

MODEL 3500 TWIN-LINE PLANTER PARTS MANUAL

M0240-02

Rev. 5/14

This manual is applicable to: Model: 3500 Twin-Line Planters
 Serial Number: 902498 to 2014 Production (EdgeVac)
 902911 to 2014 Production (Mechanical)

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

Serial Number _____

Date Purchased _____

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

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

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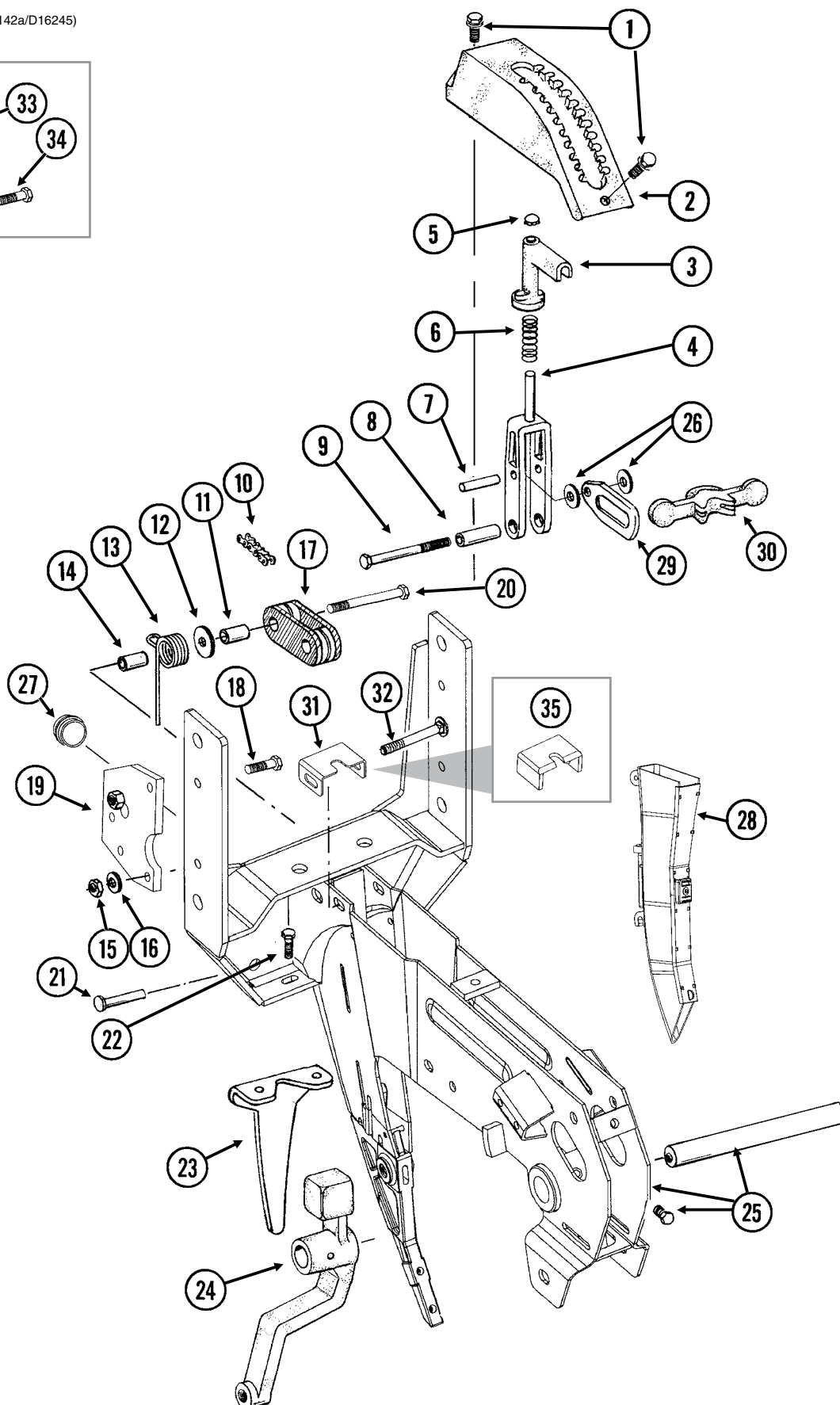
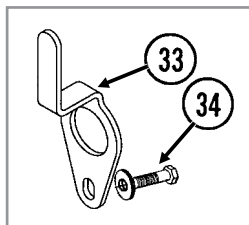
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MISCELLANEOUS

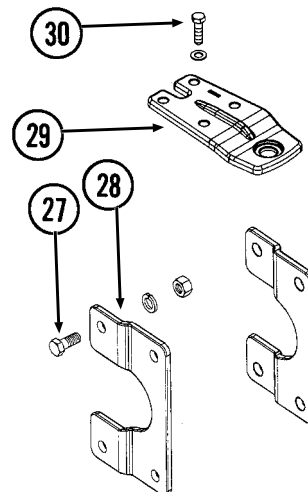
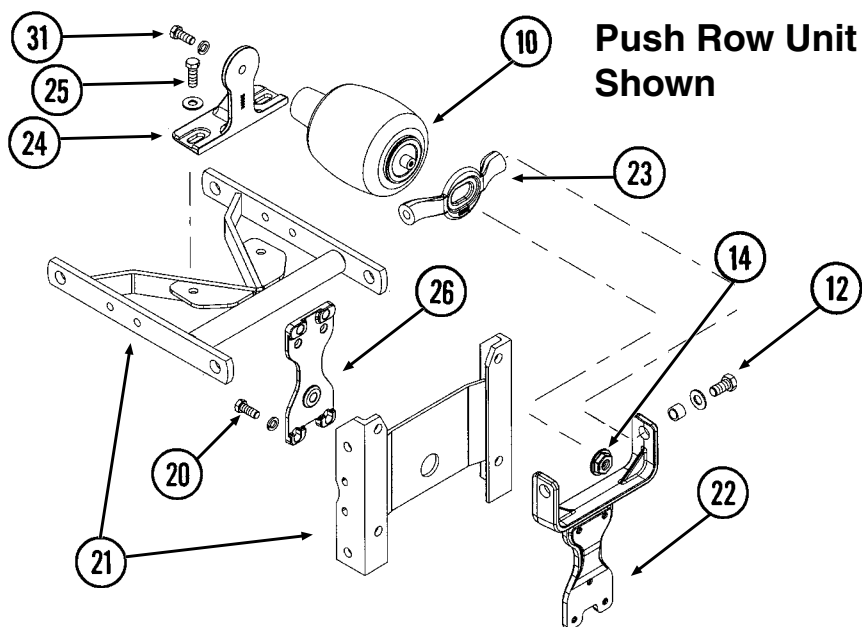
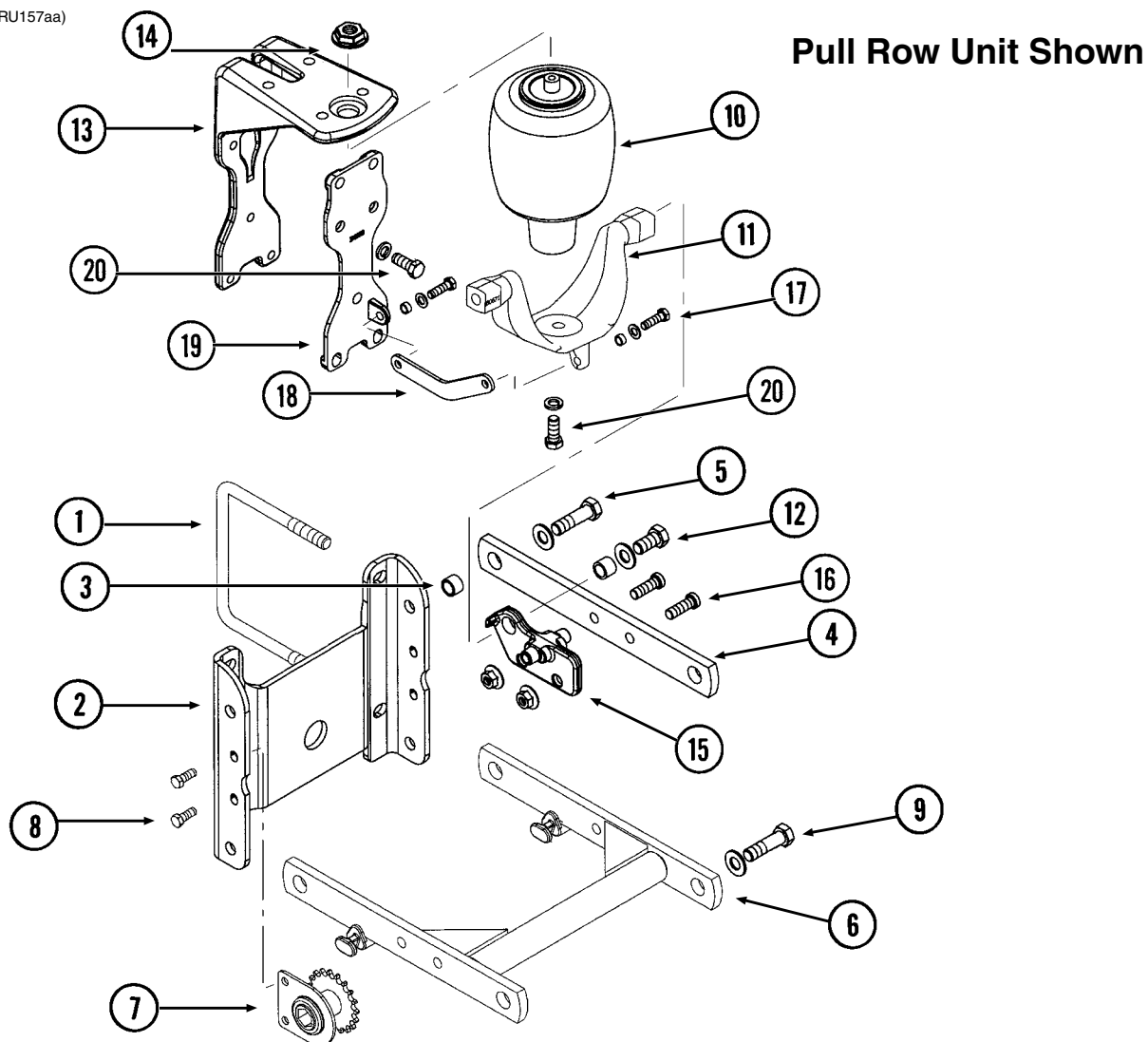
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(D17014/METR29cc/A10142a/D16245)



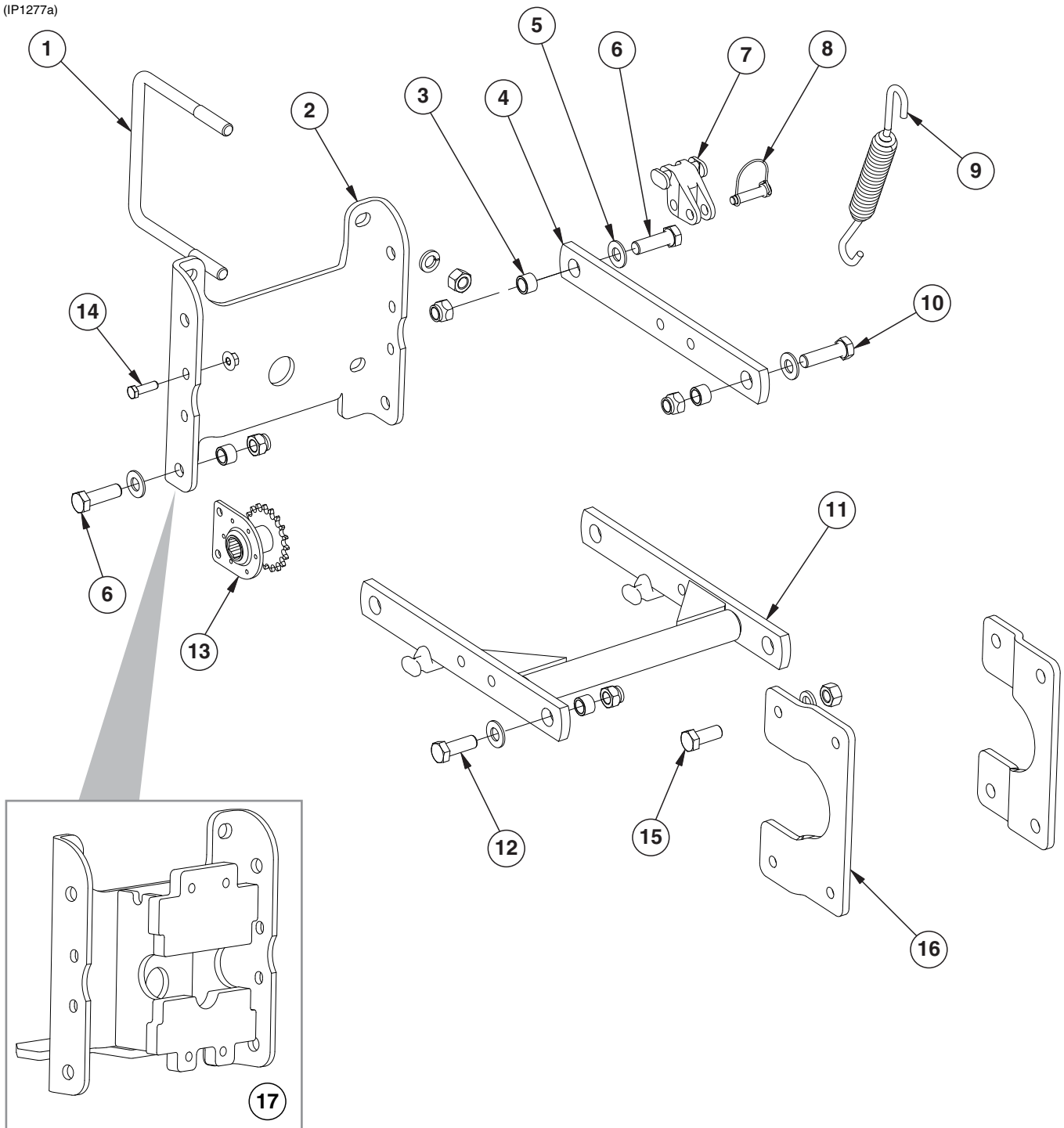
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11015	2	Hex Washer Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
2	GB0274	1	Cover, Depth Adjustment
3	GB0266	1	Handle, Depth Adjustment
4	GB0267	1	Lever, Depth Adjustment
5	GD3612	1	Cap Plug
6	GD10993	1	Spring
7	GD13361	1	Pin, $\frac{3}{8}$ " x $1\frac{2}{3}$ "
8	GD11259	1	Sleeve, $\frac{3}{8}$ " I.D. x $\frac{5}{8}$ " O.D. x $1\frac{25}{32}$ " Long
9	G11592	1	Hex Head Cap Screw, $\frac{3}{8}$ "-24 x $2\frac{3}{4}$ ", Grade 8
	G11591	1	Nylon Lock Nut, $\frac{3}{8}$ "-24, Grade C
10	G3303-108	1	Chain, No. 41, 108 Pitch Including Connector Link (EdgeVac)
	G3303-98	-	Chain, No. 41, 98 Pitch Including Connector Link (Mechanical)
	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, $1\frac{3}{16}$ " Long
12	G10201	1	Special Washer, $\frac{3}{8}$ " x $1\frac{1}{2}$ " O.D.
13	GD1065	1	Idler Spring
14	GD7318	1	Sleeve, 1" Long
15	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
16	G11387	1	Flat Washer, $\frac{3}{8}$ " SAE
17	GD11962	1	Idler
18	G10003	3	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{2}$ "
	G10108	3	Lock Nut, $\frac{3}{8}$ "-16
19	GD24545	2	Stop
20	G10326	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $3\frac{3}{4}$ "
21	G10551	1	Clevis Pin, $\frac{1}{4}$ " x $2\frac{1}{2}$ "
	G10669	1	Hair Pin Clip, No. 22
22	G10312	2	Carriage Bolt, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "
	G10620	2	Serrated Flange Nut, $\frac{5}{16}$ "-18
23	GD28390	1	Shield
24	---	-	See "Gauge Wheels" on page P10
25	GA10157	1	Shank W/Gauge Wheel Pivot Spindle And Set Screw
	GD11001	-	Spindle
	G10438	-	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $\frac{3}{4}$ "
26	G10207	2	Washer, $\frac{7}{8}$ " O.D. x $1\frac{13}{32}$ " I.D. x .134" (If Applicable)
27	GD11845	1	Dust Cap
28	---	-	See "KPM I Electronic Seed Monitor" on page P103 See "KPM II Stack-Mode Electronic Seed Monitor" on page P105 See "KPM III Electronic Seed Monitor" on page P107
29	GB0285	1	Collar, Depth Adjustment
30	GB0265	1	Pivot Link, Depth Adjustment
31	GD15970	1	Sun Shade
32	G10304	1	Carriage Bolt, $\frac{3}{8}$ "-16 x 3"
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
33	GD17014	1	Hose Guide
34	G10047	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{3}{4}$ "
	G11387	2-3	Flat Washer, $\frac{3}{8}$ " SAE
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
35	GD16245	-	Sun Shade (Rubber)

(RU157a/RU159/RU157aa)



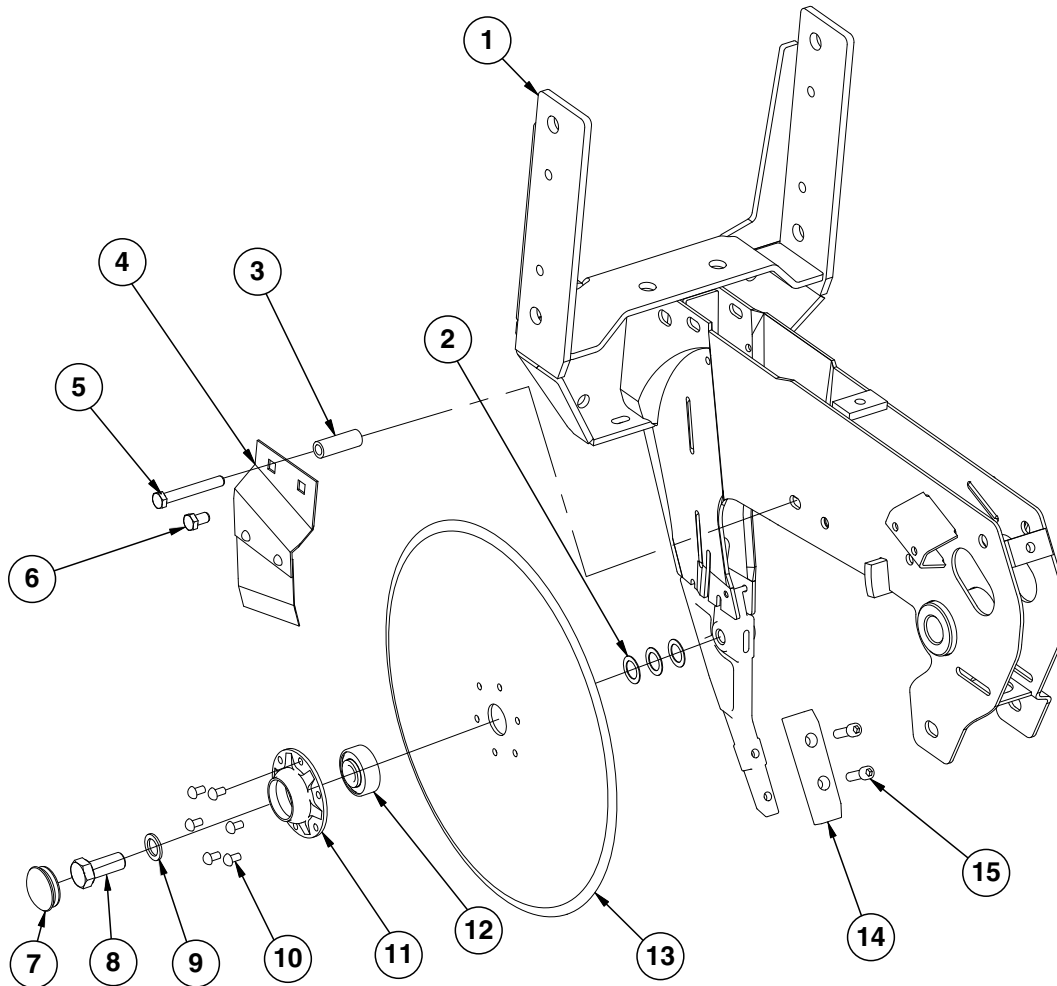
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
2	GD10036	1	Mounting Support Plate
3	GB0218	4	Bushing, 21/32" I.D. x 7/8" O.D. x 19/32" Long
4	GD11422	2	Upper Parallel Arm
5	G10732	4	Hex Head Cap Screw, 5/8"-18 x 2"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

(IP1277a)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
2	GD10036	1	Mounting Support Plate
3	GB0218	8	Bushing, 2 1/32" I.D. x 7/8" O.D. x 1 9/32" Long
4	GD11422	2	Upper Parallel Arm
5	G11391	8	Flat Washer, 5/8" SAE
6	G10732	4	Hex Head Cap Screw, 5/8"-18 x 2"
	G10412	4	Lock Nut, 5/8"-18
7	GB0186	2	Spring Anchor
8	GD14217	2	Tab Lock Pin, 7/16" x 1 1/2"
9	GD8249	4	Standard Down Pressure Spring
	GD21337	-	Heavy Duty Down Pressure Spring
10	G10752	2	Hex Head Cap Screw, 5/8"-18 x 2 1/4"
	G10412	2	Lock Nut, 5/8"-18
11	GA5651	1	Lower Parallel Arm
12	G10751	2	Hex Head Cap Screw, 5/8"-18 x 1 3/4"
	G10412	2	Lock Nut, 5/8"-18
13	GA1720	1	Bearing/Sprocket, 7/8" Hex Bore
14	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G11091	2	Serrated Flange Nut, 3/8"-16
15	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
16	GB0366	2	Extension Bracket
17	GA18724	-	Row Unit Mount (Optional on 4 Center Row Units When Using Frame Mounted Coulters with Residue Wheels Along with GB0366 Extension Bracket)
A	G6325X	-	U-Bolt Package For 5" x 7" Toolbar, Includes: (2) GD1113, (4) G10230, (4) G10104

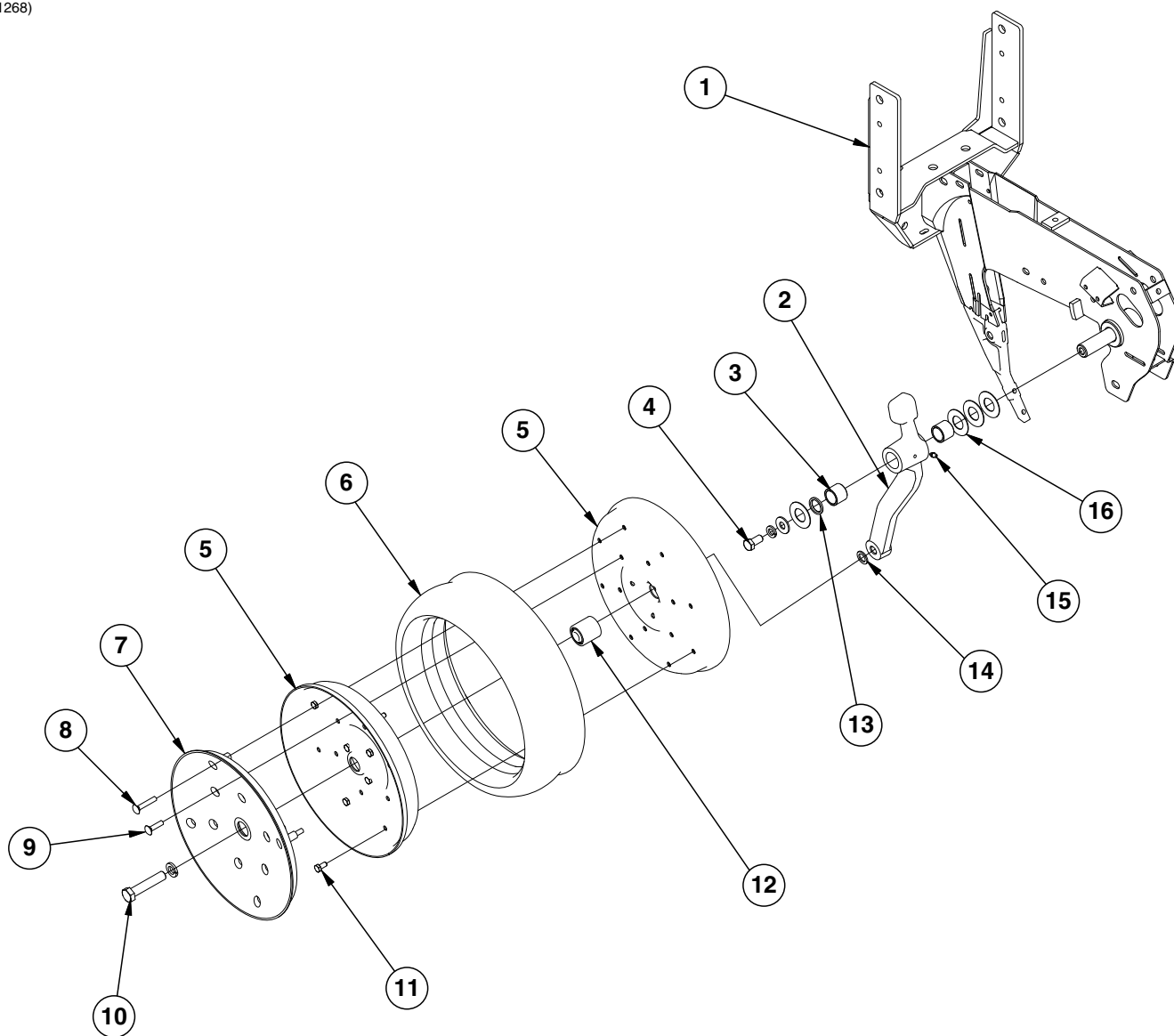
(RU139)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	---	-	See "Shank Assembly, Seed Tube, and Depth Adjustment" on page P1
2	G10213	-	Machine Bushing, $\frac{5}{8}$ " (.030" Thick)(As Required)
3	GD11259	1	Sleeve, $\frac{3}{8}$ " I.D. x $\frac{5}{8}$ " O.D. x $1\frac{25}{32}$ " Long
4	GA2012R GA2012L	1 -	Disc Scraper, R.H. Disc Scraper, L.H. (Shown)
5	G10325 G10622	1 1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $2\frac{3}{4}$ " Serrated Flange Nut, $\frac{3}{8}$ "-16
6	G10328 G10622	2 1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $\frac{5}{8}$ " Serrated Flange Nut, $\frac{3}{8}$ "-16
7	GD11845	2	Dust Cap
8	GD11017	1	Special Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{1}{2}$ ", L.H. Threads
9	G10204	2	Special Machine Bushing, $\frac{5}{8}$ " x 1" O.D.
10	G10427	12	Rivet, $\frac{1}{4}$ " x $\frac{1}{2}$ "
11	GD10473	2	Bearing Housing
12	GA2014	2	Bearing
13	GD11306	2	Disc Blade, 3.5 mm x 15"
14	GB0301	1	Seed Tube Guard/Inner Scraper
15	G10912	2	Hex Socket Head Cap Screw, $\frac{5}{16}$ "-18 x 1", Grade 8
A	GA8324	-	Disc Blade/Bearing Assembly, Less Dust Cap (Items 10-13)

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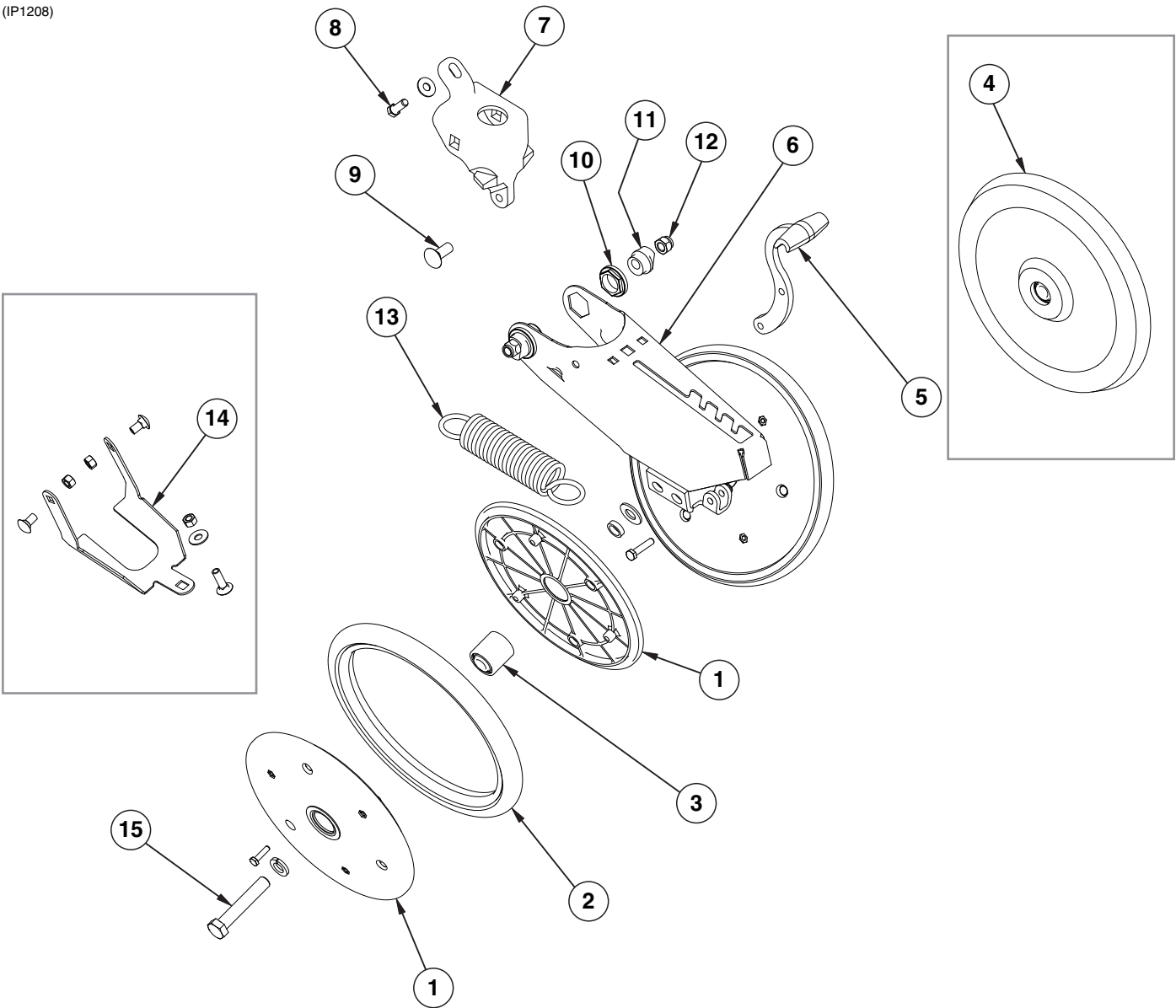
(IP1268)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	---	-	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	GD11423	4	Half Wheel
6	GD1086	2	Tire
7	GD11453	2	Cover
8	G10924	8	Carriage Bolt, ⅝"-18 x 1¾"
	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

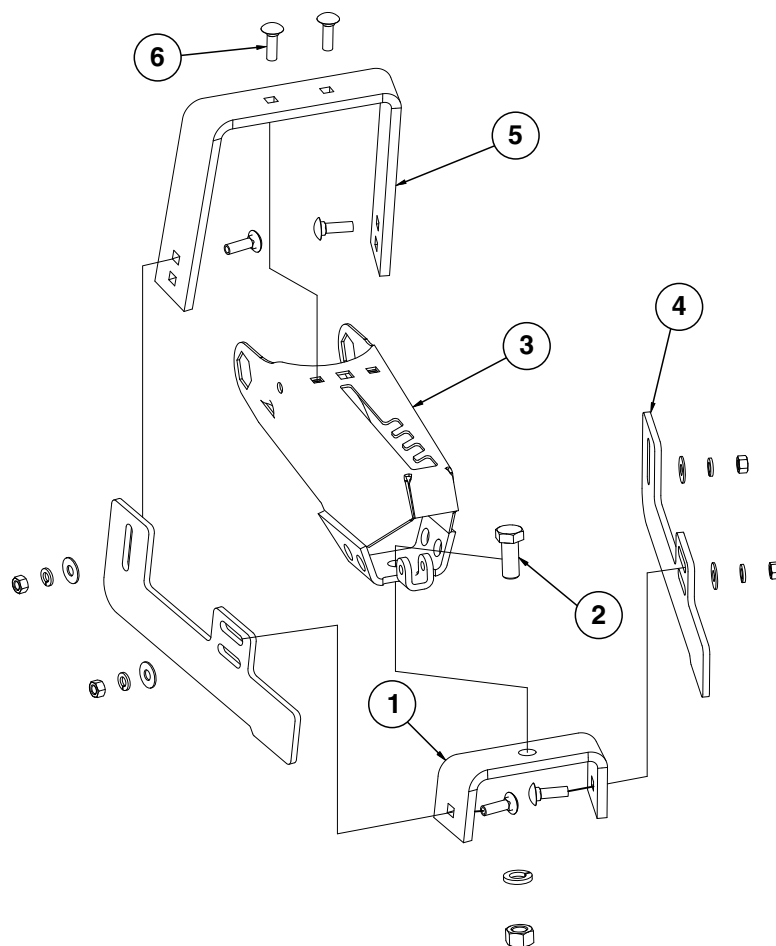
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	1	Flat Washer, 3/8" SAE
2	GB0268	1	Wheel Arm Stop
3	G10801	2	Carriage Bolt, 1/2"-13 x 2 1/4"
	G10315	-	Carriage Bolt, 1/2"-13 x 2 1/2" (Used W/Straight Drop In-Furrow Granular Chemical Bracket)
	G10102	2	Hex 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	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
	GD14065	1	Closing Wheel Shield
	G10599	1	Carriage Bolt, 3/8"-16 x 1 1/4"
	G10308	2	Carriage Bolt, 3/8"-16 x 3/4"
	G10101	3	Hex Nut, 3/8"-16
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
A	GA6434	-	Rubber Closing Wheel Complete W/Bearing (Items 1-3)

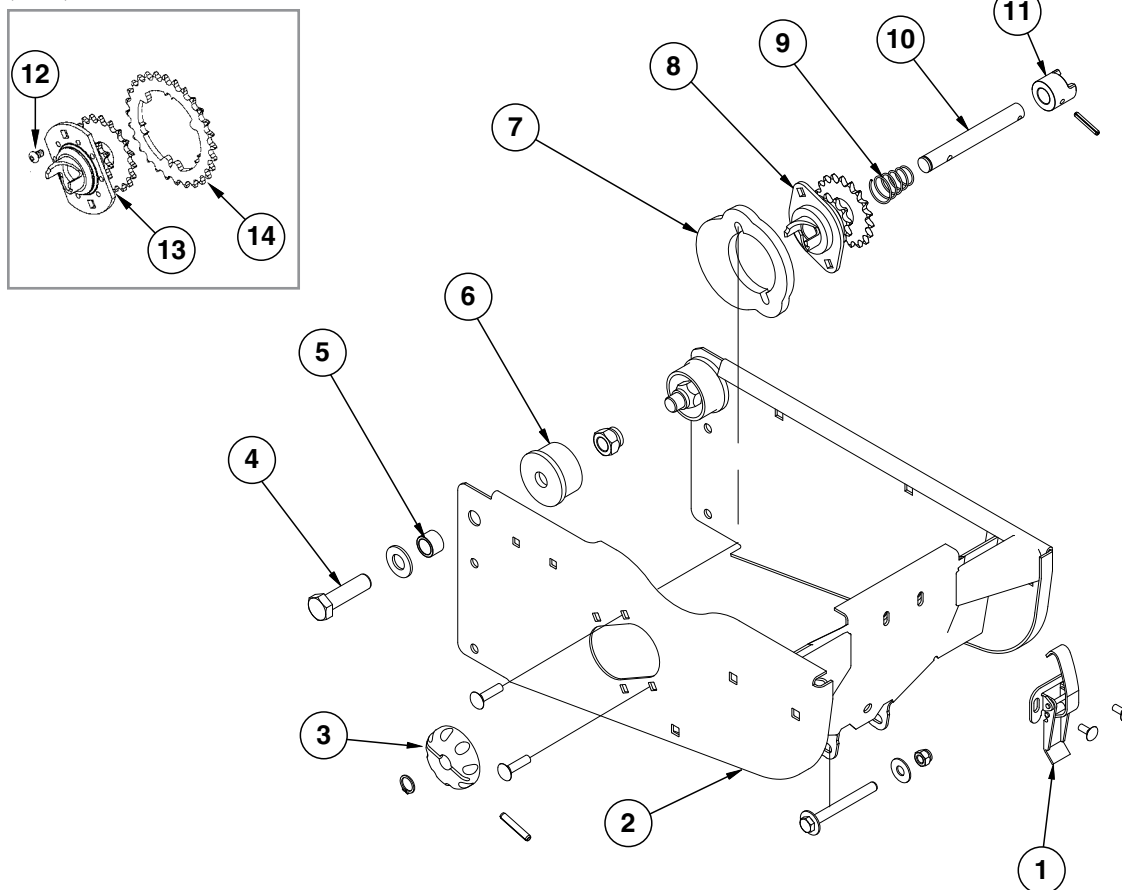
(IP1202)



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	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)

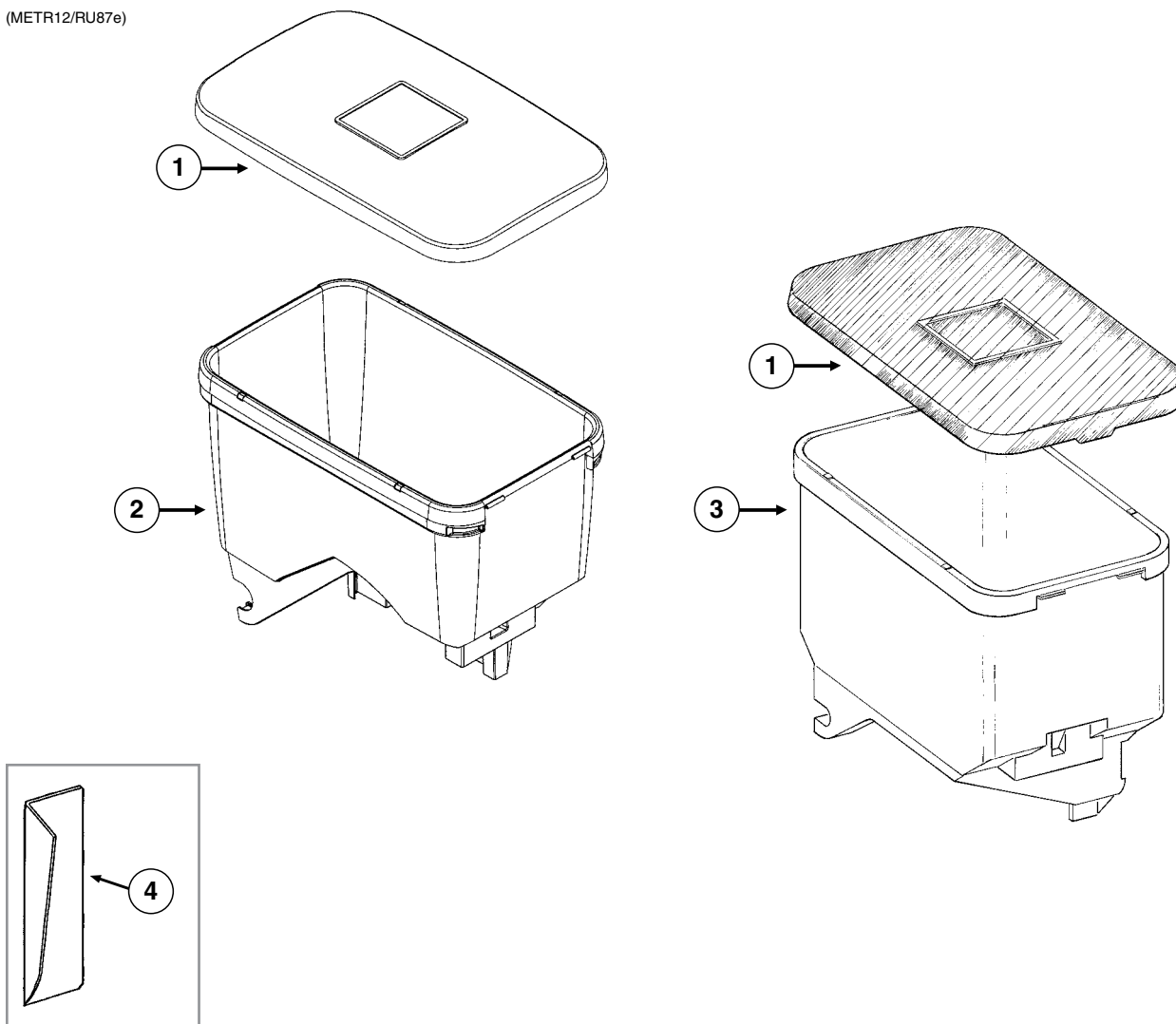
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(IP1209)



ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA2007	1	Hopper Hold Down Latch
	G10621	2	Serrated Flange Nut, 1/4"-20
	G10309	2	Carriage Bolt, 1/4"-20 x 5/8", Grade 2
2	GA10155	1	Hopper Support
	G10061	1	Hex Head Cap Screw, 3/8"-16 x 3 1/2"
	G11387	2	Flat Washer, 3/8" SAE
	G10108	1	Lock Nut, 3/8"-16
3	GD11239	1	Knob
	G10602	1	Spring Pin, 1/4" x 1 1/2"
	G10567	1	External Retaining Ring, 5/8"
4	G10752	2	Hex Head Cap Screw, 5/8"-18 x 2 1/4"
	G11391	2	Flat Washer, 5/8" SAE
	G11514	2	Lock Nut, 5/8"-18
5	GB0218	2	Bushing, 2 1/32" I.D. x 7/8" O.D. x 1 9/32" Long
6	GB0314	2	Hopper Mount
7	GB0331	1	Clutch Adapter Plate
	G10620	2	Serrated Flange Nut, 5/16"-18
	G10338	2	Carriage Bolt, 5/16"-18 x 1 1/4"
8	GA12143	1	Double Sprocket And Bearing, Drive Clutch, 11/28 Tooth (EdgeVac)
	GA10137	-	Double Sprocket and Bearing, Drive Clutch, 11/19 Tooth (Mechanical)
9	GD11413	1	Spring
10	GD15747	1	Shaft
11	GB0278	1	Coupler
	G10546	1	Spring Pin, 3/16" x 1 1/4"
12	G11222	3	Hex Socket Button Head Cap Screw, 5/16"-18 x 1/2", Stainless Steel
	G10620	3	Serrated Flange Nut, 5/16"-18
13	GA10137	1	Double Sprocket And Bearing, Drive Clutch, 11/19 Tooth
14	GD17192	1	Bolt-On Sprocket, 28 Tooth
A	GA12144	-	Meter Drive Assembly, 11/28 Tooth (Items 3 And 8-11) (EdgeVac)
B	GA10151	-	Meter Drive Assembly, 11/19 Tooth (Items 3 and 8-11) (Mechanical)

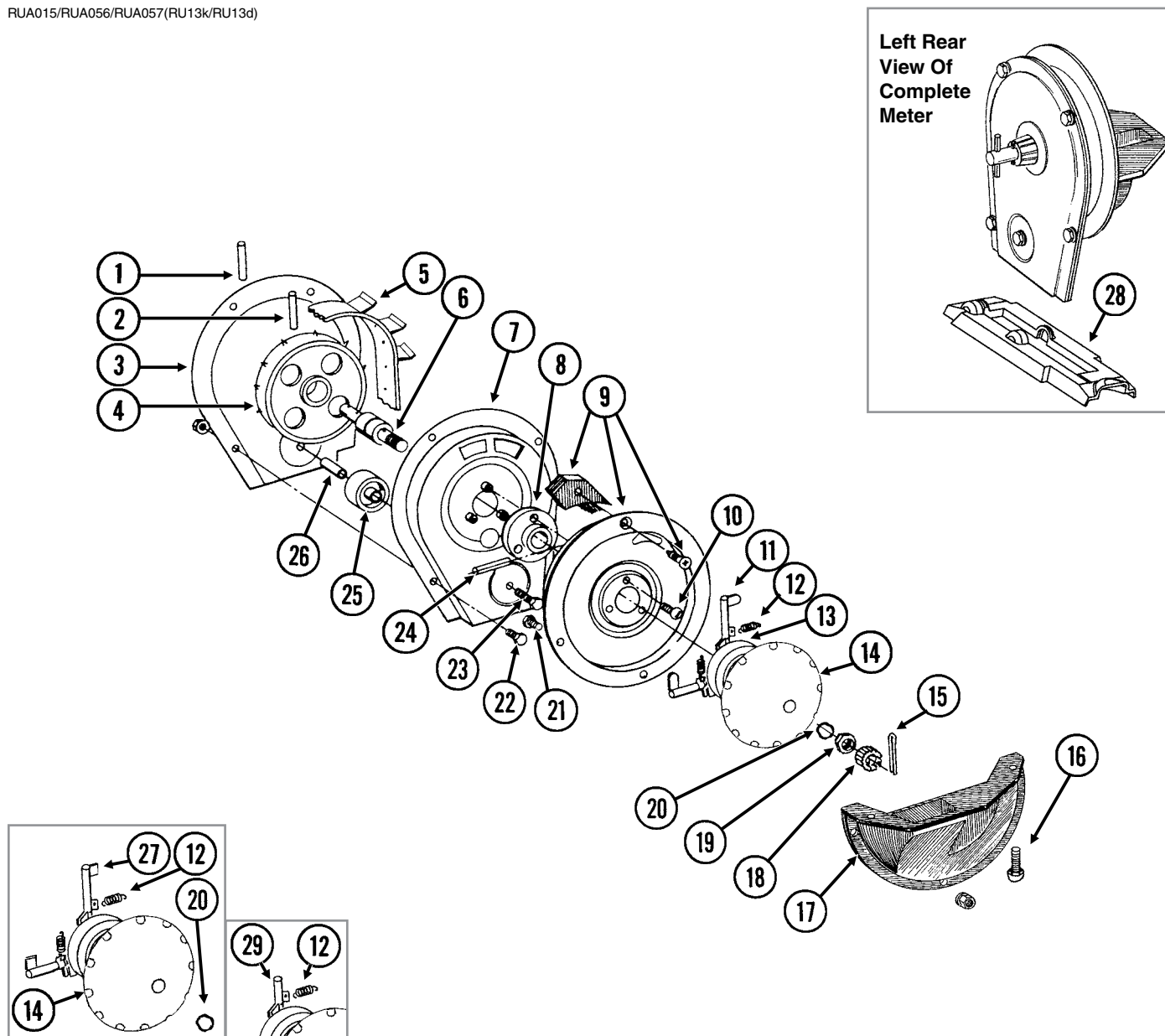
(METR12/RU87e)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GD11279	1	Lid
2	GA10634	1	Seed Hopper (EdgeVac)
	GD12561	-	Threaded Insert, 5/16"-18
3	GA9714	1	Seed Hopper, Reinforced (Mechanical)
	GD12561	-	Threaded Insert, 5/16"-18
4	GD11747	1	Seed Reserve Baffle

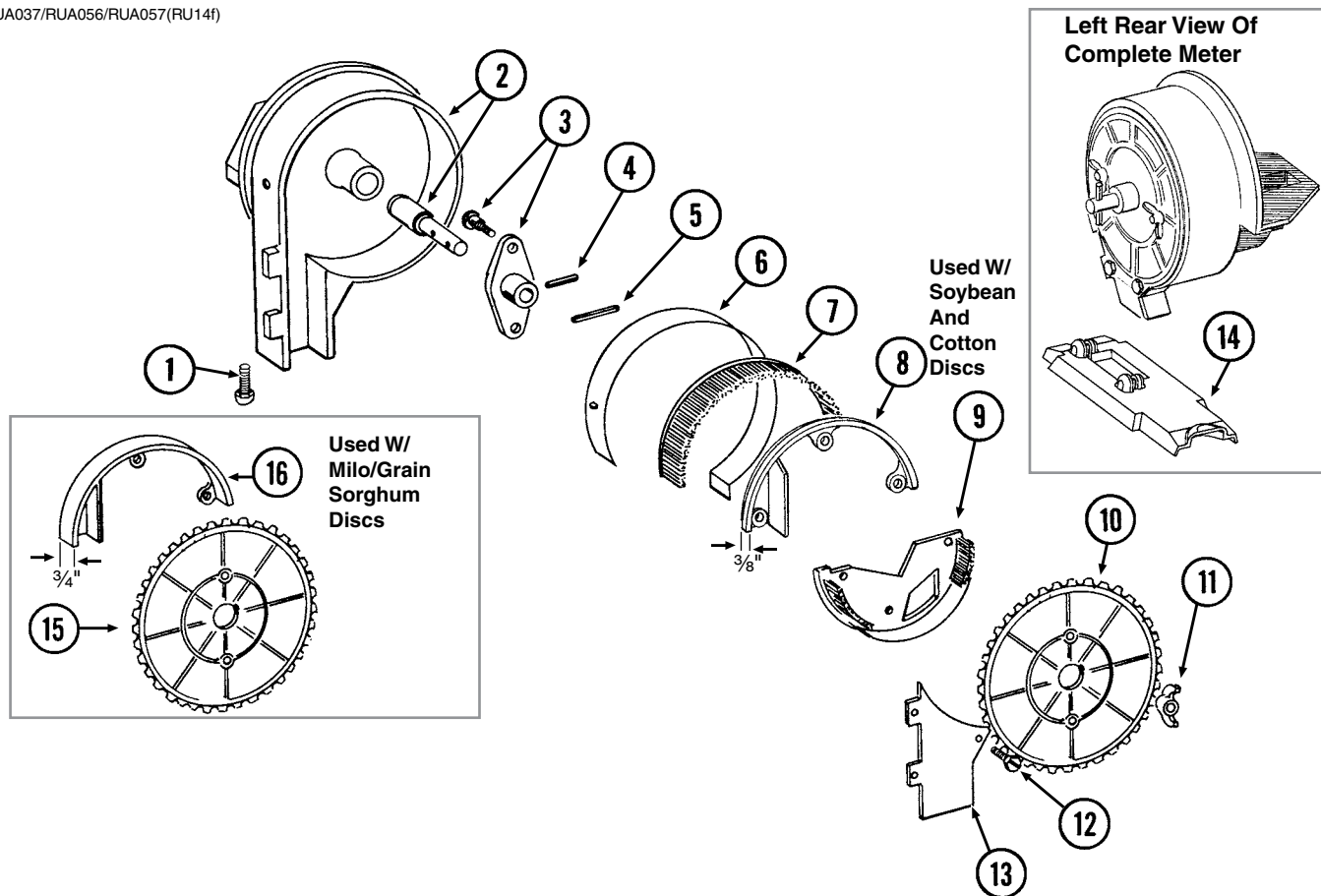
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RUA015/RUA056/RUA057(RU13k/RU13d)



