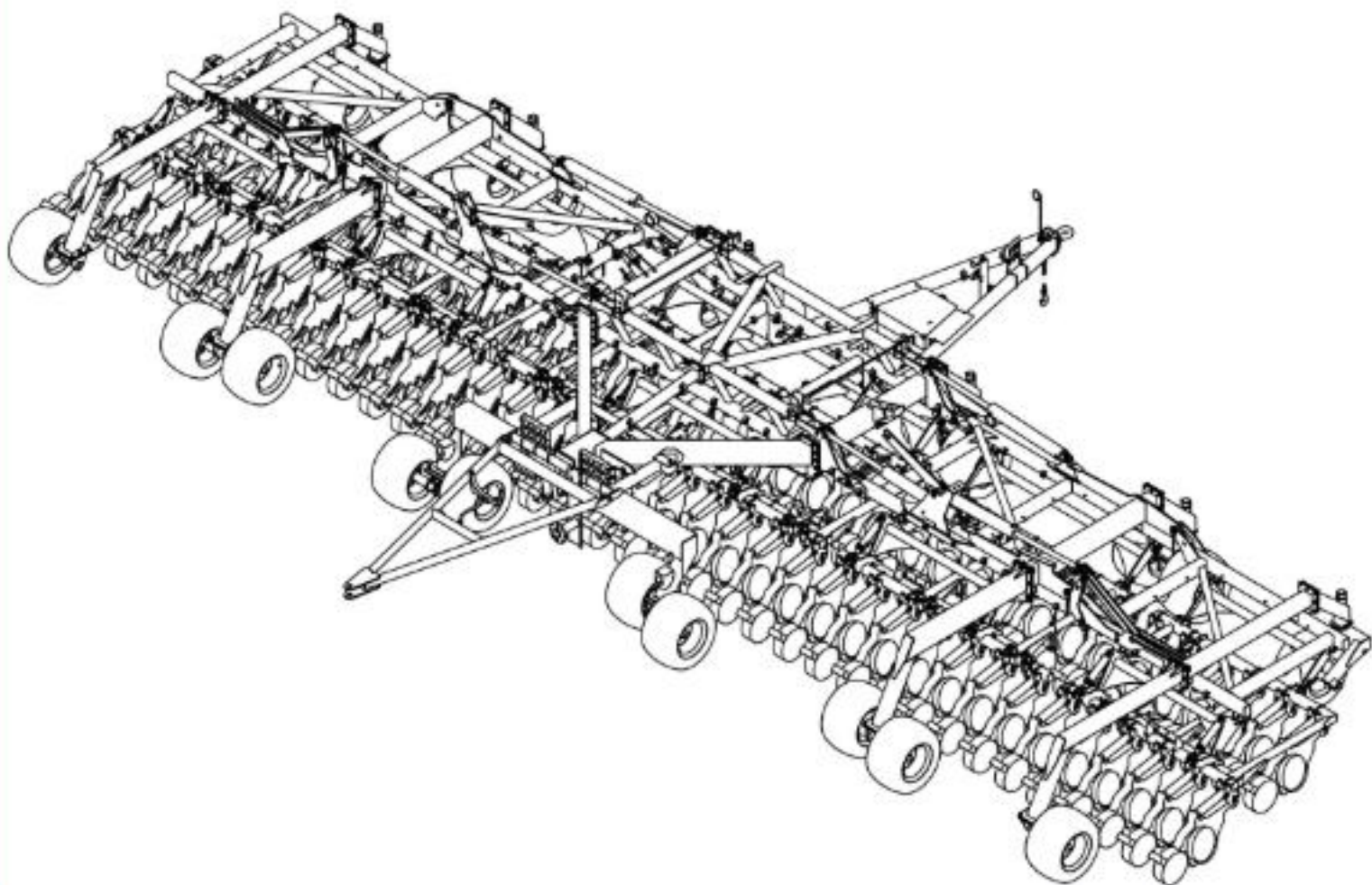




DH Series
Parts Manual
30' 40' 50' 60'
V2.8

Revised September 23, 2026

Parts Manual

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1 Overview

1.1 Terminology

###-###A:	"A" = Assembly. Refers to an assembly of the main part/weldment ("###-###") along with its fastened/bolt-on accessories/components/hardware. Details of the assembly will be found either within the preceding diagrams, or in the Sub-Assembly Parts Diagrams (Section 3), as applicable.
ASSY:	Assembly
DIM:	Dimension
HYD:	Hydraulic
LH:	Left-hand (relative to facing direction of travel)
N/A:	Not applicable
PLCS:	Places
QTY:	Quantity
REF:	Reference
RH:	Right-hand (relative to facing direction of travel)
SEC:	Section
SP:	Spacing (e.g. 10" SP or 12" SP for openers / seed rows)
TBH:	Tow-behind (Air cart configured behind seed drill)
TBT:	Tow-between (Air cart configured between tractor and seed drill)
TYP:	Typical (Other features share the same characteristic)
UNO:	Unless noted otherwise

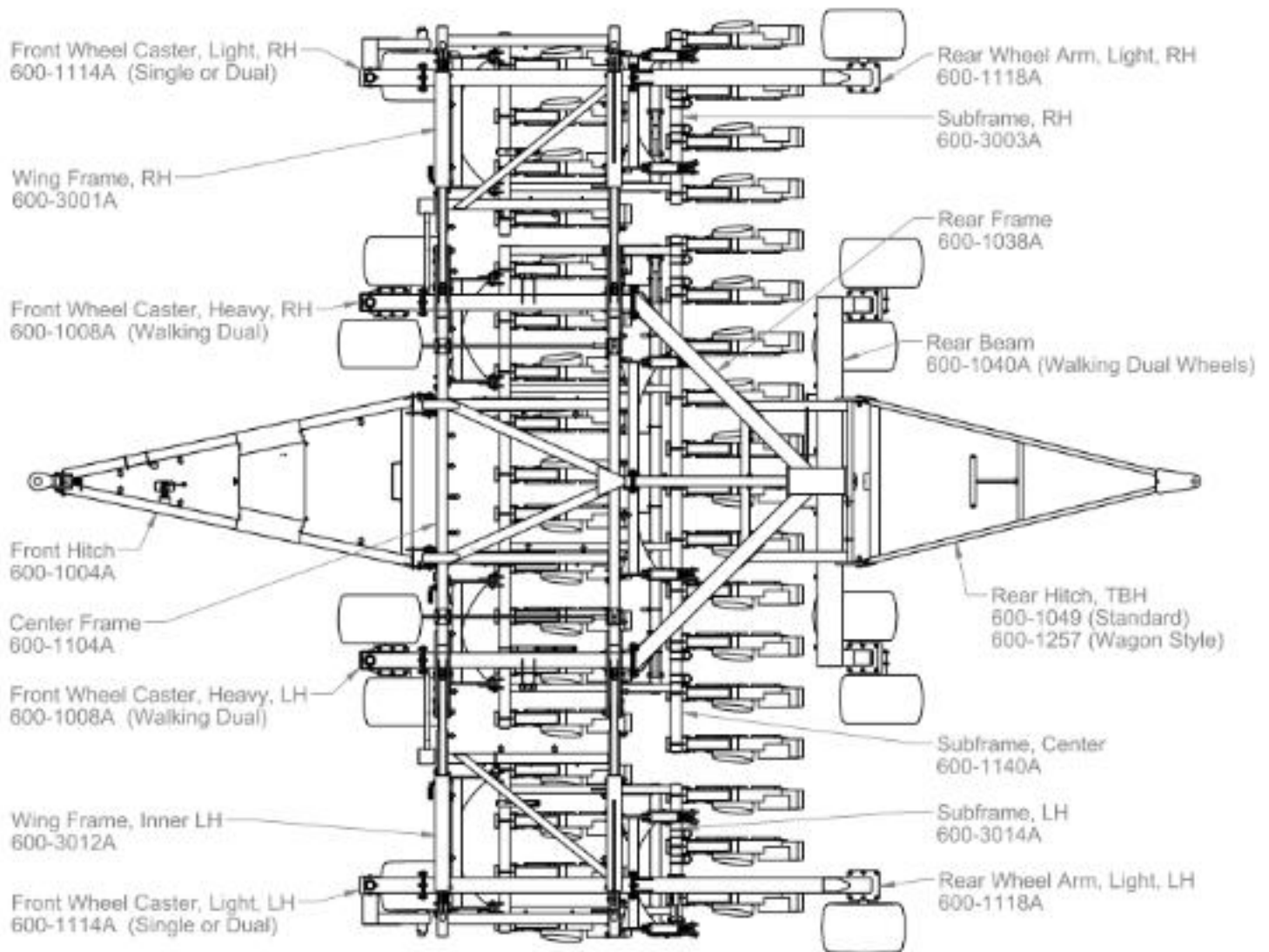
1.2 General Order of Assembly (Refer to Section 1.3)

1. Center "Wagon" Section
 - a. Center Frame (with hydraulics, incl. for wing subframes)
 - b. Rear Frame
 - c. Rear Beam
 - d. Front Caster Arms
 - e. Axle mounts/Tires/Wheels
 - f. Electrical Wiring
2. Subframes (pre-assembled with openers)
 - a. Refer to Subframe opener layout assembly drawings
 - b. Line up in correct order/spacing
 - c. Attach all torque tubes
3. Center "Wagon" Section placement
 - a. Lift assembled unit (excluding hitches) into place on center subframe and connect center section torque tubes
 - b. Install all 2.5" air hoses & air pack brackets to all subframes
4. Wing Frames
 - a. Lift into place on corresponding subframes
 - b. Connect wing torque tubes
5. Cylinders and remaining hydraulics
6. Front Caster Arms & Rear Wheel Support Frames for wings
7. Axle mounts/Tires/Wheels for wings
8. Front Hitch
9. Rear Hitch (TBH)
10. Accessories
 - a. Mud Scrapers on openers (if applicable)
 - b. Seed Tubes
 - c. Air Hose Clamps/Mounts, Header Mounts
 - d. Air Hose (finish remaining air pack installation)
 - e. Electrical / Wiring; Lights
 - f. Decals

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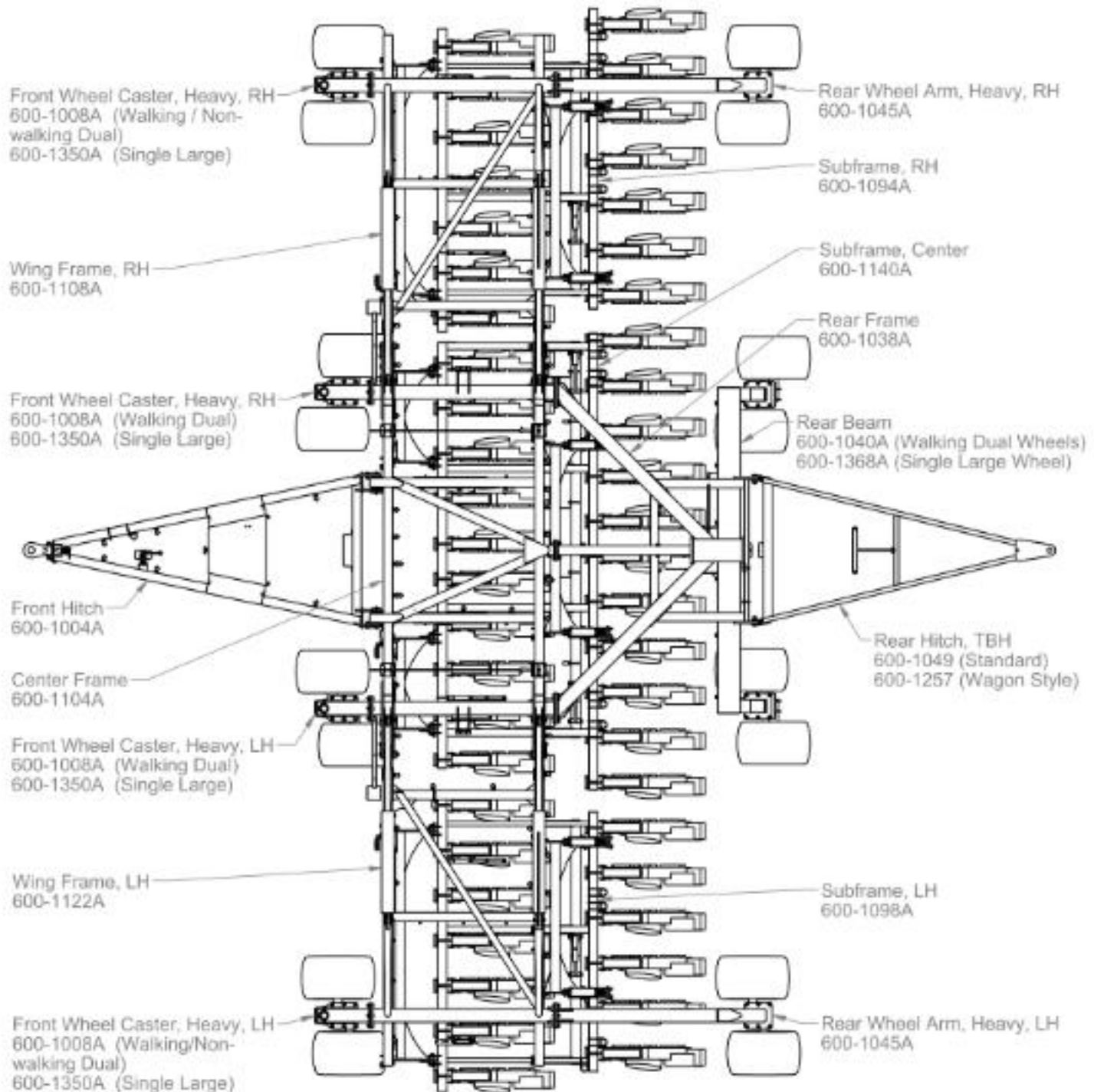
1.3 Layout of Major Components

1.3.1 30' Drill



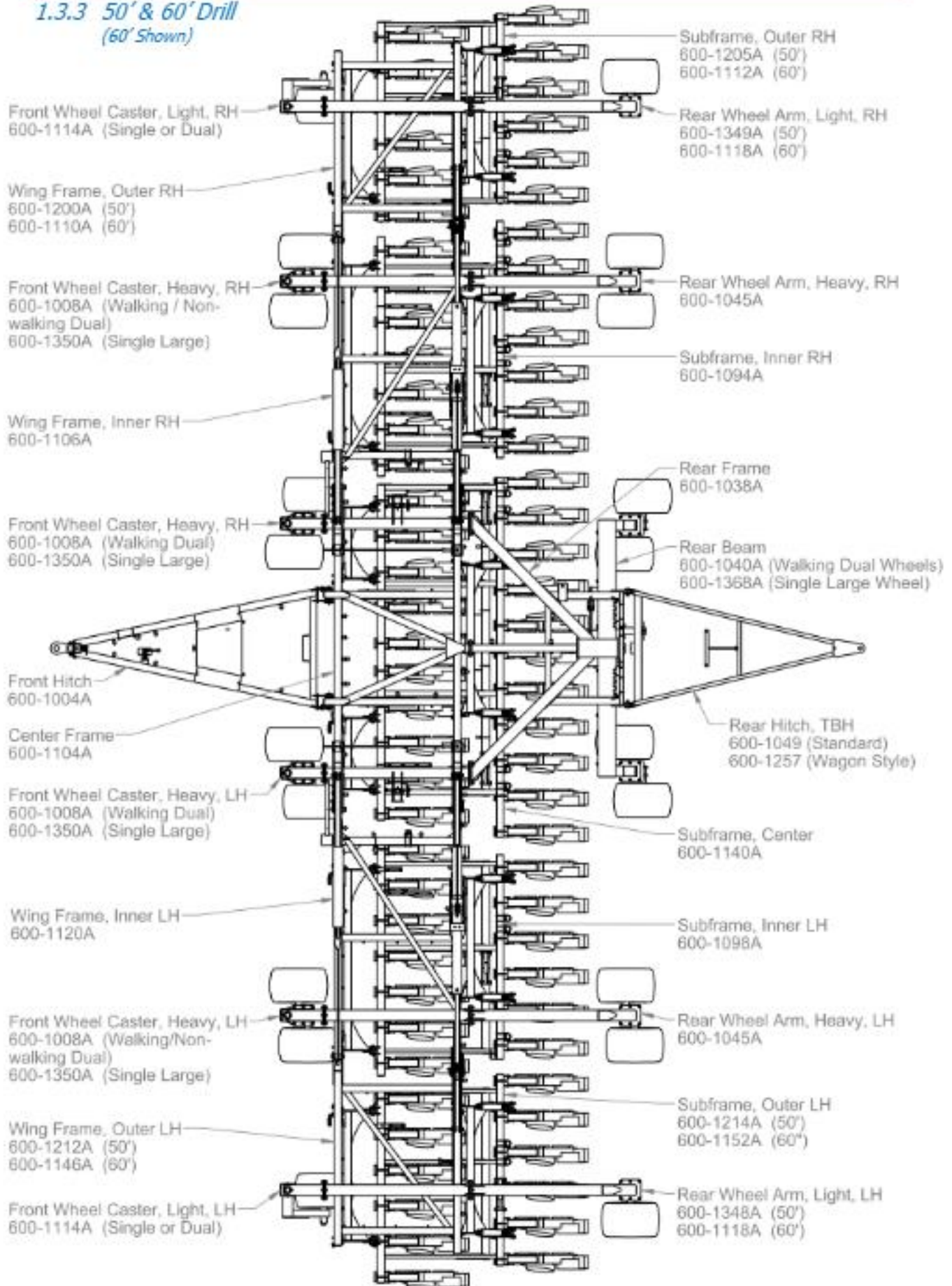
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1.3.2 40' Drill



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1.3.3 50' & 60' Drill (60' Shown)

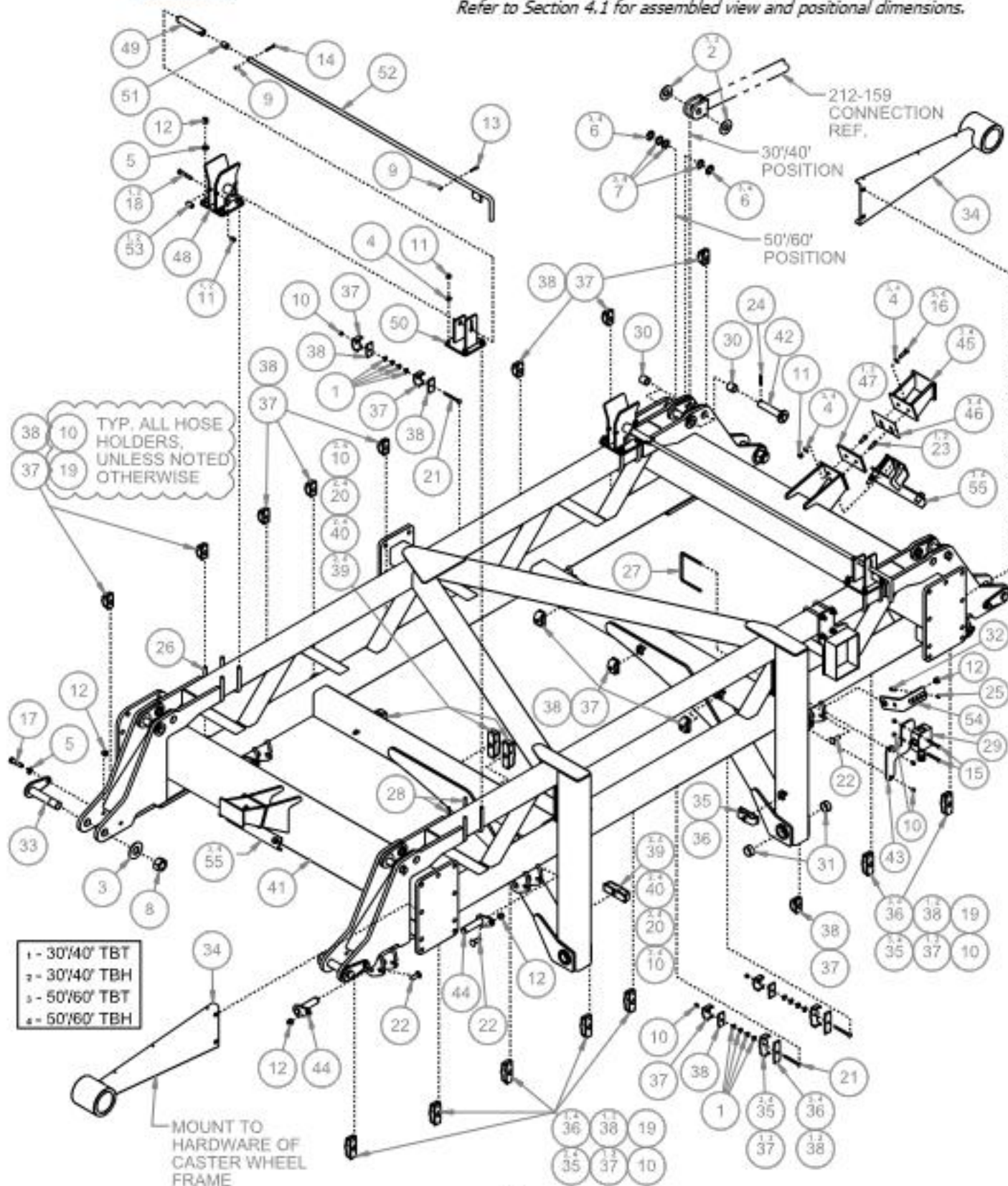


2 Parts Diagrams: Main Assemblies

(Listed in order of assembly)

2.1 Center Frame (600-1104A)

Refer to Section 4.1 for assembled view and positional dimensions.

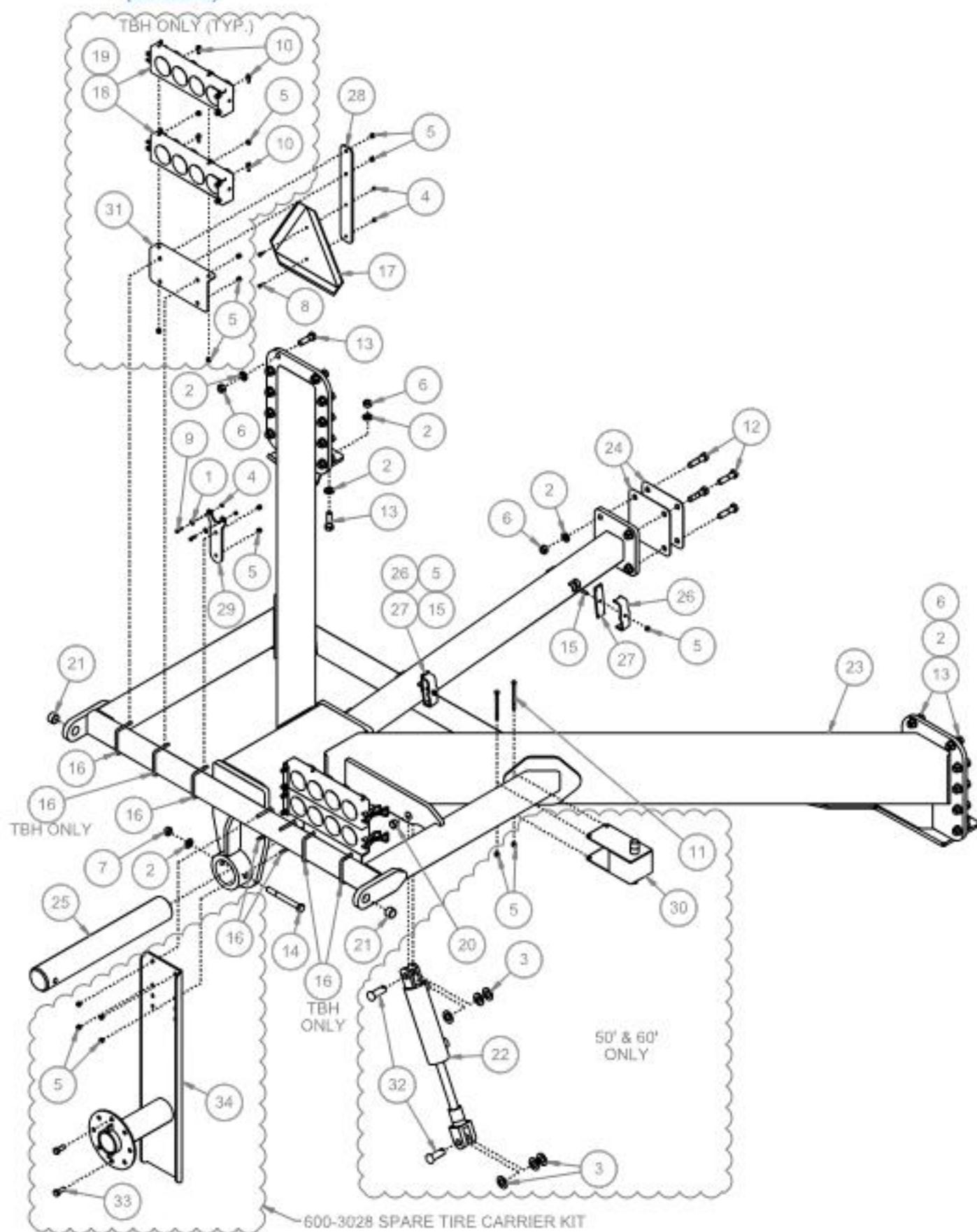


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Center Frame

ITEM NO.	PART NUMBER	DESCRIPTION	30'/40' TBT	30'/40' TBH	50'/60' TBT	50'/60' TBH
1	101-003	WASHER, 3/8 PLATED ASME WIDE	12	12	12	12
2	101-012	WASHER, 1-1/4 PLATED USS	8	8	-	-
3	101-014	WASHER, 1-1/2 PLATED USS	4	4	4	4
4	102-005	WASHER, 1/2 PLATED SAE	8	8	16	16
5	102-007	WASHER, 5/8 PLATED SAE	12	12	12	12
6	104-005	WASHER, 1-1/4" ID x 1-7/8" OD x 10ga. YZ	-	-	8	8
7	104-006	WASHER, 1-1/4" ID x 1-7/8" OD x 18ga. YZ	-	-	12	12
8	111-039	NUT, 1-1/2 UNF GR 8 PLATED	4	4	4	4
9	114-002	LOCKNUT, 5/16" UNC NYL INS GR 2 YZ	4	4	4	4
10	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	27	31	27	31
11	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	14	14	12	12
12	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	19	19	19	19
13	125-029	BOLT, 5/16 X 1-1/2 UNC GR5 PLATED	2	2	2	2
14	125-031	BOLT, 5/16 x 2 UNC GR 5 PLATED	2	2	2	2
15	125-060	BOLT, 3/8 X 3 UNC GR5 PLATED	2	2	2	2
16	125-104	BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	-	-	4	4
17	125-157	BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	4	4	4	4
18	130-109	BOLT, 1/2 X 3 UNC GR8 PLATED	2	2	-	-
19	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	20	20	20	20
20	145-059	CARR. BOLT, 3/8 X 2-1/2 UNC GR5 PLATED	-	4	-	4
21	145-065	CARR. BOLT, 3/8 X 4 UNC GR5 PLATED	3	3	3	3
22	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	7	7	7	7
23	165-009	Socket Countersunk Flat Head Cap Screw, 1/2-13 UNC, 1-1/2" LG	4	4	-	-
24	170-027	ROLL PIN, 3/8 X 2 PLATED	4	4	4	4
25	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	1	1	1	1
26	185-004	U-BOLT, 5/8 X 4-1/16 W X 5-1/2 H, UNC GR5 PLATED	4	4	4	4
27	185-006	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	1	1	1	1
28	185-007	U-BOLT, 1/2 X 4-1/16 W X 5-1/2 H, UNC GR5 PLATED	4	4	4	4
29	212-020	VALVE, PRV	1	1	1	1
30	212-065	TENSION BUSHING, 1-1/4" ID X 1-1/2" OD X 1-1/2" LG	8	8	8	8
31	212-069	TENSION BUSHING, 1-3/4" ID X 2" OD X 1" LG	4	4	4	4
32	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	1	1	1	1
33	600-1011	HINGE PIN	4	4	4	4
34	600-1056	LIGHT BRACKET	2	2	2	2
35	600-1058	HOSE CLAMP, WIDE	1	1	10	10
36	600-1060	LOWER PLATE, WIDE	1	1	10	10
37	600-1062	HOSE CLAMP, NARROW	25	25	16	16
38	600-1064	LOWER PLATE, NARROW	25	25	16	16
39	600-1066	HOSE CLAMP, 5" WIDE	-	4	-	4
40	600-1068	LOWER PLATE, 5" WIDE	-	4	-	4
41	600-1104	CENTER FRAME	1	1	1	1
42	600-1164	PIN, WING LIFT ARM, CYLINDER	4	4	4	4
43	600-1182	PRV BRACKET	1	1	1	1
44	600-1222	PIN, 1-1/4" DIA	6	6	6	6
45	600-1232	WING STOP SPACER	-	-	2	2
46	600-1233	WING REST SHIM, 16 GA	-	-	2 - 6	2 - 6
47	600-1239	UHMW SHIM, WING REST	2	2	-	-
48	600-1240	WING LOCK PIN GUIDE	2	2	2	2
49	600-1242	PIN	2	2	2	2
50	600-1244	LATCH GUIDE	2	2	2	2
51	600-1250	SLEEVE	2	2	2	2
52	600-1254	LATCH HANDLE	2	2	2	2
53	600-1450	ROLLER, TRANS-LOCK	2	2	-	-
54	600-2005	GREASE BANK MOUNT, 4-HOLE ASSY	1	1	1	1
55	600-3017	PLUNGER ASSEMBLY (SEE SUB-ASSY, SEC. 3.6)	-	-	2 (60' ONLY)	2 (60' ONLY)

2.2 Rear Frame (600-1038A)



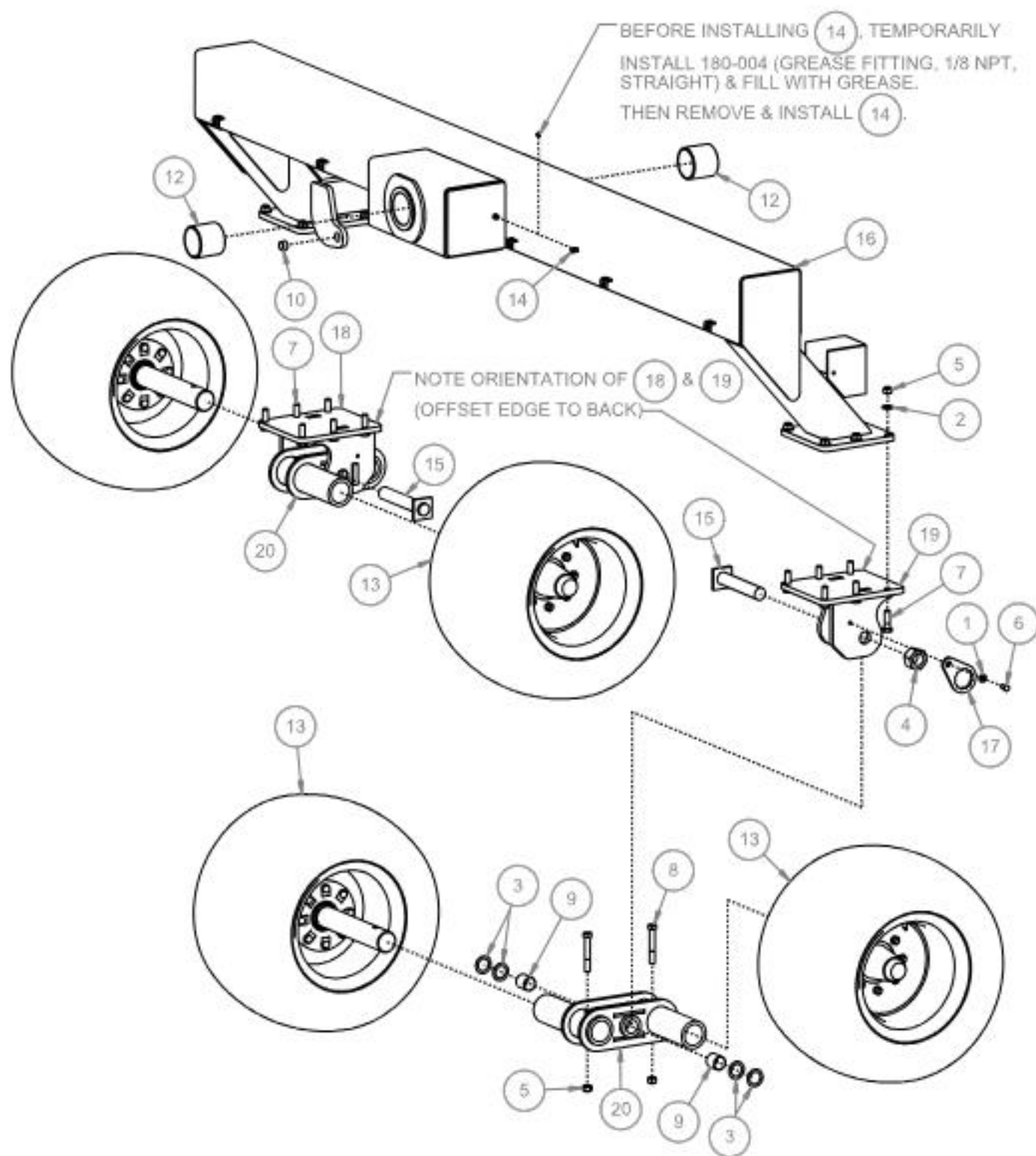
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Rear Frame

ITEM NO.	PART NUMBER	DESCRIPTION	30'/40' TBT	30'/40' TBH	50'/60' TBT	50'/60' TBH
1	101-001	WASHER, 1/4 PLATED ASME WIDE	2	2	2	2
2	102-008	WASHER, 3/4 PLATED SAE	37	37	37	37
3	102-010	WASHER, 1 PLATED SAE	-	-	6	6
4	114-001	LOCKNUT, 1/4" UNC NYL INS GR 2 YZ	4	4	4	4
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	4	20	6	22
6	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	30	30	30	30
7	119-008	STOVER NUT, 3/4 UNF GR 2 PLATED	1	1	1	1
8	125-001	BOLT, 1/4 X 3/4 UNC GR5 PLATED	2	2	2	2
9	125-002	BOLT, 1/4 X 1 UNC GR5 PLATED	2	2	2	2
10	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	-	8	-	8
11	125-068	BOLT, 3/8 X 5 UNC GR5 PLATED	-	-	2	2
12	125-184	BOLT, 3/4 X 3 UNC GR5 PLATED	4	4	4	4
13	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	26	26	26	26
14	140-200	BOLT, 3/4 X 7 UNF GR8 PLATED	1	1	1	1
15	145-059	CARR. BOLT, 3/8 X 2-1/2 UNC GR5 PLATED	-	2	-	2
16	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	2	5	2	5
17	210-055	SMV SIGN, 22 GA GALVANIZED	1	1	1	1
18	212-034	SS Quick Conn 4 x 2.5", Agri Stainless P/N QCSS42.5	-	-	-	4 (5010, 6010, 6012)
19	212-035	SS Quick Conn 3 x 2.5", Agri Stainless P/N QCSS32.5 (NOT SHOWN)	-	4	-	4 (5012)
20	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	-	-	1	1
21	212-064	TENSION BUSHING, 1-1/4" ID X 1-1/2" OD X 1" LG	2	2	2	2
22	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL	-	-	1	1
23	600-1038	REAR FRAME	1	1	1	1
24	600-1039	REAR FRAME MOUNT SHIM (USE AS-NEEDED)	0 - 3	0 - 3	0 - 3	0 - 3
25	600-1042	PIN, REAR BEAM	1	1	1	1
26	600-1066	HOSE CLAMP, 5" WIDE (3/4" HOSE X 4)	-	2	-	2
27	600-1068	LOWER PLATE, 5" WIDE (3/4" HOSE X 4)	-	2	-	2
28	600-1084	MOUNT, SLOW MOVING VEHICLE	1	1	1	1
29	600-1086	MOUNT, LIGHT PLUG	1	1	1	1
30	600-1168	OIL TANK	-	-	1	1
31	600-1190	TBH AIR PACK BRACKET	-	2	-	2
32	N/A	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	-	-	2	2
SPARE TIRE CARRIER KIT, 600-3028 (OPTIONAL)						
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ		4		
16	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED		2		
36	165-002	BOLT, WHEEL 9/16-18 UNF		2		
37	600-3026	SPARE TIRE CARRIER		1		

2.3 Rear Beams

2.3.1 Walking Duals Rear Beam (600-1040A)



Parts Manual

Walking Duals Rear Beam

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-005	WASHER, 1/2 PLATED SAE	2
2	102-008	WASHER, 3/4 PLATED SAE	12
3	104-004	WASHER, 1-3/4 ID x 2-1/2 OD x 18GA	8
4	111-040	NUT, 1-3/4 UNF GR 8 PLATED	2
5	118-042	STOVER NUT, 3/4 UNC GR C PLATED	16
6	125-101	BOLT, 1/2 X 1 UNC GR5 PLATED	2
7	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	12
8	130-192	BOLT, 3/4 X 5 UNC GR8 PLATED	4
9	206-503	BUSHING, igus Q25I-2831-32, 1-3/4" ID x 1-15/16" OD X 2" LG	4
10	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	1
11	212-067	TENSION BUSHING, 1-1/2" ID X 1-3/4" OD X 1-1/4" LG	2
12	212-071	TENSION BUSHING, 4" ID X 4-1/2" OD X 4" LG	2
13	212-158A	10,000 lb SPINDLE ("HEAVY") & TIRE ASSY (SEE SUB-ASSY, SEC. 3.2)	4
14	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° (REMOVE INNER TUBE STIFFENER/INSERT)	1
15	600-1023	WALKING AXLE PIN, PLAIN BRGS	2
16	600-1040	REAR BEAM	1
17	600-1071	ROTATION LOCK, 1-3/4" NUT	2
18	600-1052 600-1345	WALKING AXLE MOUNT, RH, OFFSET (NOT SHOWN) STRAIGHT WALKING AXLE MOUNT, OFFSET, RH (SHOWN)	1
19	600-1054 600-1346	WALKING AXLE MOUNT, LH, OFFSET (NOT SHOWN) STRAIGHT WALKING AXLE MOUNT, OFFSET, LH (SHOWN)	1
20	600-1334 600-1336 600-1347	WALKING AXLE, RH, EXTENDED, PLAIN BRGS (NOT SHOWN) WALKING AXLE, LH, EXTENDED, PLAIN BRGS (NOT SHOWN) STRAIGHT WALKING AXLE, EXT, PLAIN BRGS (SHOWN)	2

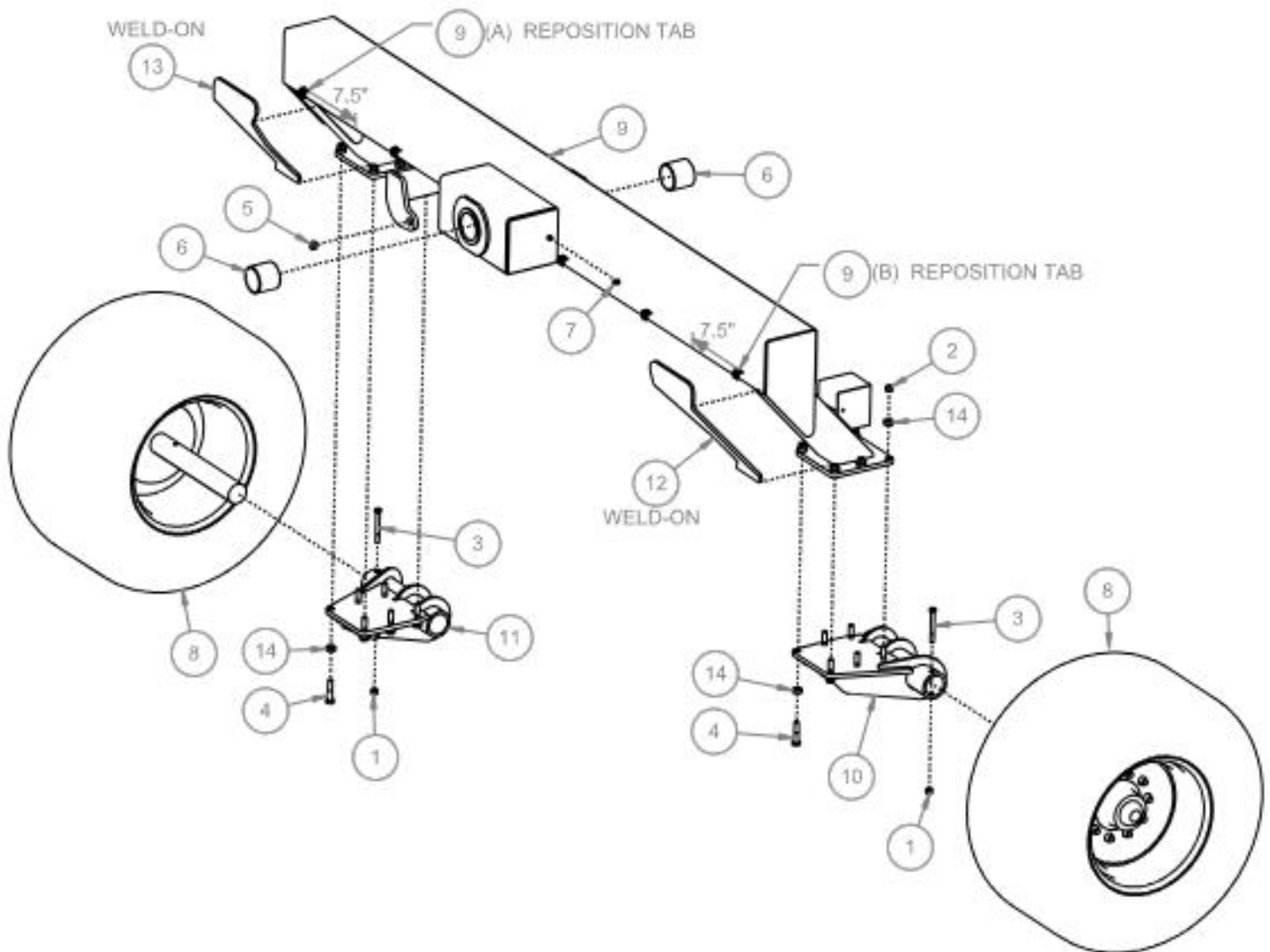
Parts Manual

<i>Single Big Wheels Rear Beam</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	2
2	118-042	STOVER NUT, 3/4 UNC GR C PLATED	12
3	125-169	BOLT, 5/8 X 5-1/2 UNC GR5 PLATED	2
4	125-748	BOLT, 3/4 X 3.5 UNC GR9 PLATED	12
5	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	1
6	212-071	TENSION BUSHING, 4" ID X 4-1/2" OD X 4" LG	2
7	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° <i>(REMOVE INNER TUBE STIFFENER/INSERT)</i>	1
8	212-591A	15,000 lb SPINDLE & TIRE ASSY ("SINGLE LARGE") <i>(SEE SEC. 3.4)</i>	2
9	600-1361	LARGE WHEEL SPINDLE MOUNT, LH	1
10	600-1362	LARGE WHEEL SPINDLE MOUNT, RH	1
11	600-1367	WASHER, 3/4" HEAVY	24
12	600-1368	REAR BEAM, LARGE WHEEL	1

2.3.3 Single Big/Large Wheels Rear Beam Retrofit (600-1040A)

WALKING DUALS TO SINGLE LARGE WHEEL RETROFIT PROCESS:

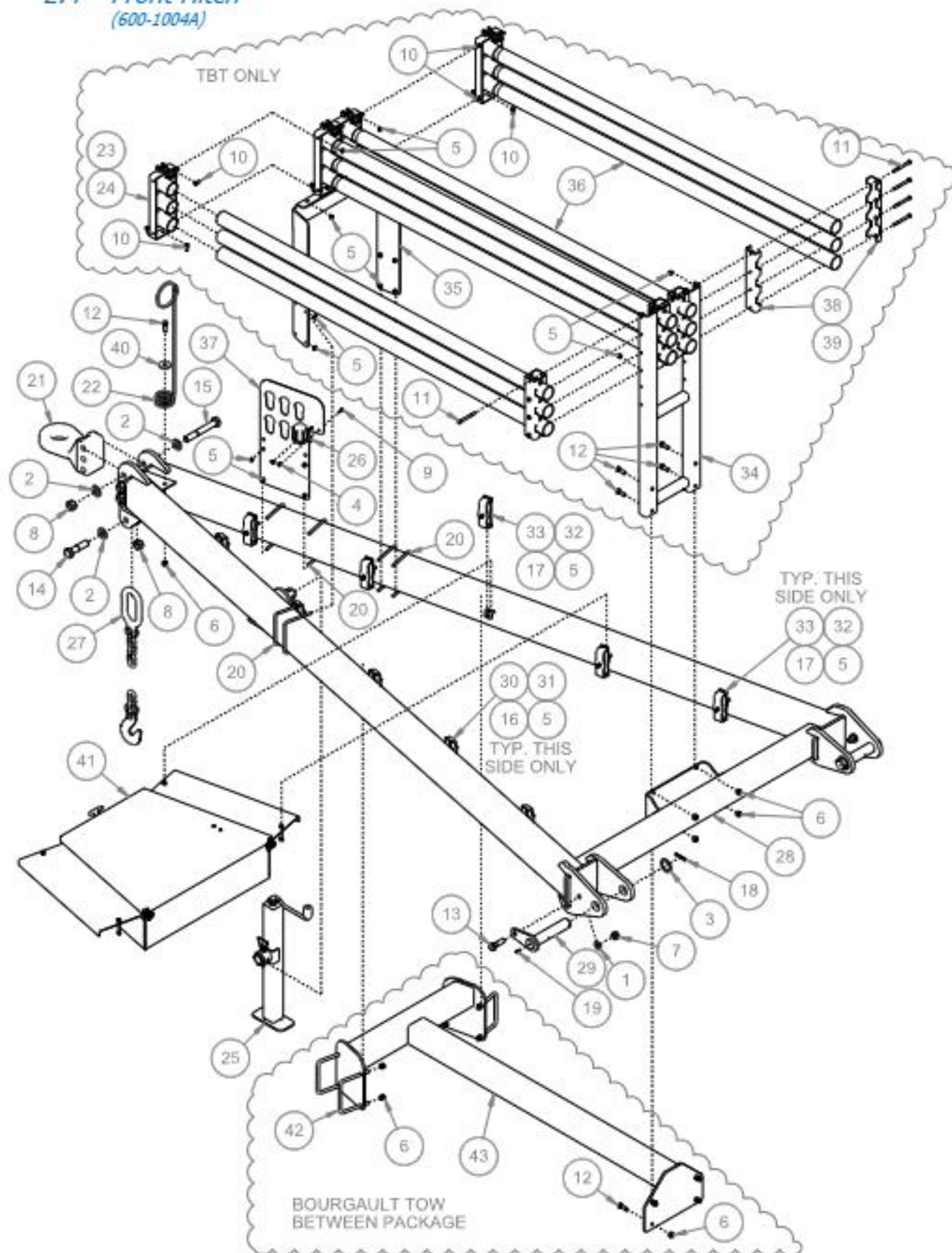
1. REMOVE DUAL AXLE MOUNT ASSEMBLIES
2. DETACH WIRING @ MOUNTING TABS (9) (A) & (B).
3. PREPARE BEAM (9) BY REPOSITIONING MOUNTING TABS (9) (A) & (B) 7.5" INWARD (TOWARD CENTER).
4. REMOVE PAINT FROM BEAM AS-NEEDED FOR WELDING GUSSETS ONTO IT.
5. POSITION THE BOTTOM OF GUSSETS (12) & (13) CENTER ON THE LEGS. WELD ALL AROUND.
6. TOUCH UP PAINT AS NEEDED.
7. RE-ATTACH WIRING TO REPOSITIONED TABS.
8. ASSEMBLE REMAINING ITEMS AS SHOWN.



