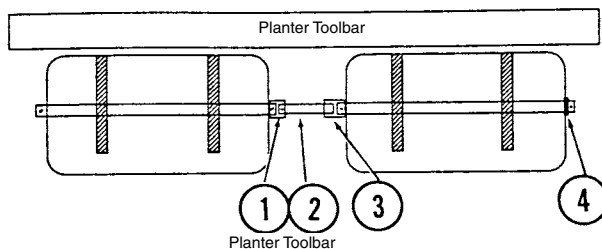
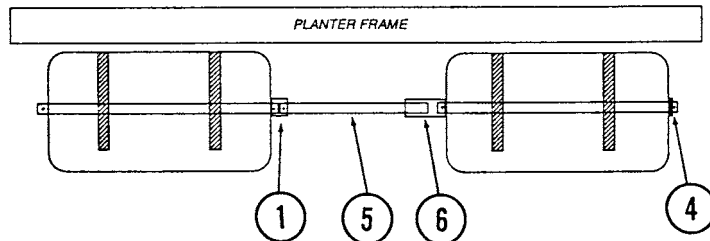
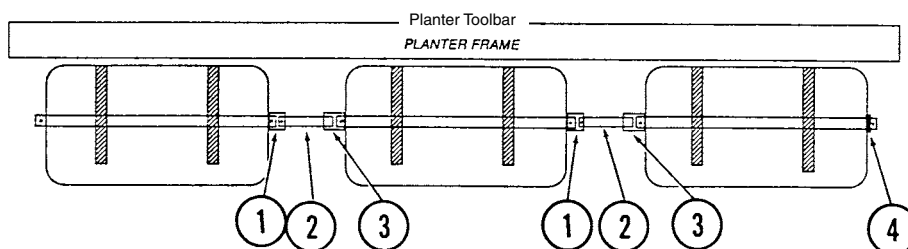
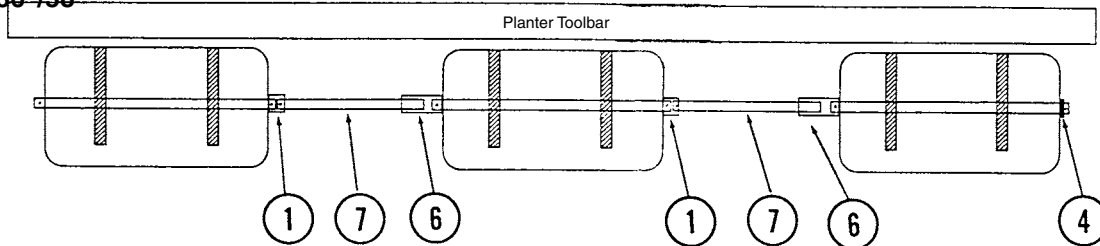
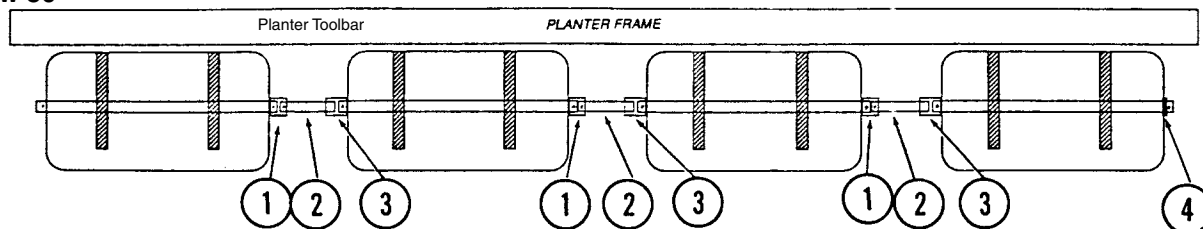
ITEM	PART NO.	QTY.	DESCRIPTION
1	G10602	2	Spring Pin, 1/4" x 1 1/2"
2	G10233	2	Machine Bushing, 1", 10 Gauge
3	GA5223	1	Spacer W/Bearing
	GA5116	-	Bearing, 7/8" Hex Bore, Cylindrical (Included W/GA5116)
4	GD2558	3	Lynch Pin, 1/4"
5	GA5105	1	Sprocket, 15 Tooth
	GA5107	1	Sprocket, 19 Tooth
	GA5114	1	Sprocket, 30 Tooth
	GA5115	1	Sprocket, 33 Tooth
	GA6337	1	Sprocket, 35 Tooth
6	G3310-98	1	Chain, No. 40, 98 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
7	G10419	1	Carriage Bolt, 1/2"-13 x 4 1/2"
	G10111	1	Lock Nut, 1/2"-13
8	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 1 3/4" (Included W/GA7336)
9	GD3180-17	1	Sleeve, 5/8" I.D. x 7/8" O.D. x 2 5/16" Long
10	G10053	2	Hex Head Cap Screw, 1/2"-13 x 2 1/2"
	G10585	1	Hex Head Cap Screw, 1/2"-13 x 3 1/4"
	G10033	1	Hex Head Cap Screw, 1/2"-13 x 3 1/2"
	G10016	2	Hex Head Cap Screw, 1/2"-13 x 2"
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
11	G11389	2	Flat Washer, 1/2" Plated SAE
12	GA7313	1	Sprocket Storage Rod
13	GD10161	1	Spacer, 3/8"
14	G10460	-	Cotter Pin, 1/4" x 2"
15	G10821	1	Clevis Pin, 3/16" x 2"
	G10455	-	Cotter Pin, 1/16" x 1/2"
16	GD7127	1	Shear Coupler
17	GD7870	1	Shaft, 7"
18	GA21798	1	Plate W/Bearings and Grease Fitting
	GA5116	-	Bearing, 7/8" Hex Bore, Cylindrical (Included W/GA21798)
	GA5624	-	Special Bearing, 7/8" Hex Bore x 1.6" (Included W/GA21798)
	G10640	-	Grease Fitting, 1/4"-28 (Included W/GA21798)
19	GD5857	1	Spring
20	G10408	1	Clevis Pin, 5/16" x 3/4"
	G10409	1	Retaining Ring, 5/16"
21	GA4235	1	Ratchet Arm W/Protective Closure
	G10445	-	Protective Closure
22	GD7867	-	Coupler, 3", 4 Row 36"/38" and 6 Row 36"/38" Only
23	GD7871	-	Hex Shaft, 7/8" x 6" (3 Holes), 4 Row 36"/38" and 6 Row 36"/38" Only
24	GD5886	-	Coupler, 1 3/4"

DFC009/DFC014/DFC018(PT30a)



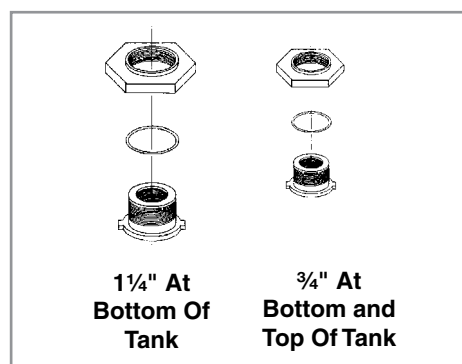
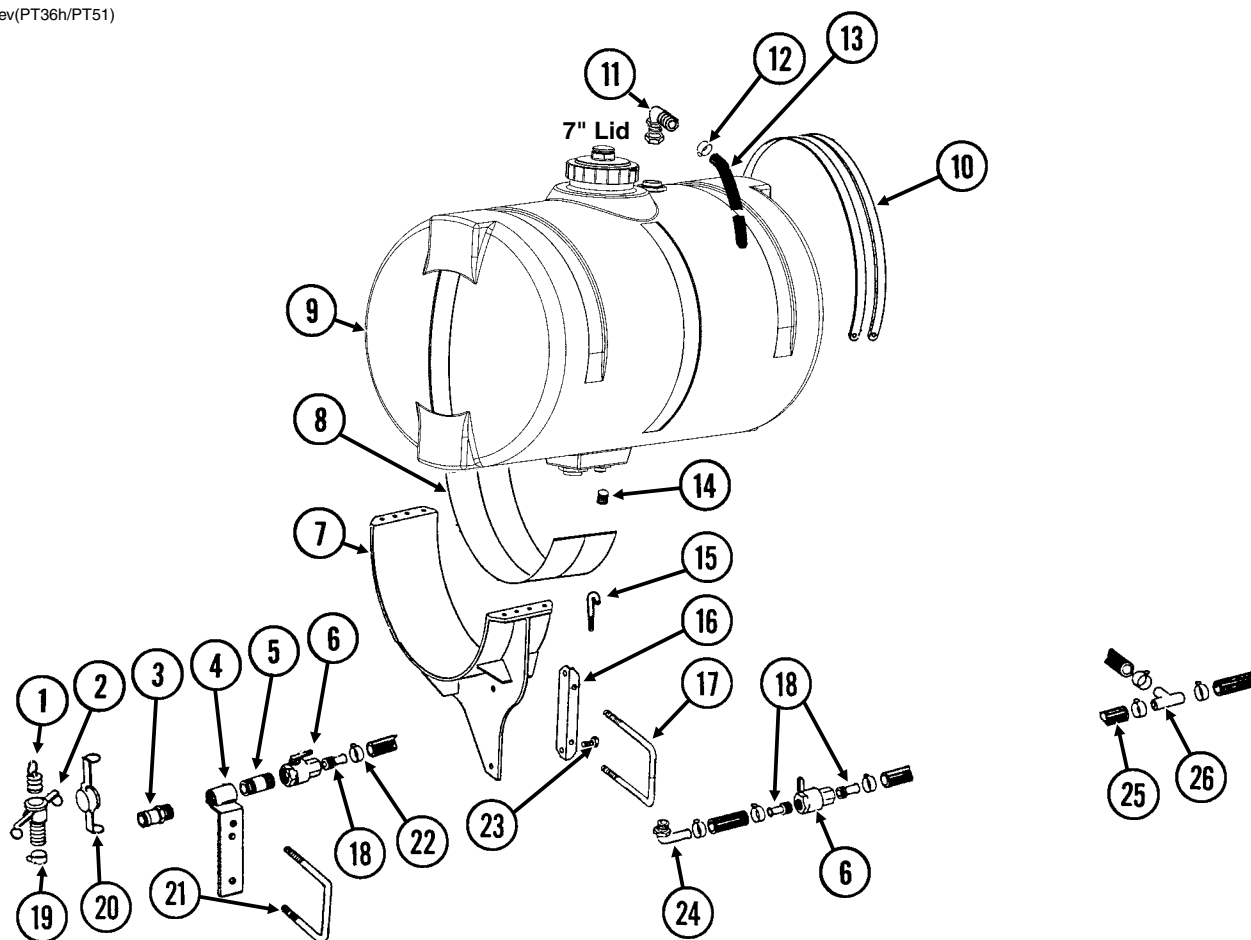
ITEM	PART NO.	QTY. (Per Hopper)	DESCRIPTION
1	GD1209	2	Strap
2	GD1200	2	Outlet Housing
3	G10460	2	Cotter Pin, 1/4" x 2"
4	GB0200	2	Bearing
5	G10676	2	Hose Clamp, No. 36, Stainless Steel
6	GA5652	2	Saddle
7	GD21398	2	Rubber Tube
8	G10672	2	Hose Clamp, No. 28
9	GA0864	1	Hopper Mount, R.H.
10	G10037	2	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
	G11389	2	Flat Washer, 1/2" SAE
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
11	GA0863	1	Hopper Mount, L.H.
12	GD1114	2	U-Bolt, 7" x 7" x 5/8"-11
	G10177	-	Hex Head Cap Screw, 5/8"-11 x 9 1/2"
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
13	G10561	2	Clevis Pin, 1/2" x 3"
	G10451	2	Cotter Pin, 1/8" x 1"
14	GB0198	1	Auger, R.H.
15	GB0199	1	Auger, L.H.
16	GD7848	1	Shaft
17	G10587	2	Hex Head Cap Screw, 1/4"-20 x 2", Stainless Steel
	G10588	2	Hex Nut, 1/4"-20, Stainless Steel
18	G10303	8	Carriage Bolt, 5/16"-18 x 1"
	G10201	8	Special Washer, 3/8" x 1 1/2" O.D.
	GD1213	8	Rubber Washer
	G10232	8	Lock Washer, 5/16"
	G10106	8	Hex Nut, 5/16"-18
19	GD1379	1	Hopper
20	G10640	2	Grease Fitting, 1/4"-28
21	G10171	4	Hex Head Cap Screw, 5/16"-18 x 1 1/4"
	G10201	4	Special Washer, 3/8" x 1 1/2" O.D.
	GD1213	4	Rubber Washer
	G10232	4	Lock Washer, 5/16"
	G10106	4	Hex Nut, 5/16"-18
22	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
23	GD1207	1	Baffle
24	G10670	2	Hair Pin Clip, No. 3
25	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 1 3/32" (Included W/GA0898)
	GD1210	-	Rubber Strap (Included W/GA0898)
	G10171	-	Hex Head Cap Screw, 5/16"-18 x 1 1/4" (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)
26	G10133	2	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G11386	2	Flat Washer, 5/16" SAE
	G10232	2	Lock Washer, 5/16"
	G10106	2	Hex Nut, 5/16"-18
A	GA5666	-	Hopper Sub-Assembly (Items 2,6,18,19, 22 and 24)
B	GA5667	-	Hopper Hardware Box (Items 1, 3, 4, 14-17, 21, 23 and 26)