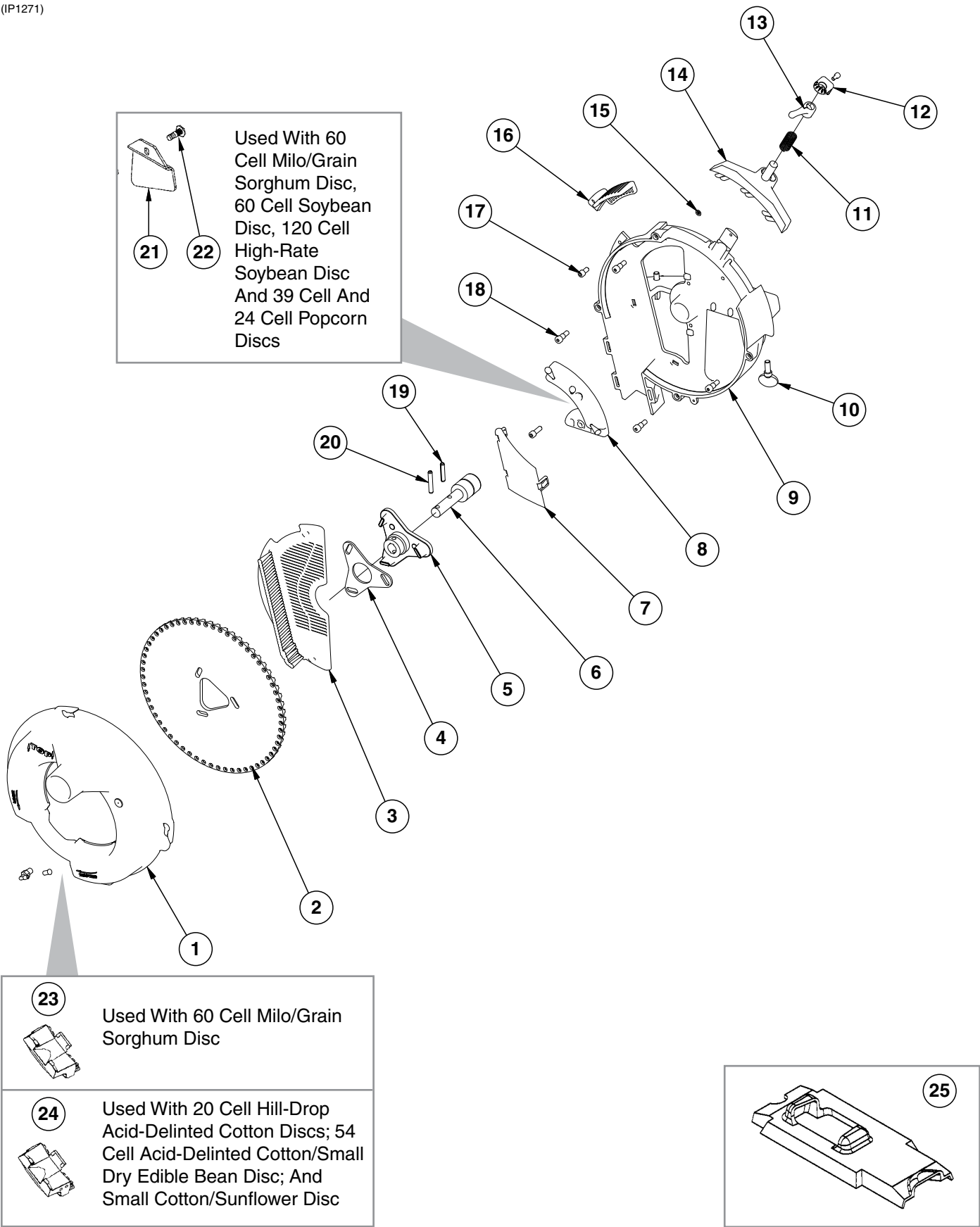
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10602	1	Spring Pin, 1/4" x 1 1/2"
2	G10604	1	Spring Pin, 3/16" x 1 1/2"
3	GD26419	1	Housing Cover
4	GD1041	1	Belt Drive Sprocket
5	GD11286	1	Seed Belt
6	GA2019	1	Bearing
7	GA18201	1	Conveyor Housing
8	GB0110	1	Bearing Housing
9	GR1569	-	Carrier Plate W/Brush 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
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, 1 7/64" I.D. x 1 1/32" Long
27	GD19333	12	Finger, Oil Sunflower
28	GD15698	1	Shank Cover, Finger Pickup Seed Meter
29	GD11787	-	Half Rate Blank Finger
A	GR1848	-	Finger Assembly, Corn (Items 11-14 and 20)
B	GR1897	-	Finger Assembly, Oil Sunflower (Items 12, 14, 20, 27, and 30)
C	700-01078	-	Corn Meter (Items 1-26 and 28)

RUA037/RUA056/RUA057(RU14f)



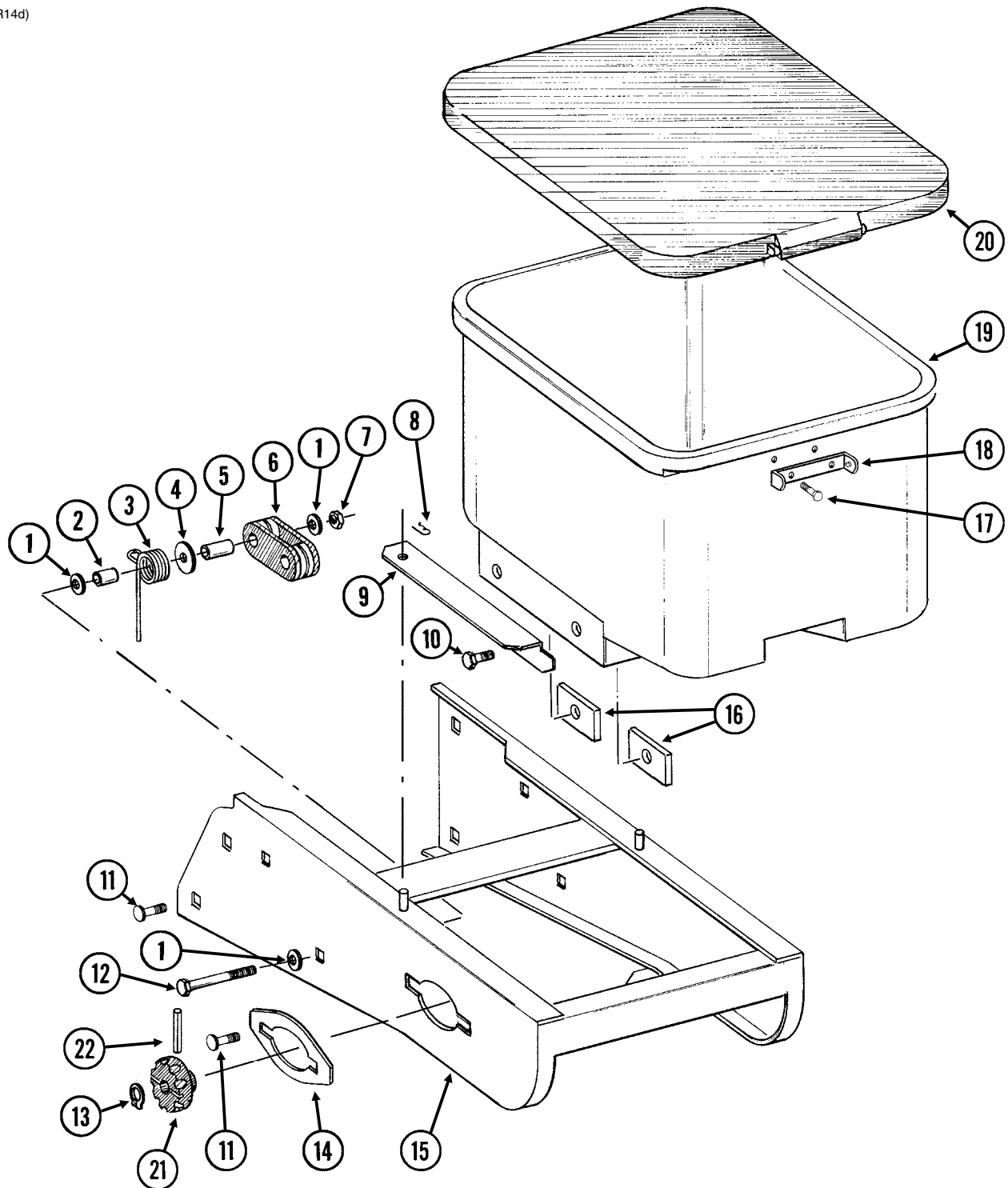
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G11009	2	Locking Thumbscrew, 5/16"-18 x 3/4"
2	GA18208	1	Housing W/Bearing
	GA5698	-	Bearing
3	GA6038	1	Hub W/Shoulder Bolts
	GD1755	-	Shoulder Bolt, 1/4"-20 (2 Used)
4	G10603	1	Spring Pin, 1/4" x 1 1/4"
5	G10602	1	Spring Pin, 1/4" x 1 1/2"
6	GD8778	1	Wear Strip
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)

(IP1271)



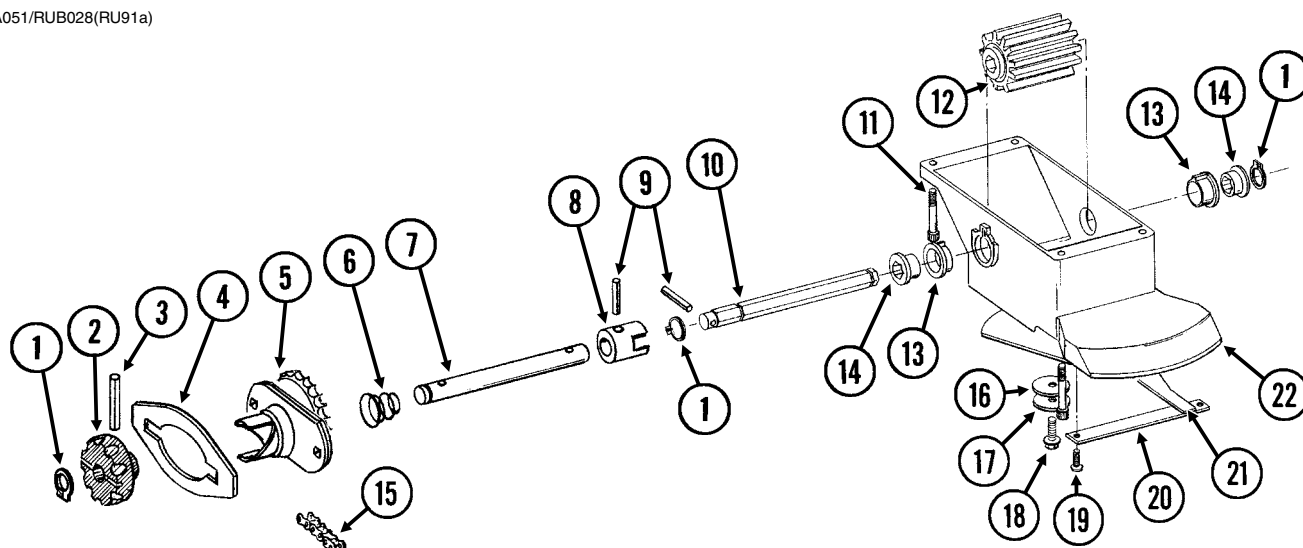
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA11911	1	Vacuum Cover W/Elbow And Cap
	GD17099	1	3/16" Hose Barb Elbow
	GD17152	1	Cap
2	GD17049	-	Seed Disc, Corn/Popcorn, 39 Cell, Light Blue Color-Coded
	GD17048	-	Seed Disc, Low-Rate Corn/Popcorn, 24 Cell, Light Green Color-Coded
	GD14467	-	Seed Disc, Soybean, 60 Cell, Black Color-Coded
	GD14468	-	Seed Disc, High-Rate Soybean, 120 Cell, Dark Blue Color-Coded
	GD17050	-	Seed Disc, Milo/Grain Sorghum, 60 Cell, Yellow Color-Coded
	GD17187	-	Seed Disc, Hill-Drop Cotton, Acid-Delinted, 3 Seeds Per Cell, 20 Cell, Brown Color-Coded
	GD18095	-	Seed Disc, Small Hill-Drop Cotton, Acid-Delinted, 20 Cell (3 Seeds Per Cell), Grey Color-Coded
	GD17186	-	Seed Disc, Cotton, Acid-Delinted/Small Dry Edible Bean, 54 Cell, Dark Green Color-Coded
	GD18098	-	Seed Disc, Small Cotton/Sunflower, 54 Cell, White Color-Coded
	GD14477	-	Seed Disc, Large Dry Edible Bean, 54 Cell, Tan Color-Coded
	GD24805	-	Seed Disc, Sugar Beets, 80 Cell, Blue Color-Coded
3	GD17028	1	Wall Brush/Vent
4	GD17021	1	Foam Spacer
5	GB0328	1	Mount
6	GA5698	1	Bearing
7	GD14541	1	Discharge Cover
8	GA11935	1	Crowder Brush
	G11213	1	Hex Socket Head Cap Screw, 1/4"-20 x 3/4"
9	GB0319	1	Housing
10	G11009	2	Locking Thumbscrew, 5/16"-18 x 3/4"
11	GD14592	1	Spring
12	GB0358	1	Cap
	G11173	1	Hex Socket Head Cap Screw, No. 10-24 x 3/8", Stainless Steel
13	GD15663	1	Brush Adjustment Lever
14	GA12848	1	Singulator Brush
15	GD17162	3	Push Nut, 1/8" I.D.
16	GD17047	1	Air Inlet Screen
17	G10260	1	Hex Socket Head Cap Screw, 1/4"-20 x 1/2"
18	G11172	4	Hex Socket Head Shoulder Screw, 1/4"-20 x 3/8", Stainless Steel
19	G10603	1	Spring Pin, 1/4" x 1 1/4"
20	G10602	1	Spring Pin, 1/4" x 1 1/2"
21	GD17104	1	Seed Baffle (Used With 60 Cell Milo/Grain Sorghum Disc, 60 Cell Soybean Disc, 120 Cell High-Rate Soybean Disc And 39 Cell And 24 Cell Popcorn Discs and 80 Cell Sugar Beet Disc)
22	G11210	1	Rib Neck Bolt, 1/4"-20 x 3/4"
	G10323	1	Hex Flange Nut, 1/4"-20, No Serrations
23	GA12133	1	Cleanout Brush (Used With 60 Cell Milo/Grain Sorghum Disc)
24	GA12154	-	Cleanout Brush W/Ball-Type Ejector (Used With 20 Cell Hill-Drop Acid-Delinted Cotton Discs And 54 Cell Acid-Delinted Cotton/Small Dry Edible Bean And Small Cotton/Sunflower Discs)
25	GD15700	1	Shank Cover, EdgeVac Meter
A	G8158X	-	EdgeVac Meter Assembly (Items; 1, 3-20, 22, and 25)

(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"

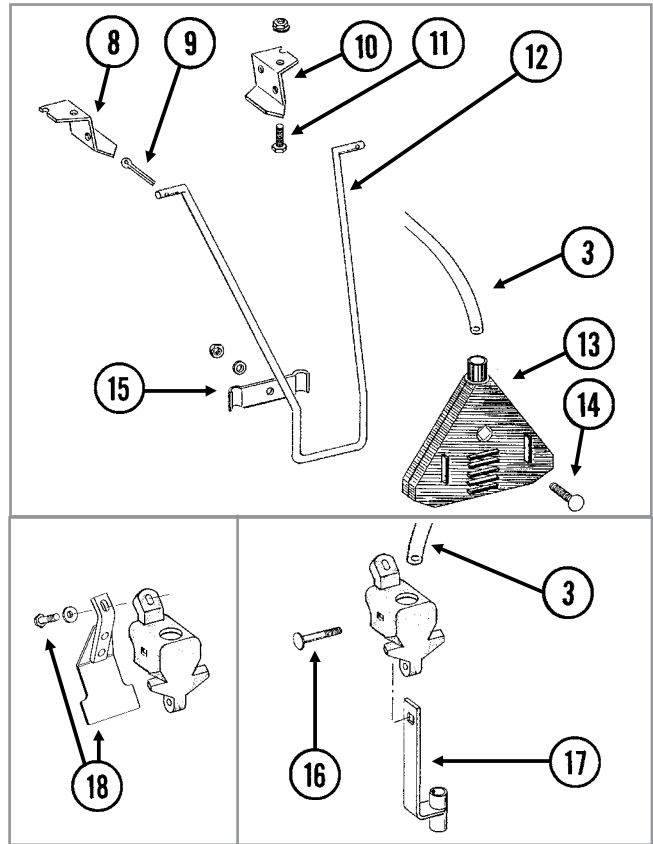
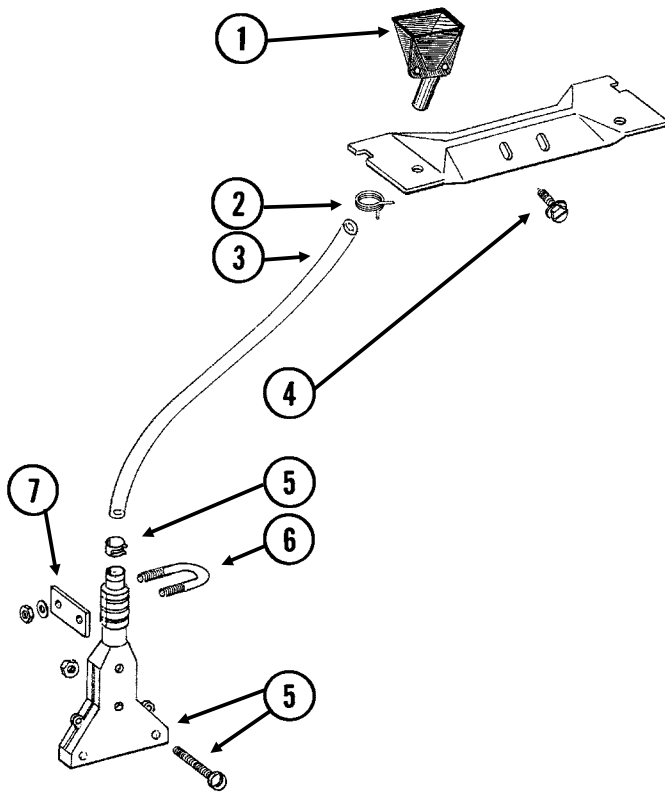
RUA051/RUB028(RU91a)



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 P27
5	GA8364	1	Sprocket And Bearing, Drive Clutch, 24 Tooth
6	GD11413	1	Spring
7	GD11240	1	Shaft
8	GB0278	1	Coupler
9	G10546	2	Spring Pin, 3/16" x 1 1/4"
10	GD11297	1	Shaft
11	G10921	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 (Mechanical)
	G3303-108	1	Chain, No. 41, 108 Pitch Including Connector Link (EdgeVac)
	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)

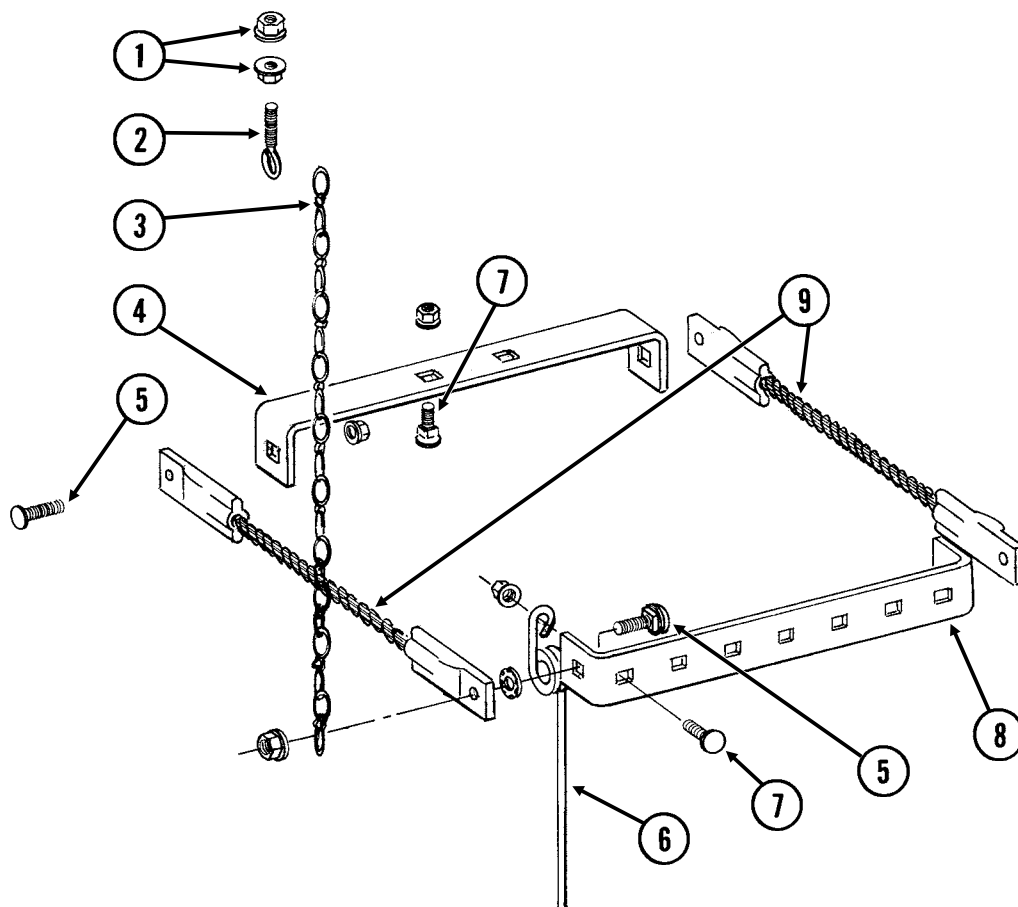
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RUA061/RUA073(RU101mm/RU83m)



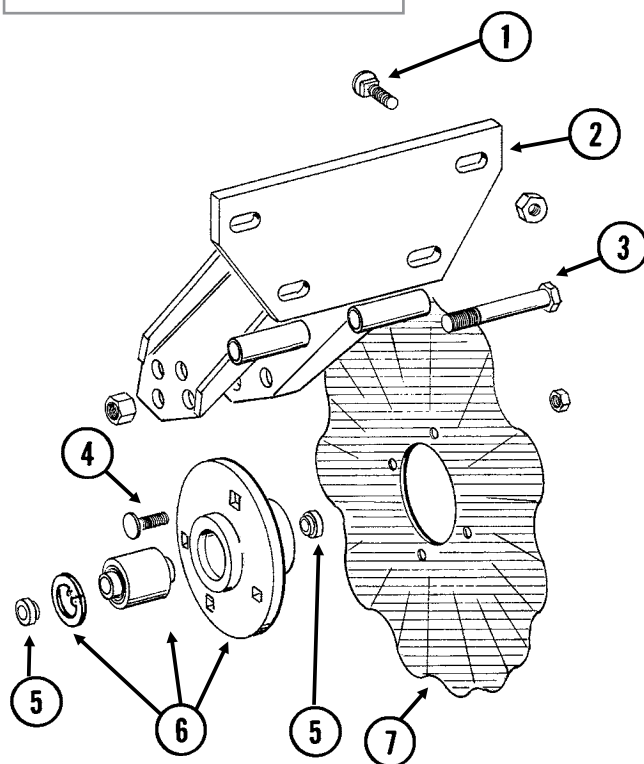
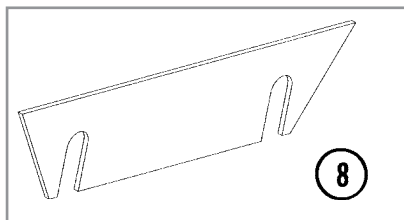
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2423	1	Funnel
2	G11209	1	Wire Hose Clamp, ¾"
3	GD2947	1	Hose, 7/16" x 28"
4	G10523	2	Slotted Pan Head Self-Tapping Screw, No. 10 x ½"
5	GA6907	1	Slope-Compensating Bander W/Hardware (4½" Band Width)
	G10864	1	Uni-Clamp
	G10757	2	Pan Head Screw, No. 10-32 x 1¼"
	G10758	2	Hex Nut, No. 10-32
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"
	G11387	1	Flat Washer, ⅜" SAE

RUA055(RU95)

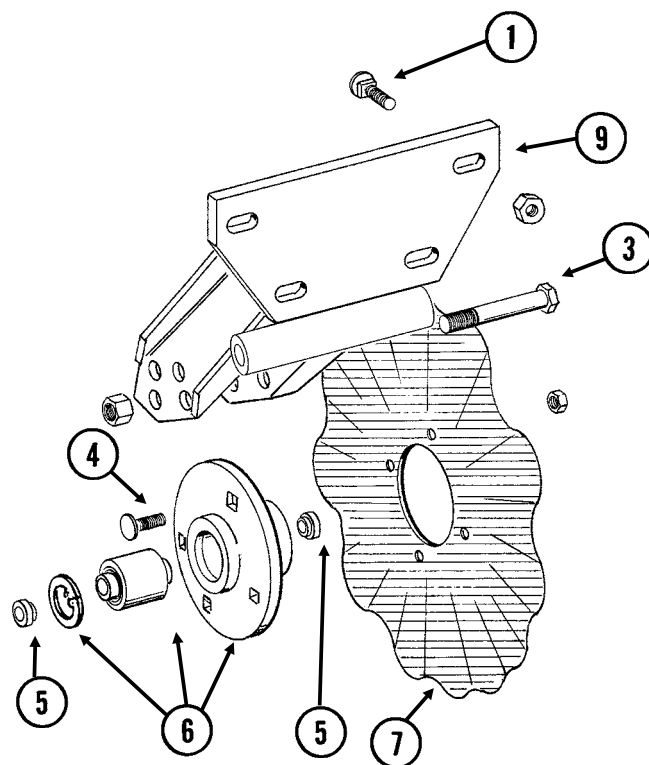


ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10621	4	Serrated Flange Nut, 1/4"-20
2	GD2460	2	Eyebolt, 1/4"-20
3	G3305-01	2	Twin Loop Chain, 9 Links
4	GD1143	1	Front Bracket
5	G10305	4	Carriage Bolt, 3/8"-16 x 1"
	G10529	4	External Tooth Lock Washer, 3/8"
	G10622	4	Serrated Flange Nut, 3/8"-16
6	GD1145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



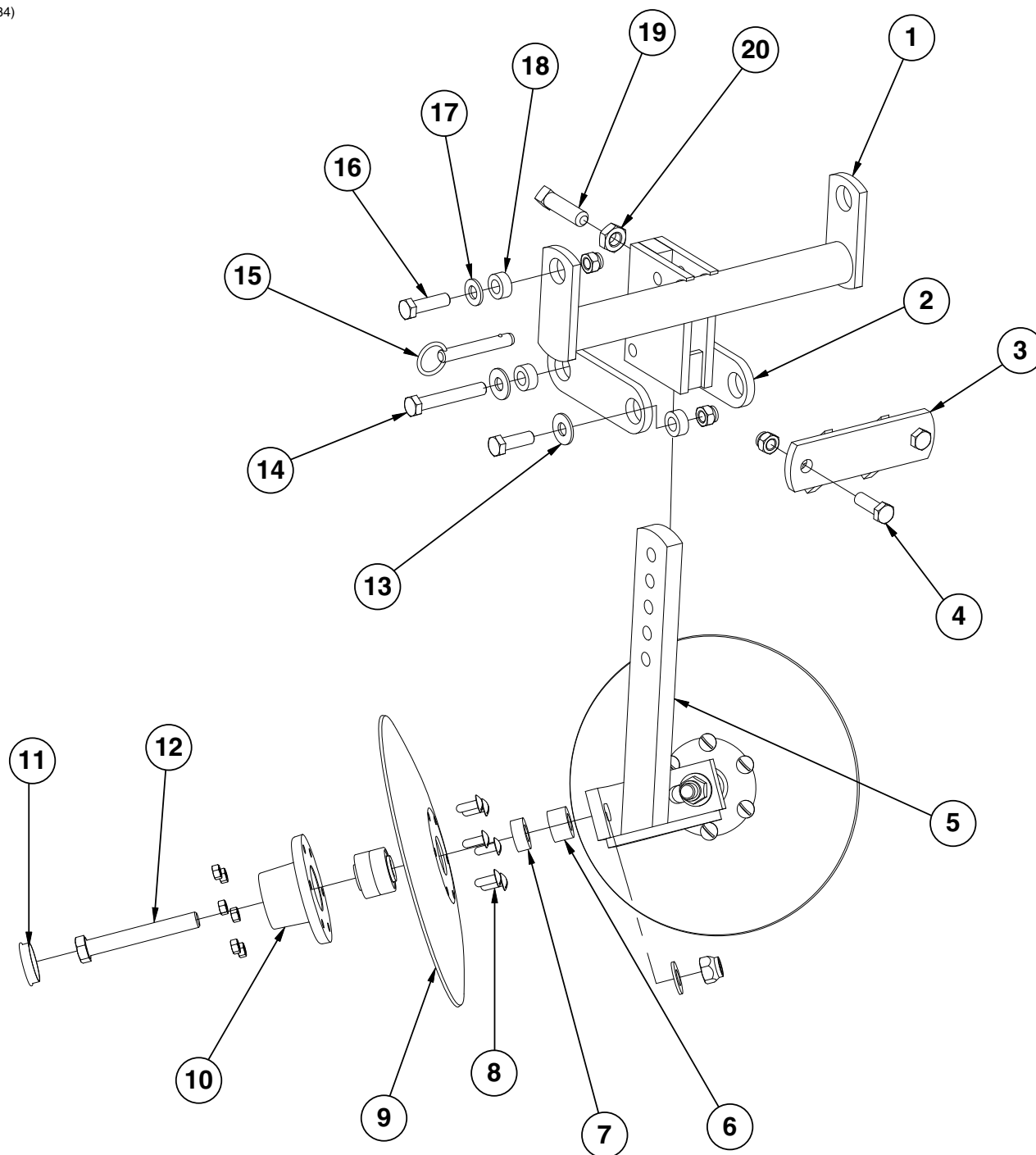
STYLE A



STYLE B

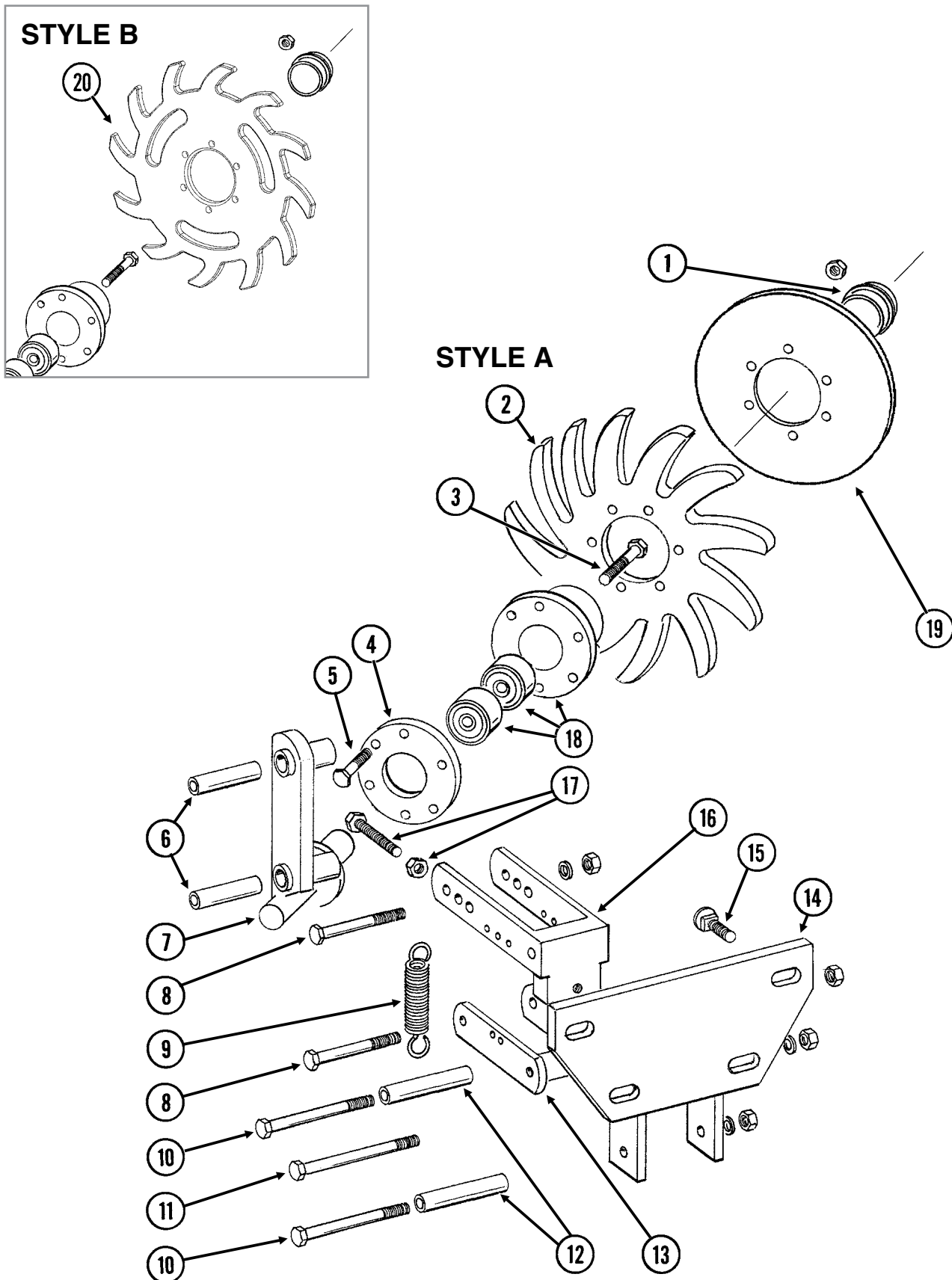
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
2	GA5625	1	Arm (Style A)
3	G10036	1	Hex Head Cap Screw, 5/8"-11 x 4"
	G10107	1	Lock Nut, 5/8"-11
4	G10574	4	Carriage Bolt, 1/2"-13 x 1 1/4"
	G10111	4	Lock Nut, 1/2"-13
5	GD11677	2	Adapter
6	GA8641	1	Hub W/Bearing And Retaining Ring
	GA8603	-	Bearing, Double Row
	GD11652	-	Retaining Ring, 2 7/16"
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)

(IP1284)



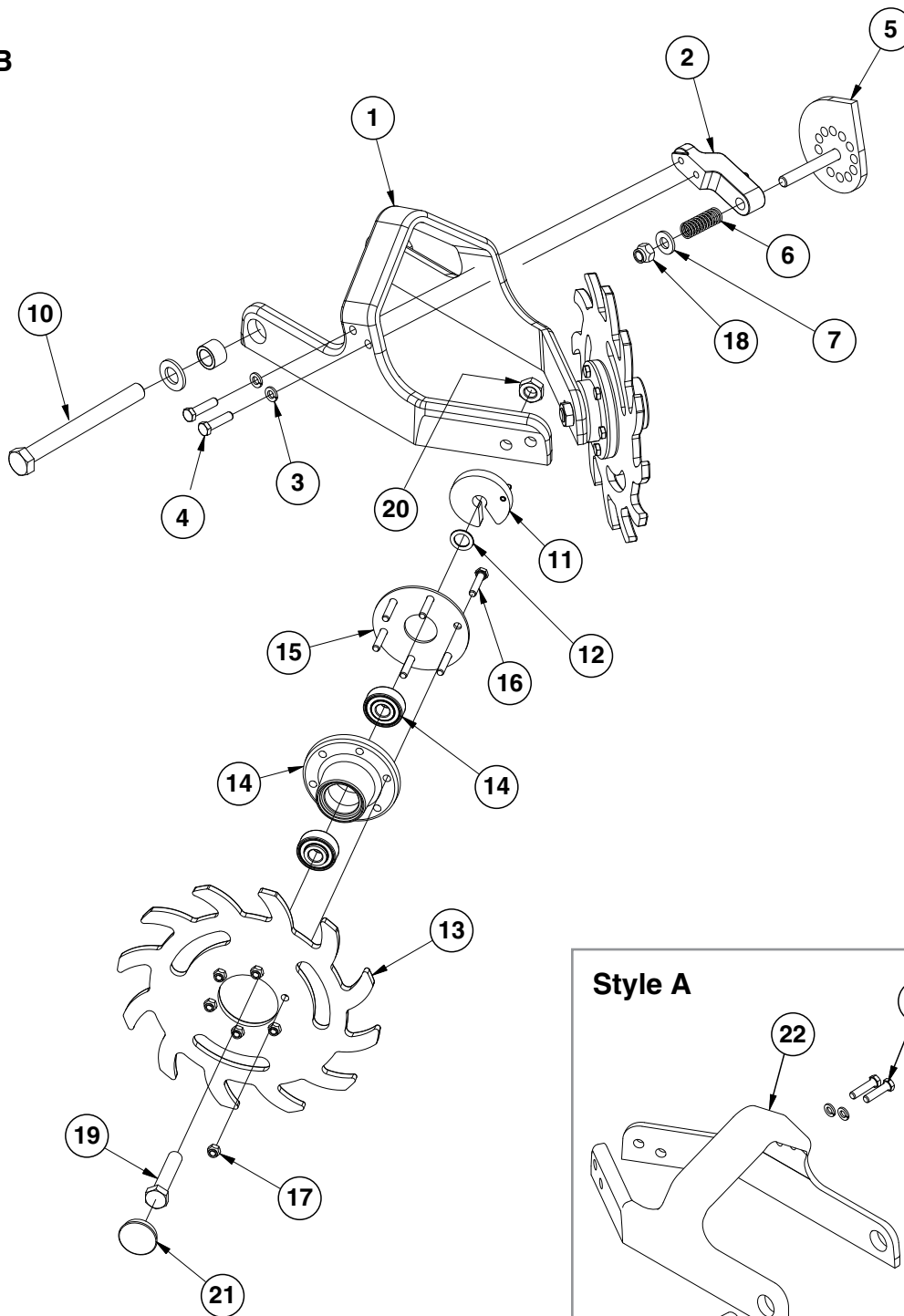
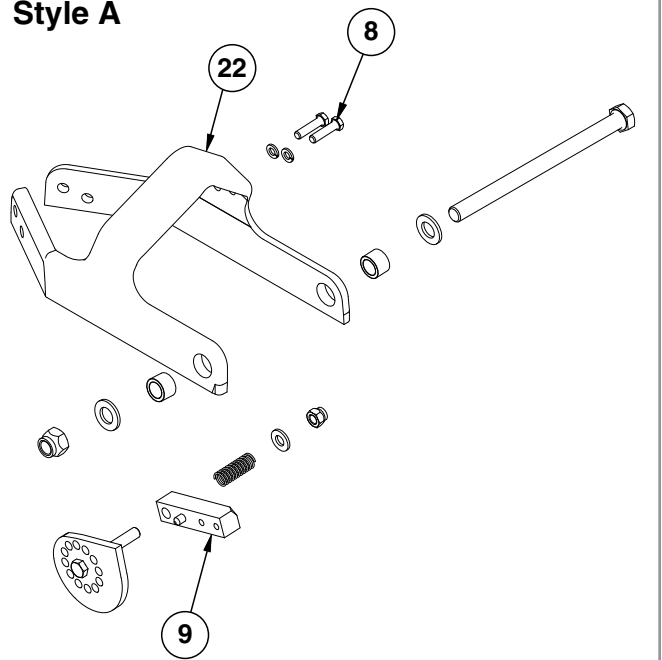
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GA5719	1	Mounting Bracket
2	GD7890	2	Link
3	GA5715	1	Anchor
4	G10017	2	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10111	2	Lock Nut, 1/2"-13
5	GA5718	1	Support Arm
6	GD7817-01	2	Spacer, 1 1/16" I.D. x 3/4" Long
7	GD7817-04	2	Spacer, 1 1/16" I.D. x 1/2" Long
8	G10572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

(RU103dd/RU103d)



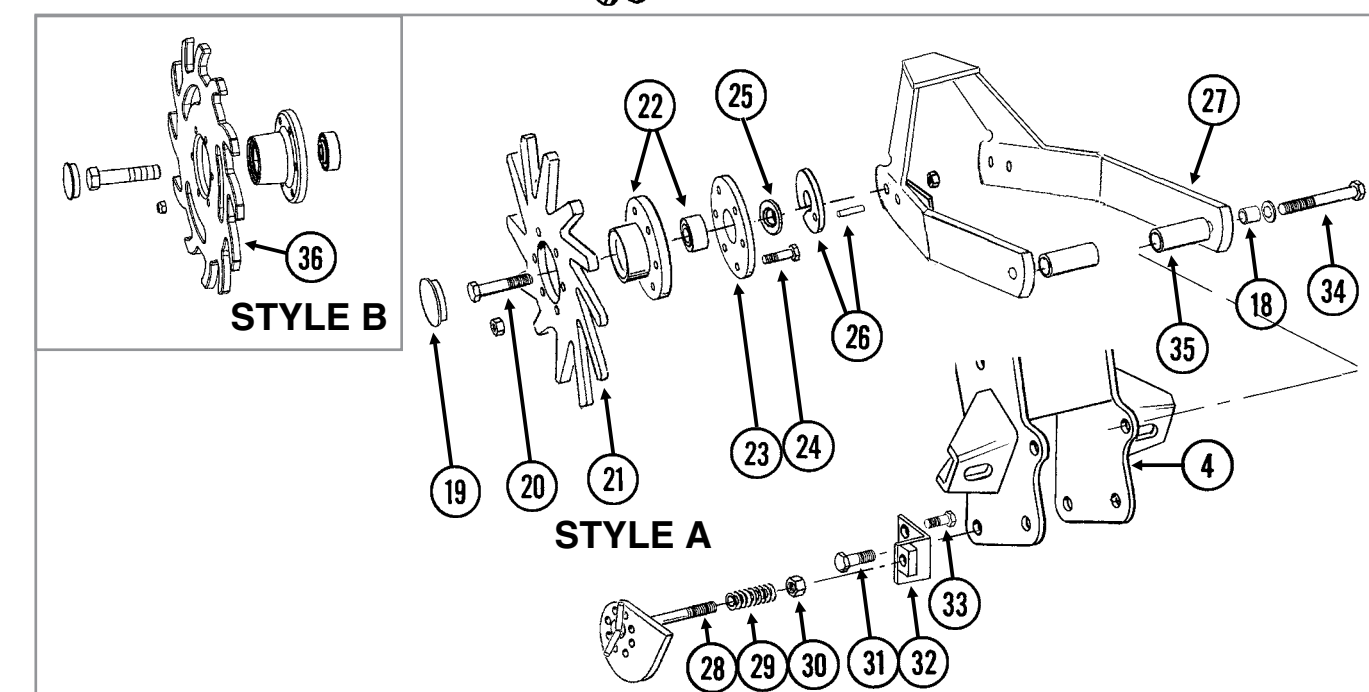
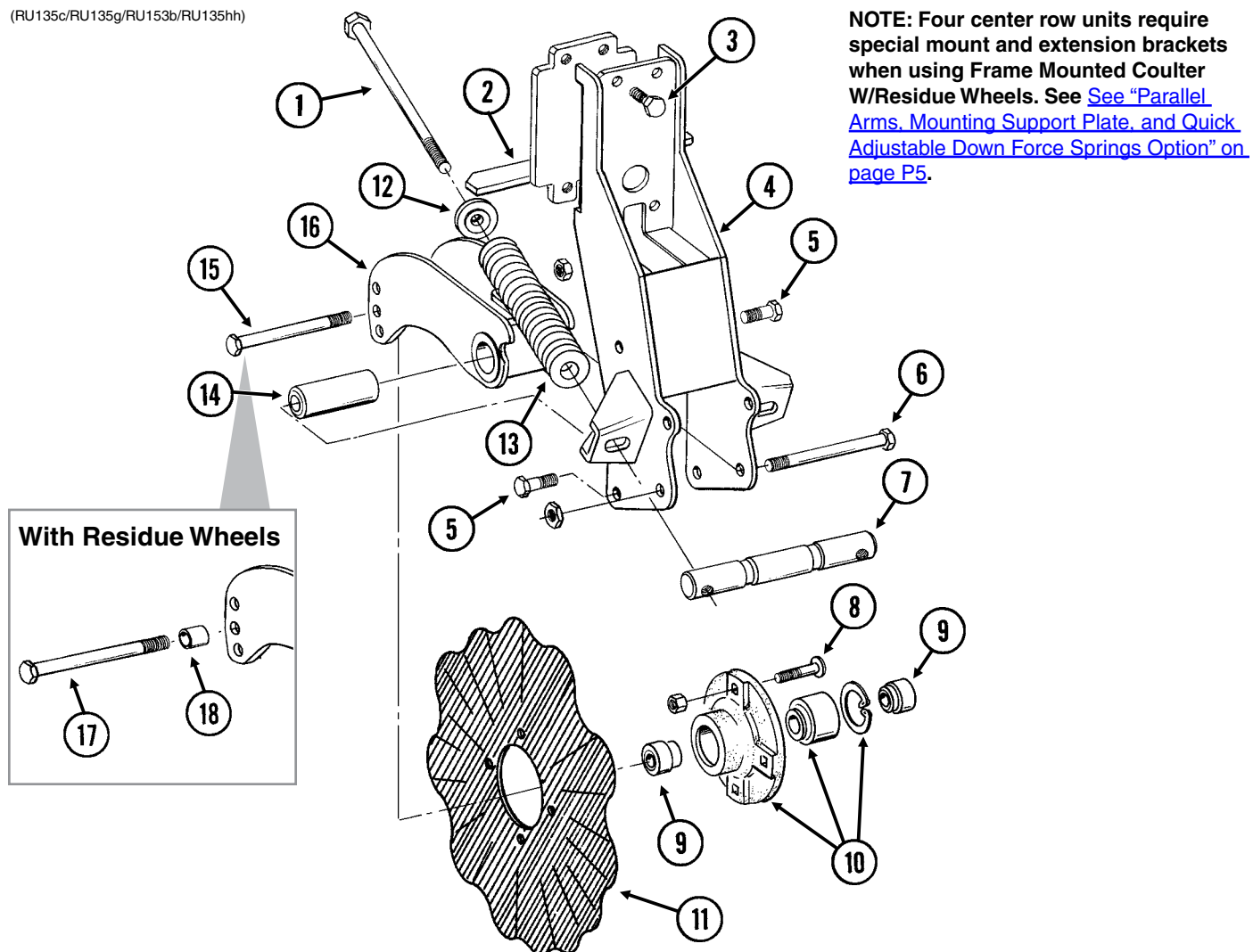
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1132	1	Dust Cap
2	GD10552	1	Wheel, 12 Tine, 3/8" x 12"
3	G10006	1	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
4	GD9724	1	Backing Plate
5	G10133	6	Hex Head Cap Screw, 5/16"-18 x 1 1/2"
	G10109	6	Lock Nut, 5/16"-18, Grade 8
6	GD9720	2	Spacer, 1/2" x 2 3/16" Long
7	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)

(IP1468)

Style B**Style A**

ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GB0464	1	Residue Wheel Mount
2	GD26793	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	G10213	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
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)

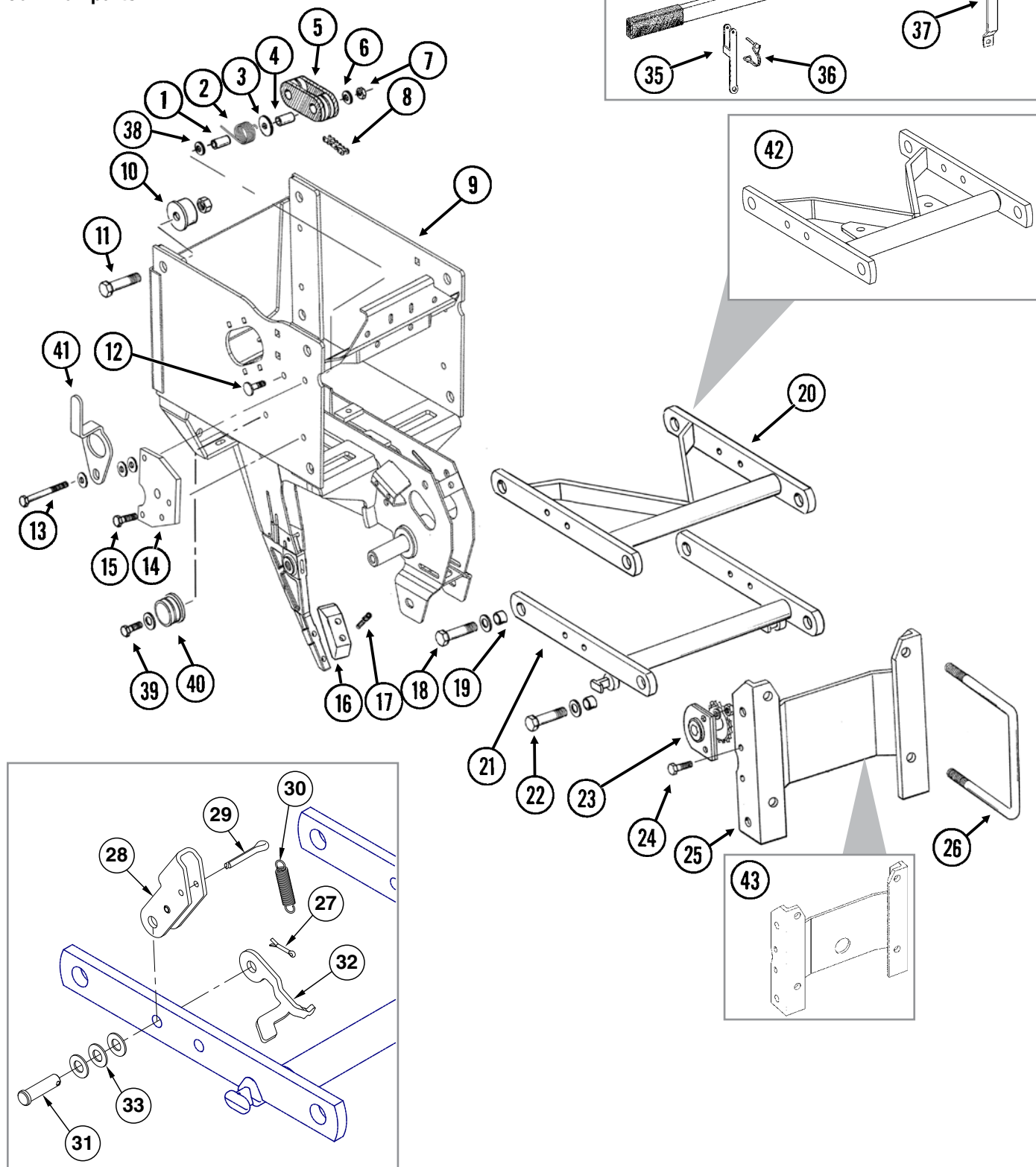
(RU135c/RU135g/RU153b/RU135hh)



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
	GD11652	1	Retaining Ring (Beveled), 2 7/16"
	GD19292	-	Retaining Ring (Square), 2 7/16"
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
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
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"
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	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)

(RU156a/RU150b/A11969/A11971)

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



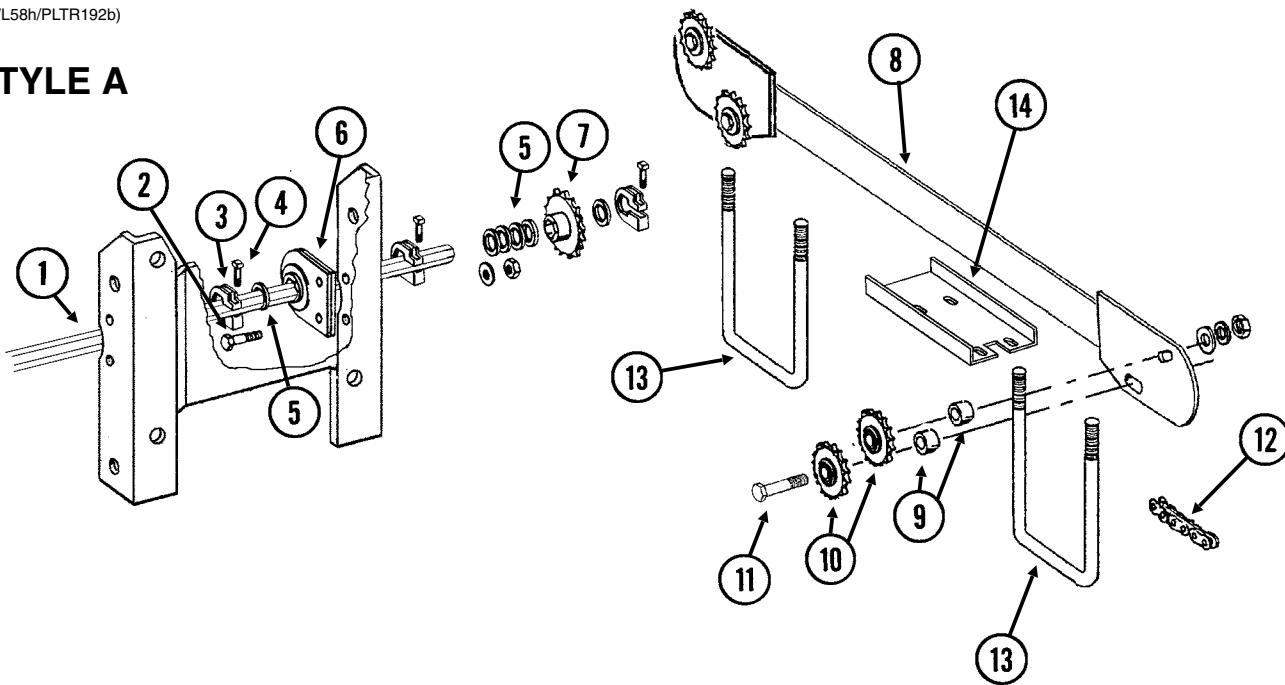
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
1	GD1026	1	Sleeve, 1 $\frac{3}{16}$ " Long
2	GD11218	1	Spring
3	G10201	1	Special Washer, $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " O.D.
4	GD8893-01	1	Sleeve, 1 $\frac{3}{8}$ " Long
5	GD11962	1	Idler
6	G11387	1	Flat Washer, $\frac{3}{8}$ " SAE
7	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
8	G3303-100	1	Chain, No. 41, 100 Pitch Including Connector Link (EdgeVac)
	G3303-96	1	Chain, No. 41, 96 Pitch Including Connector Link (Mechanical)
	GR0196	1	Connector Link, No. 41
	GR0202	-	Offset Link, No. 80
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	G10753	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 4 $\frac{1}{2}$ "
	G11387	3	Flat Washer, $\frac{3}{8}$ " SAE
14	GD24545	2	Stop
15	G10004	3	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 1 $\frac{1}{4}$ "
	G10108	3	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	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	G10451	2	Cotter Pin, $\frac{1}{8}$ " x 1"
28	GD11264	2	Lockup
	G10718	2	Spring Pin, $\frac{5}{16}$ " x 1 $\frac{1}{8}$ "
29	G10463	2	Cotter Pin, $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "
30	GD25569	2	Spring
31	G10284	2	Clevis Pin, $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "
32	GD25568	2	Spring Mount Tab
33	G10216	2	Washer, $\frac{1}{2}$ " USS
34	GA12117	1	Lift Lever W/Boot
	GD11649	-	Boot

Continued on the next page.