Parts Manual

<i>Single Big Wheels Rear Beam Retrofit</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	2
2	118-042	STOVER NUT, 3/4 UNC GR C PLATED	12
3	125-169	BOLT, 5/8 X 5-1/2 UNC GR5 PLATED	2
4	125-748	BOLT, 3/4 X 3.5 UNC GR9 PLATED	12
5	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	1
6	212-071	TENSION BUSHING, 4" ID X 4-1/2" OD X 4" LG	2
7	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° <i>(REMOVE INNER TUBE STIFFENER/INSERT)</i>	1
8	212-591A	15,000 lb SPINDLE & TIRE ASSY ("SINGLE LARGE") <i>(SEE SEC. 3.4)</i>	2
9	600-1040	REAR BEAM	1
10	600-1361	LARGE WHEEL SPINDLE MOUNT, LH	1
11	600-1362	LARGE WHEEL SPINDLE MOUNT, RH	1
12	600-1363	SINGLE-TIRE RETROFIT BEAM GUSSET, LH	1
13	600-1364	SINGLE-TIRE RETROFIT BEAM GUSSET, RH	1
14	600-1367	WASHER, 3/4" HEAVY	24

2.4 Front Hitch (600-1004A)



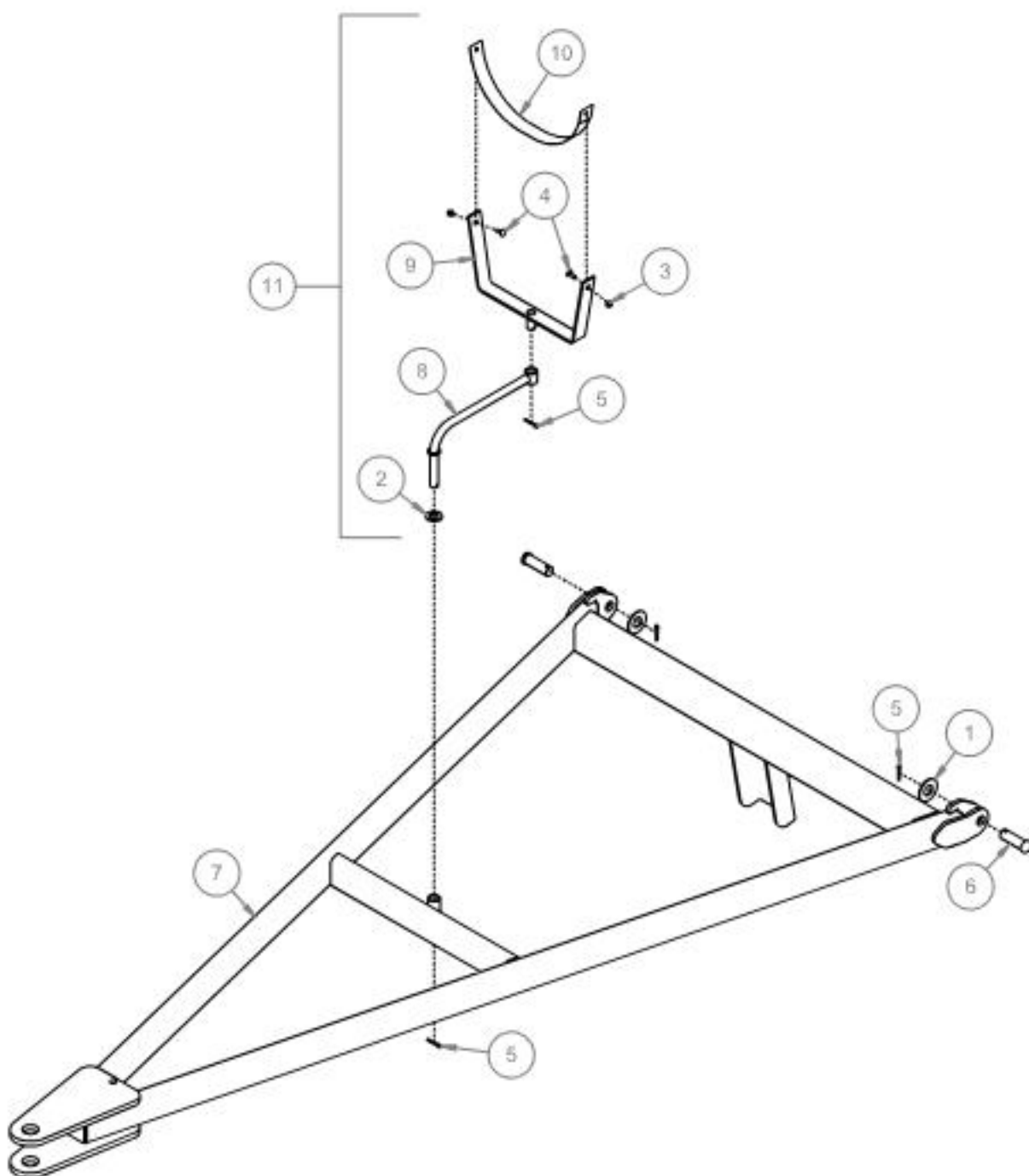
Parts Manual

Front Hitch

ITEM NO.	PART NO.	DESCRIPTION	TBH QTY	TBT 12 RUN	TBT 16 RUN
1	102-008	WASHER, 3/4 PLATED SAE	2	2	2
2	102-010	WASHER, 1 PLATED SAE	7	7	7
3	105-002	WASHER, 1.812" ID x 2.5" OD x .109 THK YZ	2	2	2
4	114-001	LOCKNUT, 1/4" UNC NYL INS GR 2 YZ	2	2	2
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	14	43	51
6	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1	5	5
7	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	2	2	2
8	119-042	STOVER NUT, 1"-14 UNS GR C PLATED & WAX	4	4	4
9	125-001	BOLT, 1/4 X 3/4 UNC GR5 PLATED	2	2	2
10	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	-	10	10
11	125-063	BOLT, 3/8 X 3-3/4 UNC GR5 PLATED	-	16	24
12	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	1	5	5
13	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	2	2	2
14	140-246	BOLT, 1"-14 X 4 UNS GR8 PLATED	1	1	1
15	140-477	BOLT, 1"-14 X 7 UNS GR9 PLATED	3	3	3
16	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	5	5	5
17	145-059	CARR. BOLT, 3/8 X 2-1/2 UNC GR5 PLATED	5	-	-
18	170-028	ROLL PIN, 3/8 X 2-1/2 PLATED	2	2	2
19	180-004	GREASE FITTING, 1/8 NPT, STRAIGHT	2	2	2
20	185-006	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	2	6	6
21	212-029	HITCH BASE - CAT 4 -5, CTD P/N PP53XL	1	1	1
22	212-030	PIGTAIL HOSE HOLDER	1	1	1
23	212-034	SS Quick Conn 4 x 2.5", Agri Stainless P/N QCSS42.5	-	-	4
24	212-035	SS Quick Conn 3 x 2.5", Agri Stainless P/N QCSS32.5	-	4	-
25	212-074	JACK, 5000LB TW, 2-1/4" SQUARE PIPE	1	1	1
26	212-270	ELECTRICAL PLUG HOLDER	1	1	1
27	212-350	CHAIN, SAFETY, 61,000 lb, 5/8" x 50" lg	1	1	1
28	600-1004	HITCH	1	1	1
29	600-1026	PIN, TOW HITCH	2	2	2
30	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	5	5	5
31	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	5	5	5
32	600-1066	HOSE CLAMP, 5" WIDE (3/4" HOSE X 4)	5	-	-
33	600-1068	LOWER PLATE, 5" WIDE (3/4" HOSE X 4)	5	-	-
34	600-1078	TOW BET 2-1/2" SEED TUBE MNT, BACK	-	1	1
35	600-1080	AIR PACK BRACKET, FRONT HITCH	-	1	1
36	600-1082	SEED TUBE, 2-1/2", TOW BETWEEN	-	12	16
37	600-1180	HYDRAULIC HOSE HOLDER	1	1	1
38	600-1186	TRIPLE PIPE CLAMP	-	8	-
39	600-1188	FOUR PIPE CLAMP	-	-	8
40	600-1328	PIGTAIL HOSE HOLDER WASHER	1	1	1
41	600-2020	TOOLBOX (OPTIONAL)	1	1	1
BOURGAULT TOW BETWEEN (TBT) PACKAGE			QTY		
6	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ		12	
12	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED		4	
42	185-013	U-BOLT, 1/2 X 6-1/16 W X 5-1/2 H, UNC GR5 PL		4	
43	600-3025	BOURGAULT 7000 SERIES TOWER MOUNT		1	

2.5 Rear Hitches (TBH)

2.5.1 TBH Hitch, Standard (600-1049)

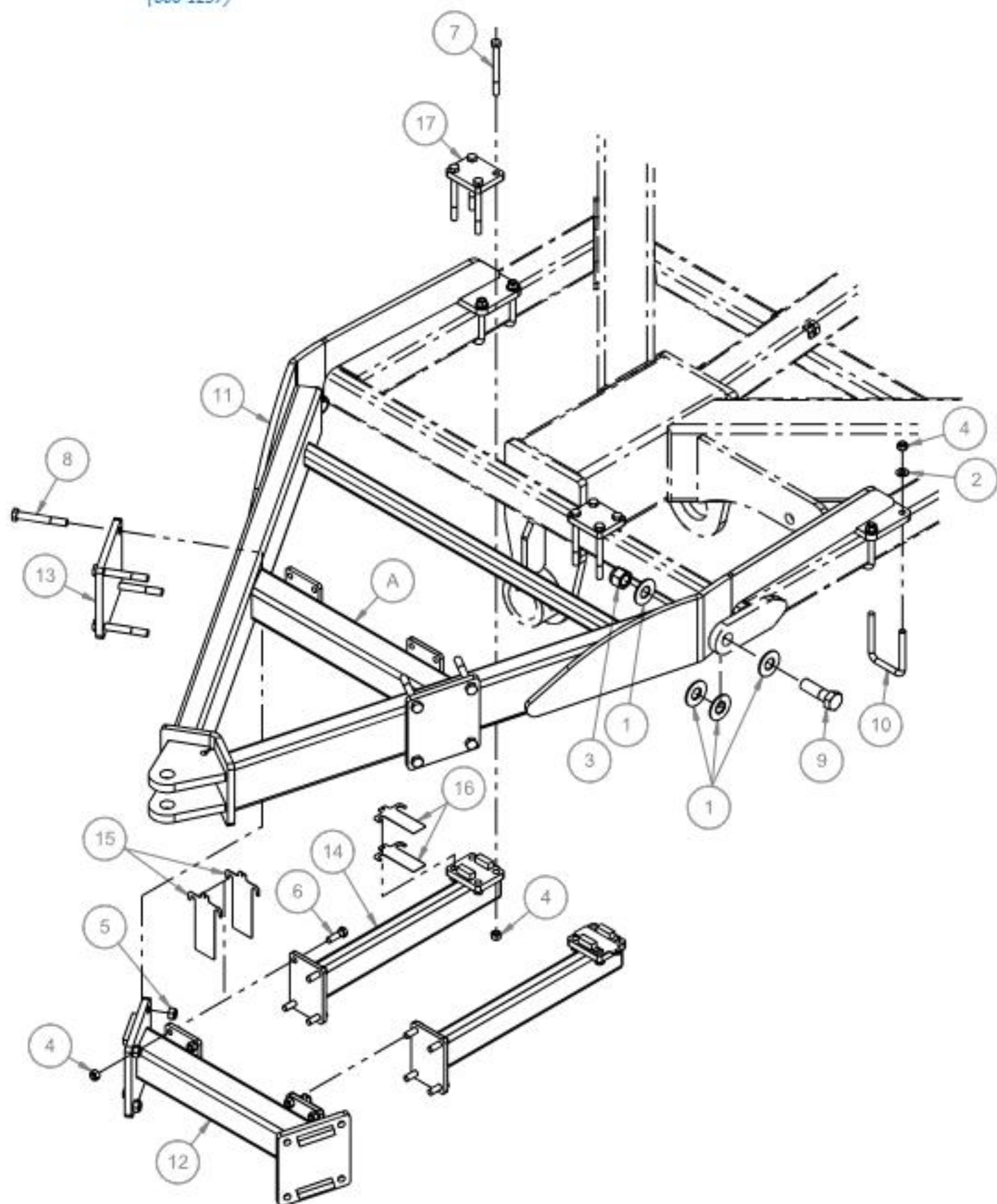


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Tow Behind Hitch

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER 1-1/4 PLATED USS	2
2	102-010	WASHER 1 PLATED SAE	1
3	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	2
4	145-052	CARR. BOLT, 3/8 X 1 UNC GR5 PLATED	2
5	170-079	COTTER PIN, 1/4 X 2 PLATED	4
6	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	2
7	600-1050	TOW BEHIND HITCH, HINGED	1
8	600-1234	SUPPORT ARM	1
9	600-1236	SADDLE, TBH HOSE	1
10	600-1237	HOSE SADDLE NYLON STRAP	1
11	600-3027	KIT, TBH HOSE SADDLE	1

2.5.2 TBH Hitch, Wagon Style (600-1257)



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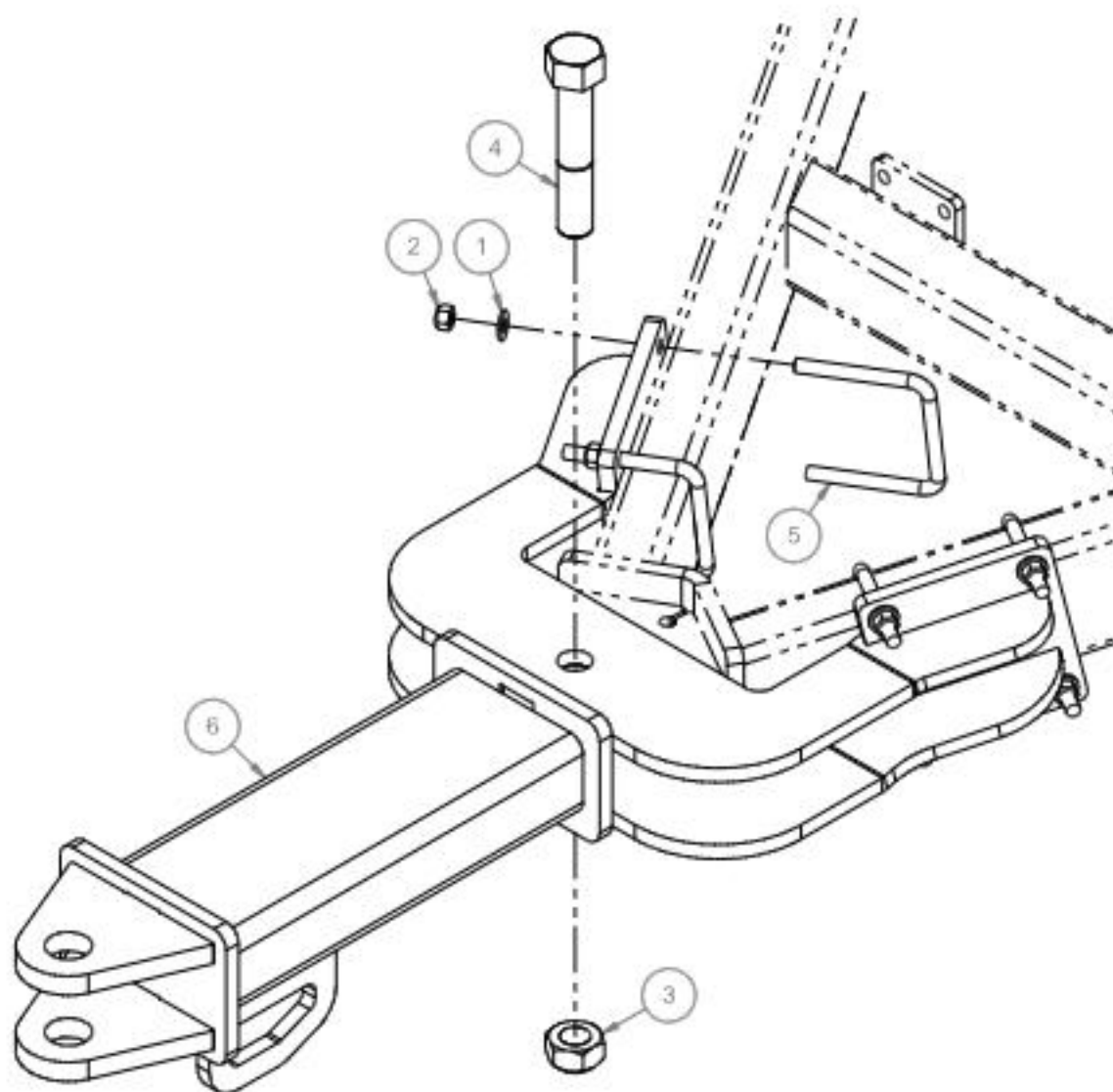
Previous versions of 600-1258 TBH HITCH, WAGON STYLE did not have beam "A" shown in the diagram.

<i>Tow Behind Hitch, Wagon Style</i>				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY WITH "A"	QTY W/O "A"
1	101-012	WASHER 1-1/4 PLATED USS	8	8
2	102-007	WASHER 5/8 PLATED SAE	8	8
3	115-037	LOCKNUT, 1-1/4" UNF NYL INS GR 8 YZ	2	2
4	118-007	STOVER NUT, 5/8" UNC GR 2 PLATED	24	24
5	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	N/A	8
6	125-157	BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	8	8
7	125-173	BOLT, 5/8 X 6-1/2 UNC GR5 PLATED	8	8
8	125-194	BOLT, 3/4 X 5-1/2 UNC GR5 PLATED	N/A	8
9	140-314	BOLT, 1-1/4 X 4 UNF GR8 PLATED	2	2
10	185-004	U-BOLT, 5/8 X 4-1/16 W X 5-1/2 H, UNC GR5 PL	4	4
11	600-1258	TBH HITCH, WAGON STYLE	1	1
12	600-3041	CROSS MEMBER SUBFRAME	N/A	1
13	600-3041-03	PINCH PLATE	N/A	2
14	600-3043	SUPPORT BEAM	2	2
15	600-3044	SUPPORT BEAM HORIZ DIST SHIM, 16 GA.	4	4
16	600-3045	SUPPORT BEAM VERT DIST. SHIM, 16 GA.	4	4
17	600-3048-01	SUPPORT BEAM SANDWICH PL, PAINTED	2	2

For hitches without beam "A", 600-3040 KIT, WAGON-STYLE HITCH RETROFIT can be added, containing the following:

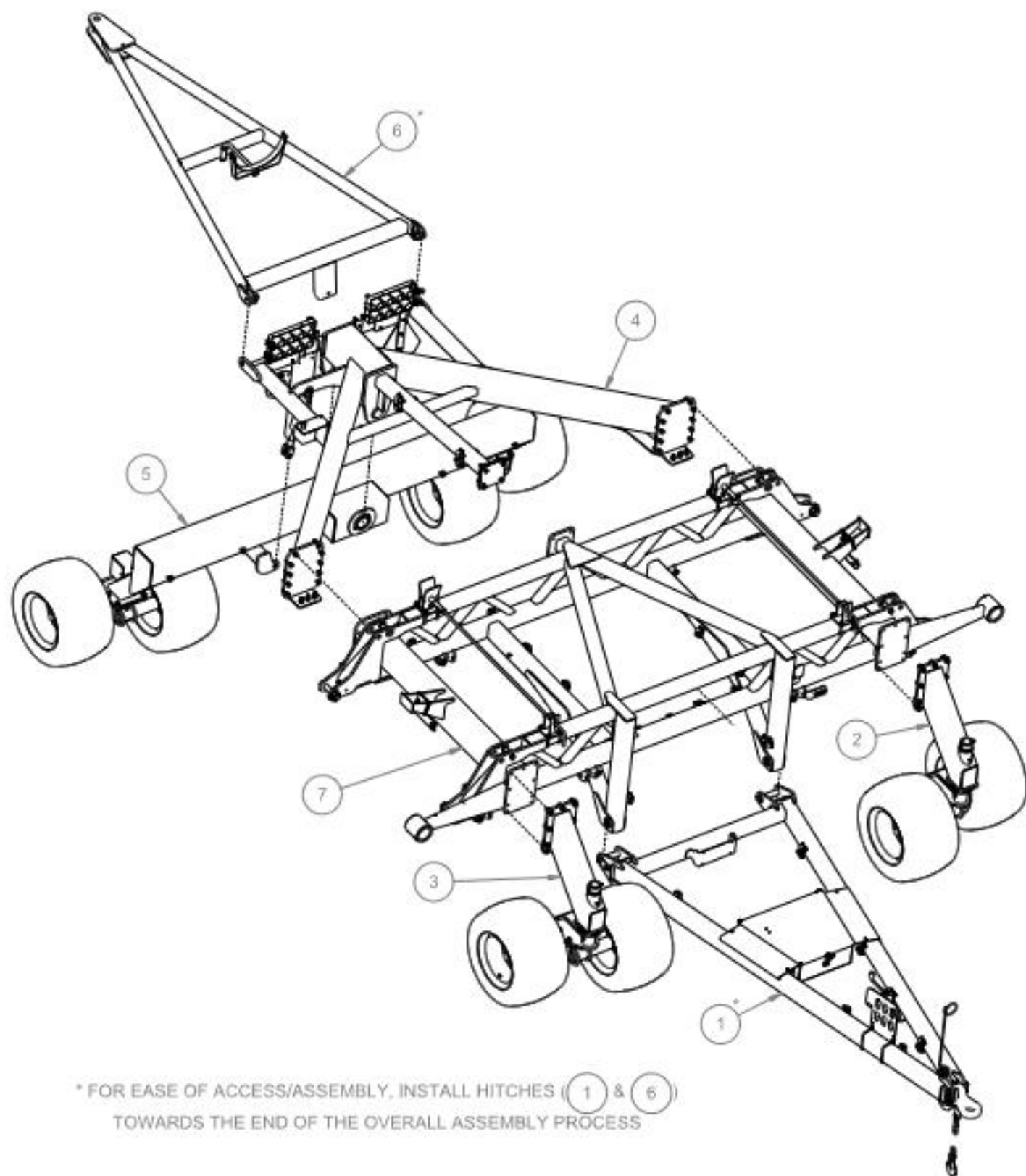
<i>600-3040 KIT, WAGON-STYLE HITCH RETROFIT</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
4	118-007	STOVER NUT, 5/8 UNC GR 2 PLATED	16
5	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	8
6	125-157	BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	8
7	125-173	BOLT, 5/8 X 6-1/2 UNC GR5 PLATED	8
8	125-194	BOLT, 3/4 X 5-1/2 UNC GR5 PLATED	8
12	600-3041	CROSS MEMBER SUBFRAME	1
13	600-3041-03	PINCH PLATE	2
14	600-3043	SUPPORT BEAM	2
15	600-3044	SUPPORT BEAM HORIZ DIST SHIM, 16 GA.	4
16	600-3045	SUPPORT BEAM VERT DIST. SHIM, 16 GA.	4
17	600-3048-01	SUPPORT BEAM SANDWICH PL, PAINTED	2

2.5.3 TBH Hitch Extension, Wagon Style (600-1259A)



<i>TBH Hitch Extension, Wagon Style</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-007	WASHER, 5/8 PLATED SAE	8
2	118-007	STOVER NUT, 5/8 UNC GR 2 PLATED	8
3	118-014	STOVER NUT, 1-1/2 UNC GR 2 PLATED	1
4	140-480	BOLT, 1-1/2 X 8 UNC GR8 PLATED	1
5	185-029	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	4
6	600-1259	TBH HITCH EXTENSION, WAGON STYLE	1

2.6 Assembly Fitments #1: Center Wagon



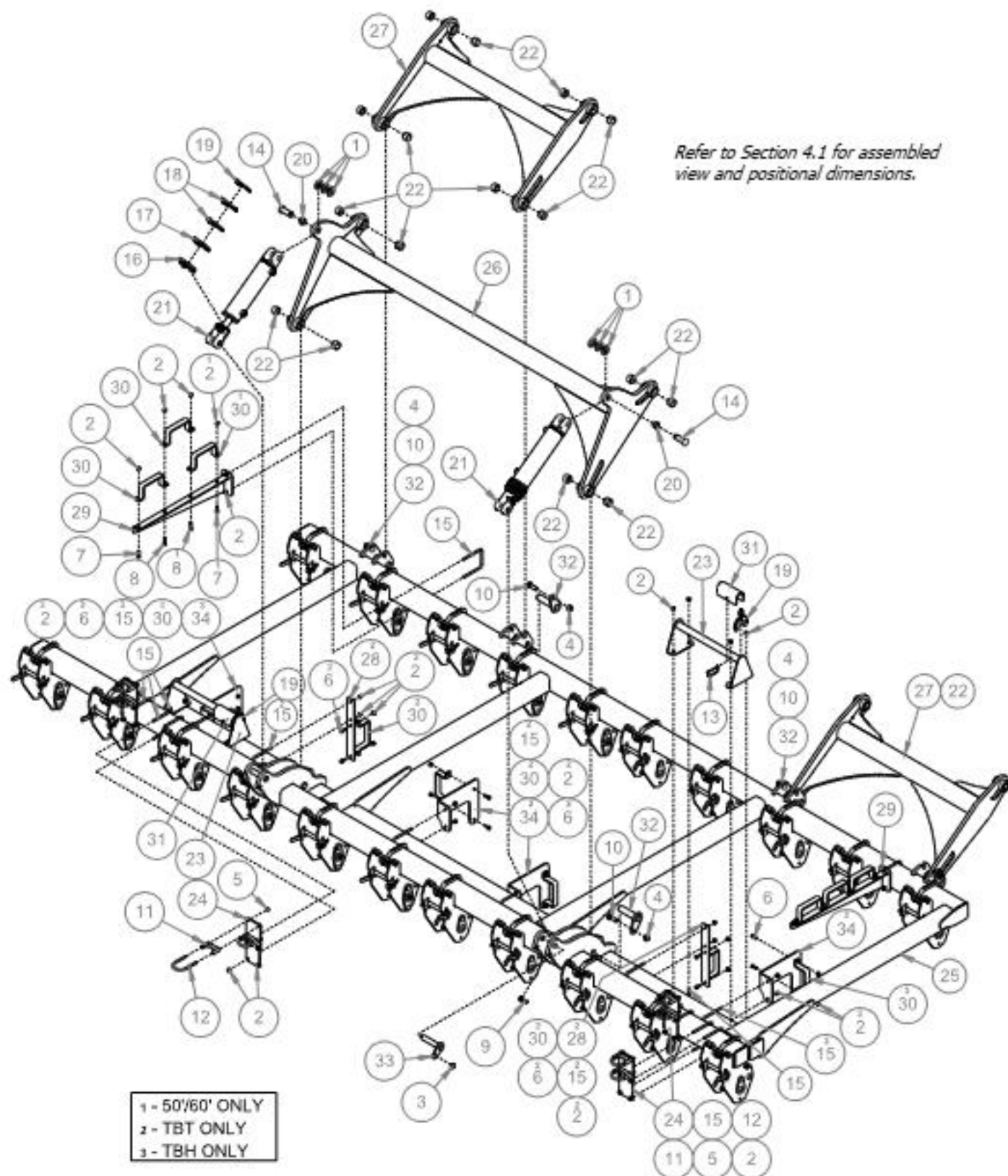
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<i>Assembly Fitments #1: Center Wagon</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	600-1004A	FRONT HITCH ASSY (SEC. 2.4)	1
2	600-1008A	FRONT WHEEL CASTER, HEAVY WALKING DUAL, LH ASSY (SHOWN – SEE SUB-ASSY, SEC. 3.5.1)	1
	600-1350A	FRONT WHEEL CASTER, LARGE WHEEL, LH ASSY (NOT SHOWN – SEE SUB-ASSY, SEC. 3.5.5)	
3	600-1008A	FRONT WHEEL CASTER, HEAVY WALKING DUAL, RH ASSY (SHOWN – SEC. 3.5.1)	1
	600-1350A	FRONT WHEEL CASTER, LARGE WHEEL, RH ASSY (NOT SHOWN – SEC. 3.5.5)	
4	600-1038A	REAR FRAME ASSY (SEC. 2.2)	1
5	600-1040A	REAR BEAM ASSY, WALKING DUALS (SEC. 2.3.1)	1
	600-1368A	REAR BEAM ASSY, LARGE WHEELS (SEC. 2.3.2)	
6	600-1049	TOW BEHIND (TBH) HITCH, HINGED ASSY (SHOWN – SEC. 2.5.1)	1
	600-1257	TBH HITCH, WAGON STYLE ASSY (NOT SHOWN – SEC. 2.5.2)	
	600-1259A	TBH WAGON STYLE HITCH EXTENSION ASSY (NOT SHOWN – SEC. 2.5.3)	
7	600-1104A	CENTER FRAME ASSY (SEC. 2.1)	1

2.7 Subframes & Torque Tubes

2.7.1 Center Subframe (600-1140A)

Refer to Section 4.1 for assembled view and positional dimensions.



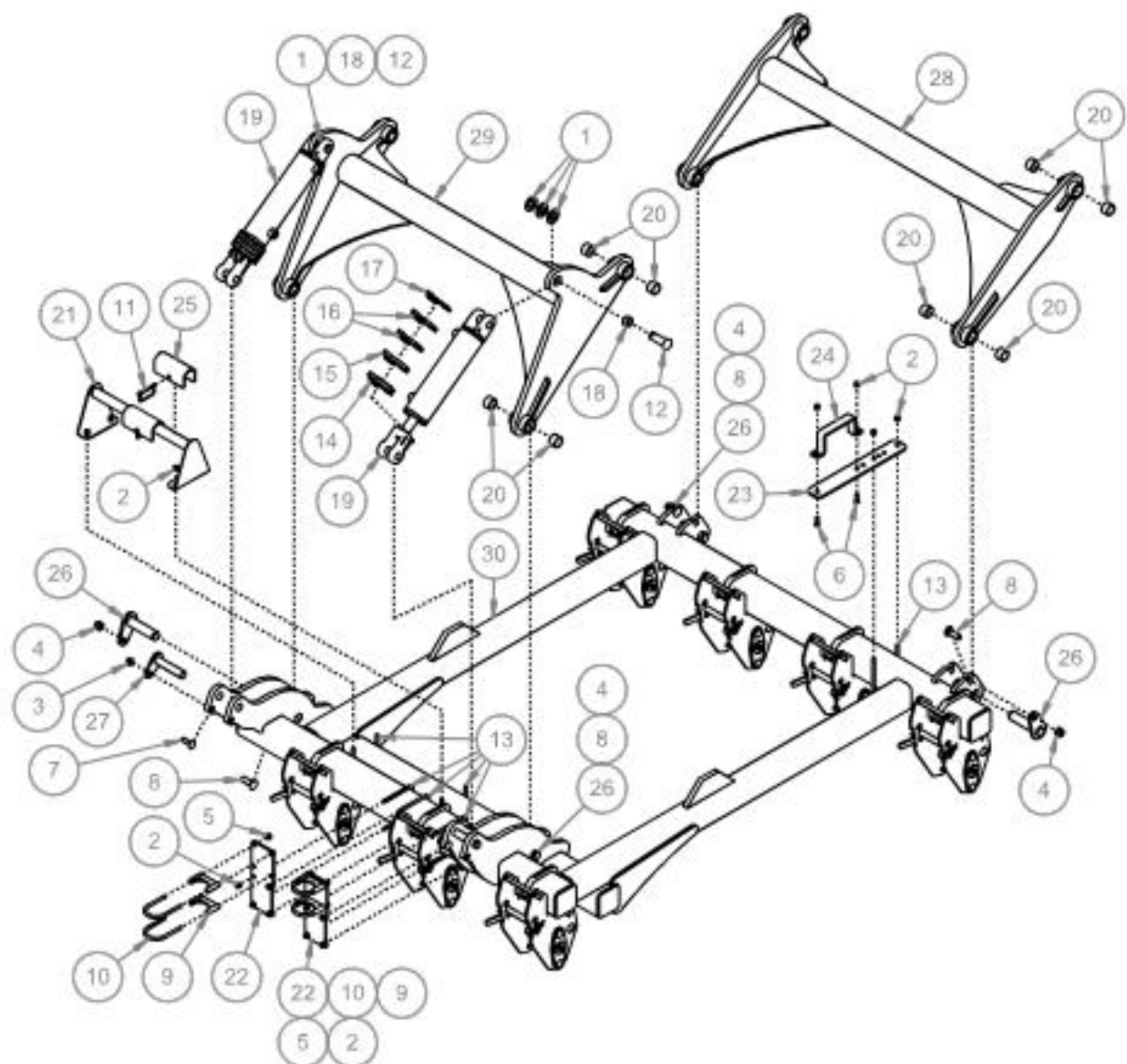
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Center Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	30'/40' QTY	50'/60' QTY
1	102-010	WASHER, 1 PLATED SAE	6	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	58	60
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	6	6
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	16	16
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	12	12
7	125-053	BOLT, 3/8 X 1-1/4 UNC GR5 PLATED	4	4
8	125-054	BOLT, 3/8 X 1-1/2 UNC GR5 PLATED	2	4
9	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	2
10	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	6	6
11	165-006	MUFFLER CLAMP, 2.625" ID	8	8
12	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	8	8
13	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2	2
14	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2	2
15	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	20	20
16	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2	2
17	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2	2
18	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4	4
19	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	4	4
20	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2	2
21	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	2	2
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)		
22	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	24	24
23	600-1072	SPACER STORAGE FRAME	2	2
24	600-1076	BRACKET, HEADER TOWER UPRIGHT	4	4
25	600-1140A	CENTER SUBFRAME ASSY <i>(REFER TO SEPARATE DRAWING)</i>	1	1
26	600-1144	TORQUE TUBE, CENTER, BACK (85 7/8")	1	1
27	600-1148	TORQUE TUBE, NARROW FRONT (42 3/4")	2	2
28	600-1170	BRACKET, AIR PACK	2	2
29	600-1176	PRIMARY HOSE BRACKET	2	2
30	600-1178	HOSE STRAP	10	12
31	600-1184	SAFETY STOP	2	2
32	600-1222	PIN, 1-1/4" DIA	6	6
33	600-1224	PIN, 1" DIA	2	2
34	600-3023	ANGLE BRACKET, AIR PACK	4	4

2.7.2 30' LH Subframe (600-3014A)

Refer to Section 4.2 for assembled
view and positional dimensions.



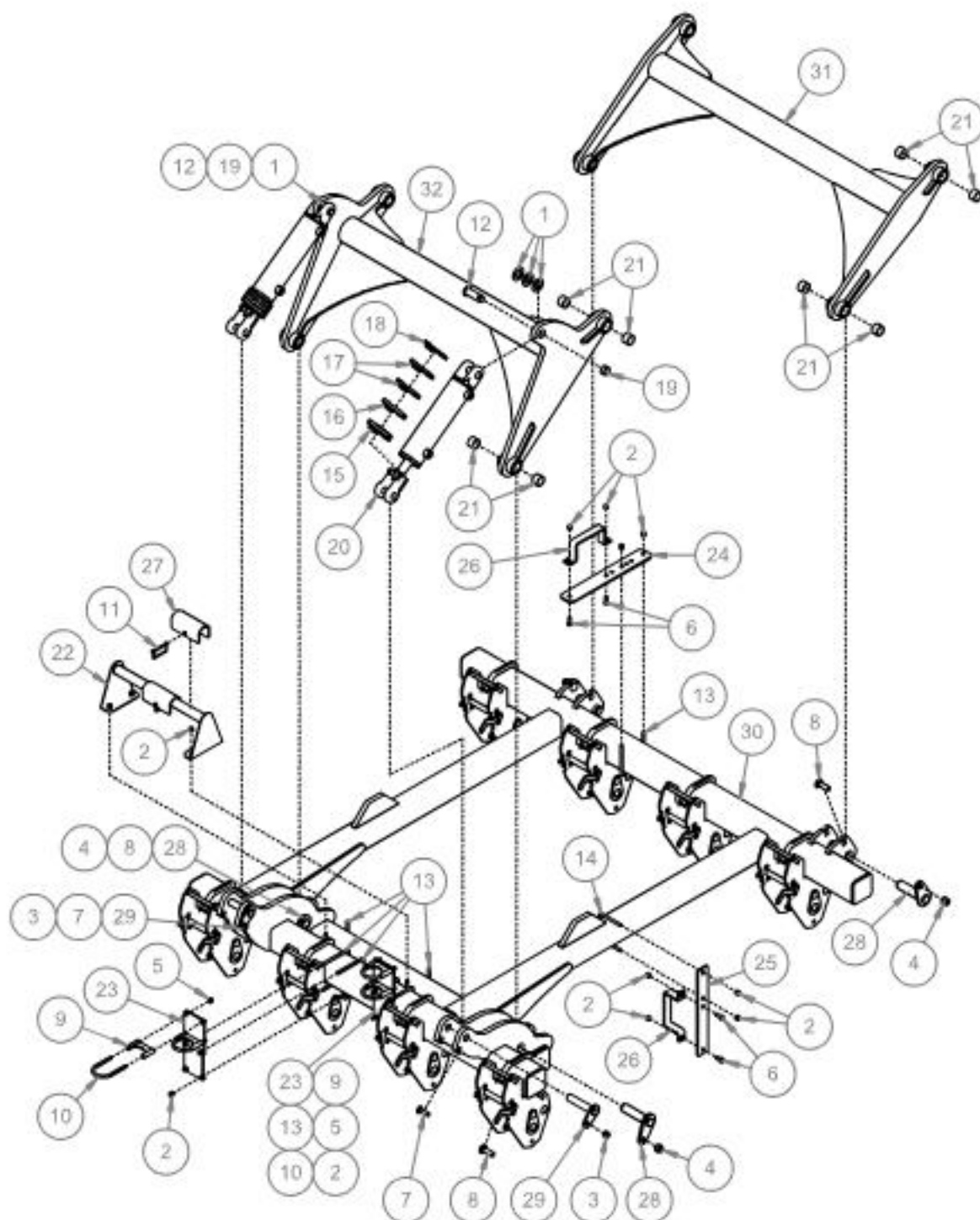
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30' LH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	16
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	2
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	7
14	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2
15	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2
16	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4
17	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2
18	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2
19	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	2
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	
20	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
21	600-1072	SPACER STORAGE FRAME	1
22	600-1076	BRACKET, HEADER TOWER UPRIGHT	2
23	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
24	600-1178	HOSE STRAP	1
25	600-1184	SAFETY STOP	2
26	600-1222	PIN, 1-1/4" DIA	4
27	600-1224	PIN, 1" DIA	2
28	600-3005	TORQUE TUBE, 30' WING, FRONT (53 7/8")	1
29	600-3007	TORQUE TUBE, 30' WING, BACK (46 3/4")	1
30	600-3014A	30' LH SUBFRAME ASSY (REFER TO SEPARATE DRAWING)	1

2.7.3 30' RH Subframe (600-3003A)

Refer to Section 4.2 for assembled
view and positional dimensions.



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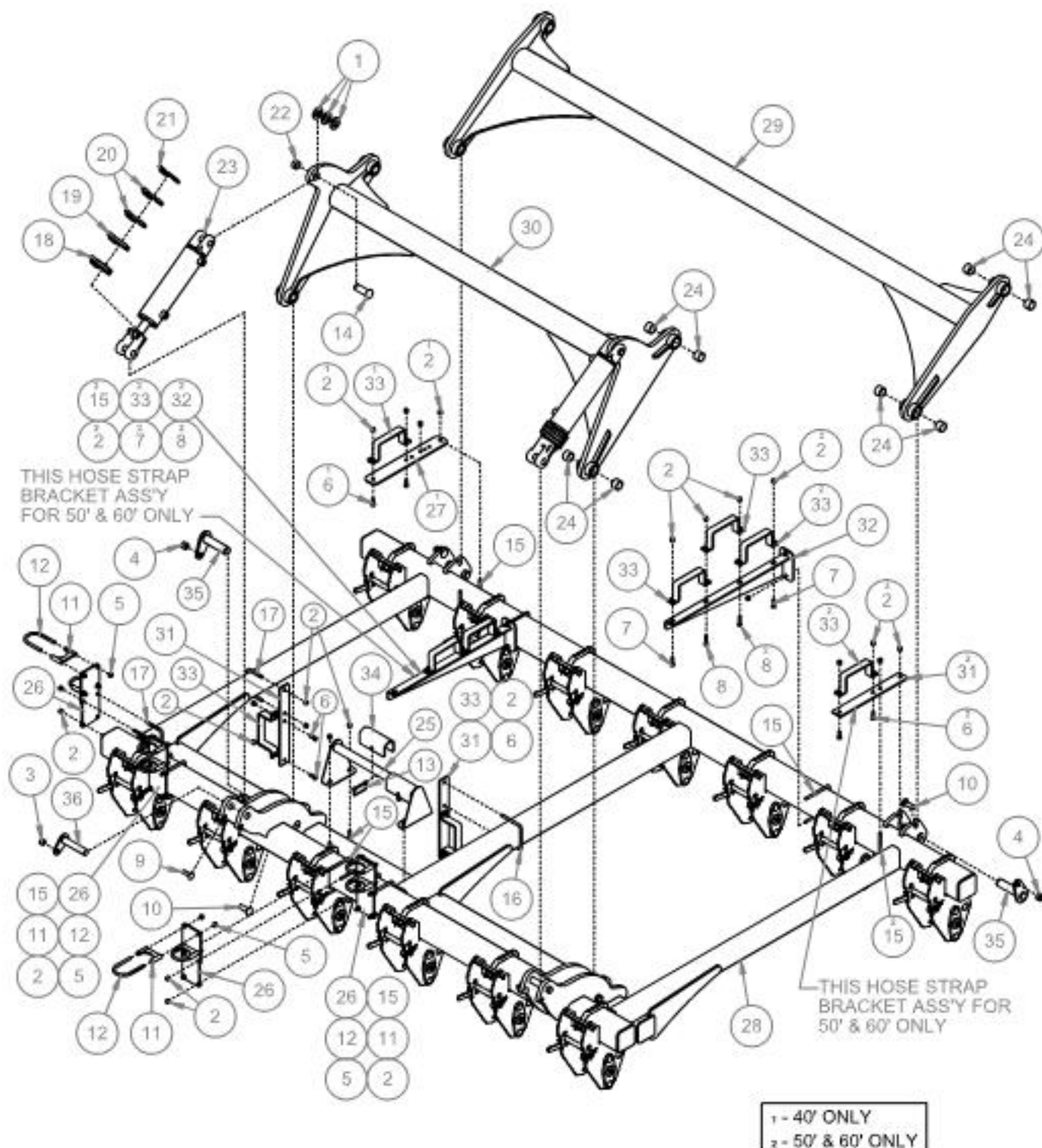
30' RH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	20
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	4
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	7
14	185-003	U-BOLT, 3/8 X 4-1/16 W X 4 H, UNC GR5 PLATED	1
15	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2
16	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2
17	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4
18	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2
19	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2
20	212-161 212-405	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i> HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	2
21	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
22	600-1072	SPACER STORAGE FRAME	1
23	600-1076	BRACKET, HEADER TOWER UPRIGHT	2
24	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
25	600-1170	BRACKET, AIR PACK	1
26	600-1178	HOSE STRAP	2
27	600-1184	SAFETY STOP	2
28	600-1222	PIN, 1-1/4" DIA	4
29	600-1224	PIN, 1" DIA	2
30	600-3003A	30' RH SUBFRAME ASSY (REFER TO SEPARATE DRAWING)	1
31	600-3005	TORQUE TUBE, 30' WING, FRONT (53 7/8")	1
32	600-3007	TORQUE TUBE, 30' WING, BACK (46 3/4")	1

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2.7.4 40' & Inner 50'/60' LH Subframe (600-1098A)

Refer to Section 4.3 & 4.5 for assembled view and positional dimensions.



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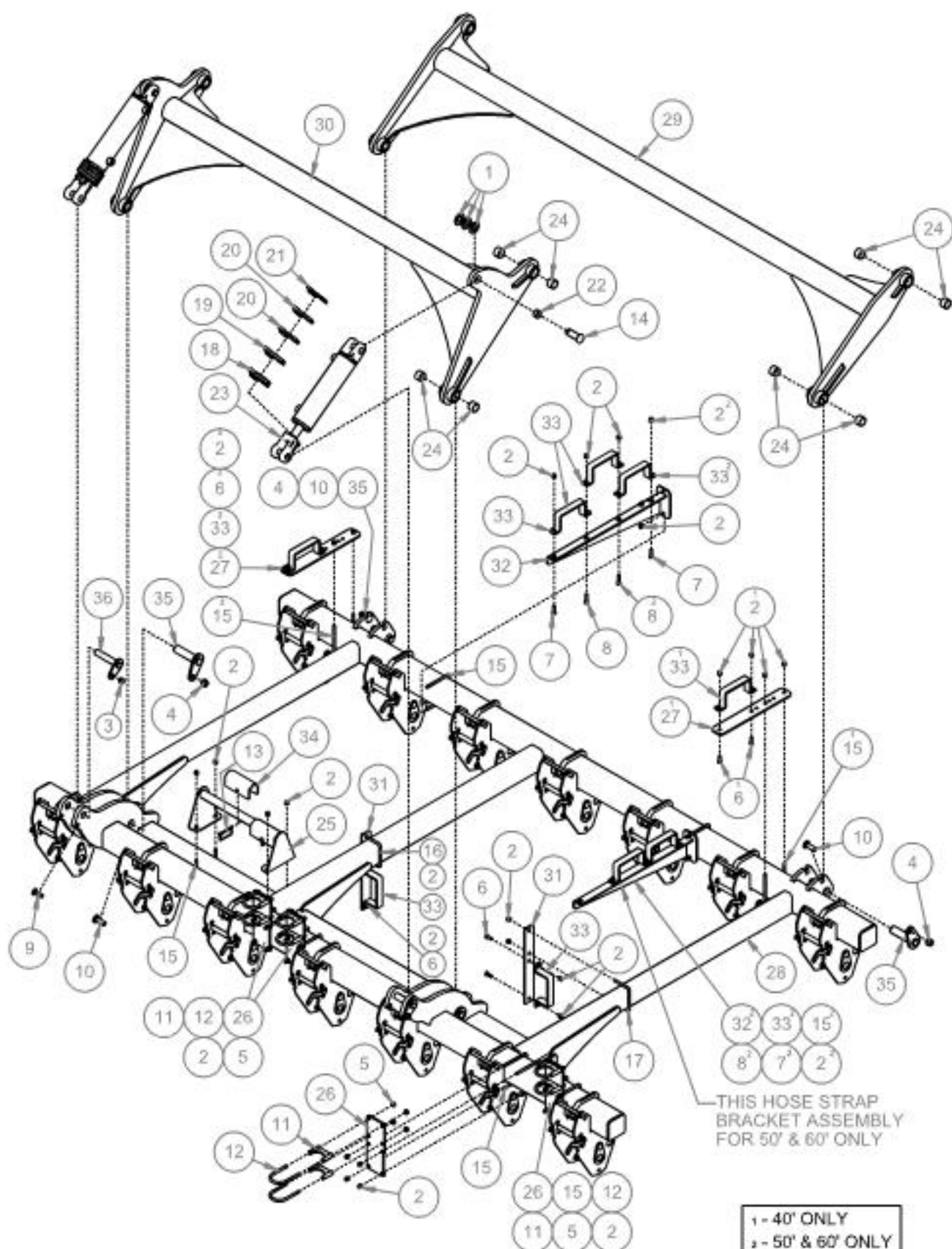
40' & Inner 50'/60' LH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	40' QTY	50'/60' QTY
1	102-010	WASHER, 1 PLATED SAE	6	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	37	47
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	16	16
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	6	8
7	125-053	BOLT, 3/8 X 1-1/4 UNC GR5 PLATED	2	4
8	125-054	BOLT, 3/8 X 1-1/2 UNC GR5 PLATED	1	3
9	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	2
10	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4	4
11	165-006	MUFFLER CLAMP, 2.625" ID	8	8
12	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	8	8
13	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2	2
14	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2	2
15	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	10	12
16	185-003	U-BOLT, 3/8 X 4-1/16 W X 4 H, UNC GR5 PLATED	1	1
17	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	3	3
18	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2	2
19	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2	2
20	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4	4
21	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2	2
22	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2	2
23	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	2	2
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)		
24	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16	16
25	600-1072	SPACER STORAGE FRAME	1	1
26	600-1076	BRACKET, HEADER TOWER UPRIGHT	4	4
27	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1	1
28	600-1098A	SUBFRAME, LH, INNER WING ASSY <i>(REFER TO SEPARATE DRAWING)</i>	1	1
29	600-1134	TORQUE TUBE, INNER WING, FRONT (104 1/8")	1	1
30	600-1150	TORQUE TUBE, LH, INNER WING, BACK (69 5/8")	1	1
31	600-1170	BRACKET, AIR PACK	2	3
32	600-1176	PRIMARY HOSE BRACKET	1	2
33	600-1178	HOSE STRAP	5	9
34	600-1184	SAFETY STOP	2	2
35	600-1222	PIN, 1-1/4" DIA	4	4
36	600-1224	PIN, 1" DIA	2	2

Parts Manual

2.7.5 40' & Inner 50'/60' RH Subframe (600-1094A)

Refer to Section 4.4 & 4.6 for assembled view and positional dimensions.