RH101190(PT31/PT32/PT33/PT34/PT35)

4 Row 30"**4 Row 36"/38"****6 Row 30"****6 Row 36"/38"****8 Row 30"**

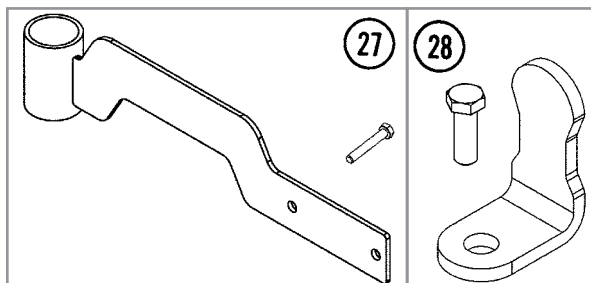
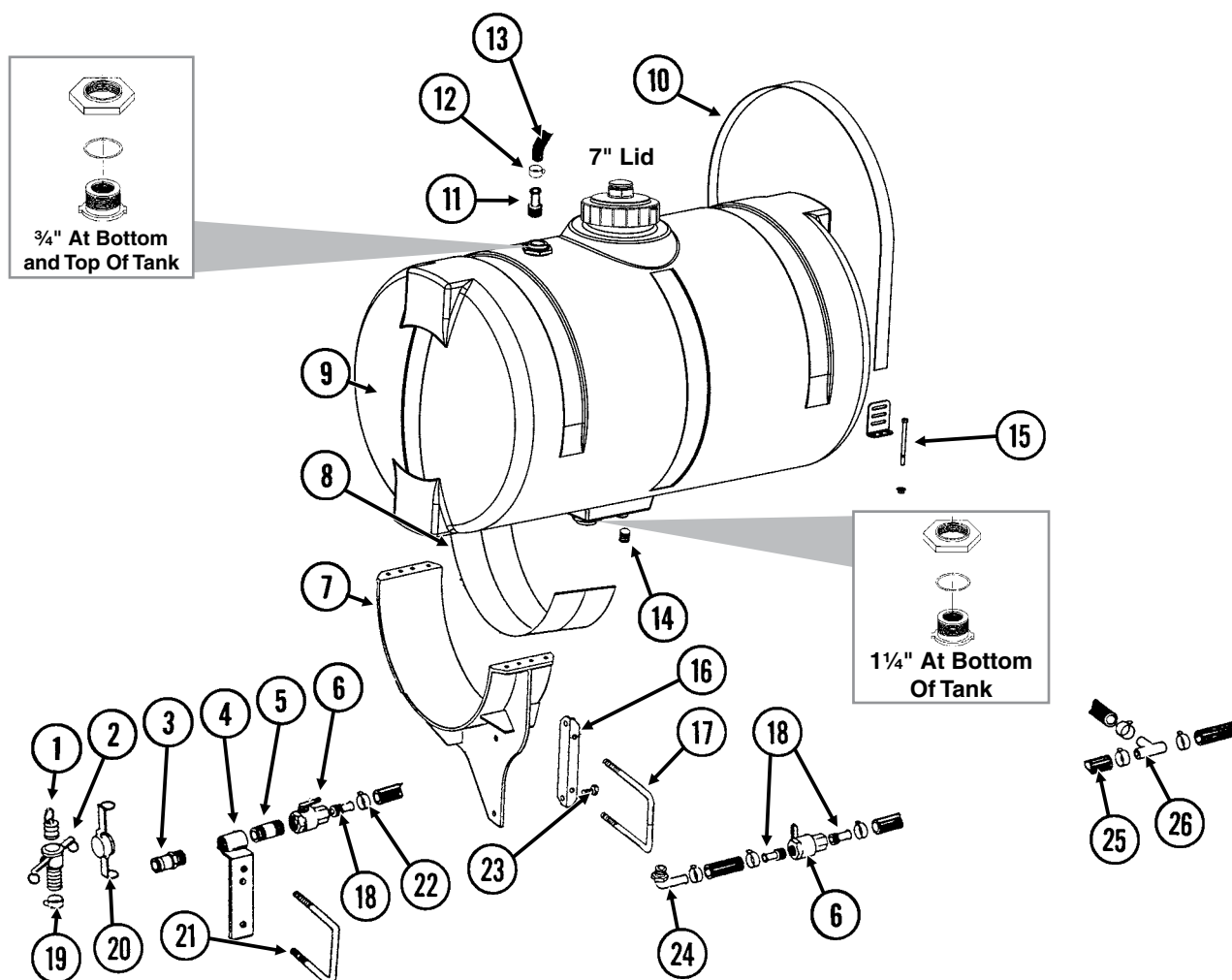
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD5886	-	Coupler, 1¾"
2	GD2548-15.5	-	Hex Shaft, 7/8" x 15½" (1 Hole)
3	GD7867	-	Coupler, 3"
4	G10233	2	Machine Bushing, 1", 10 Gauge
5	GD2548-25.5	-	Hex Shaft, 7/8" x 25½" (1 Hole)
6	GD7868	-	Coupler, 7"
7	GD2548-27.5	-	Hex Shaft, 7/8" x 27½" (1 Hole)

LFC012rev(PT36h/PT51)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD1517	1	Dust Plug, 1¼" Male Cam Lock
2	GD1516	1	Adapter, 1¼" Barb To Female Cam Lock
3	GD1514	1	Adapter, 1¼" Male NPT To Cam Lock
4	GA5917	1	Quick Fill Mount
5	G10619	1	Close Nipple, 1¼" NPT
6	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)
7	GA7375	-	Tank Mount (2 Per Tank)
8	GD1862	-	Pad, 8" x 14" (For Two 30" Tanks)
9	GA14049	-	Tank W/Lid and Fittings, 30" x 150 Gallon, 4 Row
	GA16428	-	Lid W/Vent, 7" (Top Of Tank) (Included W/GA14049)
	GR1708	-	¾" Polypropylene Fitting Assembly (Overflow Fitting, Nut, Bushing, and O-Ring) (Top and Bottom Of Tank) (Included W/GA14049)
	GR1397	-	Overflow Fitting
	GR0508	-	1¼" Polypropylene Fitting Assembly (Nut, Bushing, and O-Ring) (Bottom Of Tank) (Included W/GA14049)
	GR1941	-	Seal (Included W/GA14049)
10	GD1520	-	Band, 30"
11	G10917	2	Elbow, 90°, ¾" NPT To Barb
12	G10278	2	Hose Clamp, No. 16
13	G4205-11	1	Hose, ¾" x 72" (1 Per Tank)
14	G10096	-	Pipe Plug, ¾" NPT
15	GD1337	-	J-Bolt, ⅝"-18
	G11182	-	Lock Nut W/Nylon Insert, ⅝"-18
16	GD10110	-	Mounting Angle (2 Per Tank)
17	GD1748	-	U-Bolt, 7" x 7" x ¾"-10
	G10231	-	Lock Washer, ¾"
	G10105	-	Hex Nut, ¾"-10
18	G10626	-	Adapter, 1¼" NPT To Barb
19	G10672	1	Hose Clamp, No. 28
20	GD1515	1	Dust Cap, 1¼" Cam Lock
21	GD7145	1	U-Bolt, 7" x 7" x ½"-13
	GD11721	1	U-Bolt, 5" x 7" x ½"-13
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
22	G10674	-	Hose Clamp, No. 24
23	G10007	-	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	-	Lock Washer, ⅝"
	G10104	-	Hex Nut, ⅝"-11
24	G10629	-	Elbow, 90°, 1¼" NPT To Barb
25	G4200-01	1	Hose, 1¼" x 22', 4 Row
26	G10633	-	Tee, 1¼" Barb