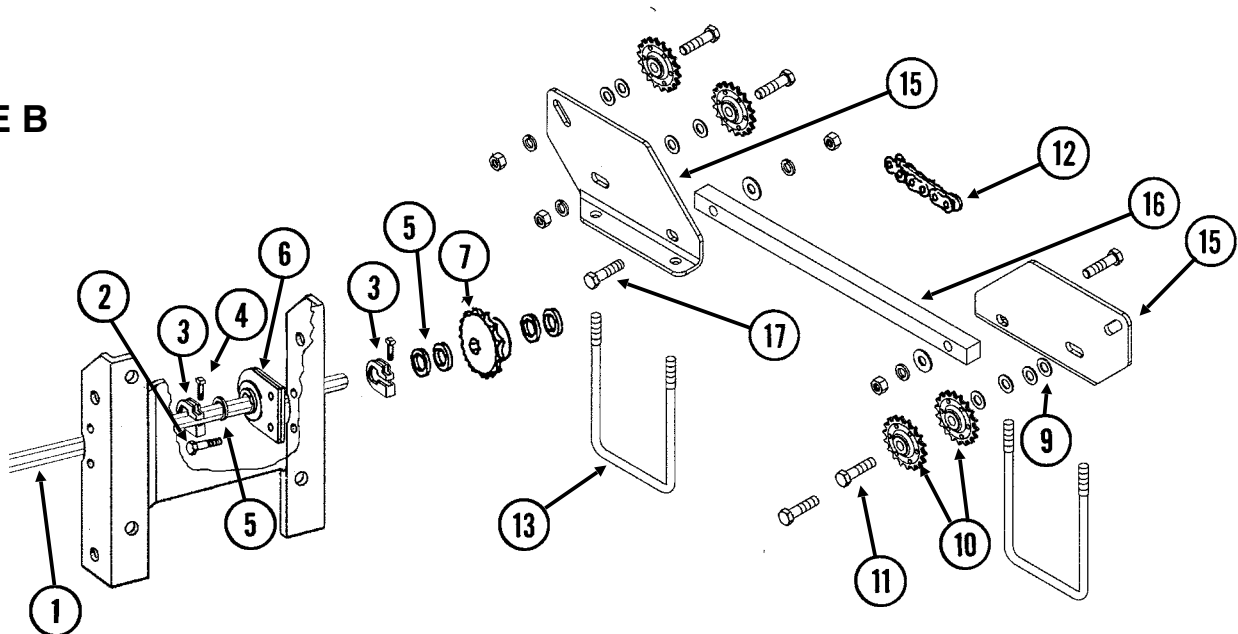
ITEM	PART NO.	QTY. (Per Row)	DESCRIPTION
35	GD18073	1	Bracket
36	GD9695	1	Wire Lock Pin, 1/4" x 1 3/4"
37	GD18075	1	Mount
38	G11387	1	Flat Washer, 3/8" SAE
39	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
	G11387	-	Flat Washer, 3/8" SAE
	G10108	1	Lock Nut, 3/8"-16
40	GD17052	1	Vacuum Plug
41	GD17014	1	Hose Guide
42	GA11969	1	Upper Arm
43	GA11971	1	Mounting Plate
A	G1K534	-	Push Unit Lock-Up Kit, Items 27-33 (includes GD11648 - Push Unit Stop)
B	G1K535	-	Push Unit Spring Lock-Up Kit, Items 27-33

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(TWL58h/PLTR192b)

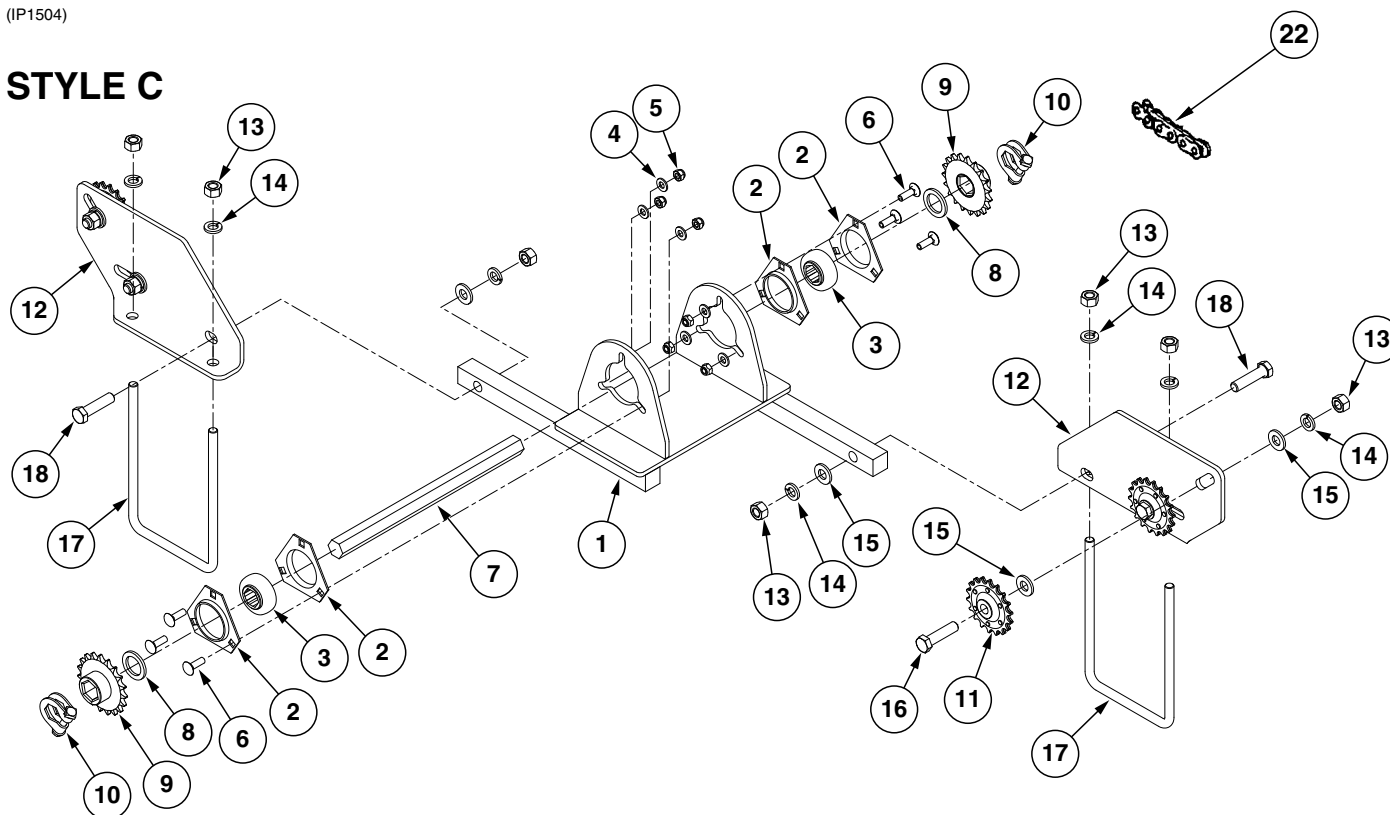
STYLE A

[See "Clutch Sprocket Assembly" on page P51](#)

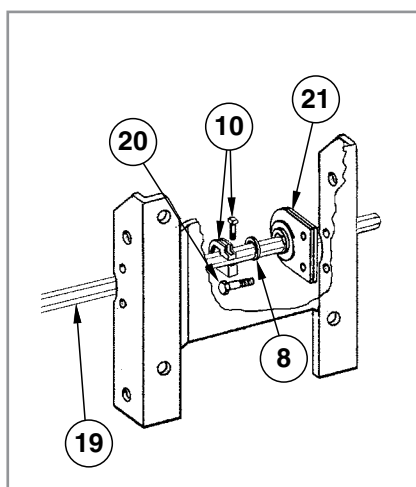
STYLE B

ITEM	PART NO.	QTY.	DESCRIPTION
1	GD0914-155	-	Hex Shaft, 7/8" x 155" (No Holes), 6 Row 30"
	GD0914-215	-	Hex Shaft, 7/8" x 215" (No Holes), 8 Row 30"
2	G10001	-	Hex Head Cap Screw, 3/8"-16 x 1"
	G11091	-	Serrated Flange Nut, 3/8"-16
3	GD11045	-	Lock Clamp
4	G10130	-	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	-	Flange Nut, 5/16"-18, No Serration
5	G10233	-	Machine Bushing, 1 1/2" x 1/32", 10 Gauge (As Required)
6	GA2180	-	Hanger Bearing, 7/8" Hex Bore
7	GA5107	2	Sprocket, 19 Tooth
8	GA9138	1	Mount
9	GD9229	4	Spacer, 1 1/4" O.D. x 1/2" Long (If Applicable)
10	GA7154	4	Sprocket W/Bearing, 18 Tooth
11	G10581	4	Hex Head Cap Screw, 1/2"-13 x 2 1/4"
	G10016	4	Hex Head Cap Screw, 1/2"-13 x 2"
	G11389	4-8	Flat Washer, 1/2" SAE
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
12	G3310-226	1	Chain, No. 40, 226 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
	GR0912	-	Connector Link, No. 40
13	GD8306	2	U-Bolt, 7" x 5" x 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	-	Hex Nut, 1/2"-13
14	GD14417	1	Hose Protector
15	GD18066	2	Plate
16	GD18067	1	Brace
17	G10016	2	Hex Head Cap Screw, 1/2"-13 x 2"
	G11389	2	Flat Washer, 1/2" SAE
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
A	G1K269	-	Lock Clamp Kit (Items 3 And 4)

(IP1504)

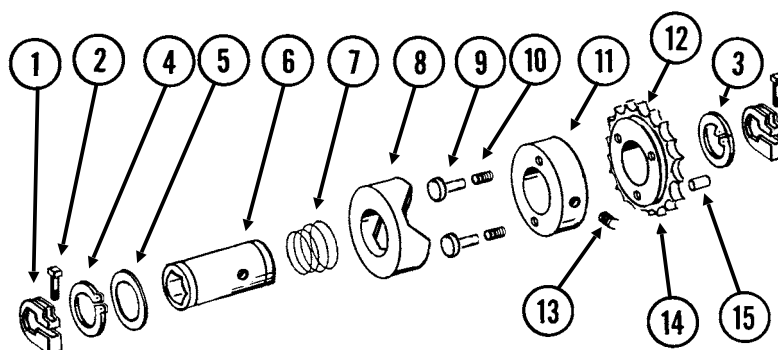
STYLE C

[See "Clutch Sprocket Assembly" on page P51](#)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA18397	1	L.H. Crossover
	GA18398	-	R.H. Crossover
2	G3400-01	4	Flangette
3	G2100-03	2	Bearing, 7/8" Hex Bore, Spherical
4	G11386	6	Flat Washer, 5/16" SAE
5	G10109	6	Lock Nut, 5/16"-18
6	G10303	6	Carriage Bolt, 5/16"-18 x 1"
7	GD0914-12.50	1	Hex Shaft, 7/8" x 12 1/2"
8	G10233	2	Machine Bushing, 1 1/2" x 1/32", 10 Gauge (.1345")
9	GA5107	2	Sprocket, 19 Tooth
10	GA11331	2	Hex Lock Clamp Assembly
11	GA7154	2	Sprocket W/Bearing, 18 Tooth
12	GD18066	1	Plate
13	G10102	8	Hex Nut, 1/2"-13
14	G10228	8	Lock Washer, 1/2"
15	G11389	6	Flat Washer, 1/2" Plated SAE
16	G10016	2	Hex Head Cap Screw, 1/2"-13 x 2"
17	GD8306	2	U-Bolt, 7" x 5" x 1/2"-13
18	G10016	2	Hex Head Cap Screw, 1/2"-13 x 2"
19	GD0914-155	-	Hex Shaft, 7/8" x 155" (No Holes), 6 Row 30"
	GD0914-215	-	Hex Shaft, 7/8" x 215" (No Holes), 8 Row 30"
20	G10001	-	Hex Head Cap Screw, 3/8"-16 x 1"
	G11091	-	Serrated Flange Nut, 3/8"-16
21	GA2180	-	Hanger Bearing, 7/8" Hex Bore
22	G3310-122	2	Chain, No. 40, 122 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40

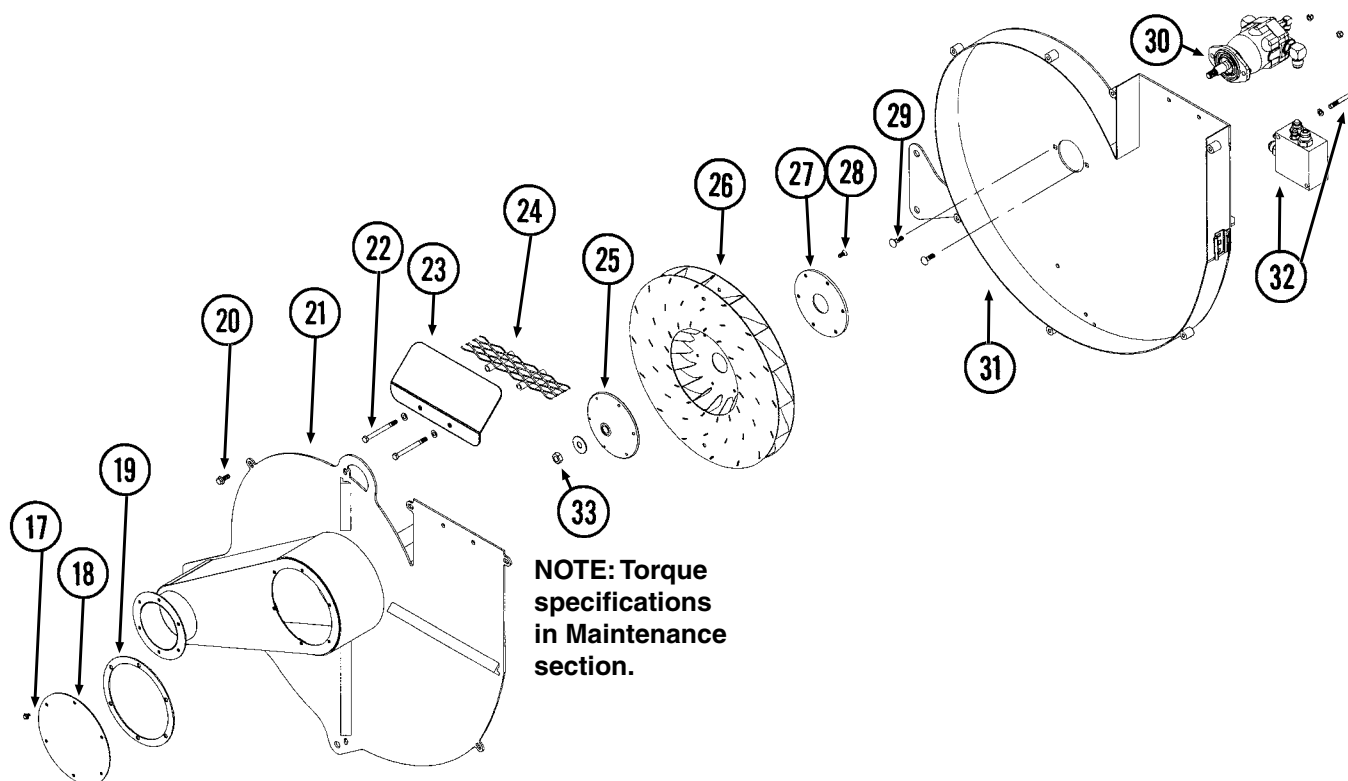
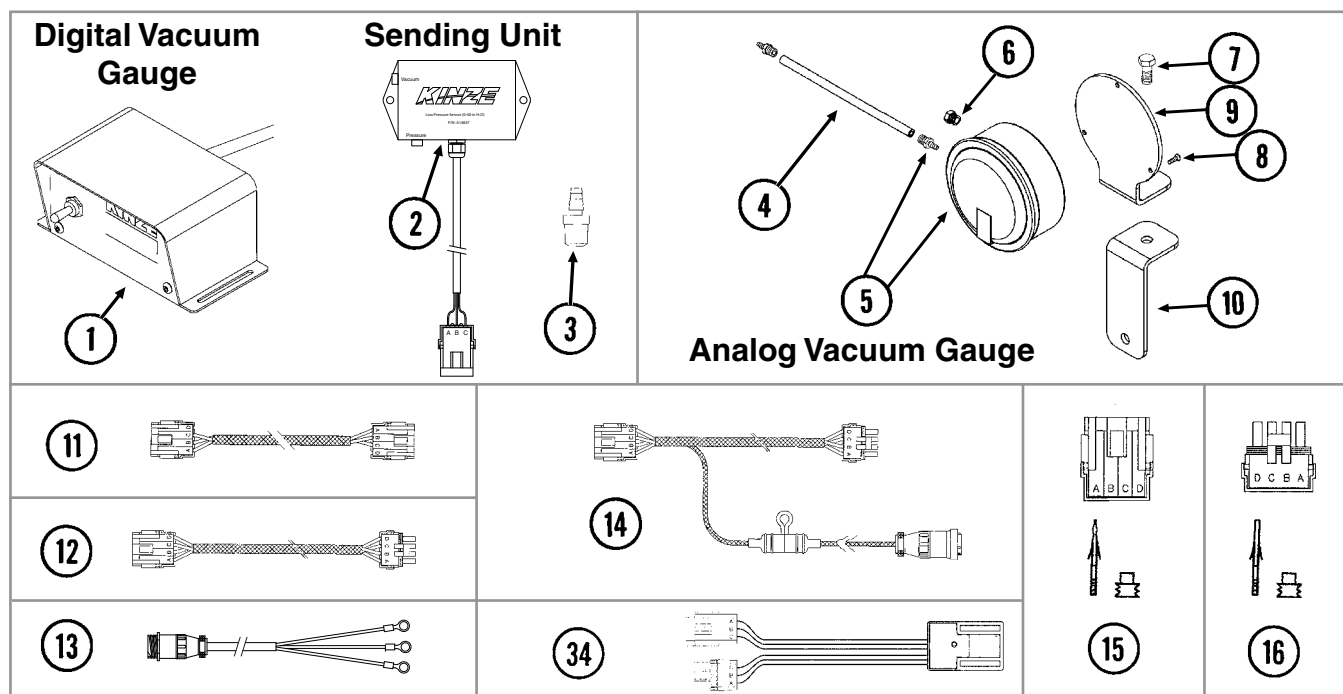
(TWL58g)



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

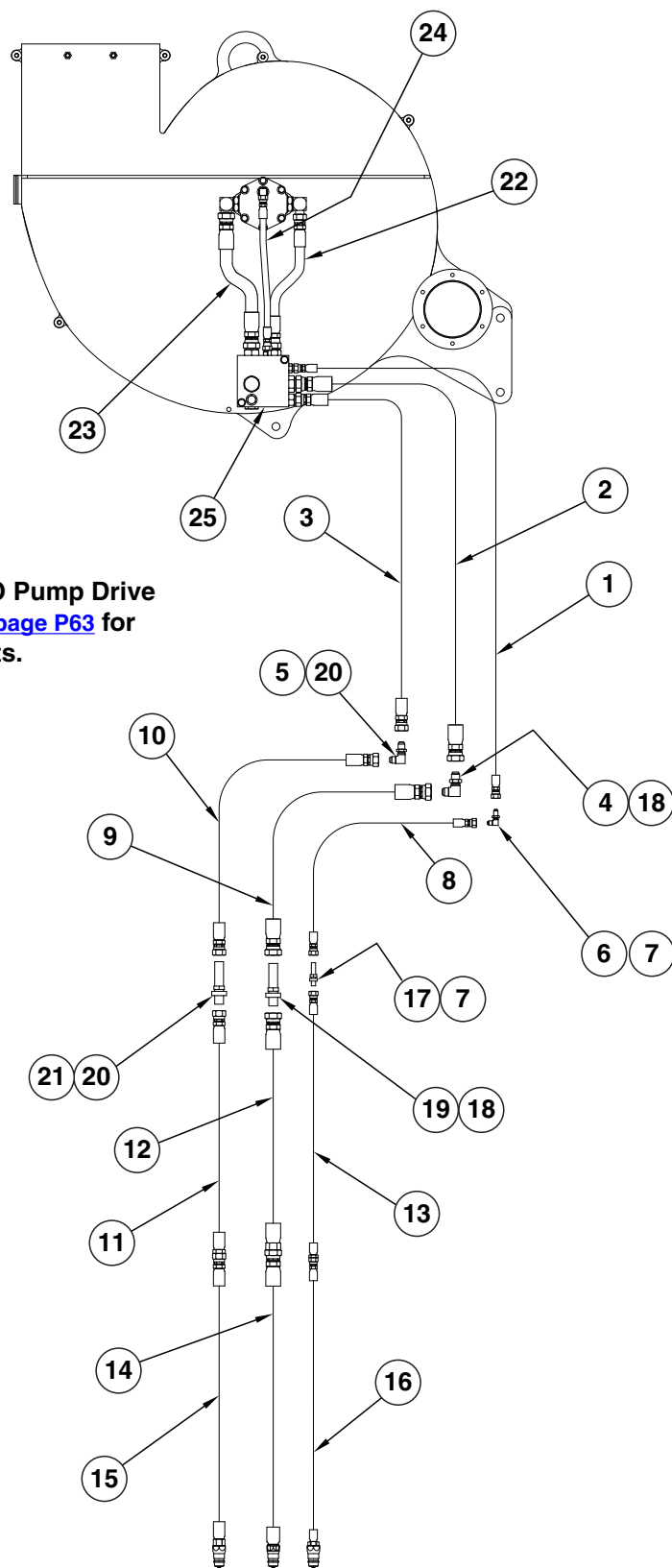
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(A11154/A11156/GR1736/A10765/A11158/A11699/A7856/A11155/A8329/METR68)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA11154	1	Digital Vacuum Gauge W/4-Pin Connector
2	GA14847	1	Low Pressure Sensor (0-40 IN H ₂ O)
	GD17151-03	-	Nylon Tubing, ¼" O.D. x 37'
	GA9964	-	Strain Relief
3	GR1736	1	Hose Barb, ⅛" Barb To ⅛" Male NPT
4	GD15849-02	1	Clear Plastic Tubing, ⅝" O.D. x ⅜" I.D. x 120"
5	GA10765	1	Analog Vacuum Gauge W/Hose Barb
	GR1777	-	Hose Barb, ⅛" Male NPT To ⅜" Barb
6	GA10799	1	Breather, ⅛" Male NPT
7	G10001	1	Hex Head Cap Screw, ⅜"-16 x 1"
	G10108	1	Lock Nut, ⅜"-16
8	G11215	3	Hex Socket Head Cap Screw, No. 6-32 x ⅜", Grade 8
9	GD15804	1	Mount
10	GD15803	1	Support
11	GA11158	1	Harness, 468"
12	GA11699	-	Extension Harness, 180"
13	GA17547	-	Power Adapter Cable
14	GA11155	1	Harness W/Fuse Holder And Fuse, 132"
	GD14258	-	Fuse Holder
	GD14660	-	Fuse, 2 Amp Delay Action
	G1K268	-	Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (1) Lock Ring, (3) Female Terminal Pins
15	GA8328	-	4-Pin Female Connector Kit, 4 Seals And 4 Pin Contacts
16	GA8329	-	4-Pin Connector W/Male Housing, 4 Seals And 4 Socket Contacts
17	G11166	6	Whiz Lock Bolt, ¼"-20 x ¾"
18	GD16233	1	Manifold
19	GD16241	1	Gasket
20	G11124	7	Whiz Lock Bolt, ⅜"-16 x 1"
21	GA11086	1	Cover
22	G10063	2	Hex Head Cap Screw, ⅜"-16 x 4"
	G11387	2	Flat Washer, ⅜" SAE
	G10108	2	Lock Nut, ⅜"-16
23	GD15863	1	Discharge Deflector
24	GA11987	2	Screen
25	GD15790	1	Hub
26	GA10635	1	Impeller
27	GD15789	1	Backing Plate
28	G11133	6	Hex Socket Head Cap Screw, ⅝"-18 x ¾", Grade 8
29	G10599	2	Carriage Bolt, ⅜"-16 x 1¼"
	G10229	2	Lock Washer, ⅜"
	G10101	2	Hex Nut, ⅜"-16
30	---	-	See "Vacuum Fan Hydraulic Motor Assembly" on page P57
31	GA11085	1	Shroud
32	---	-	See "Vacuum Fan Motor Valve Block Assembly (Located Below Vacuum Fan Motor Assembly)" on page P59
33	G11391	1	Flat Washer, ⅝" SAE
	G10499	1	Hex Jam Nut, ⅝"-18, Grade 2
34	GA12812	-	Hall Effect Adapter
A	GA11087	-	Vacuum Fan Assembly (Items 17-22 and 24-33 on this page and Items 2, 3 and 8 on page P55)

(IP1269)

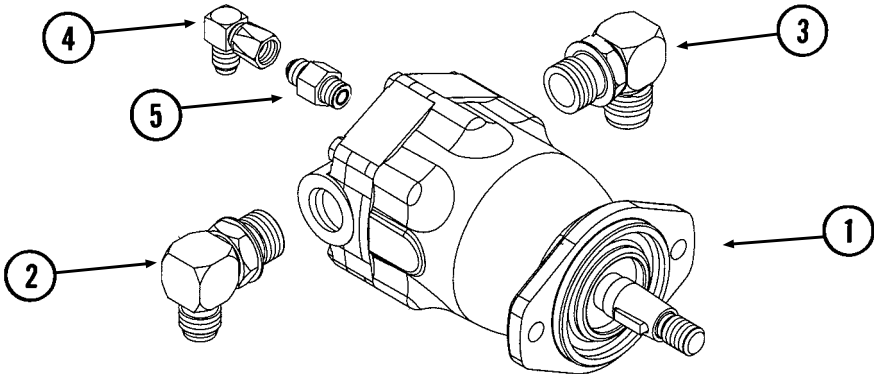


NOTE: If equipped with PTO Pump Drive
And Oil Cooler Option see [page P63](#) for
those hydraulic components.

ITEM	PART NO.	QTY.	DESCRIPTION
1	*A12081	1	Hose Assembly, 3/8" x 58"
2	*A12924	1	Hose Assembly, 3/4" x 54"
3	*A8280	1	Hose Assembly, 1/2" x 54"
4	G2701-12	1	Bulkhead Elbow, 90°, 1 1/16"-12 Male JIC
5	G2701-10	1	Bulkhead Elbow, 90°, 7/8"-14 Male JIC
6	G2701-06	1	Bulkhead Elbow, 90°, 9/16"-18 Male JIC
7	G306-06	2	Lock Nut, 9/16"-18
8	*A12080	1	Hose Assembly, 3/8" x 64"
9	*A12925	1	Hose Assembly, 3/4" x 62"
10	*A1460	1	Hose Assembly, 1/2" x 62"
11	*A8274	1	Hose Assembly, 1/2" x 86"
12	*A3368	1	Hose Assembly, 3/4" x 86"
13	*A12016	1	Hose Assembly, 3/8" x 86"
14	*A3345	1	Hose Assembly, 3/4" x 150"
15	*A8251	1	Hose Assembly, 1/2" x 150"
16	*A3166	1	Hose Assembly, 3/8" x 152"
17	G2700-06-06	1	Bulkhead Tube Union, 9/16"-18 Male JIC
18	G306-12	2	Lock Nut, 1 1/16"-12
19	G2700-12	1	Bulkhead Tube Union, 1 1/16"-12 Male JIC
20	G306-10	2	Lock Nut, 7/8"-14
21	G2700-10	1	Bulkhead Tube Union, 7/8"-14 Male JIC
22	*A8261	1	Hose Assembly, 1/2" x 13 1/2"
23	*A3352	1	Hose Assembly, 3/4" x 13 1/2"
24	*A12015	1	Hose Assembly, 3/8" x 17"
25	---	-	See "Vacuum Fan Motor Valve Block Assembly (Located Below Vacuum Fan Motor Assembly)" on page P59

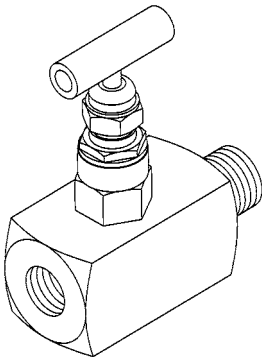
* Hydraulic hose is not stocked by Kinze Repair Parts, but can be made available on a special order basis. Call for quote.

(METR21a)



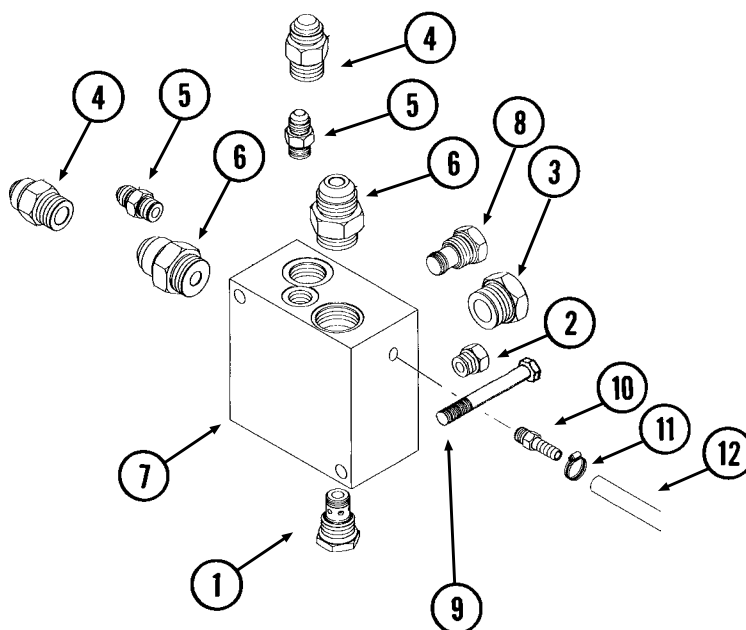
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA10149 GR1734	1 -	Hydraulic Motor Seal Kit
2	G6801-10-12 GR1467	1 -	Elbow W/O-Ring, 90°, 7⁄8"-14 Male JIC To 1 1⁄16"-12 O-Ring O-Ring
3	G6801-12 GR1467	1 -	Elbow W/O-Ring, 90°, 1 1⁄16"-12 Male JIC To O-Ring O-Ring
4	G6500-06	1	Swivel Elbow, 90°, 9⁄16"-18 Male JIC To Female
5	G6400-06 GR1045	1 -	Connector W/O-Ring, 9⁄16"-18 Male JIC To O-Ring O-Ring

(A11650)



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

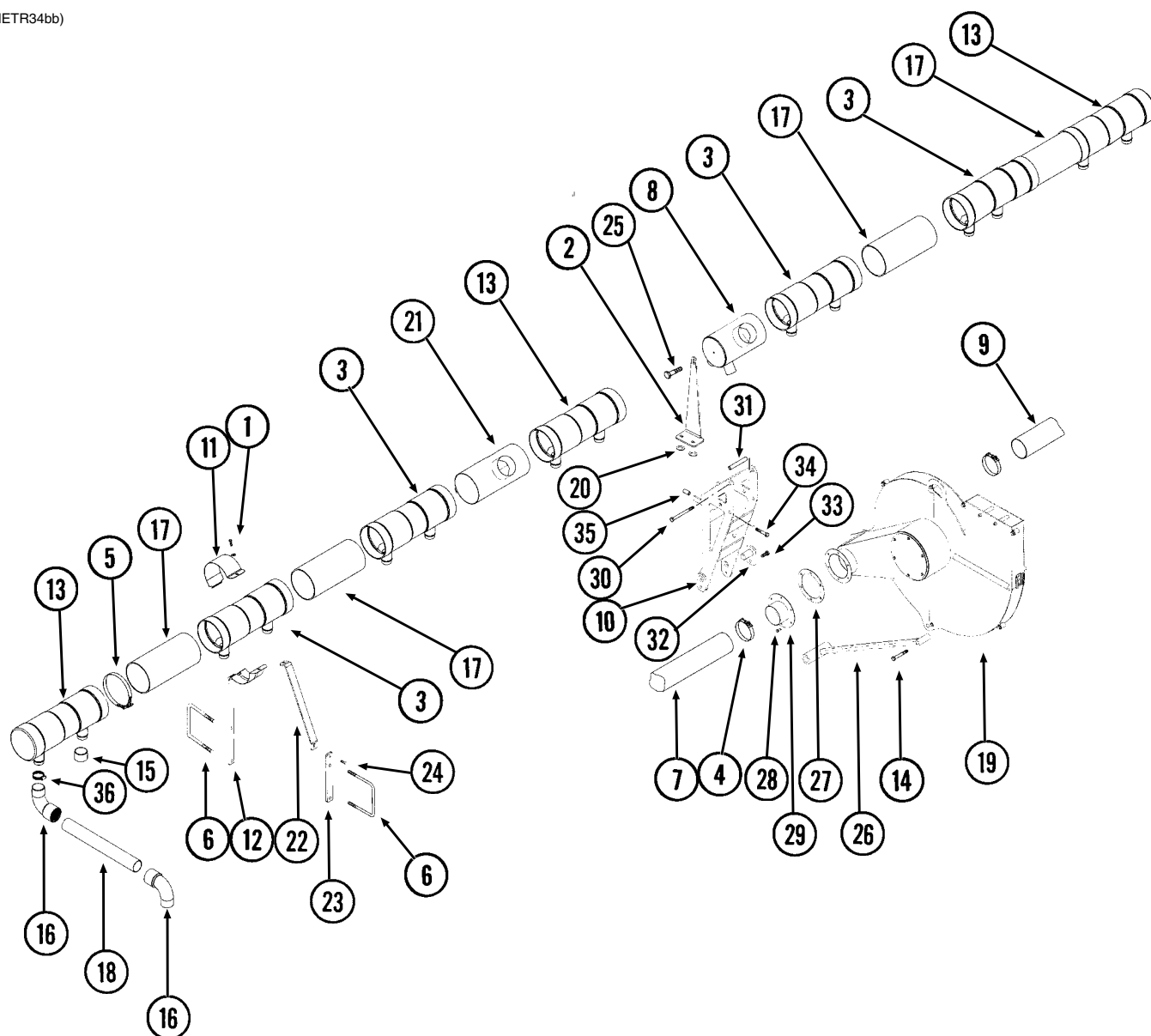
(A11068d)



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

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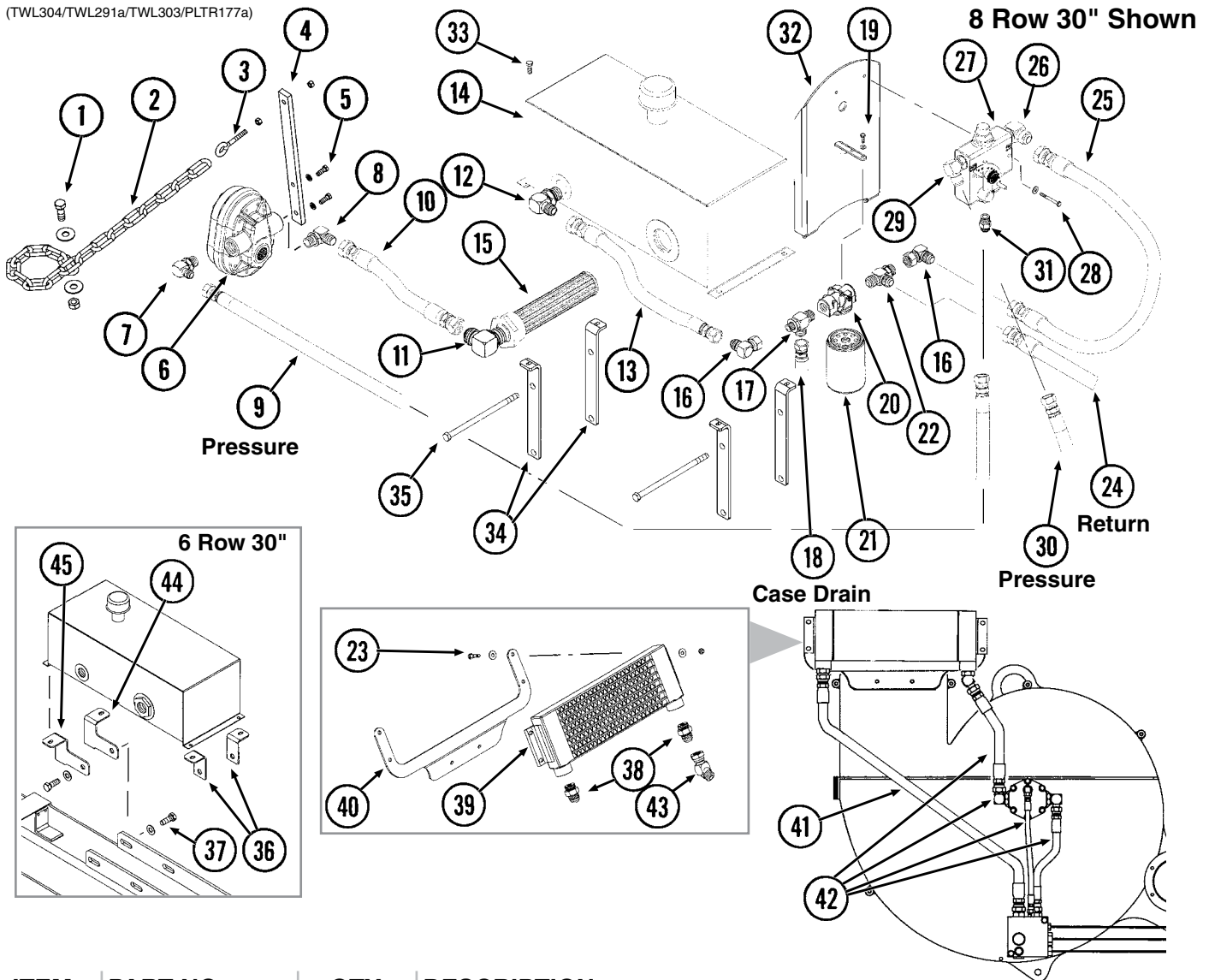
(METR34bb)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10338	-	Carriage Bolt, 5/16"-18 x 1 1/4"
	G10620	-	Serrated Flange Nut, 5/16"-18
2	GD16156	1	Bracket
3	GD15799	2-4	Manifold, 21" (Open Both Ends)
4	G11137	4	T-Bolt Clamp, 4 1/4", Stainless Steel
5	G11145	7-11	T-Bolt Clamp, 7"
6	GD11721	-	U-Bolt, 5" x 7" x 1/2"-13
	G10228	-	Lock Washer, 1/2"
	G10102	-	Hex Nut, 1/2"-13
7	GD15791-03	1	Hose, 4" x 46"
8	GA11298	1	Manifold, 11"
9	GD15791-06	1	Hose, 4" x 40"
10	GA11301	1	Fan Mount
11	GD15854	5-7	Clamp
12	GA11023	5-7	Manifold Stand

ITEM	PART NO.	QTY.	DESCRIPTION
13	GD15850	3	Manifold, 21" (Open One End)
14	G10036	1	Hex Head Cap Screw, 5/8"-11 x 4"
	G10107	1	Lock Nut, 5/8"-11
15	G11147	-	Cap, 2"
16	GD14626	12-16	Elbow, 90°, 2"
17	GD15856-01	2-4	Pipe, 6" x 14"
18	GD15792-06	-	Hose, 2" x 42" (Pull Row Units)
	GD15792-09	-	Hose, 2" x 30" (Push Row Units)
	GD15792-10	-	Hose, 2" x 60" (Push Row Units)
19	---	-	See "Digital Vacuum Gauge, Analog Vacuum Gauge, and Vacuum Fan Assembly" on page P53
20	G11387	2	Flat Washer, 3/8" SAE
21	GA10812	1	Manifold, 14"
22	GD16154	2	Stiffener
23	GD16155	2	Support
24	G10171	2	Hex Head Cap Screw, 5/16"-18 x 1 1/4"
	G11386	2	Flat Washer, 5/16" SAE
	G10232	2	Lock Washer, 5/16"
	G10106	2	Hex Nut, 5/16"-18
25	G10001	1	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	1	Lock Washer, 3/8"
	G11387	1	Flat Washer, 3/8" SAE
26	GA11295	1	Fan Strut
27	GD16251	2	Gasket
28	G10023	12	Hex Head Cap Screw, 1/4"-20 x 3/4"
	G10110	12	Lock Nut, 1/4"-20, Grade B
29	GA11296	2	Outlet, 4"
30	G10830	2	Hex Head Cap Screw, 5/8"-11 x 7 1/2"
	G10107	2	Lock Nut, 5/8"-11
31	GD3180-27	2	Sleeve, 5/8" I.D. x 7/8" O.D. x 2 1/4" Long
	GD3777-10	2	Sleeve, 1 3/4" x 3 1/8"
	GD3777-11	2	Sleeve, 1 3/4" x 2 1/2"
32	GA5121	2	Pin, 2 1/8"
33	G10581	2	Hex Head Cap Screw, 1/2"-13 x 2 1/4"
	G10228	2	Lock Washer, 1/2"
34	G10862	1	Hex Head Cap Screw, 5/8"-11 x 3 1/4"
	G10230	1	Lock Washer, 5/8"
35	GD3180-28	1	Sleeve, 5/8" I.D. x 7/8" O.D. x 2 1/4" Long
36	G10676	-	Hose Clamp, No. 36, Stainless Steel

(TWL304/TWL291a/TWL303/PLTR177a)