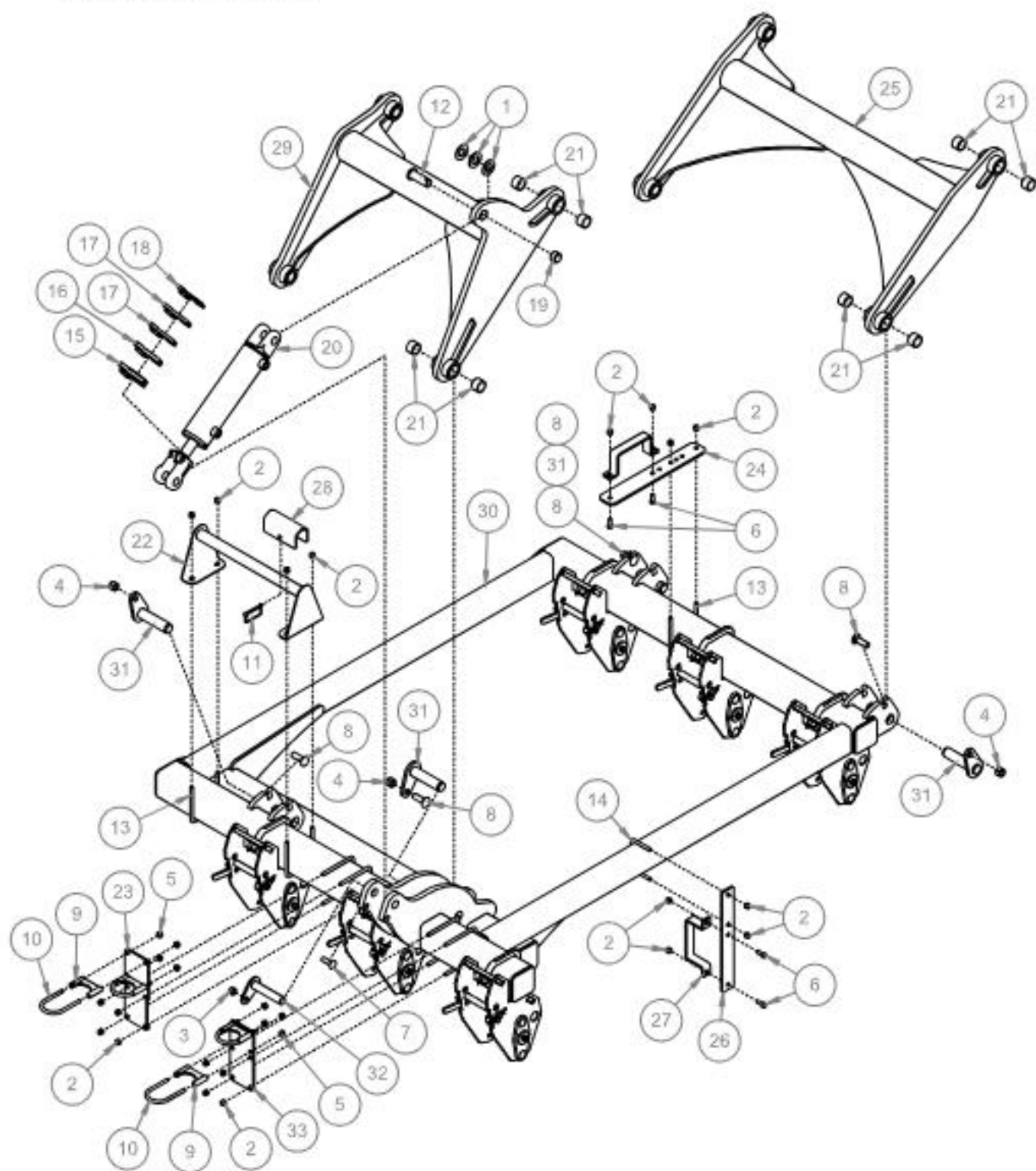
Parts Manual

40' & Inner 50'/60' RH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	40' QTY	50'/60' QTY
1	102-010	WASHER, 1 PLATED SAE	6	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	37	43
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	16	16
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	6	6
7	125-053	BOLT, 3/8 X 1-1/4 UNC GR5 PLATED	2	4
8	125-054	BOLT, 3/8 X 1-1/2 UNC GR5 PLATED	1	3
9	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	2
10	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4	4
11	165-006	MUFFLER CLAMP, 2.625" ID	8	8
12	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	8	8
13	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2	2
14	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2	2
15	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	12	13
16	185-003	U-BOLT, 3/8 X 4-1/16 W X 4 H, UNC GR5 PLATED	1	1
17	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	1	1
18	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2	2
19	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2	2
20	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4	4
21	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2	2
22	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2	2
23	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	2	2
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)		
24	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16	16
25	600-1072	SPACER STORAGE FRAME	1	1
26	600-1076	BRACKET, HEADER TOWER UPRIGHT	4	4
27	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1	1
28	600-1094A	SUBFRAME, RH, INNER WING ASSY <i>(REFER TO SEPARATE DRAWING)</i>	1	1
29	600-1134	TORQUE TUBE, INNER WING, FRONT (104 1/8")	1	1
30	600-1136	TORQUE TUBE, RH, INNER WING, BACK (78 3/4")	1	1
31	600-1170	BRACKET, AIR PACK	2	2
32	600-1176	PRIMARY HOSE BRACKET	1	2
33	600-1178	HOSE STRAP	5	8
34	600-1184	SAFETY STOP	2	2
35	600-1222	PIN, 1-1/4" DIA	4	4
36	600-1224	PIN, 1" DIA	2	2

2.7.6 50' Outer LH Subframe (600-1214A)

Refer to Section 4.7 for assembled view and positional dimensions.



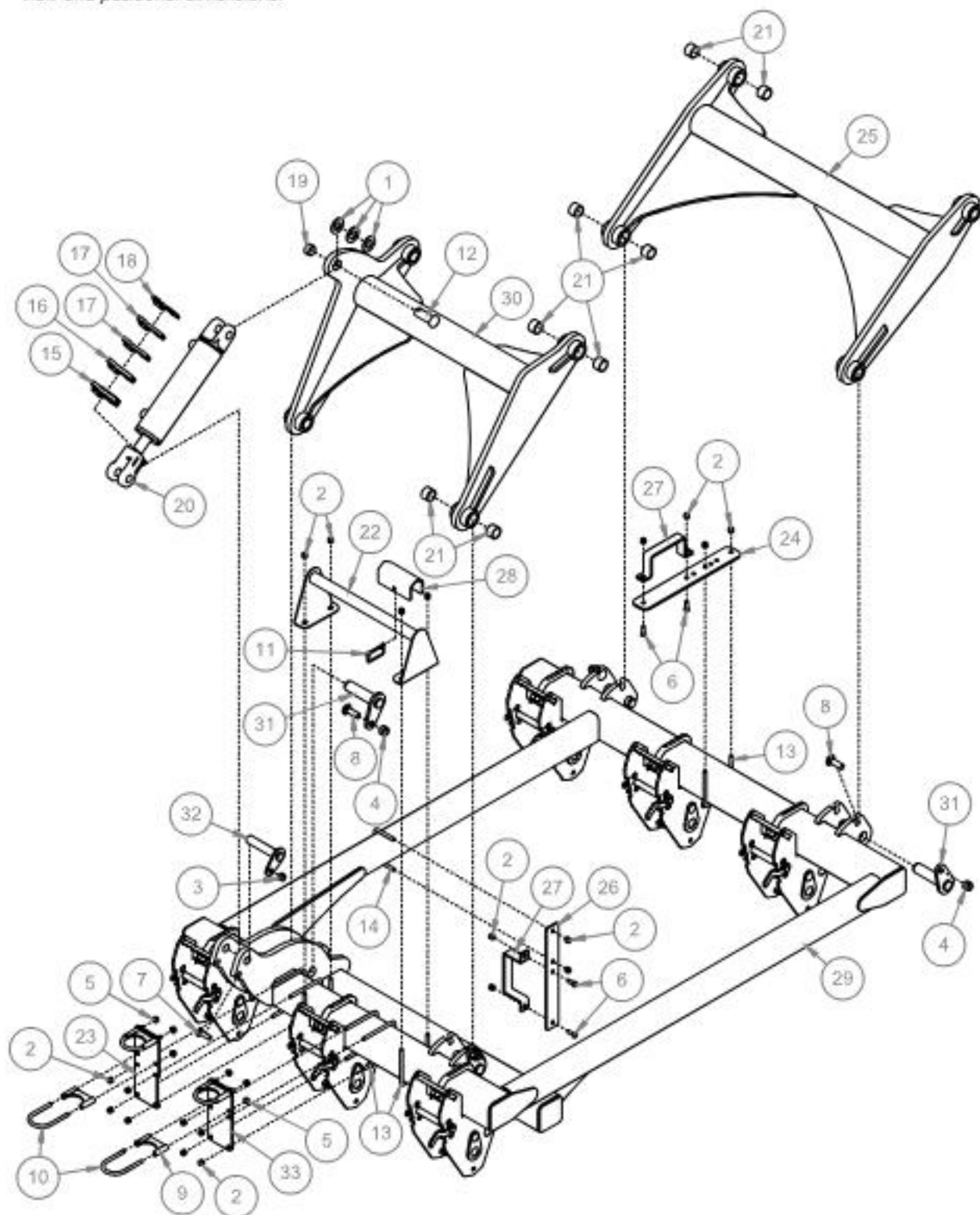
Parts Manual

50' Outer LH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	3
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	20
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	4
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	1
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	1
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	1
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	7
14	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	1
15	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	1
16	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	1
17	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	2
18	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	1
19	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	1
20	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	1
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	
21	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
22	600-1072	SPACER STORAGE FRAME	1
23	600-1076	BRACKET, HEADER TOWER UPRIGHT	1
24	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
25	600-1148	TORQUE TUBE, NARROW FRONT (42 3/4")	1
26	600-1170	BRACKET, AIR PACK	1
27	600-1178	HOSE STRAP	2
28	600-1184	SAFETY STOP	1
29	600-1210	TORQUE TUBE, LH, 50' OUTER WING, BACK (31")	1
30	600-1214A	50' OUTER SUBFRAME ASSY, LH (REFER TO SEPARATE DRAWING)	1
31	600-1222	PIN, 1-1/4" DIA	4
32	600-1224	PIN, 1" DIA	1
33	600-1326	HEADER TOWER UPRIGHT, JOHN DEERE	1

2.7.7 50' Outer RH Subframe (600-1205A)

Refer to Section 4.7 for assembled
view and positional dimensions.



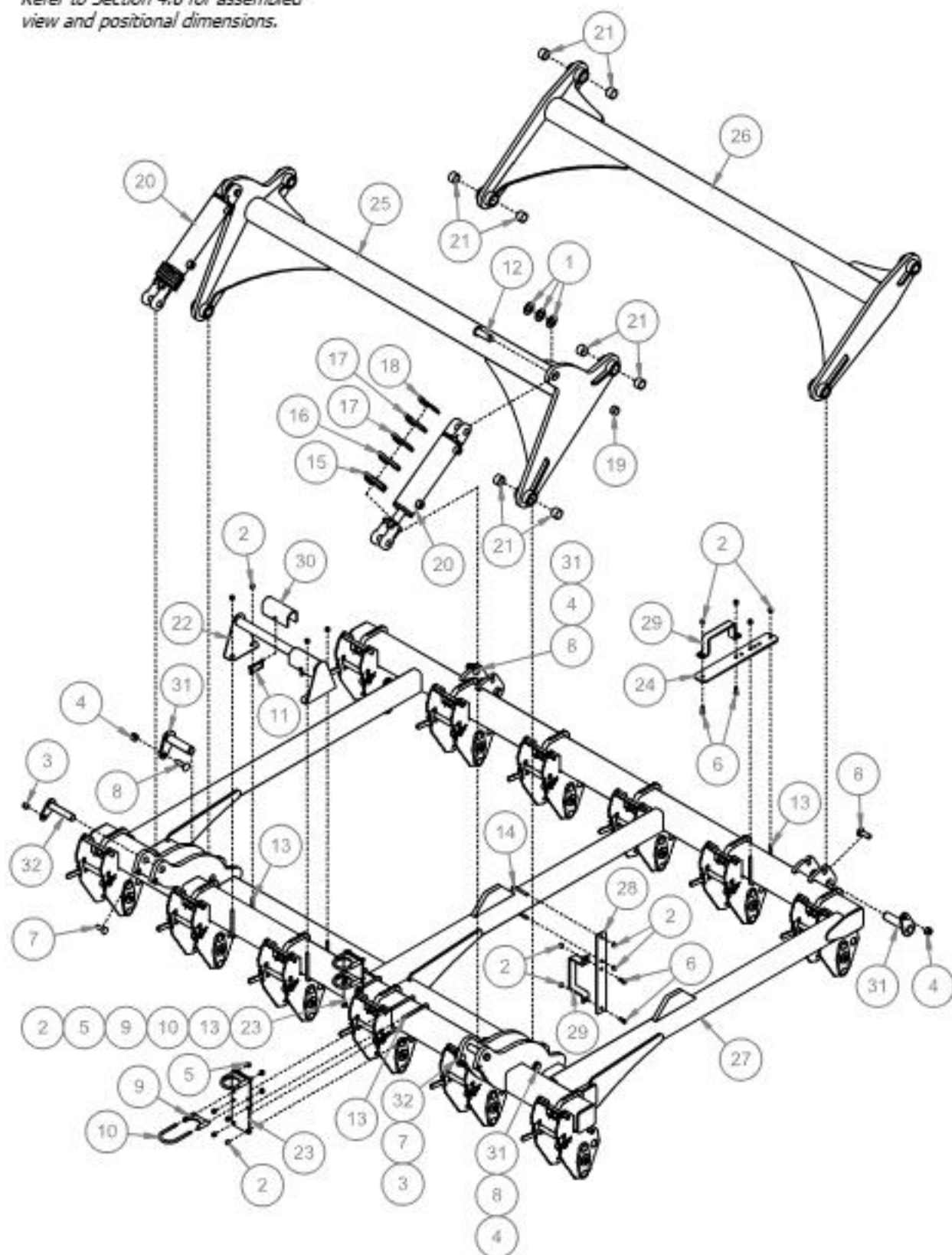
Parts Manual

50' Outer RH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	3
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	20
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	4
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	1
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	1
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	1
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	7
14	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	1
15	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	1
16	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	1
17	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	2
18	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	1
19	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	1
20	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	1
21	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
22	600-1072	SPACER STORAGE FRAME	1
23	600-1076	BRACKET, HEADER TOWER UPRIGHT	1
24	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
25	600-1148	TORQUE TUBE, NARROW FRONT (42 3/4")	1
26	600-1170	BRACKET, AIR PACK	1
27	600-1178	HOSE STRAP	2
28	600-1184	SAFETY STOP	1
29	600-1205A	50' OUTER SUBFRAME ASSY, RH (REFER TO SEPARATE DRAWING)	1
30	600-1208	TORQUE TUBE, RH, 50' OUTER WING, BACK (31")	1
31	600-1222	PIN, 1-1/4" DIA	4
32	600-1224	PIN, 1" DIA	1
33	600-1326	HEADER TOWER UPRIGHT, JOHN DEERE	1

2.7.8 60' Outer LH Subframe (600-1152A)

Refer to Section 4.8 for assembled view and positional dimensions.



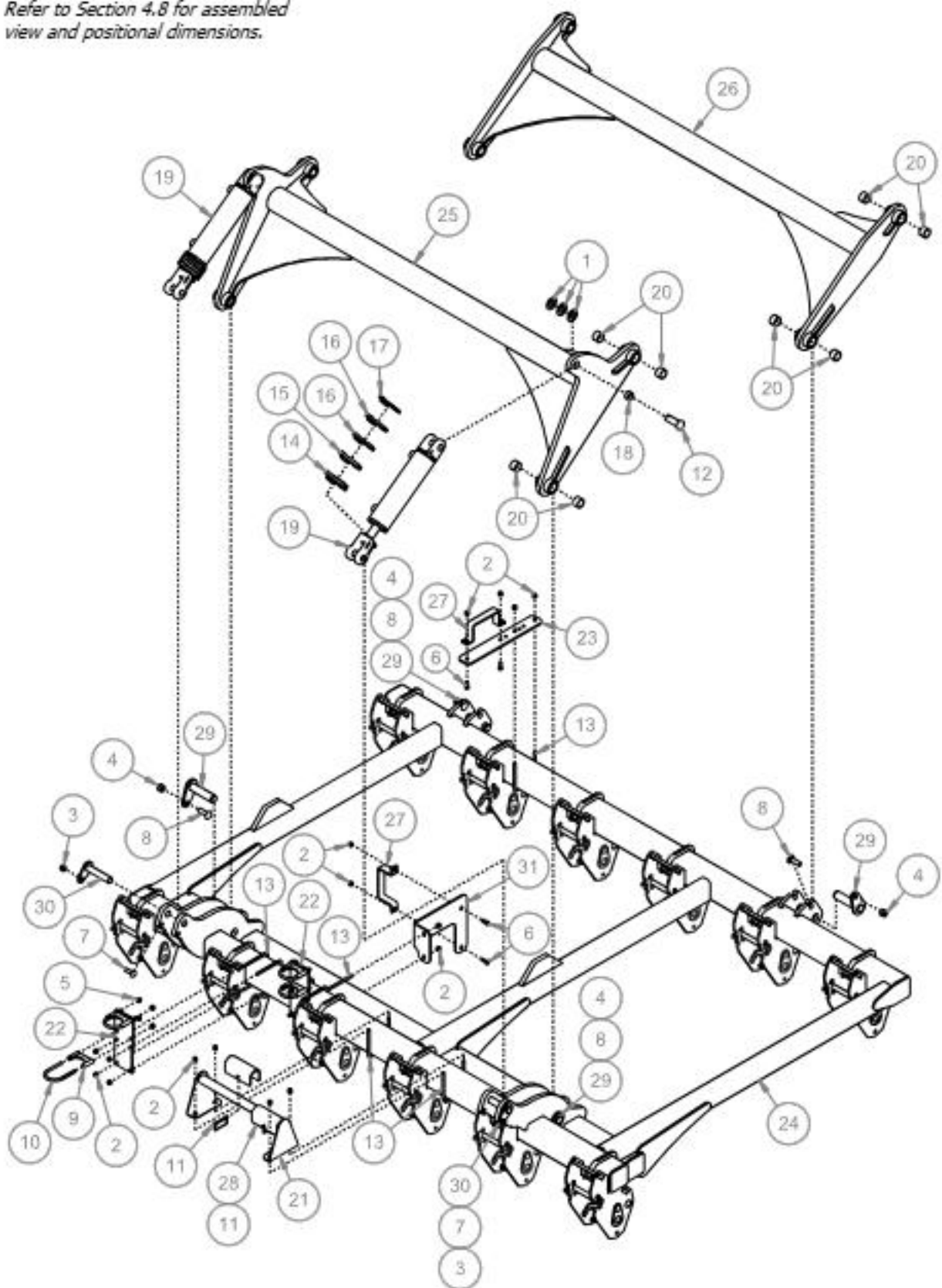
Parts Manual

60' Outer LH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	20
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	4
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	7
14	185-005	U-BOLT, 3/8 X 4-1/16 W X 3 H, UNC GR5 PLATED	1
15	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2
16	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2
17	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4
18	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2
19	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2
20	212-161 212-405	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i> HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	2
21	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
22	600-1072	SPACER STORAGE FRAME	1
23	600-1076	BRACKET, HEADER TOWER UPRIGHT	2
24	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
25	600-1128	TORQUE TUBE, 60' OUTER WING, BACK (73 7/8")	1
26	600-1130	TORQUE TUBE, 60' OUTER WING, FRONT (75 3/4")	1
27	600-1152A	60' OUTER SUBFRAME ASSY, LH (REFER TO SEPARATE DRAWING)	1
28	600-1170	BRACKET, AIR PACK	1
29	600-1178	HOSE STRAP	2
30	600-1184	SAFETY STOP	2
31	600-1222	PIN, 1-1/4" DIA	4
32	600-1224	PIN, 1" DIA	2

2.7.9 60' Outer RH Subframe (600-1112A)

Refer to Section 4.8 for assembled view and positional dimensions.



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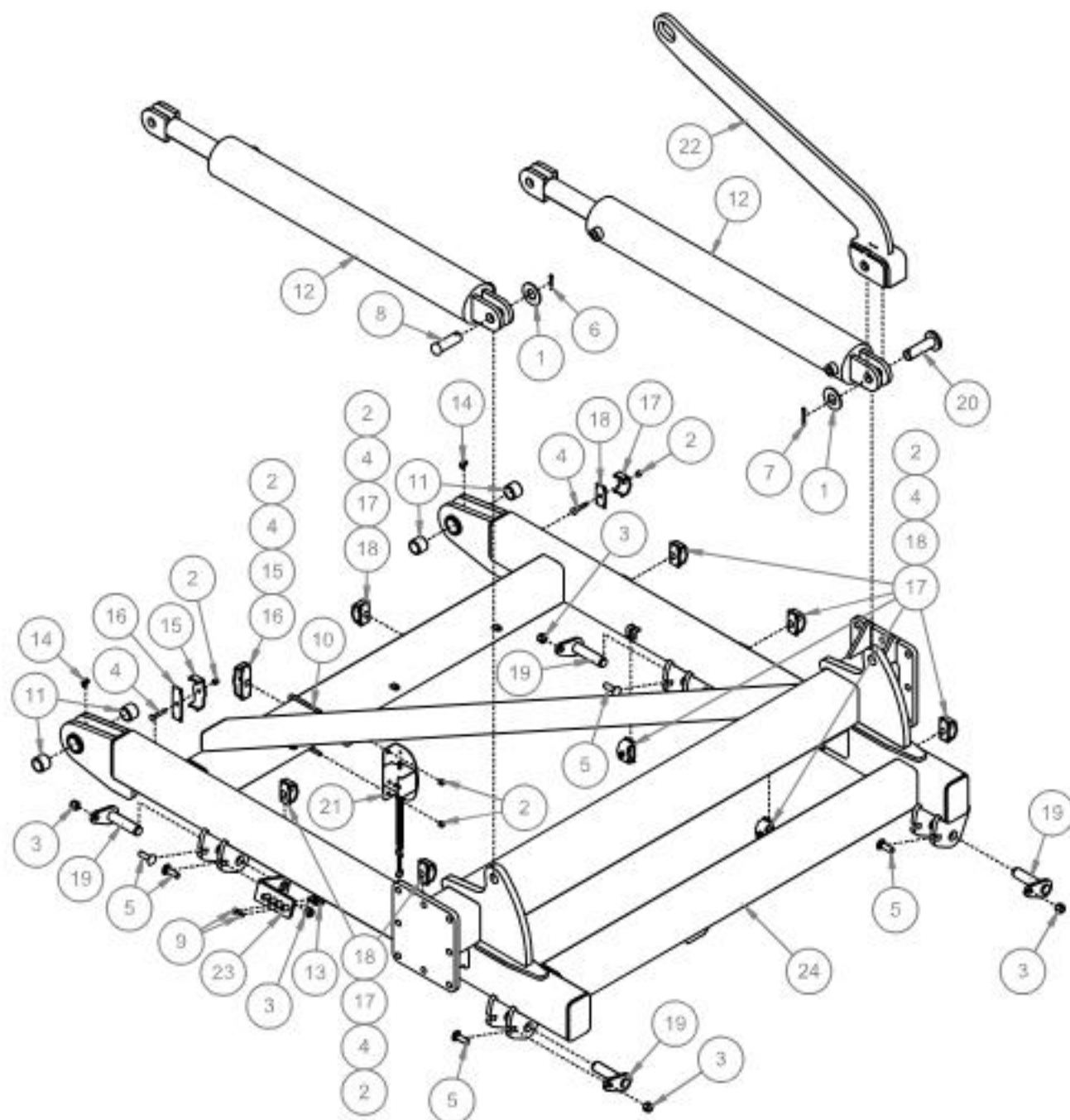
60' Outer RH Subframe

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-010	WASHER, 1 PLATED SAE	6
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	20
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	4
5	124-006	LOCKNUT, 3/8" FLANGE, NYLON INSERT	8
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	4
7	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2
8	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	4
9	165-006	MUFFLER CLAMP, 2.625" ID	4
10	165-017	U-BOLT, 3/8-16x2-1/2" B/T x 4IH, ROUND	4
11	170-082	QUICK PIN, 0.25 X 2.5, ROUND OR SQUARE WIRE	2
12	Cyl. Pin	PIN ASSY SUPPLIED W/ ASSOCIATED CYLINDER	2
13	185-002	U-BOLT, 3/8 X 4-1/16 W X 5-1/16 H, UNC GR5 PLATED	8
14	212-006	SHIM, 3/4", STYLE "A" STROKE CTRL	2
15	212-007	SHIM, 1/2", STYLE "A" STROKE CTRL	2
16	212-008	SHIM, 3/8", STYLE "A" STROKE CTRL	4
17	212-009	SHIM, 1/4", STYLE "A" STROKE CTRL	2
18	212-059	TENSION BUSHING, 1" ID X 1-1/4" OD X 3/4" LG	2
19	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL <i>** (Walking dual wheel configuration only—not compatible with single large wheels)**</i>	2
	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	
20	212-298	BUSHING, Q25I-2024-16 IGLIDE G300 SLEEVE BEARING (1-1/4" ID X 1-1/2" OD X 1" LG)	16
21	600-1072	SPACER STORAGE FRAME	1
22	600-1076	BRACKET, HEADER TOWER UPRIGHT	2
23	600-1092	PRIMARY HOSE BRKT, FRONT TUBE	1
24	600-1112A	60' OUTER SUBFRAME ASSY, RH <i>(REFER TO SEPARATE DRAWING)</i>	1
25	600-1128	TORQUE TUBE, 60' OUTER WING, BACK (73 7/8")	1
26	600-1130	TORQUE TUBE, 60' OUTER WING, FRONT (75 3/4")	1
27	600-1178	HOSE STRAP	2
28	600-1184	SAFETY STOP	2
29	600-1222	PIN, 1-1/4" DIA	4
30	600-1224	PIN, 1" DIA	2
31	600-3023	ANGLE BRACKET, AIR PACK	1

2.8 Wing Frames

2.8.1 30' LH Wing Frame (600-3012A)

Refer to Section 4.2 for assembled view and positional dimensions.



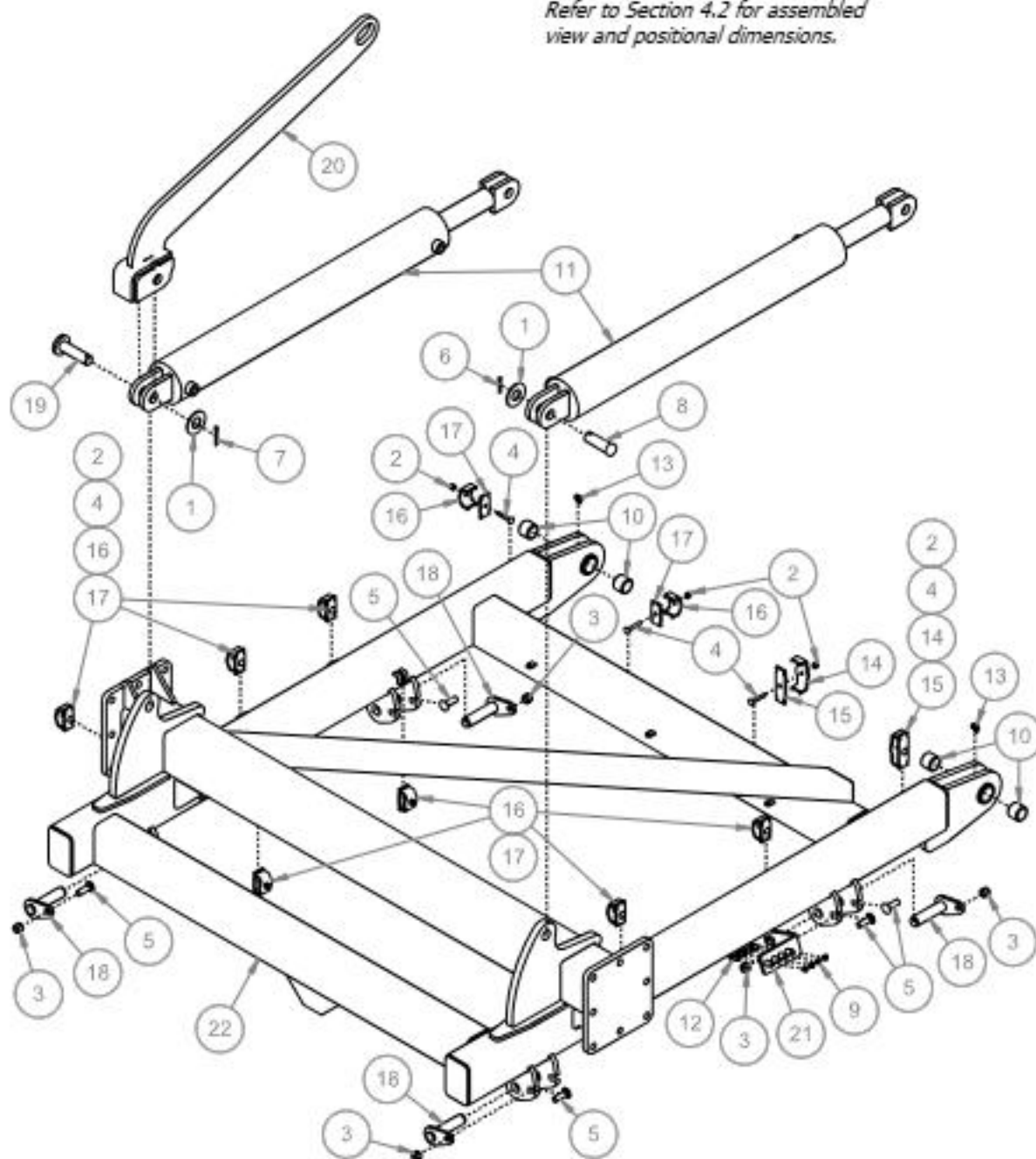
Parts Manual

30' LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	2
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	13
3	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
4	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	11
5	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
6	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	1
7	170-080	COTTER PIN, 1/4 X 2 PLATED	1
8	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	1
9	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	2
10	185-006	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	1
11	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	4
12	212-159	5" x 40" HYD CYL	2
13	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	2
14	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° (REMOVE INNER TUBE STIFFENER/INSERT)	2
15	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	2
16	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	2
17	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	9
18	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	9
19	600-1222	PIN, 1-1/4" DIA	4
20	600-1260	CYLINDER PIN, 30'/40' WING LOCK	1
21	600-1282	WORK SWITCH KIT	1
22	600-1322	WING LOCK 30'	1
23	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1
24	600-3012	WING, LH, 30'	1

2.8.2 30' RH Wing Frame (600-3001A)

Refer to Section 4.2 for assembled view and positional dimensions.



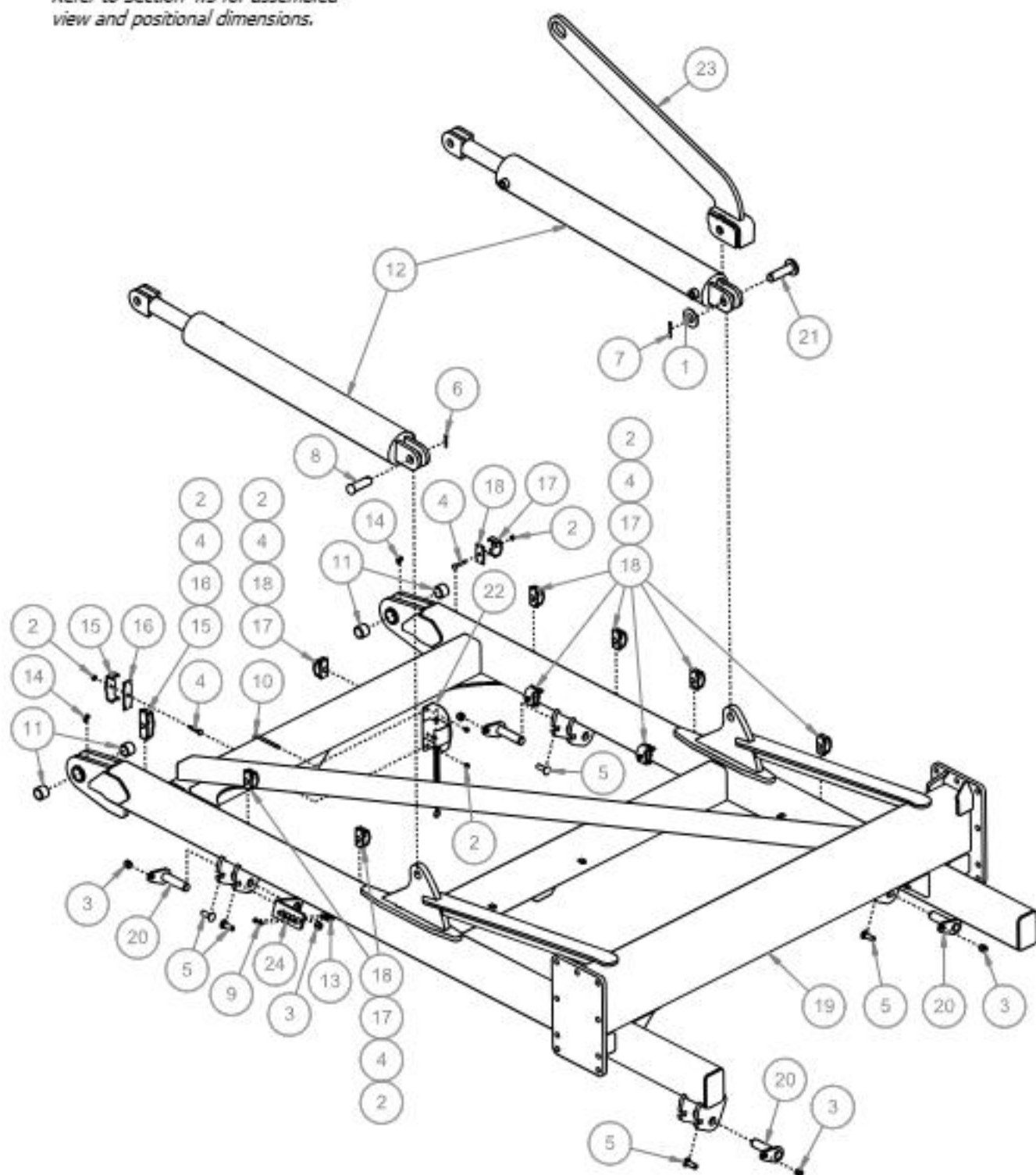
Parts Manual

30' RH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	2
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	11
3	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
4	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	11
5	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
6	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	1
7	170-080	COTTER PIN, 1/4 X 2 PLATED	1
8	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	1
9	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	4
10	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	4
11	212-159	5" x 40" HYD CYL	2
12	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	4
13	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° (REMOVE INNER TUBE STIFFENER/INSERT)	2
14	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	2
15	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	2
16	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	9
17	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	9
18	600-1222	PIN, 1-1/4" DIA	4
19	600-1260	CYLINDER PIN, 30'/40' WING LOCK	1
20	600-1322	WING LOCK 30'	1
21	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1
22	600-3001	WING, RH, 30'	1

2.8.3 40' LH Wing Frame (600-1122A)

Refer to Section 4.3 for assembled view and positional dimensions.



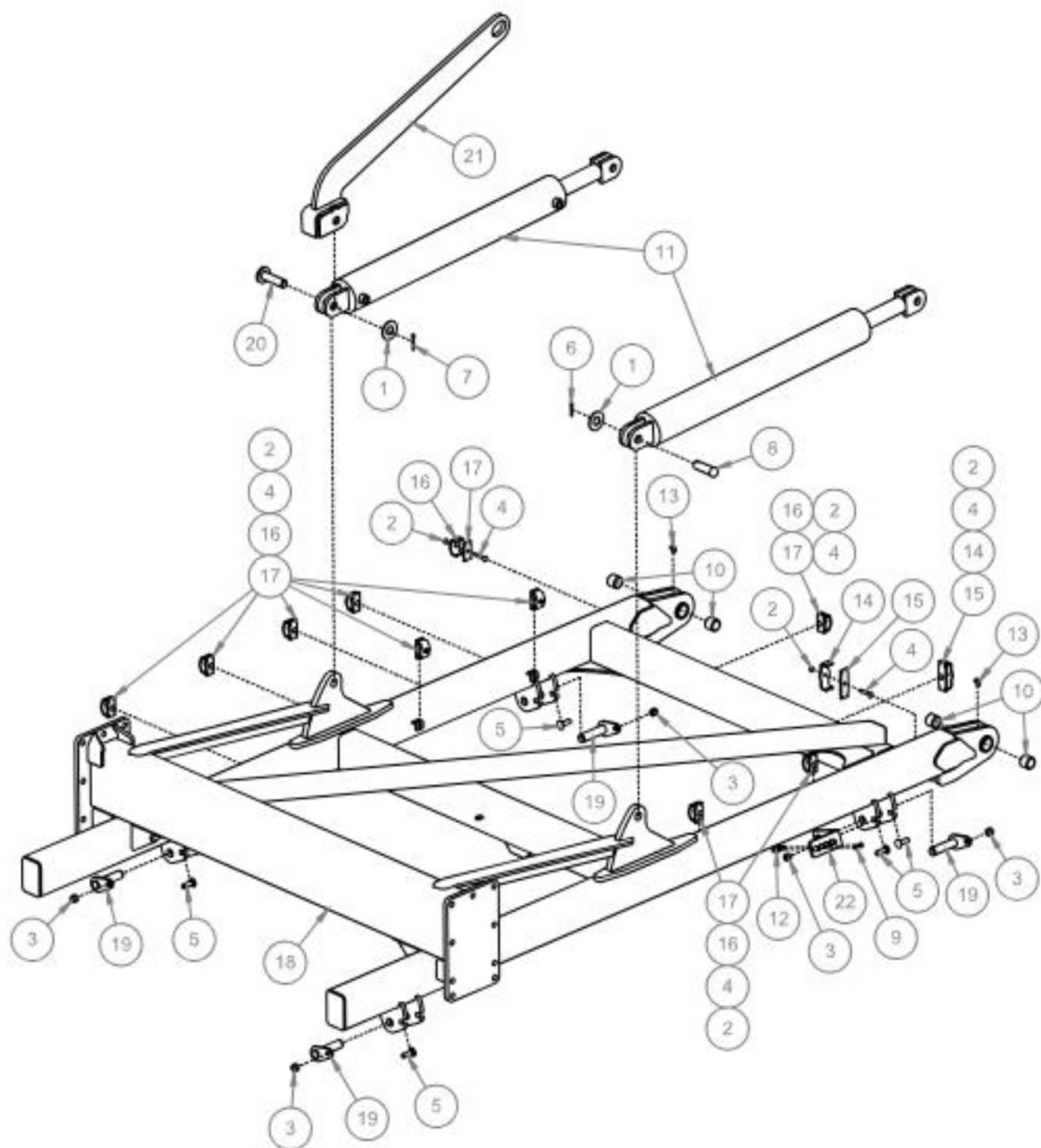
Parts Manual

40' LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	2
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	14
3	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
4	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	12
5	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
6	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	1
7	170-080	COTTER PIN, 1/4 X 2 PLATED	1
8	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	1
9	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	2
10	185-006	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	1
11	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	4
12	212-159	5" x 40" HYD CYL	2
13	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	2
14	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° (REMOVE INNER TUBE STIFFENER/INSERT)	2
15	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	2
16	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	2
17	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	10
18	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	10
19	600-1122	WING, LEFT, 40'	1
20	600-1222	PIN, 1-1/4" DIA	4
21	600-1260	CYLINDER PIN, 30'/40' WING LOCK	1
22	600-1282	WORK SWITCH KIT	1
23	600-2001	WING LOCK, 40'	1
24	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

2.8.4 40' RH Wing Frame (600-1108A)

Refer to Section 4.4 for assembled
view and positional dimensions.



Parts Manual

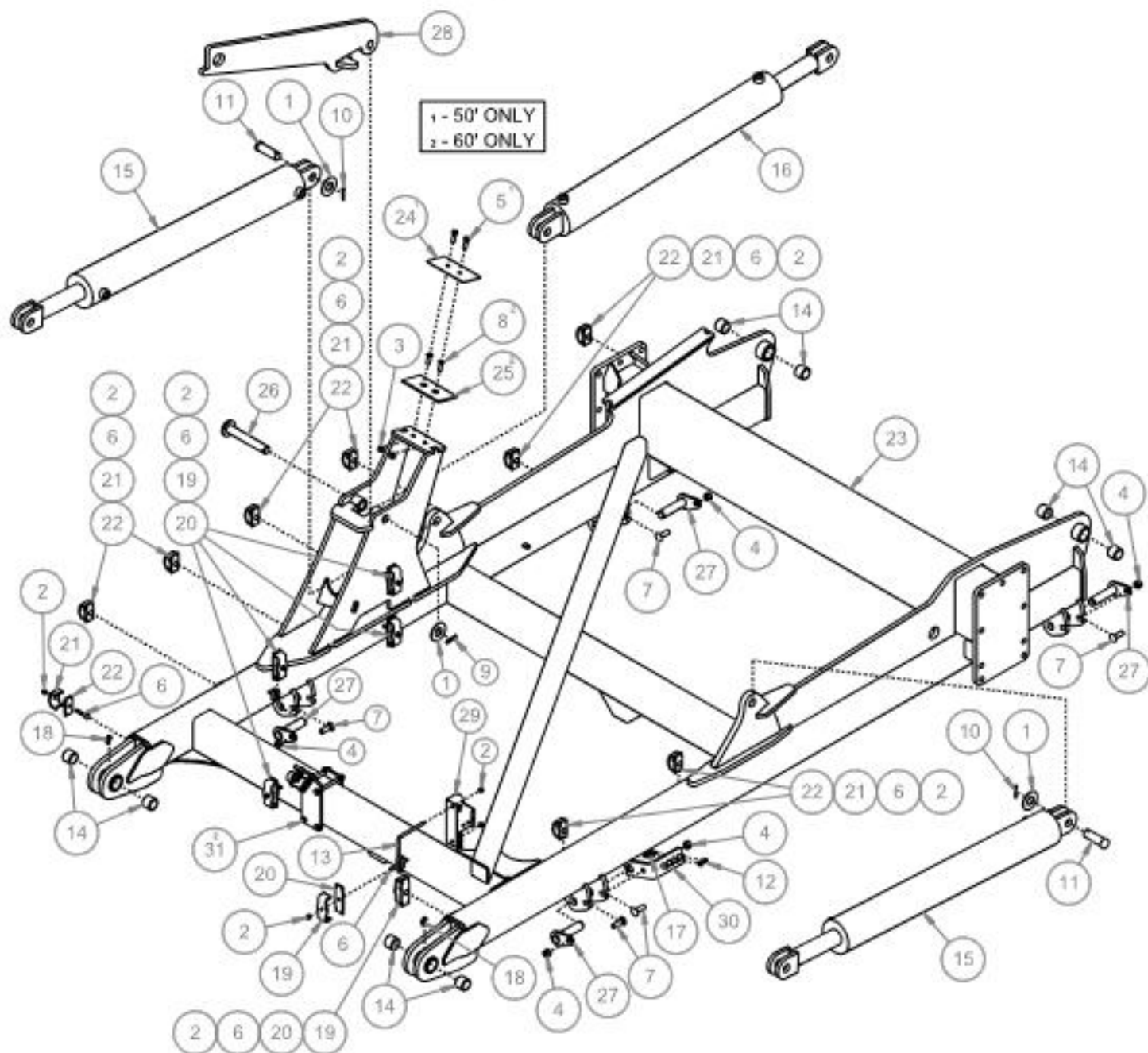
40' RH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	2
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	12
3	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
4	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	12
5	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
6	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	1
7	170-080	COTTER PIN, 1/4 X 2 PLATED	1
8	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	1
9	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	2
10	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	4
11	212-159	5" x 40" HYD CYL	2
12	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE <i>(REMOVE INNER TUBE STIFFENER/INSERT)</i>	2
13	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° <i>(REMOVE INNER TUBE STIFFENER/INSERT)</i>	2
14	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	2
15	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	2
16	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	10
17	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	10
18	600-1108	WING, RIGHT, 40'	1
19	600-1222	PIN, 1-1/4" DIA	4
20	600-1260	CYLINDER PIN, 30'/40' WING LOCK	1
21	600-2001	WING LOCK, 40'	1
22	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

Parts Manual

2.8.5 50' & 60' Inner LH Wing Frame (600-1120A)

Refer to Section 4.5 for assembled
view and positional dimensions.