LFC012rev(PT36i/PT51)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD1517	1	Dust Plug, 1¼" Male Cam Lock
2	GD1516	1	Adapter, 1¼" Barb To Female Cam Lock
3	GD1514	1	Adapter, 1¼" Male NPT To Cam Lock
4	GA5917	1	Quick Fill Mount
5	G10619	1	Close Nipple, 1¼" NPT
6	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)
7	GA7375	-	Tank Mount (2 Per Tank)
8	GD1862	-	Pad, 8" x 14" (For Two 30" Tanks)
9	GA14049	-	Tank W/Lid and Fittings, 30" x 150 Gallon, 6 and 8 Row
	GA16428	-	Lid, 7" (Included W/GA14049)
	GR1941	-	Lid Seal (Included W/GA14049)
	GR1708	-	¾" Polypropylene 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)
10	GD11124	-	Strap, 84"
11	G10626	2	Adapter, 1¼" NPT To Barb
12	G10674	2	Hose Clamp, No. 24
13	G4602-01	1	Black Helix Hose, 1¼" x 18'
14	G10096	-	Pipe Plug, ¾" NPT
15	G10485	-	Hex Head Tap Bolt, ⅜"-16 x 5"
	G10901	-	Lock Nut, ⅜"-16
16	GD10110	-	Mounting Angle (2 Per Tank)
17	GD1748	-	U-Bolt, 7" x 7" x ¾"-10
	G10231	-	Lock Washer, ¾"
	G10105	-	Hex Nut, ¾"-10
18	G10626	-	Adapter, 1¼" NPT To Barb
19	G10672	1	Hose Clamp, No. 28
20	GD1515	1	Dust Cap, 1 ¼" Cam Lock
21	GD7145	1	U-Bolt, 7" x 7" x ½"-13
	GD11721	1	U-Bolt, 5" x 7" x ½"-13
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
22	G10674	-	Hose Clamp, No. 24
23	G10007	-	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	-	Lock Washer, ⅝"
	G10104	-	Hex Nut, ⅝"-11
24	G10629	-	Elbow, 90°, 1¼" NPT To Barb
25	G4200-02	-	Hose, 1¼" x 27', 6 Row
	G4200-03	-	Hose, 1¼" x 32', 8 Row
26	G10633	-	Tee, 1¼" Barb
27	GA14112	-	Hose Guide
	G10004	-	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G11091	-	Serrated Flange Nut, ⅜"-16
28	GD20060	-	Hose Bracket
	G10004	-	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G11091	-	Serrated Flange Nut, ⅜"-16
29	GD11123	-	Anchor

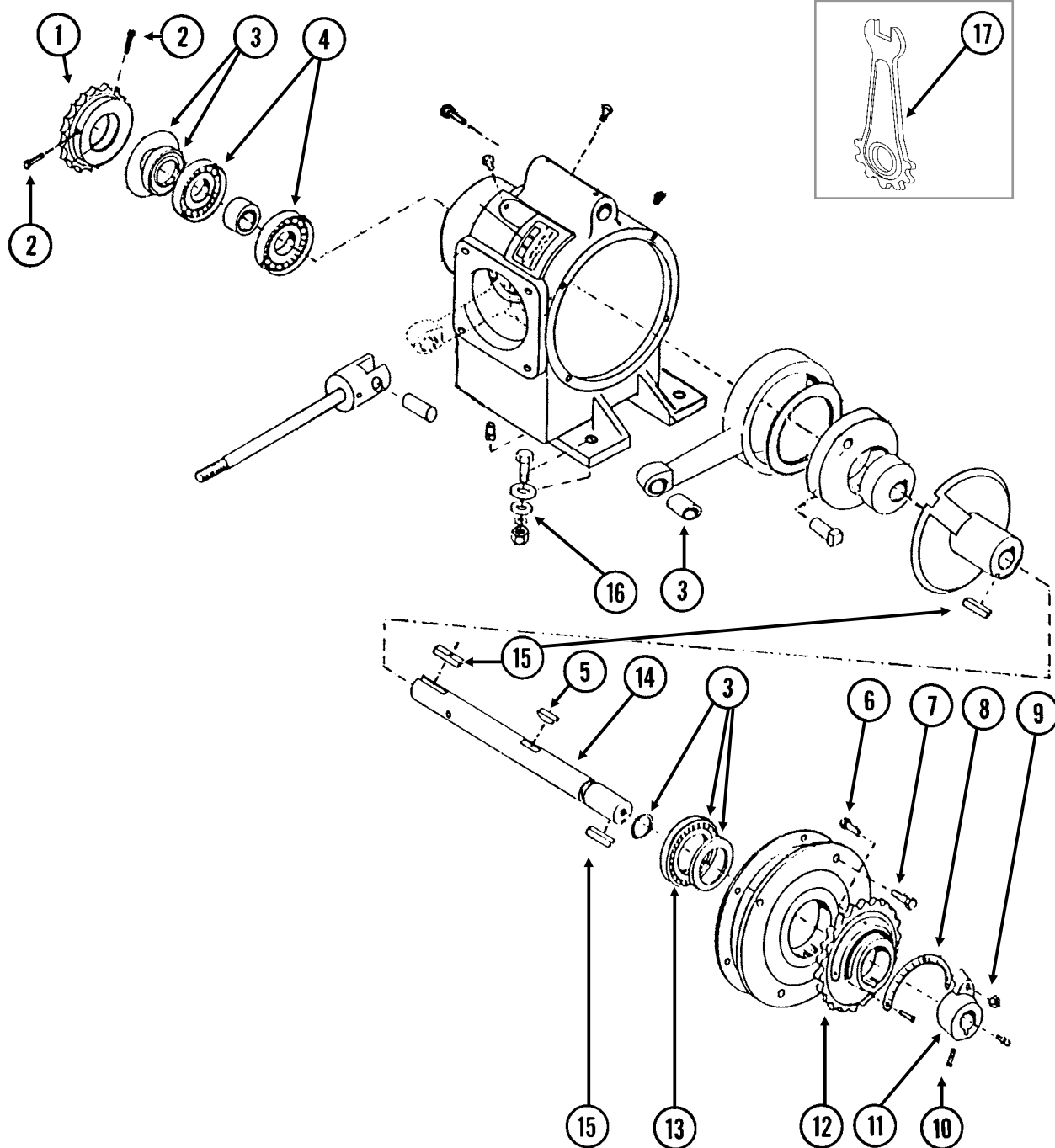
ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Liquid Fertilizer Piston Pump Flow Divider" on page P127
2	GD11700	-	Adapter, 1/4" NPT To 3/8" Barb
3	G10681	-	Hose Clamp, No. 6
4	G4301-01	1	Hose, 3/8" x 30', 4 Row
	G4301-03	-	Hose, 3/8" x 60', 6 Row
	G4301-04	-	Hose, 3/8" x 100', 8 Row
5	---	-	See "Liquid Fertilizer Piston Pump (Cylinder Assembly) Uses 18 Tooth Sprocket" on page P123
6	---	-	See "Liquid Fertilizer Piston Pump (Cylinder Assembly) Uses 18 Tooth Sprocket" on page P123
7	---	-	See "Liquid Fertilizer Piston Pump (Cylinder Assembly) Uses 18 Tooth Sprocket" on page P123
8	G10004	4	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10229	4	Lock Washer, 3/8"
	G10101	4	Hex Nut, 3/8"-16
9	GD11180	1	Plate
10	G10003	4	Hex Head Cap Screw, 3/8"-16 x 1 1/2"
	G11387	4	Flat Washer, 3/8" SAE
	GR1122	4	Mounting Pad
	G10229	4	Lock Washer, 3/8"
	G10101	4	Hex Nut, 3/8"-16
11	G10478	1	Clevis Pin, 5/16" x 1"
	G10409	1	Retaining Ring, 5/16"
	G10670	1	Hair Pin Clip, No. 3
12	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 1 3/4" (Included W/GA7336)
13	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"
14	G3310-126	1	Chain, No. 40, 126 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
15	GD2734-08	1	Sleeve, 1 1/4" O.D. x 5/8" Long
16	G10303	3	Carriage Bolt, 5/16"-18 x 1"
	G10232	3	Lock Washer, 5/16"
	G10106	3	Hex Nut, 5/16"-18
17	GD11045	2	Lock Clamp
	G10130	-	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	-	Flange Nut, 5/16"-18, No Serration
18	GA5194	1	Sprocket, 50 Tooth
19	G10233	2	Machine Bushing, 1", 10 Gauge
20	G3400-01	2	Flangette
21	G2100-03	1	Bearing, 7/8" Hex Bore, Spherical
22	GD15685	1	Clamp
23	GA6501	1	Drive Plate W/Grease Fitting
	G10641	-	Grease Fitting, 1/8" NPT
	G10640	-	Grease Fitting, 1/4"-28
24	G10017	4	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
25	GD5857	1	Spring

ITEM	PART NO.	QTY.	DESCRIPTION
26	GD5990	1	Shaft, 74"
27	GD3839	1	Coupler, 2"
28	G10602	1	Spring Pin, 1/4" x 1 1/2"
29	G10460	1	Cotter Pin, 1/4" x 2"
30	G10130	-	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	-	Flange Nut, 5/16"-18, No Serration
31	G11075	2	External Inverted Snap Ring, 7/8"
32	G10496	2	External Inverted Snap Ring, 1 1/2"
33	G10629	1	Elbow, 90°, 1 1/4" NPT To Barb
34	---	-	See "Liquid Fertilizer Tanks, Saddle, Mounts, Hoses, and Fittings, 4 Row" on page P113 See "Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings, 6 and 8 Row" on page P115
35	G10615	1	Reducing Bushing, 1 1/2" Male NPT To 1 1/4" Female
36	G10995	1	Reducing Bushing, 1" Male NPT To 3/4" Female, Stainless Steel
37	G10292	-	Pipe Plug, 1/4" NPT
38	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)
39	G10994	1	Close Nipple, 3/4" NPT, Stainless Steel
40	GD14431	1	Handle
41	GD14427	1	Tightener Shaft, 4 7/8"
42	G11078	1	Vinyl Cap
43	GD14432	1	Sleeve, 1 1/4"
44	GD19343	1	Release Collar, R.H.
45	GD14413	1	Torsion Spring, L.H. (Used On R.H. Wrap Spring Wrench)
46	G11237	1	Reducing Bushing, 1 1/2" Male NPT To 3/4" Female
47	---	-	See "Liquid Fertilizer Piston Pump Uses 18 Tooth Sprocket" on page P125
A	G1K269	-	Lock Clamp Kit (Items 17 and 30)
B	G1K378	-	Wrap Spring Wrench Replacement Kit, Blue Collar, R.H., (Items 13, 15, 31, 32 and 41-46)