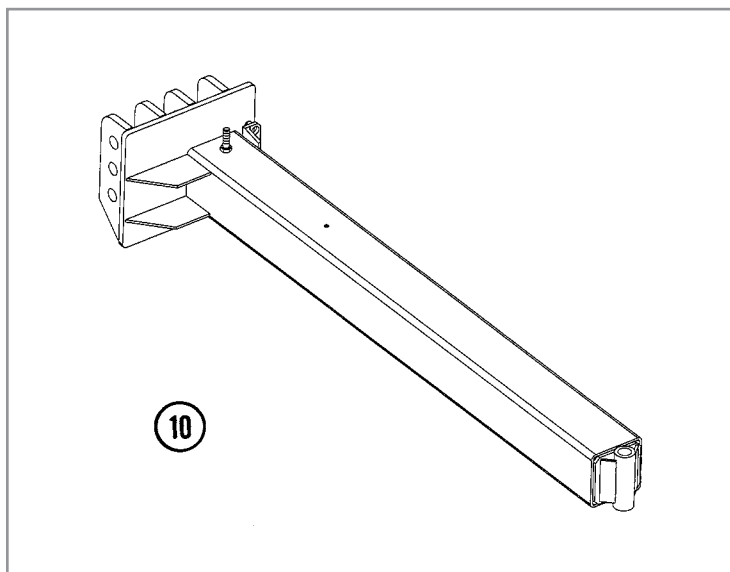
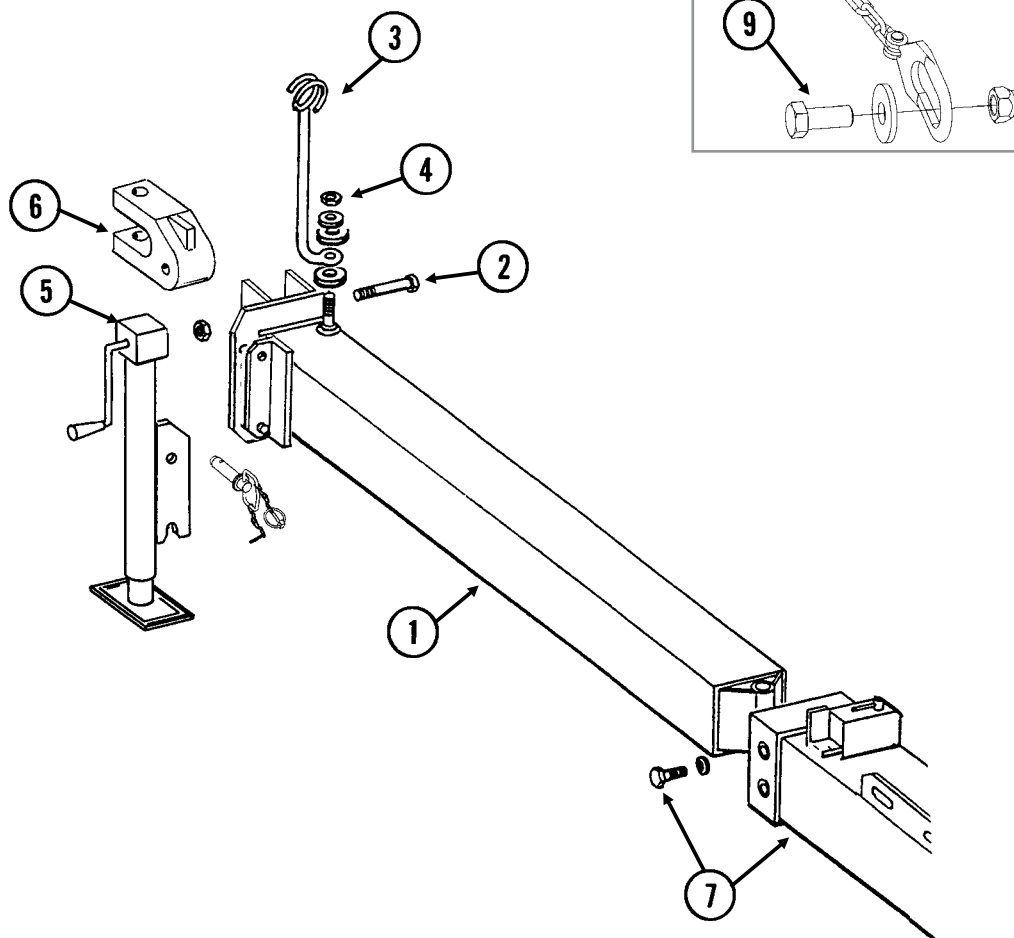


ITEM	PART NO.	QTY.	DESCRIPTION
1	G10005	1	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	G10217	2	Washer, 5/8" USS
	G10107	1	Lock Nut, 5/8"-11
2	G3302-09	1	Coil Chain, No. 9/0, 17 Links
3	GD16035	1	Eyebolt, 3/8"-16 x 4"
	G10101	2	Hex Nut, 3/8"-16
4	GD16036	1	Anti-Rotation Bracket
5	G10001	2	Hex Head Cap Screw, 3/8"-16 x 1"
	G10229	2	Lock Washer, 3/8"
6	GA10919	1	PTO Pump (1 3/8" spline)
	GA14446	-	PTO Pump (1 3/8" or 1 3/4" spline) (Seal Kit - GR2025)
7	G6801-10-12	1	Elbow W/O-Ring, 90°, 7/8"-14 Male JIC To 1 1/16"-12 O-Ring
	GR1467	-	O-Ring
8	G6801-16	1	Elbow W/O-Ring, 90°, 1 1/16"-12 Female JIC To O-Ring (Used with GA10919 PTO Pump)
	G6801-16-20	-	Elbow W/O-Ring, 90°, 1 1/16"-12 Female JIC To O-Ring (Used with GA14446 PTO Pump)
	GR1786	-	O-Ring
9	*A1462	1	Hose Assembly, 1/2" x 78", 6 Row 30"
	*A1465	-	Hose Assembly, 1/2" x 84", 8 Row 30"
10	*A6201	1	Hose Assembly, 1" x 72", 6 Row 30"
	*A6206	-	Hose Assembly, 1" x 56", 8 Row 30"

ITEM	PART NO.	QTY.	DESCRIPTION
11	G2501-16-20	1	Elbow, 90°, 1½"-12 Male JIC To 1¼" NPT
12	G2501-12-16	1	Elbow, 90°, 1½"-12 Male JIC To 1" NPT
13	*A3371	1	Hose Assembly, ¾" x 25"
14	GA12802	1	Reservoir W/Breather, 10 Gallon
	GR1834	-	Breather
15	GD16040	1	Strainer
16	G6500-12	2	Swivel Elbow, 90°, 1½"-12 Male JIC To Female
17	G6804-12-12-08	1	Adjustable Tee W/O-Ring, 1½"-12 Male JIC To 1½"-12 Male O-Ring To ¾"-16
	GR1467	-	O-Ring
18	*A3278	1	Hose Assembly, ¾" x 70", 6 Row 30"
	*A3370	-	Hose Assembly, ¾" x 80", 8 Row 30"
19	G10023	2	Hex Head Cap Screw, ¼"-20 x ¾"
	G10227	2	Lock Washer, ¼"
20	GD16038	1	Filter Head
21	GD16037	1	Oil Filter, 10 Micron
22	G6804-12	1	Adjustable Tee W/O-Ring, 1½"-12 Male JIC To O-Ring
	GR1467	-	O-Ring
23	G10171	4	Hex Head Cap Screw, ⅝"-18 x 1¼"
	G11386	8	Flat Washer, ⅝" SAE
	G10109	4	Lock Nut, ⅝"-18, Grade 8
24	*A3372	1	Hose Assembly, ¾" x 68", 6 Row 30"
	*A3377	-	Hose Assembly, ¾" x 104", 8 Row 30"
25	*A3351	1	Hose Assembly, ¾" x 20"
26	G6801-12-10	1	Elbow W/O-Ring, 90°, 1½"-12 Male JIC To ⅞"-14 O-Ring
	GR1466	-	O-Ring
27	GA10918	1	Flow Control Valve
28	G10403	2	Hex Head Cap Screw, ¼"-20 x 2½"
	G11385	4	Flat Washer, ¼" SAE
	G10110	2	Lock Nut, ¼"-20, Grade B
29	G6801-10	1	Elbow W/O-Ring, 90°, ⅞"-14 Male JIC To O-Ring
	GR1466	-	O-Ring
30	*A8280	1	Hose Assembly, ½" x 54", 6 Row 30"
	*A8279	-	Hose Assembly, ½" x 80", 8 Row 30"
31	G6400-10	1	Connector W/O-Ring, ⅞"-14 Male JIC To O-Ring
	GR1466	-	O-Ring
32	GA11523	1	Mounting Bracket
33	G10001	2	Hex Head Cap Screw, ⅜"-16 x 1"
	G11387	4	Flat Washer, ⅜" SAE
	G10108	4	Lock Nut, ⅜"-16
34	GD16034	4	Bracket, 10 ¼", 8 Row 30"
35	G11109	4	Hex Head Cap Screw, ½"-13 x 7½"
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
36	GD16640	2	Bracket, 6 Row 30"
37	G10005	4	Hex Head Cap Screw, ⅝"-11 x 1¾"
	G11391	4	Flat Washer, ⅝" SAE
	G10230	4	Lock Washer, ⅝"
	G10104	4	Hex Nut, ⅝"-11
38	G6400-12	2	Connector W/O-Ring, 1½"-12 Male JIC To O-Ring
	GR1467	-	O-Ring
39	GA10917	1	Oil Cooler
40	GD16608	1	Bracket
41	*A3369	1	Hose Assembly, ¾" x 40"
42	---	-	See "Vacuum Fan Hydraulic Components" on page P55
43	G6502-12	1	Swivel Elbow, 45°, 1½"-12 Male JIC To Female
44	GD16612	1	Mount, R.H.
45	GD16613	1	Mount, L.H.

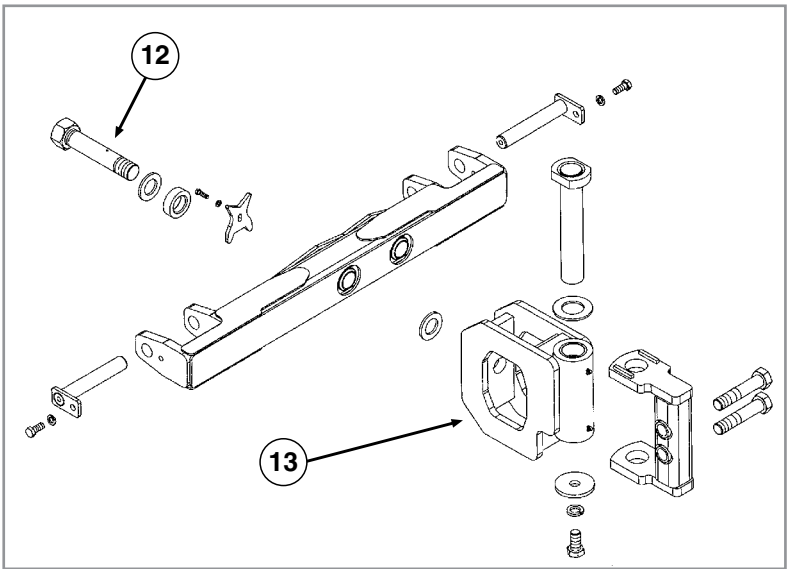
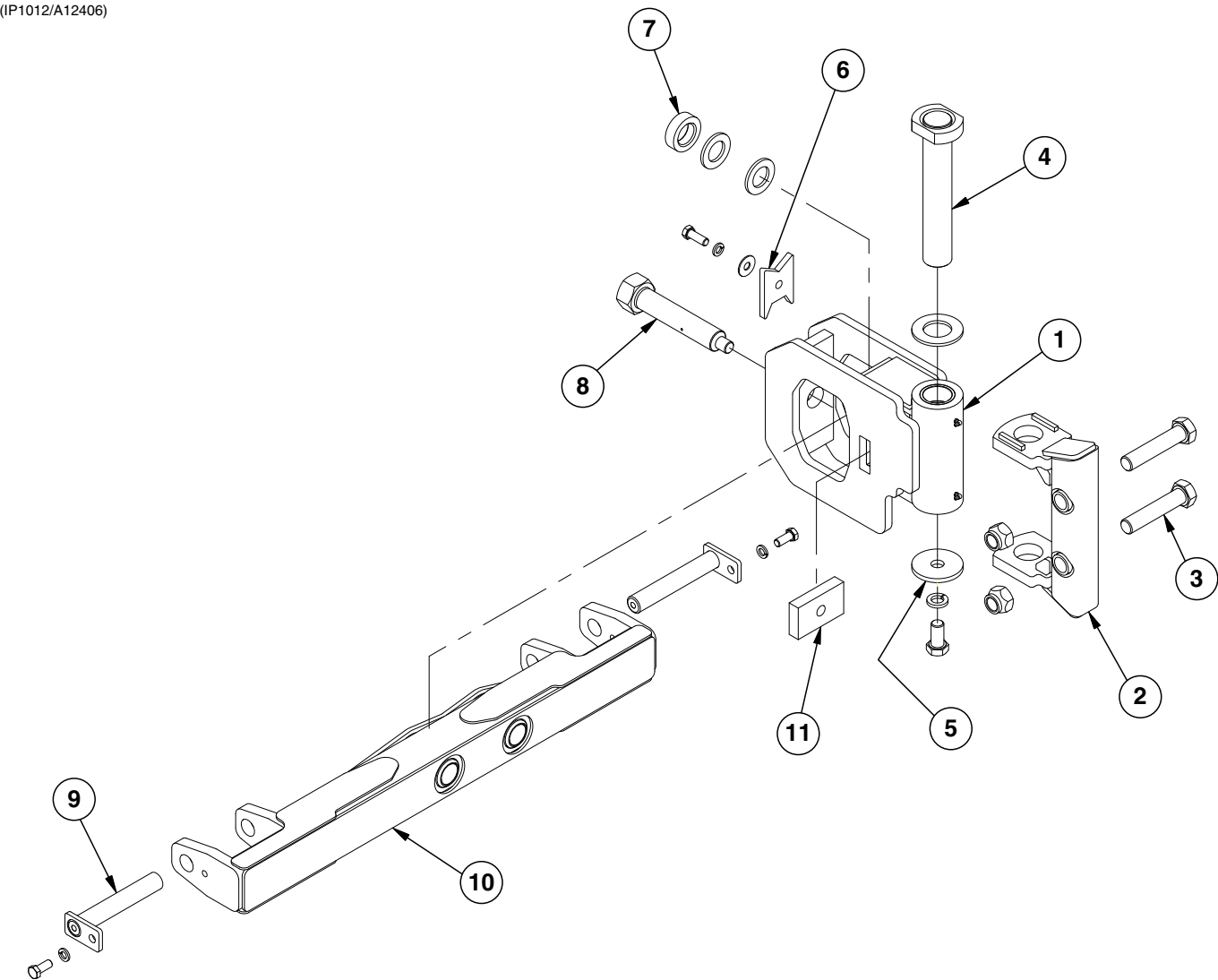
*Hydraulic hose is not stocked by Kinze Repair Parts, but can be made available on a special order basis. Call for quote.

PHA021/PHA025(A13595/TWL48c/A10709a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA8699	1	Inner Hitch, 65¼"
2	G10169	1	Hex Head Cap Screw, 1¼"-7 x 6"
	G10157	1	Lock Nut, 1¼"-7
3	GD16328	1	Hose Holder
4	G10217	2	Washer, ⅝" USS
	G10230	1	Lock Washer, ⅝"
	G10104	1	Hex Nut, ⅝"-11
5	GA13986	1	Jack Assembly Complete
	GA4995	-	Detent Pin Assembly
	GR0516	-	Crank Assembly
	GR0515	-	Bevel Gear Set, Includes: (2) Bevel Gears, (1) Gear Pin, (1) Groove Pin
6	GB0156	1	Clevis
7	---	-	See "Outer Hitch" on page P69
8	GA13595	1	Safety Chain W/Hook, ⅜"
	G1K411	-	Safety Chain Repair Kit, Includes: Hook, Flat Washer, Latch Pin, Safety Latch, Spring And Retaining Ring
9	G10494	1	Hex Head Cap Screw, 1¼"-7 x 3½"
	GD10646	1	Special Washer
	G10157	1	Lock Nut, 1¼"-7
10	GA10709	1	Inner Hitch, 65¼", 7½" Offset

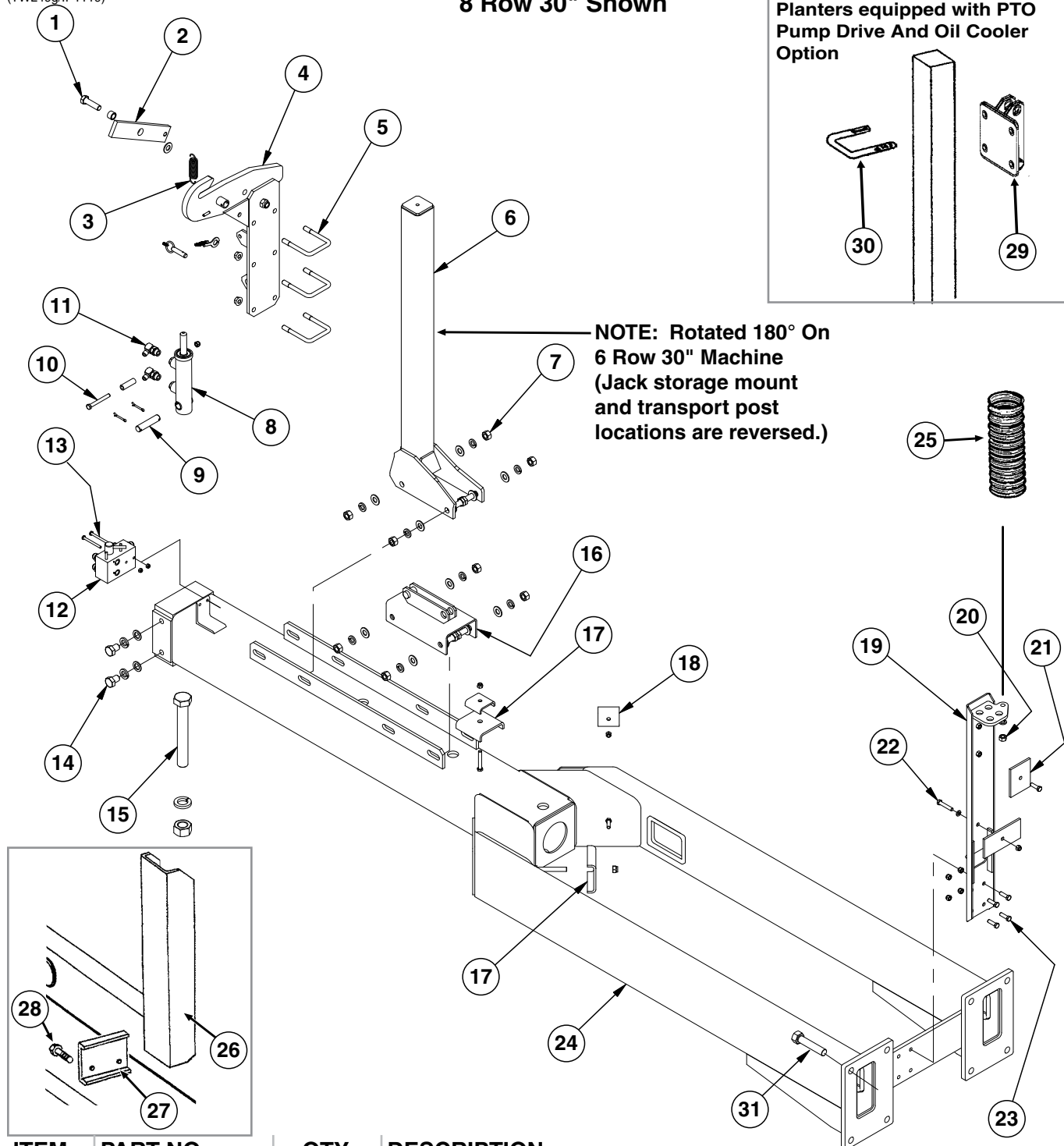
(IP1012/A12406)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA13665	1	Hitch Pivot (March 1, 2009 and on)
2	GA13783	1	Pivot Mount
3	G10169	2	Hex Head Cap Screw, 1¼"-7 x 6"
	G10157	2	Lock Nut, 1¼"-7
4	GA12163	1	Pin, 13⅜"
	GD15725	1	Washer, 4" O.D. x 2¼" I.D. x ¼"
5	GD17245	1	Washer, 4" O.D. x 1½" I.D. X ⅜"
	G11223	1	Hex Head Cap Screw, 1"-8 x 2"
	G10118	1	Lock Washer, 1"
6	GD15100	1	Pivot Lock
	G10230	1	Lock Washer, ⅝"
	G10217	1	Washer, ⅝" USS
	G10005	1	Hex Head Cap Screw, 7⁄8"-11 x 1¾"
7	GD16226	1	Sleeve, 3" O.D. x 1⅔" x 29⁄32" Thick
	GD16303	2	Washer, 3" O.D. x 1⅔" x ¼" Thick
8	GA13673	1	Pivot Pin (March 1, 2009 and on)
9	GA11079	2	Hammer Strap, Category 3 And 3N
	G10007	2	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	2	Lock Washer, ⅝"
10	GA12164	1	Hitch Bar
11	GD19468	1	Tapped Bar
12	GA11082	1	Pivot Bolt W/Grease Fitting, 1¾" x 10⅜" (Total Length) (Prior to March 1, 2009)
	G10640	-	Grease Fitting, ¼"-28
	GD16303	2	Washer, 3" O.D. x 1⅔" x ¼" Thick
	GD16226	1	Sleeve, 3" O.D. x 1⅔" x 29⁄32" Thick
13	GA11083	1	Hitch Pivot W/Bushings And Grease Fittings (Prior to March 1, 2009)
	GD14562	2	Hardened Bushing, 2¾" O.D. x 2¼" I.D. x 3"
	G10779	2	Grease Fitting, 90°, ¼"-28

(TWL49g/IP1119)

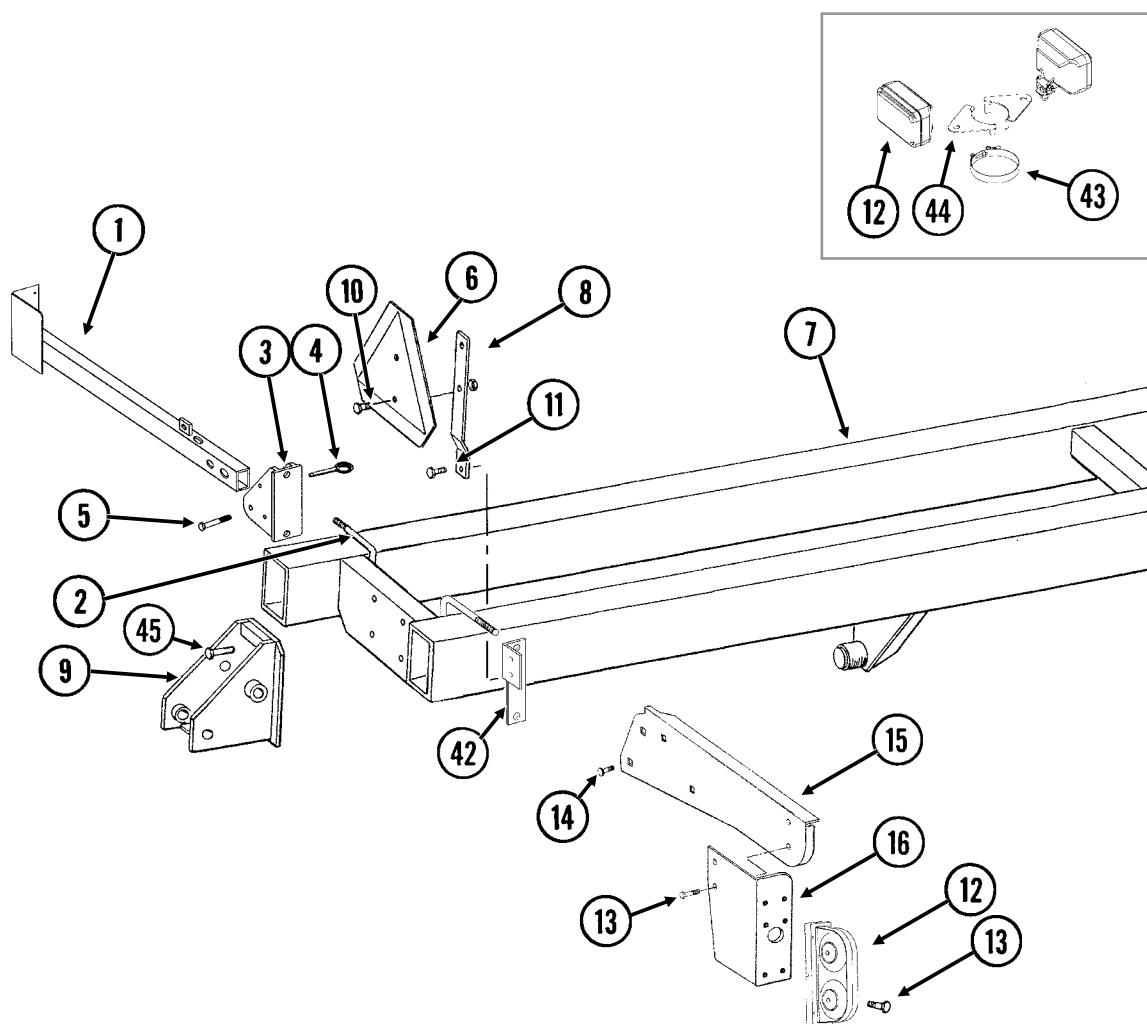
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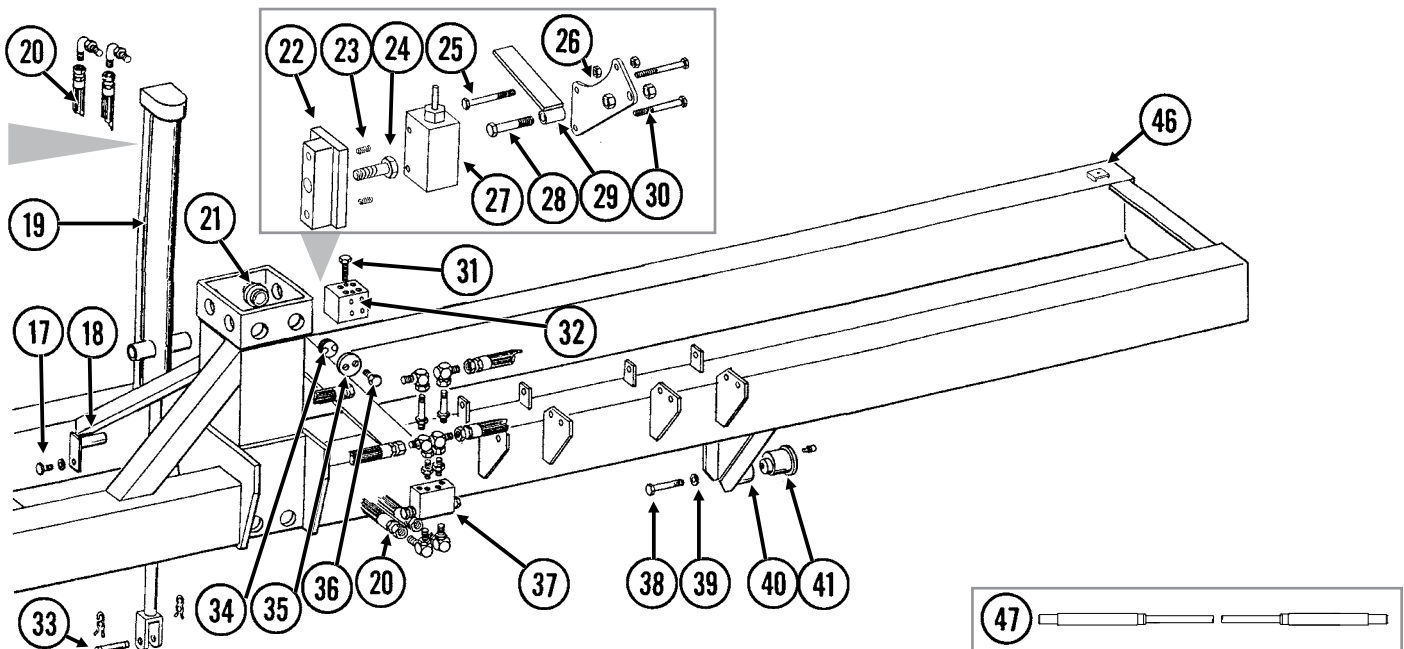
ITEM	PART NO.	QTY.	DESCRIPTION
1	G10006	1	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
	GB0218	1	Bushing, 2 1/32" I.D. x 7/8" O.D. x 1 9/32" Long
	G10107	1	Lock Nut, 5/8"-11
2	GA6422	1	Catch Bar
	G11391	1	Flat Washer, 5/8" SAE
3	GD5857	1	Spring
4	GA6420	1	Transport Catch
	G10765	1	Spring Pin, 1/4" x 1"

ITEM	PART NO.	QTY.	DESCRIPTION
5	GD4743	3	U-Bolt, 3" x 3" x 1/2"-13
	GA7022	1	Detent Pin W/Chain
	G10071	6	Serrated Flange Nut, 1/2"-13
6	GA6623	-	Transport Post, 6 Row 30"
	GA6418	-	Transport Post, 8 Row 30" (Shown)
7	G10104	4	Hex Nut, 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10005	4	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	G11391	8	Flat Washer, 5/8" SAE
8	GA9559	1	See "Transport Latch Cylinder. All Sizes" on page P93
9	GD7137	1	Pin, 3/4" x 3 3/8"
	G10457	2	Cotter Pin, 5/32" x 1 1/2"
10	G10809	1	Hex Head Cap Screw, 3/8"-16 x 3 1/4"
	GD2971-09	1	Sleeve, 2" Long
	GD3180-03	-	Sleeve, 5/8" I.D. x 7/8" O.D. x 1 15/16" Long (As Required)
	G10108	2	Lock Nut, 3/8"-16
11	G6801-06-08	2	Elbow W/O-Ring, 90°, 9/16"-18 Male JIC To 3/4"-16 O-Ring
	GR1037	-	O-Ring
12	GA6438	-	See "Selector Valve" on page P96.
13	G10746	2	Hex Head Cap Screw, 1/4"-20 x 2 3/4"
	G10110	2	Lock Nut, 1/4"-20, Grade B
14	G10716	2	Hex Head Cap Screw, 3/4"-10 x 1"
	GD2169	2	Special Washer, 25/32" I.D. x 1 1/4" O.D., Hardened
	G10231	2	Lock Washer, 3/4"
15	G10717	1	Hex Head Cap Screw, 1 1/4"-7 x 9"
	G10239	1	Hex Nut, 1 1/4"-7
	G10236	1	Lock Washer, 1 1/4"
16	GA6404	1	Jack Storage Mount
	G10104	4	Hex Nut, 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10005	4	Hex Head Cap Screw, 5/8"-11 x 1 3/4"
	G11391	8	Flat Washer, 5/8" SAE
17	GD0740	2	Hose Clamp, 3/4" x 4" x 3 1/2"
	G10111	1	Lock Nut, 1/2"-13
18	GD5875	2	Hose Clamp, 9/16" x 2 1/2" x 2"
	G10108	2	Lock Nut, 3/8"-16
19	GA11201	1	Hose Support
20	G10102	1	Hex Nut, 1/2"-13
	G10228	1	Lock Washer, 1/2"
	GA6608	1	Cable Assembly
21	GD9046	1	Hose Clamp, 3 1/4" x 4"
	G10004	1	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
22	G10048	1	Hex Head Cap Screw, 3/8"-16 x 2"
	GD16341	1	Hose Clamp, 3 3/4" x 6"
	G10229	1	Lock Washer, 3/8"
23	G10004	4	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10108	4	Lock Nut, 3/8"-16
24	GA6371	1	Outer Hitch, 125 1/2"
25	GD9129-01	1	Hose Protector, 48"
26	GD14106	1	Channel (If Applicable)
27	GD10731	1	Wire Clamp (If Applicable)
28	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4" (If Applicable)
	G10108	2	Lock Nut, 3/8"-16 (If Applicable)
29	GA11528	-	Bracket
30	GD16642	2	U-Bolt, 3" x 4" x 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
31	G10027	8	Hex Head Cap Screw, 3/4"-10 x 2 1/2"
	GD2169	8	Special Washer, 25/32" I.D. x 1 1/4" O.D., Hardened
	G10105	8	Hex Nut, 3/4"-10

(TWL50e/A9689b/TWL51bb)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA9840	1	Light Bracket
2	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
3	GB0309	1	Light Mount Bracket
4	G10874	1	Detent Pin, 1/2" x 3 1/2" Grip
5	G10033	1	Hex Head Cap Screw, 1/2"-13 x 3 1/2"
	G10206	4	Washer, 1/2" SAE
	G10111	1	Lock Nut, 1/2"-13
6	---	-	See "Decals, Paint, and Miscellaneous" on page P151
7	A6401	-	Frame, 180", 6 Row 30" (Non-Stock Item)
	A9402	-	Frame, 188", 6 Row 30" (Non-Stock Item)
	A6364	-	Frame, 240", 8 Row 30" (Non-Stock Item)
	A9401	-	Frame, 248", 8 Row 30" (Non-Stock Item)
8	GD6783	1	Bracket
9	---	-	See "Row Marker Assembly, Two-Fold Low Profile, 6 Row 30"" on page P87 See "Row Marker Assembly, Two-Fold Low Profile, 8 Row 30"" on page P89
10	G10064	2	Hex Head Cap Screw, 1/4"-20 x 1"
	G10621	2	Serrated Flange Nut, 1/4"-20

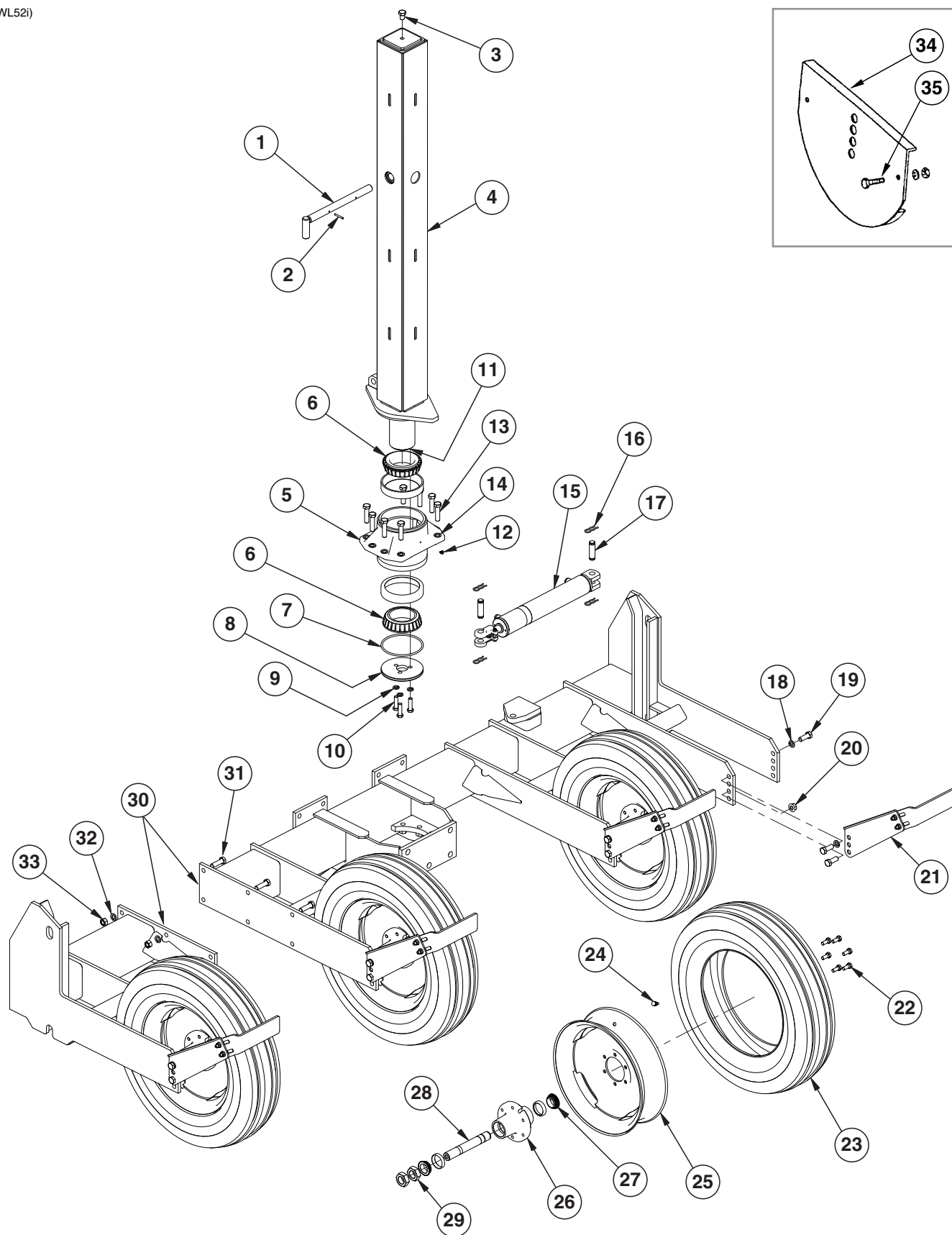


ITEM	PART NO.	QTY.	DESCRIPTION
11	G10004	2	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "
	G11091	2	Serrated Flange Nut, $\frac{3}{8}$ "-16
12	---	-	See "Electrical Components" on page P101
13	G10064	-	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x 1"
	G10227	-	Lock Washer, $\frac{1}{4}$ "
	G10103	-	Hex Nut, $\frac{1}{4}$ "-20
	G10110	-	Lock Nut, $\frac{1}{4}$ "-20, Grade B
14	G10305	2-4	Carriage Bolt, $\frac{3}{8}$ "-16 x 1"
	G11091	2-4	Serrated Flange Nut, $\frac{3}{8}$ "-16
15	GD15950	1	Light Mount Extension
16	GD12724	1	Bracket
17	G10037	2	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $1\frac{1}{4}$ "
	G10228	2	Lock Washer, $\frac{1}{2}$ "
	G10102	2	Hex Nut, $\frac{1}{2}$ "-13
18	GA5121	2	Pin, $2\frac{1}{8}$ "
19	---	-	See "Lift Cylinder" on page P94
20	---	-	See "Planter Hydraulic System" on page P99
21	GD9093	16	Poly Wear Pad
22	GA6850	1	Valve Mount
23	G10120	2	Hex Socket Set Screw, $\frac{3}{8}$ "-16 x $\frac{1}{2}$ "
24	G10005	1	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x $1\frac{3}{4}$ "
25	G10638	1	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x 2"
	G10103	2	Hex Nut, $\frac{1}{4}$ "-20
26	GD10129	1	Mounting Bracket
27	---	-	See "Stroke Limiter Valve" on page P96
28	G10048	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 2"
	G10101	2	Hex Nut, $\frac{3}{8}$ "-16
29	GA7153	1	Stroke Limiter Arm
30	G10403	2	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x $2\frac{1}{2}$ "
	G10227	2	Lock Washer, $\frac{1}{4}$ "

ITEM	PART NO.	QTY.	DESCRIPTION
31	G10172	2	Hex Head Cap Screw, 3/8"-16 x 5"
	G10108	2	Lock Nut, 3/8"-16
32	GD9971	1	Manifold Block
33	GR0375	1	Pin, 1" x 3 1/2"
	GR0193	2	Hair Pin Clip
34	GB0234	16	Adjustment Plug
35	GB0230	16	Cap
36	G10014	32	Hex Head Cap Screw, 1/2"-13 x 1"
37	---	-	See "Row Marker Sequencing/Flow Control Valve" on page P97
38	G10026	2	Hex Head Cap Screw, 3/4"-10 x 2"
	G10231	2	Lock Washer, 3/4"
39	GB0409	2	Spring Washer
40	GD10532	2	Sleeve
41	GA6497	2	Cam Follower W/Grease Fitting
	G10640	-	Grease Fitting, 1/4"-28
42	GD13250	1	SMV Bracket
43	G11159	1-2	T-Bolt Clamp, 3 1/2" Stainless Steel
44	GD16046	2	Bracket, 4 1/4" x 4"
45	G10006	4	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
46	GD5875	1	Hose Clamp, 9/16" x 2 1/2" x 2"
	G10108	1	Lock Nut, 3/8"-16
47	GA6608	-	Cable Assembly

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(TWL52i)



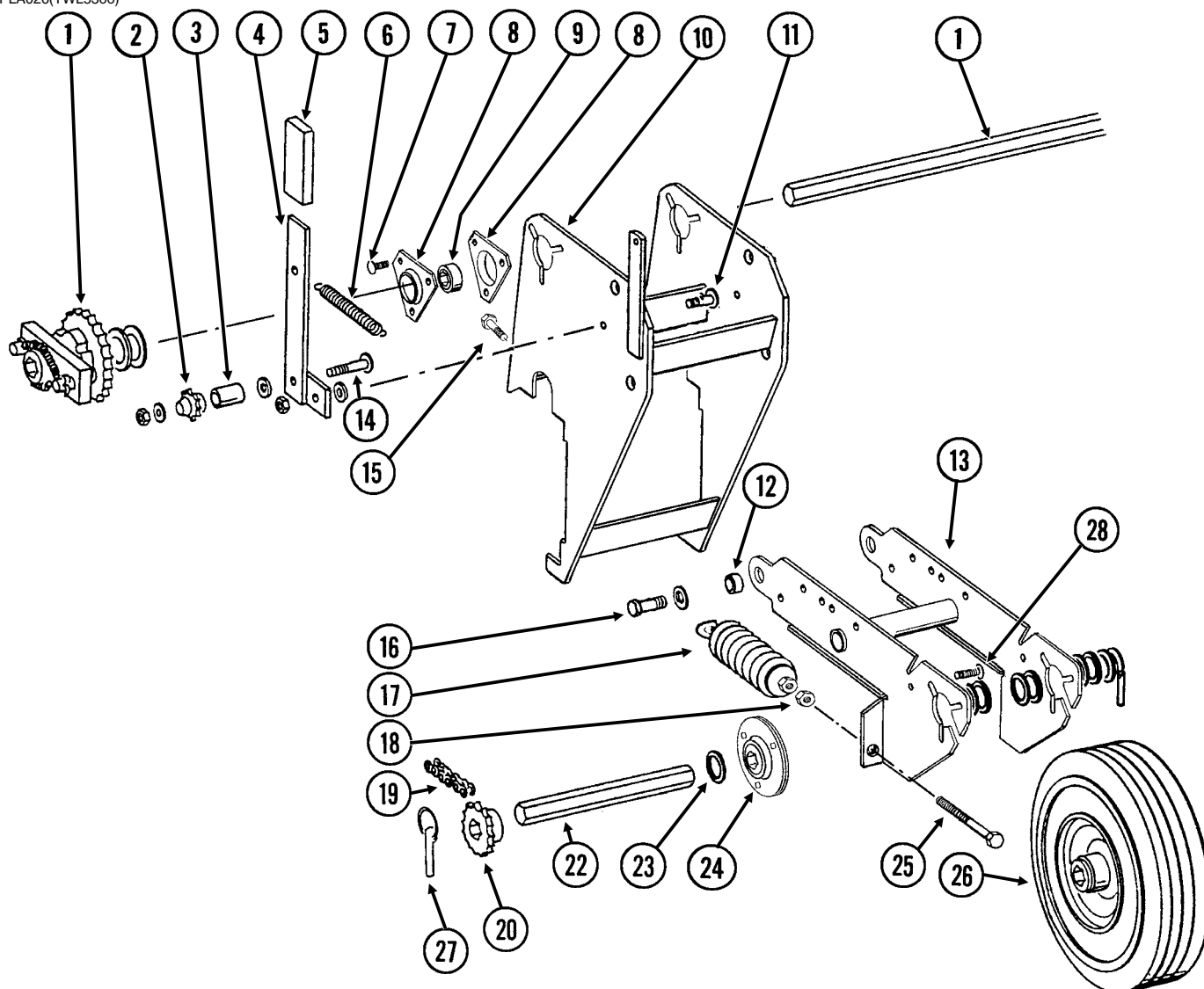
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA6849	1	Safety Lockup Pin
2	G10606	1	Spring Pin, 1/4" x 2"
	G10671	1	Slotted Spring Pin, 3/16" x 3 1/4"
3	G10716	1	Hex Head Cap Screw, 3/4"-10 x 1"
4	GA7543	1	Center Post
5	GA6496	1	Bearing Housing W/Cups, Less Grease Fitting
	GD9121	-	Cup
6	GA6435	2	Bearing
7	GD9130	1	O-Ring
8	GD9051	1	Bearing Cap
9	G10230	3	Lock Washer, 5/8"
10	G10006	3	Hex Head Cap Screw, 5/8"-11 x 2 1/4"
11	GD9124	4	Shim, .020" Thick (As Required)
	GD9123	4	Shim, .007" Thick (As Required)
	GD9122	4	Shim, .005" Thick (As Required)
12	G10779	1	Grease Fitting, 90°, 1/4"-28
13	G10028	8	Hex Head Cap Screw, 3/4"-10 x 3"
	G10105	8	Hex Nut, 3/4"-10
14	GD2169	8	Special Washer, 25/32" I.D. x 1 1/4" O.D., Hardened
15	GA8911	1	See "Rotation Cylinder" on page P93
16	GR0193	4	Hair Pin Clip
17	GR0375	2	Pin, 1" x 3 1/2"
18	G10231	8	Lock Washer, 3/4"
19	G10026	12	Hex Head Cap Screw, 3/4"-10 x 2"
20	G11314	4	Serrated Flange Nut, 3/4"-10
21	GA14416	4	Mud Scraper Assembly
	G10636	2	Carriage Bolt, 1/2"-13 x 1 1/2"
	G10071	2	Serrated Flange Nut, 1/2"-13
	GD20458	1	Slotted Scraper
	GD20456	1	Short Scraper Arm
22	GR0270	24	Lug Bolt, 9/16"-18
23	GD13401	1	Tire, 7.50" x 20", 8 Ply, Tubeless W/O Center Rib (Specify Brand*)
24	GA7434	1	Valve Stem
25	GA14413	1	Rim, 5.50" x 20"
26	GA2148	1	Hub W/Cups, 6 Bolt
	GR0434	-	Cup
27	GA0895	2	Bearing
28	GA4693	1	Spindle, W/Round External Retaining Ring, 10 1/2"
	GD11490	-	Round External Retaining Ring
29	G11081	2	Hex Jam Nut, 1 1/2"-12, Grade 2
30	GA17063	1	Axle W/Stub (Domestic)
	GA17067	-	Axle W/Stub (Export)
	GA17066	-	Stub Axle
31	G10027	6	Hex Head Cap Screw, 3/4"-10 x 2 1/2"
32	G10231	6	Lock Washer, 3/4"
33	G10105	6	Hex Nut, 3/4"-10
34	GA6529	-	Rock Guard (Optional)
35	G10037	-	Hex Head Cap Screw, 1/2"-13 x 1 1/4"
	G10228	-	Lock Washer, 1/2"
	G10102	-	Hex Nut, 1/2"-13

A GA14412 4 Tire and Rim Assembly (Specify Brand*) (Items 23-25)

B GA6428 4 Hub And Spindle Assembly (Items 26-29)

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

PLA026(TWL5300)

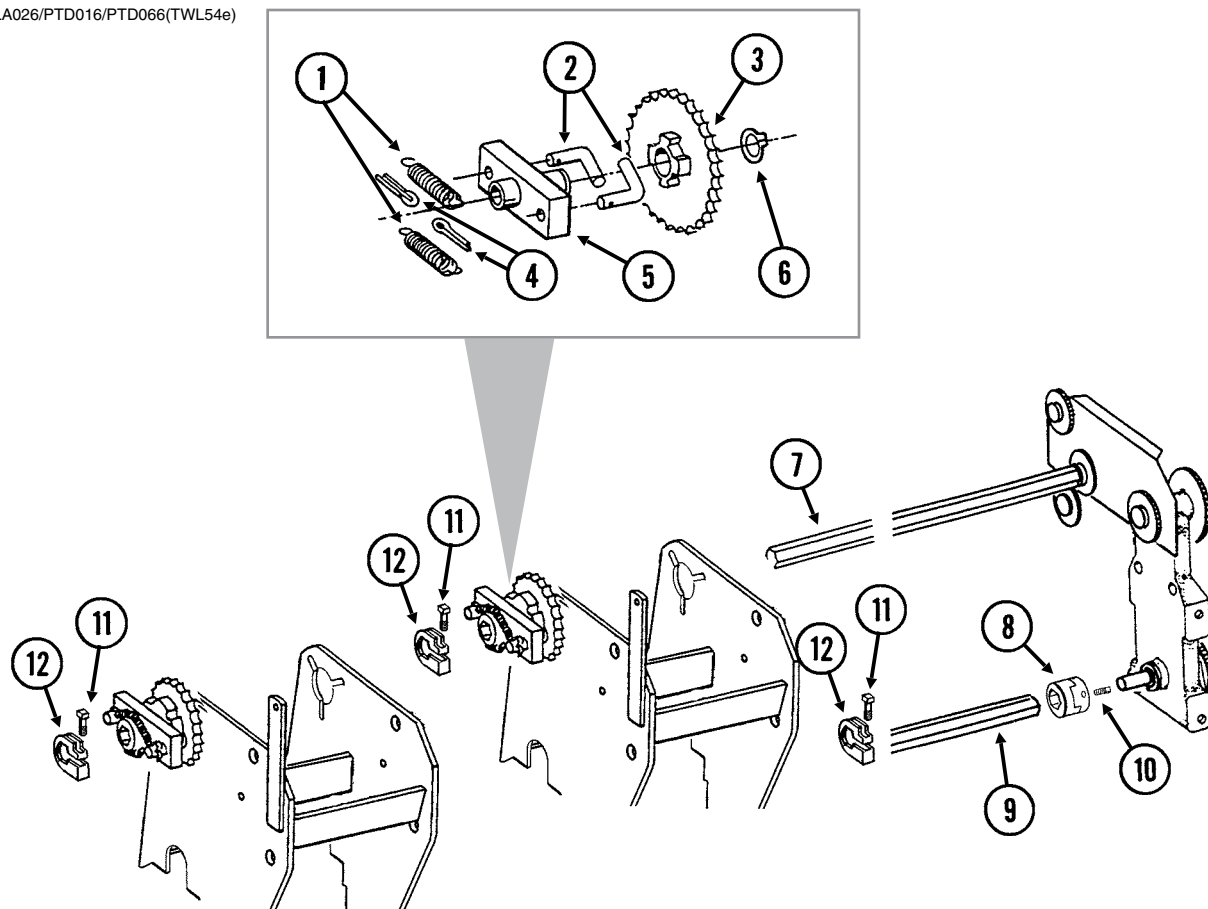


ITEM	PART NO.	QTY. (Per Wheel)	DESCRIPTION
1	---	-	See "Driveline" on page P79
2	GD7426	1	Sprocket, 12 Tooth
3	GD1026	1	Sleeve, 1 $\frac{3}{16}$ " Long
4	GA5157	1	Idler Arm, L.H.
5	GD5827	1	Cover
6	GD5857	1	Spring
7	G10303	3	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G10620	3	Serrated Flange Nut, $\frac{5}{16}$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