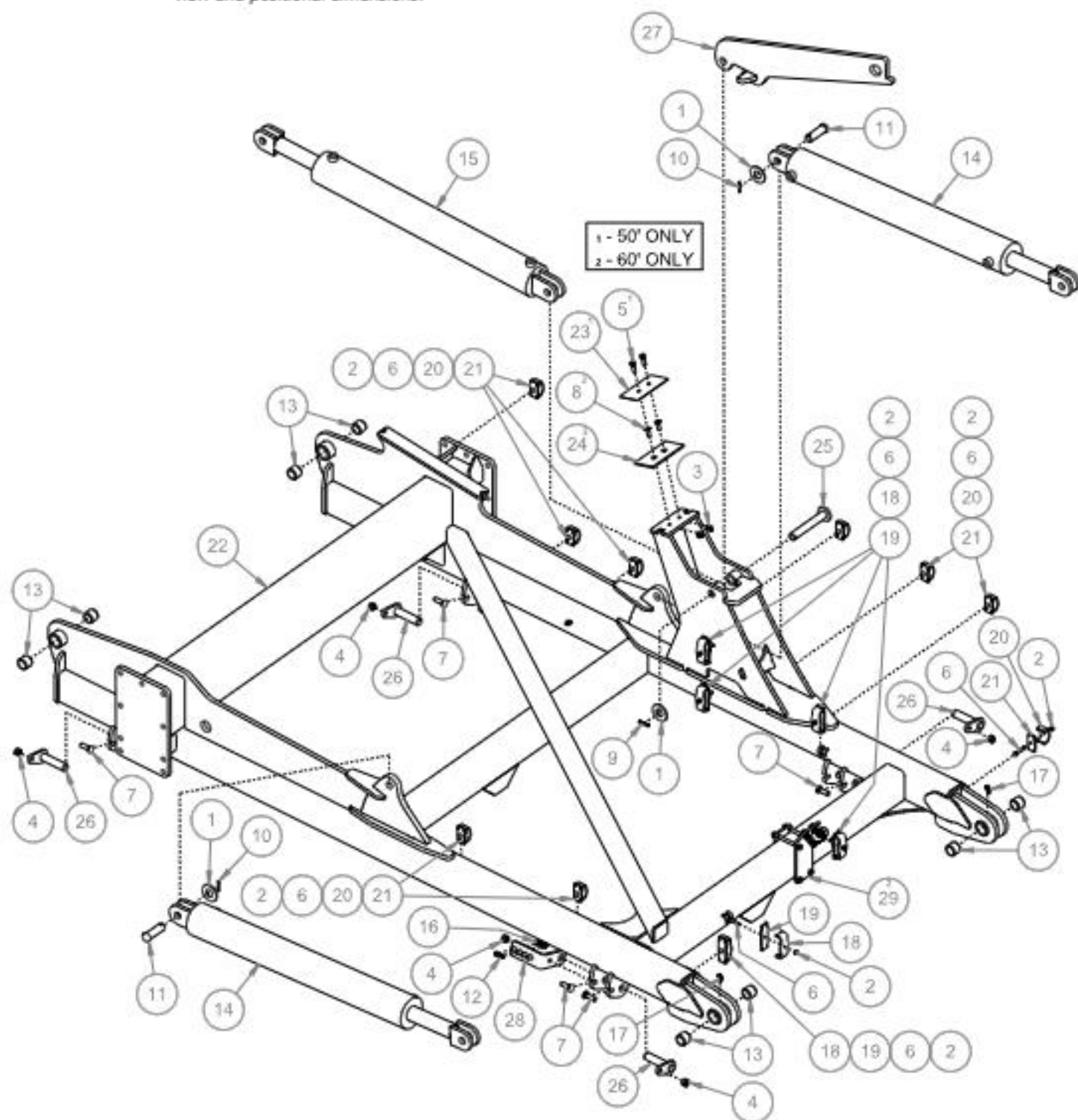
Parts Manual

50' & 60' Inner LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	17
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
5	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	2 (50' ONLY)
6	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	15
7	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
8	165-009	Socket Countersunk Flat Head Cap Screw, 1/2-13 UNC, 1-1/2" LG	2 (60' ONLY)
9	170-027	ROLL PIN, 3/8 X 2 PLATED	1
10	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	2
11	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	2
12	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	2
13	185-006	U-BOLT, 3/8 X 6-1/16 W X 5-1/8 H, UNC GR5 PLATED	1
14	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	8
15	212-159	5" x 40" HYD CYL	2
16	212-160	5" x 40" HYD CYL	1
17	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	2
18	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° (REMOVE INNER TUBE STIFFENER/INSERT)	2
19	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	6
20	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	6
21	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	9
22	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	9
23	600-1120	INNER WING, LEFT	1
24	600-1196	REST PLATE SHIM	1 (50' ONLY)
25	600-1197	REST PLATE PAD, 60'	1 (60' ONLY)
26	600-1218	PIN, WING LIFT CYLINDER	1
27	600-1222	PIN, 1-1/4" DIA	4
28	600-1252	WING LOCK ARM	1
29	600-1282	WORK SWITCH KIT	1
30	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1
31	600-3021	STOP MOUNT PLATE ASSEMBLY (SEE SUB-ASSY, SEC. 3.7)	1 (60' ONLY)

2.8.6 50' & 60' Inner RH Wing Frame (600-1106A)

Refer to Section 4.6 for assembled
view and positional dimensions.



Parts Manual

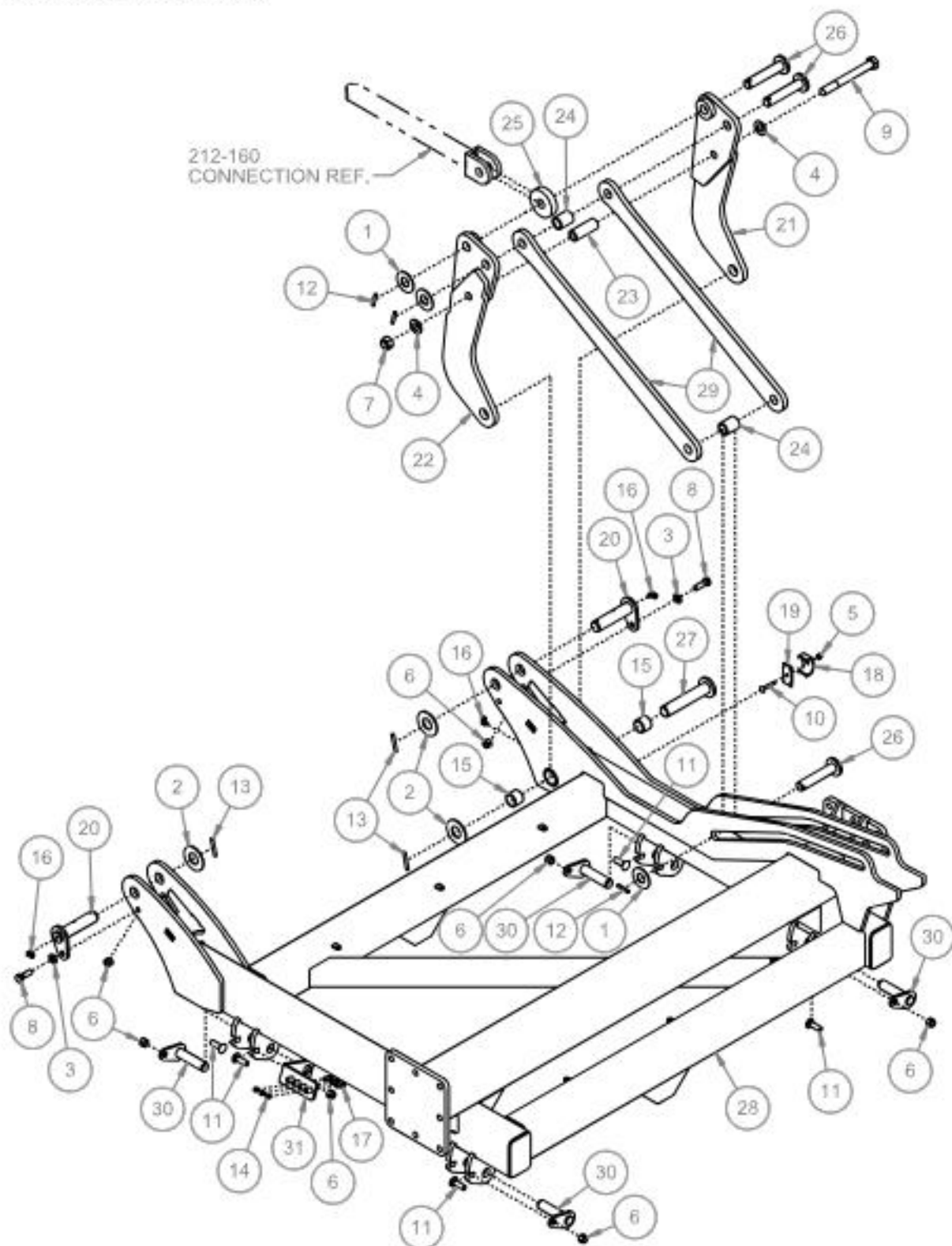
50' & 60' Inner LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	15
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
4	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	5
5	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	2 (50' ONLY)
6	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	15
7	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
8	165-009	Socket Countersunk Flat Head Cap Screw, 1/2-13 UNC, 1-1/2" LG	2 (60' ONLY)
9	170-027	ROLL PIN, 3/8 X 2 PLATED	1
10	170-079	COTTER PIN, 1/4 X 1-1/2 PLATED	2
11	170-085	PIN, CLEVIS 1-1/4 x 3-3/4" GR2 YZ	2
12	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	2
13	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	8
14	212-159	5" x 40" HYD CYL	2
15	212-160	5" x 40" HYD CYL	1
16	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	2
17	212-238	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 45° (REMOVE INNER TUBE STIFFENER/INSERT)	2
18	600-1058	HOSE CLAMP, WIDE (1/2" HOSE X 4)	6
19	600-1060	LOWER PLATE, WIDE (1/2" HOSE X 4)	6
20	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	9
21	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	9
22	600-1106	INNER WING, RIGHT	1
23	600-1196	REST PLATE SHIM	1 (50' ONLY)
24	600-1197	REST PLATE PAD, 60'	1 (60' ONLY)
25	600-1218	PIN, WING LIFT CYLINDER	1
26	600-1222	PIN, 1-1/4" DIA	4
27	600-1252	WING LOCK ARM	1
28	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1
29	600-3021	STOP MOUNT PLATE ASSEMBLY (SEE SUB-ASSY, SEC. 3.7)	1 (60' ONLY)

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2.8.7 50' Outer LH Wing Frame (600-1212A)

Refer to Section 4.7 for assembled
view and positional dimensions.



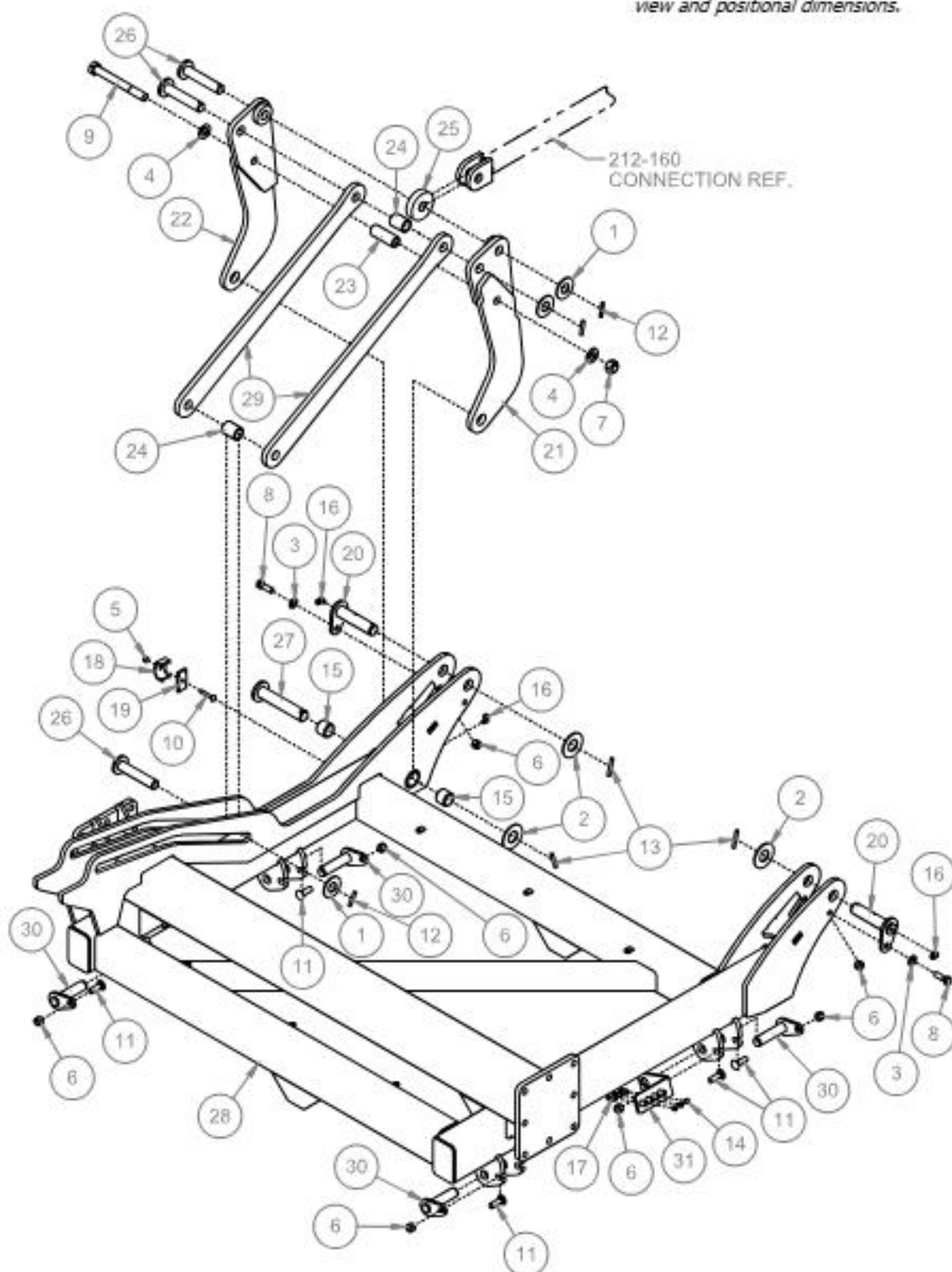
Parts Manual

50' Outer LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	101-014	WASHER, 1-1/2 PLATED USS	3
3	102-007	WASHER, 5/8 PLATED SAE	2
4	102-010	WASHER, 1 PLATED SAE	2
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	1
6	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	7
7	119-010	STOVER NUT, 1 UNF GR 2 PLATED	1
8	125-155	BOLT, 5/8 X 2 UNC GR5 PLATED	2
9	140-264	BOLT, 1 X 9 UNF GR8 PLATED	1
10	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	1
11	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
12	170-027	ROLL PIN, 3/8 X 2 PLATED	3
13	170-028	ROLL PIN, 3/8 X 2-1/2 PLATED	3
14	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	3
15	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	2
16	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° (REMOVE INNER TUBE STIFFENER/INSERT)	3
17	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	3
18	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	1
19	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	1
20	600-1124	PIN, FRAME PIVOT	2
21	600-1126	WING FOLD LINK, LEFT	1
22	600-1132	WING FOLD LINK, RIGHT	1
23	600-1138	SPACER, WING LIFT ARM	1
24	600-1158	LIFT LINK SPACER	2
25	600-1162	ROLLER	1
26	600-1164	PIN, WING LIFT ARM, CYLINDER	3
27	600-1166	PIN, WING LIFT ARM PIVOT	1
28	600-1212	OUTER WING, LH, 50'	1
29	600-1220	WING LIFT LINK	2
30	600-1222	PIN, 1-1/4" DIA	4
31	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

2.8.8 50' Outer RH Wing Frame (600-1200A)

Refer to Section 4.7 for assembled
view and positional dimensions.

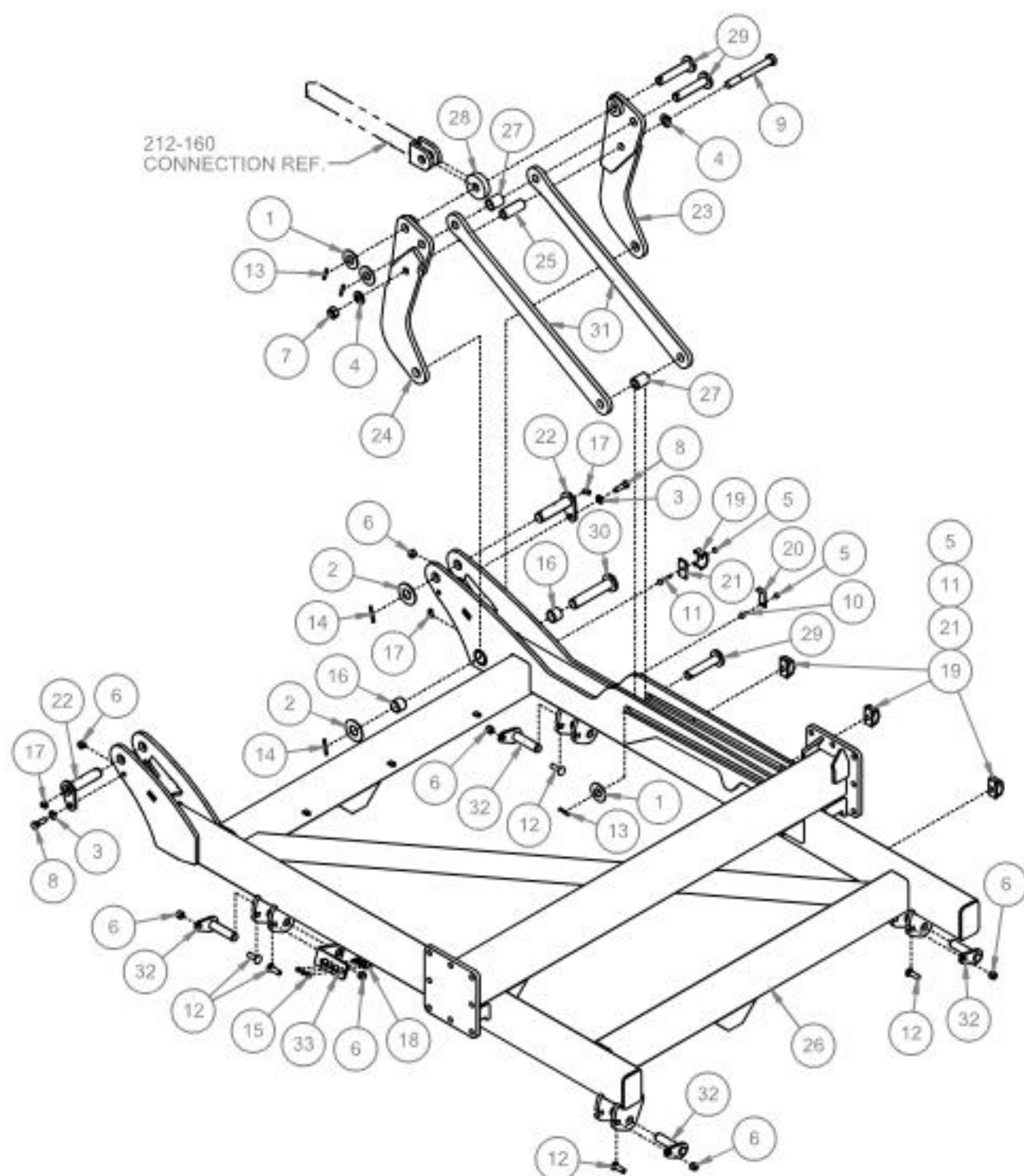


Parts Manual

50' Outer RH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	101-014	WASHER, 1-1/2 PLATED USS	3
3	102-007	WASHER, 5/8 PLATED SAE	2
4	102-010	WASHER, 1 PLATED SAE	2
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	1
6	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	7
7	119-010	STOVER NUT, 1 UNF GR 2 PLATED	1
8	125-155	BOLT, 5/8 X 2 UNC GR5 PLATED	2
9	140-264	BOLT, 1 X 9 UNF GR8 PLATED	1
10	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	1
11	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
12	170-027	ROLL PIN, 3/8 X 2 PLATED	3
13	170-028	ROLL PIN, 3/8 X 2-1/2 PLATED	3
14	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	3
15	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	2
16	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° (REMOVE INNER TUBE STIFFENER/INSERT)	3
17	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	3
18	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	1
19	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	1
20	600-1124	PIN, FRAME PIVOT	2
21	600-1126	WING FOLD LINK, LEFT	1
22	600-1132	WING FOLD LINK, RIGHT	1
23	600-1138	SPACER, WING LIFT ARM	1
24	600-1158	LIFT LINK SPACER	2
25	600-1162	ROLLER	1
26	600-1164	PIN, WING LIFT ARM, CYLINDER	3
27	600-1166	PIN, WING LIFT ARM PIVOT	1
28	600-1200	OUTER WING, RH, 50'	1
29	600-1220	WING LIFT LINK	2
30	600-1222	PIN, 1-1/4" DIA	4
31	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

2.8.9 60' Outer LH Wing Frame (600-1146A)

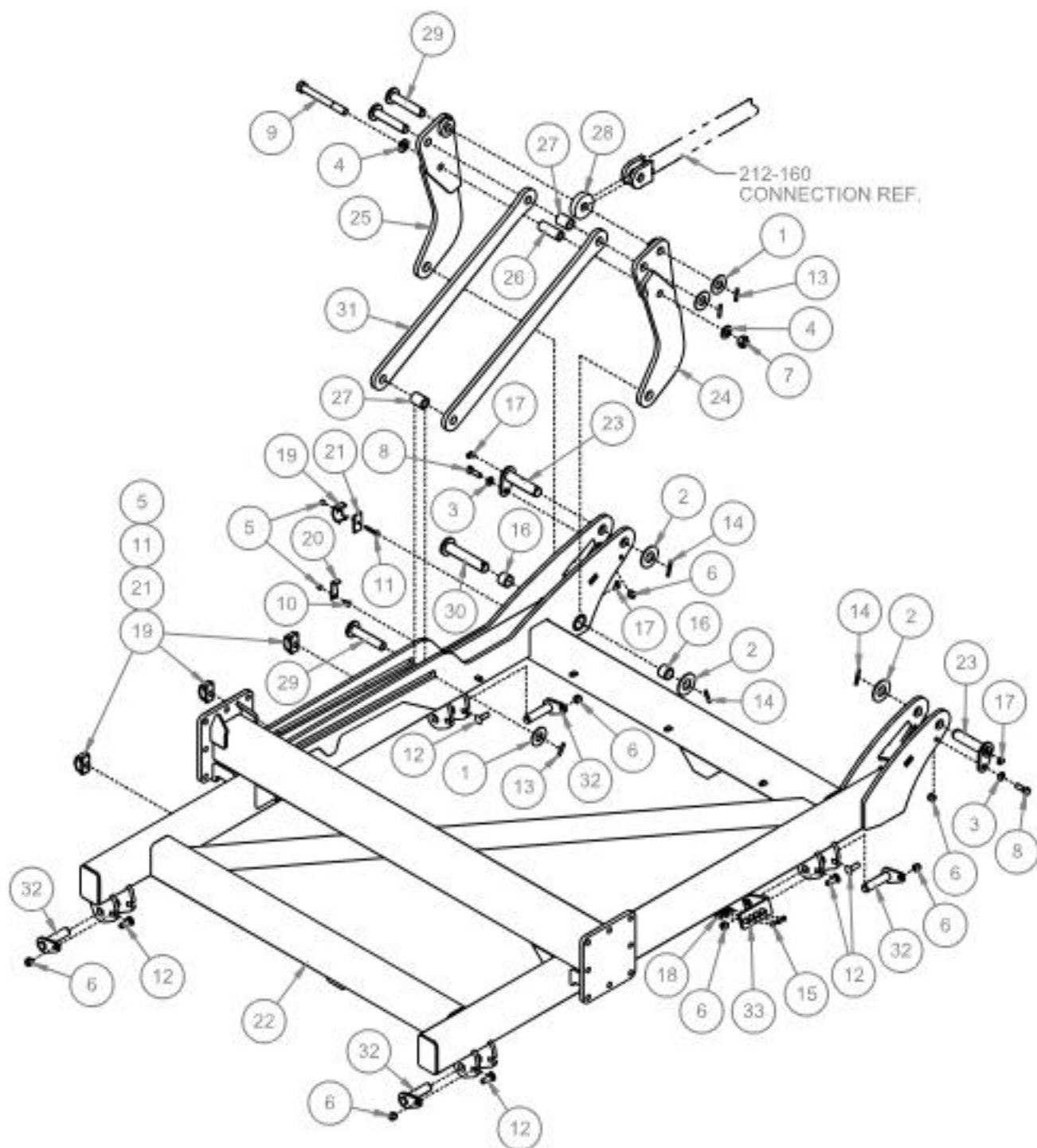


Parts Manual

60' Outer LH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	101-014	WASHER, 1-1/2 PLATED USS	3
3	102-007	WASHER, 5/8 PLATED SAE	2
4	102-010	WASHER, 1 PLATED SAE	2
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	5
6	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	7
7	119-010	STOVER NUT, 1 UNF GR 2 PLATED	1
8	125-155	BOLT, 5/8 X 2 UNC GR5 PLATED	2
9	140-264	BOLT, 1 X 9 UNF GR8 PLATED	1
10	145-052	CARR. BOLT, 3/8 X 1 UNC GR5 PLATED	1
11	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	4
12	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
13	170-027	ROLL PIN, 3/8 X 2 PLATED	3
14	170-028	ROLL PIN, 3/8 X 2-1/2 PLATED	3
15	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	3
16	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	2
17	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° (REMOVE INNER TUBE STIFFENER/INSERT)	3
18	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	3
19	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	4
20	600-1063	HOSE CLAMP, OFFSET (1/2" HOSE X 2)	1
21	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	4
22	600-1124	PIN, FRAME PIVOT	2
23	600-1126	WING FOLD LINK, LEFT	1
24	600-1132	WING FOLD LINK, RIGHT	1
25	600-1138	SPACER, WING LIFT ARM	1
26	600-1146	OUTER WING, LH, 60'	1
27	600-1158	LIFT LINK SPACER	2
28	600-1162	ROLLER	1
29	600-1164	PIN, WING LIFT ARM, CYLINDER	3
30	600-1166	PIN, WING LIFT ARM PIVOT	1
31	600-1220	WING LIFT LINK	2
32	600-1222	PIN, 1-1/4" DIA	4
33	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

2.8.10 60' Outer RH Wing Frame (600-11104)



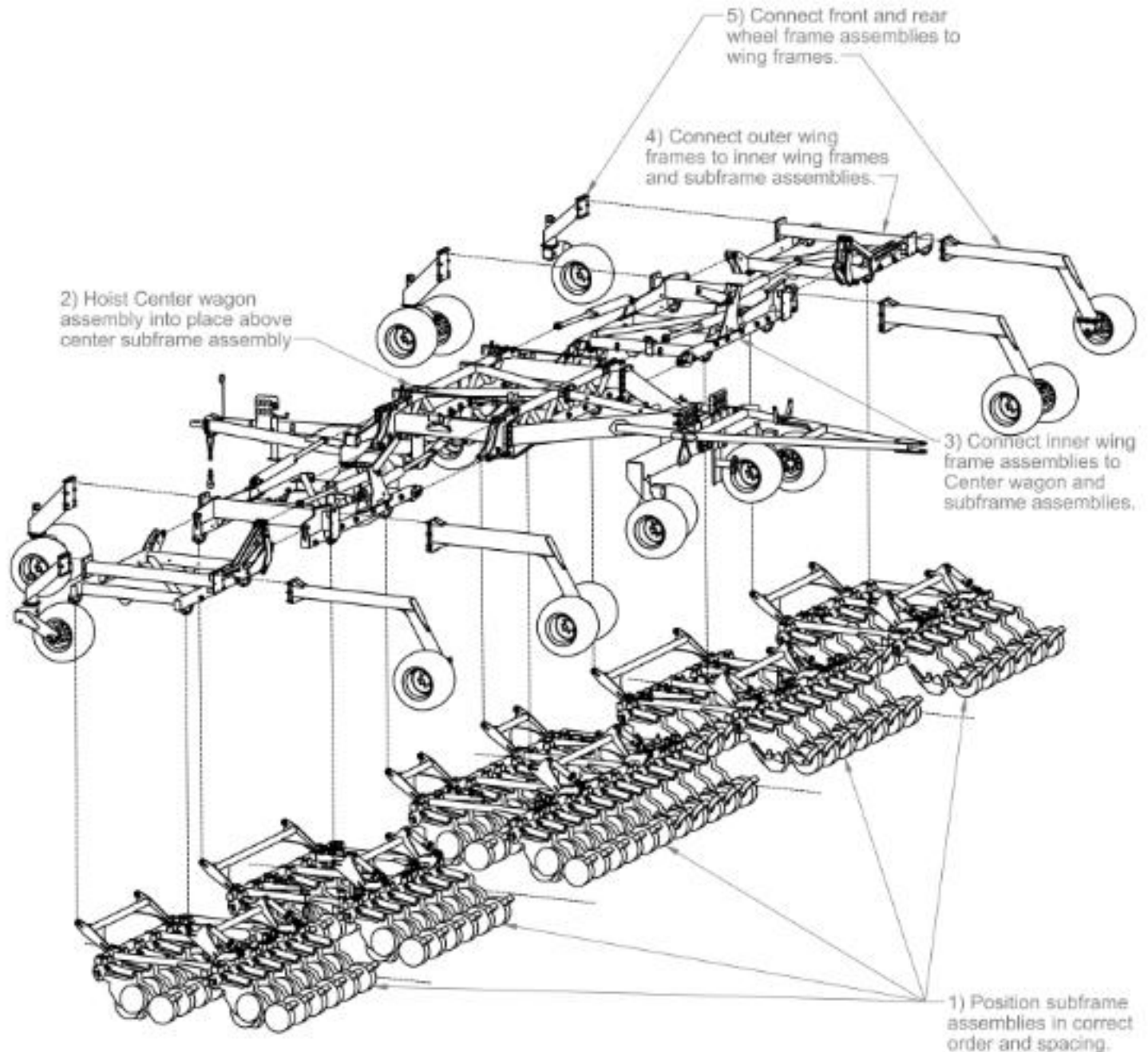
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60' Outer RH Wing Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-012	WASHER, 1-1/4 PLATED USS	3
2	101-014	WASHER, 1-1/2 PLATED USS	3
3	102-007	WASHER, 5/8 PLATED SAE	2
4	102-010	WASHER, 1 PLATED SAE	2
5	114-003	LOCKNUT, 3/8" UNC NYL INS GR 2 YZ	5
6	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	7
7	119-010	STOVER NUT, 1 UNF GR 2 PLATED	1
8	125-155	BOLT, 5/8 X 2 UNC GR5 PLATED	2
9	140-264	BOLT, 1 X 9 UNF GR8 PLATED	1
10	145-052	CARR. BOLT, 3/8 X 1 UNC GR5 PLATED	1
11	145-058	CARR. BOLT, 3/8 X 2-1/4 UNC GR5 PLATED	4
12	145-156	CARR. BOLT, 5/8 X 2 UNC GR5 PLATED	5
13	170-027	ROLL PIN, 3/8 X 2 PLATED	3
14	170-028	ROLL PIN, 3/8 X 2-1/2 PLATED	3
15	180-007	GREASE FITTING, 1/4" NPT, STRAIGHT	3
16	212-068	TENSION BUSHING, 1-1/2" ID X 1-7/8" OD X 1-1/2" LG	2
17	212-235	CONNECTOR, AIR BRAKE, 1/8" M-NPT x 1/4" HOSE, 90° (REMOVE INNER TUBE STIFFENER/INSERT)	3
18	212-237	CONNECTOR, AIR BRAKE, 1/4" M-NPT x 1/4" HOSE (REMOVE INNER TUBE STIFFENER/INSERT)	3
19	600-1062	HOSE CLAMP, NARROW (1/2" HOSE X 2)	4
20	600-1063	HOSE CLAMP, OFFSET (1/2" HOSE X 2)	1
21	600-1064	LOWER PLATE, NARROW (1/2" HOSE X 2)	4
22	600-1110	OUTER WING, RH, 60'	1
23	600-1124	PIN, FRAME PIVOT	2
24	600-1126	WING FOLD LINK, LEFT	1
25	600-1132	WING FOLD LINK, RIGHT	1
26	600-1138	SPACER, WING LIFT ARM	1
27	600-1158	LIFT LINK SPACER	2
28	600-1162	ROLLER	1
29	600-1164	PIN, WING LIFT ARM, CYLINDER	3
30	600-1166	PIN, WING LIFT ARM PIVOT	1
31	600-1220	WING LIFT LINK	2
32	600-1222	PIN, 1-1/4" DIA	4
33	600-2005	GREASE BANK MOUNT, 4-HOLE ASSEMBLY	1

2.9 Assembly Fitments #2: Wing frames & Subframes

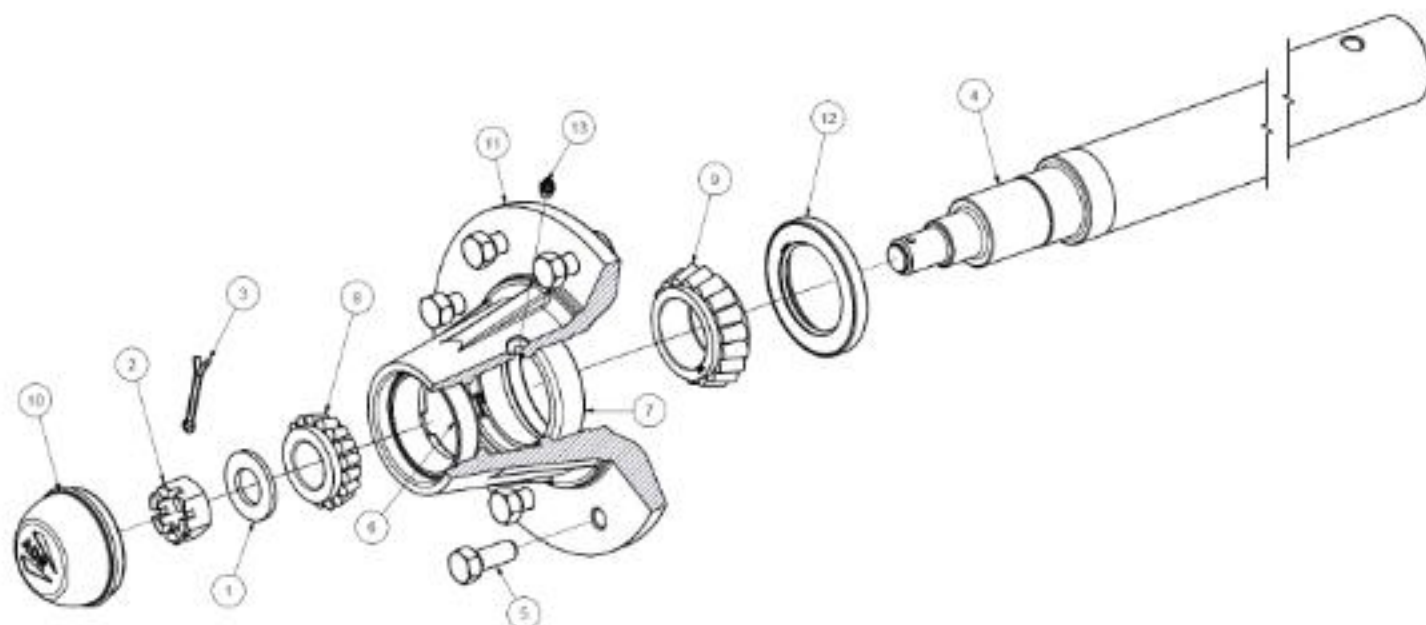
Follow the numbered assembly order in diagram below. Refer to Sec. 1.3 (Layout of Major Components) to confirm correct assemblies and sub-assemblies for each specific drill size and configuration.



3 Parts Diagrams: Sub-Assemblies

3.1 Wheel Hub - 6000 lb ("Light")

(212-106: COMPLETE ADR 8-BOLT 6,000 lb HUB ASSY, STANDARD SPINDLE)

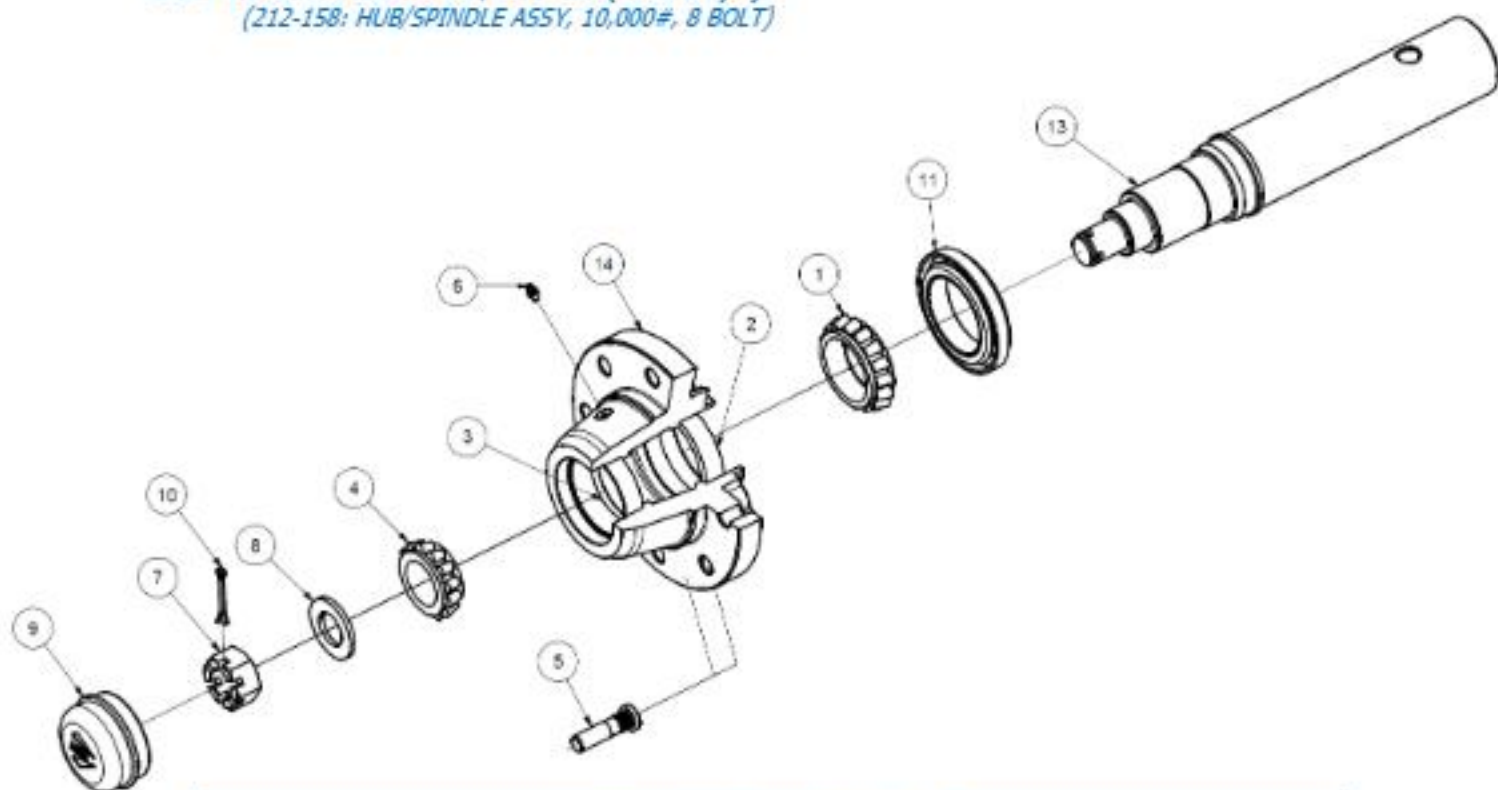


<i>Wheel Hub - 6000 lb</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-010	WASHER, M26	1
2	-	1" - 14 UNS CASTLE NUT	1
3	170-078	COTTER PIN, 5mm x 50mm	1
4	212-107	SPINDLE, STANDARD (HUB FLANGE FACE TO SHAFT END = 8-7/8")	1
5	165-002	WHEEL BOLT, 9/16" - 18 UNF	8
6	212-112	OUTER BEARING CUP, 2720	1
7	212-110	INNER BEARING CUP, 3720	1
8	212-113	OUTER BEARING CONE, 2790	1
9	212-111	INNER BEARING CONE, 3780	1
10	212-114	ADR DUST CAP	1
11	212-115	ADR 8-BOLT 6,000 lb HUB, 61LZKY002	1
12	212-116	GREASE SEAL	1
13	180-002	GREASE FITTING, M08 x 1.25	1

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3.2 Wheel Hub - 10,000 lb ("Heavy")

(212-158: HUB/SPINDLE ASSY, 10,000#, 8 BOLT)

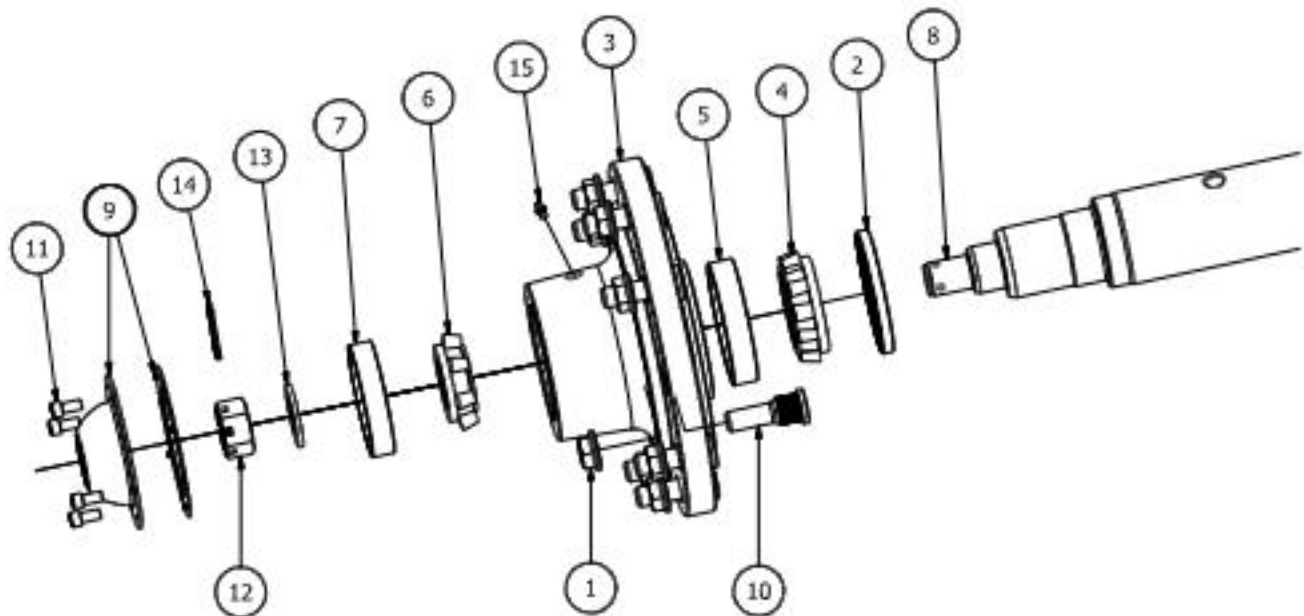


Wheel Hub - 10,000 lb

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-098	INNER BEARING CONE, 28995	1
2	212-099	INNER BEARING CUP, 28921	1
3	212-100	OUTER BEARING CUP, K25520	1
4	212-101	OUTER BEARING CONE, K25581	1
5	165-003	STUD, 5/8" - 18 UNF	8
6	180-005	GREASE FITTING, 1/4" - 28 UNF	1
7	122-005	1-1/4" - 12 UNF CASTLE NUT	1
8	-	WASHER, M33	1
9	212-102	ADR DUST CAP	1
10	170-078	COTTER PIN, 5mm x 50mm	1
11	212-103	GREASE SEAL	1
13	212-158	EXTENDED SPINDLE 212-158-01, CUT DOWN (HUB FLANGE FACE TO SHAFT END = 9")	1
14	212-105	ADR 8-BOLT 10,000 lb HUB, 61LZM1002	1

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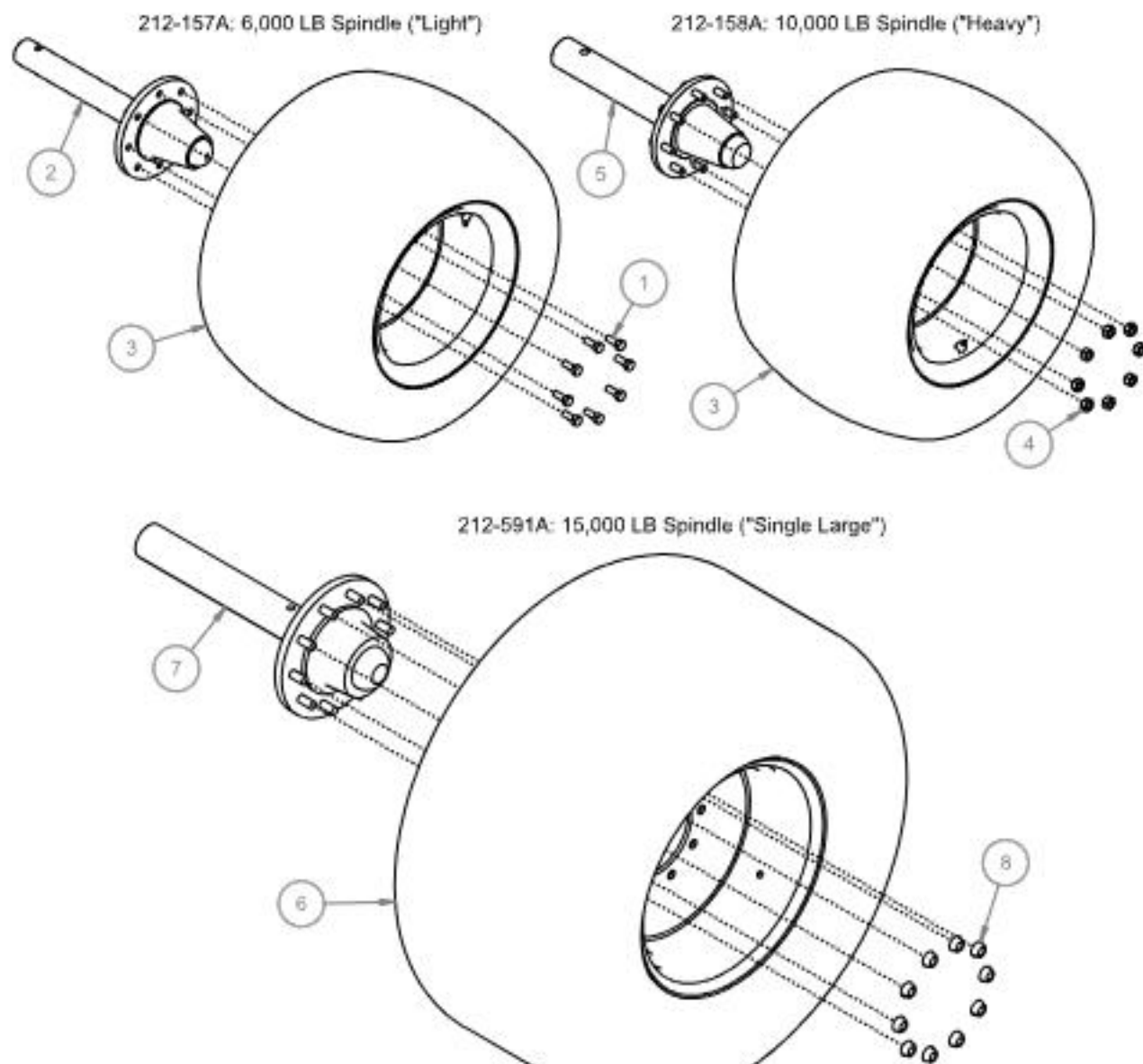
3.3 Wheel Hub - 15,000 lb ("Big/Large Wheel") (212-591: HUB/SPINDLE ASSY, 15,000#, 10 BOLT)



Wheel Hub - 15,000 lb

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-591-01	STUD NUT 3/4" - 16 UNF WRENCH 28, #573Z341	10
2	212-591-02	SPECIAL GREASE SEAL 086/118 REF: CR 33772, #5491181	1
3	212-591-03	HUB H10 3/4" - 16 UNF, #61LZQ1002	1
4	212-591-04	33275, #59833275	1
5	212-591-05	33462, #59933462	1
6	212-591-06	460, #598460	1
7	212-591-07	453A, #599453A	1
8	212-591-08	BODY STUBAXLE R089 FF616.7 LT750 LG563 33275-33462, #69Q3ZZD001	1
9	212-591-09	CAP 108 BOLT ON ADR WITH GASKET, #56110801	1
10	212-591-10	STUD 3/4" - 16 UNF L076, #572Z341	10
11	212-591-11	SCREW EH 3/8" - 24 UNF x 3/4" L, #963Z380191	4
12	212-591-12	CROWN NUT 1-1/4" - 12 UNF H27, #575Z1A1	1
13	212-591-13	WASHER M33 D034 D060 TK5.0 ISO 7089 ZINC PLATED, #9813301	1
14	212-591-14	SPLIT PIN 5X50 ISO1234, #58111	1