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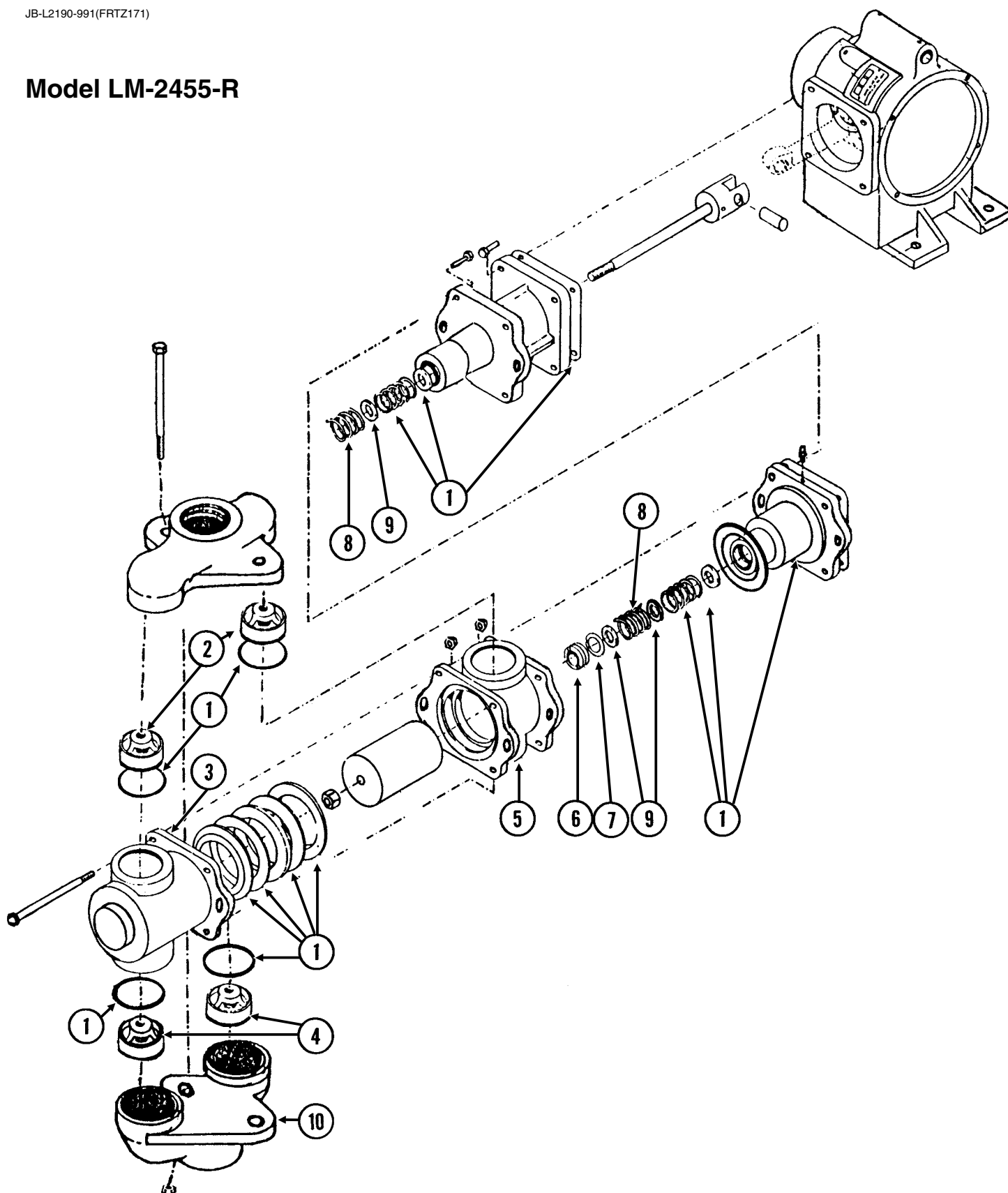
Model LM-2455-R



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1389	1	Sprocket, 18 Tooth
2	G10688	2	Square Head Set Screw, $\frac{3}{8}$ "-16 x $\frac{5}{8}$ "
3	GR1425	1	Repair Kit
4	GR1427	2	Bearing
5	GR1420	1	Woodruff Key, $\frac{3}{8}$ "-16 x $1\frac{3}{4}$ "
6	GR1167	1	Square Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{3}{4}$ "
7	G10043	4	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "
8	GR1168	1	Scale
9	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
10	G10693	3	Hex Socket Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{8}$ "
11	GR1165	1	Arm
12	GR1114	1	Flange
13	GR1116	1	Bearing
14	GR1421	1	Crankshaft
15	GR1118	2	Setting Arm Key
16	---	-	See "Liquid Fertilizer Piston Pump Drive" on page P117
17	GR1424	1	Adjustment Wrench
A	GA8069	-	Piston Pump Complete W/18 Tooth Sprocket (Model LM-2455-R), Includes Crankcase Assembly On This Page and Cylinder Assembly on page P133

JB-L2190-991(FRTZ171)

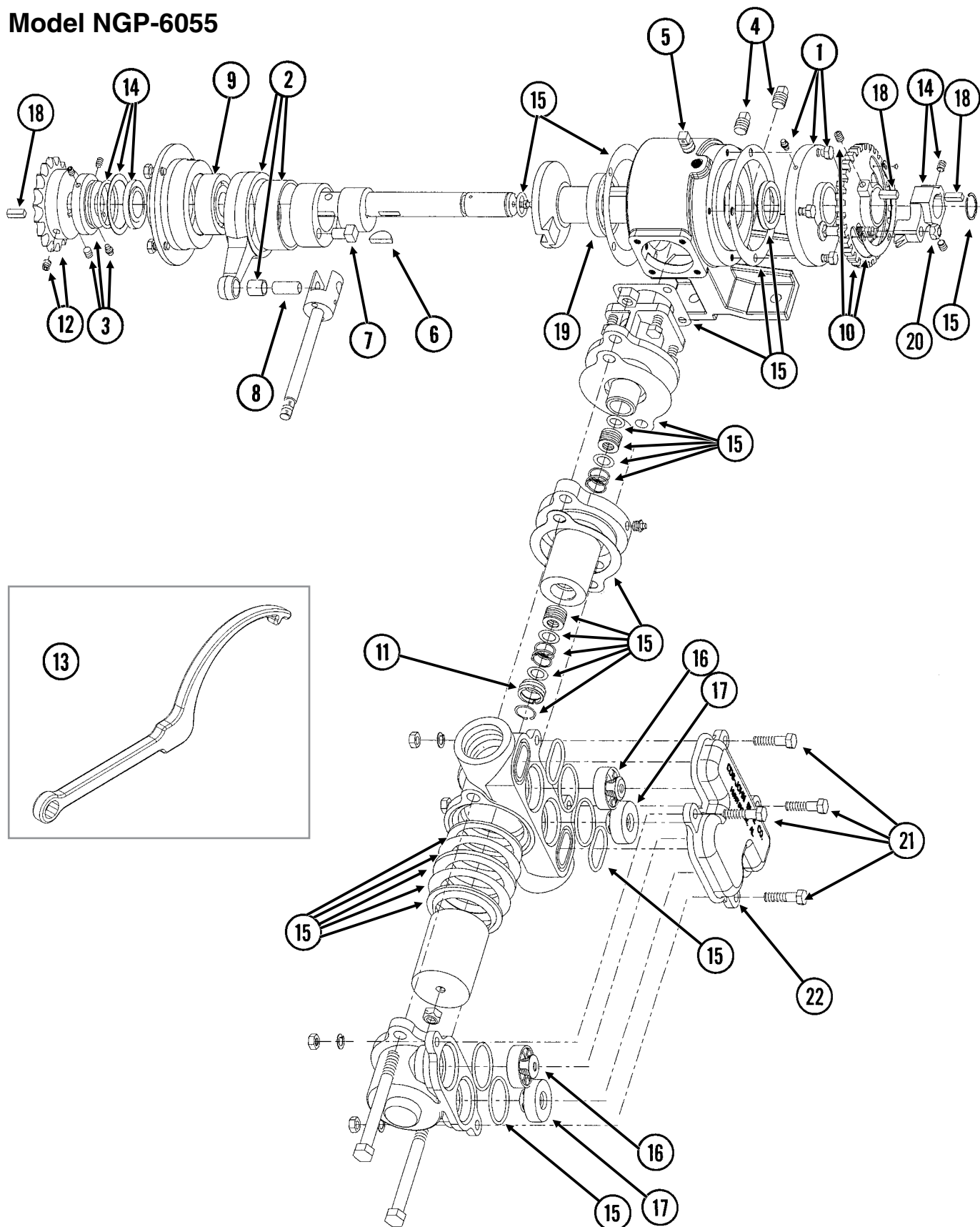
Model LM-2455-R



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1425	1	Repair Kit
2	GR1144	2	Discharge Valve
3	GR1423	1	Outboard Cylinder
4	GR1142	2	Suction Valve
5	GR1422	1	Inboard Cylinder
6	GR1134	1	Stuffing Box Insert
7	GR1133	1	Retaining Ring
8	GR1130	2	Packing Spring
9	GR1129	3	Washer
10	GR1451	1	Suction Manifold