ITEM	PART NO.	QTY. (Per Wheel)	DESCRIPTION
13	A7369	1	Wheel Arm (Non-Stock Item)(Sub G1K253)
14	G10306	1	Carriage Bolt, 3/8"-16 x 2"
	G11387	-	Flat Washer, 3/8" SAE (As Required)
	G10108	1	Lock Nut, 3/8"-16
15	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10229	2	Lock Washer, 3/8"
	G10101	2	Hex Nut, 3/8"-16
16	G10751	2	Hex Head Cap Screw, 5/8"-18 x 1 3/4"
	G10235	6	Machine Bushing, 7/8", 14 Gauge
	G11391	2	Flat Washer, 5/8" SAE
	G10412	2	Lock Nut, 5/8"-18
17	GA2068	2	Spring W/Plug
18	G10501	2	Hex Jam Nut, 1/2"-13, Grade 2
19	G3310-116	1	Chain, No. 40, 116 Pitch Including Connector Link (Used With 15 And 19 Tooth Sprockets)
	G3310-124	1	Chain, No. 40, 124 Pitch Including Connector Link (Used With 30 Tooth Sprocket)
	GR0912	-	Connector Link, No. 40
20	GA5105	1	Sprocket, 15 Tooth
	GA5107	-	Sprocket, 19 Tooth
	GA5114	-	Sprocket, 30 Tooth
21	G10602	1	Spring Pin, 1/4" x 1 1/2"
22	GD6825-10.375	1	Hex Shaft, 7/8" x 10 3/8" (2 Holes)
23	G10233	6	Machine Bushing, 1 1/2" x 1/32", 10 Gauge
24	GA9846	-	Flanged Bearing, 7/8" Hex Bore
25	G10890	2	Hex Head Adjusting Bolt, 1/2"-13 x 4", Grade 2
26	GA5090	-	Tire And Rim Assembly (Specify Brand*)
	GD5753	1	Tire, 4.10" x 6" (Specify Brand*)
	GD5752	1	Inner Tube
27	GD2558	1	Lynch Pin, 1/4"
28	G10303	-	Carriage Bolt, 5/16"-18 x 1"
	G10232	-	Lock Washer, 5/16"
	G10106	6	Hex Nut, 5/16"-18
A	G1K253	-	Contact Wheel Arm Replacement Kit (Items 13, 18, 21, 22, 24, 25, 27 And 28)

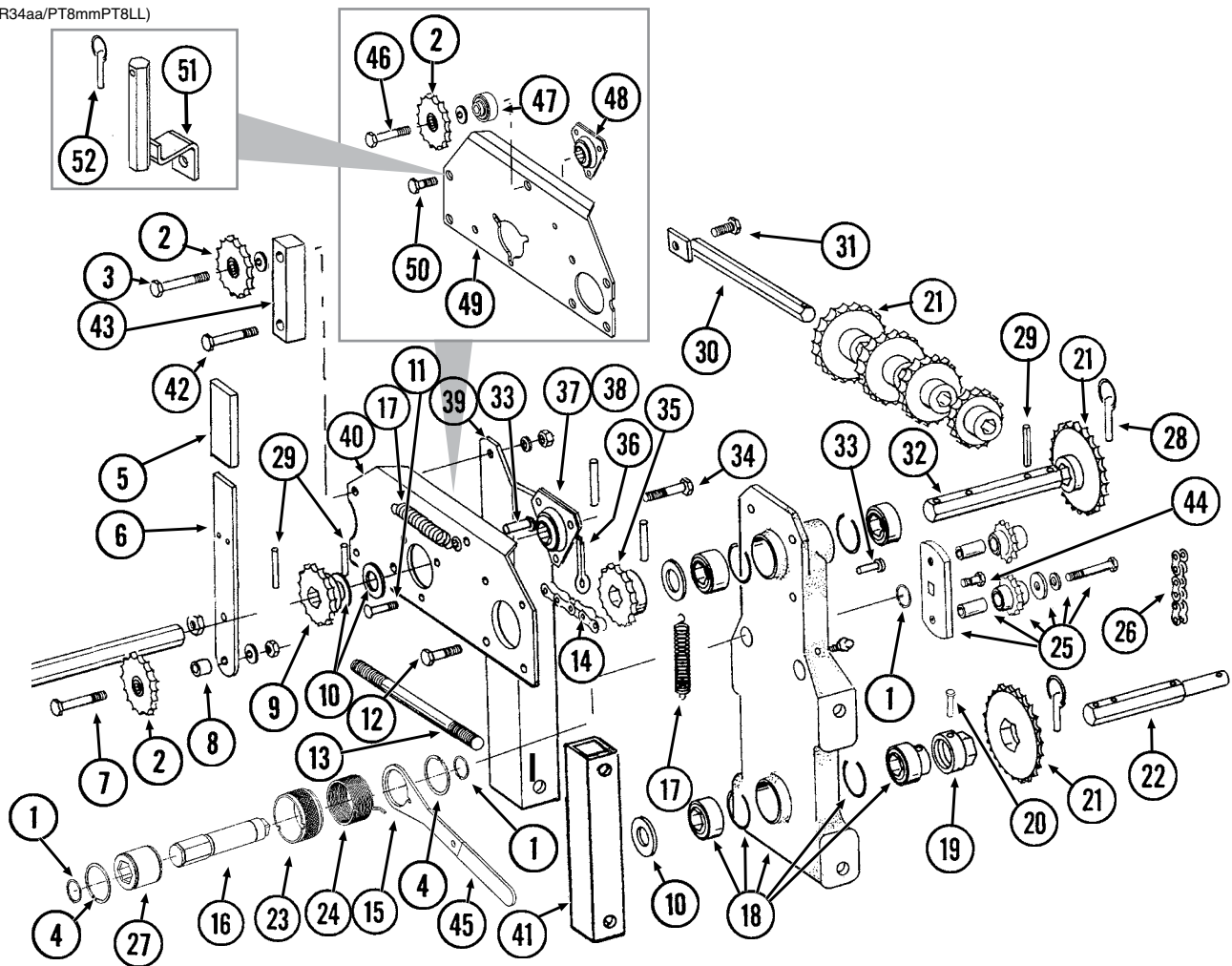
***Specific brand requests will be supplied only as available from current Kinze Repair Parts stock. If a specific brand requested is not in stock, the brand available will be supplied. Different brand tires may have different diameters. Change in tire brand may affect rates. Field checks are recommended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

PTD033/PLA026/PTD016/PTD066(TWL54e)



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

(METR34aa/PT8mmPT8LL)



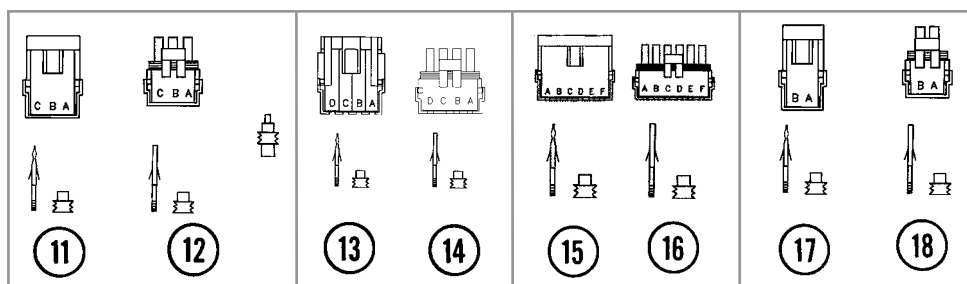
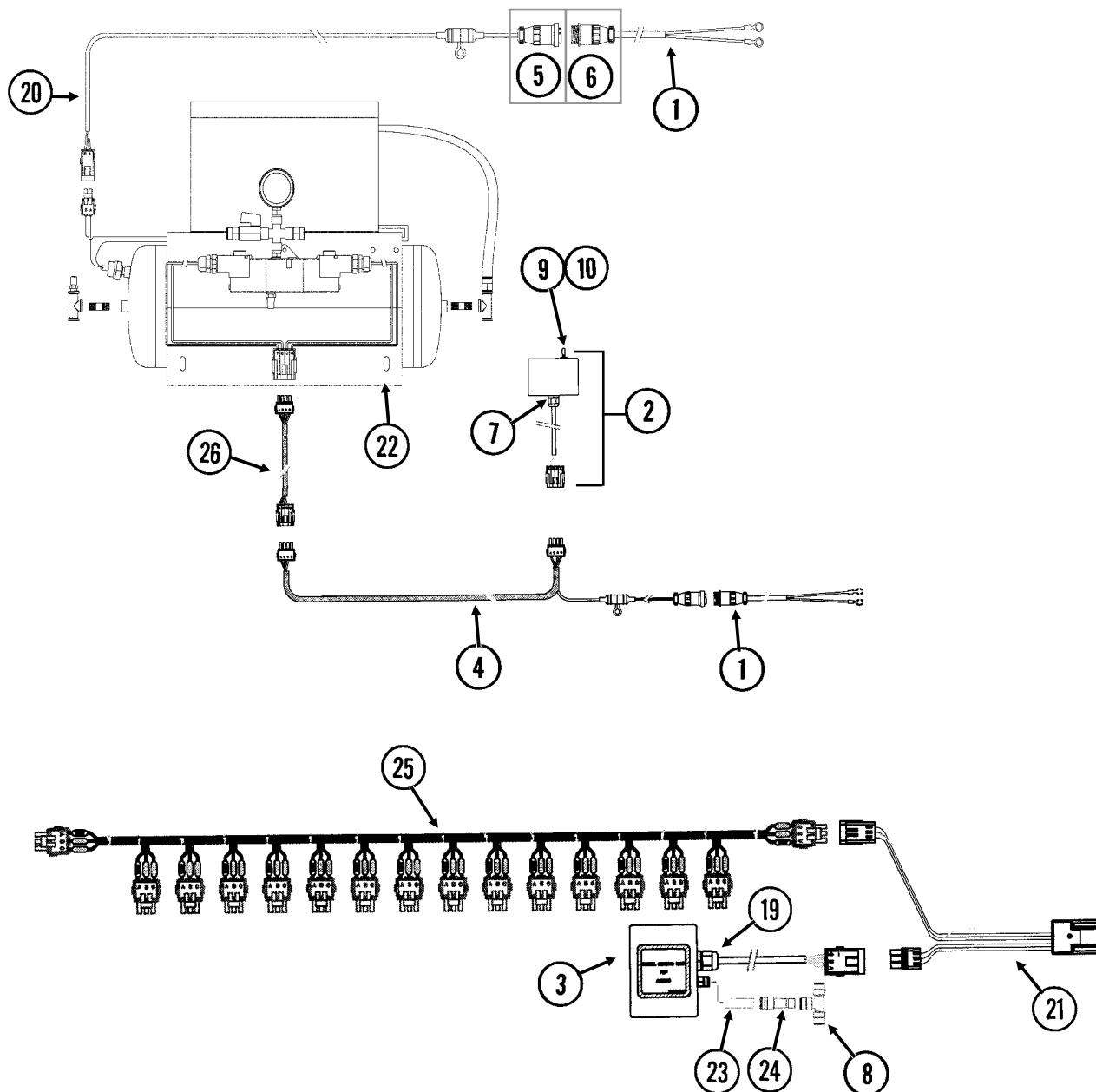
ITEM	PART NO.	QTY.	DESCRIPTION
1	G11075	3	Internal Inverted Snap Ring, $\frac{7}{8}$ "
2	GA7154	2	Sprocket W/Bearing, 18 Tooth
3	G10033	1	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $3\frac{1}{2}$ "
	G10128	-	Machine Bushing, $\frac{1}{2}$ ", 14 Gauge (As Required)
	G10111	1	Lock Nut, $\frac{1}{2}$ "-13
4	G10496	2	External Inverted Snap Ring, $1\frac{1}{2}$ "
5	GD5827	1	Cover
6	GD5829	1	Arm
7	G10053	1	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $2\frac{1}{2}$ "
	G10128	-	Machine Bushing, $\frac{1}{2}$ ", 14 Gauge (As Required)
	G10228	1	Lock Washer, $\frac{1}{2}$ "
	G10102	1	Hex Nut, $\frac{1}{2}$ "-13
8	GD4887-01	1	Sleeve, $\frac{1}{2}$ " I.D. x $\frac{5}{8}$ " Long
9	GA5105	1	Sprocket, 15 Tooth
10	G10233	-	Machine Bushing, 1", 10 Gauge
11	G10303	3	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G10620	3	Serrated Flange Nut, $\frac{5}{16}$ "-18
12	G10037	3	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $1\frac{1}{4}$ "
	G10228	3	Lock Washer, $\frac{1}{2}$ "
	G10102	3	Hex Nut, $\frac{1}{2}$ "-13

Continued on the next page.

ITEM	PART NO.	QTY.	DESCRIPTION
13	G10177	2	Hex Head Cap Screw, 5/8"-11 x 9 1/2"
	G10230	2	Lock Washer, 5/8"
	G10104	2	Hex Nut, 5/8"-11
14	G3310-92	1	Chain, No. 40, 92 Pitch Including Connector Link
	G3310-100	-	Chain, No. 40, 100 Pitch Including Connector Link, Used With Half Rate (2 To 1)
			Drive Reduction (Mechanical only)
	GR0912	-	Connector Link, No. 40
15	GD14431	1	Handle
16	GD14427	1	Tightener Shaft, 4 7/8"
17	GD5857	2	Spring
18	GA5629	1	Transmission Plate W/Bearings, Grease Fittings And Retaining Rings
	GA5116	3	Bearing, 7/8" Hex Bore, Cylindrical
	GA5624	1	Special Bearing, 7/8" Hex Bore x 1.6"
	GD6551	4	Ring
	G10641	-	Grease Fitting, 1/8" NPT
19	GD7127	1	Shear Coupler
20	G10821	1	Clevis Pin, 3/16" x 2"
	G10455	-	Cotter Pin, 1/16" x 1/2"
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, 7/8" x 7"
23	GD19343	1	Release Collar, Gold, R.H.
24	GD14413	1	Torsion Spring, L.H. (Used On R.H. Wrap Spring Wrench)
25	GA7336	1	Idler W/Bolt-On Sprockets
	GD7426	-	Sprocket, 12 Tooth
	GD1026	-	Sleeve, 1 3/16" Long
	G10203	-	Washer, 3/8" SAE
	G10229	-	Lock Washer, 3/8"
	G10047	-	Hex Head Cap Screw, 3/8"-16 x 1 3/4"
26	G3310-80	1	Chain, No. 40, 80 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
27	GD14432	1	Sleeve, 1 1/4"
28	GD2558	3	Lynch Pin, 1/4"
29	G10602	5	Spring Pin, 1/4" x 1 1/2"
30	GA5146	1	Sprocket Storage Rod
31	G10017	1	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10527	1	Lock Washer, 1/2" Internal/External
	G10111	1	Lock Nut, 1/2"-13
32	GD5835	1	Shaft, 7/8" x 7"
33	G10870	1	Clevis Pin, 3/8" x 1"
	G10860	1	Retaining Ring, 3/8"
34	G10004	1	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10229	1	Lock Washer, 3/8"
	G10203	-	Washer, 3/8" SAE (As Required)
	GD15538	-	Spacer, 3/8" I.D. x 7/8" O.D., 7 Gauge
	GD5756	1	Special Nut, 3/8"-16

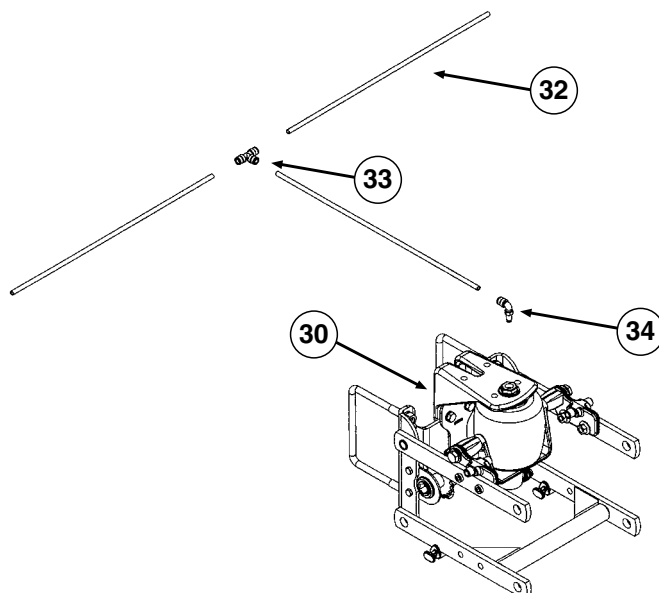
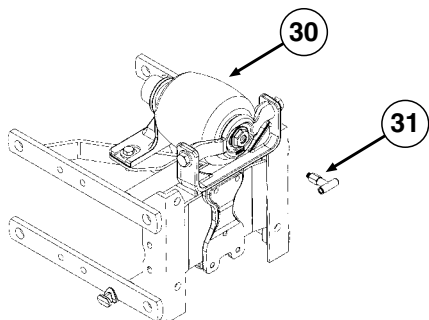
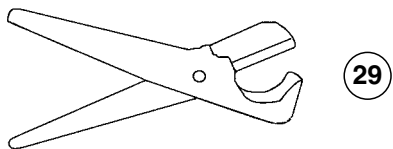
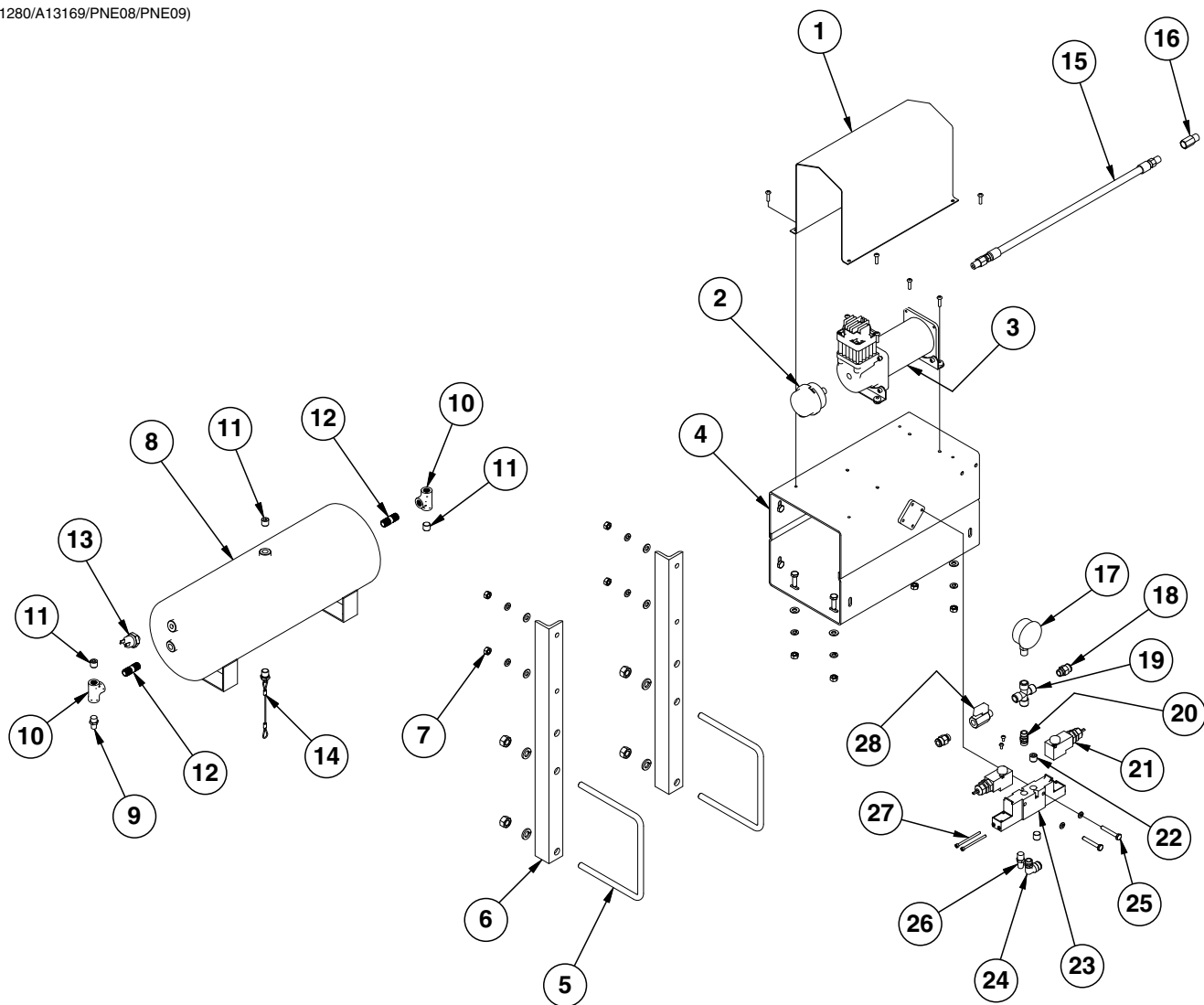
ITEM	PART NO.	QTY.	DESCRIPTION
35	GA5106	1	Sprocket, 17 Tooth, Standard Drive (Mechanical)
	GA5108	-	Sprocket, 23 Tooth, (EdgeVac)
	GA5202	-	Sprocket, 34 Tooth, Half Rate (2 To 1) Drive Reduction (Mechanical only)
36	G10460	1	Cotter Pin, 1/4" x 2"
37	GA7841	1	Bearing, 7/8" Hex Bore, Spherical
38	G3400-01	2	Flangette
39	GD5830	1	Angle Support, R.H.
40	GD5824	1	Plate, R.H.
41	GD9047	1	Spacer
42	G10053	1	Hex Head Cap Screw, 1/2"-13 x 2 1/2"
	G10228	1	Lock Washer, 1/2"
	G10102	1	Hex Nut, 1/2"-13
43	GD12571	1	Spacer, 1" x 4"
44	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"
45	G11078	1	Vinyl Cap
46	G10038	1	Hex Head Cap Screw, 1/2"-13 x 3"
	G10128	-	Machine Bushing, 1/2", 14 Gauge (As Required)
	G10228	1	Lock Washer, 1/2"
	G10102	1	Hex Nut, 1/2"-13
47	GB0259	-	Spacer, 1"
48	GA7841	-	Bearing, 7/8" Hex Bore
49	GD16302	-	Reverser Plate
50	G10017	2	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
51	GA12178	1	Sprocket Storage Rod (EdgeVac) See Item No. 21 for Sprockets
52	GD2558	-	Lynch Pin, 1/4"
A	G1K378	1	Wrap Spring Wrench Replacement Kit, Gold Collar, R.H. (Items 1, 4, 15, 16, 23, 24, 27, 44 And 45)

(PNE01/MTR27a/ELC27b/MTR45/MTR27i)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7856	2	Power Lead Adapter
2	GA12644	1	Control Console Assembly
3	GA12646	1	Sending Unit
4	GA12645	1	Wiring Harness W/Fuse Holder And Fuse, 206"
	GD14258	-	Fuse Holder
	GD14660	-	Fuse, 2 Amp Delay Action
5	G1K268	-	Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (1) Lock Ring, (3) Female Terminal Pins
6	G1K267	-	Console Cable Connector Kit, Includes: (1) 3-Pin Connector, (1) Cable Clamp, (3) Male Terminal Pins
7	GA9963	1	Strain Relief
8	GD18010	1	Tee, 3/8" Tube Union
9	GR1363	1	Hex Face Nut, 1 1/32"-32
10	GA6978	1	Switch, 3 Position Toggle, ON-OFF-ON
11	G1K248	-	3-Pin Female Connector Kit (Black), Includes: (3) 3-Pin Female Housings, (9) Pin Contacts, (9) Seals
12	G1K252	-	3-Pin Male Connector Kit (Black), Includes: (3) 3-Pin Male Housings, (9) Socket Contacts, (9) Seals
13	GA8328	-	4-Pin Female Connector Kit, Includes: (1) 4-Pin Female Housing, (4) Pin Contacts, (4) Seals
14	GA8329	-	4-Pin Male Connector Kit, Includes: (1) 4-Pin Male Housing, (4) Socket Contacts, (4) Seals
15	G1K396	-	6-Pin Female Connector Kit (Black), Includes: (3) 6-Pin Female Housings, (18) Pin Contacts, (18) Seals
16	G1K395	-	6-Pin Male Connector Kit (Black), Includes: (3) 6-Pin Male Housings, (18) Socket Contacts, (18) Seals
17	G1K321	-	2-Pin Female Connector Kit (Black), Includes: (3) 2-Pin Female Housings, (6) Pin Contacts, (6) Seals
18	G1K320	-	2-Pin Male Connector Kit (Black), Includes: (3) 2-Pin Male Housings, (6) Socket Contacts, (6) Seals
19	GA9964	2	Strain Relief
20	GA16391	1	Compressor Harness, 40'
21	GA12812	1	Hall Effect Adapter
22	---	-	See "Pneumatic Down Pressure Air Compressor. Dual Solenoid Assembly. Tubing, and Fittings" on page P85
23	GD17151-06	1	Nylon Tubing, 1/4" O. D. x 1 1/2"
24	GD18796	1	Reducer, 3/8" To 1/4"
25	---	-	See "KPM I Electronic Seed Monitor" on page P103 See "KPM II Stack-Mode Electronic Seed Monitor" on page P105 See "KPM III Electronic Seed Monitor" on page P107
26	GA12858	1	Wiring Harness, 60'

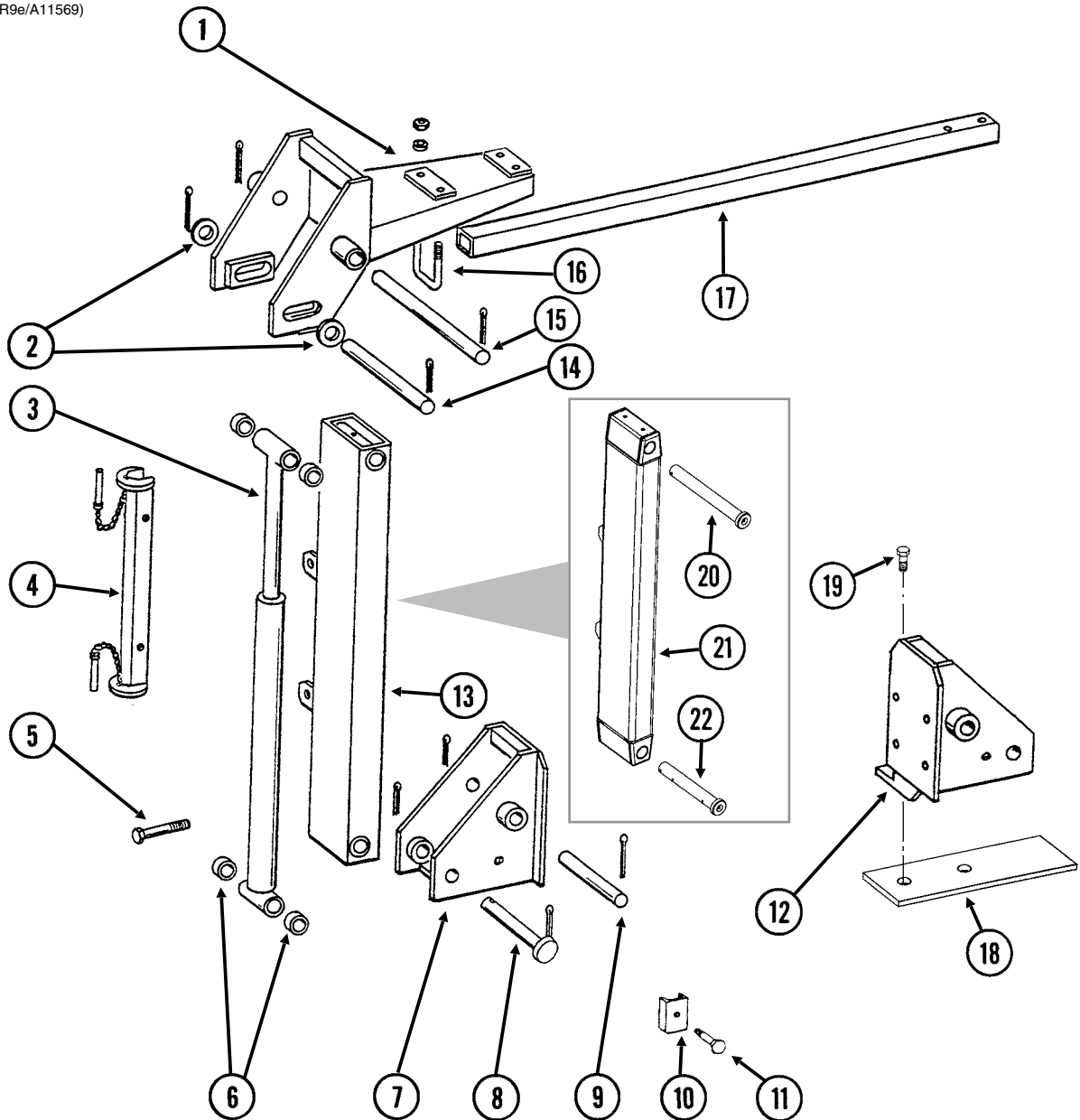
(IP1280/A13169/PNE08/PNE09)



Pneumatic Down Pressure Air Compressor, Dual Solenoid Assembly, Tubing, and Fittings

ITEM	PART NO.	QTY.	DESCRIPTION
1	GD18112	1	Cover
	G11066	4	Phillips Pan Head Machine Screw, No. 10-24 x ¾", Stainless Steel
	G10992	4	Serrated Flange Nut, No. 10-24
2	GA14127	1	Filter Assembly
	GR1943	1	Filter
3	GA12102	1	Air Compressor
	G11066	4	Phillips Pan Head Machine Screw, No. 10-24 x ¾", Stainless Steel
	G10992	4	Serrated Flange Nut, No. 10-24
4	GA12358	1	Mount
	G10019	4	Hex Head Cap Screw, ⅝"-18 x 1"
	G10232	4	Lock Washer, ⅝"
	G11386	4	Flat Washer, ⅝" SAE
	G10106	4	Hex Nut, ⅝"-18
5	GD11721	2	U-Bolt, 5" x 7" x ½"-13
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
6	GD18119	2	Compressor Mount
7	G10106	4	Hex Nut, ⅝"-18
	G10232	4	Lock Washer, ⅝"
	G11386	4	Flat Washer, ⅝" SAE
	G10019	4	Hex Head Cap Screw, ⅝"-18 x 1"
8	GA11988	1	Tank, 3 Gallon
9	GA13512	1	Valve Stem, ¼" NPT
10	GD19237	2	Tee, ¼" NPT
11	GD17156	3	Plug, ¼" NPT
12	GD19238	2	Nipple, ¼" NPT
13	GR1778	1	Pressure Switch
14	GA11991	1	Drain, ¼" NPT
15	GR1951	1	Leader Hose without Check Valve
16	GR1921	1	Check Valve
17	GA12104	1	Pressure Gauge, ¼" NPT
18	GD17141	2	Connector, ¼" Male
19	GD18078	1	Female Cross, ¼" NPT
20	GD17154	1	Connector, ¼" Male
21	GA11994	2	Solenoid
	G11311	4	Slotted Pan Head Machine Screw, M4-.07 x 8mm
22	GD17156	2	Plug, ¼" NPT
23	GA11993	1	Block
24	GD17143	1	Swivel Elbow, ¼" NPT x ⅜"
25	G10040	2	Hex Head Cap Screw, ¼"-20 x 1¾"
	G10227	2	Lock Washer, ¼"
26	GA11997	1	Breather, ¼" NPT
27	GR1952	4	Socket Head Cap Screw, #8-32 x 2"
	GR1953	4	O-Ring
	G10256	4	Lock Washer, No. 8
28	GA11992	1	Shutoff Valve, ¼" NPT
29	GA13169	1	Tube Cutter W/Blade
	GR1843	-	Blade
30	---	-	See "Parallel Arms, Mounting Support Plate, and Pneumatic Down Pressure Package Option" on page P3
31	GD18274	-	Tee, ⅜" x ⅝" NPT Extended, Push Row Unit
32	GD17150-01	-	Nylon Tubing, ⅜" O.D. x 32', 6 Row Pull Row Units
	GD17150-02	-	Nylon Tubing, ⅜" O.D. x 44', 8 Row Pull Row Units
	GD17150-11	-	Nylon Tubing, ⅜" O.D. x 28', 5 Row Push Row Units
	GD17150-10	-	Nylon Tubing, ⅜" O.D. x 40', 7 Row Push Row Units
	GD17150-12	-	Nylon Tubing, ⅜" O.D. x 5', Even-Row Push Row Unit
33	GD18010	-	Tee, ⅜" Tube Union
34	GD18011	-	Elbow, ⅜" x ⅝" NPT Extended
A	GA12626	1	Air Compressor Assembly (Items 1-4, 8-14)
B	GA11995	1	Dual Solenoid Assembly (Items 17-19, 21-24, and 26-28)
C	GR1783	-	Valve Seal Kit

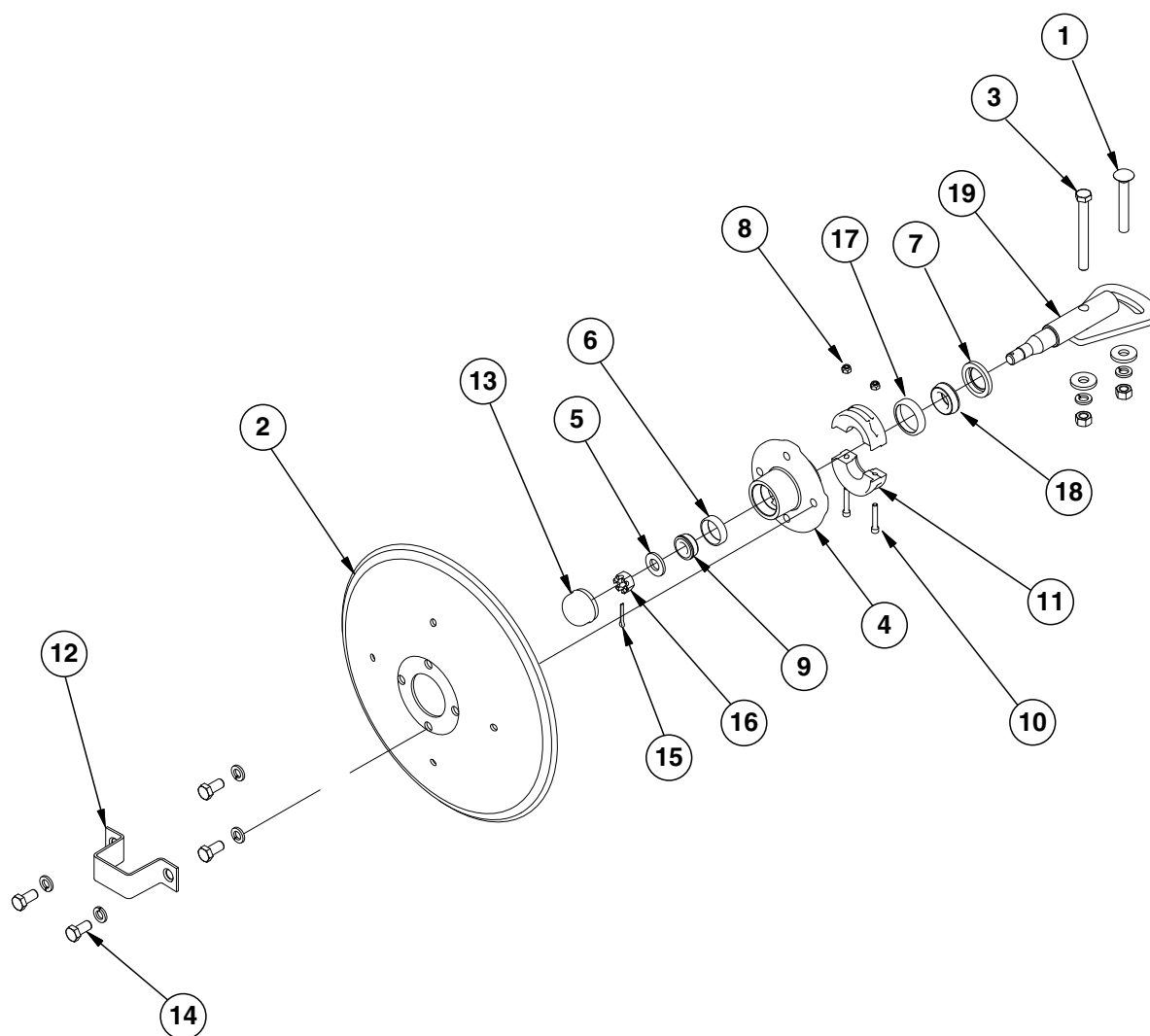
MKR025/PFA054(MKR9e/A11569)



ITEM	PART NO.	QTY. (Per Marker)	DESCRIPTION
1	GA6442	1	Arm, Second Stage, 20"
2	G11396	2	Flat Washer, 1¼" SAE
3	---	-	See "Row Marker Cylinder" on page P95
4	GA5526	1	Safety Lockup W/Detent Pins (Sub GA8170)
	G10536	-	Detent Pin, ½" x 2½" Grip
5	G10008	4	Hex Head Cap Screw, ⅝"-11 x 2"
	G10230	4	Lock Washer, ⅝"
	G11391	4	Flat Washer, ⅝" SAE
	G10104	4	Hex Nut, ⅝"-11
6	GD0752-41	-	Sleeve, 1" (If Applicable)
7	GA6859	1	Mount, L.H.
8	GD15386	1	Pin, 1¼" x 7⅝"
	G10460	1	Cotter Pin, ¼" x 2"
9	GD0652	1	Pin, 1¼" x 9½"
	G10460	2	Cotter Pin, ¼" x 2"
10	GD5875	1	Hose Clamp, ⅞" x 2½" x 2"
11	G10003	1	Hex Head Cap Screw, ⅜"-16 x 1½"
	G10108	1	Lock Nut, ⅜"-16
12	GA6858	-	Mount, R.H.
13	GA6585	1	Arm W/Grease Fittings, First Stage, L.H. (Shown)
	GA6586	-	Arm W/Grease Fittings, First Stage, R.H.
	G10641	-	Grease Fitting, ⅛" NPT
14	GD2161	1	Pin, 1¼" x 8¼"
	G10159	1	Washer, 1⅞"
	G10460	2	Cotter Pin, ¼" x 2"
15	GD3214	1	Pin, 1¼" x 12¼"
	G10460	2	Cotter Pin, ¼" x 2"
16	GD2721	2	U-Bolt, 2" x 2" x ½"-13
	G10228	4	Lock Washer, ½"
	G10102	4	Hex Nut, ½"-13
17	GD0453-02	1	Extension Tube, 40"
	GD0453-06	-	Extension Tube, 30" (Used With Interplant Package Option)
	GD0453-05	-	Extension Tube, 55" (L.H. Side Only With Even-Row Push Row Unit)
18	GD13457	1	Extension Plate (If Applicable)
19	G10005	2	Hex Head Cap Screw, ⅝"-11 x 1¾"
	G10230	2	Lock Washer, ⅝"
	G10104	2	Hex Nut, ⅝"-11
20	GD21142	-	Marker Pin, 1¼" x 1⅜"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10460	-	Cotter Pin, ¼" x 2"
21	GA13762	1	Arm, First Stage
22	GD21143	-	Marker Pin, 1¼" x 9½"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10463	-	Cotter Pin, ¼" x 1½"

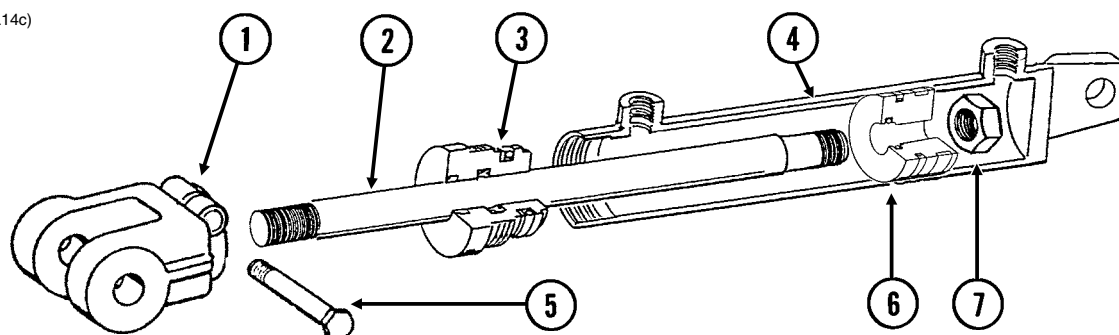
ITEM	PART NO.	QTY. (Per Marker)	DESCRIPTION
1	G11396	2	Flat Washer, 1¼" SAE
2	GD2161	1	Pin, 1¼" x 8¼"
	G10159	-	Washer, 1⅞"
	G10460	2	Cotter Pin, ¼" x 2"
3	GD3214	1	Pin, 1¼" x 12¼"
	G10460	2	Cotter Pin, ¼" x 2"
4	GA5188	1	Arm, Second Stage
5	GD2721	1	U-Bolt, 2" x 2" x ½"-13
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
6	GD0453-03	1	Extension Tube, 50"
	GD0453-08	-	Extension Tube, 65" (L.H. Side Only With Even-Row Push Row Unit)
7	GA6585	1	Arm W/Grease Fittings, First Stage, L.H. (Shown)
	GA6586	-	Arm W/Grease Fittings, First Stage, R.H.
	G10641	-	Grease Fitting, ⅛" NPT
8	GA5526	1	Safety Lockup W/Detent Pins (Sub GA8170)
	G10536	-	Detent Pin, ½" x 2½" Grip
9	---	-	See "Row Marker Cylinder" on page P95
10	G10008	4	Hex Head Cap Screw, ⅝"-11 x 2"
	G10230	4	Lock Washer, ⅝"
	G11391	4	Flat Washer, ⅝" SAE
	G10104	4	Hex Nut, ⅝"-11
11	GD0752-41	-	Sleeve, 1" (If Applicable)
12	GD15386	1	Pin, 1¼" x 7⅝"
	G10460	1	Cotter Pin, ¼" x 2"
13	GD5875	1	Hose Clamp, ⅞" x 2½" x 2"
14	G10003	1	Hex Head Cap Screw, ⅜"-16 x 1½"
	G10229	1	Lock Washer, ⅜"
	G10101	1	Hex Nut, ⅜"-16
15	GD0652	1	Pin, 1¼" x 9½"
	G10460	2	Cotter Pin, ¼" x 2"
16	GA6859	1	Mount, L.H.
17	GA6858	-	Mount, R.H.
18	GD21142	-	Marker Pin, 1¼" x 1⅜"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10460	-	Cotter Pin, ¼" x 2"
19	GA13762	1	Arm, First Stage
20	GD21143	-	Pin W/Grease Fitting, 1¼" x 9½"
	G10159	-	Washer, 1⅞"
	G11400	-	Retaining Ring, 1¼"
	G10640	-	Grease Fitting, ¼"-28
	G10463	-	Cotter Pin, ¼" x 1½"

IP1035aa



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

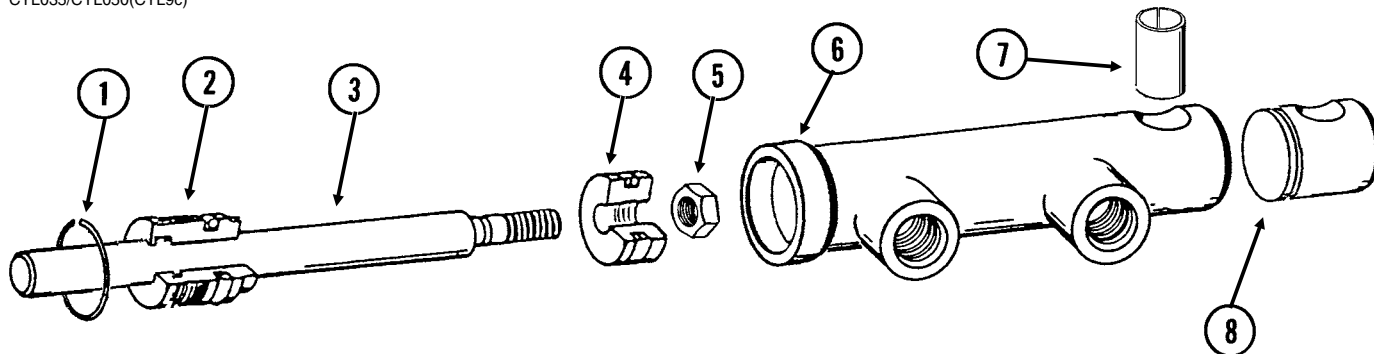
CYL032(CYL14c)



ITEM	PART NO.	QTY. (Per Cylinder)	DESCRIPTION
1	GD11950	1	Clevis
2	GD12501	1	Rod
3	GD11999	1	Gland
4	A6524	1	Barrel (Non-Stock Item)
5	G10939	1	Hex Head Cap Screw, $\frac{3}{8}$ "-16 x 2 $\frac{1}{4}$ "
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
6	GD12502	1	Piston
7	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
A	GA8911	-	Cylinder Complete, 3" x 16" (Part Number Stamped On Barrel)
B	GR1526	-	Seal Kit, Includes: (1) Wear Ring, (1) T-Seal, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Wiper

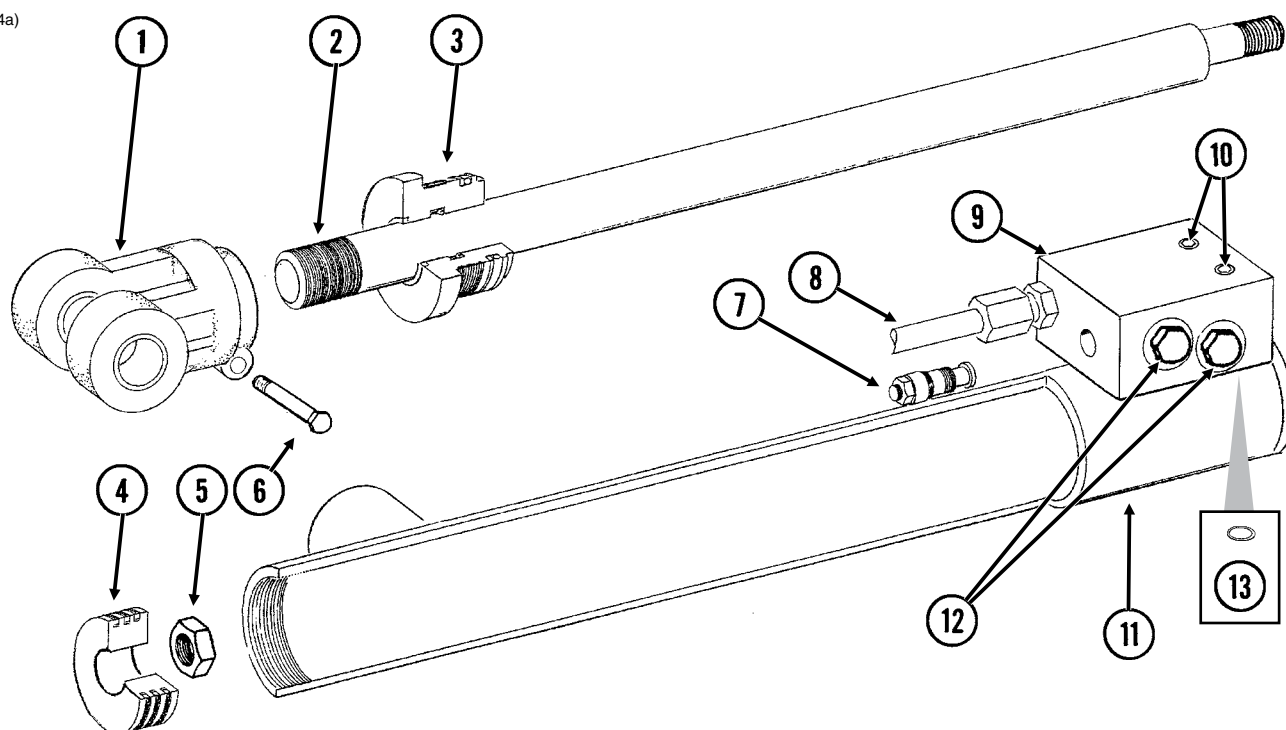
Transport Latch Cylinder, All Sizes

CYL035/CYL050(CYL9c)

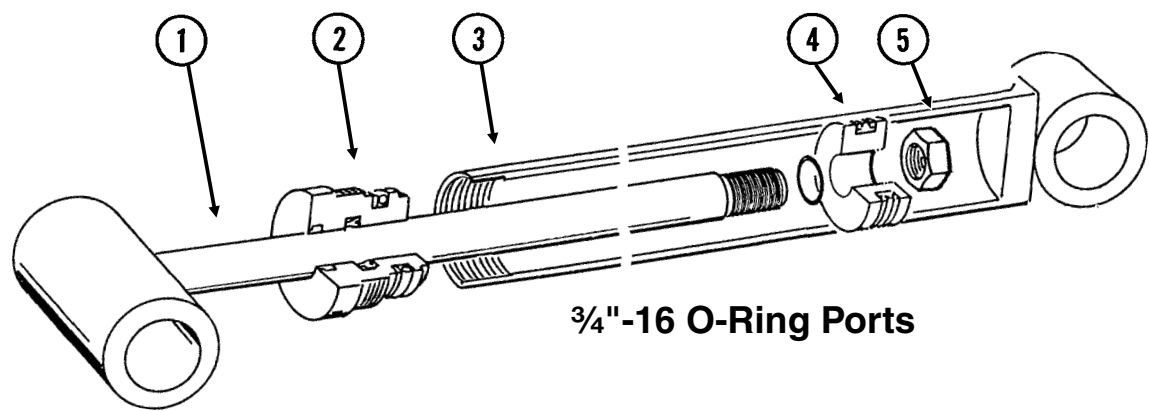


ITEM	PART NO.	QTY.	DESCRIPTION
1	G10770	1	Internal Retaining Ring, 1 $\frac{11}{16}$ "
2	GD13170	1	Gland
3	GD13425	1	Rod
4	GD13172	1	Piston
5	GD27232	1	Nylon Lock Nut, $\frac{1}{2}$ "-20, Grade 8
6	D13426	1	Barrel (Non-Stock Item)
7	GD13400	1	Tension Bushing, 1" x 2" Long
8	GD13173	1	End Cap
A	GA9559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

(CYL54a)