3.4 Tires, Wheels & Hubs (212-157A, 212-158A, 212-591A)

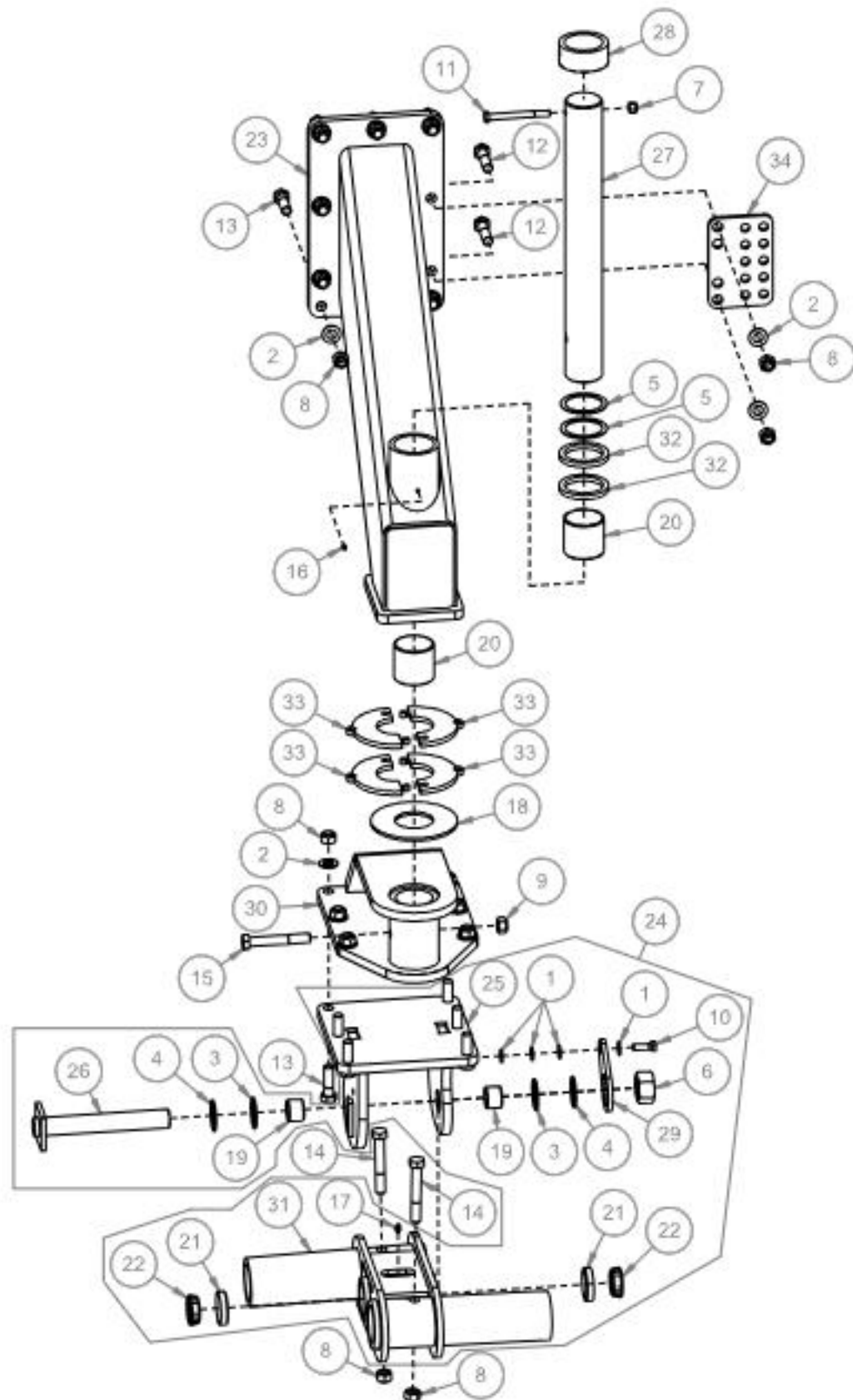


Tires, Wheels & Hubs

ITEM NO.	PART NUMBER	DESCRIPTION	6K LB QTY	10K LB QTY	15K LB QTY
1	165-002	BOLT, WHEEL 9/16-18 UNF	8	-	-
2	212-157	HUB / EXTENDED SPINDLE, 6,000 lb, 8-BOLT (SEE SEC. 3.13.4)	1	-	-
3	208-030	TIRE ASSY, 480/45-17 TL, 146A8	1	1	-
4	123-003	NUT, WHEEL 5/8-18 UNF	-	8	-
5	212-158	HUB / EXTENDED SPINDLE, 10,000 lb, 8-BOLT (SEE SEC. 3.23.4)	-	1	-
6	208-059	TIRE ASSY, 600/50R22.5 BKT FL630 ULTRA (22.5 x 20)	-	-	1
7	212-591	STUB AXLE, 15000 lb, 10-BOLT (SEE SEC. 3.33.4)	-	-	1
8	212-591-01	NUT, WHEEL 3/4"-16 UNF (c/w STUB AXLE)	-	-	10

3.5 Wheel Frames

3.5.1 Front Wheel Caster, Heavy, Walking Dual with Roller Bearings (Legacy Style)



Parts Manual

Front Wheel Caster, Heavy, Walking Dual with Roller Bearings

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-005	WASHER 1/2 PLATED SAE	4
2	102-008	WASHER 3/4 PLATED SAE	15
3	104-003	WASHER, 1-3/4" ID x 2-1/2" OD x 10GA	1 - 2
4	105-002	WASHER, 1.812" ID x 2.5" OD x .109 THK YZ	0 - 2
5	105-004	WASHER, 3.03" ID x 3.75" OD x .105 THK YZ	2
6	111-039	NUT, 1-1/2 UNF GR 8 PLATED	1
7	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
8	118-042	STOVER NUT, 3/4 UNC GR C PLATED	17
9	118-008 114-005	STOVER NUT, 3/4 UNC GR 2 PLATED PREV. STYLE - LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
10	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	1
11	125-117	BOLT, 1/2 X 5 UNC GR5 PLATED	1
12	125-184	BOLT, 3/4 X 3 UNC GR5 PLATED	2
13	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	13
14	130-192	BOLT, 3/4 X 5 UNC GR8 PLATED	2
15	130-192 125-117	BOLT, 3/4 X 5 UNC GR8 PLATED PREV. STYLE - BOLT, 1/2 X 5 UNC GR5 PLATED	1
16	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1
17	180-006	GREASE ZERK, 1/4-28 UNF 45 DEG	1
18	212-004	DISC, CASTER WEAR PLATE	1
19	212-067	TENSION BUSHING, 1-1/2" ID X 1-3/4" OD X 1-1/4" LG	2
20	212-070	TENSION BUSHING, 3" ID X 3-1/4" OD X 3" LG	2
21	212-072	TIMKEN TAPERED ROLLER BEARING CUP, P/N 13621	2
22	212-073	TIMKEN TAPERED ROLLER BEARING CONE P/N 13600LA	2
23	600-1008	CASTER ARM, HEAVY	1
24	600-1018 600-1020	RH WALKING AXLE, FRONT ASSEMBLY LH WALKING AXLE, FRONT ASSEMBLY	1
25	600-1019 600-1021	WALKING AXLE MOUNT, RIGHT WALKING AXLE MOUNT, LEFT (NOT SHOWN)	1
26	600-1022	WALKING AXLE PIN	1
27	600-1029 600-1028	CASTER PIN - 3/4" BOLT PREV. STYLE - CASTER PIN - 1/2" BOLT	1
28	600-1030	RETAINER, CASTER PIVOT	1
29	600-1070	ROTATION LOCK, 1-1/2" NUT	1
30	600-1304	ARM, CASTER, FRONT	1
31	600-1310 600-1314 600-1015 600-1017 600-1035 600-1036 600-1330 600-1332	WALKING AXLE, RH, EXTENDED WALKING AXLE, LH, EXTENDED (NOT SHOWN) WALKING AXLE, RH, HEAVY (NOT SHOWN) WALKING AXLE, LH, HEAVY (NOT SHOWN) WALKING AXLE, RH, LIGHT (NOT SHOWN) WALKING AXLE, LH, LIGHT (NOT SHOWN) WALKING AXLE, RH, LIGHT, EXTENDED (NOT SHOWN) WALKING AXLE, LH, LIGHT, EXTENDED (NOT SHOWN)	1
32	600-1312	CASTER RING	2
33	600-1316	LEVELING SHIM, 3/8"	4
34	600-2004	GREASE BANK MOUNT PL, PRESS-IN (OPTIONAL)	1

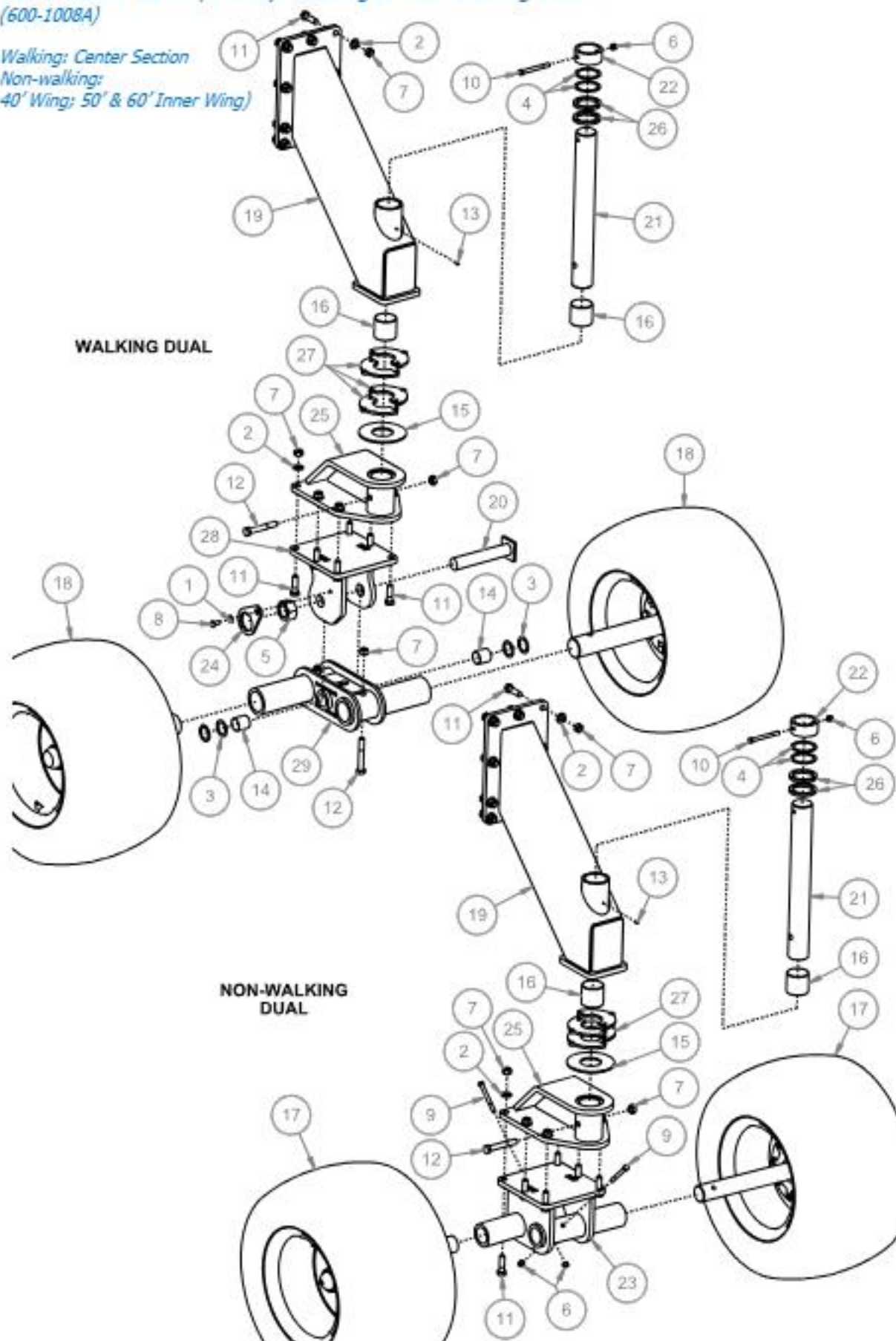
Parts Manual

3.5.2 Front Wheel Caster, Heavy Walking & Non-walking Dual (600-1008A)

Walking: Center Section

Non-walking:

40' Wing; 50' & 60' Inner Wing)



Parts Manual

Front Wheel Caster, Heavy Walking & Non-walking Dual

ITEM NO.	PART NUMBER	DESCRIPTION	WALKING QTY	NON-WALK QTY
1	102-005	WASHER, 1/2 PLATED SAE	1	-
2	102-008	WASHER, 3/4 PLATED SAE	15	15
3	104-004	WASHER, 1-3/4 ID x 2-1/2 OD x 18GA	4	-
4	105-004	WASHER, 3.03" ID x 3.75" OD x .105 THK YZ	2	2
5	111-040	NUT, 1-3/4 UNF GR 8 PLATED	1	-
6	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1	3
7	118-042	STOVER NUT, 3/4 UNC GR C PLATED	18	16
8	125-101	BOLT, 1/2 X 1 UNC GR5 PLATED	1	-
9	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	-	2
10	125-117	BOLT, 1/2 X 5 UNC GR5 PLATED	1	1
11	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	15	15
12	130-192	BOLT, 3/4 X 5 UNC GR8 PLATED	3	1
13	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1	1
14	206-503	BUSHING, igus Q25I-2831-32, 1-3/4" ID x 1-15/16" OD X 2" LG	2	-
15	212-004	DISC, CASTER WEAR PLATE	1	1
16	212-070	TENSION BUSHING, 3" ID X 3-1/4" OD X 3" LG	2	2
17	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEE SEC. 3.4)	-	2
18	212-158A	10,000 lb SPINDLE ("HEAVY") & TIRE ASSY (SEE SEC. 3.4)	2	-
19	600-1008	CASTER ARM, HEAVY	1	1
20	600-1023	WALKING AXLE PIN, PLAIN BRGS	1	-
21	600-1029	CASTER PIN - 3/4" BOLT	1	1
22	600-1030	RETAINER, CASTER PIVOT	1	1
23	600-1047 600-1048	DUAL AXLE MOUNT, LH (NOT SHOWN) DUAL AXLE MOUNT, RH (SHOWN)	-	1
24	600-1071	ROTATION LOCK, 1-3/4" NUT	1	-
25	600-1304	ARM, CASTER, FRONT	1	1
26	600-1312	CASTER RING	2	2
27	600-1316	LEVELING SHIM, 3/8"	4	4
28	600-1019 600-1021 600-1343 600-1344	WALKING AXLE MOUNT, RIGHT (NOT SHOWN) WALKING AXLE MOUNT, LEFT (NOT SHOWN) STRAIGHT WALKING AXLE MOUNT, RH (SHOWN) STRAIGHT WALKING AXLE MOUNT, LH (NOT SHOWN)	1	-
29	600-1334 600-1336 600-1347	WALKING AXLE, RH, EXTENDED, PLAIN BRGS (NOT SHOWN) WALKING AXLE, LH, EXTENDED, PLAIN BRGS (NOT SHOWN) STRAIGHT WALKING AXLE, EXT, PLAIN BRGS (SHOWN)	1	-

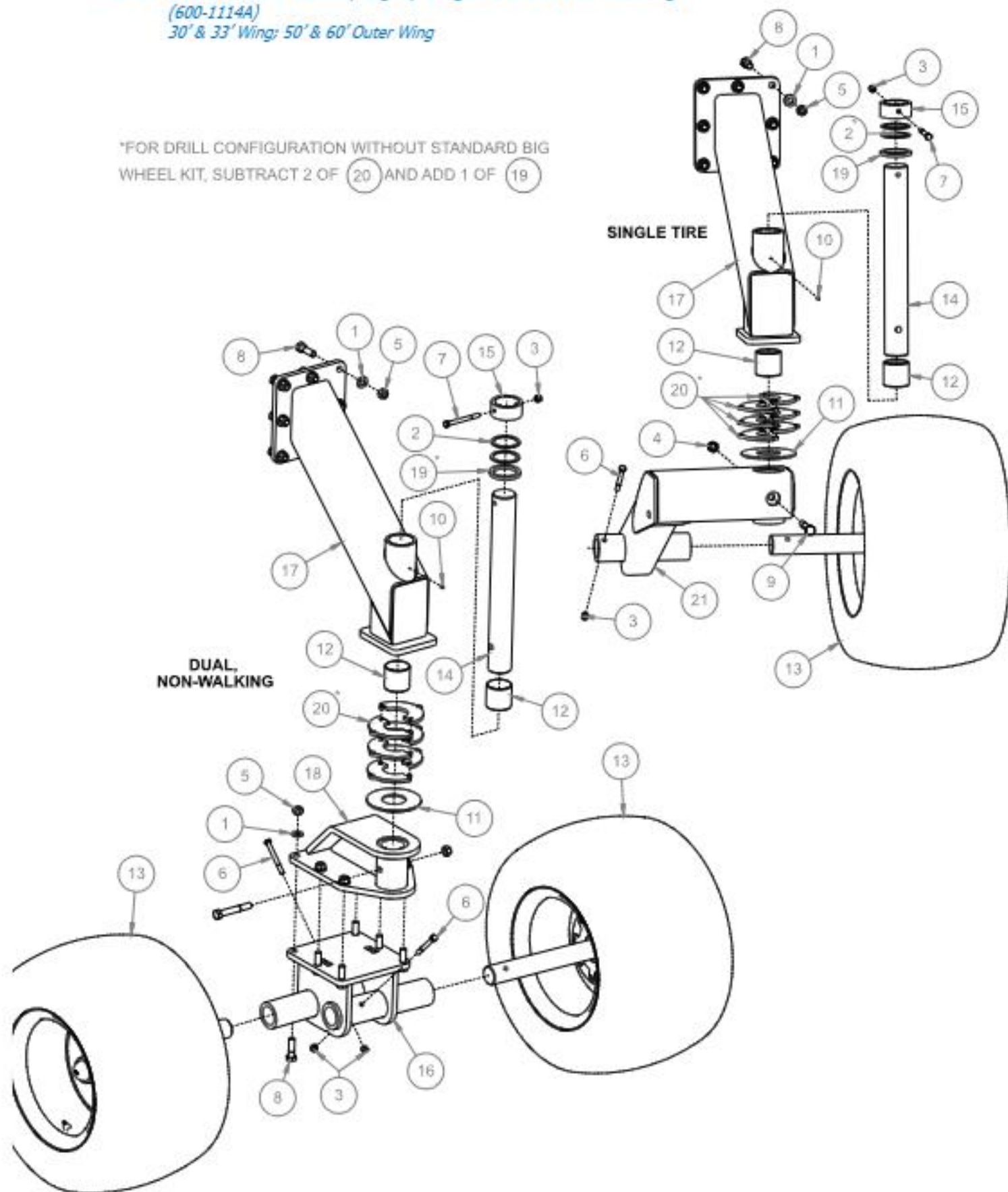
Parts Manual

3.5.3 Front Wheel Caster, Light, Single & Dual Non-walking

(600-1114A)

30' & 33' Wing; 50' & 60' Outer Wing

*FOR DRILL CONFIGURATION WITHOUT STANDARD BIG WHEEL KIT, SUBTRACT 2 OF (20) AND ADD 1 OF (19)



Parts Manual

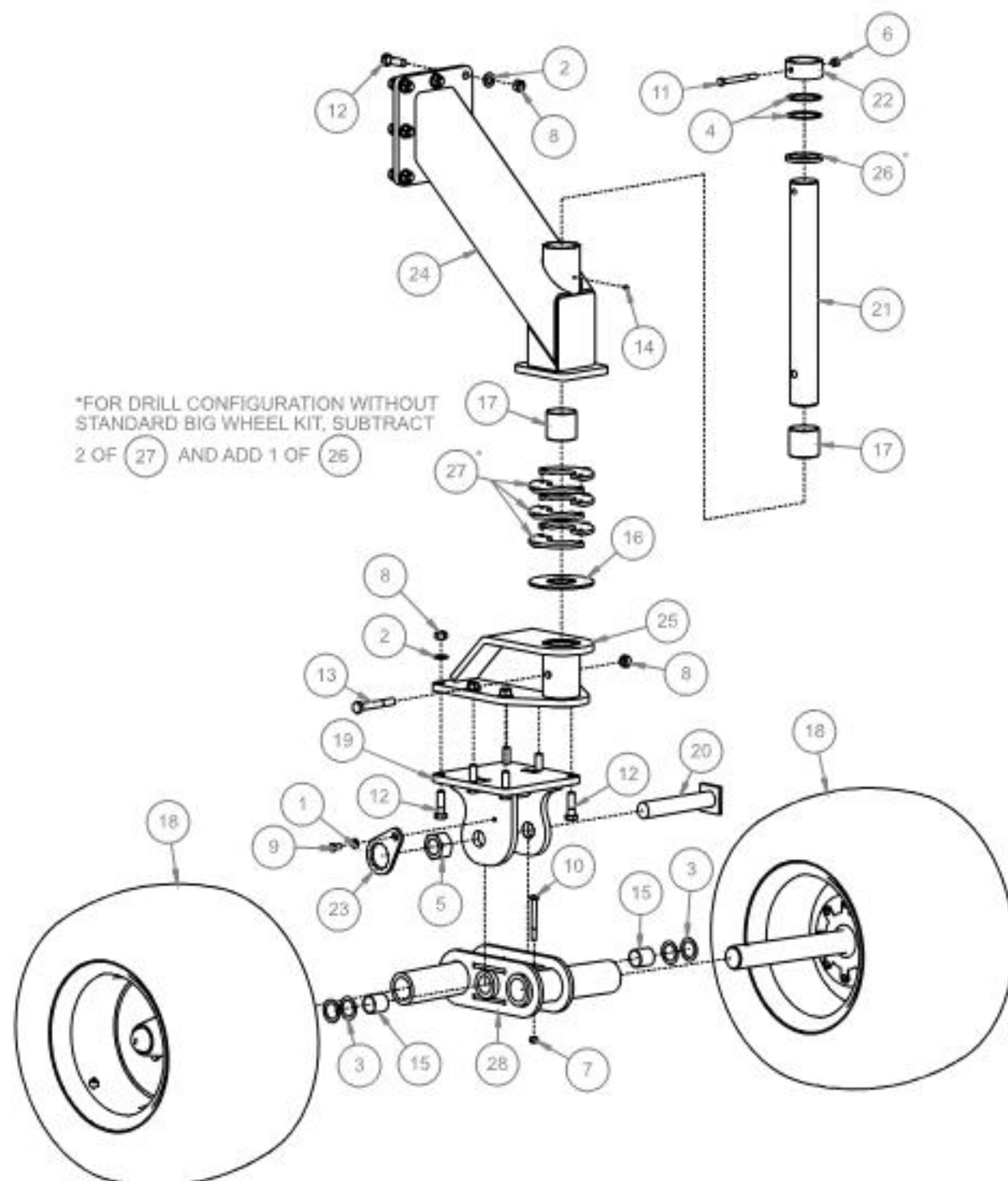
<i>Front Wheel Caster, Light, Single & Dual Non-walking</i>				
ITEM NO.	PART NUMBER	DESCRIPTION	NON-WALKING DUAL QTY	SINGLE TIRE QTY
1	102-008	WASHER, 3/4 PLATED SAE	13	7
2	105-004	WASHER, 3.03" ID x 3.75" OD x .105 THK YZ	2	2
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	3	2
4	114-008	LOCKNUT, 3/4" UNC NYL INS GR 2 YZ	-	1
5	118-042	STOVER NUT, 3/4 UNC GR C PLATED	14	7
6	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	2	1
7	125-117	BOLT, 1/2 X 5 UNC GR5 PLATED	1	1
8	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	13	7
9	130-192	BOLT, 3/4 X 5 UNC GR8 PLATED	1	1
10	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1	1
11	212-004	DISC, CASTER WEAR PLATE	1	1
12	212-070	TENSION BUSHING, 3" ID X 3-1/4" OD X 3" LG	2	2
13	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEE SEC. 3.4)	2	1
14	600-1029	CASTER PIN - 3/4" BOLT	1	1
15	600-1030	RETAINER, CASTER PIVOT	1	1
16	600-1047 600-1048	DUAL AXLE MOUNT, LH (NOT SHOWN) DUAL AXLE MOUNT, RH (SHOWN)	1	-
17		CASTER ARM, LIGHT	1	1
18	600-1304	ARM, CASTER, FRONT	1	-
19	600-1312*	CASTER RING	1	1
20	600-1316*	LEVELING SHIM, 3/8"	6	6
21	600-1318 600-1320	SINGLE CASTER ARM, RH, WIDE (SHOWN) SINGLE CASTER ARM, LH, WIDE (NOT SHOWN)	-	1

Parts Manual

3.5.4 Front Wheel Caster, Light, Dual Walking (Non-standard option)

(600-1114A)

30' & 33' Wing; 50' & 60' Outer Wing



Parts Manual

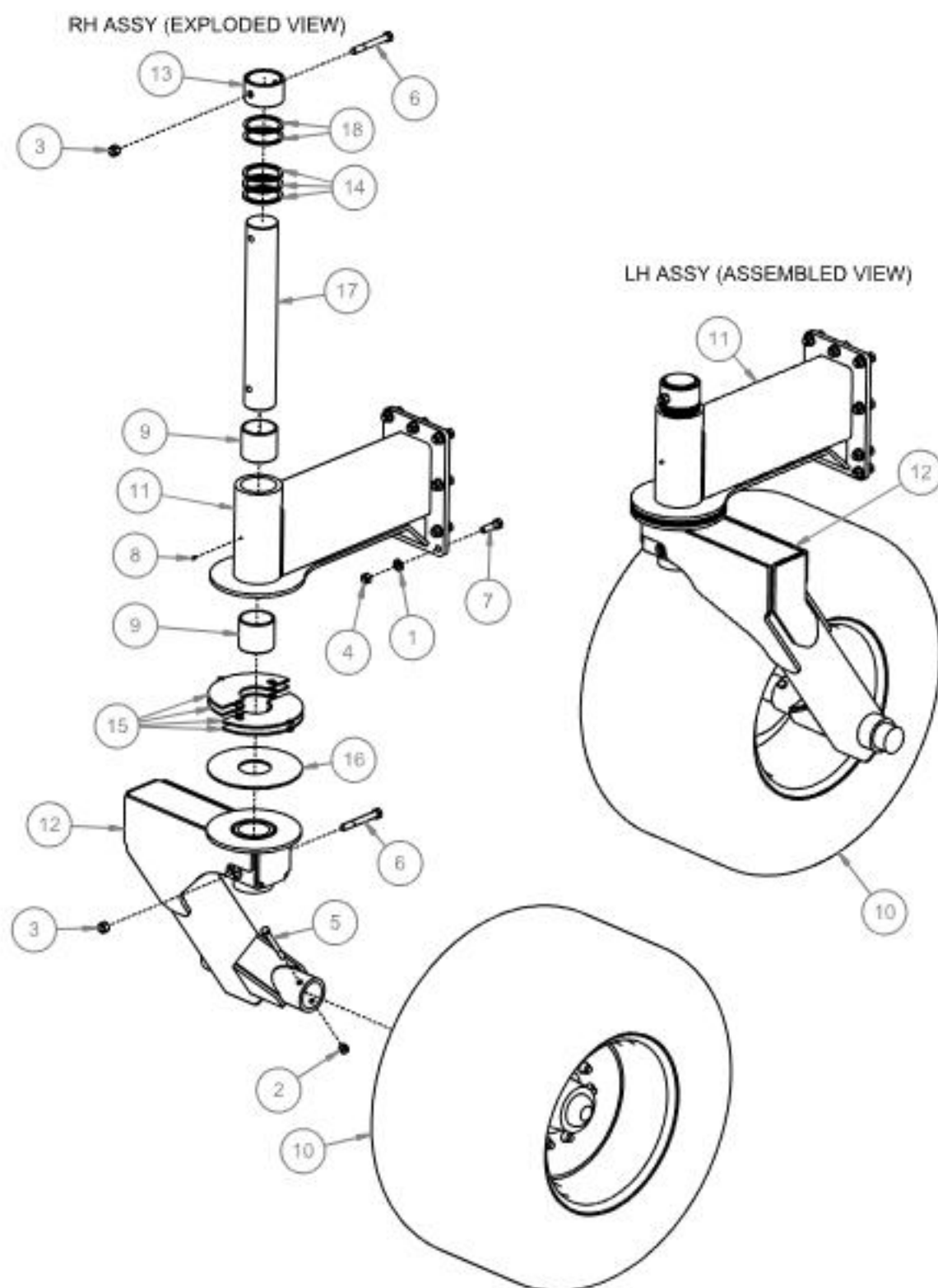
Front Wheel Caster, Light, Dual Walking

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-005	WASHER, 1/2 PLATED SAE	1
2	102-008	WASHER, 3/4 PLATED SAE	13
3	104-004	WASHER, 1-3/4 ID x 2-1/2 OD x 18GA	4
4	105-004	WASHER, 3.03" ID x 3.75" OD x .105 THK YZ	2
5	111-040	NUT, 1-3/4 UNF GR 8 PLATED	1
6	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
7	118-005	STOVER NUT, 1/2 UNC GR 2 PLATED	2
8	118-042	STOVER NUT, 3/4 UNC GR C PLATED	14
9	125-101	BOLT, 1/2 X 1 UNC GR5 PLATED	1
10	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	2
11	125-117	BOLT, 1/2 X 5 UNC GR5 PLATED	1
12	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	13
13	130-192	BOLT, 3/4 X 5 UNC GR8 PLATED	1
14	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1
15	206-503	BUSHING, igus Q25I-2831-32, 1-3/4" ID x 1-15/16" OD X 2" LG	2
16	212-004	DISC, CASTER WEAR PLATE	1
17	212-070	TENSION BUSHING, 3" ID X 3-1/4" OD X 3" LG	2
18	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEE SEC. 3.4)	2
19	600-1019 600-1021	WALKING AXLE MOUNT, RIGHT (SHOWN) WALKING AXLE MOUNT, LEFT (NOT SHOWN)	1
20	600-1023	WALKING AXLE PIN, PLAIN BRGS	1
21	600-1029	CASTER PIN - 3/4" BOLT	1
22	600-1030	RETAINER, CASTER PIVOT	1
23	600-1071	ROTATION LOCK, 1-3/4" NUT	1
24	600-1114	CASTER ARM, LIGHT	1
25	600-1304	ARM, CASTER, FRONT	1
26	600-1312*	CASTER RING	1
27	600-1316*	LEVELING SHIM, 3/8"	6
28	600-1339 600-1340	WALKING AXLE, RH, EXTENDED, LIGHT, PLAIN BRGS (SHOWN) WALKING AXLE, LH, EXTENDED, LIGHT, PLAIN BRGS (NOT SHOWN)	1

3.5.5 Front Wheel Caster, Single Large

(600-1350A)

Option for 40', 50' & 60' Center Section and Inner Wings

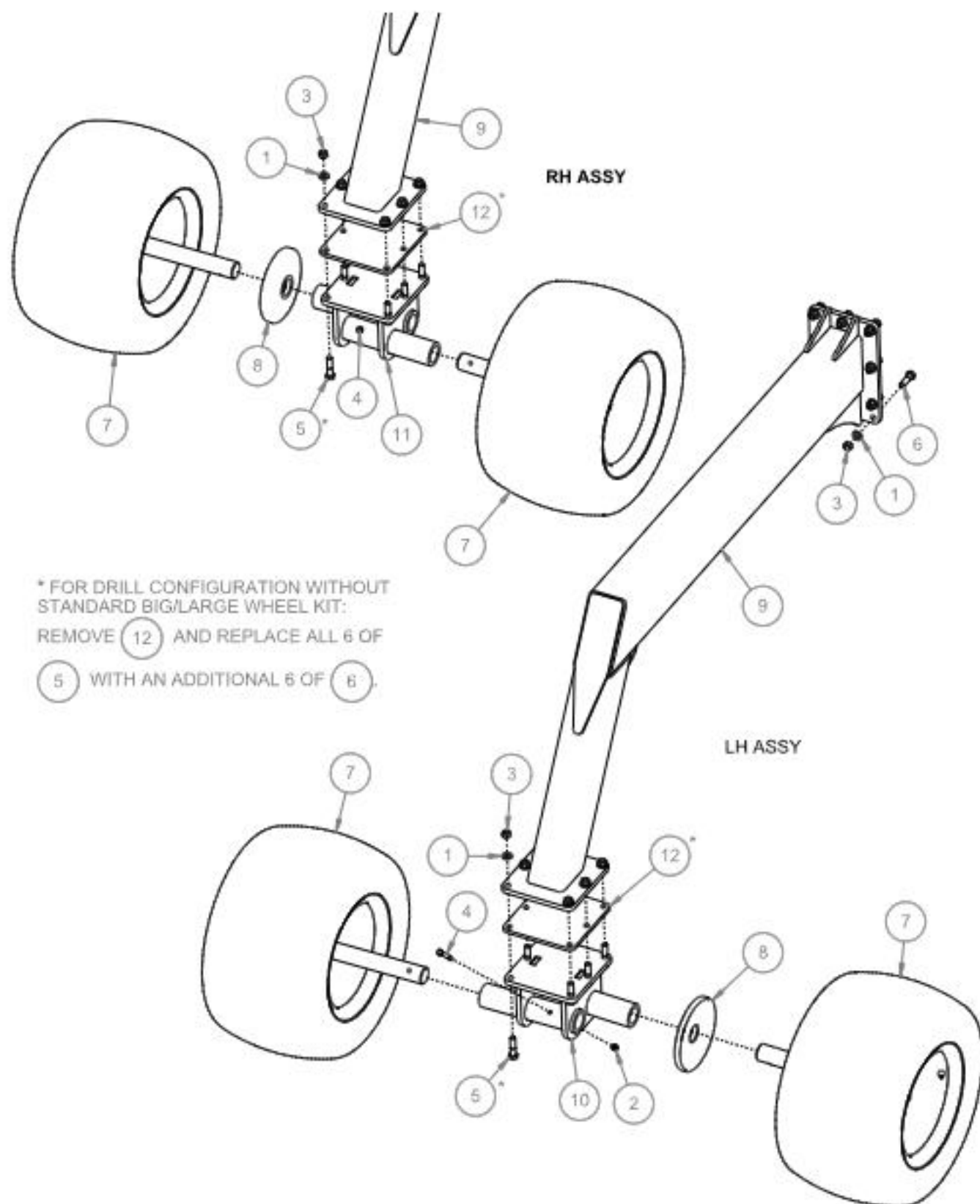


Parts Manual

Front Wheel Caster, Single Large

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-008	WASHER, 3/4 PLATED SAE	9
2	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	1
3	114-008	LOCKNUT, 3/4" UNC NYL INS GR 2 YZ	2
4	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	9
5	125-169	BOLT, 5/8 X 5-1/2 UNC GR5 PLATED	1
6	125-196	BOLT, 3/4 X 6 UNC GR5 PLATED	2
7	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	9
8	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1
9	212-071	TENSION BUSHING, 4" ID X 4-1/2" OD X 4" LG	2
10	212-591A	15,000 lb SPINDLE & TIRE ASSY ("SINGLE LARGE") <i>(SEE SEC. 3.4)</i>	1
11	600-1350	LARGE WHEEL CASTER MOUNT	1
12	600-1351 600-1352	CASTER ARM, LARGE TIRE, LH <i>(SHOWN ASSEMBLED)</i> CASTER ARM, LARGE TIRE, RH <i>(SHOWN EXPLODED VIEW)</i>	1
13	600-1356	CASTER COLLAR, 4"	1
14	600-1357	CASTER RING, 1/4"	3
15	600-1358	LEVELING SHIM, 1/4", LARGE	4
16	600-1359	DISC, CASTER WEAR PLATE	1
17	600-1366	CASTER PIN, LARGE WHEEL	1
18	600-1369	CASTER RING, 3/16"	2

3.5.6 Rear Wheel Arm, Heavy (600-1045A) 40' Wing; 50' & 60' Inner Wing



Parts Manual

<i>Rear Wheel Arm, Heavy</i>				
ITEM NO.	PART NUMBER	DESCRIPTION	RH QTY	LH QTY
1	102-008	WASHER, 3/4 PLATED SAE	15	15
2	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2	2
3	118-042	STOVER NUT, 3/4 UNC GR C PLATED	15	15
4	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	2	2
5	125-747*	BOLT, 3/4 X 3 UNC GR8 PLATED	6	6
6	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	9	9
7	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEC. 3.3)	2	2
8	212-229	RAIN SHIELD, 6000# HUB	1	1
9	600-1045	REAR WHEEL ARM "HEAVY"	1	1
10	600-1047	DUAL AXLE MOUNT, LH	-	1
11	600-1048	DUAL AXLE MOUNT, RH	1	-
12	600-1365-01	RETROFIT SPACER PLATE	1	1

3.5.7 Rear Wheel Arm, Light

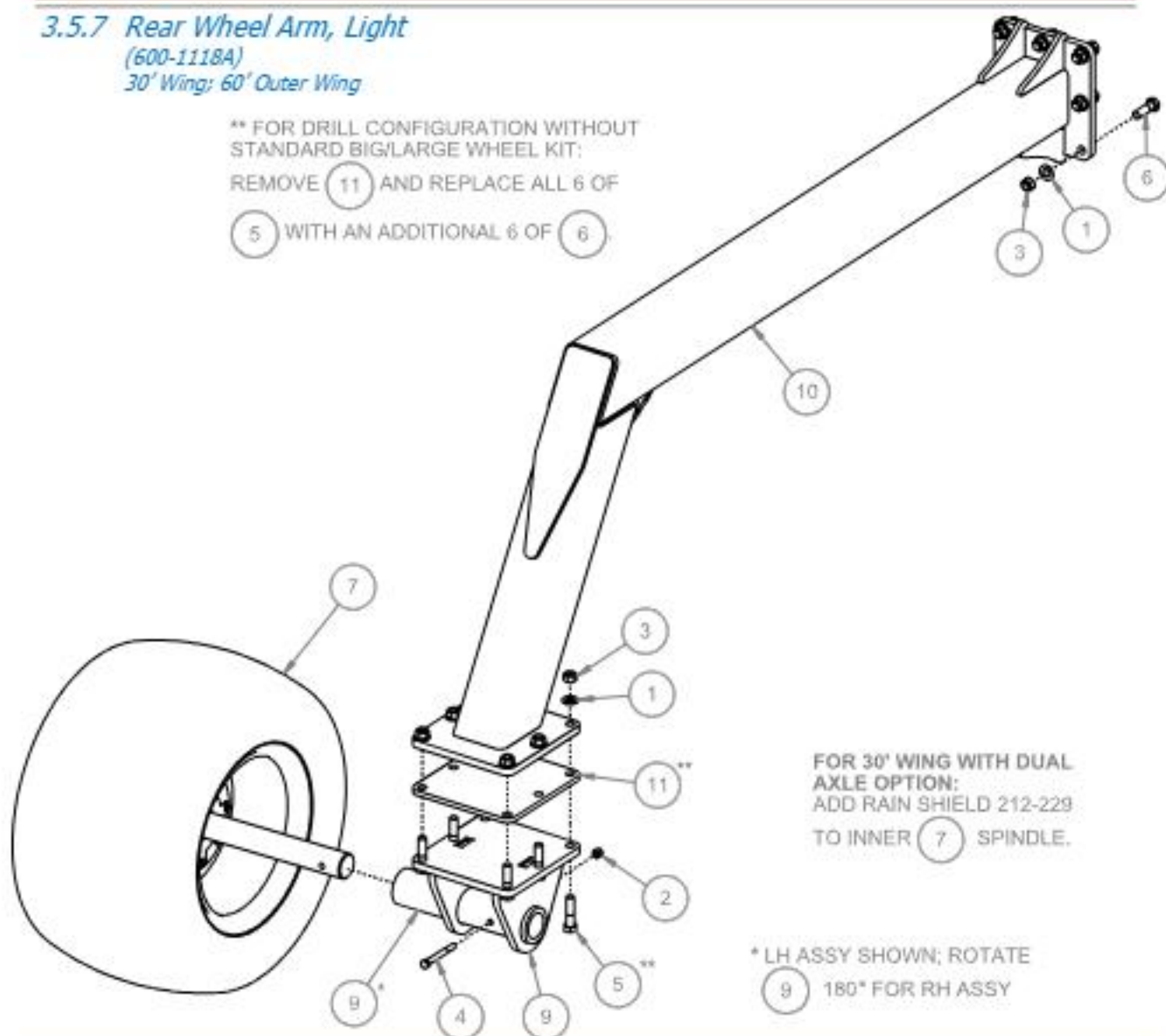
(600-1118A)

30' Wing; 60' Outer Wing

** FOR DRILL CONFIGURATION WITHOUT STANDARD BIG/LARGE WHEEL KIT:

REMOVE (11) AND REPLACE ALL 6 OF

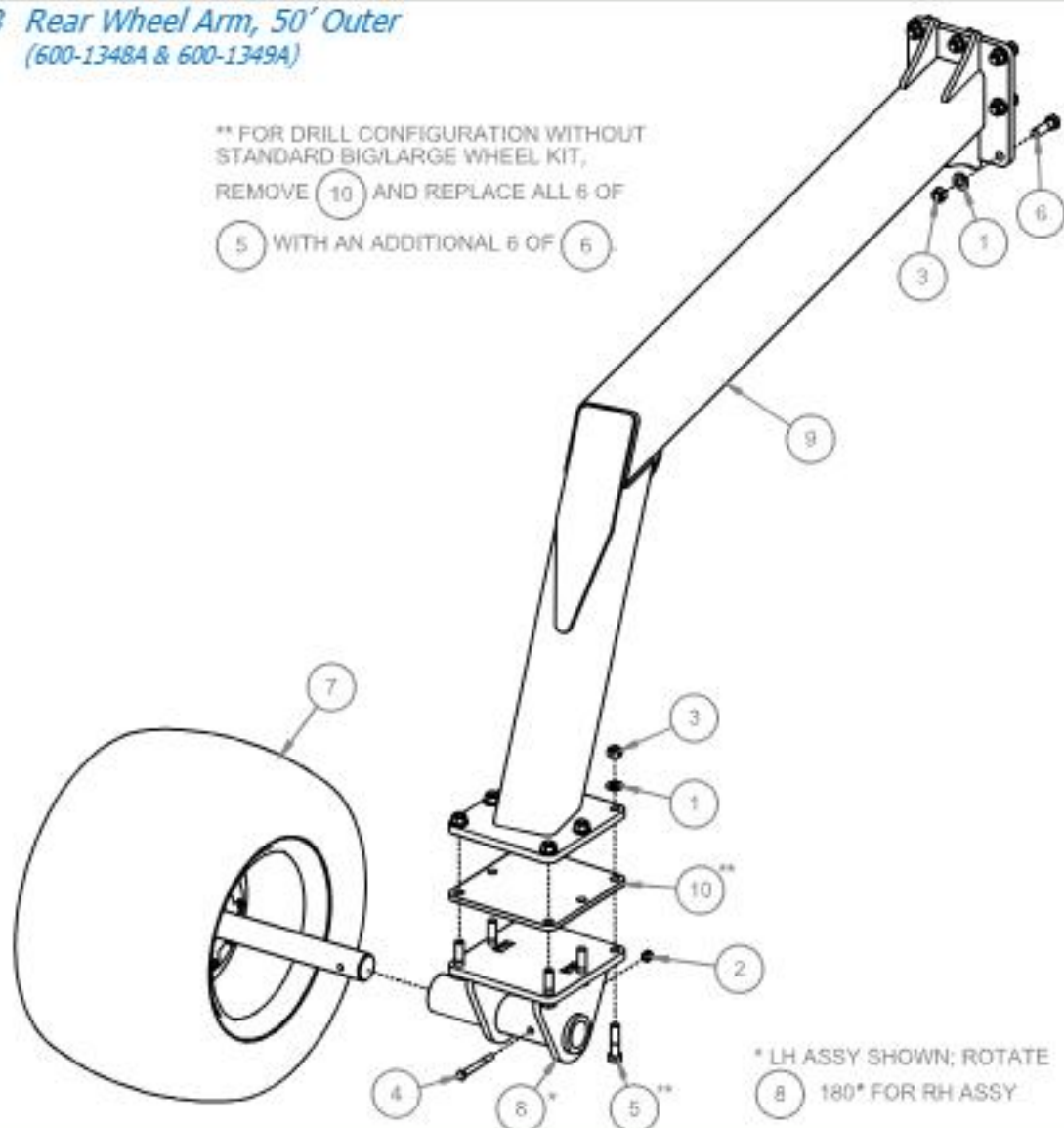
(5) WITH AN ADDITIONAL 6 OF (6).