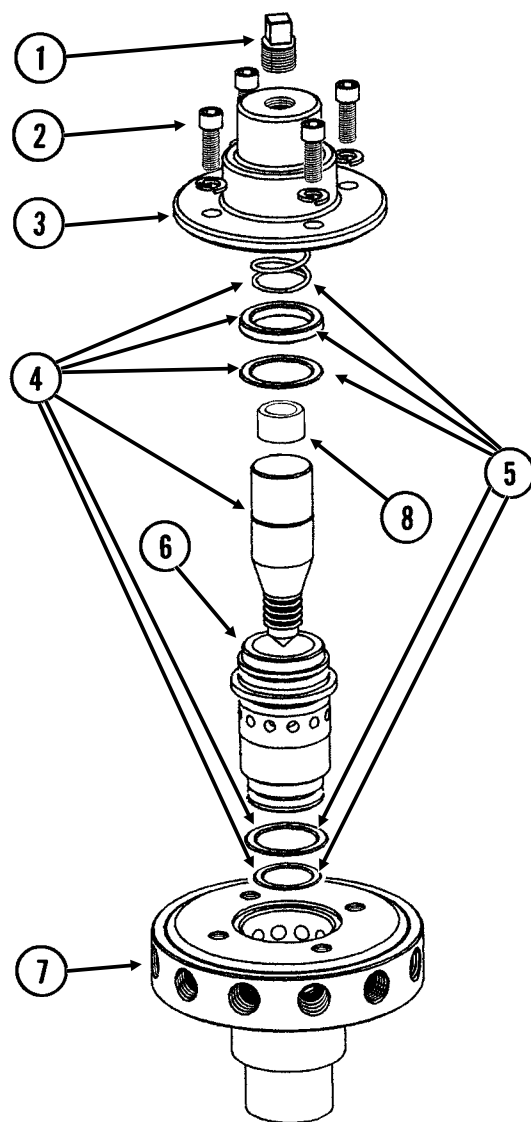
(A12335a/GR1808)

Model NGP-6055



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1804	1	Flange Cover Assembly
	G10991	4	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $\frac{7}{8}$ "
2	GR1802	1	Connecting Rod Assembly
3	GR1801	1	Spacer Assembly
	G10693	3	Hex Socket Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{8}$ "
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, $\frac{3}{8}$ "-16 x 2"
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
21	G10003	4	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1 $\frac{1}{2}$ "
	G11387	4	Flat Washer, $\frac{3}{8}$ " SAE
	G10229	4	Lock Washer, $\frac{3}{8}$ "
	G10101	4	Hex Nut, $\frac{3}{8}$ "-16
22	GR2003	1	Valve Cover
A	GA12330	-	Piston Pump Complete W/18 Tooth Sprocket (Model NGP-6055)

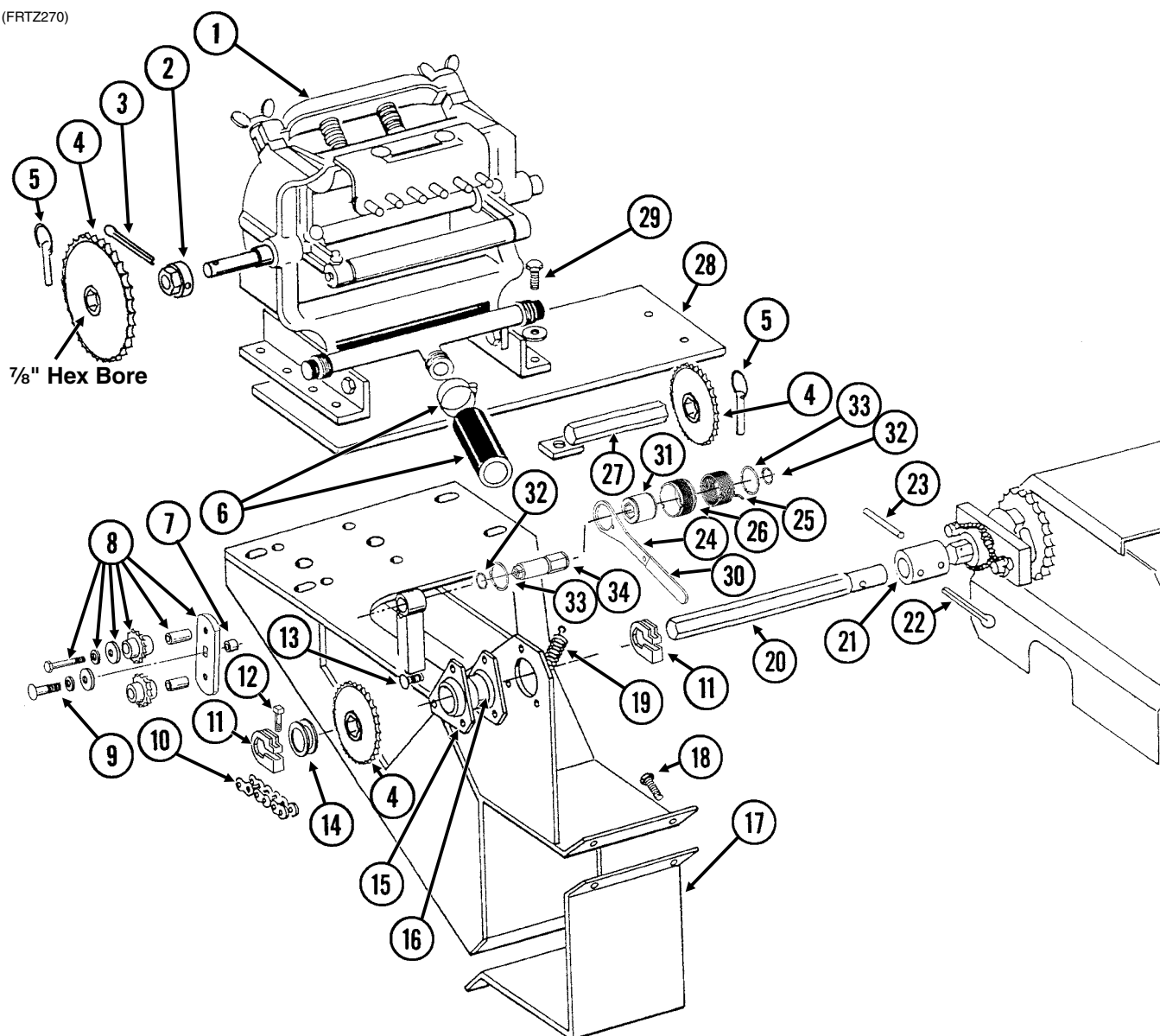
(FRTZ159/PT40a/FRTZ202c)

Model FD-1200 Flow Divider, 12 Outlet

3/4" NPT

ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1543	1	Vent Plug
2	GR1542	4	Hex Socket Head Screw, 1/4"-20 x 3/4"
	GR1541	4	Lock Washer, 1/4", 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 Outlet)
8	GR1574	1	Sleeve, 1" O.D. x 1/2" Long, Stainless Steel
A	GA8931	1	Liquid Fertilizer Piston Pump Flow Divider Complete, 12 Outlet (Model FD-1200)

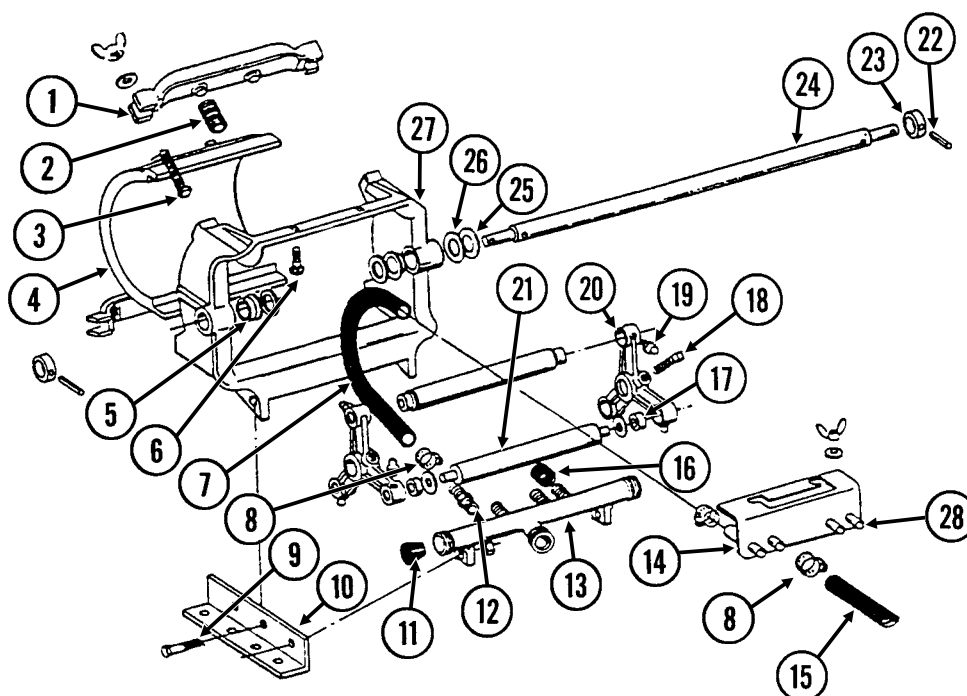
(FRTZ270)



ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Liquid Fertilizer Squeeze Pump, 4 Row" on page P131 See "Liquid Fertilizer Squeeze Pump, 6 Row" on page P132 See "Liquid Fertilizer Squeeze Pump, 8 Row" on page P133
2	GD7127	1	Shear Coupler
3	G10821 G10455	1	Clevis Pin, $\frac{3}{16}$ x 2" Cotter Pin, $\frac{1}{16}$ x $\frac{1}{2}$ "
4	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)
5	GD2558	2	Lynch Pin, $\frac{1}{4}$ "