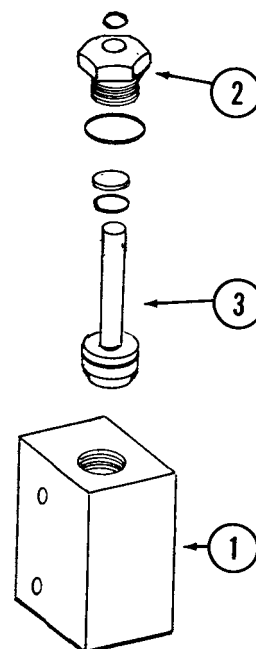
ITEM	PART NO.	QTY. (Per Cylinder)	DESCRIPTION
1	GD11950	1	Clevis
2	GD11957	1	Rod
3	GD12518	1	Gland
4	GD11253	1	Piston
5	GD27235	1	Nylon Lock Nut, 1"-14, Grade 8
6	G10939	1	Hex Head Cap Screw, 3/8"-16 x 2 1/4"
	G10108	1	Lock Nut, 3/8"-16
7	GA8882	1	Counter Balance Valve
	GR1517	-	Seal Kit For Counter Balance Valve, Includes: (3) O-Rings, (3) BU Rings
8	GA8888	1	Steel Hydraulic Line, 43 1/16"
9	GD11579	1	Block
10	G10932	2	Hex Socket Head Cap Screw, 5/16"-18 x 2", Grade 8
11	GA8884	1	Barrel
12	G6408-08	2	Plug W/O-Ring, 3/4"-16 O-Ring
	GR1037	-	O-Ring
13	GD12239	1	O-Ring, No. 016
A	GA8885	-	Cylinder Complete, 3" x 48" (Part Number Stamped On Barrel)
B	GR1520	-	Seal Kit (For Cylinder And Counter Balance Valve), Includes: (1) Wiper, (1) U-Cup, (6) O-Rings, (4) BU Rings, (1) Seal, (1) Seal Expander, (2) Cast Iron Rings



ITEM	PART NO.	QTY. (Per Cylinder)	DESCRIPTION
1	GA9440	1	Rod Assembly
2	GD12510	1	Gland
3	A9442	1	Barrel (Non-Stock Item)
4	GD12511	1	Piston
5	GD27233	1	Nylon Lock Nut, 3/4"-16, Grade 8
A	GA9443	-	Cylinder Complete, 2" x 20 ¹ / ₁₆ " <i>(Part Number Stamped On Barrel)</i>
B	GR1529	-	Seal Kit, Includes: (1) T-Seal, (2) O-Rings, (1) BU Ring, (1) U-Cup, (1) Wiper

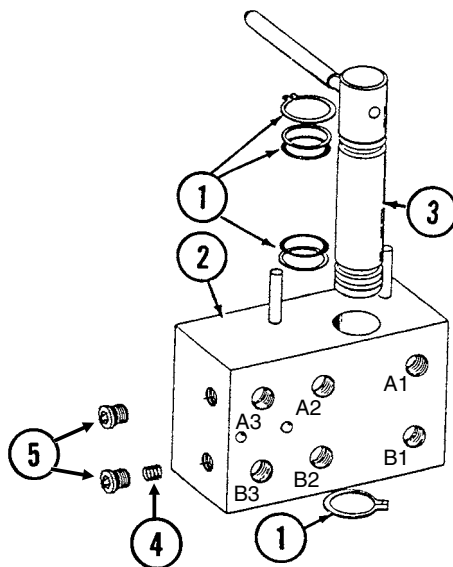
VVB027rev(TWL55)

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



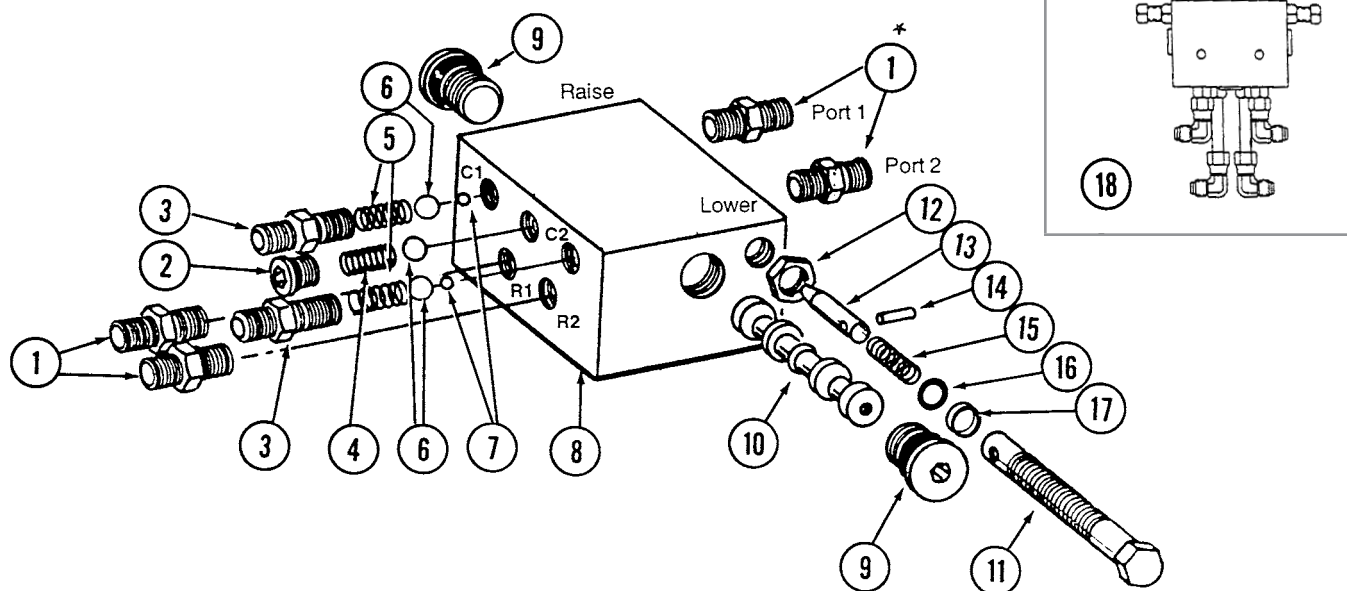
Selector Valve

VVB028(EF8a)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1096	1	Seal Kit, Includes: (2) Retaining Rings, (2) O-Rings, (2) BU Rings
2	---	1	Block (Non-Stock Item)
3	GR1177	1	Spool W/Handle
4	GR1178	1	Restrictor
5	G6408-H06-O	2	Hex Socket Plug W/O-Ring
A	GA6438	-	Valve Assembly

VVB025(PT9a/TWL56)

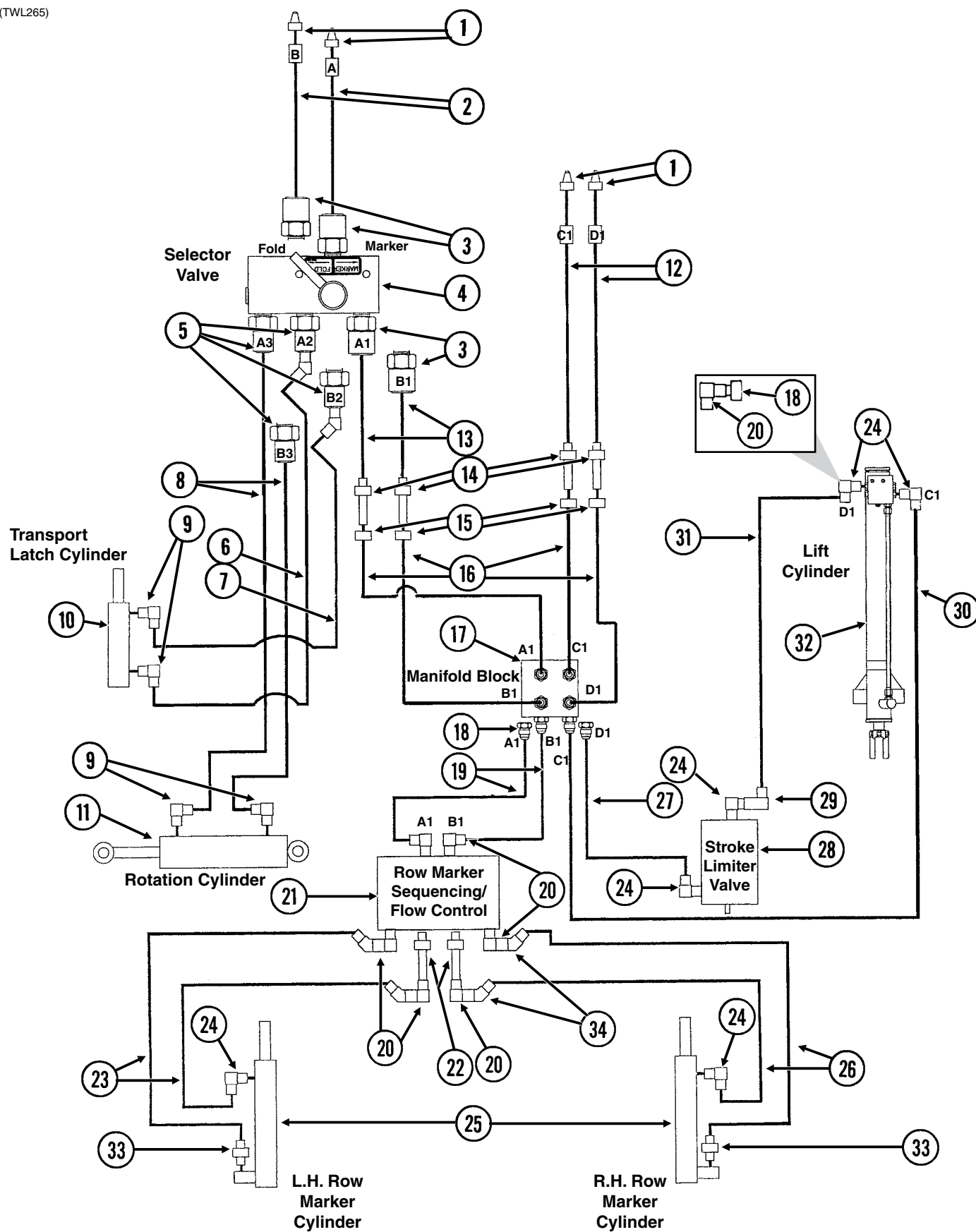


ITEM	PART NO.	QTY.	DESCRIPTION
1	*G6400-06 GR1045	4 -	Connector W/O-Ring, $\frac{1}{16}$ "-18 Male JIC To O-Ring O-Ring
2	GR1034 GR1035	2 -	Hex Socket Plug W/O-Ring O-Ring
3	GR1032 GR1045	2 -	Port Adapter W/O-Ring O-Ring
4	GR1033	1	Detent Spring
5	GR1036	2	Spring
6	GR1044	3	$\frac{7}{16}$ " Check Ball
7	GR1043	2	$\frac{1}{4}$ " Steel Ball
8	---	1	Valve Body (Non-Stock Item)
9	GR1047 GR1037	2 -	Hex Socket Plug W/O-Ring O-Ring
10	---	-	Spool (Non-Stock Item)
11	GR1042	2	Adjustment Screw
12	GR1048	2	Hex Jam Nut, $\frac{1}{2}$ "-20
13	GR1038	2	Needle
14	GR1039	2	Spring Pin
15	GR1046	2	Compression Spring
16	GR1040	2	O-Ring
17	GR1041	2	Teflon BU Ring
18	---	-	See "Planter Hydraulic System" on page P99
A	GA5552	-	Valve Assembly Complete (Items 1-17)
B	GA5572	-	Flow Control Portion Only (Items 11-17)

*Not used.

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(TWL265)



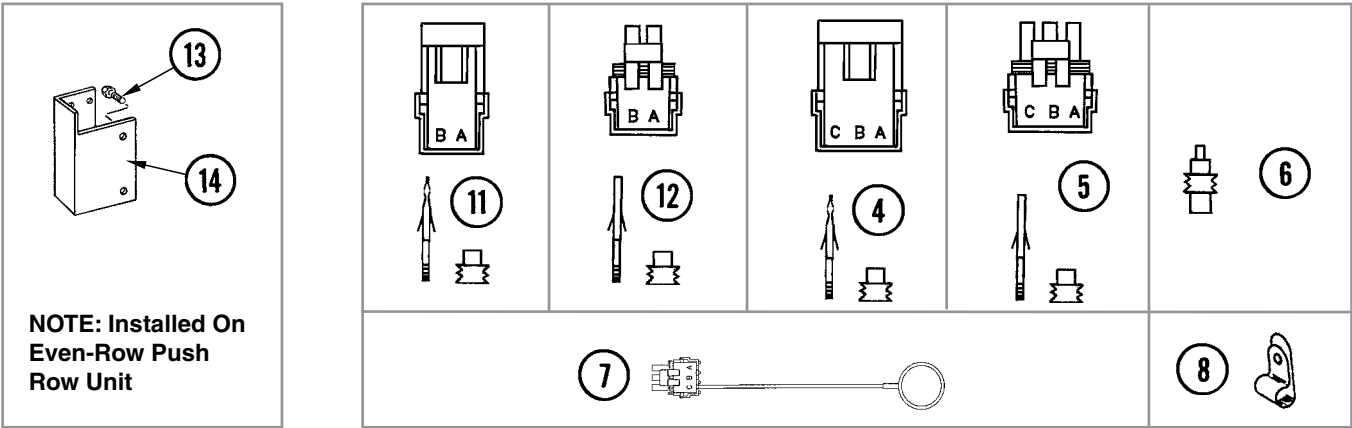
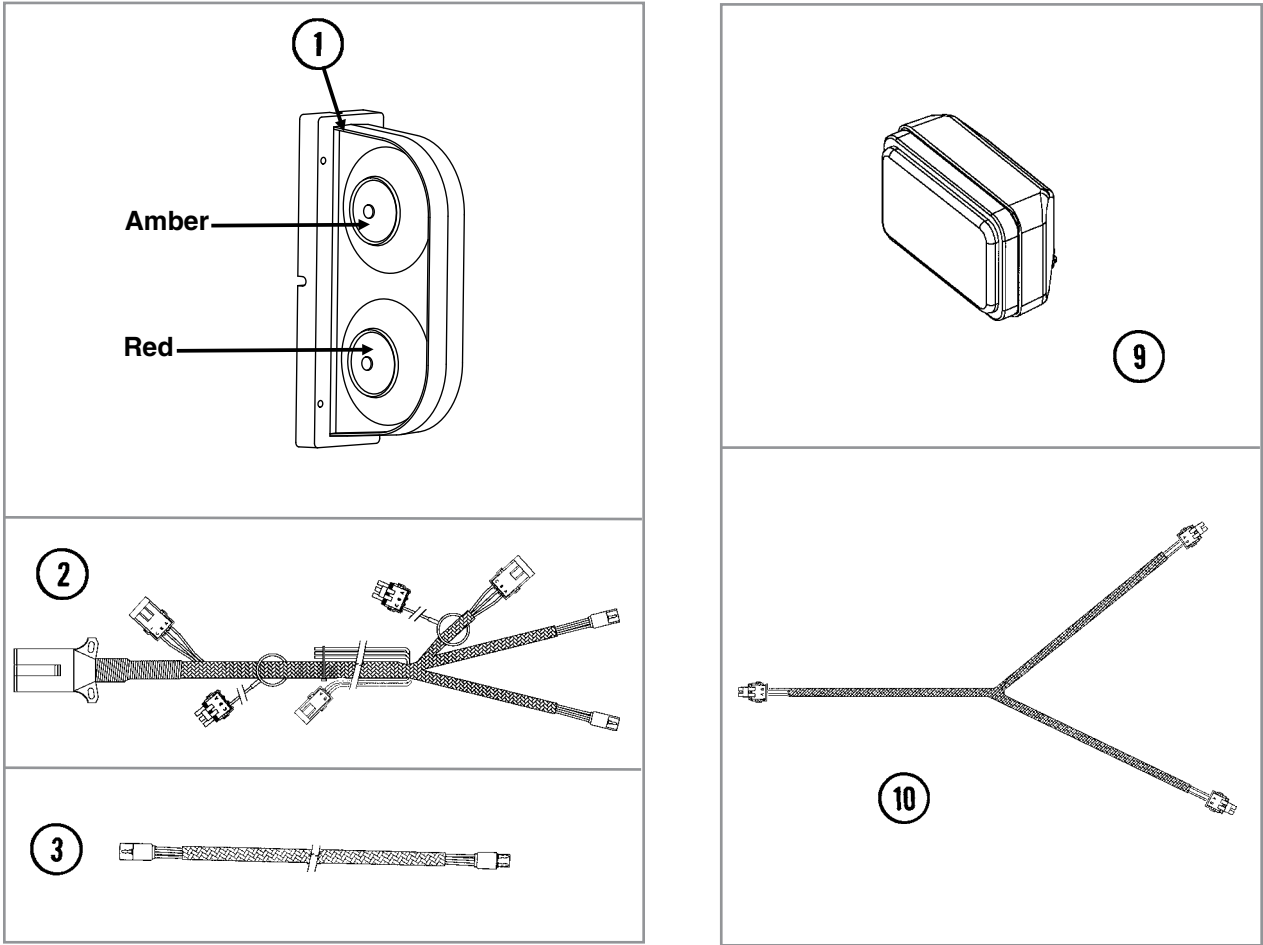
ITEM	PART NO.	QTY.	DESCRIPTION
1	GD4086	4	ISO Coupler
2	*A15008	2	Hose Assembly, 3/8" x 114"
3	G6400-08-06 GR1045	4 -	Connector W/O-Ring, 3/4"-16 Male JIC To 9/16"-18 O-Ring O-Ring
4	---	-	See "Selector Valve" on page P96
5	G6400-06 GR1045	4 -	Connector W/O-Ring, 9/16"-18 Male JIC To O-Ring O-Ring
6	*A1153 *A1194	1 -	Hose Assembly, 1/4" x 56", 6 Row 30" Hose Assembly, 1/4" x 30", 8 Row 30"
7	*A1141 *A1195	1 -	Hose Assembly, 1/4" x 62", 6 Row 30" Hose Assembly, 1/4" x 34", 8 Row 30"
8	*A1109	2	Hose Assembly, 1/4" x 145"
9	G6801-06-08 GR1037	4 -	Elbow W/O-Ring, 90°, 9/16"-18 Male JIC To 3/4"-16 O-Ring O-Ring
10	---	-	See "Transport Latch Cylinder, All Sizes" on page P93
11	---	-	See "Rotation Cylinder" on page P93
12	*A15007	2	Hose Assembly, 3/8" x 272"
13	*A1026	2	Hose Assembly, 3/8" x 152"
14	G2700-08	4	Bulkhead Tube Union, 3/4"-16 Male JIC
15	G306-08	4	Lock Nut, 3/4"-16
16	*A1021	4	Hose Assembly, 3/8" x 56"
17	---	-	See "Frame Assembly" on page P71
18	G6400-08 GR1037	8 -	Connector W/O-Ring, 3/4"-16 Male JIC To O-Ring O-Ring
19	*A1002	2	Hose Assembly, 3/8" x 20"
20	G6500-08-06	6	Swivel Elbow, 90°, 3/4"-16 Male JIC To 9/16"-18 Female
21	---	-	See "Row Marker Sequencing/Flow Control Valve" on page P97
22	G6400-L-06 GR1045	2 -	Long Connector W/O-Ring, 9/16"-18 Male JIC To O-Ring O-Ring
23	*A3115 *A1078	2 -	Hose Assembly, 3/8" x 146", 6 Row 30" Hose Assembly, 3/8" x 174", 8 Row 30"
24	G6801-08 GR1037	6 -	Elbow W/O-Ring, 90°, 3/4"-16 Male JIC To O-Ring O-Ring
25	---	-	See "Row Marker Cylinder" on page P95
26	*A1041 *A1090	2 -	Hose Assembly, 3/8" x 130", 6 Row 30" Hose Assembly, 3/8" x 162", 8 Row 30"
27	*A1076	1	Hose Assembly, 3/8" x 30"
28	---	-	See "Stroke Limiter Valve" on page P96 and See "Frame Assembly" on page P71
29	G6500-08	1	Swivel Elbow, 90°, 3/4"-16 Male JIC To Female
30	*A1055	3	Hose Assembly, 3/8" x 66"
31	*A1018	1	Hose Assembly, 3/8" x 40"
32	---	-	See "Lift Cylinder" on page P94
33	G6400-08 GR1037 G6400-08-04 GR1465	2 - 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
34	G6502-08	4	Swivel Elbow, 45°, 3/4"-16 Male JIC To Female

* Hydraulic hose is not stocked by Kinze Repair Parts, but can be made available on a special order basis. Call for quote.

(TWL23/A9152a/ELC38/MTR27i/MTR27a/ELC8/ELC39/A9689/A10924)

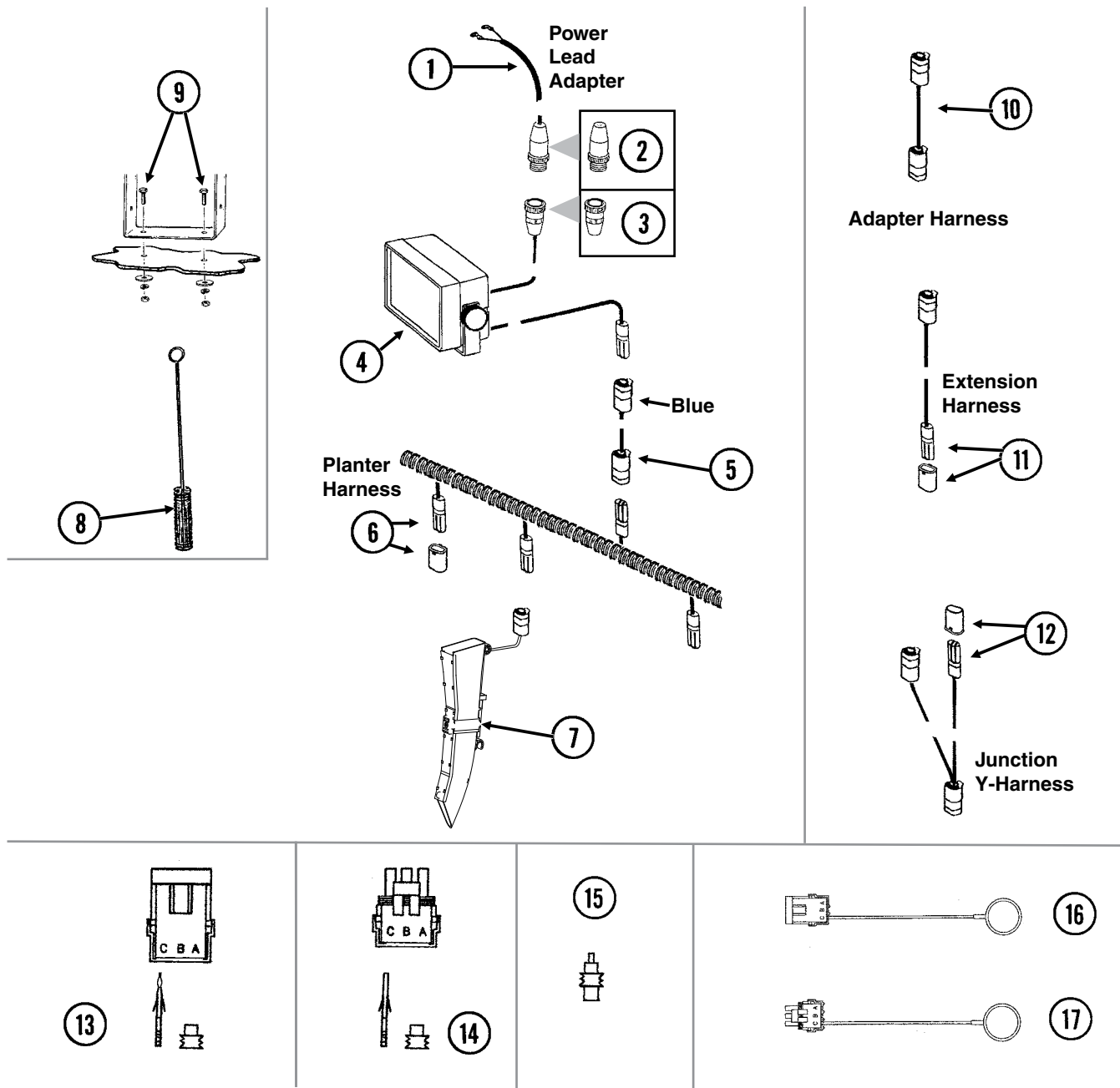
See “Digital Vacuum Gauge, Analog Vacuum Gauge, and Vacuum Fan Assembly” on page P53 for vacuum gauge electrical components.

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



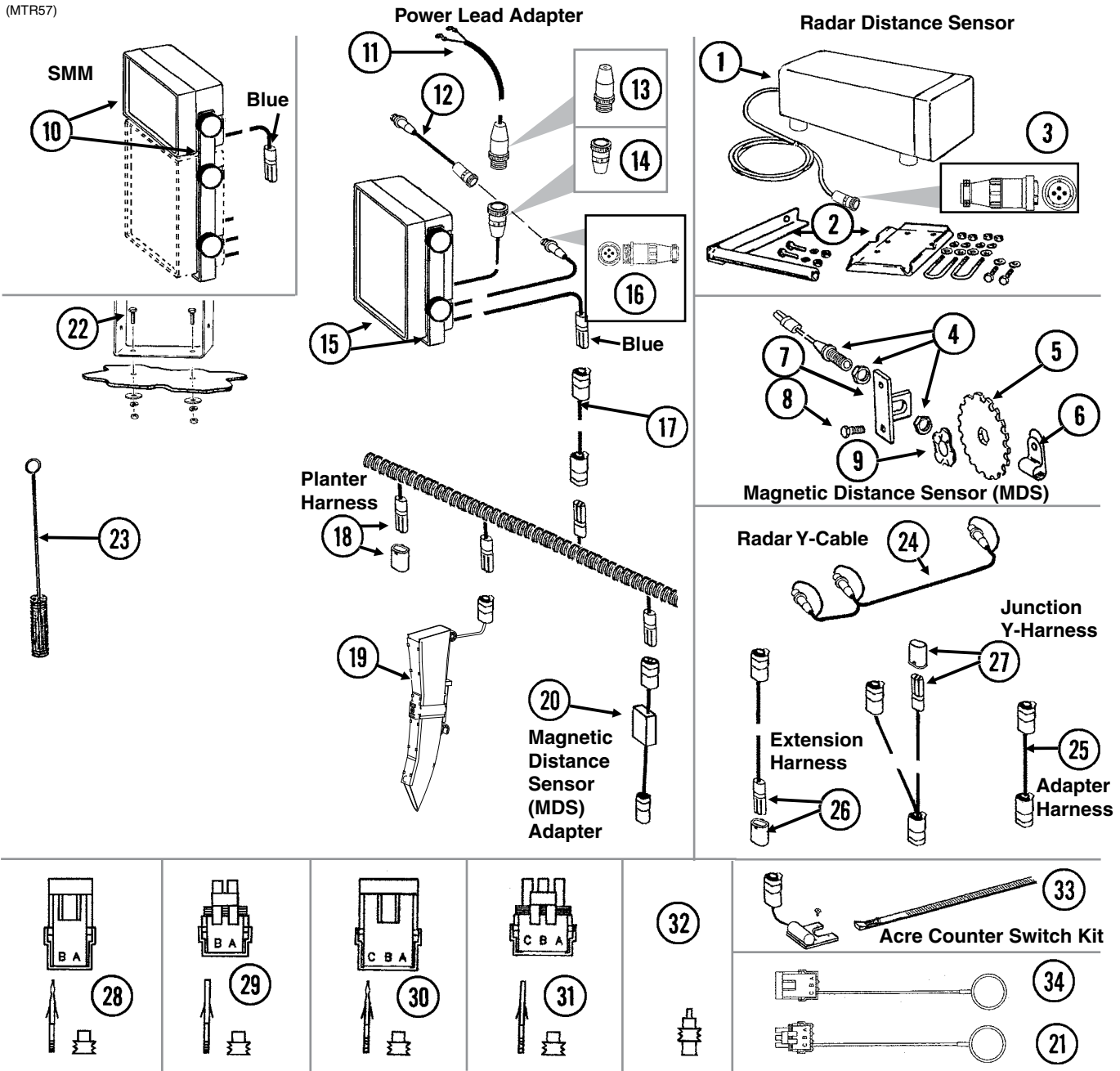
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA6699	1	Double Light Assembly
	GA6700	1	Double Light Assembly (Shown)
	GR1956	-	Amber Lens Kit, Includes: (1) Amber Lens, (1) Gasket, and (3) Hex Head Cap Screws
	GR1957	-	Red Lens Kit, Includes: (1) Red Lens, (1) Gasket, and (3) Hex Head Cap Screws
	GR1958	-	Black Cover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

(MTR46b/A11948)



ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7856	1	Power Lead Adapter
2	G1K267	-	Console Cable 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
	GR1392	-	Console Mounting Bracket Hardware Package (Includes 2 Knobs And ¼" Hardware)
	GA10601	-	Fuse Holder
	GD7639	-	Fuse
5	---	-	Included In Light Wiring Harness, See Item 2, page P101
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
7	GA19961	-	Seed Tube W/Computerized Sensor
	GA19960	-	Seed Tube (With Holes For Sensor Installation)
8	GR0594	-	Brush
9	G10022	2	Hex Head Cap Screw, ¼"-20 x ½"
	G11385	2	Flat Washer, ¼" SAE
	G10227	2	Lock Washer, ¼"
	G10103	2	Hex Nut, ¼"-20
10	GA7857	-	Adapter Harness, 1'
11	GA7854	-	Extension Harness W/Dust Cap, 15'
	GA7855	-	Extension Harness W/Dust Cap, 30'
	GD11993	-	Dust Cap
12	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap
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)

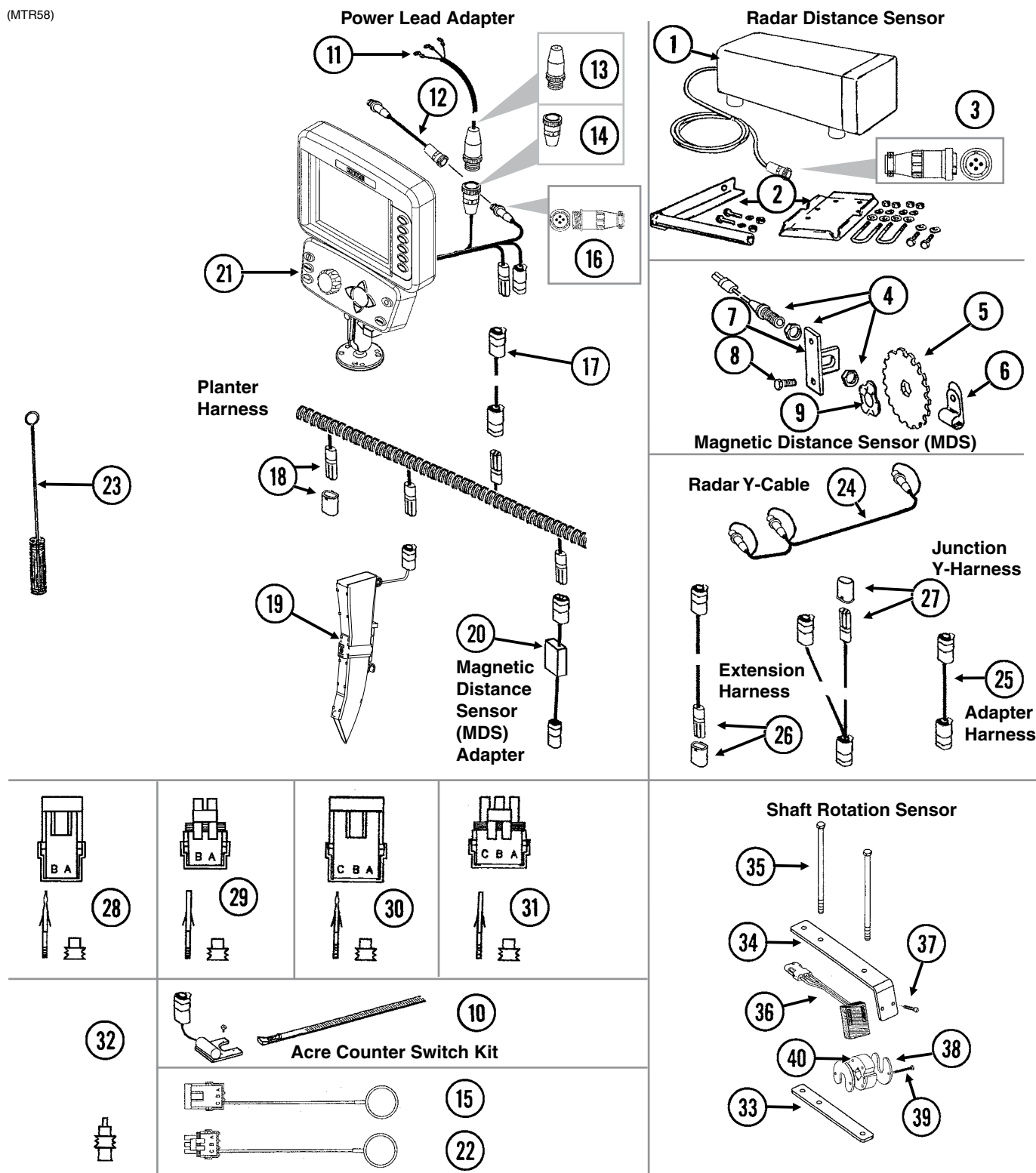
(MTR57)



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
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

ITEM	PART NO.	QTY.	DESCRIPTION
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
	GR1632	-	Console Mounting Bracket Hardware Package (Includes 2 Knobs And ¼" Hardware)
11	GA7856	1	Power Lead Adapter
12	GA9144	-	Monitor/Radar Adapter Cable, 10"
13	G1K267	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (3) Male Terminal Pins
14	G1K268	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (1) Lock Ring, (3) Female Terminal Pins
15	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
	GR1393	-	Console Mounting Bracket Hardware Package (Includes 4 Knobs And ¼" Hardware)
	GA10601	-	Fuse Holder
	GD7639	-	Fuse
16	G1K322	-	4-Pin Connector Kit W/Male Housing, Includes: (4) Female Socket Contacts And (1) Cable Clamp
17	---	-	Included In Light Wiring Harness, See Item 2, page P101
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
19	GA19961	-	Seed Tube W/Computerized Sensor
	GA19960	-	Seed Tube (With Holes For Sensor Installation)
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, ¼"-20 x ½"
	G11385	2	Flat Washer, ¼" SAE
	G10227	2	Lock Washer, ¼"
	G10103	2	Hex Nut, ¼"-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
27	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap
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)

(MTR58)



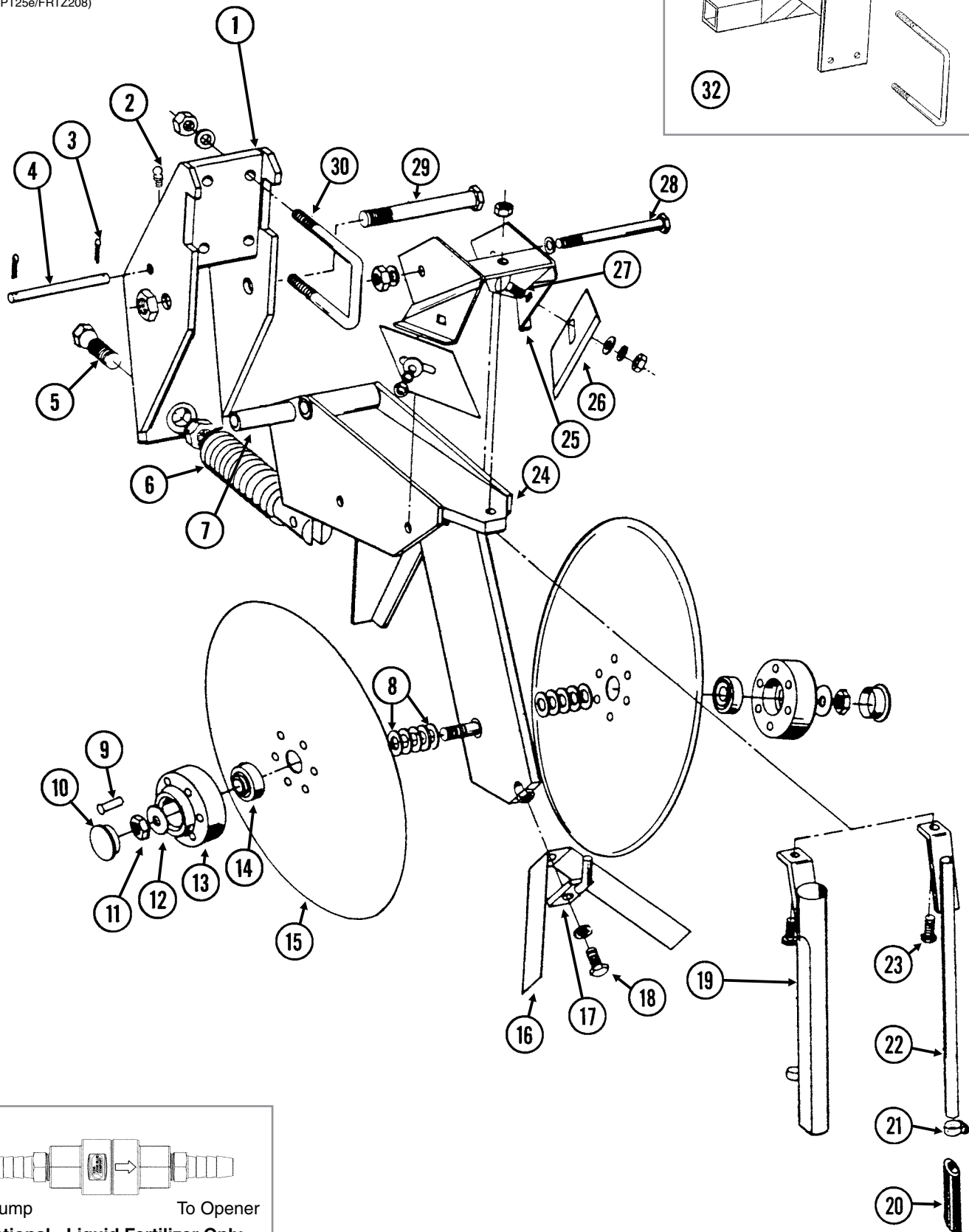
ITEM	PART NO.	QTY.	DESCRIPTION
1	GA7858	-	Radar Distance Sensor W/20' Cable
2	GA8026	-	Radar Sensor Pipe/Mounting Bracket Package
3	G1K323	-	4-Pin Connector Kit W/Female Housing, Includes: (4) Pins And (1) Cable Clamp
4	GA5600	1	Magnetic Distance Sensor
5	GD8751	-	Magnetic Distance Sensor Pulse Wheel
6	GD6291	-	Insulated Clamp, 3/8"
7	GD8770	1	Bracket
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	G1K249	-	Acre Counter Switch Kit
11	GA17547	1	Power Adapter Cable
12	GA9144	-	Monitor/Radar Adapter Cable, 10"
13	G1K267	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (3) Male Terminal Pins
14	G1K268	-	Console Cable Connector Kit, Includes: (1) Cable Clamp, (1) 3-Pin Connector, (1) Lock Ring, (3) Female Terminal Pins
15	GA8046	-	Dust Plug (Black)
	GA9978	-	Dust Plug (Blue)
16	G1K322	-	4-Pin Connector Kit W/Male Housing, Includes: (4) Female Socket Contacts And (1) Cable Clamp
17	---	-	Included In Light Wiring Harness, See Item 2, page P101
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
19	GA19961	-	Seed Tube W/Computerized Sensor
	GA19960	-	Seed Tube (With Holes For Sensor Installation)
20	GA7859	1	Magnetic Distance Sensor Adapter (Analog To Digital)
21	8647x	1	KPM III Backlit Console W/Brush (Item 23), Dust Plug (Item 22), 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) 1/4"-20 x 1 3/4" Hex Head Cap Screw, (1) 1/4" Plastic Washer, (1) 1/4" Steel Washer
	GR1762	-	Console Mounting Bracket Hardware Package, Includes: (3) No. 10-32 x 5/8" Hex Socket Pan Head Plated Screws, (3) 1/4" Plated Lock Washers
	GA16082	-	KPM III Console Power Harness
22	GA8047	-	Dust Plug (Black)
	GA9978	-	Dust Plug (Blue)
23	GR0594	-	Brush
24	GR0586	1	Radar Y-Cable (Used To Connect Radar Distance Sensor For Multiple Functions)
25	GA7857	-	Adapter Harness, 1'
26	GA7854	-	Extension Harness W/Dust Cap, 15'
	GA7855	-	Extension Harness W/Dust Cap, 30'
	GD11993	-	Dust Cap
27	GA7853	-	Junction Y-Harness W/Dust Cap
	GD11993	-	Dust Cap
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

Continued on the next page.

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

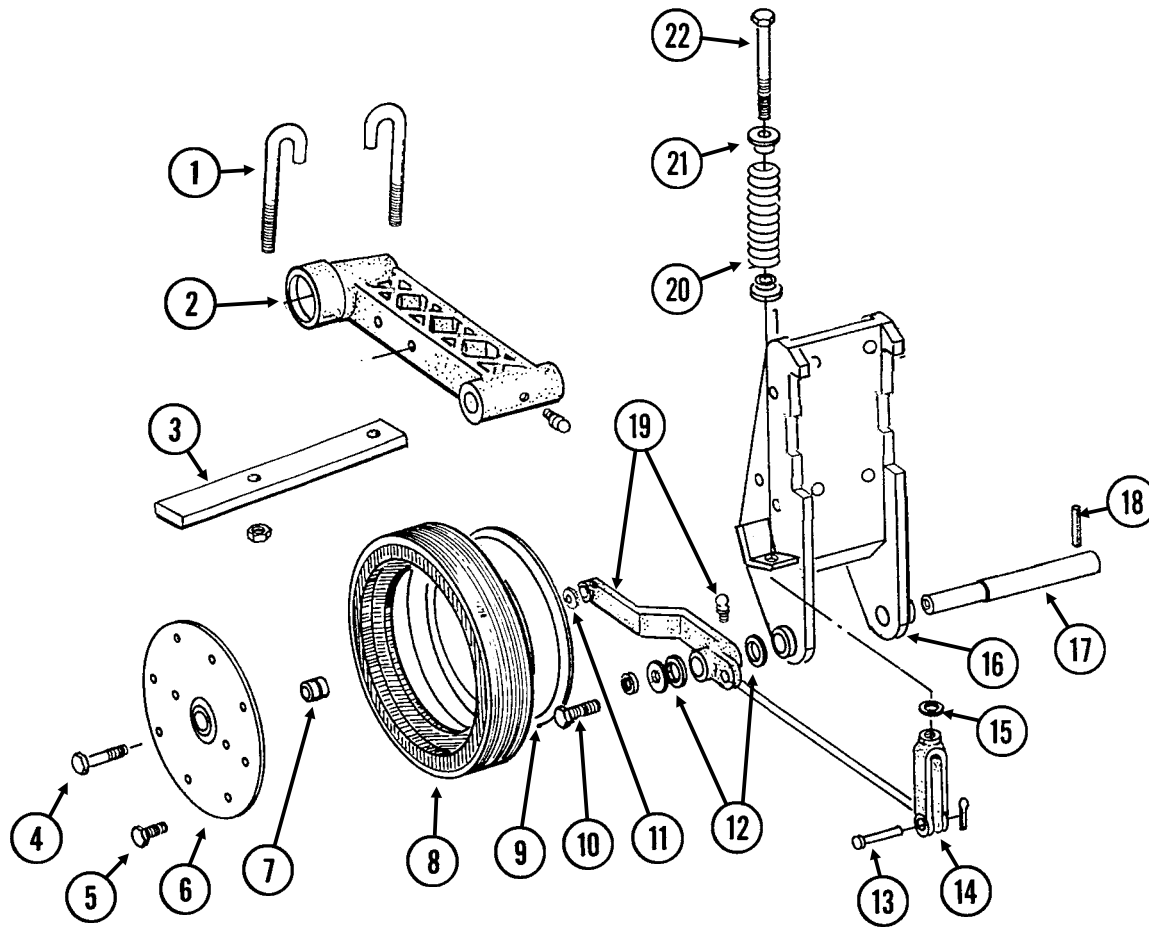
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FOC007(PT25e/FRTZ208)



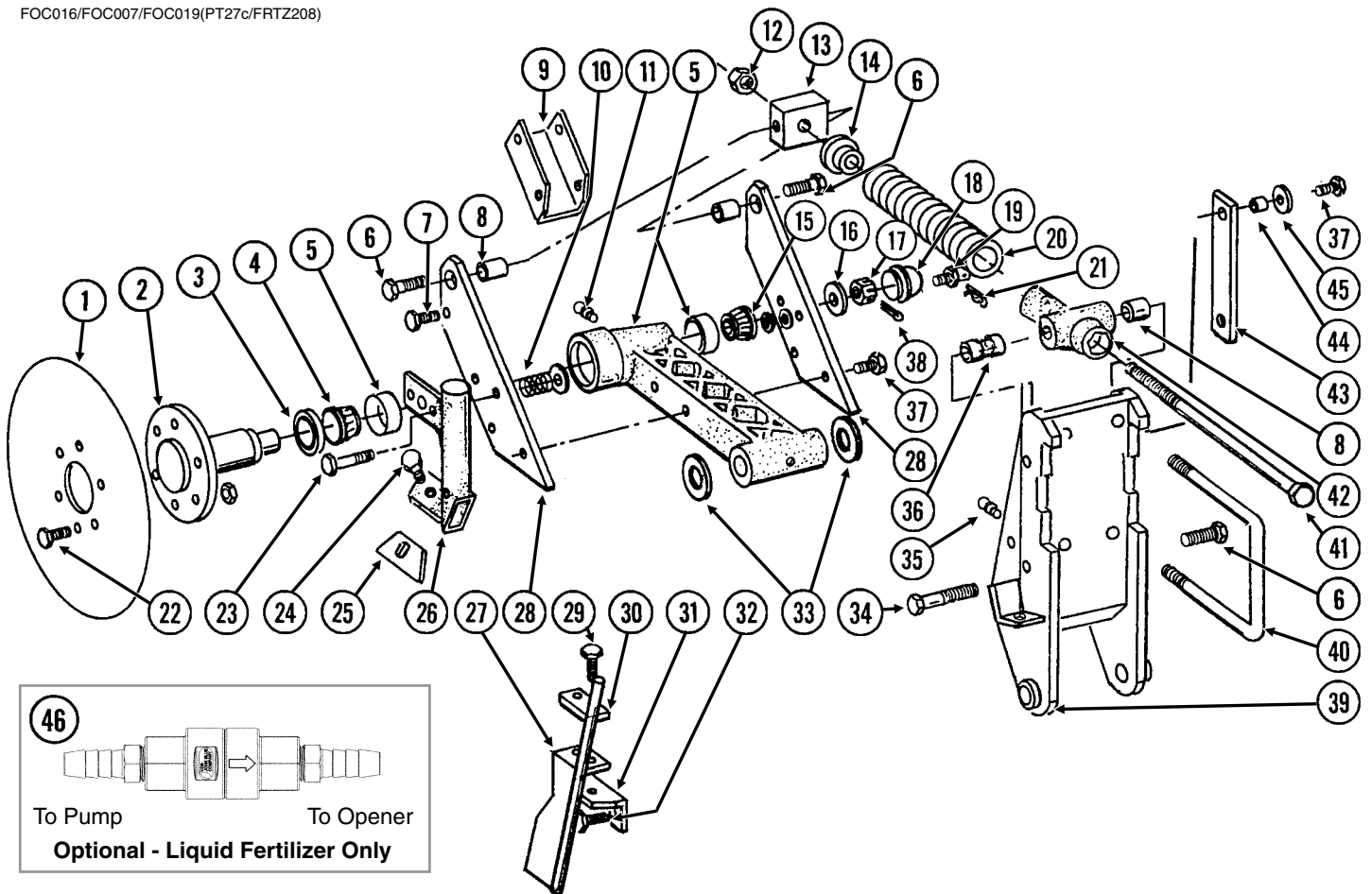
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GA8483	1	Bracket
2	G10938	1	Grease Fitting, 1/4"-28, Taper Threads
3	G10451	2	Cotter Pin, 1/8" x 1"
4	GD1657	1	Lockup Pin
5	GD0962	1	Hex Head Adjusting Bolt, 5/8"-18 x 3/4"
	G10499	1	Hex Jam Nut, 5/8"-18, Grade 2
6	GA0328	1	Spring
7	GD0487	1	Bushing, 41/64" I.D. x 3 1/2" Long
8	G10213	-	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. Threads, 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	-	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 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
31	GA15416	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb
32	GA7135	-	Mount W/U-Bolts (One Per Opener)
	GD1113	-	U-Bolt, 5" x 7" x 5/8"-11
	G10230	-	Lock Washer, 5/8"
	G10104	-	Hex Nut, 5/8"-11
A	GA8845	-	Disc Blade And Bearing Assembly (Items 9 And 13-15)

(TWL35d)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD9705	2	J-Bolt, 1/2"-13
	G10228	2	Lock Washer, 1/2"
	G10102	2	Hex Nut, 1/2"-13
2	---	-	See "HD Single Disc Fertilizer Opener (Blade and Drop Tube)" on page P116
3	GD9706	1	Lockup Bar
4	G10010	1	Hex Head Cap Screw, 5/8"-11 x 3"
5	G10961	11	Flanged Whiz Lock Screw, 5/16"-18 x 5/8", No Serration
	G10620	11	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	1	Hex Head Cap Screw, 1/2"-13 x 3/4"
	G10228	1	Lock Washer, 1/2"
	G11389	1	Flat Washer, 1/2" SAE
11	G10230	1	Lock Washer, 5/8"
12	G10526	10	Machine Bushing, 1" (.048" Thick)
13	G10560	1	Clevis Pin, 1/2" x 1 3/4"
	G10456	1	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 P116
17	GD7911	1	Pivot Pin
18	G10610	1	Spring Pin, 3/8" x 2"
19	GA8306	-	Wheel Arm W/Grease Fitting, R.H.
	GA8305	1	Wheel Arm W/Grease Fitting, L.H. (Shown)
	G10640	1	Grease Fitting, 1/4"-28
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)