Rear Wheel Arm, Light

ITEM NO.	PART NUMBER	DESCRIPTION	Single Axle QTY	Dual Axle QTY
1	102-008	WASHER, 3/4 PLATED SAE	14	14
2	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1	2
3	118-042	STOVER NUT, 3/4 UNC GR C PLATED	14	14
4	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	1	2
5	125-747**	BOLT, 3/4 X 3 UNC GR8 PLATED	6	6
6	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	8	8
7	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEC. 3.3)	1	2
8	600-1047 600-1048	DUAL AXLE MOUNT, LH (NOT SHOWN) DUAL AXLE MOUNT, RH (NOT SHOWN)	-	1
9	600-1116	AXLE MOUNT, SINGLE	1	-
10	600-1118	REAR WHEEL ARM "LIGHT"	1	1
11	600-1365-01**	RETROFIT SPACER PLATE	1	1

3.5.8 Rear Wheel Arm, 50' Outer (600-1348A & 600-1349A)

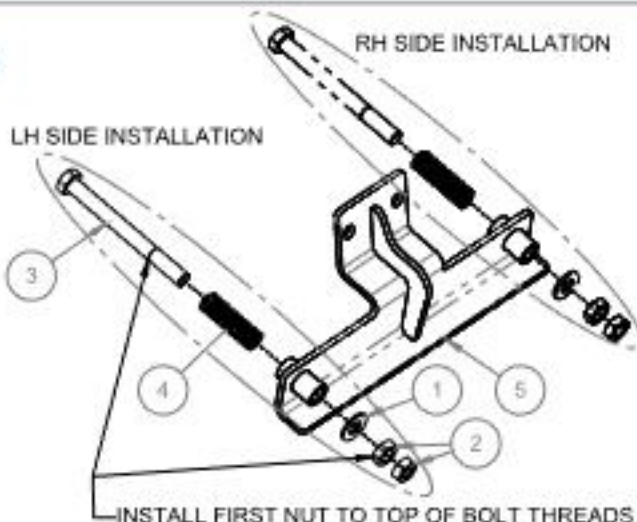


Rear Wheel Arm, 50' Outer

ITEM NO.	PART NUMBER	DESCRIPTION	Single Axle QTY
1	102-008	WASHER, 3/4 PLATED SAE	14
2	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	1
3	118-042	STOVER NUT, 3/4 UNC GR C PLATED	14
4	125-115	BOLT, 1/2 X 4-1/2 UNC GR5 PLATED	1
5	125-747**	BOLT, 3/4 X 3 UNC GR8 PLATED	6
6	130-182	BOLT, 3/4 X 2-1/2 UNC GR8 PLATED	8
7	212-157A	6,000 lb SPINDLE ("LIGHT") & TIRE ASSY (SEC. 3.3)	1
8	600-1116	AXLE MOUNT, SINGLE	1
9	600-1348 600-1349	WHEEL ARM, REAR OUTER 50', LH (SHOWN) WHEEL ARM, REAR OUTER 50', RH (NOT SHOWN)	1
10	600-1365-01**	RETROFIT SPACER PLATE	1

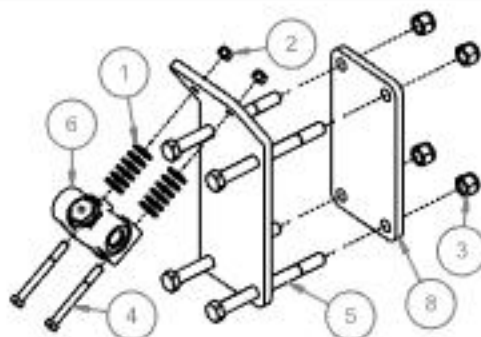
Parts Manual

3.6 Plunger (600-3017; used on 60ft only)



Plunger			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	102-007	WASHER, 5/8 PLATED SAE	1
2	112-007	JAM NUT, 5/8 UNC GR 2 PLATED	2
3	125-173	BOLT, 5/8 X 6-1/2 UNC GR5 PLATED	1
4	212-169	COMP. SPRING, 0.105 WIRE, 7/8" PD, 3" FL, DYNALINE P/N: 24792	1
5	600-3018	MOUNT, STOP VALVE PLUNGER	1

3.7 Stop Mount Plate (600-3021; used on 60ft only)

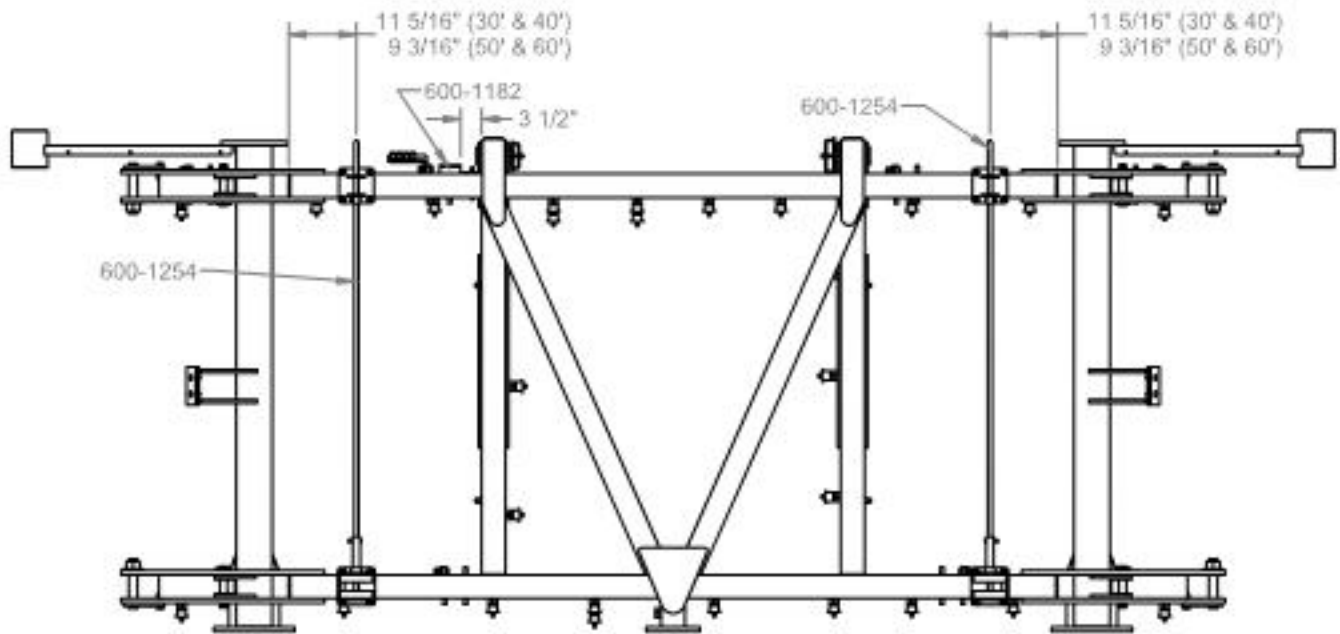


Stop Mount Plate			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-002	WASHER, 5/16 PLATED ASME WIDE	12
2	114-002	LOCKNUT, 5/16" UNC NYL INS GR 2 YZ	2
3	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	4
4	125-035	BOLT, 5/16 X 3 UNC GR5 PLATED	2
5	125-119	BOLT, 1/2 X 5-1/2 UNC GR5 PLATED	4
6	212-324	PRINCE STROKE CONTROL VALVE, P/N: PM-SC-10	1
7	600-3020	BASE PLATE	1
8	600-3022	CLAMP PLATE	1

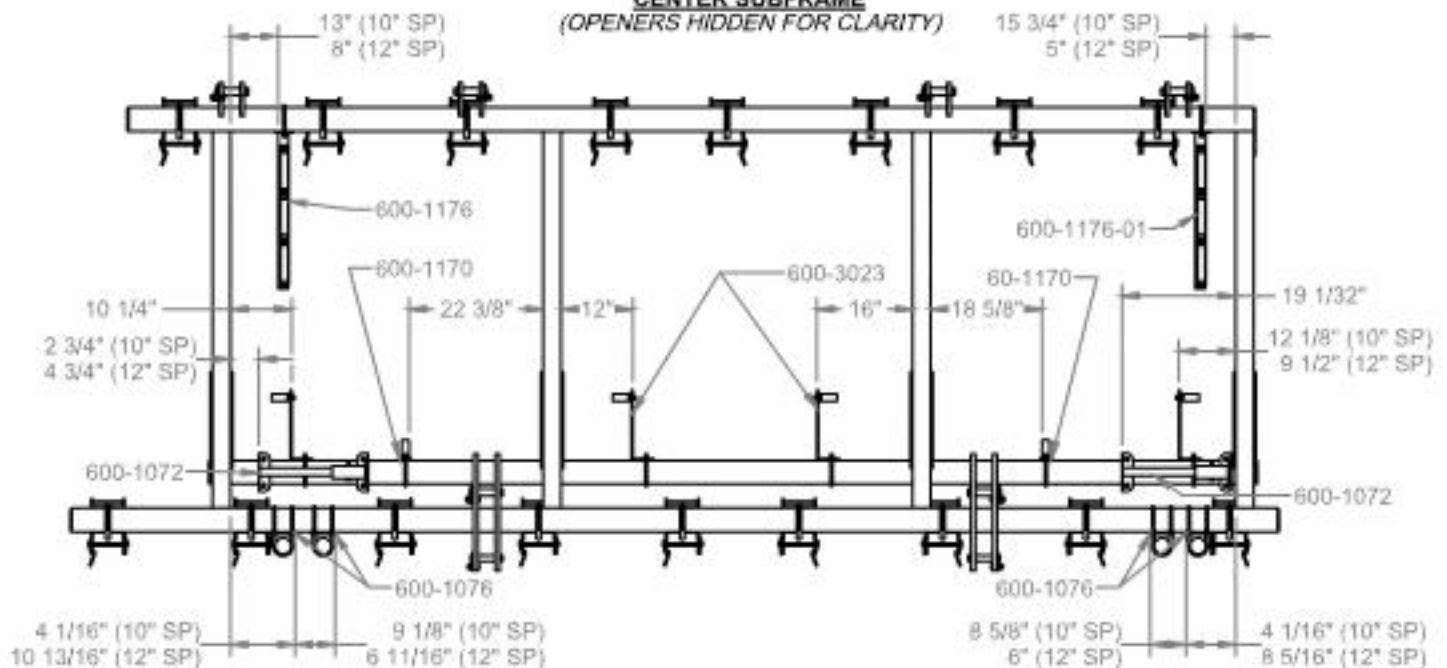
4 Positioning of Assemblies

4.1 Center Frame / Subframe (600-1104A & 600-1140A)

CENTER FRAME



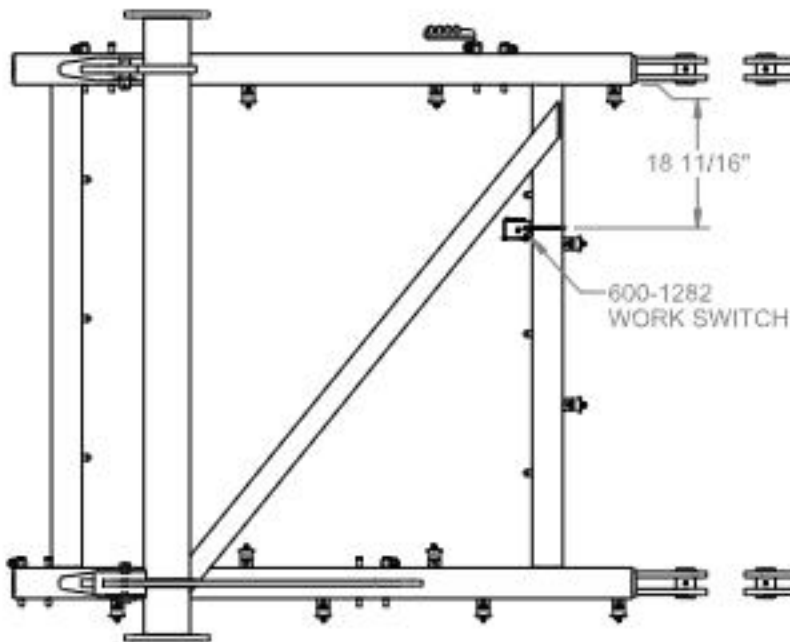
**CENTER SUBFRAME
(OPENERS HIDDEN FOR CLARITY)**



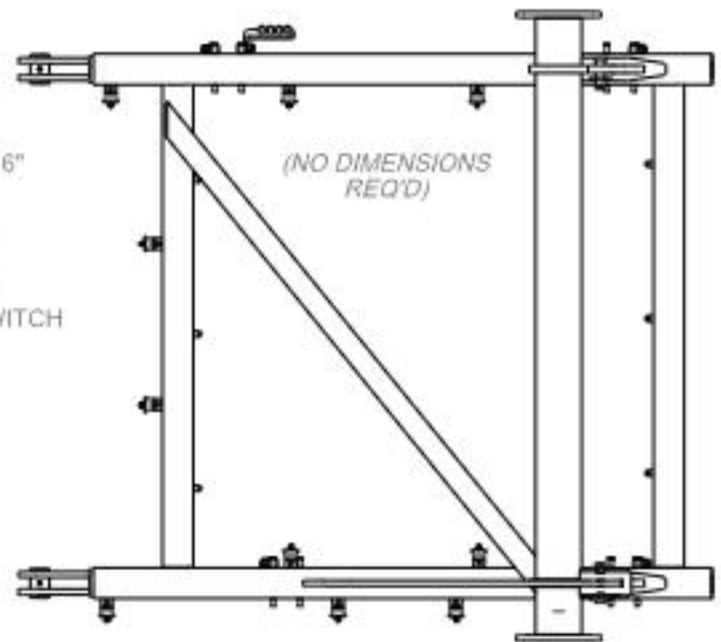
Parts Manual

4.2 30' Wing Frames / Subframes (600-3001A, 600-3003A, 600-3012A, 600-3014A)

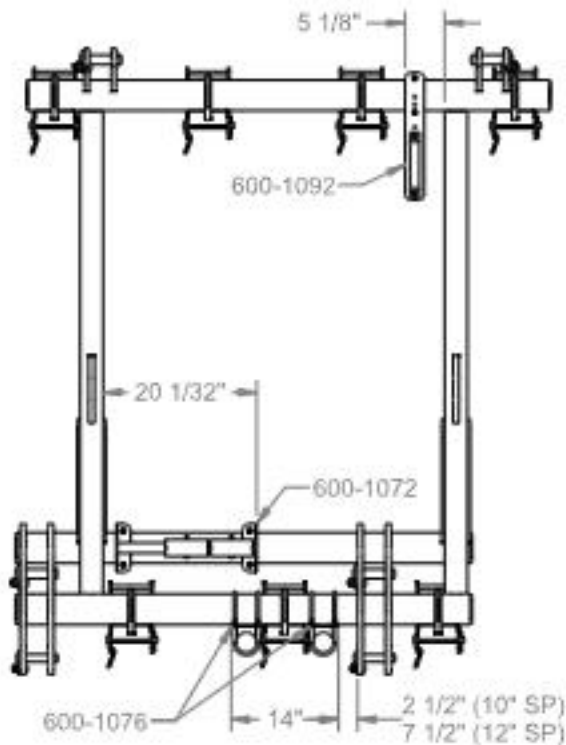
LH WING FRAME



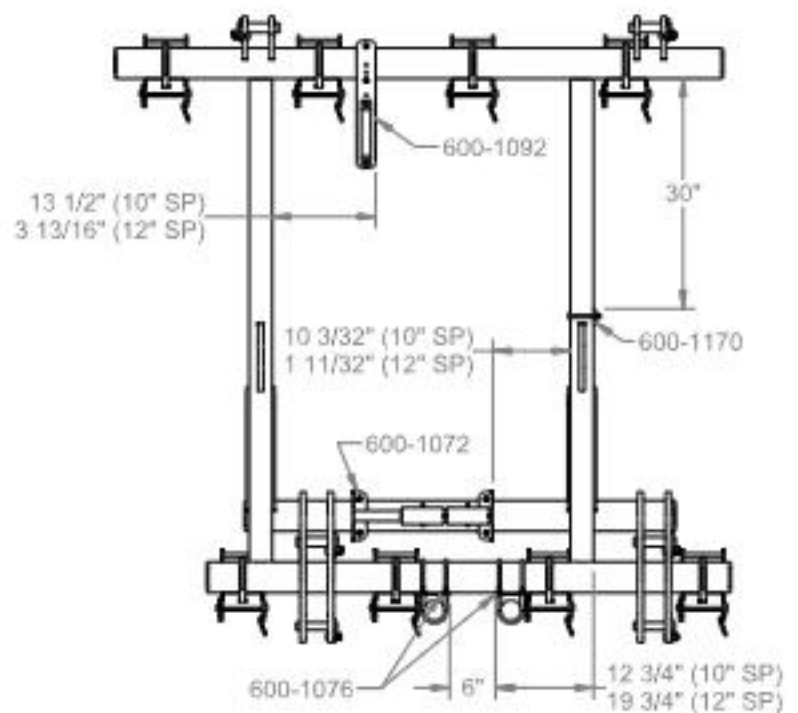
RH WING FRAME



LH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)

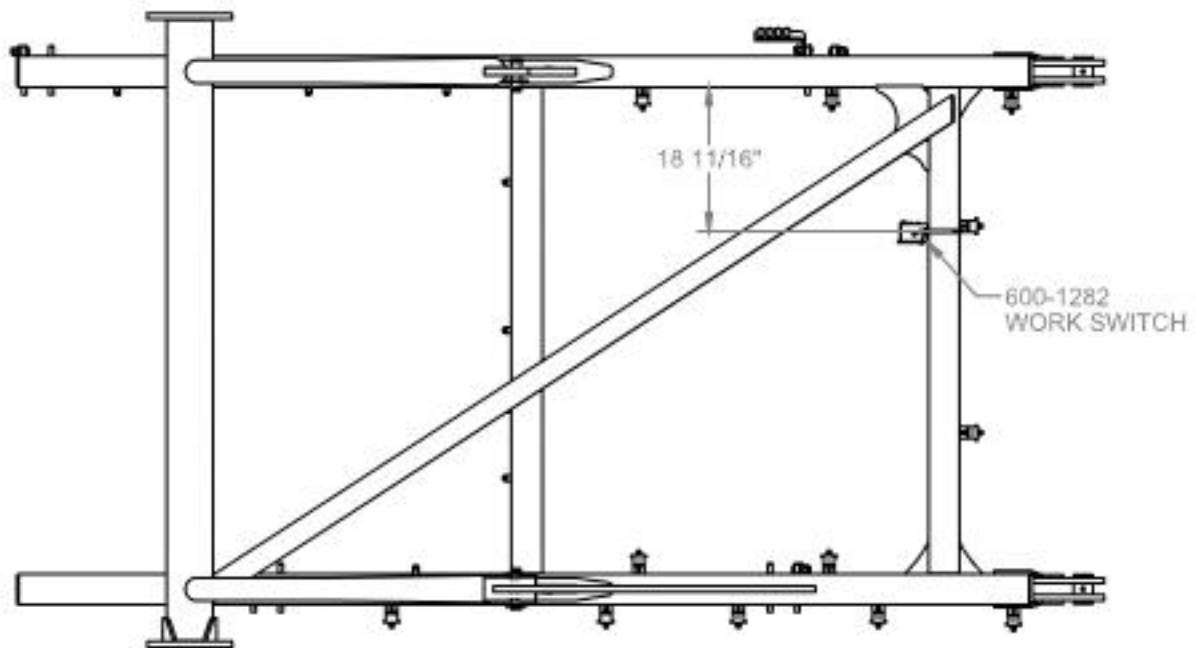


RH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)

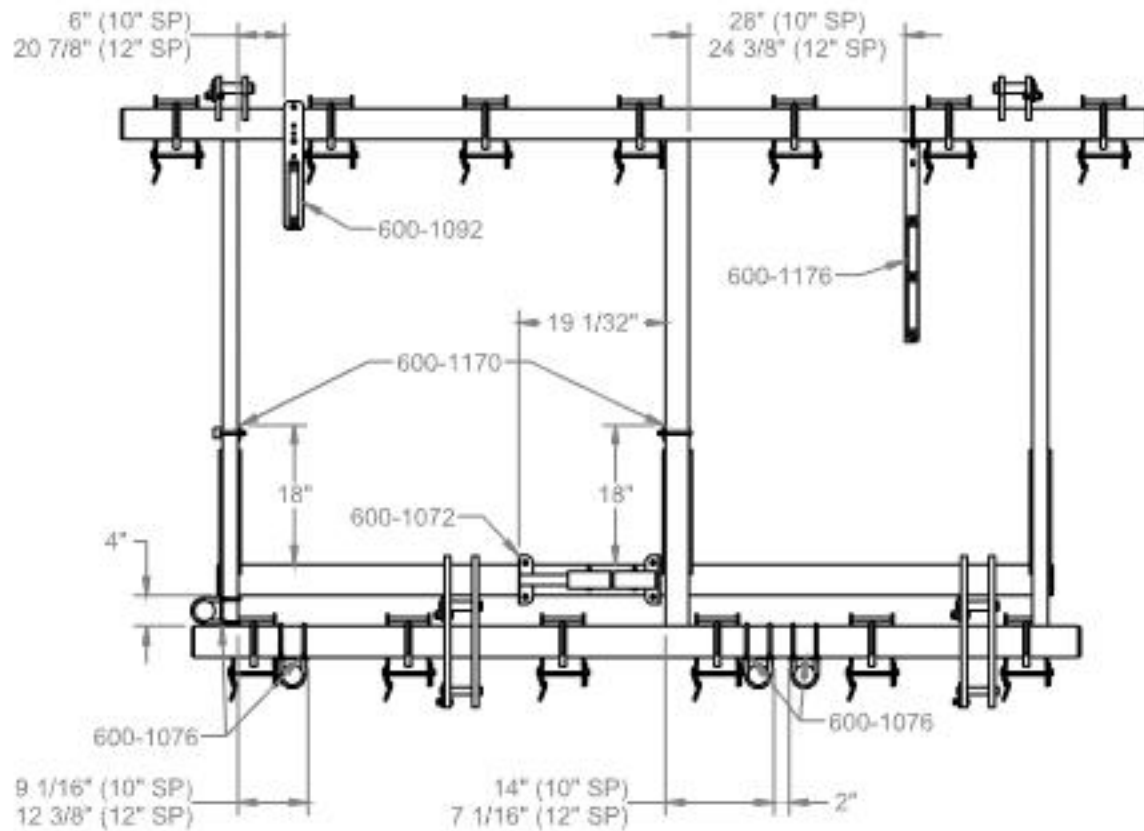


4.3 40' LH Wing Frame / Subframe (600-1098A & 600-1122A)

LH WING FRAME

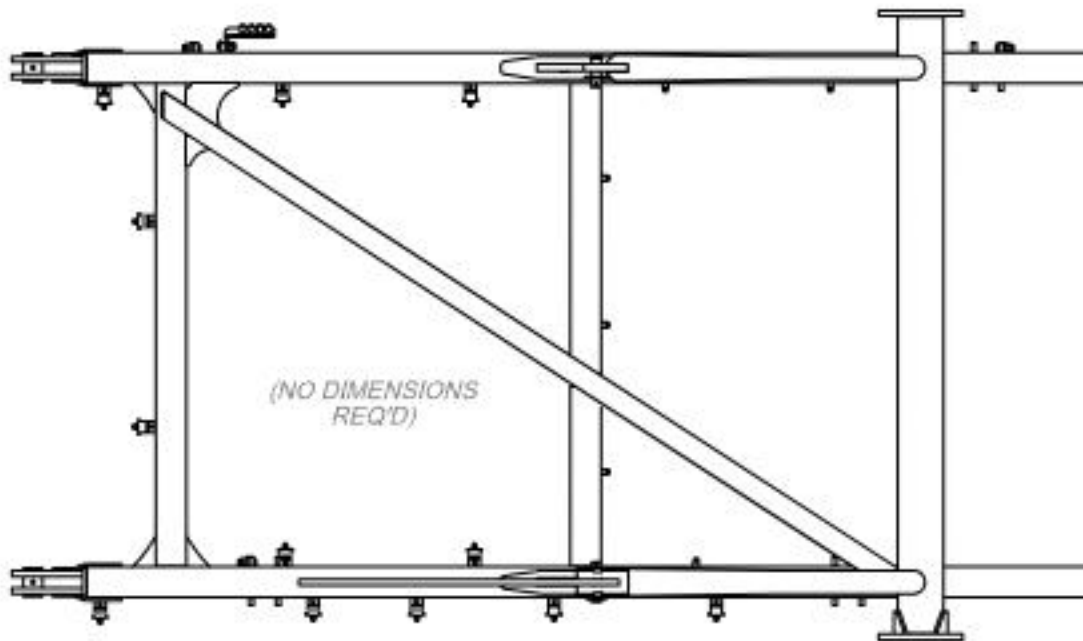


LH SUBFRAME (OPENERS HIDDEN FOR CLARITY)

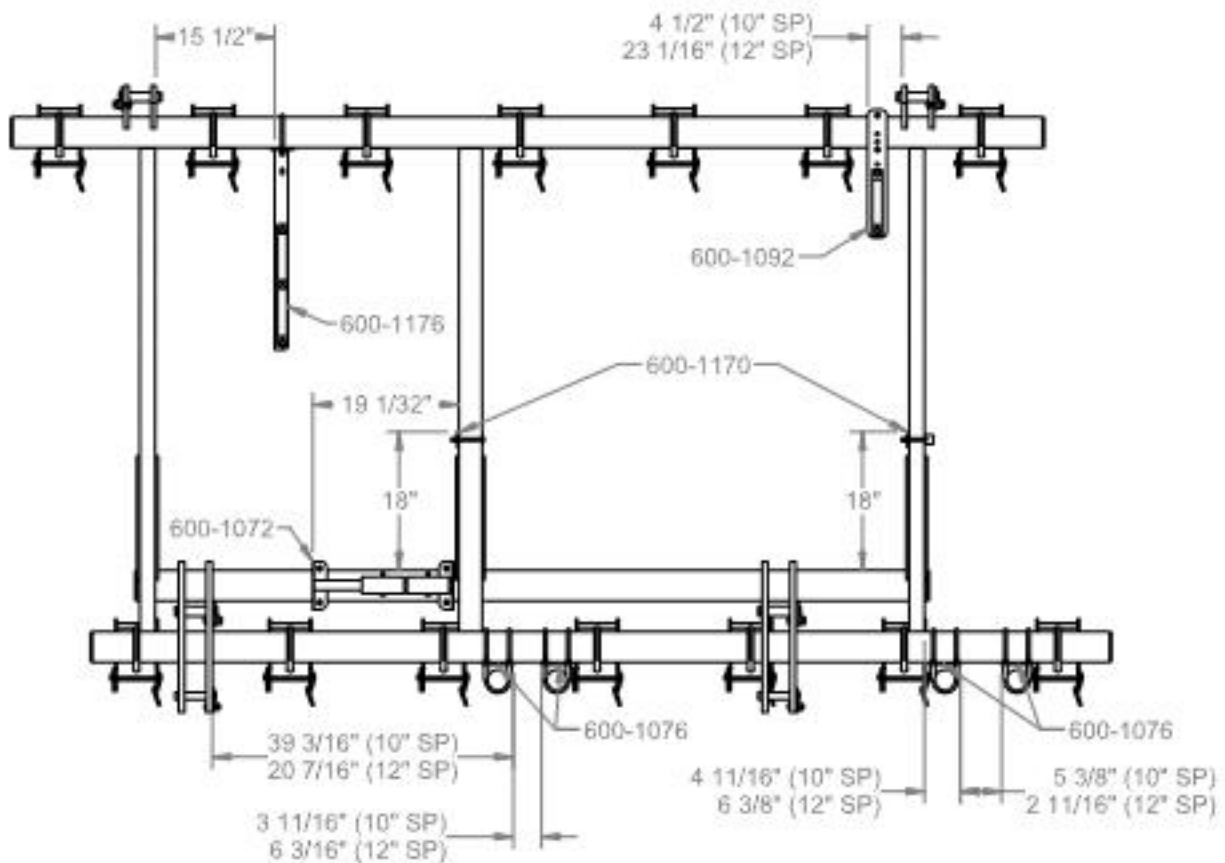


4.4 40' RH Wing Frame / Subframe (600-1094A & 600-1108A)

RH WING FRAME



RH SUBFRAME (OPENERS HIDDEN FOR CLARITY)



4.5 50' & 60' Inner LH Wing Frame / Subframe (600-1098A & 600-1120A)

Diagram illustrating the 60' Work Switch assembly. Key dimensions and components are labeled:

- 19 1/16"
- 23 1/2"
- 600-1282 WORK SWITCH
- 600-3021 STOP MOUNT PLATE (60' ONLY)

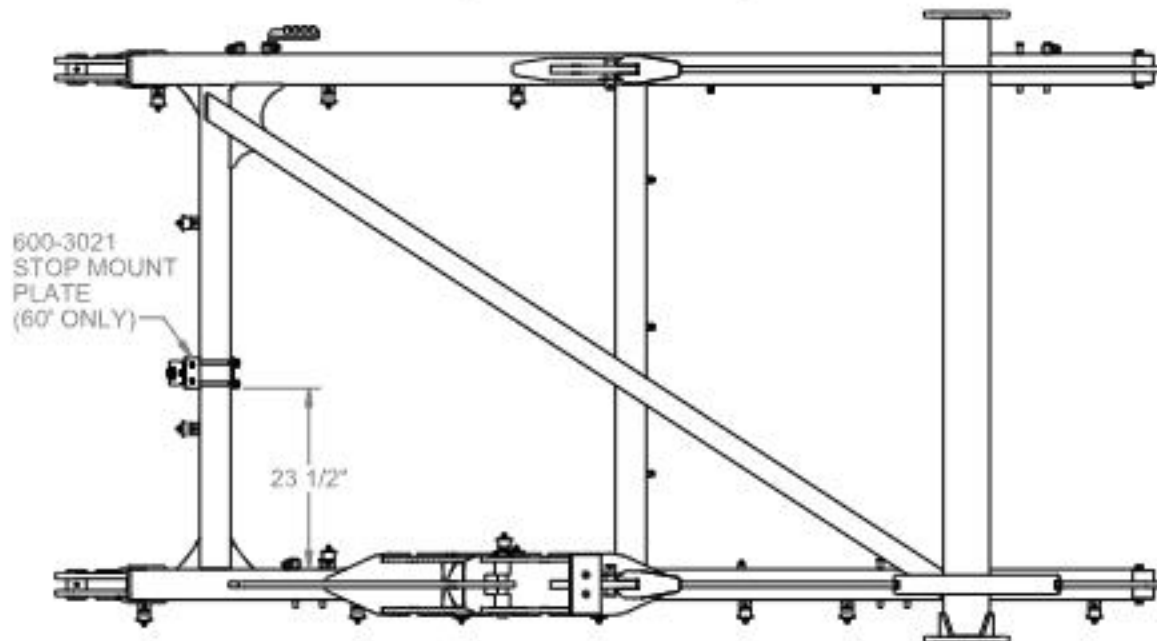
Technical drawing of a rectangular frame assembly, likely a component of a vehicle interior. The drawing shows a top-down view of the frame structure, including the main rails and cross members. Key dimensions and part numbers are indicated:

- Top Rail Dimensions:**
 - Left section: 16" (10" SP) and 21 3/8" (12" SP)
 - Right section: 28" (10" SP) and 24 3/8" (12" SP)
- Vertical Spacing:** 3 1/4"
- Internal Width Dimensions:**
 - Top: 19 1/32"
 - Bottom: 18" (twice, on either side of the central cross member)
- Bottom Rail Dimensions:**
 - Left section: 9 1/16" (10" SP) and 12 3/8" (12" SP)
 - Right section: 14" (10" SP) and 7 1/16" (12" SP)
 - Far right: 2"
- Part Numbers:**
 - 600-1176: Points to vertical support posts.
 - 600-1170: Points to the main top rail.
 - 600-1072: Points to the central cross member.
 - 600-1076: Points to the bottom rail.

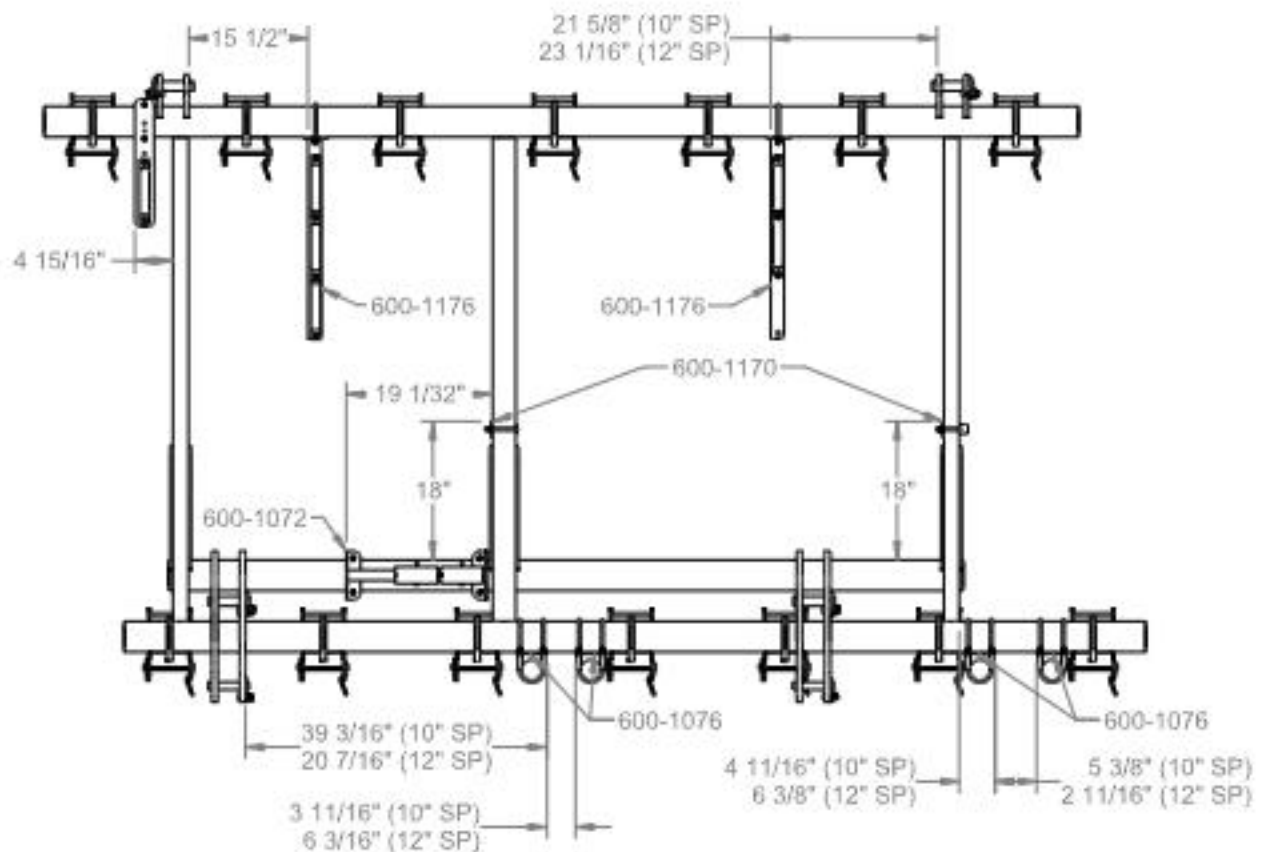
Parts Manual

4.6 50' & 60' Inner RH Wing Frame / Subframe (600-1094A & 600-1106A)

INNER RH WING FRAME



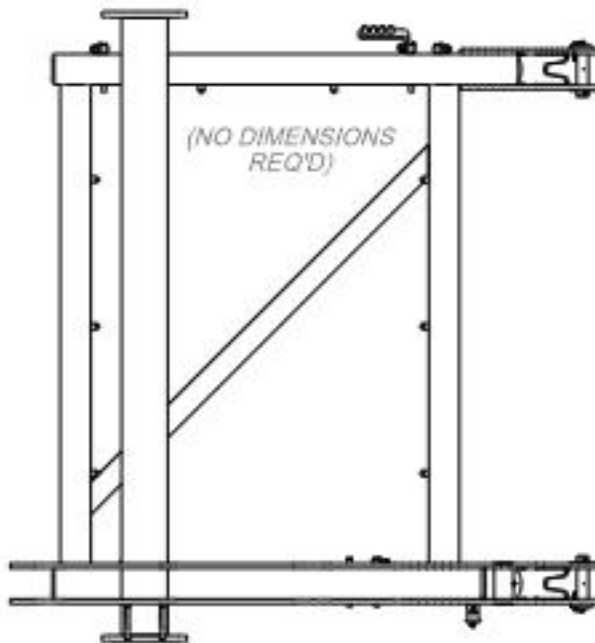
INNER RH SUBFRAME (OPENERS HIDDEN FOR CLARITY)



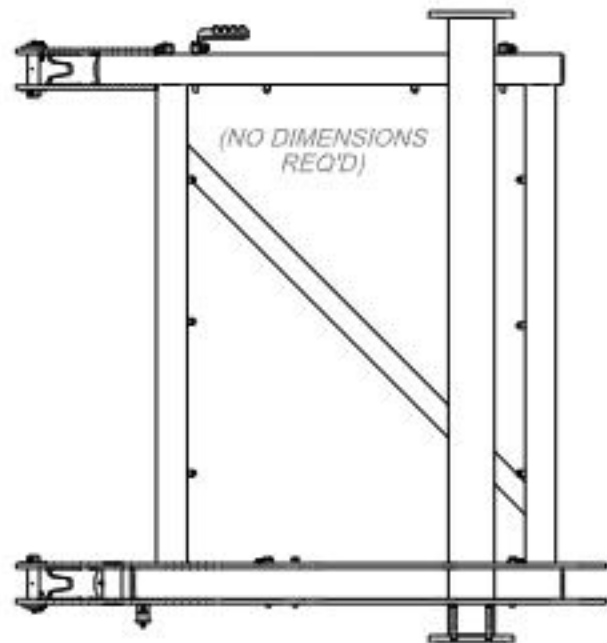
Parts Manual

4.7 50' Outer Wing Frames / Subframes (600-1200A, 600-1205A, 600-1212A, & 600-1214A)

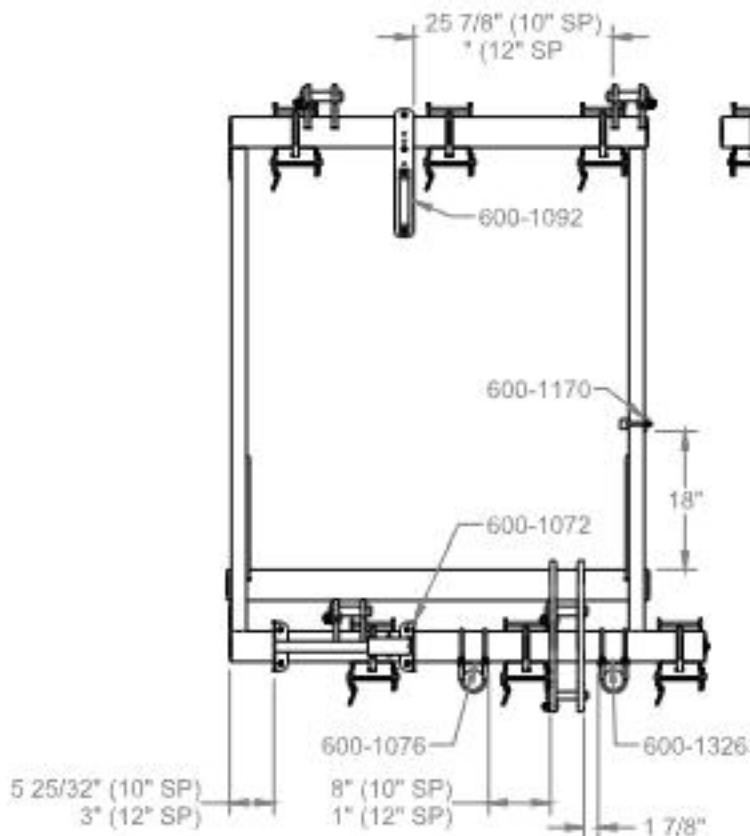
OUTER LH WING FRAME



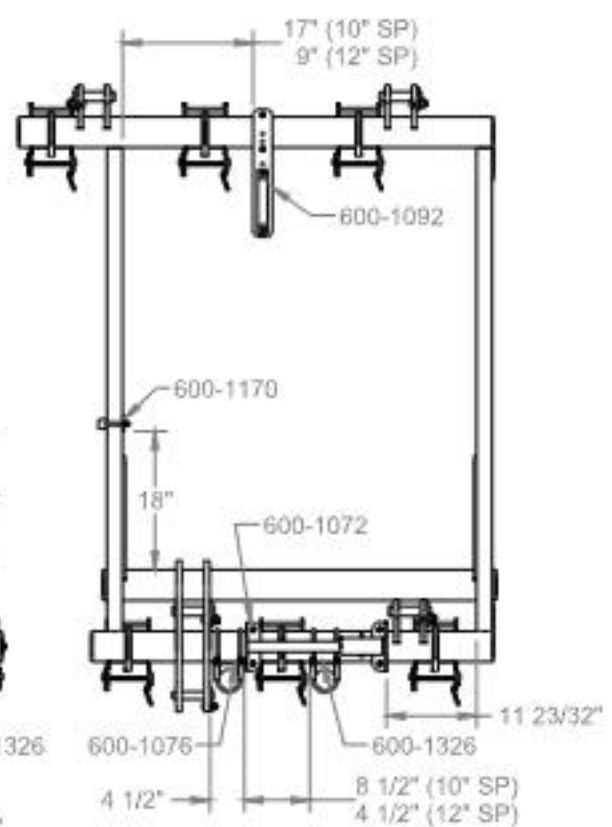
OUTER RH WING FRAME



**OUTER LH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)**



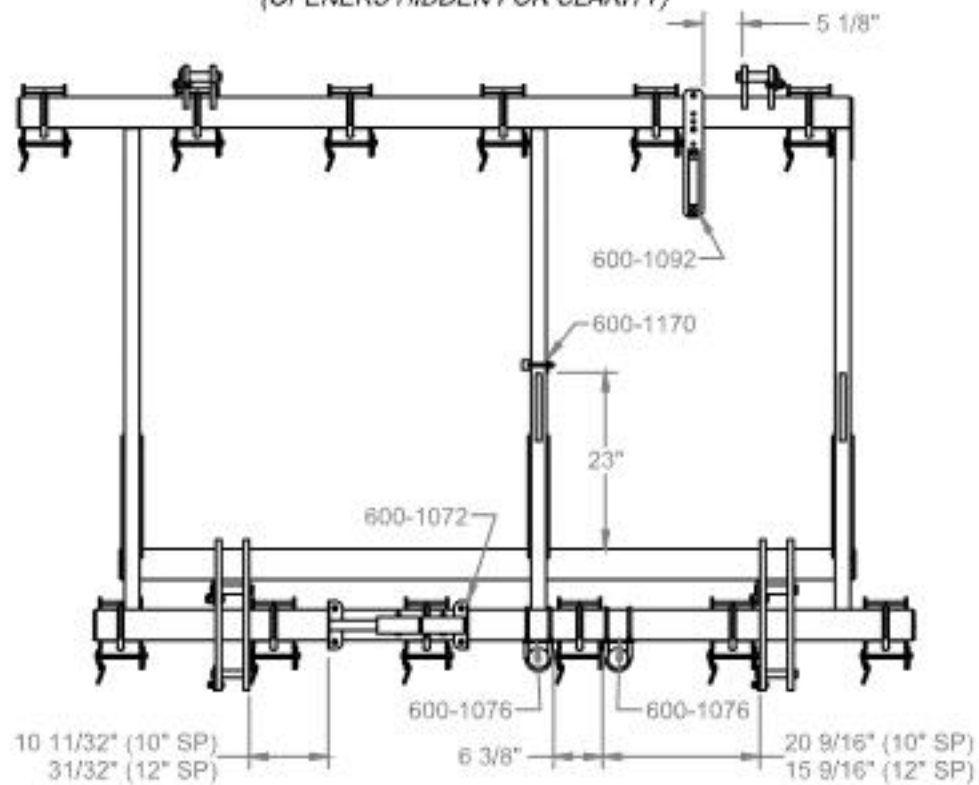
**OUTER RH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)**



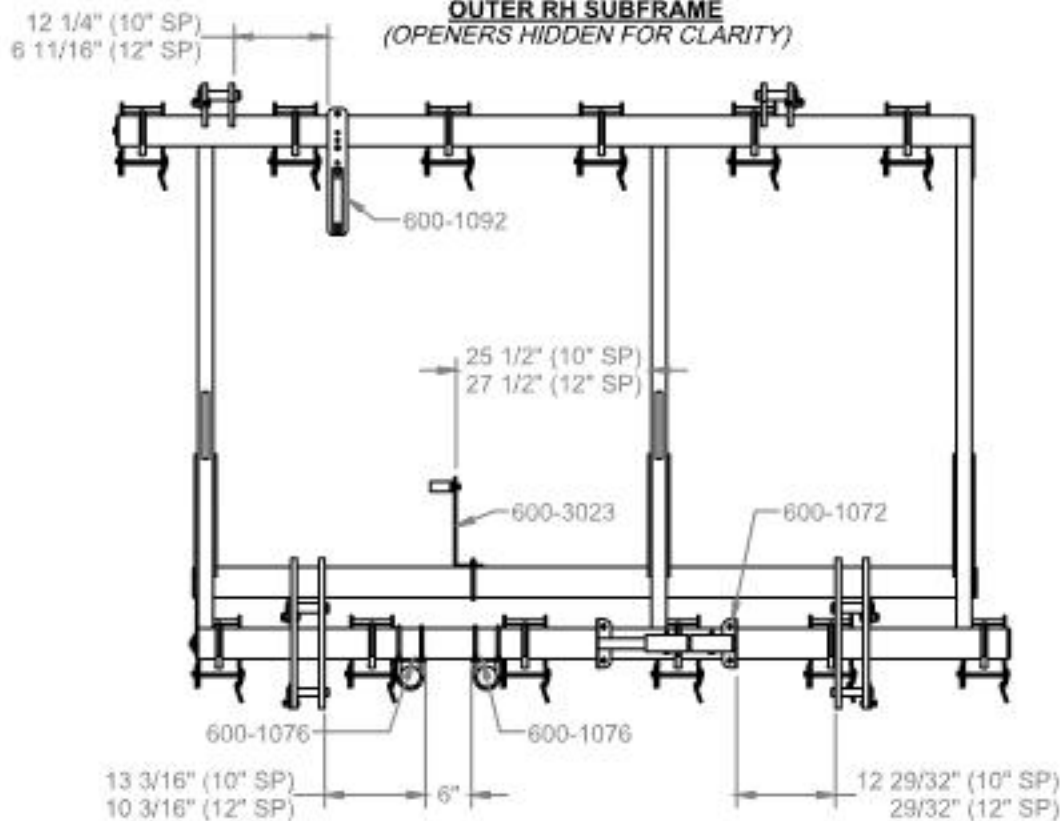
4.8 60' Outer Wing Subframes

(600-1112A, 600-1152A; no dimensional parts on wing frames)

OUTER LH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)

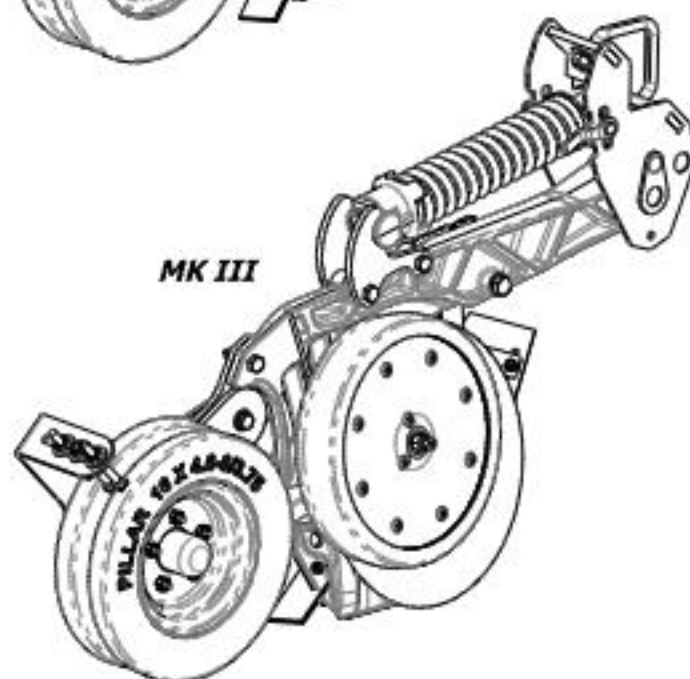
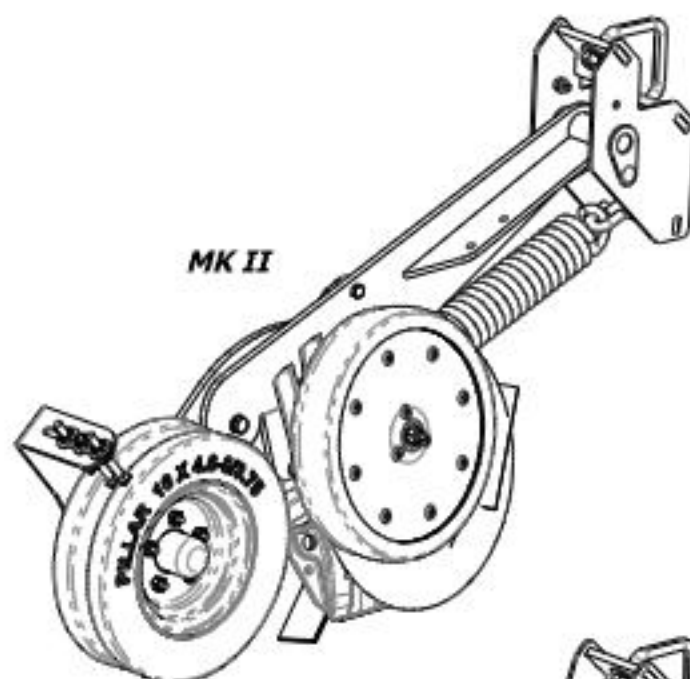


OUTER RH SUBFRAME
(OPENERS HIDDEN FOR CLARITY)