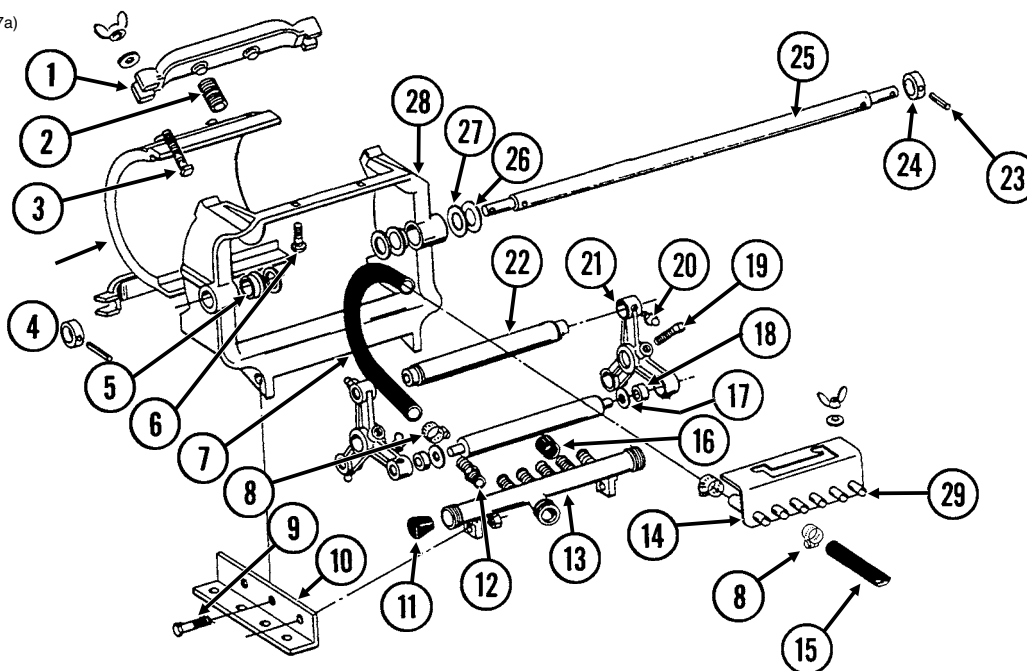
ITEM	PART NO.	QTY.	DESCRIPTION
6	---	-	See "Liquid Fertilizer Tanks, Saddle, Mounts, Hoses, and Fittings, 4 Row" on page P113 See "Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings, 6 and 8 Row" on page P115
7	GD2734-08	1	Sleeve, 1¼" O.D. x ⅝" Long
8	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth (Included W/GA7336)
	GD1026	-	Sleeve, 1⅜" 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 1¼" (Included W/GA7336)
9	G11100	1	Hex Socket Button Head Cap Screw, ¼"-20 x ½", Grade 8
	G10227	1	Lock Washer, ¼"
	G11385	1	Flat Washer, ¼" SAE
10	G3310-140	1	Chain, No. 40, 140 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
11	GD11045	2	Lock Clamp
12	G10130	2	Square Head Machine Bolt, ⅝"-18 x 1¾"
	G10923	2	Flange Nut, ⅝"-18, No Serration
13	G10303	3	Carriage Bolt, ⅝"-18 x 1"
	G10232	3	Lock Washer, ⅝"
	G10106	3	Hex Nut, ⅝"-18
14	G10233	-	Machine Bushing, 1", 10 Gauge
15	G3400-01	2	Flangette
16	G2100-03	1	Bearing, ⅞" Hex Bore, Spherical
17	GD15685	1	Clamp
18	G10017	4	Hex Head Cap Screw, ½"-13 x 1½"
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
19	GD5857	1	Spring
20	GD5988	-	Shaft, 36", 4 Row 30"/36"/38" and 6 Row 30"/36"/38"
	GD5990	-	Shaft, 74", 8 Row 30"
21	GD3839	1	Coupler, 2"
22	G10460	1	Cotter Pin, ¼" x 2"
23	G10602	1	Spring Pin, ¼" x 1½"
24	GD14431	1	Handle
25	GD14413	1	Torsion Spring, L.H. (Used On R.H. Wrap Spring Wrench)
26	GD19343	1	Release Collar, R.H.
27	GA5229	1	Sprocket Storage Rod
28	GD6165	-	Plate, 8 Row 30" Only
29	G10004	4	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G11387	4	Flat Washer, ⅜" SAE
	G10229	4	Lock Washer, ⅜"
	G10101	4	Hex Nut, ⅜"-16
30	G11078	1	Vinyl Cap
31	GD14432	1	Sleeve, 1¼"
32	G11075	2	External Inverted Snap Ring, ⅞"
33	G10496	2	External Inverted Snap Ring, 1½"
34	GD14427	1	Tightener Shaft, 4⅞"
A	G1K269	-	Lock Clamp Kit (Items 11 and 12)
B	G1K378	-	Wrap Spring Wrench Replacement Kit, Blue Collar, R.H., (Items 7, 9, 24-26 and 32-36)

LFC011(PT46a)

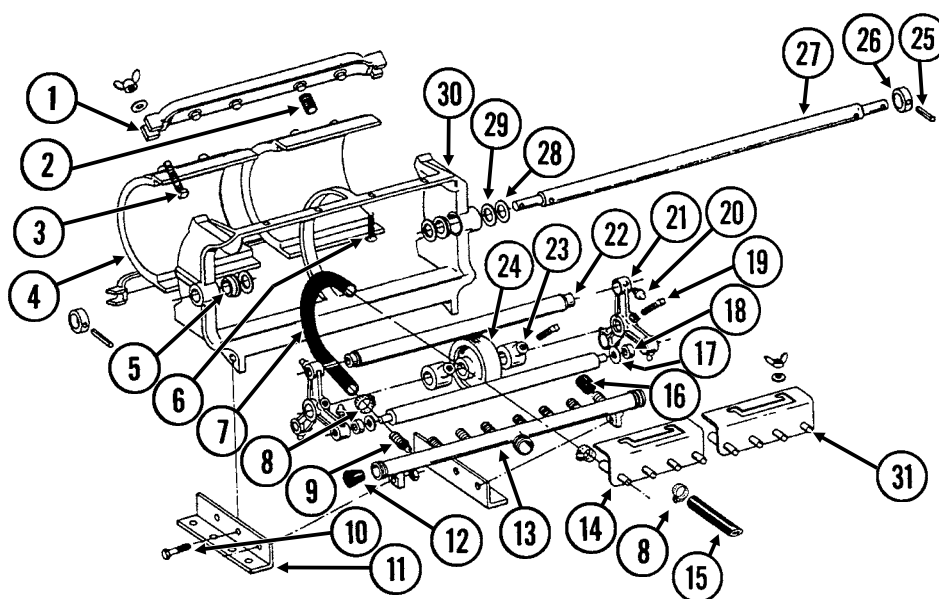


ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0216	2	Spring Anchor Bar
2	GR0214	4	Spring
3	G10130	4	Square Head Machine Bolt, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ "
	G11386	4	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	4	Wing Nut, $\frac{5}{16}$ "-18
4	GR0212	1	Plate
5	GR0207	2	Nylon Bushing
6	G10303	2	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G11386	2	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	2	Wing Nut, $\frac{5}{16}$ "-18
7	GR0215	4	Metering Hose, $\frac{1}{2}$ " x 13"
8	G10681	-	Hose Clamp, No. 6
9	G10004	4	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
	G10101	4	Hex Nut, $\frac{3}{8}$ "-16
10	GR0213	2	Angle
11	GR0217	2	Manifold Plug
12	GR0232	4	Adapter
13	GR0228	1	Intake Manifold
14	GR1484	1	Discharge Manifold Less Hose Barbs
15	G4301-01	1	Hose, $\frac{3}{8}$ " x 30'
16	GR0211	2	Rubber Cap
17	GR0227	6	Nylon Washer
18	G10131	2	Square Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "
19	G10640	2	Grease Fitting, $\frac{1}{4}$ "-28
20	GR0223	2	Roller Arm
21	GR0209	3	Roller
22	G10718	2	Spring Pin, $\frac{5}{16}$ " x $1\frac{1}{8}$ "
23	GD9109	2	Sleeve
24	GD9107	1	Shaft
25	GR0226	2	Shim, $\frac{3}{64}$ "
26	GR0225	2	Shim, $\frac{1}{32}$ "
27	GR0208	1	Frame
28	GR1577	4	Nylon Hose Barb, $\frac{1}{2}$ " x $\frac{3}{8}$ " (If Applicable)
A	GA8690	-	Squeeze Pump Complete, 4 Row (Items 1-14, 16-21 and 24-28)

LFC011/LFC011(PT47a)

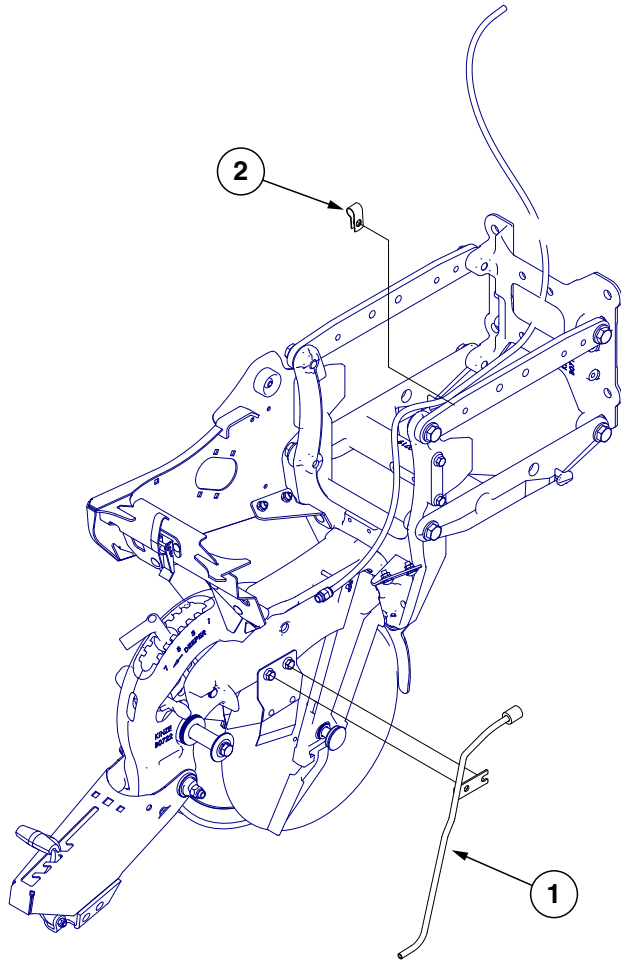


ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0216	2	Spring Anchor Bar
2	GR0214	4	Spring
3	G10130	4	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G11386	4	Flat Washer, 5/16" SAE
	G10144	4	Wing Nut, 5/16"-18
4	GR0212	1	Plate
5	GR0207	2	Nylon Bushing
6	G10303	2	Carriage Bolt, 5/16"-18 x 1"
	G11386	2	Flat Washer, 5/16" SAE
	G10144	2	Wing Nut, 5/16"-18
7	GR0215	6	Metering Hose, 1/2" x 13"
8	G10681	-	Hose Clamp, No. 6
9	G10004	4	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10101	4	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	G4301-03	1	Hose, 3/8" x 60'
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	GR0233	3	Roller
23	G10718	2	Spring Pin, 5/16" x 1 1/8"
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, 1/2" x 3/8" (If Applicable)
A	GA8691	-	Squeeze Pump Complete, 6 Row (Items 1-13, 15-22 and 25-29)