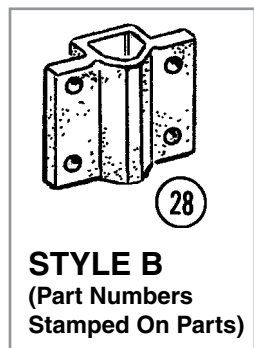
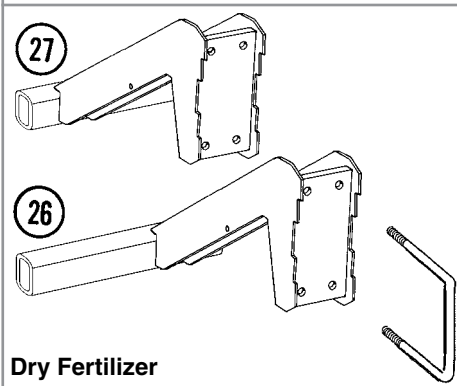
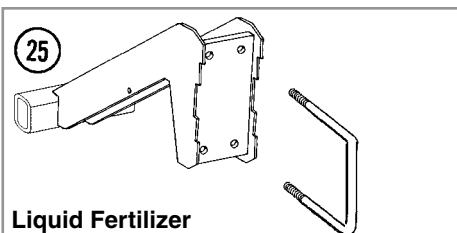
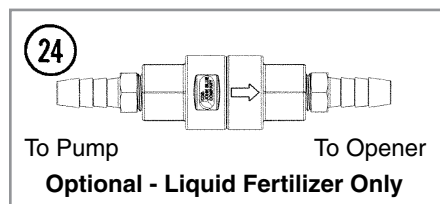


ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	GD7900	1	Disc Blade, 18"
	GD8247	-	Disc Blade, 20" (Optional)
2	GB0205	1	Spindle
3	GA4286	1	Seal
4	GA4287	1	Bearing
5	GA5887	1	Arm W/Cups And Washers
	GD6553	-	Inner Cup
	GR0188	-	Outer Cup
	G11391	3	Flat Washer, 5/8" SAE
6	G10007	3	Hex Head Cap Screw, 5/8"-11 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

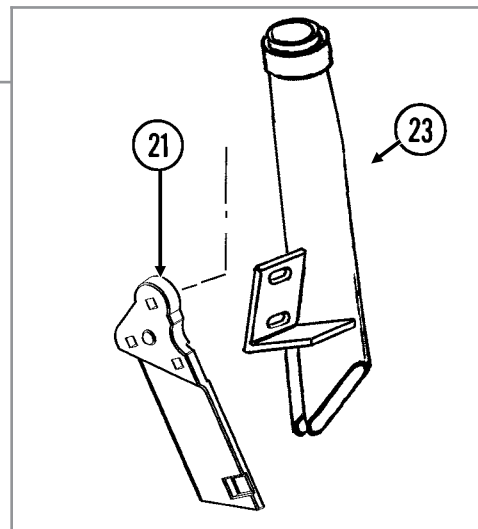
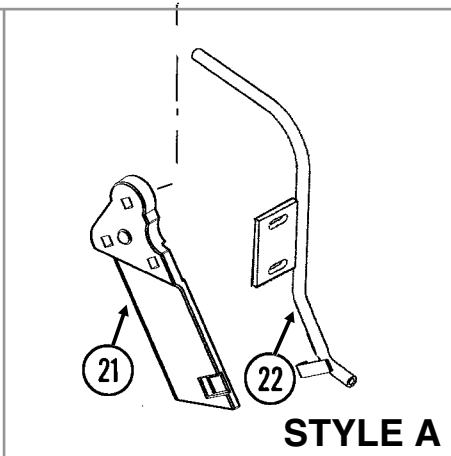
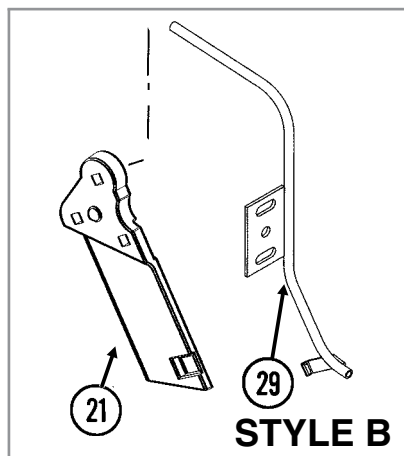
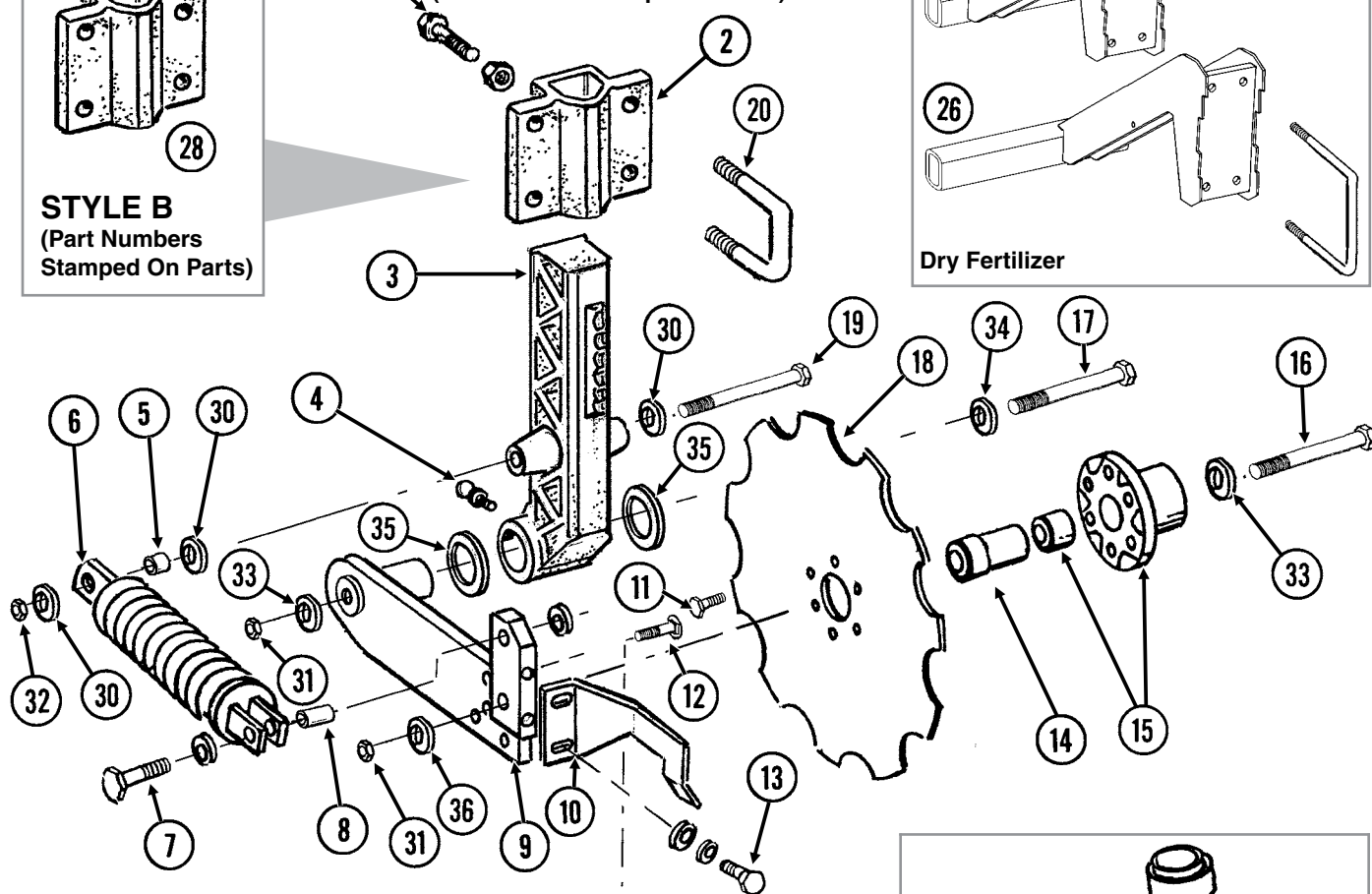
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
17	G10507	1	Slotted Nut, 1"-14
18	GD1104	1	Dust Cap
19	GD8276	1	Pin
	G10237	1	Lock Washer, 7/16"
	G10100	1	Hex Nut, 7/16"-14
20	GD10273	1	Compression Spring
21	G10592	1	Hair Pin Clip, No. 11
22	G10594	6	Bolt, 1/2"-13 x 1 1/2"
	G10111	6	Lock Nut, 1/2"-13
23	G10049	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	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	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	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb

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

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



1 **STYLE A**
(Part Number Stamped On Part)



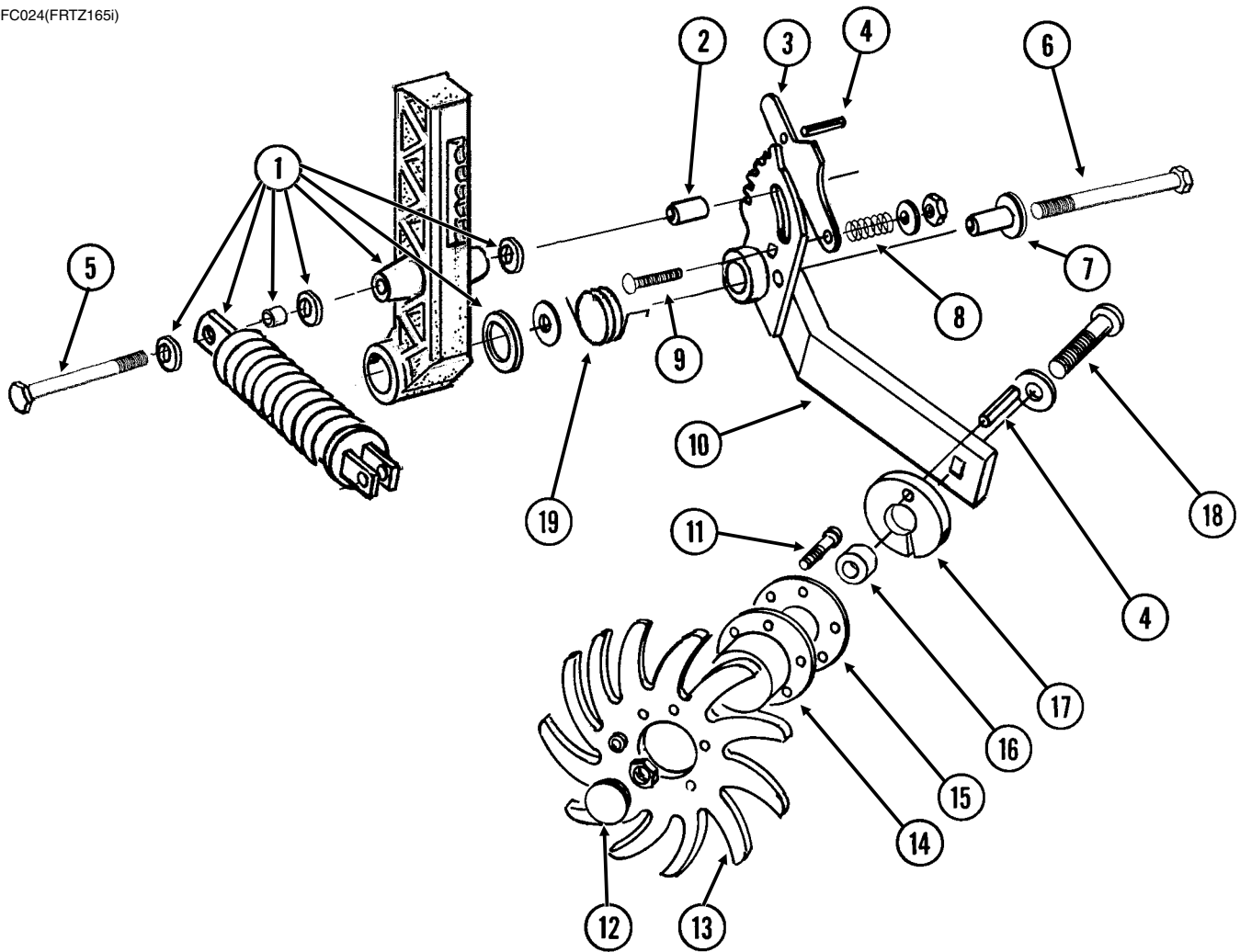
ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	G10017	3	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10102	3	Hex Nut, 1/2"-13
2	GB0297	1	Mount
3	GB0296	1	Arm, 13 1/2"
4	G10640	1	Grease Fitting, 1/4"-28
5	GD12685	1	Bushing, 3/4" O.D. x 1/2" Long
6	GA6966	1	Compression Spring Assembly
7	G10047	1	Hex Head Cap Screw, 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
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
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex 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	1	Check Valve Assembly
	GA15415	1	Check Valve
	G11436	2	Hose Barb, 1/4" Male NPT To 3/8" Barb
25	GA9565	1	Opener Mount Assembly, Liquid Fertilizer
	GA9564	1	Opener Mount
	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
26	GA9821	-	Opener Mount Assembly, L.H., Dry Fertilizer
	GA9819	1	Opener Mount
	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11

Continued on the next page.

ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
27	GA9822	-	Opener Mount Assembly, R.H., Dry Fertilizer
	GA9820	1	Opener Mount
	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
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)
36	GD12677	1	Washer, 1 1/2" O.D., 7 Gauge, Hardened

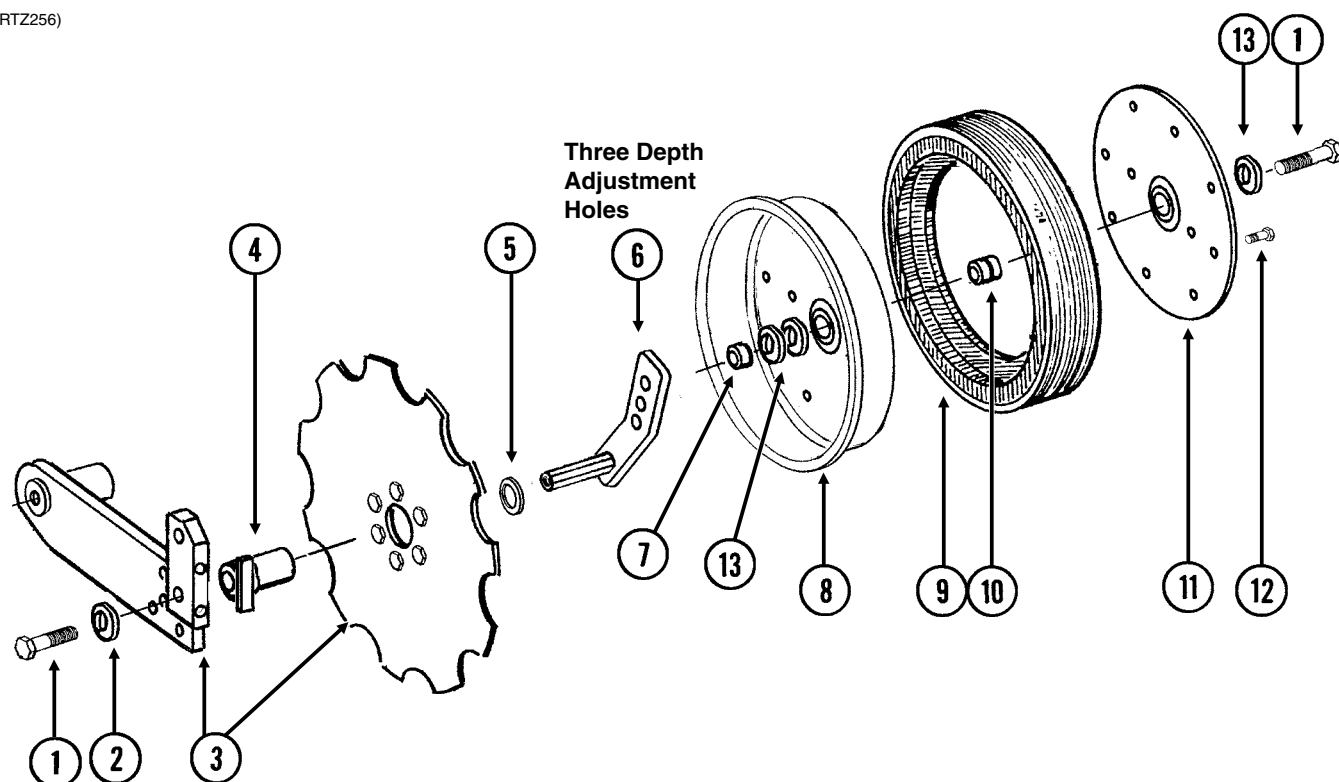
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DFC024(FRTZ165i)



ITEM	PART NO.	QTY. (Per Assy.)	DESCRIPTION
1	---	-	See "Notched Single Disc Fertilizer Opener" on page P117
2	GD12684	1	Bushing, 1 $\frac{1}{3}$ " Long
3	GD11178	1	Adjustment Lever
4	G10603	2	Spring Pin, $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "
5	G11034	1	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x 7"
	G10111	1	Lock Nut, $\frac{1}{2}$ "-13
6	G10830	1	Hex Head Cap Screw, $\frac{5}{8}$ "-11 x 7 $\frac{1}{2}$ "
	G11391	1	Flat Washer, $\frac{5}{8}$ " SAE
	G10107	1	Lock Nut, $\frac{5}{8}$ "-11
7	GD11836	1	Sleeve, 2 $\frac{1}{8}$ " Long
8	GD7962	1	Spring
9	G10306	1	Carriage Bolt, $\frac{3}{8}$ "-16 x 2"
	G11387	1	Flat Washer, $\frac{3}{8}$ " SAE
	G10108	1	Lock Nut, $\frac{3}{8}$ "-16
10	GA7999	1	Mount W/Grease Fitting, L.H. (Shown)
	GA7998	-	Mount W/Grease Fitting, R.H.
	G10640	-	Grease Fitting, $\frac{1}{4}$ "-28
11	G10133	6	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x 1 $\frac{1}{2}$ "
	G10109	6	Lock Nut, $\frac{5}{16}$ "-18, Grade 8
12	GD1132	2	Dust Cap
13	GD10552	2	Wheel, 12 Tine, $\frac{3}{8}$ " x 12"
14	GA5654	1	Hub W/Bearings
	GA2014	-	Bearing
15	GD9724	1	Backing Plate
16	GD7817-04	1	Spacer, $\frac{1}{16}$ " I.D. x $\frac{1}{2}$ " Long
17	GD11188	1	Spacer
18	G10908	1	Carriage Bolt, $\frac{5}{8}$ "-11 x 3"
	G10503	1	Hex Jam Nut, $\frac{5}{8}$ "-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)

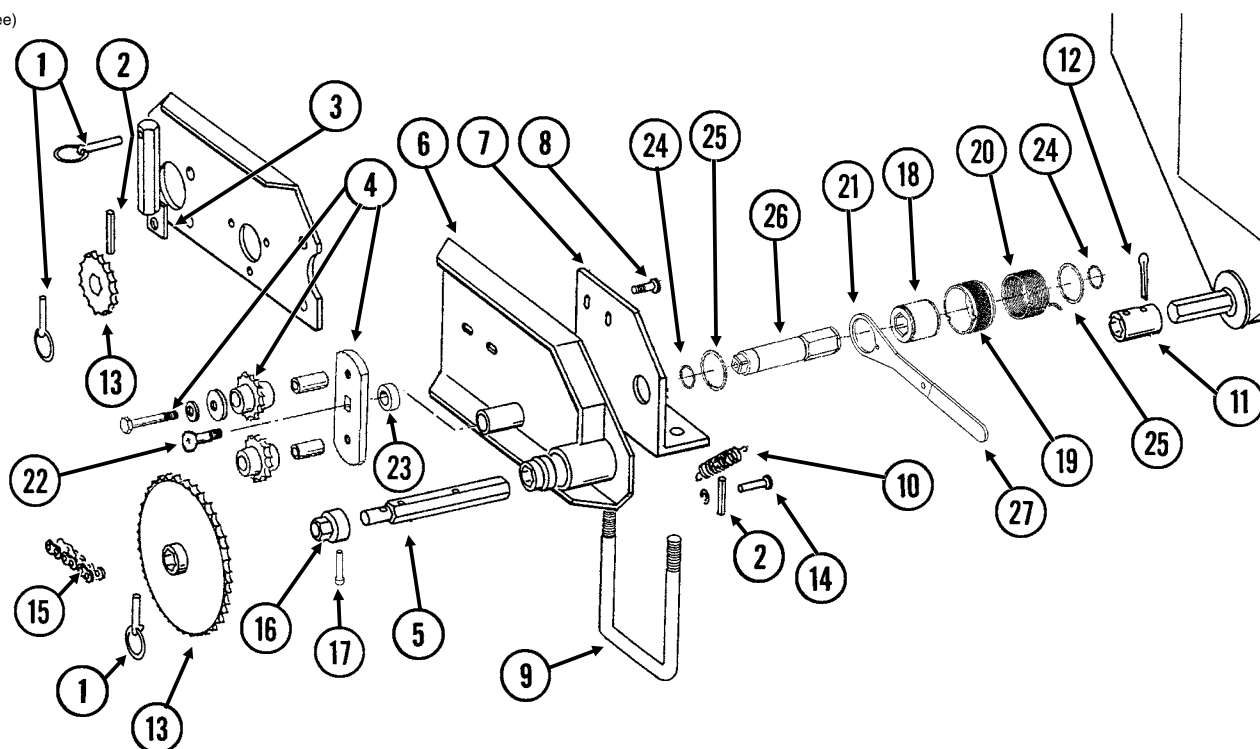
(FRTZ256)



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 P117
4	GA9472	1	Blade Mount
5	G10233	1	Machine Bushing, $1\frac{1}{2}$ " x $\frac{1}{32}$ ", 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)

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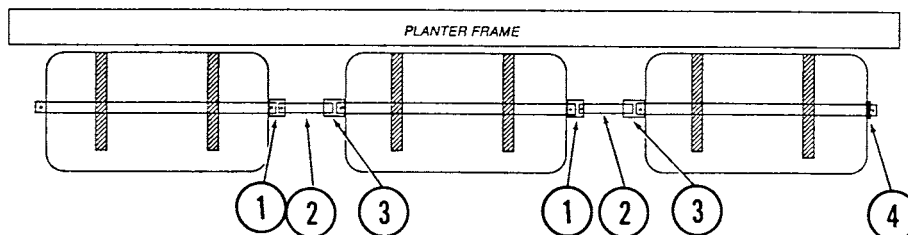
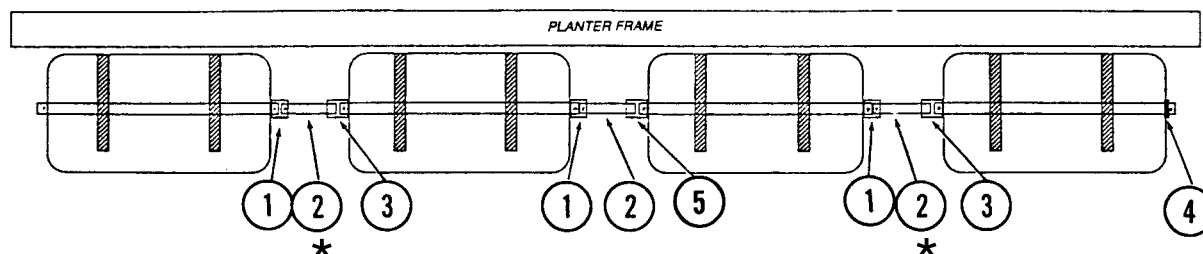
(TWL60ee)



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

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

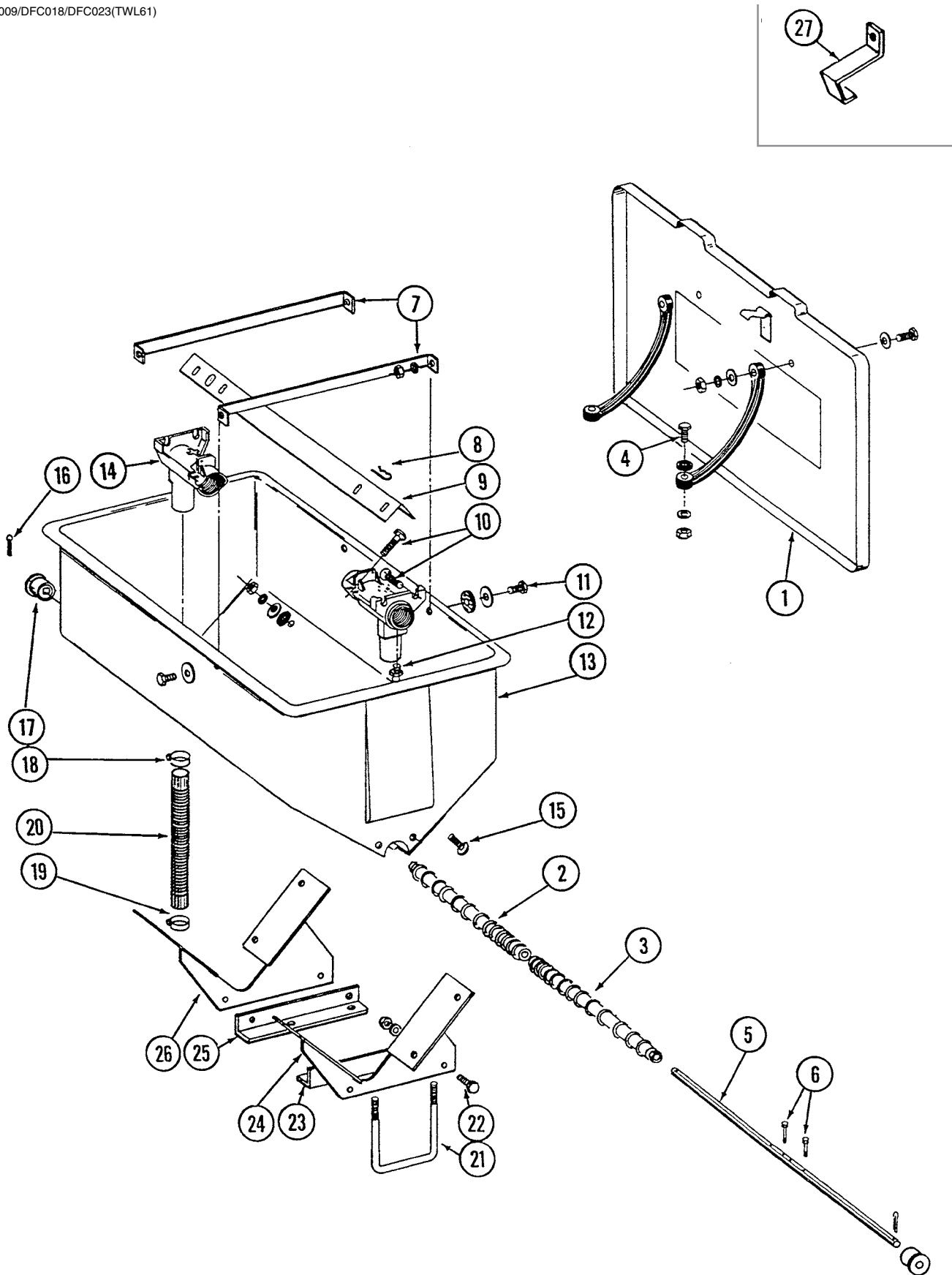
RH101190(PT33/PT35)

6 Row 30"**8 Row 30"**

ITEM	PART NO.	QTY.	DESCRIPTION
1	GD5886	-	Coupler, 1 $\frac{3}{4}$ "
2	GD2548-15.5	-	Hex Shaft, $\frac{7}{8}$ " x 15 $\frac{1}{2}$ " (1 Hole) (*Trim 4" On 8 Row 30" Size With HD Single Disc Fertilizer Openers)
3	GD7867	-	Coupler, 3"
4	G10233	2	Machine Bushing, 1 $\frac{1}{2}$ " x $\frac{1}{32}$ ", 10 Gauge
5	GD9378	-	Coupler, 12"

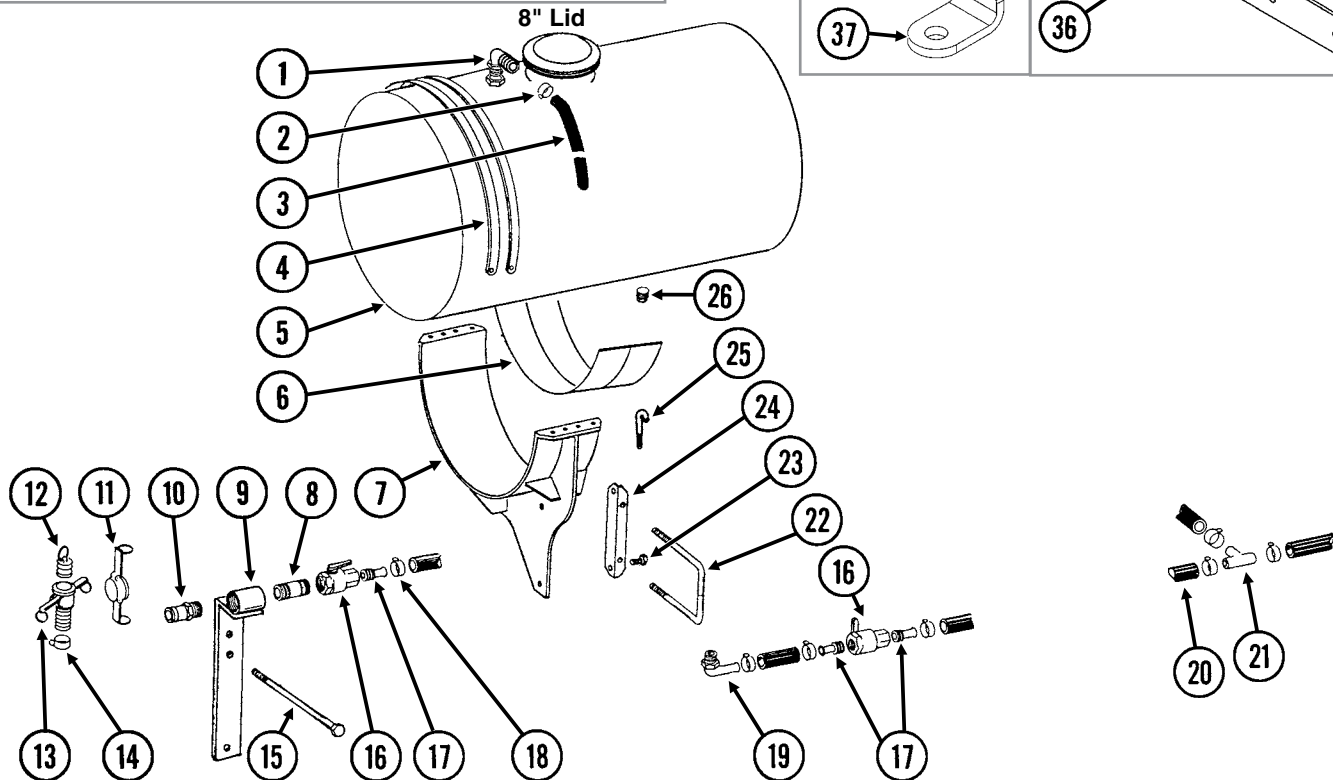
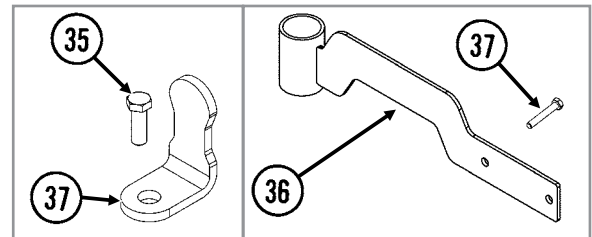
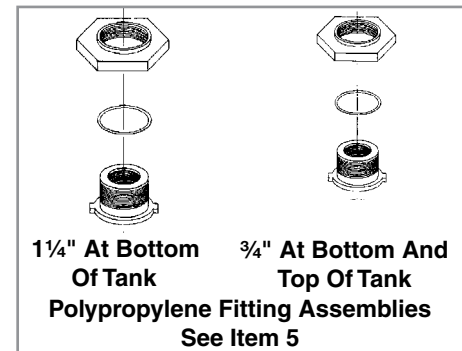
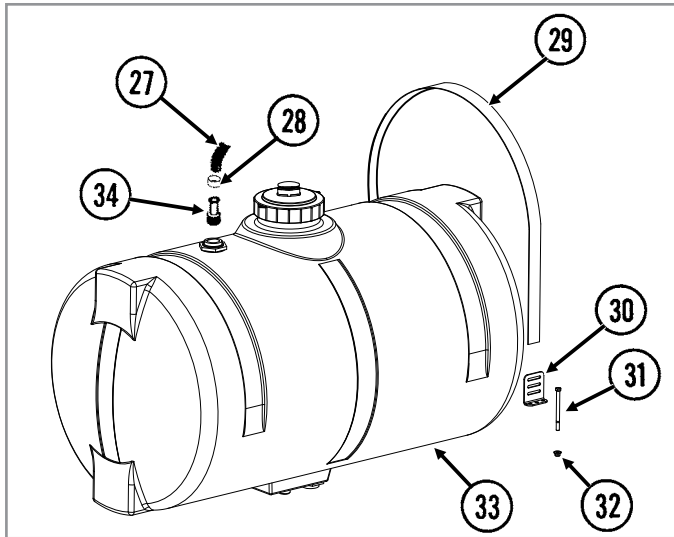
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DFC009/DFC018/DFC023(TWL61)



ITEM	PART NO.	QTY. (Per Hopper)	DESCRIPTION
1	GA0898	1	Lid W/Retainers, Clips, Rivets, Rubber Straps And Hardware
	GD1380	-	Front Clip
	GD2412	-	Rear Retainer
	G10655	-	Rivet, $\frac{3}{16}$ " x $1\frac{13}{32}$ "
	GD1210	-	Rubber Strap
	G10171	-	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $1\frac{1}{4}$ "
	G11386	-	Flat Washer, $\frac{5}{16}$ " SAE
	G10232	-	Lock Washer, $\frac{5}{16}$ "
	G10106	-	Hex Nut, $\frac{5}{16}$ "-18
2	GB0198	1	Auger, R.H.
3	GB0199	1	Auger, L.H.
4	G10133	2	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $1\frac{1}{2}$ "
	G11386	2	Flat Washer, $\frac{5}{16}$ " SAE
	G10232	2	Lock Washer, $\frac{5}{16}$ "
	G10106	2	Hex Nut, $\frac{5}{16}$ "-18
5	GD7848	1	Shaft
6	G10587	2	Hex Head Cap Screw, $\frac{1}{4}$ "-20 x 2", Stainless Steel
	G10588	2	Hex Nut, $\frac{1}{4}$ "-20, Stainless Steel
7	GD1209	2	Strap
8	G10670	2	Hair Pin Clip, No. 3
9	GD1207	1	Baffle
10	G10303	8	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G11386	8	Flat Washer, $\frac{5}{16}$ " SAE
	G10232	8	Lock Washer, $\frac{5}{16}$ "
	G10106	8	Hex Nut, $\frac{5}{16}$ "-18
11	G10171	4	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $1\frac{1}{4}$ "
	G10201	4	Special Washer, $\frac{3}{8}$ " x $1\frac{1}{2}$ " O.D.
	GD1213	4	Rubber Washer
	G10232	4	Lock Washer, $\frac{5}{16}$ "
	G10106	4	Hex Nut, $\frac{5}{16}$ "-18
12	G10641	2	Grease Fitting, $\frac{1}{8}$ " NPT
13	GD1379	1	Hopper
14	GD1200	2	Outlet Housing
15	G10303	8	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G10201	8	Special Washer, $\frac{3}{8}$ " x $1\frac{1}{2}$ " O.D.
	GD1213	8	Rubber Washer
	G10232	8	Lock Washer, $\frac{5}{16}$ "
	G10106	8	Hex Nut, $\frac{5}{16}$ "-18
16	G10460	2	Cotter Pin, $\frac{1}{4}$ " x 2"
17	GB0200	2	Bearing
18	G10676	2	Hose Clamp, No. 36, Stainless Steel
19	G10672	2	Hose Clamp, No. 28
20	GD21398	2	Rubber Tube
21	GD1134	2	U-Bolt, 7" x 5" x $\frac{5}{8}$ "-11
	G10230	4	Lock Washer, $\frac{5}{8}$ "
	G10104	4	Hex Nut, $\frac{5}{8}$ "-11
22	G10017	2	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x $1\frac{1}{2}$ "
	G10228	2	Lock Washer, $\frac{1}{2}$ "
	G10102	2	Hex Nut, $\frac{1}{2}$ "-13
23	GD9131	1	Angle, L.H.
24	GA6437	1	Mount, L.H.
25	GD9132	1	Angle, R.H.
26	GA6436	1	Mount, R.H.
27	GD8722	-	Holder, Rubber Tube (As Required)
A	GA6503	-	Hopper Sub-Assembly (Items 8,10 And 12-15)
B	GA5667	-	Hopper Hardware Box (Items 2-7, 9, 11, 16 And 17)

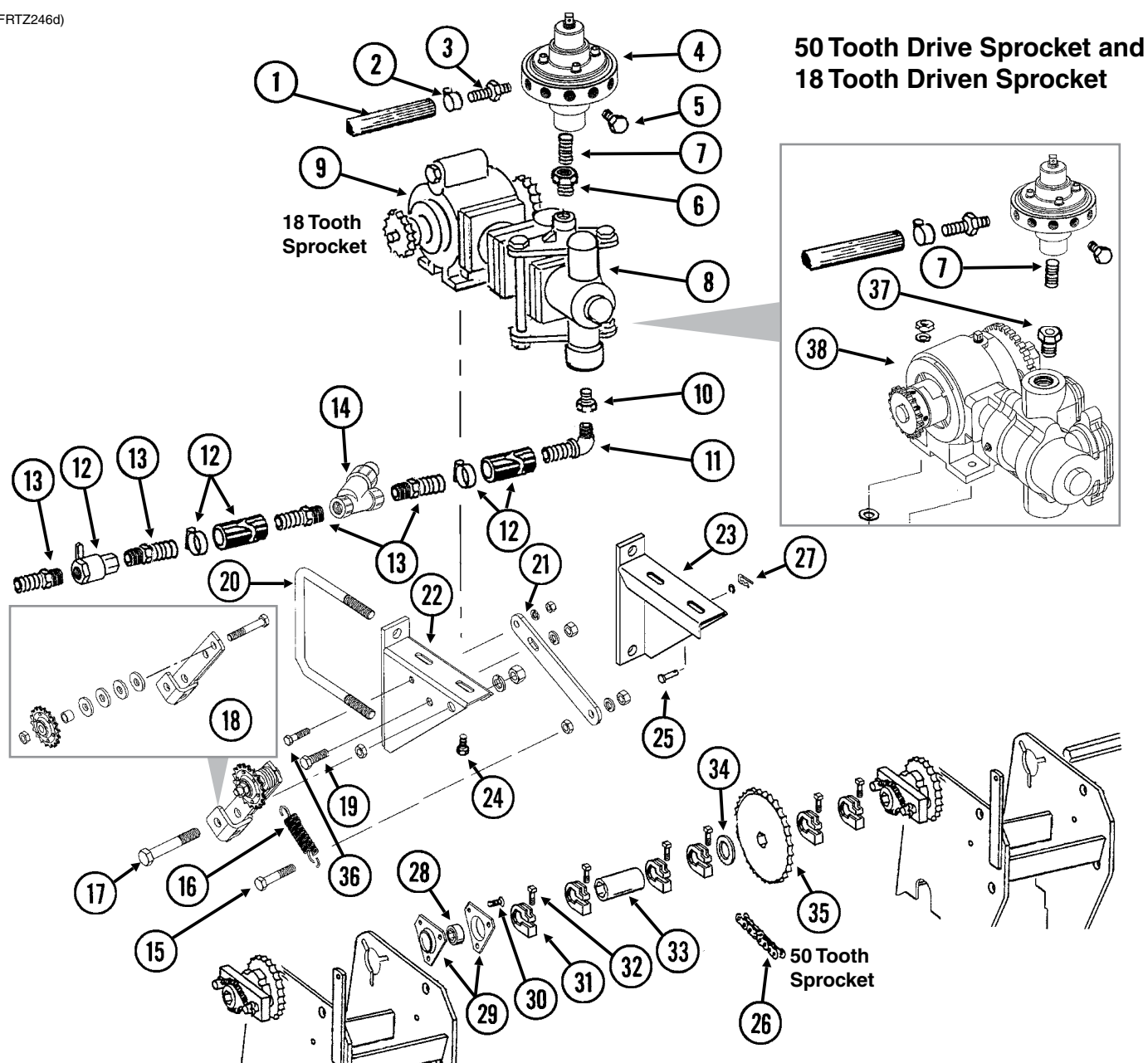
LFC012rev(FRTZ201e/PT51/TWL62C)



ITEM	PART NO.	QTY.	DESCRIPTION
1	G10917	2	Elbow, 90°, 3/4" NPT To Barb
2	G10278	2	Hose Clamp, No. 16
3	G4205-11	1	Hose, 3/4" x 72" (One Per Tank)
4	GD1520	8	Band, 30"
5	GA9905	-	Tank With Lid And Fittings, 30" x 150 Gallon
	GR1678	-	Lid W/Vent, 8" (Top Of Tank)
	GR0513	-	3/4" Polypropylene Fitting Assembly (Overflow Fitting, Nut, Bushing And O-Ring) (Top And Bottom Of Tank)
	GR1397	-	Overflow Fitting
	GR0508	-	1 1/4" Polypropylene Fitting Assembly (Nut, Bushing And O-Ring) (Bottom Of Tank)
6	GD1862	1	Pad, 8" x 14" (For Two 30" Tanks)

ITEM	PART NO.	QTY.	DESCRIPTION
7	GA7375	-	Tank Mount (2 Per Tank)
8	G10619	-	Close Nipple, 1¼" NPT
9	GA5917	1	Quick Fill Mount
10	GD1514	1	Adapter, 1¼" Male NPT To Cam Lock
11	GD1515	1	Dust Cap, 1¼" Cam Lock
12	GD1517	1	Dust Plug, 1¼" Male Cam Lock
13	GD1516	1	Adapter, 1¼" Barb To Female Cam Lock
14	G10672	1	Hose Clamp, No. 28
15	G10829	2	Hex Head Cap Screw, ½"-13 x 6½" (Used Between Light Assembly And Quick Fill Mount)
	G11389	2	Flat Washer, ½" SAE
	G10228	2	Lock Washer, ½"
	G10102	2	Hex Nut, ½"-13
16	GA4976	-	Shutoff Valve, 1¼" NPT
	GR1015	-	Body O-Ring
	GR1016	-	Stem O-Ring
	GR1017	-	Teflon Seat
	GR1018	-	Ball
	GR1019	-	Handle
17	G10626	-	Adapter, 1¼" NPT To Barb
18	G10674	-	Hose Clamp, No. 24
19	G10629	2	Elbow, 90°, 1¼" NPT To Barb
20	G4200-02	1	Hose, 1¼" x 27', 6 Row 30"
	G4200-03	-	Hose, 1¼" x 32', 8 Row 30"
21	G10633	1	Tee, 1¼" Barb
22	GD1747	4	U-Bolt, 5" x 7" x ¾"-10
	G10231	8	Lock Washer, ¾"
	G10105	8	Hex Nut, ¾"-10
23	G10007	-	Hex Head Cap Screw, ⅝"-11 x 1½"
	G10230	-	Lock Washer, ⅝"
	G10104	-	Hex Nut, ⅝"-11
24	GD10110	-	Mounting Angle (2 Per Tank)
25	GD1337	16	J-Bolt, ⅝"-18
	G11182	16	Lock Nut W/Nylon Insert, ⅝"-18, Grade 8
26	G10096	2	Pipe Plug, ¾" NPT
27	G4602-01	1	Black Helix Hose, 1¼" x 18'
28	G10674	4	Hose Clamp, No. 24
29	GD11124	4	Strap, 84"
30	GD11123	8	Anchor (Sub GA8114)
31	G10485	16	Hex Head Tap Bolt, ⅜"-16 x 5"
32	G10901	16	Lock Nut, ⅜"-16
33	GA14049	2	Tank W/Sealed Lid and Fittings, 150 Gallon
	GA16428	1	Lid, 7" W/Vacuum Breaker
	GA16157	1	Vacuum Breaker
	GR0513	-	¾" Polypropylene Fitting Assembly (Overflow Fitting, Nut, Bushing, and O-Ring) (Top and Bottom Of Tank)
	GR0508	-	1¼" Polypropylene Fitting Assembly (Nut, Bushing, and O-Ring) (Bottom Of Tank)
	GR1941	1	Lid Seal
34	G10626	-	Adapter, 1¼" NPT To Barb
35	GD20060	2	Hose Bracket
36	GA14112	2	Hose Guide
37	G10004	-	Hex Head Cap Screw, ⅜"-16 x 1¼"
	G11091	-	Serrated Flange Nut, ⅜"-16

(FRTZ246d)

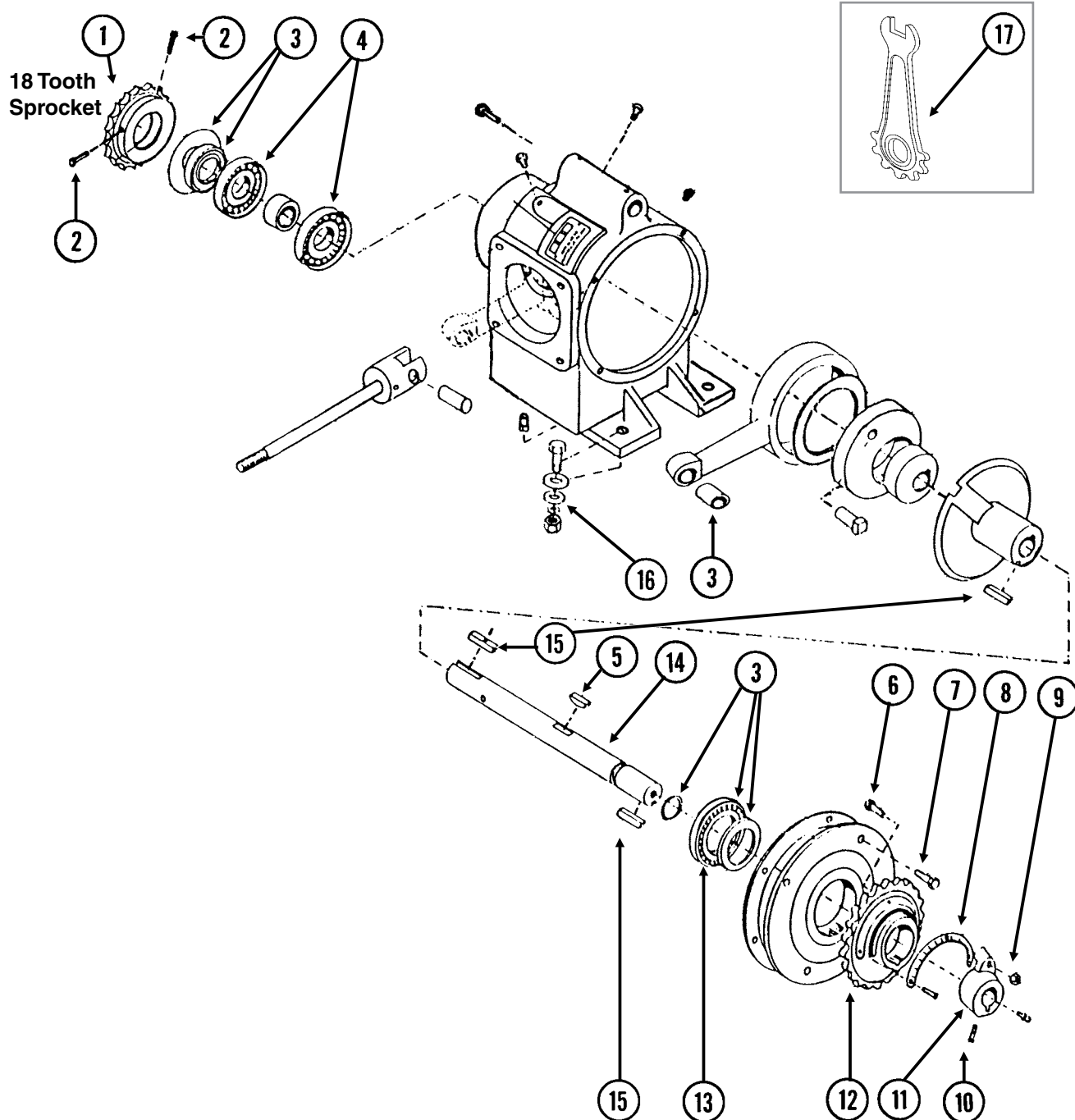


ITEM	PART NO.	QTY.	DESCRIPTION
1	G4301-02	-	Hose, 3/8" x 50', 6 Row 30"
	G4301-04	-	Hose, 3/8" x 100', 8 Row 30"
2	G10681	8	Hose Clamp, No. 6 (As Required)
3	GD11700	-	Adapter, 1/4" NPT To 3/8" Barb (As Required)
4	---	-	See "Liquid Fertilizer Piston Pump Flow Divider" on page P142
5	G10292	-	Pipe Plug, 1/4" NPT (As Required)
6	G10995	1	Reducing Bushing, 1" Male NPT To 3/4" Female, Stainless Steel
7	G10994	1	Close Nipple, 3/4" NPT, Stainless Steel
8	---	-	See "Liquid Fertilizer Piston Pump (Cylinder Assembly) Uses 18 Tooth Sprocket" on page P137
9	---	-	See "Liquid Fertilizer Piston Pump (Crankcase Assembly) Uses 18 Tooth Sprocket" on page P135
10	G10615	1	Reducing Bushing, 1 1/2" Male NPT To 1 1/4" Female
11	G10629	1	Elbow, 90°, 1 1/4" NPT To Barb