5 Parts Diagrams: Seed Opener Assemblies

MK II & MK III



5.1 Overview

5.1.1 Terminology

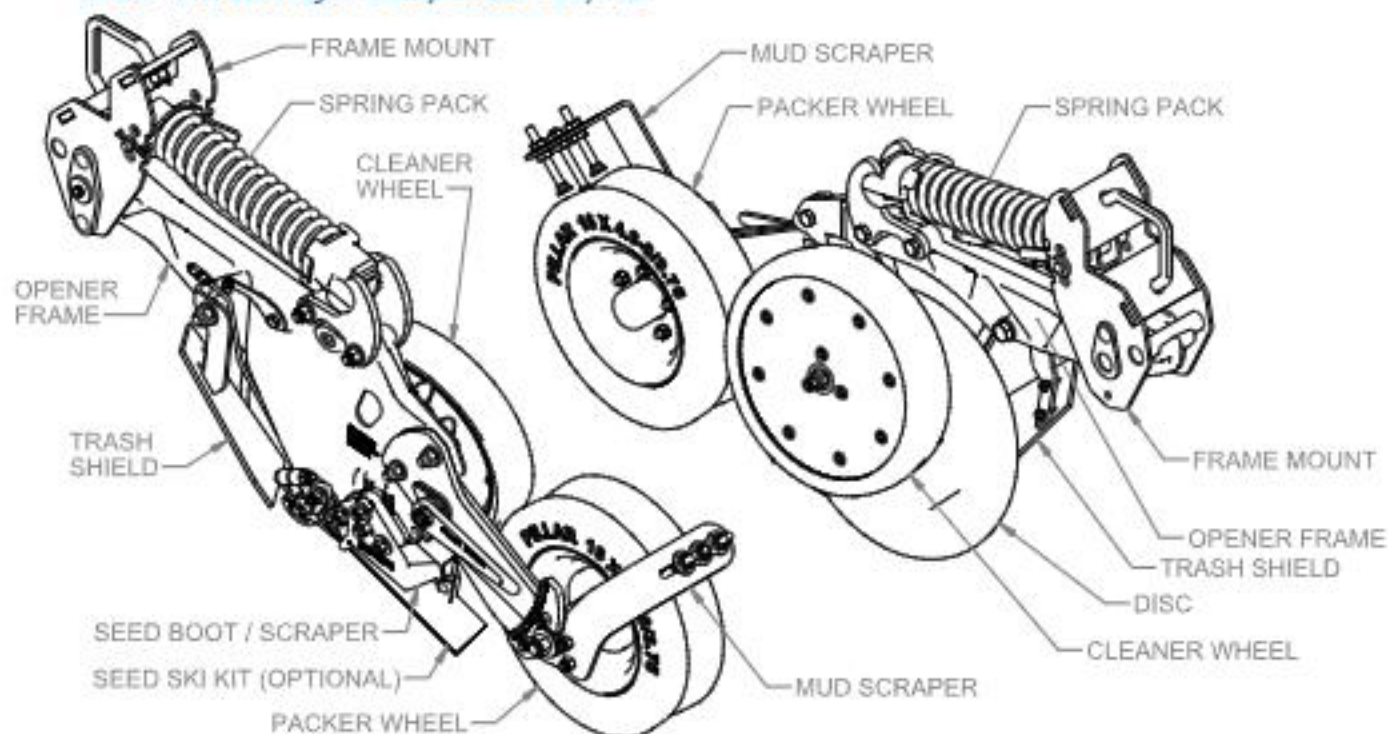
###-###A:	"A" = Assembly. Refers to an assembly of the main part/weldment ("###-###") along with its fastened/bolt-on accessories/components/hardware. Refer to the item's separated parts diagram.
ASSY:	Assembly
LH:	Left-hand (component for LH opener; relative to facing direction of travel)
RH:	Right-hand (component for RH opener; relative to facing direction of travel)
STD:	Standard
QTY:	Quantity
SEC:	Section

5.1.2 General Order of Assembly

(Refer to Section 1.3)

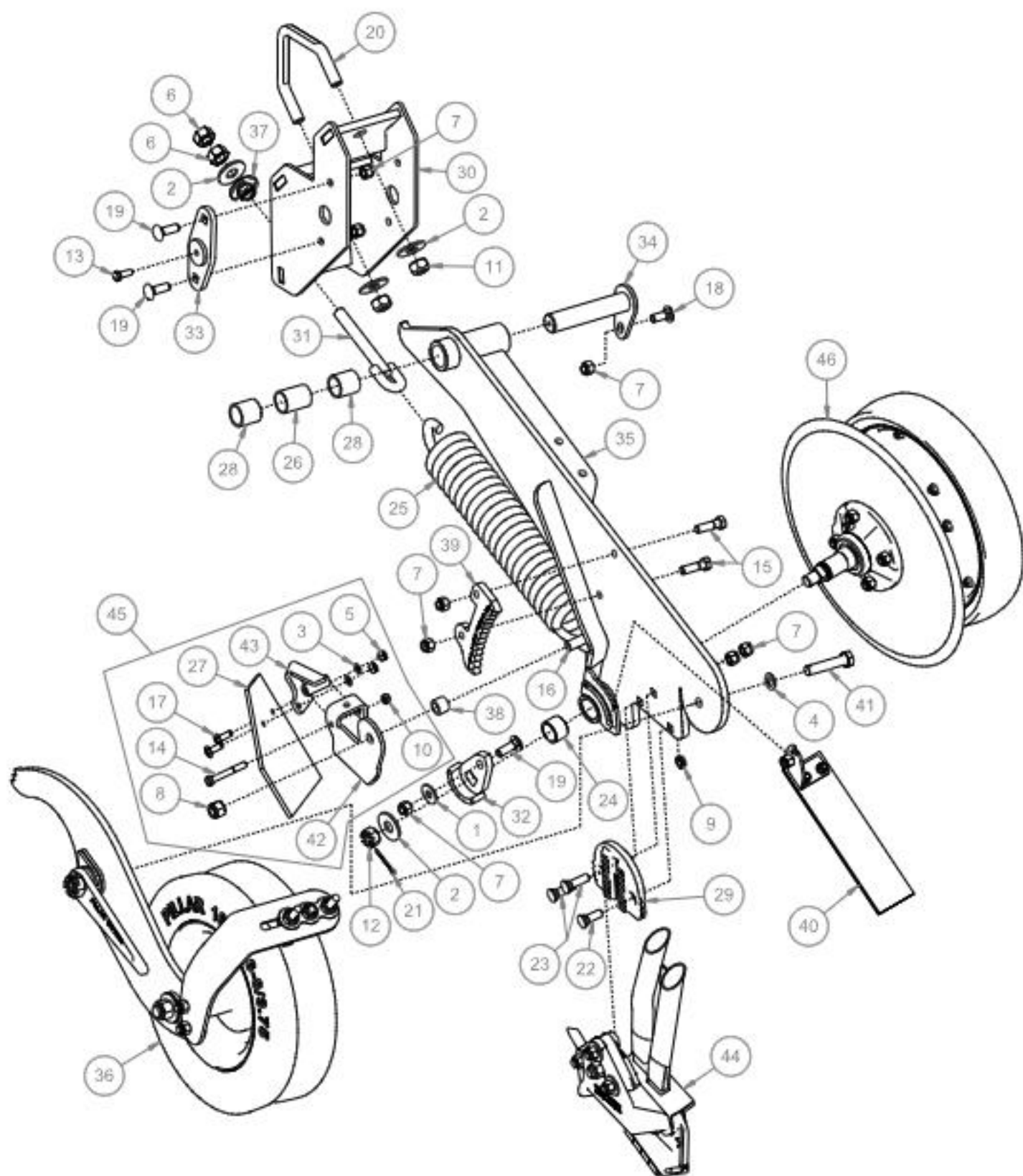
1. Frame Mount
2. Opener Frame
3. Spring Pack / HSS Spring Cartridge
4. Disc & Cleaner Wheel
5. Seed Boot / Scraper
6. Packer / Mud Scraper
7. Seed Ski Kit (Optional)

5.1.3 MK III Major Components Layout



5.2 Parts Diagrams: MK II Assemblies

5.2.1 MK II Opener



Parts Manual

MK II Opener

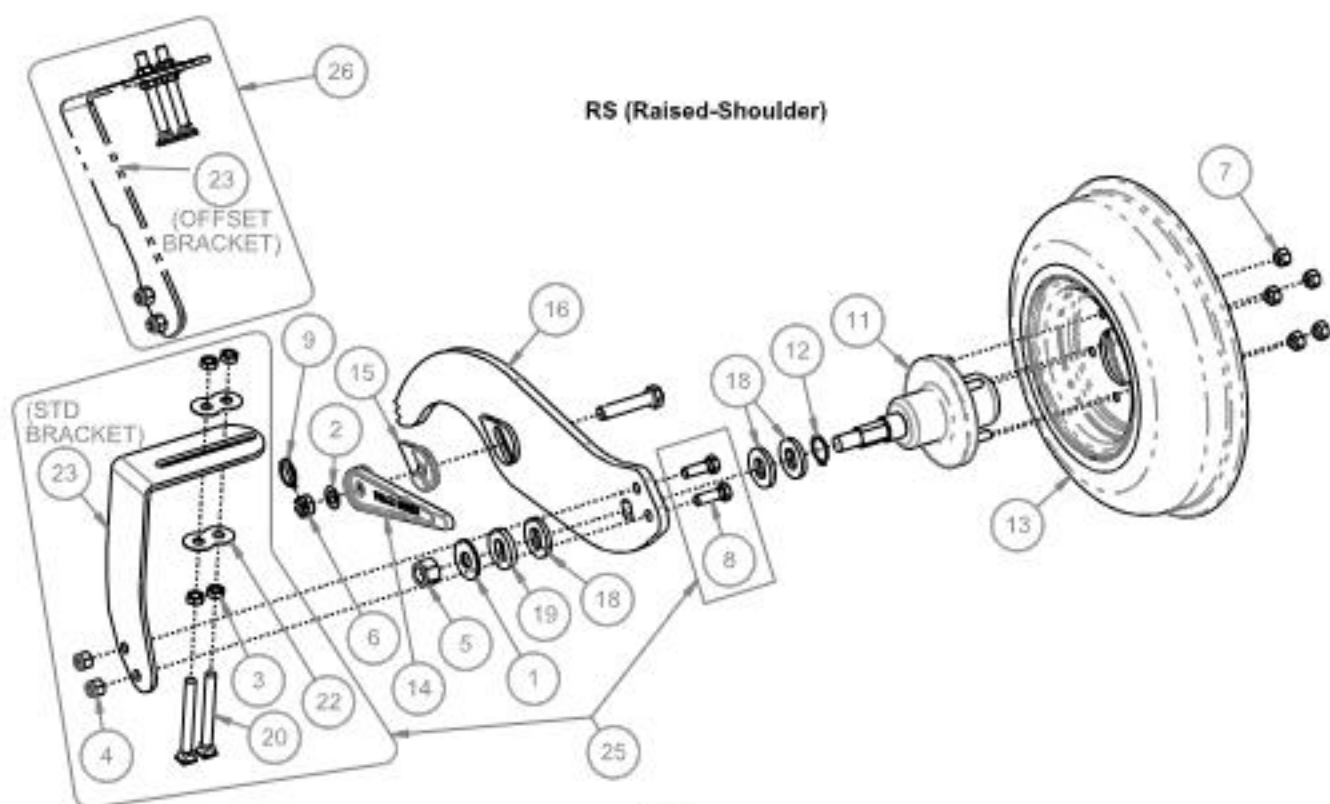
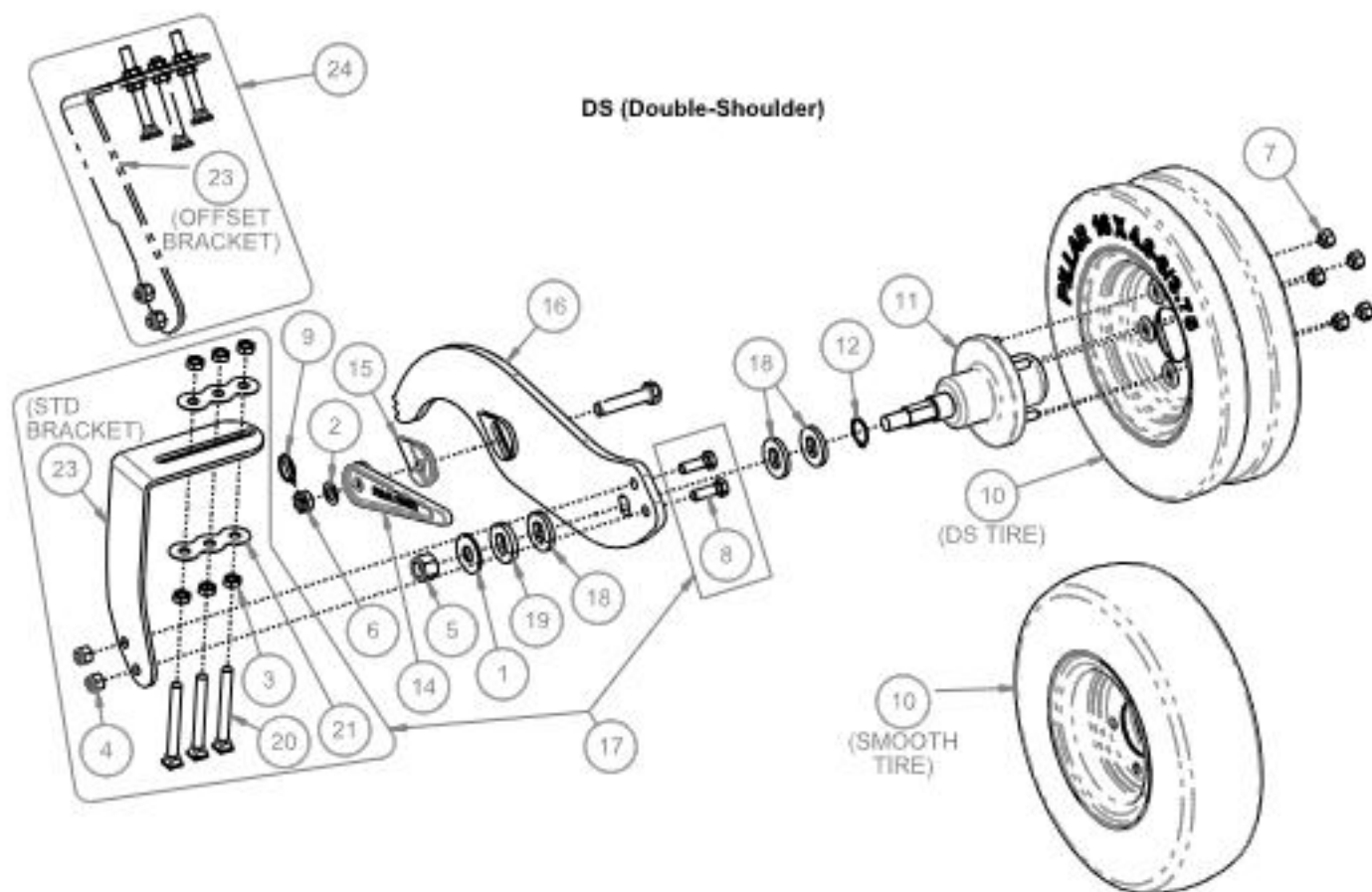
ITEM NO.	PART NO.	DESCRIPTION	QTY	ITEM NO.	PART NO.	DESCRIPTION	QTY
1	101-005	WASHER, 1/2 PLATED ASME WIDE	1	24	206-003	BRASS BUSHING	1
2	101-008	WASHER, 3/4 PLATED ASME WIDE	4	25	206-004	SPRING, EXTENSION	1
3	103-003	WASHER, 3/8 SPLIT LOCK GR2 PLATED	2	26	206-067	UHMW SPACER	1
4	104-001	WASHER, 5/8" ID x 1-1/8" OD x 18GA	1	27	206-068	TRASH SHIELD, HINGED	1
5	110-003	NUT, 3/8 UNC GR 2 PLATED	2	28	212-010	BUSH., MAIN PIVOT, NYLATRON	2
6	110-008	NUT, 3/4 UNC GR 2 PLATED	2	29	214-008	CASTING, STAIRCASE BASE PL	1
7	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	8	30	400-1001 400-2001	4 x 4 FRONT MOUNT 7 x 7 FRONT MOUNT (NOT SHOWN)	1
8	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	1	31	400-1003	EYE BOLT WELDMENT	1
9	116-005	LOCKNUT 1/2 UNC SHORT PLATED	1	32	400-1007	CLEANER WHEEL ADJUSTER	1
10	118-003	STOVER NUT, 3/8 UNC GR 2 PLATED	1	33	400-1024 405-1007	PDO PIVOT PIN LOCK (3-15/16" C-C) (NOT SHOWN) OPENER PIVOT PIN LOCK (4-3/4" C-C)	1
11	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	2	34	400-1026 400-1002	MOUNT PIN WLDMT, TAPPED MOUNT PIN WLDMT (UNTAPPED; NOT SHOWN)	1
12	122-003	SLOTTED HEX NUT, 3/4" UNF GR 2 YZ	1	35	400-1102 400-1004 400-1022 400-1118 400-3120 400-3118 400-1021 400-1117	PDO-RH MAIN FRAME PDO-LH MAIN FRAME (NOT SHOWN) PDO-LH HD MAIN FRAME (NOT SHOWN) PDO-RH HD MAIN FRAME (NOT SHOWN) ASSY'S C/W 30, 38, 2 x 40, & 52: PDO-RH MAIN FRAME (NOT SHOWN) PDO-LH MAIN FRAME (NOT SHOWN) PDO-LH HD MAIN FRAME (NOT SHOWN) PDO-RH HD MAIN FRAME (NOT SHOWN)	1
13	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	1	36	400-1017A 400-1116A	LH STR PACKER ASSY (NOT SHOWN) RH STR PACKER ASSY (SEE SEC. 5.2.2)	1
14	125-059	BOLT, 3/8 X 2-3/4 UNC GR5 PLATED	1	37	400-3001	SPRING MOUNT SHOULDER WASHER	1
15	125-104	BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	38	400-3002	SPACER, SPRING/SCRAPER MOUNT	1
16	125-157	BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	1	39	400-3006 400-3008	PDO-LH ADJUSTMENT COMB (NOT SHOWN) PDO-RH ADJUSTMENT COMB	1
17	145-052	CARR. BOLT, 3/8 X 1 UNC GR5 PLATED	2	40	400-3054 400-3056	LH SEED SKI KIT (NOT SHOWN) RH SEED SKI KIT (OPTIONAL - SEE SEC. 5.4.5)	1
18	145-102	CARR. BOLT, 1/2 X 1-1/4 UNC GR5 PLATED	1	41	400-3062	PACKER ARM MOUNT BOLT	1
19	145-103	CARR. BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	3	42	400-3131 400-3133	RH HINGED TRASH SHIELD - BASE LH HINGED TRASH SHIELD - BASE (NOT SHOWN)	1
20	165-011	V-BOLT 4 X 4, 3/4-10 UNC	1	43	400-3132 400-3134	RH HINGED TRASH SHIELD MOUNT LH HINGED TRASH SHIELD MOUNT (NOT SHOWN)	1
21	170-077	COTTER PIN, 5/32 X 1-1/2 PLATED	1	44	400-3136 400-3137	SEED BOOT ASSY, LOW DISTURB., LH (NOT SHOWN) SEED BOOT ASSY, LOW DISTURB., RH (SEE SEC. 5.4.1)	1
22	175-001	PLOW BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	1	45	400-3144 400-3143	RH HINGED TRASH SHIELD KIT LH HINGED TRASH SHIELD KIT (NOT SHOWN)	1
23	175-002	PLOW BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	46	-	DISC & CLEANER WHEEL ASSY (SEE SEC. 5.4.2)	1

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5.2.2 MK II Packer

400-1017A (LH; NOT SHOWN)

400-1116A (RH; SHOWN)



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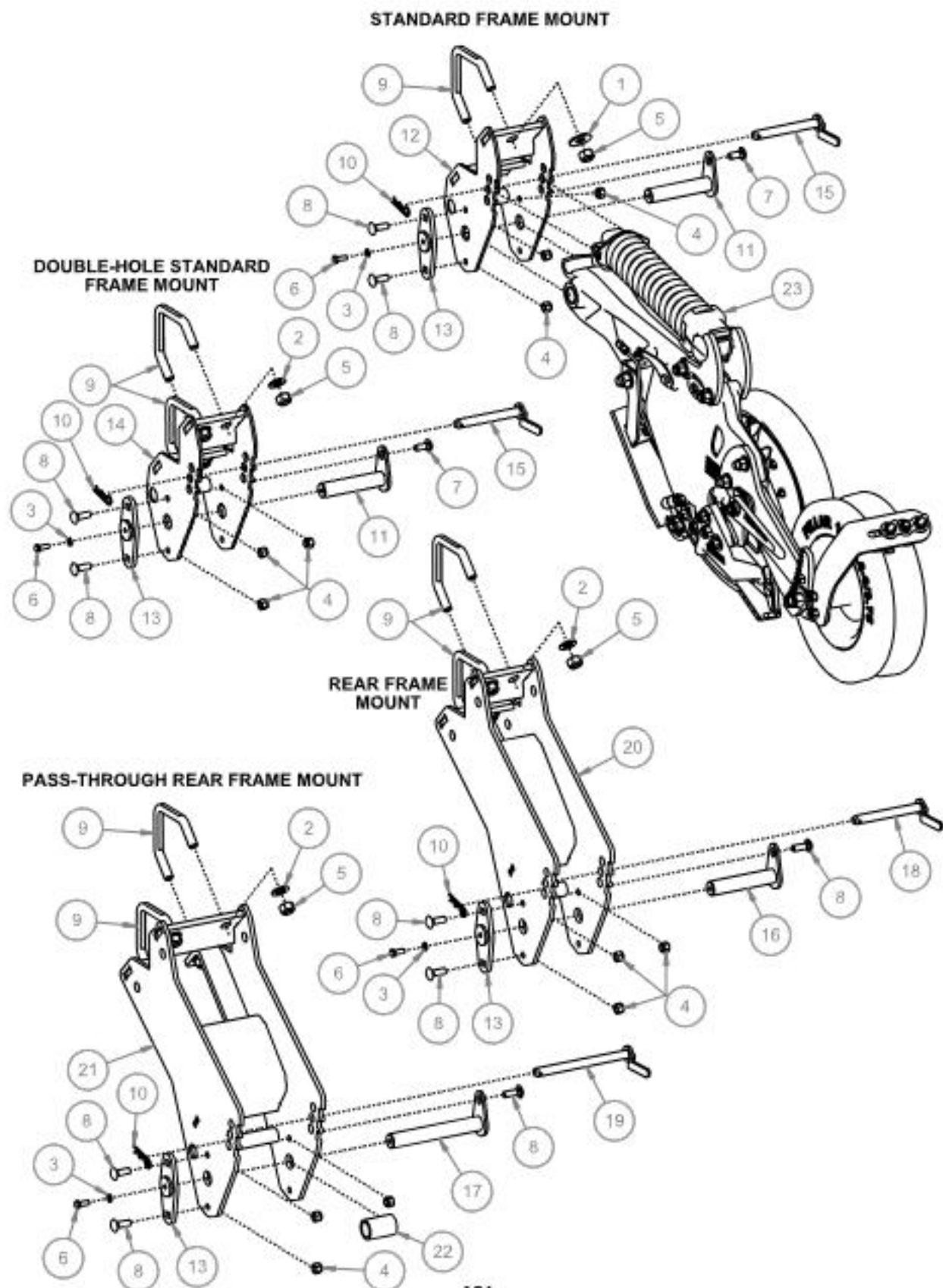
MK II Packer

ITEM NO.	PART NUMBER	DESCRIPTION	DS QTY	RS QTY
1	101-008	WASHER, 3/4 PLATED ASME WIDE	1	1
2	104-001	WASHER, 5/8" ID x 1-1/8" OD x 18GA	1	1
3	112-005	JAM NUT, 1/2 UNC GR 2 PLATED	6	4
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2	2
5	114-008	LOCKNUT, 3/4" UNC NYL INS GR 2 YZ	1	1
6	122-002	SLOTTED HEX NUT, 5/8" UNF GR 2 YZ	1	1
7	123-001	WHEEL NUT, 1/2" UNF (ADR #5732121)	5	5
8	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	2	2
9	170-051	LYNCH PIN, 3/16 x 1-1/4"	1	1
10	206-023 206-024	PACKER WHEEL, 16 x 4", DOUBLE SHOULDER (DS) <i>(SHOWN)</i> PACKER WHEEL, SMOOTH CARLISLE <i>(SHOWN BESIDE)</i>	1	-
11	206-033	HUB, 532ESZ00003-E <i>(SEE SEC. 5.4.5)</i>	1	1
12	206-048	1-1/4" STANDARD SNAP RING	1	1
13	206-075	PACKER WHEEL, 16 x 4", RAISED SHOULDER (RS), SOFT	-	1
14	214-003 214-005	CAM LOCK LEVER, LH <i>(NOT SHOWN)</i> CAM LOCK LEVER, RH <i>(SHOWN)</i>	1	1
15	214-004 214-006	CAM LOCK INSERT, LH <i>(NOT SHOWN)</i> CAM LOCK INSERT, RH <i>(SHOWN)</i>	1	1
16	400-1017 400-1116	PDO-LH PACKER ARM, STR <i>(NOT SHOWN)</i> PDO-RH PACKER ARM, STR <i>(SHOWN)</i>	1	1
17	400-3068 400-3070	LH 4x16 DS STD MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 DS STD MUD SCRAPER KIT <i>(SHOWN)</i>	(1)	-
18	400-3072	SPINDLE SPACER, 1/4"	3	3
19	400-3074	SPINDLE SPACER, 5/16"	1	1
20	400-3076	MUD SCRPR BOLT W/ CARBIDE	3	2
21	400-3082	WASHER, 3 HOLE	2	-
22	400-3083	2 HOLE WASHER, RS MUD SCRAPER	-	2
23	400-3078 400-3080 400-3098 400-3100	LH 4x16 OFFSET SCRAPER BRKT <i>(NOT SHOWN)</i> RH 4x16 OFFSET SCRAPER BRKT <i>(SHOWN BESIDE)</i> LH 4x16 STD SCRAPER BRKT <i>(NOT SHOWN)</i> RH 4x16 STD SCRAPER BRKT <i>(SHOWN)</i>	1	1
24	400-3104 400-3106	LH 4x16 DS OFFSET MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 DS OFFSET MUD SCRAPER KIT <i>(SHOWN)</i>	(1)	-
25	400-3160 400-3161	LH 4x16 RS STD MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 RS STD MUD SCRAPER KIT <i>(SHOWN)</i>	-	(1)
26	400-3162 400-3163	LH 4x16 RS OFFSET MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 RS OFFSET MUD SCRAPER KIT <i>(SHOWN)</i>	-	(1)

5.3 Parts Diagrams: MK III Assemblies

5.3.1 MK III Frame Mount

405-1001, 405-1009, 405-1050, & 405-1090

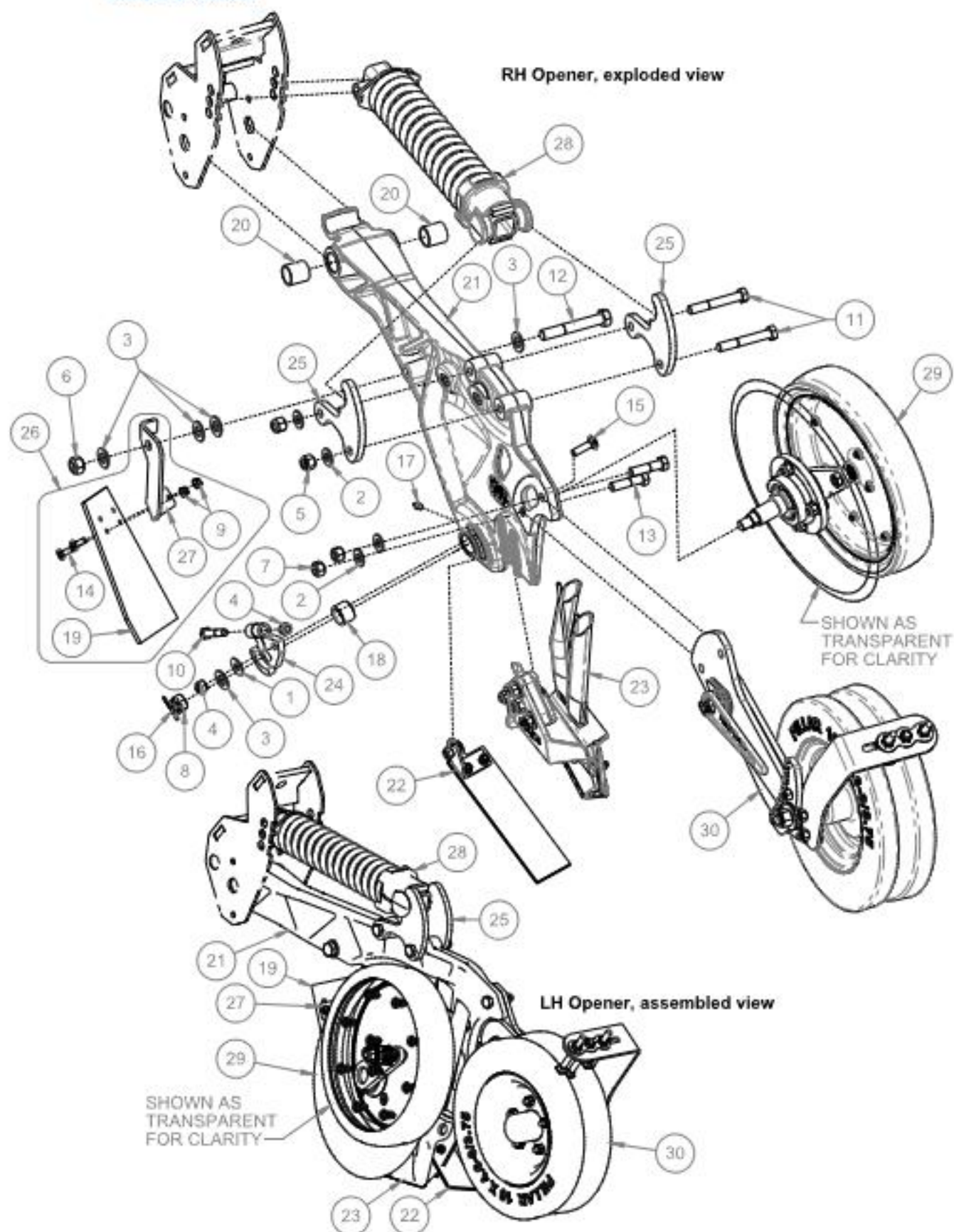


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MK III Frame Mount

ITEM NO.	PART NUMBER	DESCRIPTION	STD FRAME QTY	STD DOUBLE-HOLE FRAME QTY	REAR FRAME MOUNT QTY	PASS-THROUGH REAR FRAME MOUNT QTY
1	101-008	WASHER, 3/4 PLATED ASME WIDE	2	-	-	-
2	102-008	WASHER, 3/4 PLATED SAE	-	4	4	4
3	103-003	WASHER, 3/8 SPLIT LOCK GR2 PLATED	1	1	1	1
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	3	3	3	3
5	118-008	STOVER NUT, 3/4 UNC GR 2 PLATED	2	4	4	4
6	125-052	BOLT, 3/8 X 1 UNC GR5 PLATED	1	1	1	1
7	145-102	CARR. BOLT, 1/2 X 1-1/4 UNC GR5 PLATED	1	1	-	-
8	145-103	CARR. BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	2	2	3	3
9	165-011	V-BOLT 4 X 4, 3/4-10 UNC	1	2	2	2
10	175-008	HAIR PIN, #10 5/32 X 2-15/16	1	1	1	1
11	400-1026	MOUNT PIN WLDMT, TAPPED	1	1	-	-
12	405-1001	FRAME MOUNT, 4 X 4	1	-	-	-
13	405-1007	OPENER PIVOT PIN LOCK	1	1	1	1
14	405-1009	FRAME MOUNT, 4 X 4, WIDE DOUBLE HOLE	-	1	-	-
15	405-1021	PIN, SPRING PRESSURE ADJUST	1	1	-	-
16	405-1046	MOUNT PIN WLDMT, TAPPED, LONG	-	-	1	-
17	405-1047	MOUNT PIN, PASS-THROUGH	-	-	-	1
18	405-1048	PIN, SPRING PRESSURE ADJUST, LONG	-	-	1	-
19	405-1049	PIN, SPRING PRESSURE ADJUST, PASS-THROUGH	-	-	-	1
20	405-1050	REAR FRAME MOUNT W/ ADAPTER HOLES, 4 X 4	-	-	1	-
21	405-1090	PASS-THROUGH REAR MOUNT	-	-	-	1
22	405-1091	OPENER SPACER, PASS-THROUGH	-	-	-	1
23	214-013A 214-014A	MK III OPENER FRAME ASSY, LH (<i>NOT SHOWN</i>) MK III OPENER FRAME ASSY, RH (<i>SHOWN</i>)	1	1	1	1

5.3.2 MK III Opener Frame 214-013 & 214-014



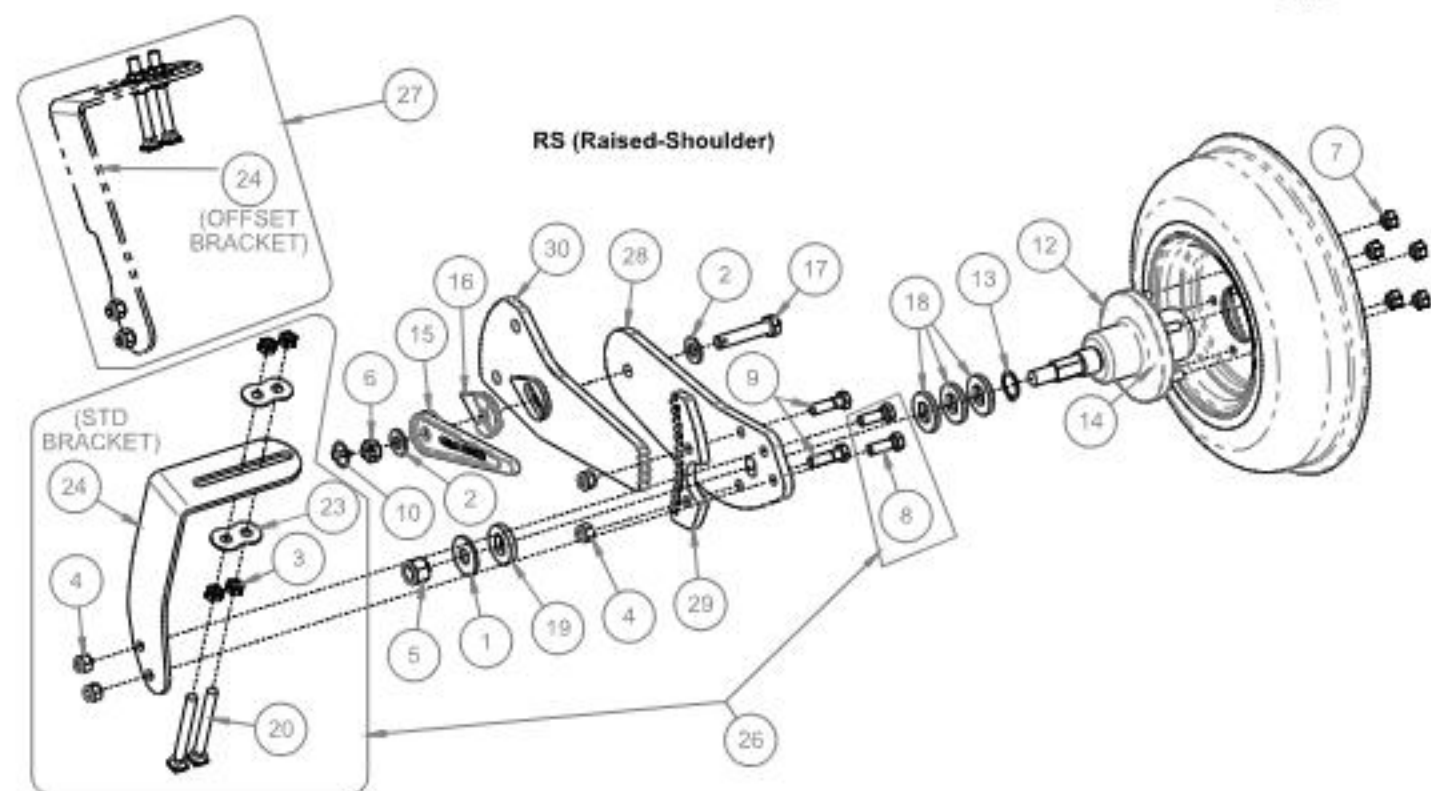
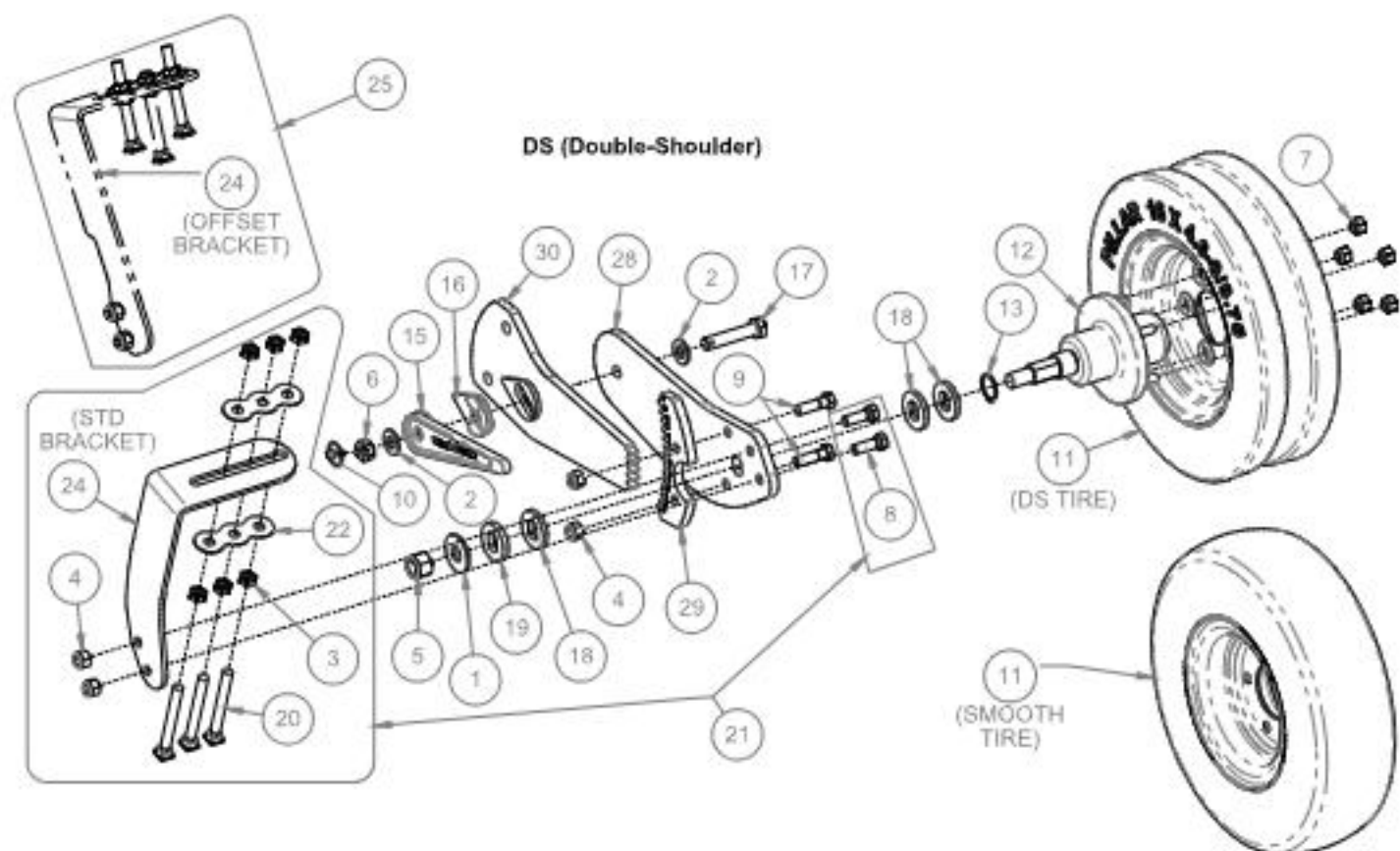
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MK III Opener Frame

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-005	WASHER, 1/2 PLATED ASME WIDE	1
2	102-007	WASHER, 5/8 PLATED SAE	4
3	102-008	WASHER, 3/4 PLATED SAE	5
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	2
5	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	2
6	118-042	STOVER NUT, 3/4 UNC GR B PLATED	1
7	119-032	STOVER NUT, 5/8 UNC GR C PLATED	2
8	122-003	SLOTTED HEX NUT, 3/4" UNF GR 2 YZ	1
9	124-007	NUT, 3/8" UNC SERRATED FLANGE LOCK NUT GR2 YZ	2
10	125-109	BOLT, 1/2 X 3 UNC GR5 PLATED	1
11	125-164	BOLT, 5/8 X 4-1/4 UNC GR5 PLATED	2
12	125-192	BOLT, 3/4 X 5 UNC GR5 PLATED	1
13	130-157	BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	2
14	145-052	CARR. BOLT, 3/8 X 1 UNC GR5 PLATED	2
15	145-104	CARR. BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	1
16	170-077	COTTER PIN, 5/32 X 1-1/2 PLATED	1
17	180-004	GREASE FITTING, 1/8 NPT, STRAIGHT	1
18	206-003	BRASS BUSHING	1
19	206-071	TRASH SHIELD, HINGED, COMP. OPENER	1
20	212-010	BUSH., MAIN PIVOT, NYLATRON	2
21	214-013 214-014	OPENER FRAME, LEFT, MACHINED OPENER FRAME, RIGHT, MACHINED	1
22	400-3054 400-3056	LH SEED SKI KIT (OPTIONAL; SEE SEC. 5.4.6) RH SEED SKI KIT	1
23	400-3136 400-3137	SEED BOOT ASSY, LOW DISTURB., LH (SEE SEC. 5.4.1) SEED BOOT ASSY, LOW DISTURB., RH	1
24	405-1003 405-1004 405-2003 405-2004	DEPTH INDICATOR MOUNT, RH (NOT SHOWN) DEPTH INDICATOR MOUNT II, RH DEPTH INDICATOR MOUNT, LH (NOT SHOWN) DEPTH INDICATOR MOUNT II, LH	1
25	405-1005 405-1006 405-1008	TRUNNION RECEIVER TRUNNION RECEIVER WITH STEP (NOT SHOWN) TRUNNION RECEIVER, LIFT LOCK (NOT SHOWN)	2
26	405-1022 405-2022	HINGED TRASH SHIELD KIT, RH HINGED TRASH SHIELD KIT, LH	1
27	405-1023 405-2023	HINGED TRASH SHIELD MOUNT, RH HINGED TRASH SHIELD MOUNT, LH	1
28	405-1032	HSS SPRING CARTRIDGE ASSEMBLY (SEE SEC. 5.3.4)	1
29	-	DISC & CLEANER WHEEL ASSY (SEE SEC. 5.4.2)	1
30	-	MK III PACKER ASSY, RH (SEE SEC. 5.3.3) MK III PACKER ASSY, LH	1

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5.3.3 MK III Packer (RH SHOWN)



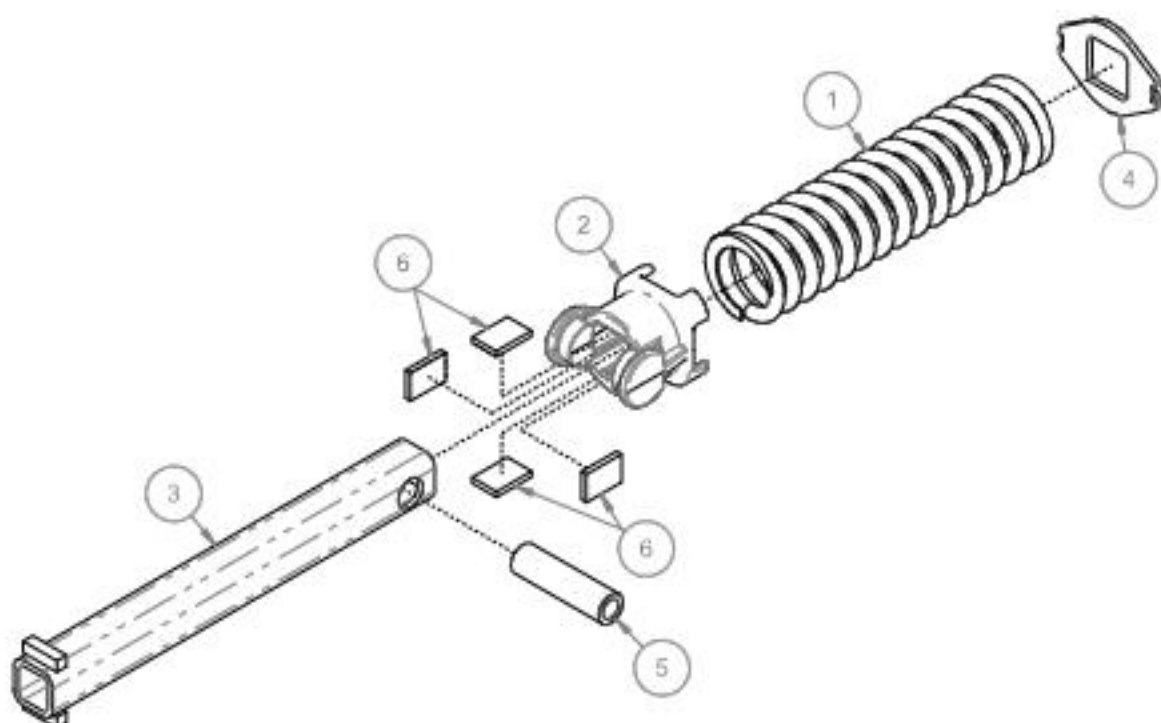
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MK III Packer

ITEM NO.	PART NUMBER	DESCRIPTION	DS QTY	RS QTY
1	101-008	WASHER, 3/4 PLATED ASME WIDE	1	1
2	102-007	WASHER, 5/8 PLATED SAE	2	2
3	112-005	JAM NUT, 1/2 UNC GR 2 PLATED	6	4
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	4	4
5	114-008	LOCKNUT, 3/4" UNC NYL INS GR 2 YZ	1	1
6	122-002	SLOTTED HEX NUT, 5/8" UNF GR 2 YZ	1	1
7	123-001	WHEEL NUT, 1/2" UNF (ADR #5732121)	5	5
8	125-103	BOLT, 1/2 X 1-1/2 UNC GR5 PLATED	2	2
9	125-104	BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	2
10	170-051	LYNCH PIN, 3/16 x 1-1/4"	1	1
11	206-023 206-024	PACKER WHEEL, 16 x 4", DOUBLE SHOULDER (DS) <i>(SHOWN)</i> PACKER WHEEL, SMOOTH CARLISLE <i>(SHOWN BESIDE)</i>	1	-
12	206-033	HUB, 532ESZ00003-E <i>(SEE SEC. 5.4.5)</i>	1	1
13	206-048	1-1/4" STANDARD SNAP RING	1	1
14	206-075	PACKER WHEEL, 16 x 4", RAISED SHOULDER (RS), SOFT	-	1
15	214-003 214-005	CAM LOCK LEVER, LH <i>(NOT SHOWN)</i> CAM LOCK LEVER, RH <i>(SHOWN)</i>	1	1
16	214-004 214-006	CAM LOCK INSERT, LH <i>(NOT SHOWN)</i> CAM LOCK INSERT, RH <i>(SHOWN)</i>	1	1
17	400-3062	PACKER ARM MOUNT BOLT	1	1
18	400-3072	SPINDLE SPACER, 1/4"	3	3
19	400-3074	SPINDLE SPACER, 5/16"	1	1
20	400-3076	MUD SCRPR BOLT W/ CARBIDE	3	2
21	400-3068 400-3070	LH 4x16 DS STD MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 DS STD MUD SCRAPER KIT <i>(SHOWN)</i>	(1)	-
22	400-3082	WASHER, 3 HOLE	2	-
23	400-3083	2 HOLE WASHER, RS MUD SCRAPER	-	2
24	400-3078 400-3080 400-3098 400-3100	LH 4x16 OFFSET SCRAPER BRKT <i>(NOT SHOWN)</i> RH 4x16 OFFSET SCRAPER BRKT <i>(SHOWN BESIDE)</i> LH 4x16 STD SCRAPER BRKT <i>(NOT SHOWN)</i> RH 4x16 STD SCRAPER BRKT <i>(SHOWN)</i>	1	1
25	400-3104 400-3106	LH 4x16 DS OFFSET MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 DS OFFSET MUD SCRAPER KIT <i>(SHOWN)</i>	(1)	-
26	400-3160 400-3161	LH 4x16 RS STD MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 RS STD MUD SCRAPER KIT <i>(SHOWN)</i>	-	(1)
27	400-3162 400-3163	LH 4x16 RS OFFSET MUD SCRAPER KIT <i>(NOT SHOWN)</i> RH 4x16 RS OFFSET MUD SCRAPER KIT <i>(SHOWN)</i>	-	(1)
28	405-1025	PACKER ARM	1	1
29	405-1027 405-2027	COMB, PACKER ARM, RH <i>(SHOWN)</i> COMB, PACKER ARM, LH <i>(NOT SHOWN)</i>	1	1
30	405-1030 405-2030	PACKER LOCK ARM, RH <i>(SHOWN)</i> PACKER LOCK ARM, LH <i>(NOT SHOWN)</i>	1	1