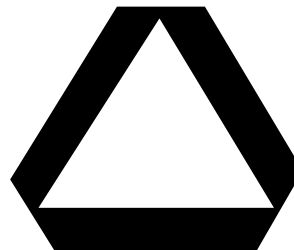
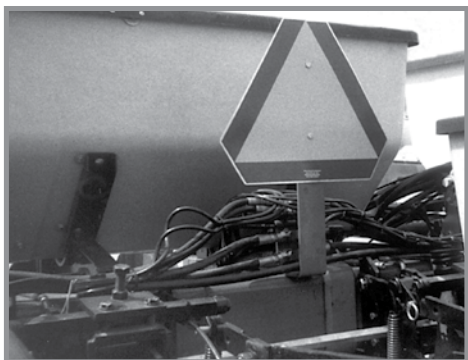


ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0221	2	Spring Anchor Bar
2	GR0214	8	Spring
3	G10130	4	Square Head Machine Bolt, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ "
	G11386	4	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	4	Wing Nut, $\frac{5}{16}$ "-18
4	GR0212	2	Plate
5	GR0207	2	Nylon Bushing
6	G10303	4	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G11386	4	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	4	Wing Nut, $\frac{5}{16}$ "-18
7	GR0215	8	Metering Hose, $\frac{1}{2}$ " x 13"
8	G10681	-	Hose Clamp, No. 6
9	GR0232	8	Adapter
10	G10004	4	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
	G10101	4	Hex Nut, $\frac{3}{8}$ "-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, $\frac{3}{8}$ " x 100'
16	GR0211	-	Rubber Cap
17	GR0229	6	Nylon Washer
18	GR1626	6	Bushing
19	G10131	2	Square Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "
20	G10640	8	Grease Fitting, $\frac{1}{4}$ "-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, $\frac{5}{16}$ " x $1\frac{1}{8}$ "
26	GD9109	2	Sleeve
27	GD9108	1	Shaft
28	GR0226	4	Shim, $\frac{3}{64}$ "
29	GR0225	4	Shim, $\frac{1}{32}$ "
30	GR0222	1	Frame
31	GR1577	8	Nylon Hose Barb, $\frac{1}{2}$ " x $\frac{3}{8}$ " (If Applicable)
A	GA8692	-	Squeeze Pump Complete, 8 Row (Items 1-14, 16-24 and 27-31)

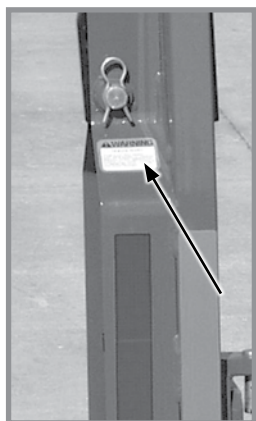
(A18821a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA18822	-	Liquid Fertilizer Tube
2	GD13348	-	Insulated Clamp, 1 ¹ / ₁₆ "



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



Conventional Row Marker



Low Profile Row Marker



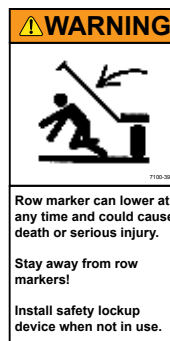
Part No.: G7100-42
Description: Decal, Warning (Prior to 2012 Production)
Quantity: 4 (2 Per Row Marker)



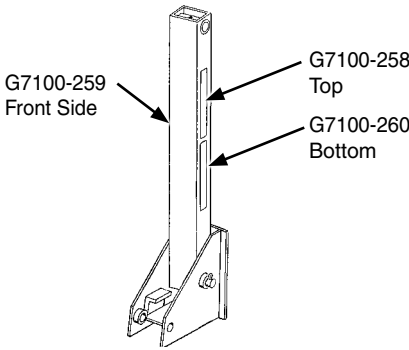
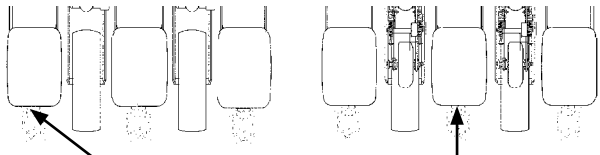
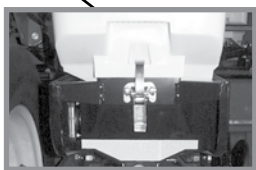
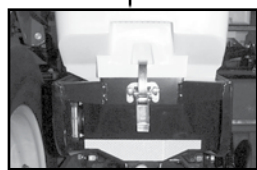
Conventional Row Marker

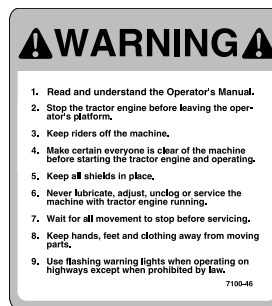


Low Profile Row Marker



Part No.: G7100-397
Description: Decal, Warning (2012 Production and on)
Quantity: 1 (Per Row Marker Cylinder - Conventional)
4 (2 Per Row Marker)

 G7100-259 Front Side G7100-258 Top G7100-260 Bottom	Part No.: G7100-258 Description: Reflective Decal, Red, 1½" x 9", Rectangular Quantity: 2 (1 Per Row Marker) (If Applicable) Part No.: G7100-259 Description: Reflective Decal, Amber, 1½" x 9", Rectangular Quantity: 2 (1 Per Row Marker) Part No.: G7100-260 Description: Reflective Decal, Orange, 1½" x 9", Rectangular Quantity: 2 (2 Per Row Marker)
  G7100-261  G7100-263  G7100-258  G7100-260 NOTE: Exceptions to above are 8 Row 30" planters. Red reflective decals are used on 1, 3, 6, and 8 row units. Orange reflective decals are used on 2, 4, 5, and 7 row units. (If Applicable)	Part No.: G7100-261 Description: Reflective Decal, Red, 1¾" x 9", Die-Cut Quantity: 2 (One per row unit located on the hopper support on the outside row unit on each end of the planter) (if applicable) Part No.: G7100-263 Description: Reflective Decal, Orange, 1¾" x 9", Die-Cut Quantity: 2 (One per row unit located on the hopper support on the second row unit in on each end of the planter) (if applicable) Part No.: G7100-258 Description: Reflective Decal, Red, 1½" x 9", Rectangular Quantity: 2 (One per row unit located on the granular chemical hopper panel extension on the outside row unit on each end of the planter) (If applicable) Part No.: G7100-260 Description: Reflective Decal, Orange, 1½" x 9", Rectangular Quantity: 2 (One per row unit located on the granular chemical hopper panel extension on the second row unit in on each end of the planter) (if applicable)



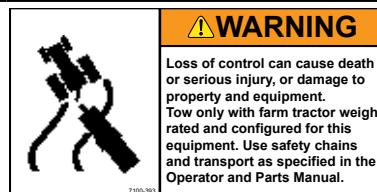
Part No.: G7100-46 (used prior to 2013 production)
Description: Decal, Warning
Quantity: 1



Part No.: G7100-90 (used prior to 2013 production)
Description: Decal, Warning
Quantity: 1

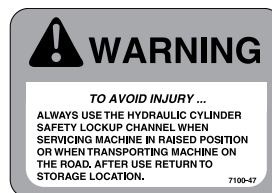
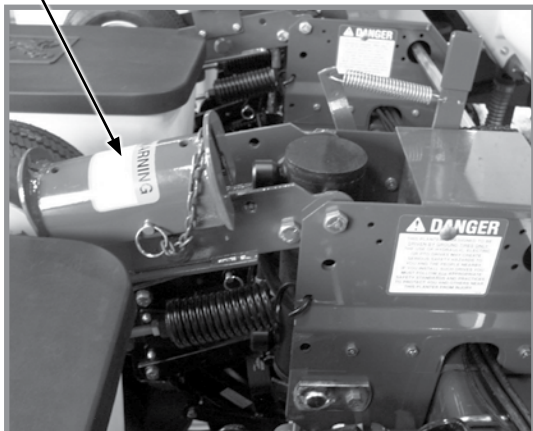


Part No.: G7100-302 (used prior to 2013 production) (replaced by G7100-393)
Description: Decal, Warning
Quantity: 1



Part No.: G7100-393 (replaces G7100-302) (2013 production)
Description: Decal, Warning
Quantity: 1

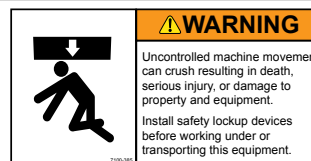
G7100-47
or
G7100-385



Part No.: G7100-47

Description: Decal, Warning (Prior to 2012 Production)

Quantity: 1 (Per Contact Wheel Assembly)



Part No.: G7100-385

Description: Decal, Warning (2012 Production and on)

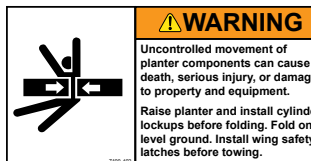
Quantity: 1 (Per Contact Wheel Assembly)



Part No.: G7100-89 (used prior to 2013 production) (replaced by G7100-402)

Description: Decal, Danger

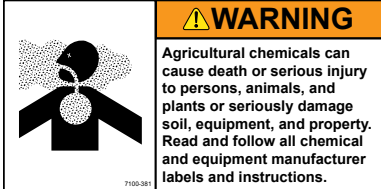
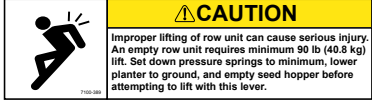
Quantity: 1 (Per Contact Wheel Assembly)

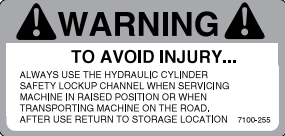
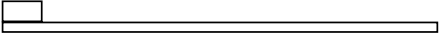


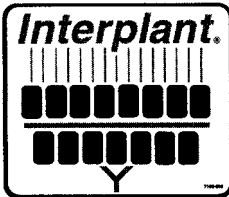
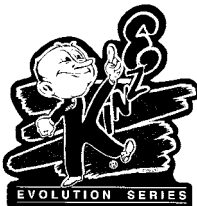
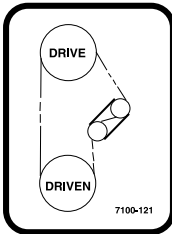
Part No.: G7100-402 (2013 production and on) (replaces G7100-89)