ITEM	PART NO.	QTY.	DESCRIPTION
12	---	-	See "Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings" on page P131
13	G10626	4	Adapter, 1 1/4" NPT To Barb
14	GA3893	1	Strainer Complete
	GR0880	-	Screen, No. 40 Mesh
	GR0881	-	Gasket
	GR0882	-	Y-Body
	GR0883	-	End Cap
15	G10053	1	Hex Head Cap Screw, 1/2"-13 x 2 1/2"
	G10228	1	Lock Washer, 1/2"
	G10501	1	Hex Jam Nut, 1/2"-13, Grade 2
	G10102	1	Hex Nut, 1/2"-13
16	GD5857	1	Spring
17	G10036	1	Hex Head Cap Screw, 5/8"-11 x 4"
	G10230	1	Lock Washer, 5/8"
	G10503	1	Hex Jam Nut, 5/8"-11, Grade 2
	G10104	1	Hex Nut, 5/8"-11
18	GA11024	1	Idler W/Sprocket And Hardware
	GA7154	1	Sprocket W/Bearing, 18 Tooth
	G10038	1	Hex Head Cap Screw, 1/2"-13 x 3"
	G10168	4	Machine Bushing, 1/2", 7 Gauge
	GD11158	1	Spacer, 3/4" O.D. x 9/16" Long
	G10501	1	Hex Jam Nut, 1/2"-13, Grade 2
19	G10017	1	Hex Head Cap Screw, 1/2"-13 x 1 1/2"
	G10228	1	Lock Washer, 1/2"
	G10102	1	Hex Nut, 1/2"-13
20	GD1113	2	U-Bolt, 5" x 7" x 5/8"-11
	G10230	4	Lock Washer, 5/8"
	G10104	4	Hex Nut, 5/8"-11
21	GD16157	1	Bracket
22	GA10603	1	Pump Mount, L.H.
23	GA4620	1	Pump Mount, R.H.
24	G10003	4	Hex Head Cap Screw, 3/8"-16 x 1 1/2"
	GR1122	4	Mounting Pad
	G11387	4	Flat Washer, 3/8" SAE
	G10229	4	Lock Washer, 3/8"
	G10101	4	Hex Nut, 3/8"-16
25	G10478	1	Clevis Pin, 5/16" x 1"
	G10409	1	Retaining Ring, 5/16"
26	G3310-88	1	Chain, No. 40, 88 Pitch Including Connector Link
	GR0912	-	Connector Link, No. 40
27	G10670	1	Hair Pin Clip, No. 3
28	G2100-03	1	Bearing, 7/8" Hex Bore, Spherical
29	G3400-01	2	Flangette
30	G10303	3	Carriage Bolt, 5/16"-18 x 1"
	G10620	3	Serrated Flange Nut, 5/16"-18
31	GD11045	5	Lock Clamp
32	G10130	5	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	5	Flange Nut, 5/16"-18, No Serration
33	GD1719	1	Coupler, 4"
34	G10233	1	Machine Bushing, 1 1/2" x 1/32", 10 Gauge
35	GA5194	1	Sprocket, 50 Tooth
36	G10003	1	Hex Head Cap Screw, 3/8"-16 x 1 1/2"
	G10229	1	Lock Washer, 3/8"
	G10101	1	Hex Nut, 3/8"-16
37	G11237	1	Reducing Bushing, 1 1/2" Male NPT To 3/4" Female
38	---	-	See "Liquid Fertilizer Piston Pump Uses 18 Tooth Sprocket" on page P139

JB-L4400-991/CCU077(FRTZ172a/GR1424)

Model LM-2455-R

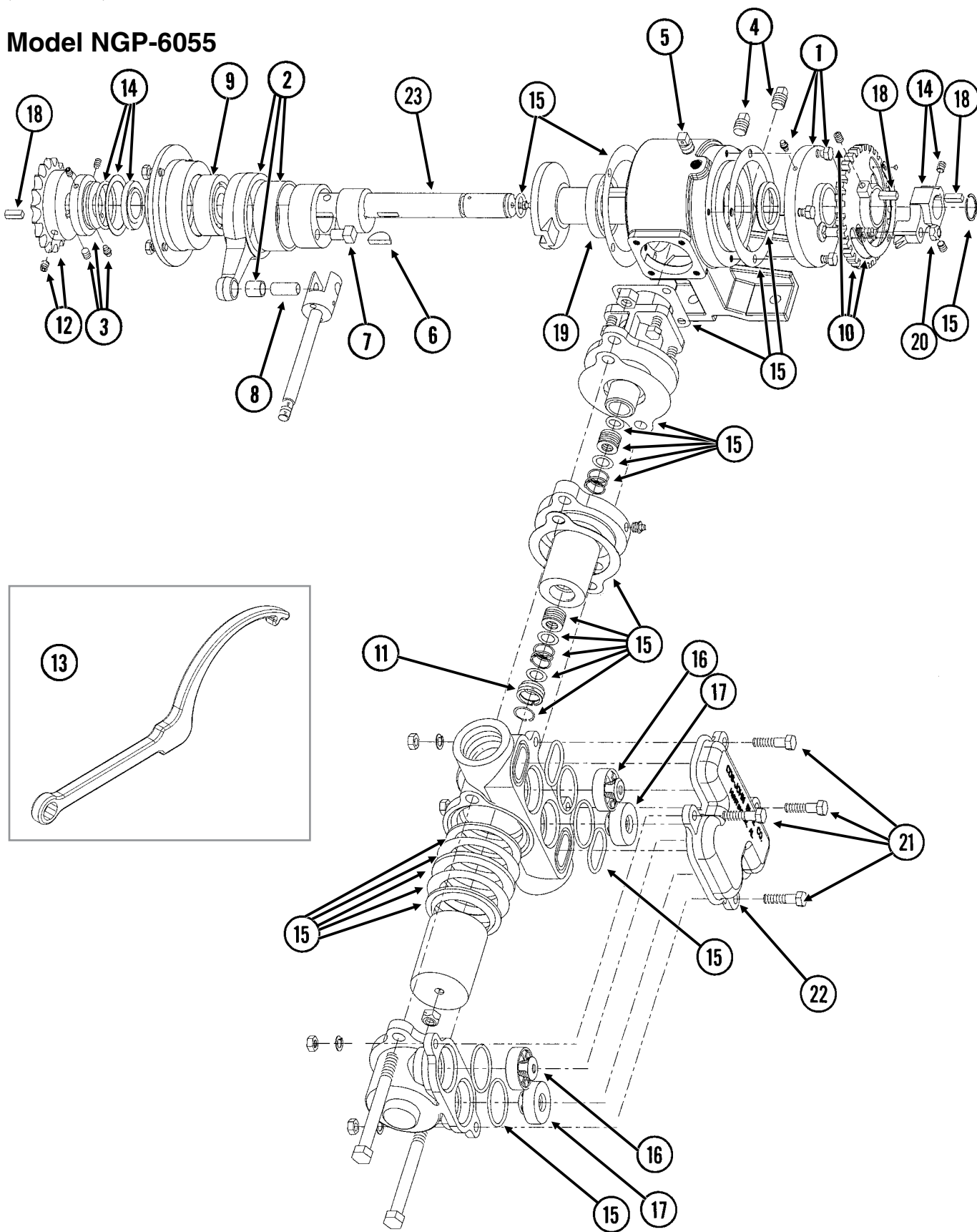


ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1389	1	Sprocket, 18 Tooth
2	G10688	2	Square Head Set Screw, $\frac{3}{8}$ "-16 x $\frac{5}{8}$ "
3	GR1425	1	Repair Kit, Includes Item 1 on page P137
4	GR1427	2	Bearing
5	GR1420	1	Woodruff Key, $\frac{3}{8}$ "-16 x $1\frac{3}{4}$ "
6	GR1167	1	Square Head Cap Screw, $\frac{3}{8}$ "-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 Mounting Brackets and Driveline" on page P133
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 See "Liquid Fertilizer Piston Pump (Cylinder Assembly) Uses 18 Tooth Sprocket" on page P137

ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1425	1	Repair Kit, Includes Item 3 page P135
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

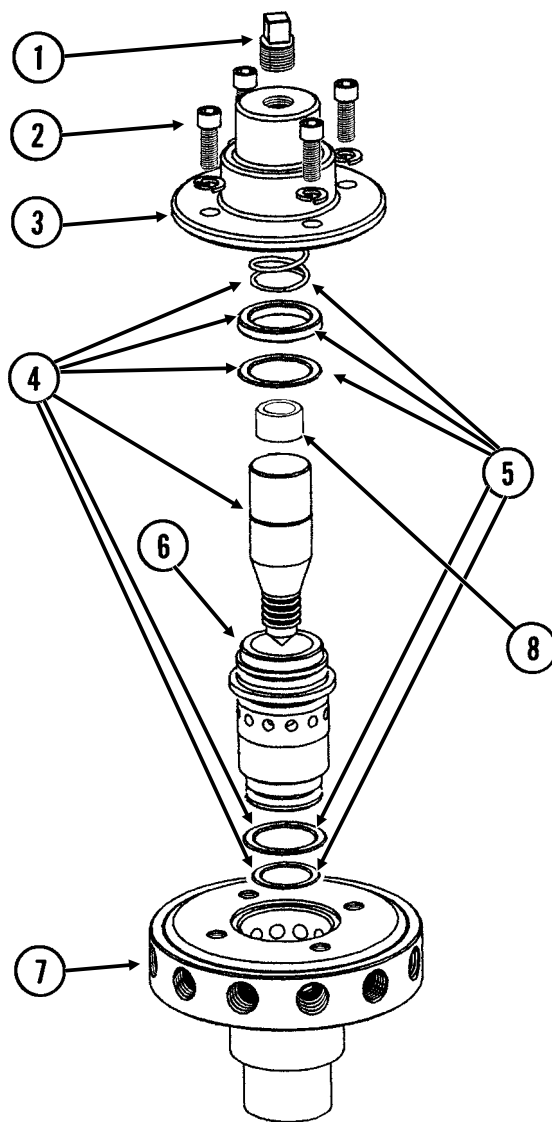
(A12335a/GR1808)

Model NGP-6055



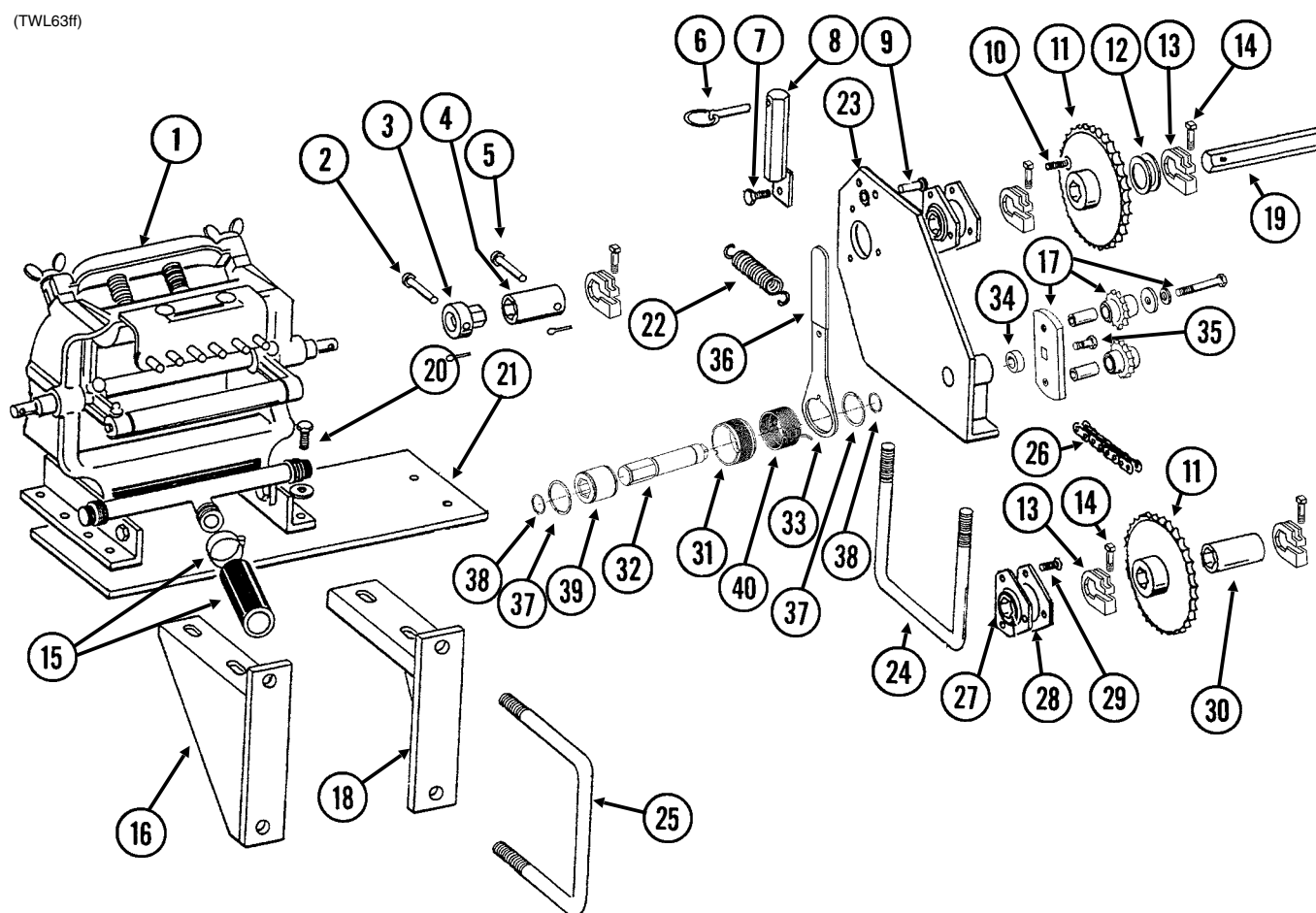
ITEM	PART NO.	QTY.	DESCRIPTION
1	GR1804	1	Flange Cover Assembly
	G10991	4	Hex Head Cap Screw, $\frac{5}{16}$ "-18 x $\frac{7}{8}$ "
2	GR1802	1	Connecting Rod Assembly
3	GR1801	1	Spacer Assembly
	G10693	3	Hex Socket Head Set Screw, $\frac{5}{16}$ "-18 x $\frac{3}{8}$ "
4	GR1123	2	Plug
5	GR1543	1	Vent 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
23	GR2185	1	Crankshaft
A	GA12330	-	Piston Pump Complete W/18 Tooth Sprocket (Model NGP-6055)

(FRTZ159/PT40a/FRTZ202c)

Model FD-1200 Flow Divider, 12 Outlet $\frac{3}{4}$ " 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 Outlets)
8	GR1574	-	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)

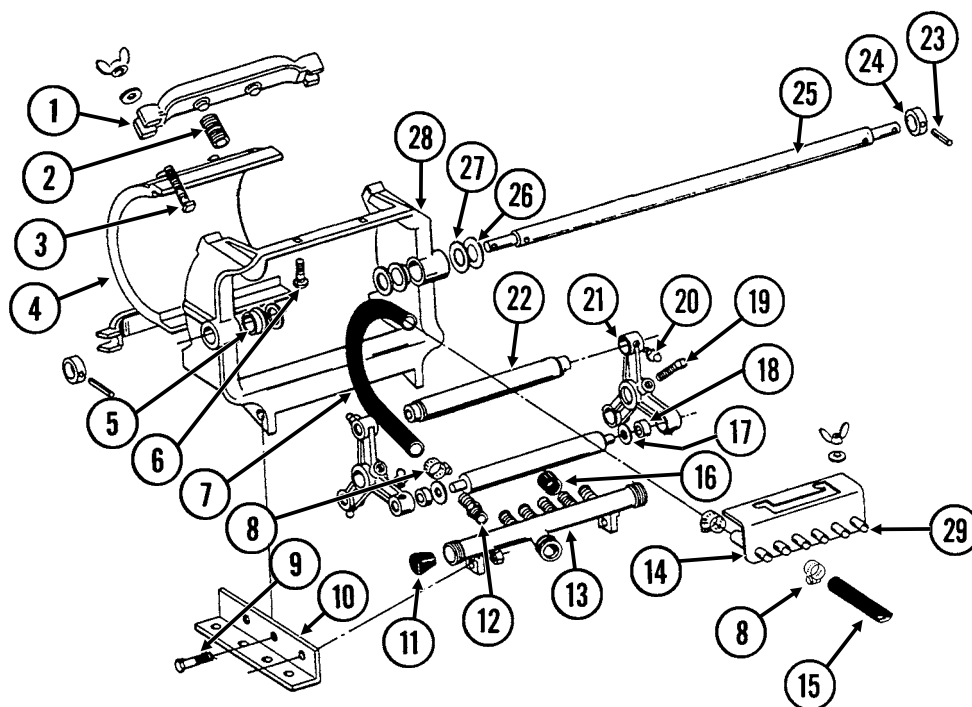
(TWL63ff)



ITEM	PART NO.	QTY.	DESCRIPTION
1	---	-	See "Liquid Fertilizer Piston Squeeze Pump, 6 Row" on page P145 or See "Liquid Fertilizer Piston Squeeze Pump, 8 Row" on page P147
2	G10821 G10455	1	Clevis Pin, $\frac{3}{16}$ " x 2" Cotter Pin, $\frac{1}{16}$ " x $\frac{1}{2}$ "
3	GD7127	1	Shear Coupler
4	GD9048	1	Coupler, 2 $\frac{1}{2}$ "
5	G10558 G10456	1 1	Clevis Pin, $\frac{9}{16}$ " x 1 $\frac{3}{4}$ " Cotter Pin, $\frac{1}{8}$ " x $\frac{3}{4}$ "
6	GD2558	1	Lynch Pin, $\frac{1}{4}$ "
7	G10037 G10228 G10102	1 1 1	Hex Head Cap Screw, $\frac{1}{2}$ "-13 x 1 $\frac{1}{4}$ " Lock Washer, $\frac{1}{2}$ " Hex Nut, $\frac{1}{2}$ "-13
8	GA5229	1	Sprocket Storage Rod
9	G10478	1	Clevis Pin, $\frac{5}{16}$ " x 1"
10	G10312 G10232 G10106	3 3 3	Carriage Bolt, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " Lock Washer, $\frac{5}{16}$ " Hex Nut, $\frac{5}{16}$ "-18
11	GA5105 GA5107 GA6513 GA5202 GA6514 GA6515	1 1 1 1 1 -	Sprocket, 15 Tooth Sprocket, 19 Tooth Sprocket, 32 Tooth Sprocket, 34 Tooth Sprocket, 46 Tooth Sprocket, 62 Tooth (Optional)
12	G10233	2	Machine Bushing, 1 $\frac{1}{2}$ " x $\frac{1}{32}$ ", 10 Gauge

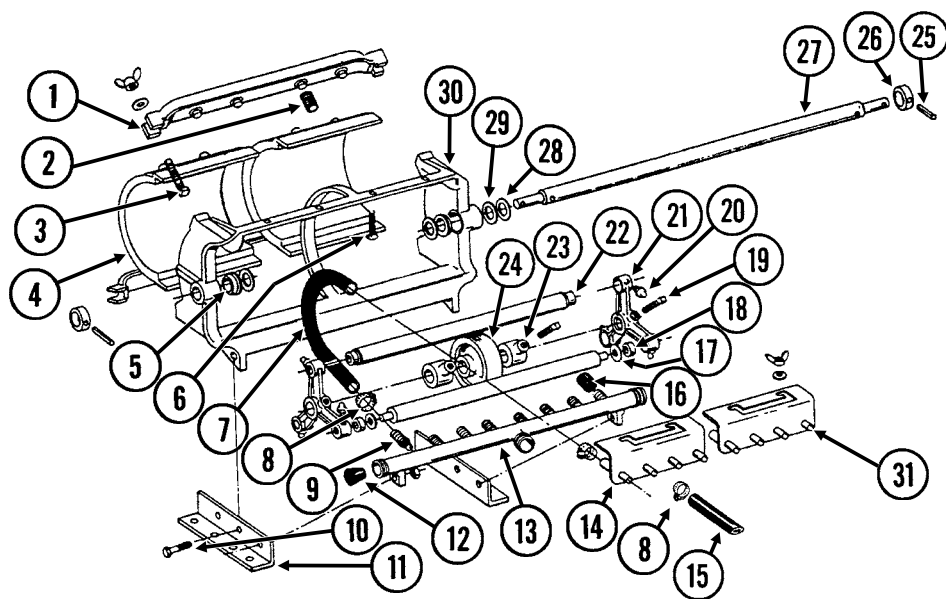
ITEM	PART NO.	QTY.	DESCRIPTION
13	GD11045	5	Lock Clamp
14	G10130	5	Square Head Machine Bolt, 5/16"-18 x 1 3/4"
	G10923	5	Flange Nut, 5/16"-18, No Serration
15	---	-	See "Liquid Fertilizer Tanks, Saddles, Mounts, Hoses, and Fittings" on page P131
16	GA4619	1	Pump Mount, L.H.
17	GA7336	1	Idler W/Bolt-On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

LFC011/LFC011(PT47a)



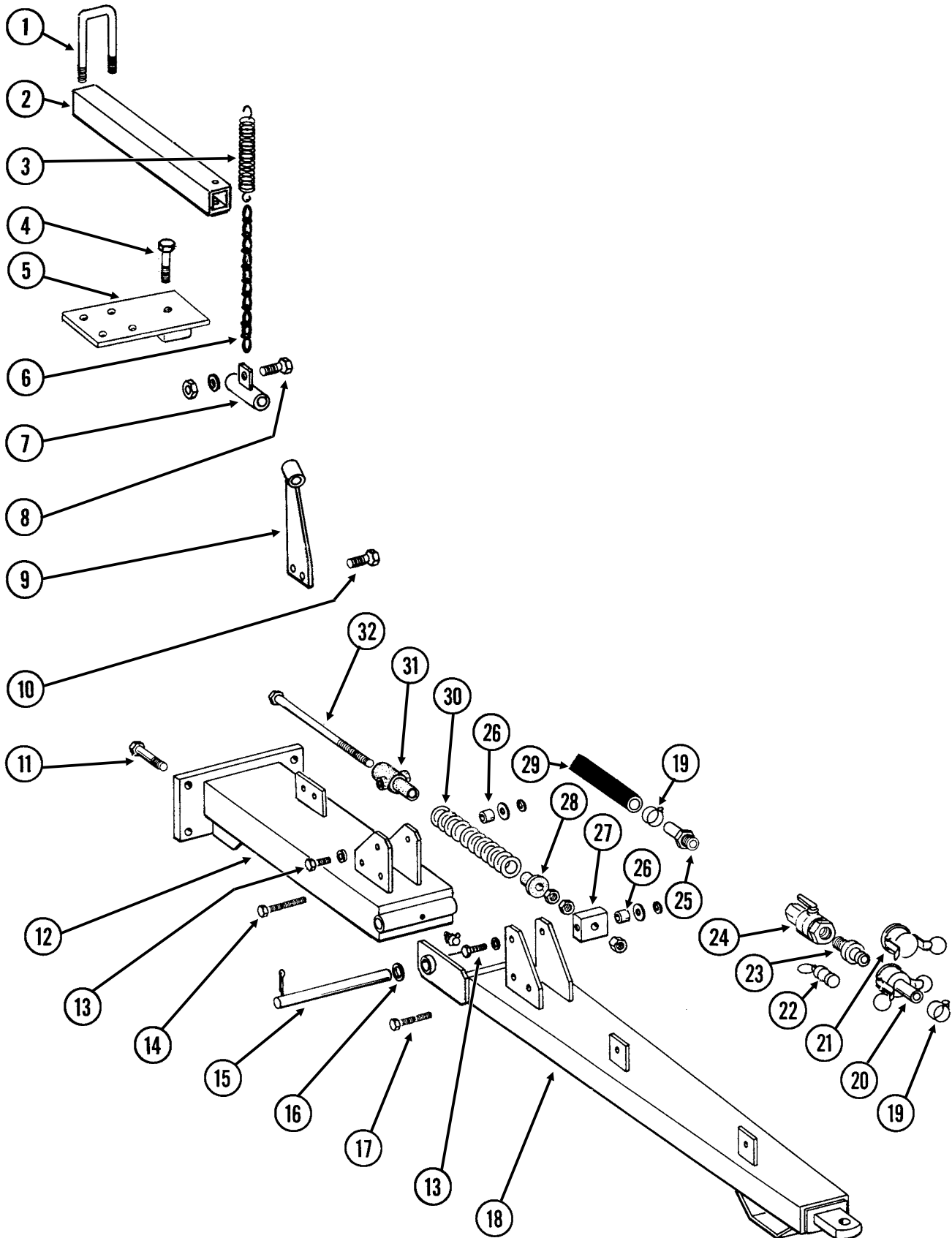
ITEM	PART NO.	QTY.	DESCRIPTION
1	GR0216	2	Spring Anchor Bar
2	GR0214	4	Spring
3	G10130	4	Square Head Machine Bolt, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ "
	G11386	4	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	4	Wing Nut, $\frac{5}{16}$ "-18
4	GR0212	1	Plate
5	GR0207	2	Nylon Bushing
6	G10303	2	Carriage Bolt, $\frac{5}{16}$ "-18 x 1"
	G11386	2	Flat Washer, $\frac{5}{16}$ " SAE
	G10144	2	Wing Nut, $\frac{5}{16}$ "-18
7	GR0215	6	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	6	Adapter
13	GR0228	1	Intake Manifold
14	GR1484	1	Discharge Manifold Less Hose Barbs
15	G4301-02	1	Hose, $\frac{3}{8}$ " x 50'
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	GR0233	3	Roller
23	G10718	2	Spring Pin, $\frac{5}{16}$ " x $1\frac{1}{8}$ "
24	GD9109	2	Sleeve
25</			

LFC010(PT48a)



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			

PHA032/LFC003(TWL47b)

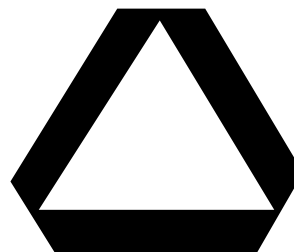


ITEM	PART NO.	QTY.	DESCRIPTION
1	GD2721	2	U-Bolt, 2" x 2" x 1/2"-13
	G10228	4	Lock Washer, 1/2"
	G10102	4	Hex Nut, 1/2"-13
2	GD10196	-	Hanger Tube
3	GD0829	-	Spring
4	G10013	1	Hex Head Cap Screw, 5/8"-11 x 3 1/2" (As Required)
	G11391	1	Flat Washer, 5/8" SAE (As Required)
	G10230	1	Lock Washer, 5/8" (As Required)
	G10056	-	Hex Head Cap Screw, 3/4"-10 x 3 1/2" (As Required)
	G11392	-	Flat Washer, 3/4" SAE (As Required)
	G10231	-	Lock Washer, 3/4" (As Required)
5	GA7211	1	Mount
6	G3305-03	-	Twin Loop Chain, 15 Links
7	GA7209	-	Hose Support
8	G10064	1	Hex Head Cap Screw, 1/4"-20 x 1"
	G11385	2	Flat Washer, 1/4" SAE
	G10110	1	Lock Nut, 1/4"-20, Grade B
9	GA7208	-	Hose Support
10	G10004	2	Hex Head Cap Screw, 3/8"-16 x 1 1/4"
	G10108	2	Lock Nut, 3/8"-16
11	G10826	5	Hex Head Cap Screw, 1"-8 x 2 1/2"
	G10396	5	Lock Nut, 1"-8
12	GA6960	1	Hitch
13	G10007	4	Hex Head Cap Screw, 5/8"-11 x 1 1/2"
	G11391	4	Flat Washer, 5/8" SAE
	G10230	4	Lock Washer, 5/8"
14	G10756	1	Hex Head Cap Screw, 3/8"-16 x 6"
	G10229	1	Lock Washer, 3/8"
	G10101	1	Hex Nut, 3/8"-16
15	GD3547	1	Pin, 1 1/4" x 12 3/4"
16	G11396	2	Flat Washer, 1 1/4" SAE
	G1		

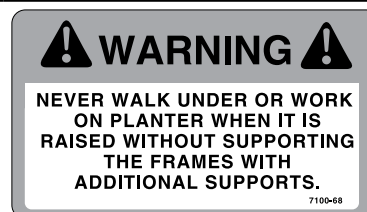
G7100-68
or
G7100-385



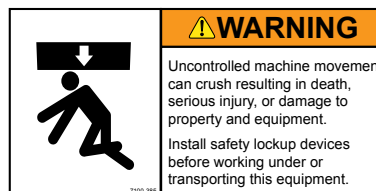
GD7100-63



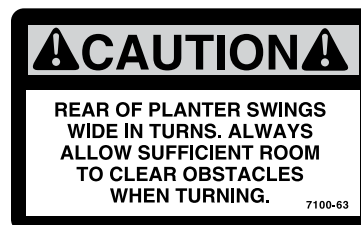
Part No.: GD2199
Description: SMV Sign
Quantity: 1



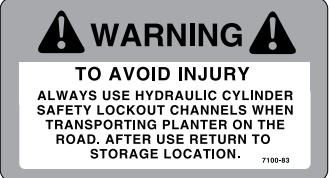
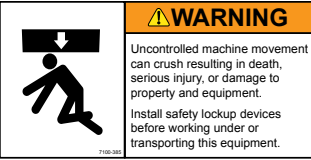
Part No.: G7100-68
Description: Decal, Warning (Prior to 2012 Production)
Quantity: 2 (1 On Each End of Planter Frame)

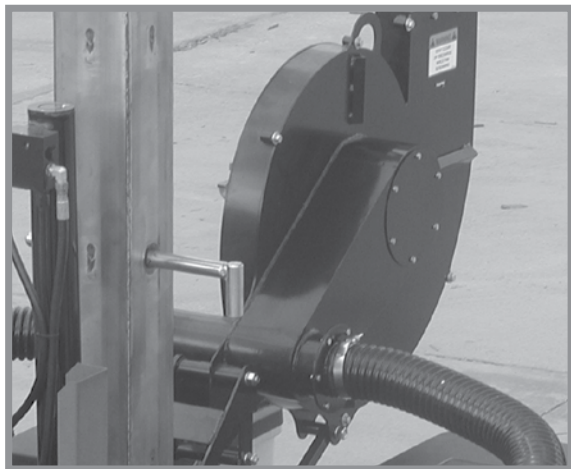


Part No.: G7100-385
Description: Decal, Warning (2012 Production and On)
Quantity: 2 (1 On Each End of Planter Frame)



Part No.: G7100-63
Description: Decal, Caution
Quantity: 2 (On Each End of Planter Frame) (Used prior to 2013 Production)

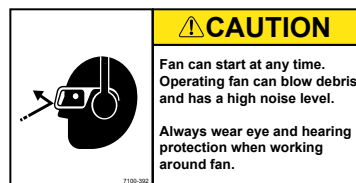
G7100-42 or G7100-397  G7100-83 or G7100-385	
	Part No.: G7100-42 Description: Decal, Warning (Prior to 2012 Production) Quantity: 4 (2 Per Row Marker)
	
	Part No.: G7100-397 Description: Decal, Warning (2012 Production and on) Quantity: 1 (Per Row Marker Cylinder - Conventional) 4 (2 Per Row Marker)
	
	Part No.: G7100-83 Description: Decal, Warning (Prior to 2012 Production) Quantity: 2 (1 Per Marker Lockup)
	
	Part No.: G7100-385 Description: Decal, Warning (2012 Production and On) Quantity: 1 (Located On Interplant Lift Cylinder Lockup)



Part No.: G7100-301

Description: Decal, Warning (Prior to 2012 Production)

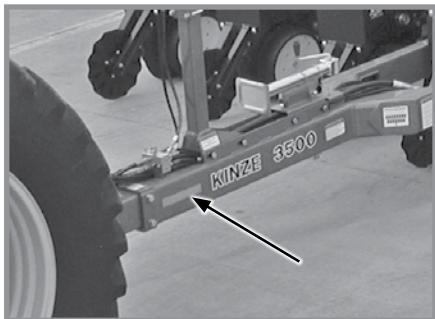
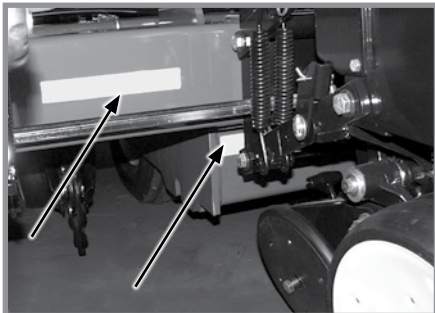
Quantity: 2 (Located On Each Side Of Fan)



Part No.: G7100-392

Description: Decal, Caution (2012 Production and on)

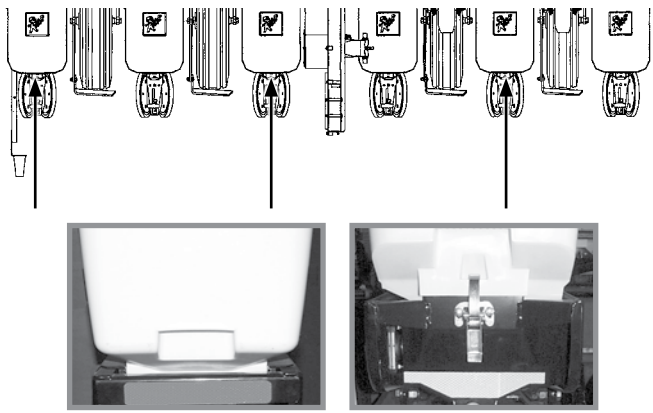
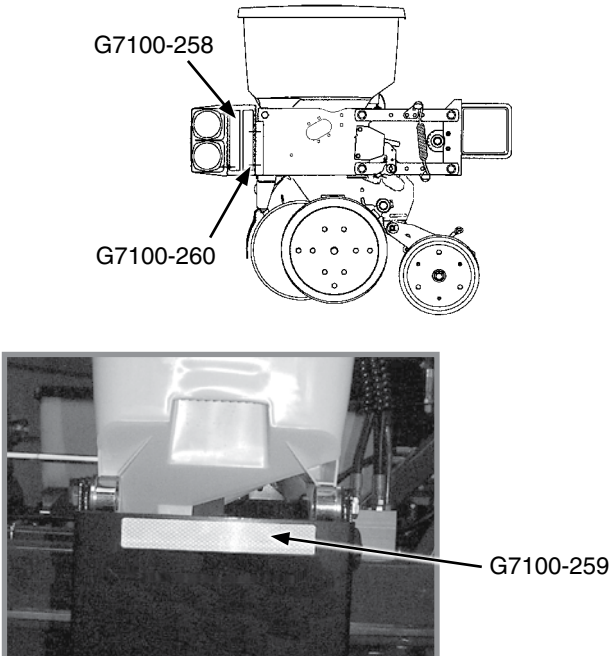
Quantity: 2 (Located On Each Side Of Fan)

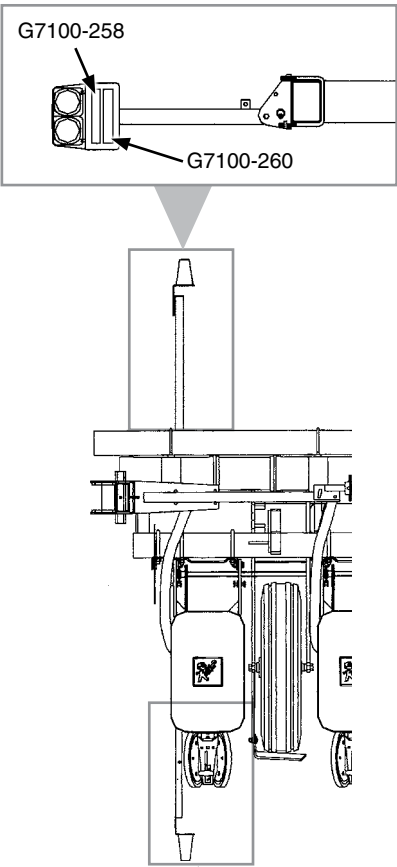
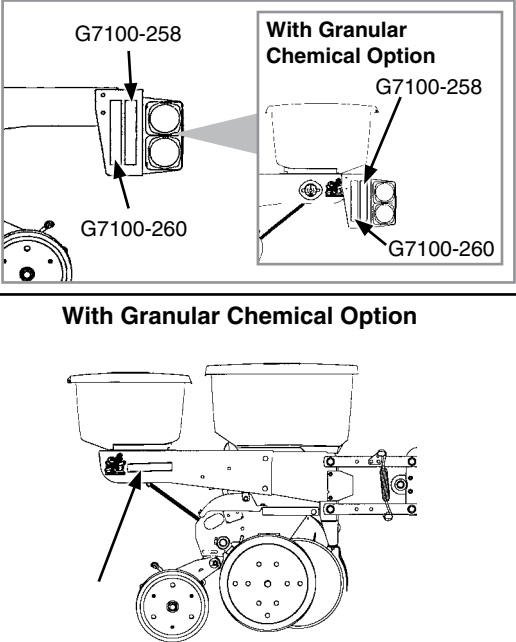


Part No.: G7100-259

Description: Reflective Decal, Amber, 1½" x 9", Rectangular

Quantity: 7 On 6 Row/Qty. 8 On 8 Row (Located on the front planter toolbar in front of every other row unit beginning on the L.H. side of the planter and forward-facing on the outer ends of The transport axle. One located on each side of hitch.)

	 Part No.: G7100-259 Description: Reflective Decal, Amber, 1½" x 9", Rectangular Quantity: 2 (Per Row Unit - Located On The Granular Chemical Hopper Panel Extension Of Every Other Row Unit Beginning On The L.H. Side Of The Planter - Side-Facing In Transport Position) Part No.: G7100-262 Description: Reflective Decal, Amber, 1¾" x 9", Die-Cut Quantity: 1 (Qty. 1 Per Row Unit - Located On The Hopper Support Of Every Other Row Unit Beginning On The L.H. Side Of The Planter - Side-Facing In Transport Position)
	 Part No.: G7100-258 Description: Reflective Decal, Red, 1½" x 9" Rectangular Quantity: 1 (Per Scraper - Located On Top) Part No.: G7100-260 Description: Reflective Decal, Orange, 1½" x 9" Rectangular Quantity: 1 (Per Scraper - Located On Bottom)
With Even-Row Push Row Unit Option 	 Part No.: G7100-258 Description: Reflective Decal, Red, 1½" x 9" Rectangular Quantity: 1 (Located On The Light Bracket On The L.H. Side Of The Planter - Rear-Facing In Transport Position) Part No.: G7100-260 Description: Reflective Decal, Orange, 1½" x 9" Rectangular Quantity: 1 (Located On The Light Bracket On The L.H. Side Of The Planter - Rear-Facing In Transport Position) Part No.: G7100-259 Description: Reflective Decal, Amber, 1½" x 9", Rectangular Quantity: 2 On 6 Row And 3 On 8 Row (Located On The Front Of Every Other Push Row Unit Beginning On The Second Row In - Side-Facing In Transport Position)

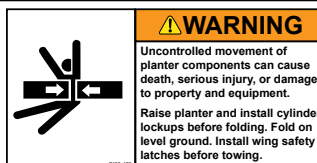
	Part No.: G7100-258 Description: Reflective Decal, Red, 1½" x 9" Rectangular Quantity: 1 (Located On The Light Bracket On the L.H. Side Of The Planter - Rear-Facing In Transport Position) 1 (Located On The Outer Row Unit On the L.H. Side Of The Planter - Rear-Facing In Transport Position) Part No.: G7100-260 Description: Reflective Decal, Orange, 1½" x 9" Rectangular Quantity: 1 (Located On The Light Bracket On the L.H. Side Of The Planter - Rear-Facing In Transport Position) 1 (Located On The Outer Row Unit On the L.H. Side Of The Planter - Rear-Facing In Transport Position)
With Granular Chemical Option 	Part No.: G7100-259 Description: Reflective Decal, Amber, 1½" x 9", Rectangular Quantity: 1 (Located On The Outer Row Unit On The R.H. Side Of The Planter - Forward- Facing In Transport Position)



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

Description: Decal, Danger

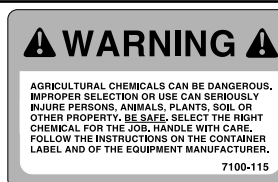
Quantity: 1 (Located on Wheel Modules On Both Ends Of Planter)



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

Description: Decal, Warning

Quantity: 1 (Located on Wheel Modules On Both Ends Of Planter)



Part No.: G7100-115 (used prior to 2013 production)
(replaced by G7100-381)

Description: Decal, Warning

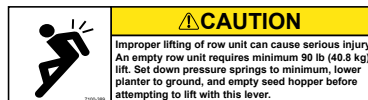
Quantity: 1 (1 Per Row Unit - Located On Und



Part No.: G7100-249

Description: Decal, Caution

Quantity: 1 (Located On Interplant Push Row Unit Lift Lever) (Prior to 2012 Production)



Part No.: G7100-389

Description: Decal, Caution

Quantity: 1 (Located On Interplant Push Row Unit Lift Lever) (2012 Production and on)

Part No.: G7100-215 (used prior to 2013 production)
(replaced by G7100-386)

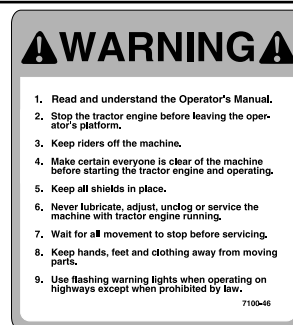
Description: Decal, Danger

Quantity: 1





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

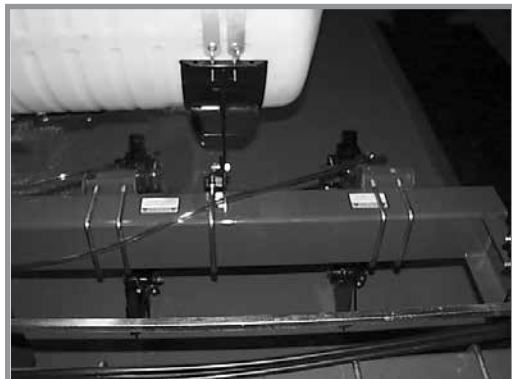


Part No.: G7100-46 (used prior to 2013 production)
Description: Decal, Warning
Quantity: 1



Part No.: G7100-68 (used prior to 2013 production)
(replaced by G7100-385)
Description: Decal, Warning
Quantity: 1

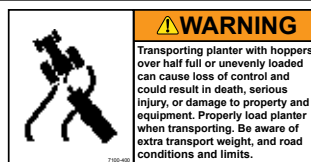




Part No.: G7100-75

Description: Decal, Caution (Prior to 2012 Production)

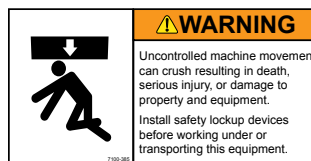
Quantity: 4 (Located On Top Of Toolbar 36" And 51" From L.H. End of Toolbar And 28" And 43" From R.H. End of Toolbar)



Part No.: G7100-400

Description: Decal, Warning (2012 Production and On)

Quantity: 2 (Located On Top Of Toolbar 36" From L.H. End of Toolbar And 28" From R.H. End of Toolbar)



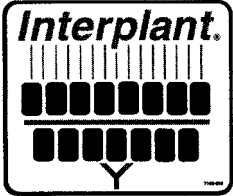
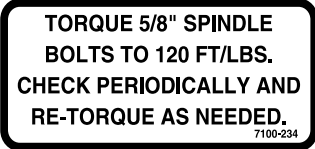
Part No.: G7100-385

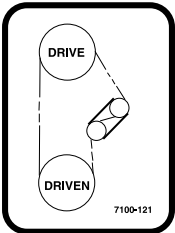
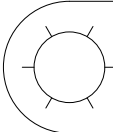
Description: Decal, Warning (2012 Production and On)

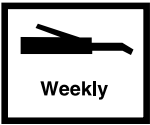
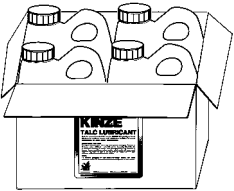
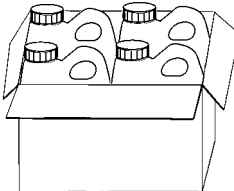
Quantity: 2 (Located On Top Of Toolbar 51" From L.H. End of Toolbar And 43" From

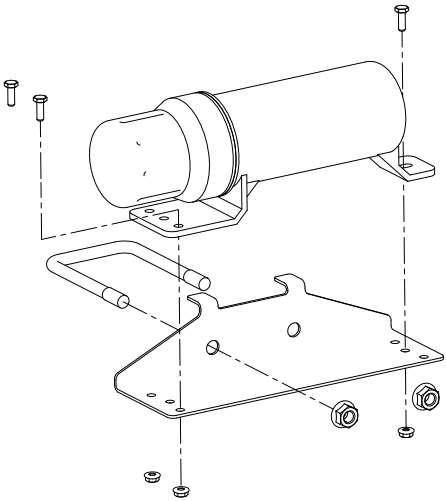
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	Part No.: GD10057-01 Description: Hose Identification Sleeve, Red AA Part No.: GD10057-02 Description: Hose Identification Sleeve, Red BB Part No.: GD10057-03 Description: Hose Identification Sleeve, Blue AA Part No.: GD10057-04 Description: Hose Identification Sleeve, Blue BB Part No.: GD10057-19 Description: Hose Identification Sleeve, Orange CD
	Part No.: G7100-295 Description: Decal, Spring Tension Release Quantity: -
	Part No.: G7100-104 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)
	Part No.: G7100-244 Description: Decal, 3500 Quantity: 2
	Part No.: G7100-177 Description: Decal, Twin-Line®, 3/4" x 3" Quantity: 1
	Part No.: G7100-234 Description: Decal, Bolt Torque Quantity: -

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
 7100-121	Part No.: G7100-121 Description: Decal, Transmission Quantity: 1
USE 1 TABLESPOON POWDERED GRAPHITE WITH EACH HOPPER FILL OF SEED. SEED TREATMENT, FOREIGN MATERIAL, DIRT, OR SEED CHAFF MAY CAUSE GRADUAL REDUCTION OF SEED POPULATION. REFER TO MANUAL FOR MAINTENANCE AND CARE. 7100-153	Part No.: G7100-153 Description: Decal, Information Quantity: 1 Per Brush-Type Seed Meter
MARKER RELEASE HYDRAULIC PRESSURE BEFORE TURNING VALVE FOLD 7100-337	Part No.: G7100-337 Description: Decal, Instruction
EdgeVac® PROTECTED BY THE FOLLOWING PATENTS UNITED STATES 7,093,548 7,152,542 7100-456	Part No.: G7100-456 (replaces G7100-311) Description: Decal, EdgeVac
 NOTICE -FAN MOTOR CASE DRAIN- ALWAYS CONNECT THE FAN MOTOR CASE DRAIN HOSE TO THE TRACTOR ZERO PRESSURE RETURN. DO NOT CONNECT TO THE TRACTOR SCV OR MOTOR RETURN PORTS AS FAN HYDRAULIC MOTOR FAILURE WILL OCCUR. 7100-329	Part No.: G7100-329 Description: Tag, Fan Motor Case Drain
	Part No.: G7100-335 Description: Decal, Kinze Vision

	Part No.: G7100-352 Description: Decal, Tank Drain
	Part No.: G7100-111 Description: Decal, Oil Daily
	Part No.: G7100-116 Description: Decal, Grease Daily
	Part No.: G7100-110 Description: Decal, Grease Weekly
	Part No.: GR0155 Description: Blue Paint, Aerosol Can Part No.: GR0155MPP Description: Blue Paint, Twelve Aerosol Cans
	Part No.: GR0146 Description: Powdered Graphite, 1 Pound Container Part No.: GR0146MPP Description: Powdered Graphite, Twenty-Four 1 Pound Containers
	Part No.: GR1570MPP Description: Talc Lubricant, Four 8 Pound Containers Part No.: GR1828 Description: Talc Lubricant, 30 Pound Container
	Part No.: GR1842MPP Description: Graphite Lubricant, Four 5 Pound Containers
	Part No.: G7100-294 Description: Decal, KINZE 3500 (Prior to 2011 production) Quantity: 2 (1 On Each Side of Hitch)

	Part No.: G7100-365 Description: Decal, KINZE 3500 (2011 production and on) Quantity: 2 (1 On Each Side of Hitch)
	Part No.: GM0240-01 Description: Operator Manual, Model 3500 Part No.: GM0240-02 Description: Parts Manual, Model 3500 Part No.: GPR1094 Description: Binder (Contact Kinze Repair Parts To Order)
	Part No.: GA15422 Description: Operator's Manual Canister Quantity: 1
	Part No.: GD22686 Description: Manual Canister Bracket Quantity: 1
	Part No.: GD16642 Description: U-Bolt, 3" x 4" x 1/2"-13 Quantity: 1
	Part No.: G10071 Description: Serrated Flange Nut, 1/2"-13 Quantity: 2
	Part No.: G11166 Description: Hex Socket Flange Cap Screw, 1/4"-20 x 3/4" Quantity: 3
	Part No.: G11320 Description: Lock Nut, 1/4"-20, Grade B Quantity: 3
	Part No.: G7100-484 Description: Decal, American Flag

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*A1021.....	P100	A9442	P95	G10006.....	P73	G10028.....	P76
*A1026.....	P100	D13426.....	P93	G10006.....	P76	G10033.....	P38
*A1041.....	P100	G10001.....	P12	G10007.....	P4	G10033.....	P71
*A1055.....	P100	G10001.....	P14	G10007.....	P6	G10033.....	P80
*A1076.....	P100	G10001.....	P45	G10007.....	P15	G10036.....	P34
*A1078.....	P100	G10001.....	P48	G10007.....	P42	G10036.....	P62
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*A1109.....	P100	G10001.....	P54	G10007.....	P115	G10037.....	P4
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*A1153.....	P100	G10001.....	P63	G10007.....	P150	G10037.....	P72
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