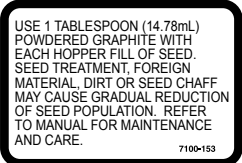
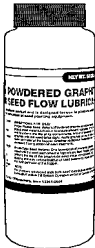
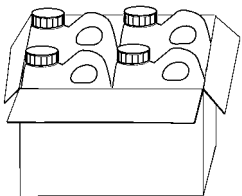
Description: Decal, Warning

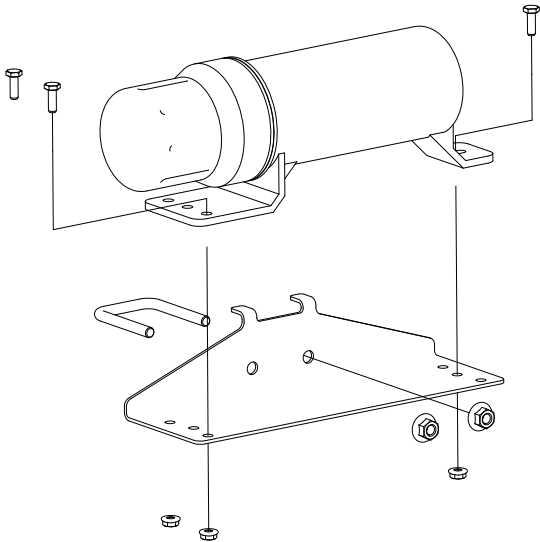
Quantity: 1 (Per Contact Wheel Assembly)

	
	Part No.: G7100-115 (used prior to 2013 production) (replaced by G7100-381) Description: Decal, Warning Quantity: 1 (1 Per Row Unit - Located On Underside Of Granular Chemical Hopper Lid)
	
	Part No.: G7100-381 (2013 production and on) (replaced by G7100-115) Description: Decal, Warning Quantity: 1 (1 Per Row Unit - Located On Underside Of Granular Chemical Hopper Lid)
	
	Part No.: G7100-249 Description: Decal, Caution (Prior to 2012 Production) Quantity: 1 (Located On Interplant Push Row Unit Lift Lever)
	
	Part No.: G7100-389 Description: Decal, Caution (2012 Production and on) Quantity: 1 (Located On Interplant Push Row Unit Lift Lever)

G7100-255 or G7100-385 	 WARNING KEEP CLEAR OF MECHANISM AT ALL TIMES. 7100-253 Part No.: G7100-253 (used prior to 2013 production) (replaced by G7100-390) Description: Decal, Warning Quantity: 2 (Located On Interplant Self-Leveling Hitch Extension)  WARNING Moving parts can pinch or crush and cause serious injury. Keep away at all times! 7100-390 Part No.: G7100-390 (2013 production and on) (replaces G7100-253) Description: Decal, Warning Quantity: 2 (Located On Interplant Self-Leveling Hitch Extension)  WARNING TO AVOID INJURY... ALWAYS USE THE HYDRAULIC CYLINDER SAFETY LOCKUP CHANNEL WHEN SERVICING MACHINE IN RAISED POSITION OR WHEN TRANSPORTING MACHINE ON THE ROAD. AFTER USE RETURN TO STORAGE LOCATION 7100-255 Part No.: G7100-255 Description: Decal, Warning (Prior to 2012 Production) Quantity: 1 (Located On Interplant Lift Cylinder Lockup)  WARNING Uncontrolled machine movement can crush resulting in death, serious injury, or damage to property and equipment. Install safety lockup devices before working under or transporting this equipment. 7100-385 Part No.: G7100-385 Description: Decal, Warning (2012 Production and On) Quantity: 1 (Located On Interplant Lift Cylinder Lockup)
	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"
ROTATE KNURLED COLLAR ON WRAP SPRING TIGHTENER TO RELEASE SPRING TENSION 7100-295	Part No.: G7100-295 Description: Decal, Spring Tension Release Quantity: -

	Part No.: G7100-104 Description: Decal, KINZE, 3" x 12" Quantity: 1
	Part No.: G7100-208 Description: Decal, Interplant Quantity: 2
	Part No.: G7100-247 Description: Decal, Logo, 4 $\frac{3}{8}$ " x 4 $\frac{1}{2}$ " Quantity: 2 (Per Row Unit) Part No.: G7100-252 Description: Decal, Logo, 3 $\frac{1}{2}$ " x 3 $\frac{5}{8}$ " (Hopper Panel Extension) Quantity: -
	Part No.: G7100-60 Description: Decal, Double Frame Quantity: 1
	Part No.: G7100-238 Description: Decal, 3000 Quantity: 1
G7100-217 NOTE It is the responsibility of the user to read and understand the Operator's Manual in regards to safety, operation, lubrication and maintenance before operation of this equipment. AN OPERATOR & PARTS MANUAL IS AVAILABLE FOR THIS MACHINE. To obtain a manual, furnish model number and serial number and contact your KINZE Dealer or KINZE Manufacturing, Inc., P.O. Box 806 Williamsburg, IA 52361-0806 USA G7100-387  WARNING Improper operation or servicing of this equipment can result in death or serious injury. Read and follow all instructions in the Operator and Parts Manual. Contact your Kinze dealer or go to www.kinze.com to order a replacement manual.	Part No.: G7100-217 (used prior to 2013 production) (replaced by G7100-387) Description: Decal, Note Quantity: 1
	Part No.: G7100-387 (2013 production and on) (replaces G7100-217) Description: Decal, Warning Quantity: 1
TORQUE 5/8" SPINDLE BOLTS TO 120 FT/LBS. (162.7 Nm). CHECK PERIODICALLY AND RE-TORQUE AS NEEDED.	Part No.: G7100-234 Description: Decal, Bolt Torque Quantity: -
	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.: G7100-111 Description: Decal, Oil Daily Quantity: -
	Part No.: G7100-116 Description: Decal, Grease Daily Quantity: -
	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.: G7100-292 Description: Decal, KINZE 3000 (Prior to 2011 production) Quantity: 2 (1 On Each Side of Hitch)
	Part No.: G7100-363 Description: Decal, KINZE 3000 (2011 production and on) Quantity: 2 (1 On Each Side of Hitch)
	Part No.: GM0188-01 Description: Operator Manual, Model 3000 (Mechanical Seed Metering) Part No.: GM0188-02 Description: Parts Manual, Model 3000 (Mechanical Seed Metering) Part No.: GPR1094 Description: Binder (Contact Kinze Parts To Order)
	Part No.: GA15422 Description: Operator's Manual Canister Quantity: 1
	Part No.: GD22685 Description: Manual Canister Bracket Quantity: 1
	Part No.: GD22692 Description: U-Bolt, 1$\frac{3}{4}$" x 1$\frac{3}{4}$" x $\frac{3}{8}$"-16 Quantity: 1
	Part No.: G11091 Description: Serrated Flange Nut, $\frac{3}{8}$"-16 Quantity: 2
	Part No.: G11166 Description: Hex Socket Flange Cap Screw, $\frac{1}{4}$"-20 x $\frac{3}{4}$" Quantity: 3
	Part No.: G10621 Description: Serrated Flange Nut, $\frac{1}{4}$"-20 Quantity: 3
	Part No.: G7100-484 Description: Decal, American Flag

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
*A1000.....	P80	*A3135.....	P80	*D12235.....	P72	G1K362.....	P86
*A1000.....	P82	*A3135.....	P82	*D12236.....	P71	G1K362.....	P88
*A1013.....	P82	*A3136.....	P78	*D12236.....	P72	G1K362.....	P91
*A1018.....	P78	*A3137.....	P82	*D12251.....	P68	G1K363.....	P86
*A1018.....	P80	*A3142.....	P78	*D12251.....	P69	G1K363.....	P88
*A1018.....	P82	*A3142.....	P80	*D12251.....	P70	G1K363.....	P91
*A1019.....	P80	*A3142.....	P80	*D12256.....	P71	G1K378.....	P59
*A1019.....	P82	*A3142.....	P82	*D12256.....	P72	G1K378.....	P119
*A1020.....	P78	*A3142.....	P82	*D12275.....	P70	G1K378.....	P130
*A1020.....	P78	*A3143.....	P82	*D12277.....	P71	G1K385.....	P26
*A1020.....	P78	*A3147.....	P78	*D12277.....	P72	G1K531.....	P38
*A1020.....	P82	*A3147.....	P80	*D12279.....	P69	G1K534.....	P42
*A1021.....	P78	*A3147.....	P82	*D12280.....	P68	G1K535.....	P42
*A1021.....	P82	*A3150.....	P80	*D29649.....	P68	G306-08.....	P78
*A1039.....	P82	*A3150.....	P82	*D29649.....	P69	G306-08.....	P80
*A1044.....	P82	*A3175.....	P80	*D29692.....	P71	G306-08.....	P82
*A1054.....	P82	*A3208.....	P80	*D29692.....	P72	G2100-03.....	P54
*A1055.....	P82	*A3208.....	P82	*D30399.....	P70	G2100-03.....	P59
*A1076.....	P78	*A3209.....	P82	G1K215.....	P96	G2100-03.....	P118
*A1076.....	P78	*A3211.....	P78	G1K248.....	P84	G2100-03.....	P130
*A1076.....	P80	A4295.....	P68	G1K248.....	P86	G2403-06.....	P78
*A1076.....	P80	A7370.....	P54	G1K248.....	P88	G2403-08.....	P78
*A1076.....	P82	A7538.....	P69	G1K248.....	P91	G2403-08.....	P78
*A1076.....	P82	A8011.....	P48	G1K249.....	P88	G2403-08.....	P80
*A1079.....	P82	A8012.....	P48	G1K249.....	P90	G2403-08.....	P82
*A1086.....	P80	A8013.....	P48	G1K252.....	P84	G2603-08.....	P80
*A1090.....	P82	A8014.....	P48	G1K252.....	P86	G2603-08.....	P82
*A1102.....	P78	A8015.....	P48	G1K252.....	P88	G2603-08-08-06.....	P78
*A1105.....	P80	A8016.....	P48	G1K252.....	P91	G2603-08-08-06.....	P80
*A1138.....	P78	A8017.....	P48	G1K253.....	P54	G2701-08.....	P78
*A1138.....	P80	A8018.....	P48	G1K267.....	P86	G2703-08.....	P80
*A1150.....	P78	A8019.....	P48	G1K267.....	P88	G2703-08.....	P82
*A1153.....	P78	A8020.....	P48	G1K267.....	P90	G3303-16.....	P2
*A1168.....	P80	A8775.....	P71	G1K268.....	P86	G3303-96.....	P42
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