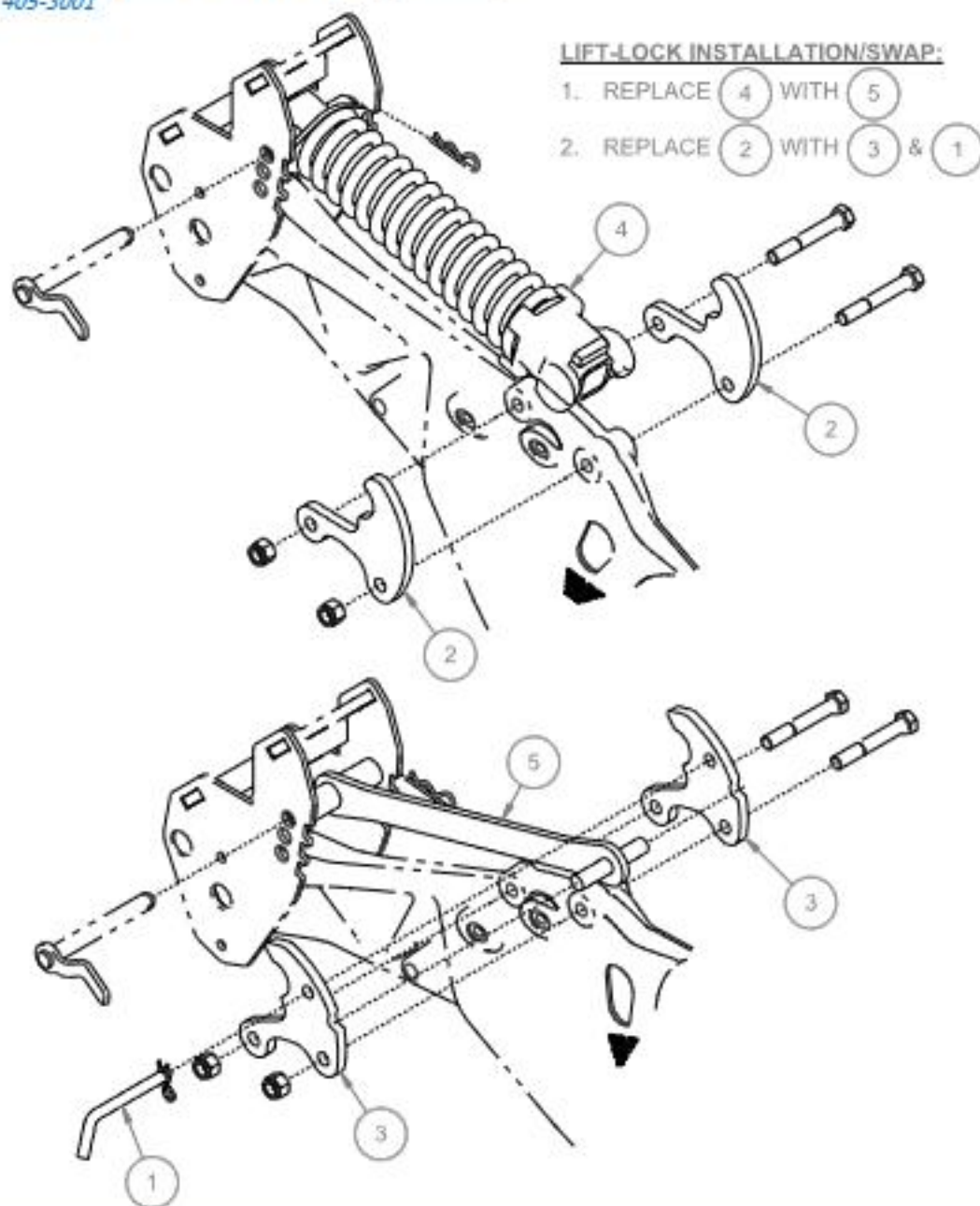
Parts Manual

5.3.4 MK III Spring Pack / HSS Spring Cartridge



<i>HSS Spring Cartridge</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	206-051	COMP SPRING, 9/16 WIRE, 3.125" PD, 19" FL	1
2	214-017 (405-1034)	CASTING, HSS TRUNNION SLIDER HSS TRUNNION SLIDER (PREVIOUS DESIGN; NOT SHOWN)	1
3	405-1033	HSS SPRING GUIDE	1
4	405-1035	STATIC SPRING ENDPLATE	1
5	405-1036	FRONT MOUNT, HSS SPRING CARTRIDGE	1
6	405-1040	WEAR INSERT, CAST TRUNNION (CURRENT)	4
	(405-1038)	3/16" WEAR INSERT, HSS SPRING PACK (PREVIOUS DESIGN; NOT SHOWN)	1
	(405-1039)	1/4" WEAR INSERT, HSS SPRING PACK (PREVIOUS DESIGN; NOT SHOWN)	1

5.3.5 MK III Opener Lift Lock Kit (Optional) 405-3001



MK III Opener Lift-lock Kit

ITEM NO.	PART NUMBER	DESCRIPTION	PARTS TO REPLACE QTY	LIFT LOCK REPLACED PARTS QTY
1	170-093	HITCH PIN, 1/2" c/w CLIP, 4" Useable Length	-	1
2	405-1005_r5	TRUNNION RECEIVER	2	-
3	405-1008 / 405-1005_r6	TRUNNION RECEIVER, LIFT LOCK	-	2
4	405-1032	HSS SPRING CARTRIDGE ASSEMBLY	1	-
5	405-1092	MKIII OPENER LIFT LOCK LINK	-	1

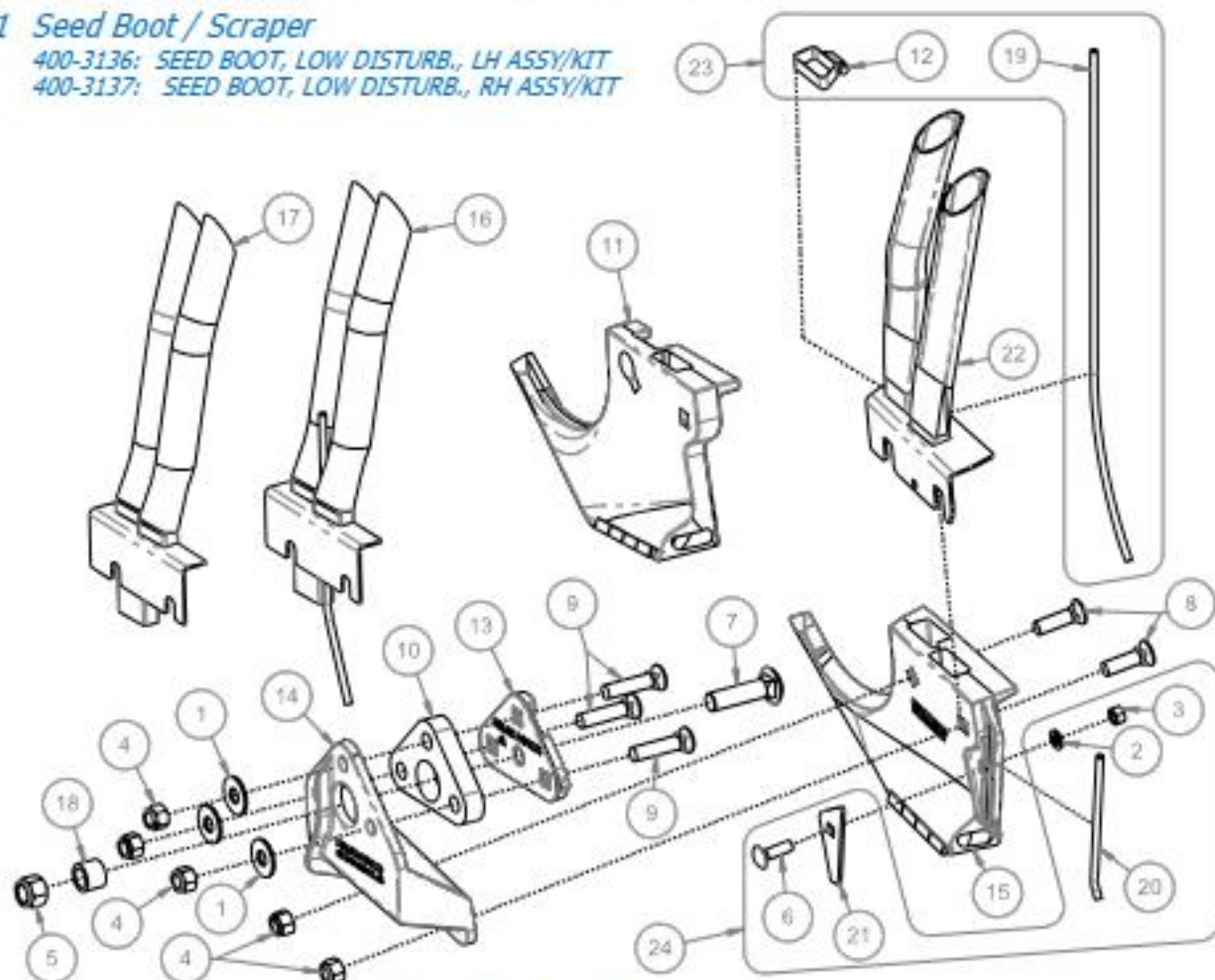
Parts Manual

5.4 Parts Diagrams: Shared/Common Sub-Assemblies

5.4.1 Seed Boot / Scraper

400-3136: SEED BOOT, LOW DISTURB., LH ASSY/KIT

400-3137: SEED BOOT, LOW DISTURB., RH ASSY/KIT

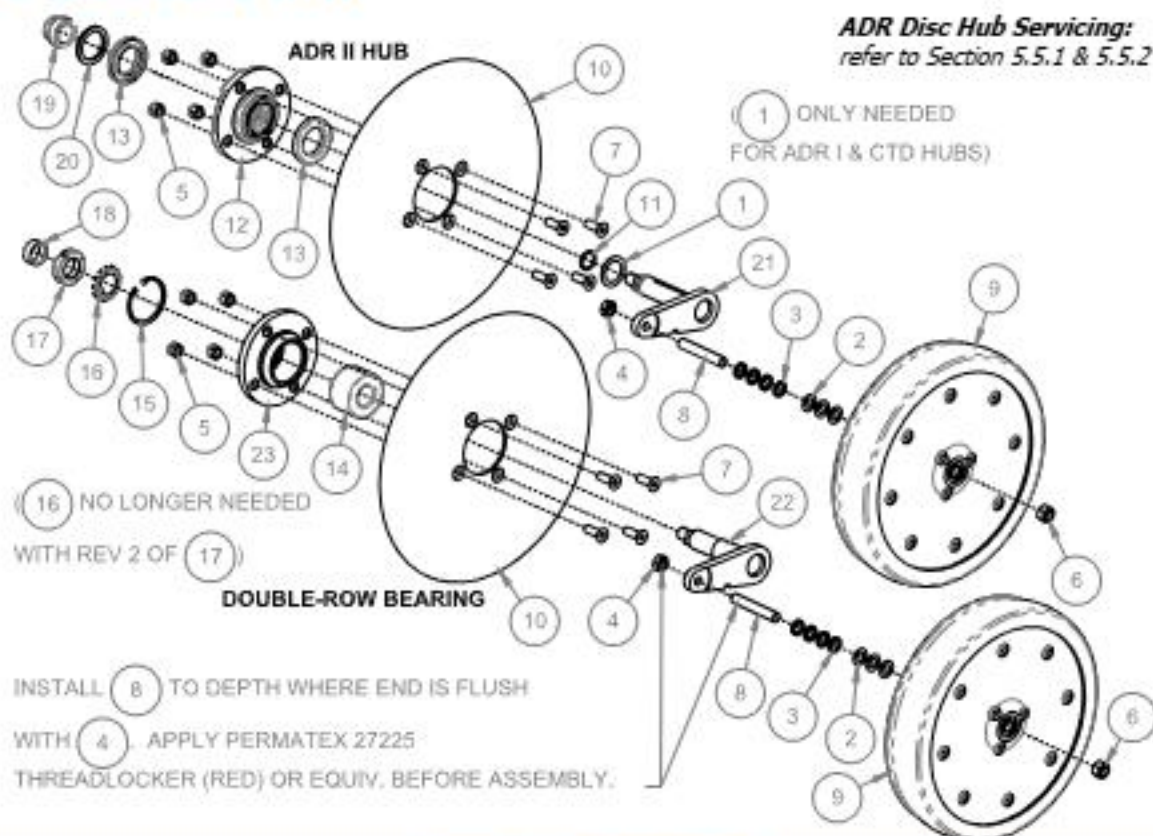


Seed Boot / Scraper

ITEM NO.	PART NO.	DESCRIPTION	QTY	ITEM NO.	PART NO.	DESCRIPTION	QTY
1	101-005	WASHER, 1/2 PLATED ASME WIDE	3	13	214-007	CASTING, STAIRCASE	1
2	103-003	WASHER, 3/8 SPLIT LOCK GR2 PLATED	1	14	214-009 214-010	CASTING, LH SCRAPER MOUNT (NOT SHOWN) CASTING, RH SCRAPER MOUNT	1
3	110-003	NUT, 3/8 UNC GR 2 PLATED	1	15	214-011 214-012	CASTING, LH LOW DISTURB. SCRAPER SEED BOOT (NOT SHOWN) CASTING, RH LOW DISTURB. SCRAPER SEED BOOT	1
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	5	16	400-1011 400-1110	ORIG. STYLE SEED/FERT. TUBES, W/ LIQUID, LH (NOT SHOWN) ORIG. STYLE SEED/FERT. TUBES, W/ LIQUID, RH	1
5	114-007	LOCKNUT, 5/8" UNC NYL INS GR 2 YZ	1	17	400-1013 400-1114	ORIG. STYLE SEED/FERT. TUBES, LH (NOT SHOWN) ORIG. STYLE SEED/FERT. TUBES, RH	1
6	145-054	CARR. BOLT, 3/8 X 1-1/4 UNC GR5 PLATED	1	18	400-3002	SPACER, SPRING/SCRAPER MOUNT	1
7	145-158	CARR. BOLT, 5/8 X 2-1/2 UNC GR5 PLATED	1	19	400-3088	LIQUID FERT. TUBE, FRONT	1
8	175-002	PLOW BOLT, 1/2 X 1-3/4 UNC GR5 PLATED	2	20	400-3102	LIQUID FERT. TUBE, BACK	1
9	175-011	PLOW BOLT, 1/2 X 2-1/4 UNC GR8 PLATED	3	21	400-3103	LIQUID FERT TUBE, BACK, CLAMP	1
10	206-020	OPR, URETHANE ADJUSTMENT PUCK	1	22	400-3126 400-3128	SEED/FERT. TUBE, RH SEED/FERT. TUBE, LH (NOT SHOWN)	1
11	214-001 212-002	ORIG. STYLE SEED BOOT, LH (NOT SHOWN) ORIG. STYLE SEED BOOT, RH	1	23	400-3140	LIQUID FERTILIZER KIT	1
12	212-048	#16 SS HOSE CLAMP	1	24	400-3141	LIQUID PHOSPHATE KIT	1

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5.4.2 Disc & Cleaner Wheel



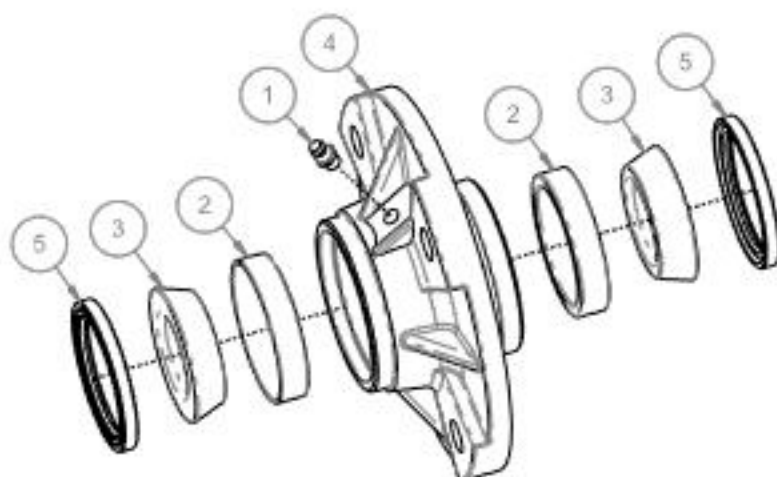
Disc & Cleaner Wheel

ITEM NO.	PART NUMBER	DESCRIPTION	ADR II QTY	DBL ROW BRG QTY
1	102-044	WASHER, 1.406 x 1/16" THICK TYPE B YZ (FOR CTD & ADR I HUBS ONLY)	1 / 0	-
2	104-001	WASHER, 5/8" ID x 1-1/8" OD x 18GA	3	3
3	105-001	WASHER, 5/8" ID x 1" OD x 0.125", YZ	4	4
4	112-007	JAM NUT, 5/8" UNC GR 2 YZ	1	1
5	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	4	4
6	118-007	STOVER NUT, 5/8 UNC GR 2 PLATED	1	1
7	165-009	Socket Countersunk Flat Head Cap Screw, 1/2-13 UNC, 1-1/2" LG	4	4
8	165-018	5/8" UNC x 4" LG STUD, 1-1/4" THD EACH END	1	1
9	206-006	3" x 16" CLEANER WHEEL	1	1
10	206-007	OPR, 18" x 5mm DISC	1	1
11	206-009	OPR, NITRILE 70 DURO O-RING	1	-
12	206-076 206-061 206-014	DISC HUB, ADR II ASSY, S47G2200001 (SEE SEC. 5.4.4) OLD - DISC HUB, ADR I, S47G2200001 (NOT SHOWN; SEE SEC. 5.4.3) OLD - DISC HUB, CTD ASSY (NOT SHOWN)	1	-
13	206-080	SEAL GUARD (GRASS SHIELD) ADR II HUB	2	-
14	206-094	BEARING, PEER - PER.5207RSS55-A	-	1
15	206-095	3" INTERNAL SNAP RING	-	1
16	206-096	SPANNER WASHER (**N/A with 206-097 Rev 2)	-	1 / 0
17	206-097	SPANNER NUT	-	1
18	206-111	BUSHING, BRONZE, 1-1/2 OD x 1-1/4 ID x 5/8" (Previously 405-1078)	-	1
19	400-3058	SEAL SURFACE	1	-
20	400-3145	SPACER, DISC SEAL SURFACE, ADR II	1	-
21	405-1042 405-2042	SPINDLE, RH, ADR HUB II SPINDLE, LH, ADR HUB II (NOT SHOWN)	1	-
22	405-1076 405-2076	SPINDLE, RH, DOUBLE ROW BRG SPINDLE, LH, DOUBLE ROW BRG (NOT SHOWN)	-	1
23	405-1077	DOUBLE ROW BRG HUB	-	1

5.4.3 Disc Hub, ADR I

206-061: DISC HUB, ADR I COMPLETE ASSEMBLY

206-060: BEARING & SEAL KIT – CONTAINS 2 EACH OF ITEMS 2, 3, 5

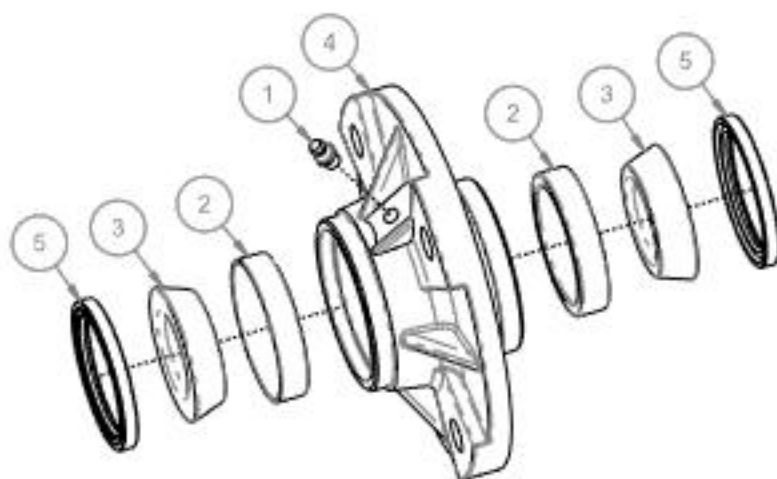


<i>Disc Hub, ADR I</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1
2	206-011	BEARING CUP, LM67010	2
3	206-012 212-230	BEARING CONE, LM67048 BEARING CONE w/ SEAL, LM67000LA-902A1 (OPTIONAL)	2
4	206-010	ADR HUB, 4 BOLT	1
5	206-059 206-100	HUB SEAL 507008DL, 50 mm ID x 70 mm ID x 8 mm THK OIL SEAL, 48 mm ID x 70 mm OD x 8 mm THK (USED ONLY WHEN 206-036 (SEAL GUARD / GRASS SHIELD) IS NOT USED (OPTIONAL))	2

5.4.4 Disc Hub, ADR II

206-076: DISC HUB, ADR II COMPLETE ASSEMBLY

206-078: BEARING & SEAL KIT - CONTAINS 2 EACH OF ITEMS 2, 3, 5

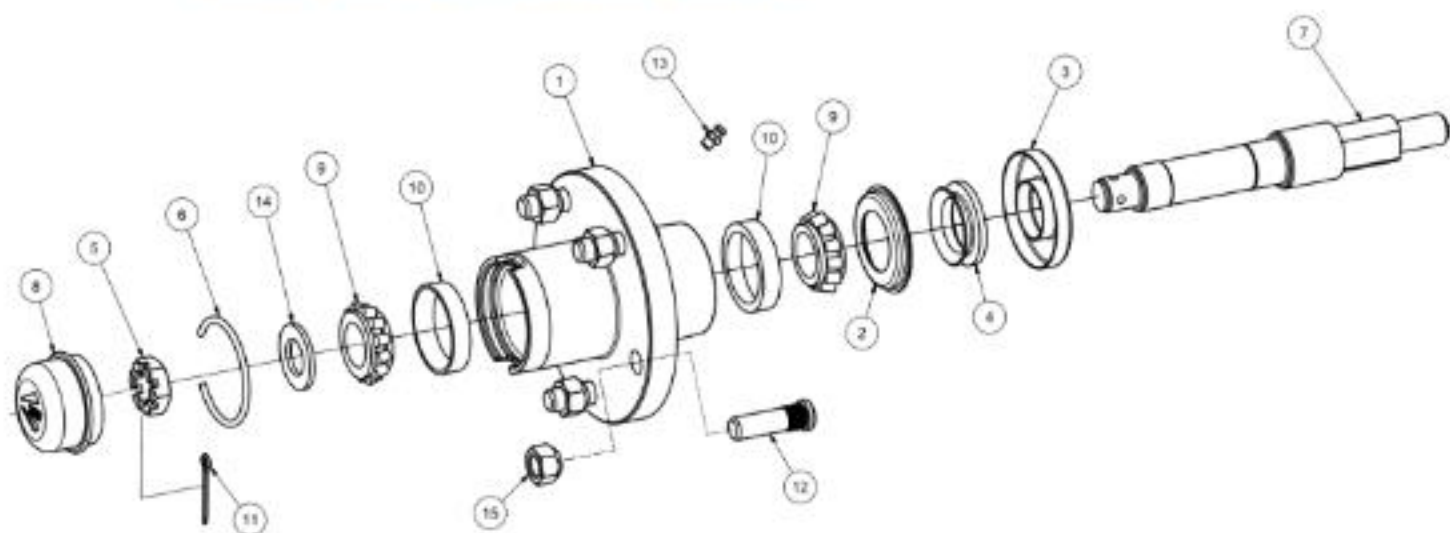


<i>Disc Hub, ADR II</i>			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	180-005	GREASE ZERK, 1/4-28 UNF STRAIGHT	1
2	206-011	BEARING CUP, LM67010	2
3	206-012	BEARING CONE, LM67048	2
4	206-077	ADR II DISC HUB, 4 BOLT, REVISED FOR GRASS SHIELD CLEARANCE	1
5	206-079	OIL SEAL - ADR II HUB, 50 mm ID x 62 mm OD x 6 mm THK	2

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5.4.5 Packer Wheel Hub and Spindle

206-033: COMPLETE PACKER HUB/SPINDLE ASSEMBLY



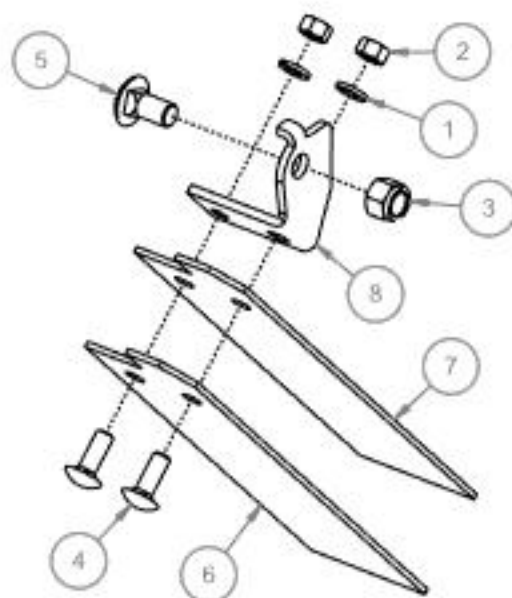
Packer Wheel Hub and Spindle

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	206-032	5 - BOLT PACKER WHEEL HUB, ADR H05 1/2", 61LZE4001	1
2	206-038	INNER SEAL SURFACE	1
3	206-042	OUTER SEAL SURFACE (GRASS SHIELD)	1
4	206-043	RUBBER "V" SEAL	1
5	122-003	3/4" UNF CASTLE NUT	1
6	206-044	LOCK RING, DUST CAP	1
7	206-031	SPINDLE, PILLAR PACKER WHEEL	1
8	206-045	ADR DUST CAP	1
9	206-046	BEARING CONE, KL44643	2
10	206-047	BEARING CUP, KL44610	2
11	170-076	COTTER PIN 3.2mm x 25mm	1
12	165-001	1/2" - 20 UNF STUD	5
13	180-001	GREASE FITTING M06 x 1.00	1
14	101-008	WASHER, M20	1
15	123-001	1/2" - 20 UNF WHEEL NUT	5

5.4.6 Seed Ski Kit (Optional)

400-3054: LH SEED SKI KIT (NOT SHOWN)

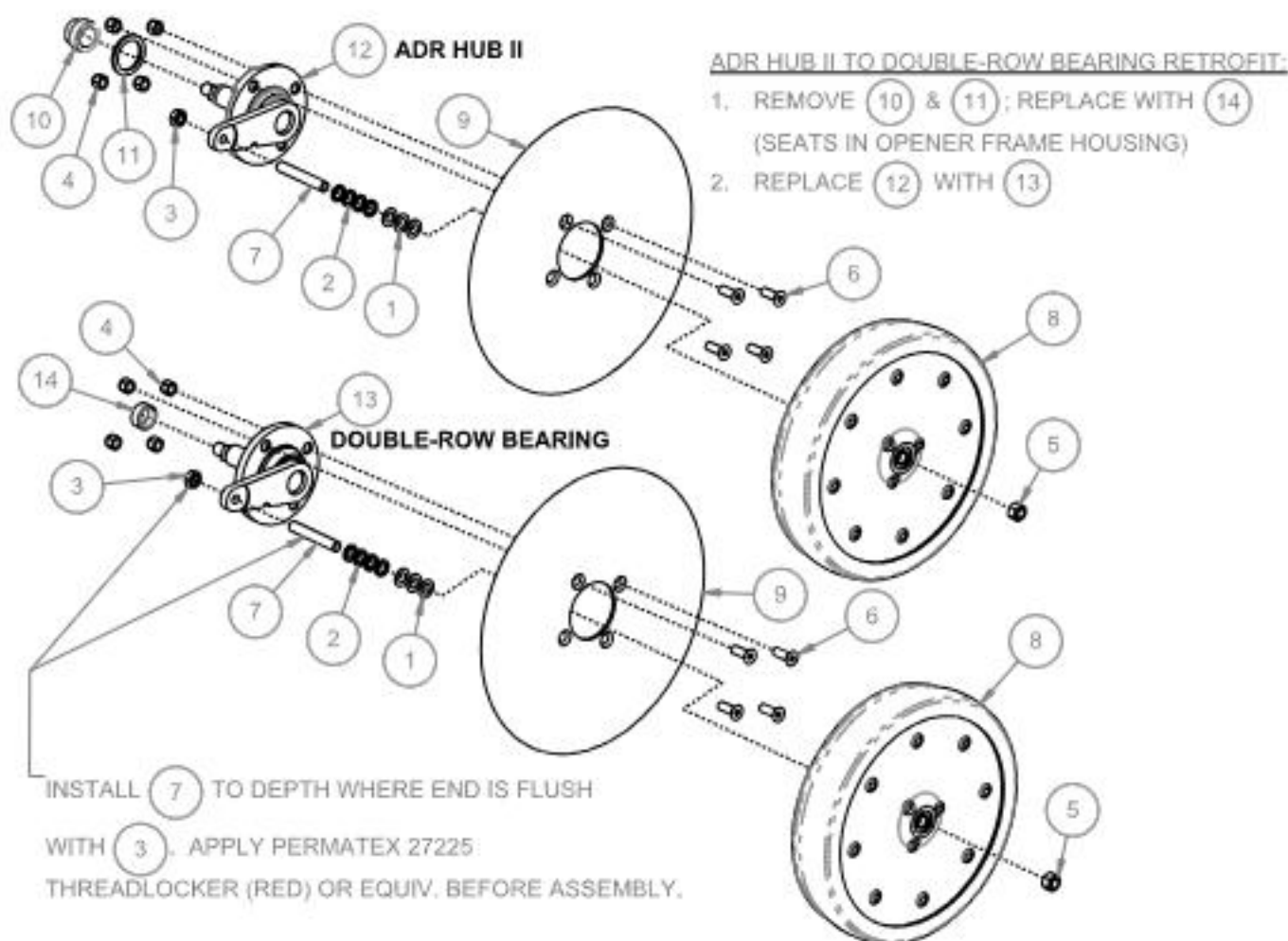
400-3056: RH SEED SKI KIT



Seed Ski Kit			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	103-003	WASHER, 3/8 SPLIT LOCK GR2 PLATED	2
2	110-003	NUT, 3/8 UNC GR 2 PLATED	2
3	118-005	STOVER NUT, 1/2" UNC GR 2 PLATED	1
4	145-053	CARR. BOLT, 3/8 X 1 SHORT NECK UNC GR5 PLATED	2
5	145-102	CARR. BOLT, 1/2 X 1-1/4" UNC GR5 PLATED	1
6	206-021	UHMW SEED SKI, BLACK, 1/8"	1
7	206-022	GSM NYLON SEED SKI, BLACK, 1/8"	1
8	400-3032 400-3034	SEED SKI MOUNT BRKT, LH (NOT SHOWN) SEED SKI MOUNT BRKT, RH	1

5.5 Retrofits / Serviceability

5.5.1 Disc & Cleaner Wheel: Disc Hub ADR II to Double-Row Bearing Replacement



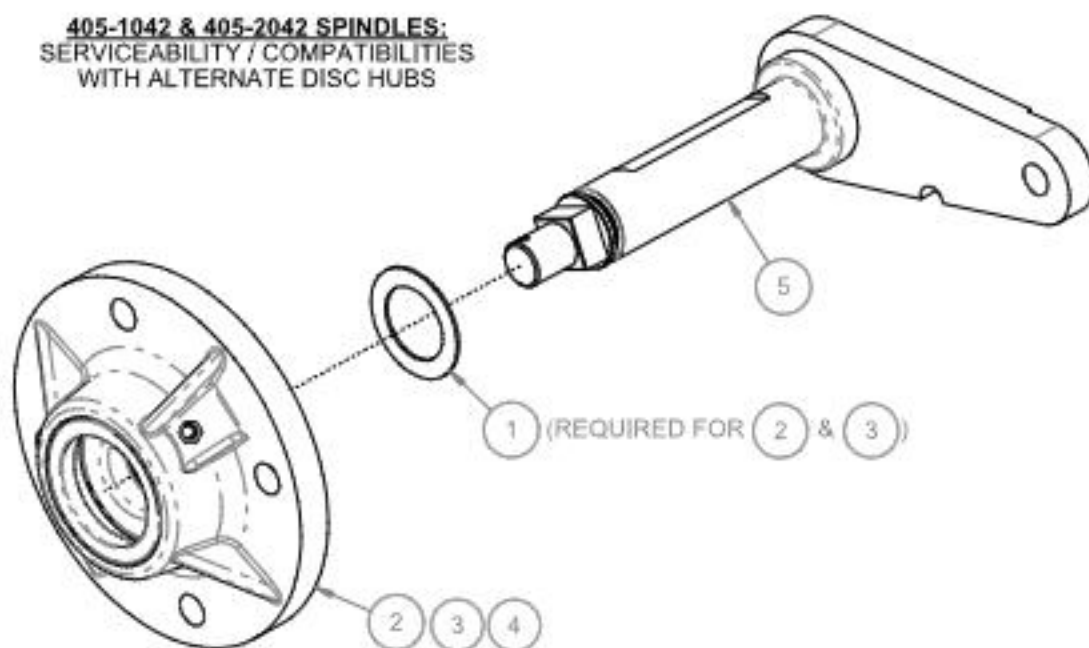
ADR Hub II to Double-Row Bearing Replacement

ITEM NO.	PART NUMBER	DESCRIPTION	ADR II QTY	DBL ROW BRG QTY
1	104-001	WASHER, 5/8" ID x 1-1/8" OD x 18GA	3	3
2	105-001	WASHER, 5/8" ID x 1" OD x 0.125", YZ	4	4
3	112-007	JAM NUT, 5/8" UNC GR 2 YZ	1	1
4	114-005	LOCKNUT, 1/2" UNC NYL INS GR 2 YZ	4	4
5	118-007	STOVER NUT, 5/8" UNC GR 2 PLATED	1	1
6	165-009	Socket Countersunk Flat Head Cap Screw, 1/2-13 UNC, 1-1/2" LG	4	4
7	165-018	5/8" UNC x 4" LG STUD, 1-1/4" THD EACH END	1	1
8	206-006	3" x 16" CLEANER WHEEL	1	1
9	206-007	OPR, 18" x 5mm DISC	1	1
10	400-305B	SEAL SURFACE	1	-
11	400-3145	SPACER, DISC SEAL SURFACE, NEW OMEGA	1	-
12	405-1042A 405-2042A	ADR HUB II Assembly, RH ADR HUB II Assembly, LH (NOT SHOWN)	1	-
13	405-1075 405-2075	DOUBLE ROW BRG ASSY, RH DOUBLE ROW BRG ASSY, LH (NOT SHOWN)	-	1
14	206-111	BUSHING, BRONZE, 1-1/2 OD x 1-1/4 ID x 5/8" (Previously 405-1078)	-	1

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5.5.2 Disc Hub Serviceability for 405-1042 & 405-2042 Spindles

**405-1042 & 405-2042 SPINDLES:
SERVICEABILITY / COMPATIBILITIES
WITH ALTERNATE DISC HUBS**



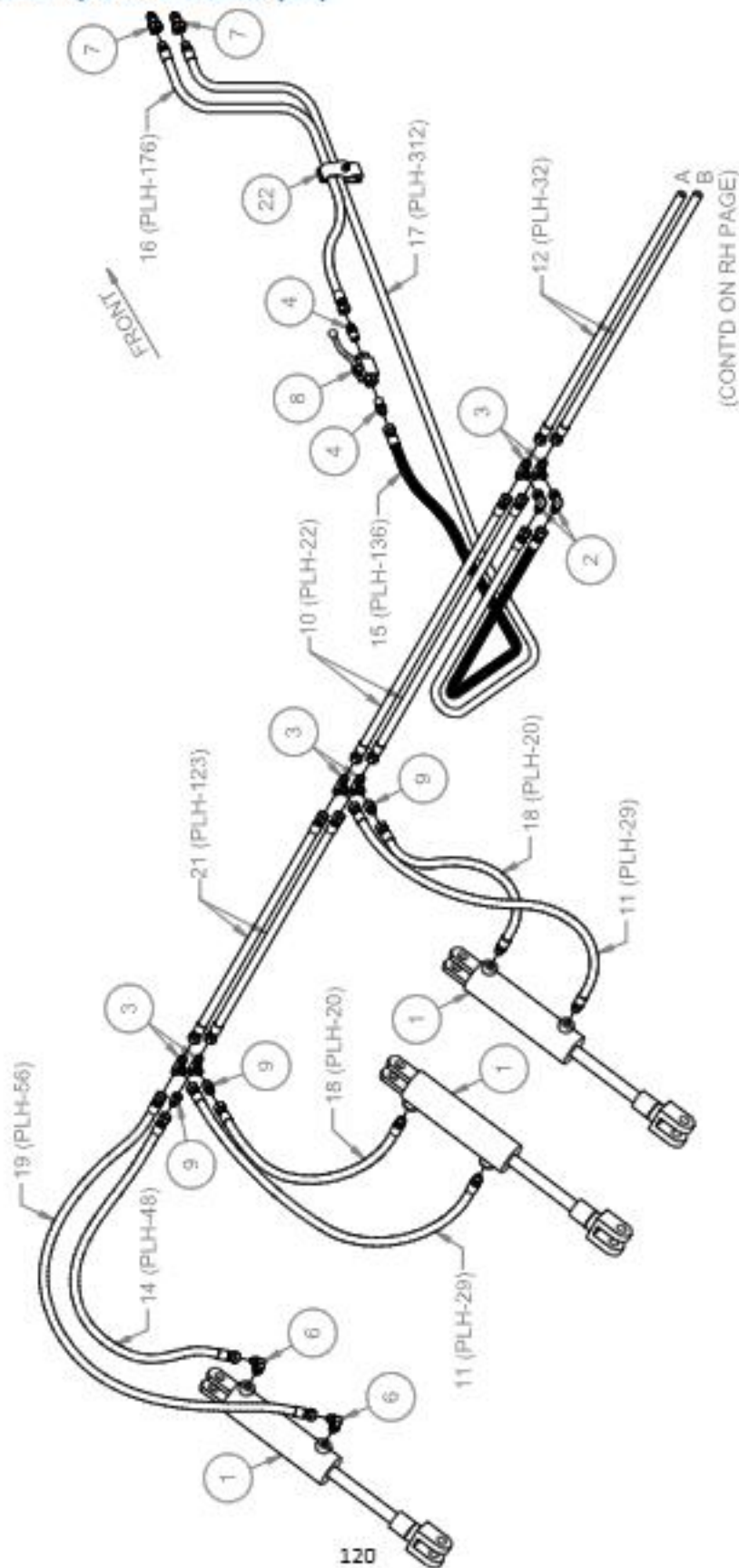
Disc Hub Serviceability for 405-1042 & 405-2042 Spindles

ITEM NO.	PART NUMBER	DESCRIPTION	ADR II HUB QTY	ADR I HUB QTY	CTD HUB QTY
1	102-044	WASHER, 1.406 x 1/16" THICK TYPE B YZ	-	1	1
2	206-014	DISC HUB, CTD ASSEMBLY	-	-	1
3	206-061	DISC HUB, ADR I (1 PIECE SEAL)	-	1	-
4	206-076	DISC HUB, ADR II ASSEMBLY	1	-	-
5	405-1042 405-2042	SPINDLE, RH, ADR HUB II SPINDLE, LH, ADR HUB II (NOT SHOWN)	1	1	1

6 Hydraulics

6.1 30' Drill Hydraulics

6.1.1 30' Subframe Hydraulic Circuit (LH)

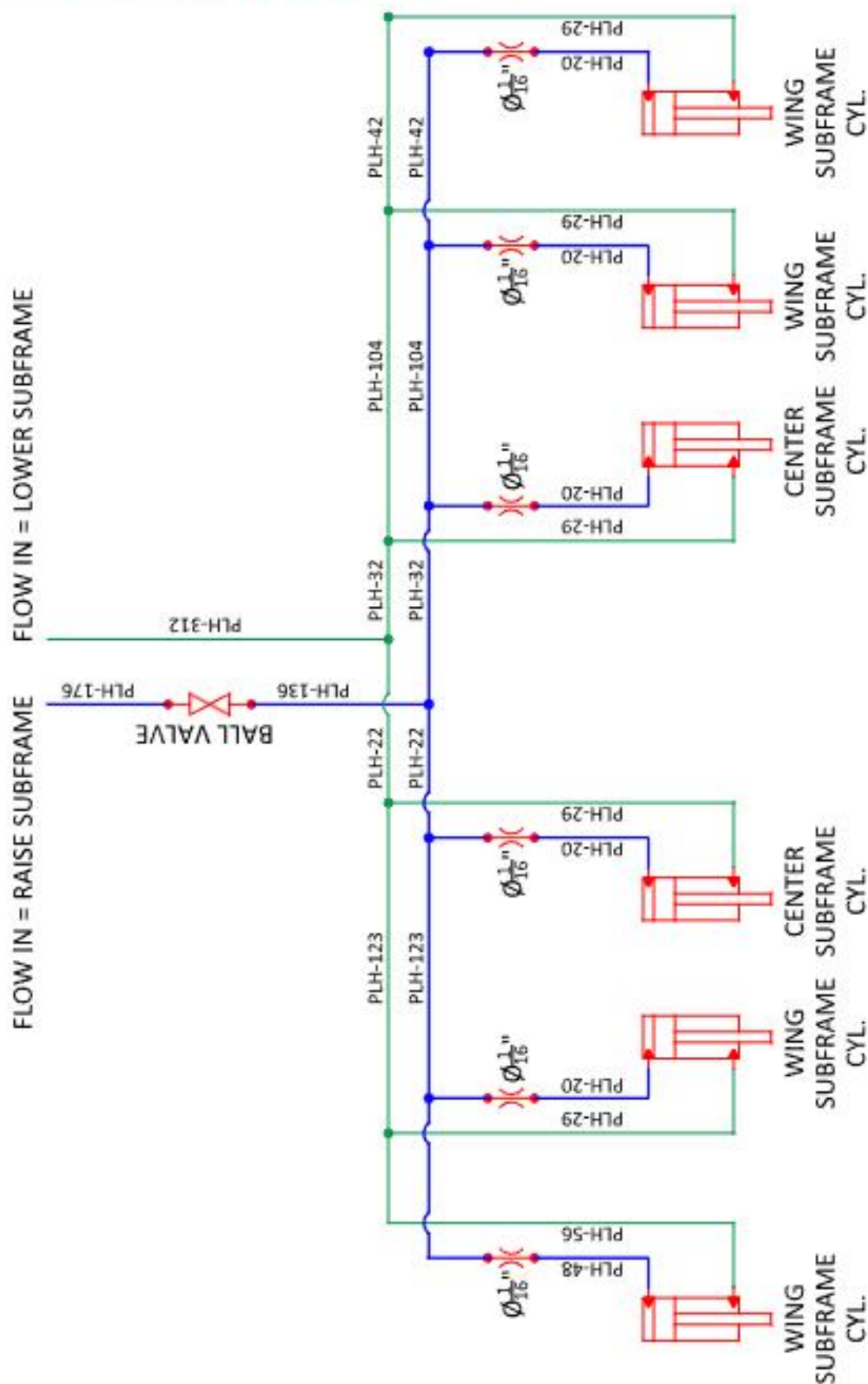


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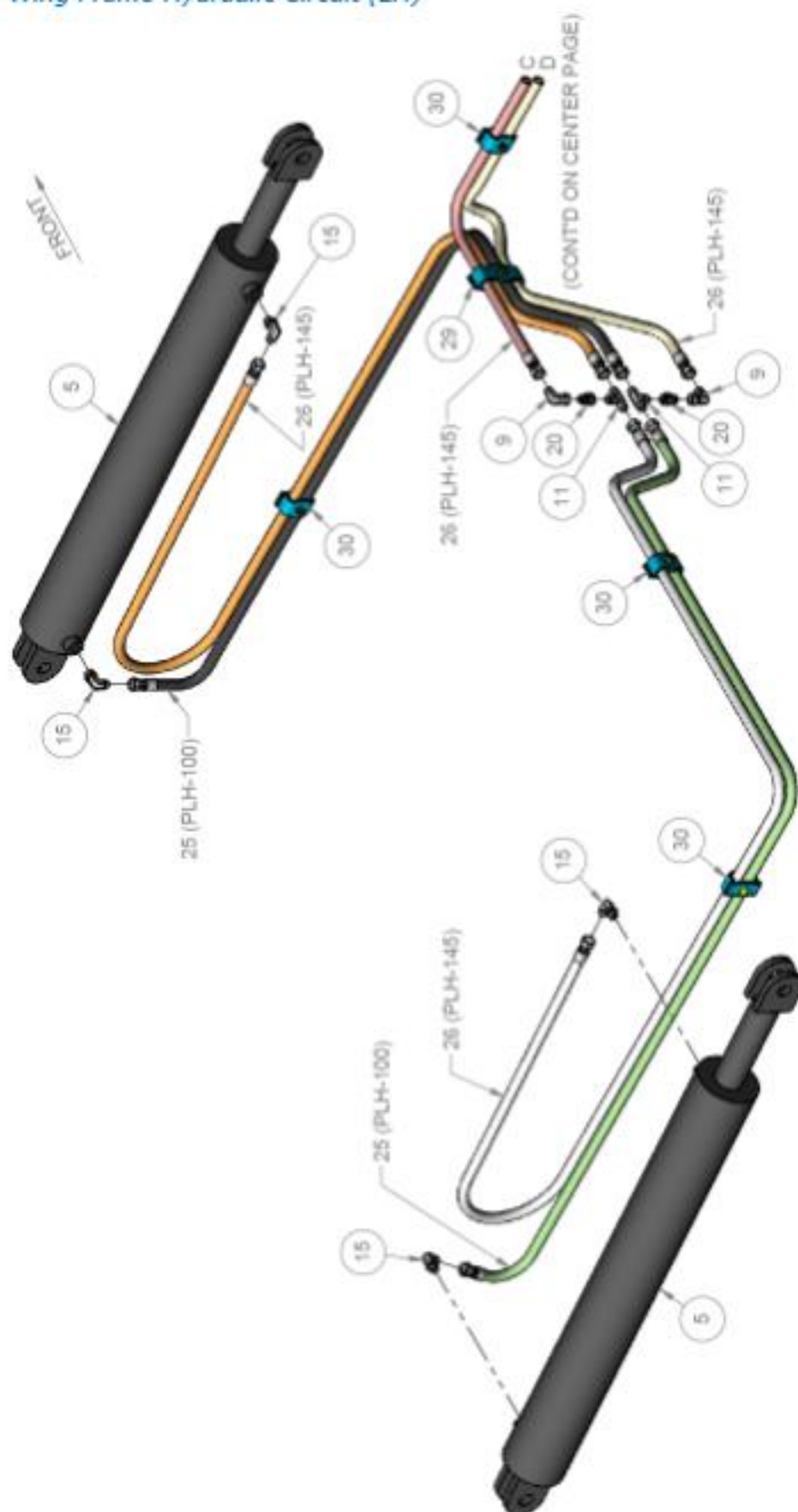
30' Subframe Hydraulic Circuit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	6
2	212-304	#8 M-JIC x #8 F-JIC-SW, 90	2
3	212-306	#8 M-JIC TEE	10
4	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	2
5	212-308	#8 M-JIC x #8 M-JIC, 90	2
6	212-311	#8 M-ORB x #8 M-JIC, 90	2
7	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
8	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
9	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16"AGL DRLD	6
10	212-504 (PLH-22)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
11	212-510 (PLH-29)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	5
12	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
13	212-515 (PLH-42)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
14	212-517 (PLH-48)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
15	212-532 (PLH-136)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
16	212-536 (PLH-176)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
17	212-557 (PLH-312)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
18	212-574 (PLH-20)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	5
19	212-578 (PLH-56)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
20	212-579 (PLH-104)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
21	212-580 (PLH-123)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
22	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-

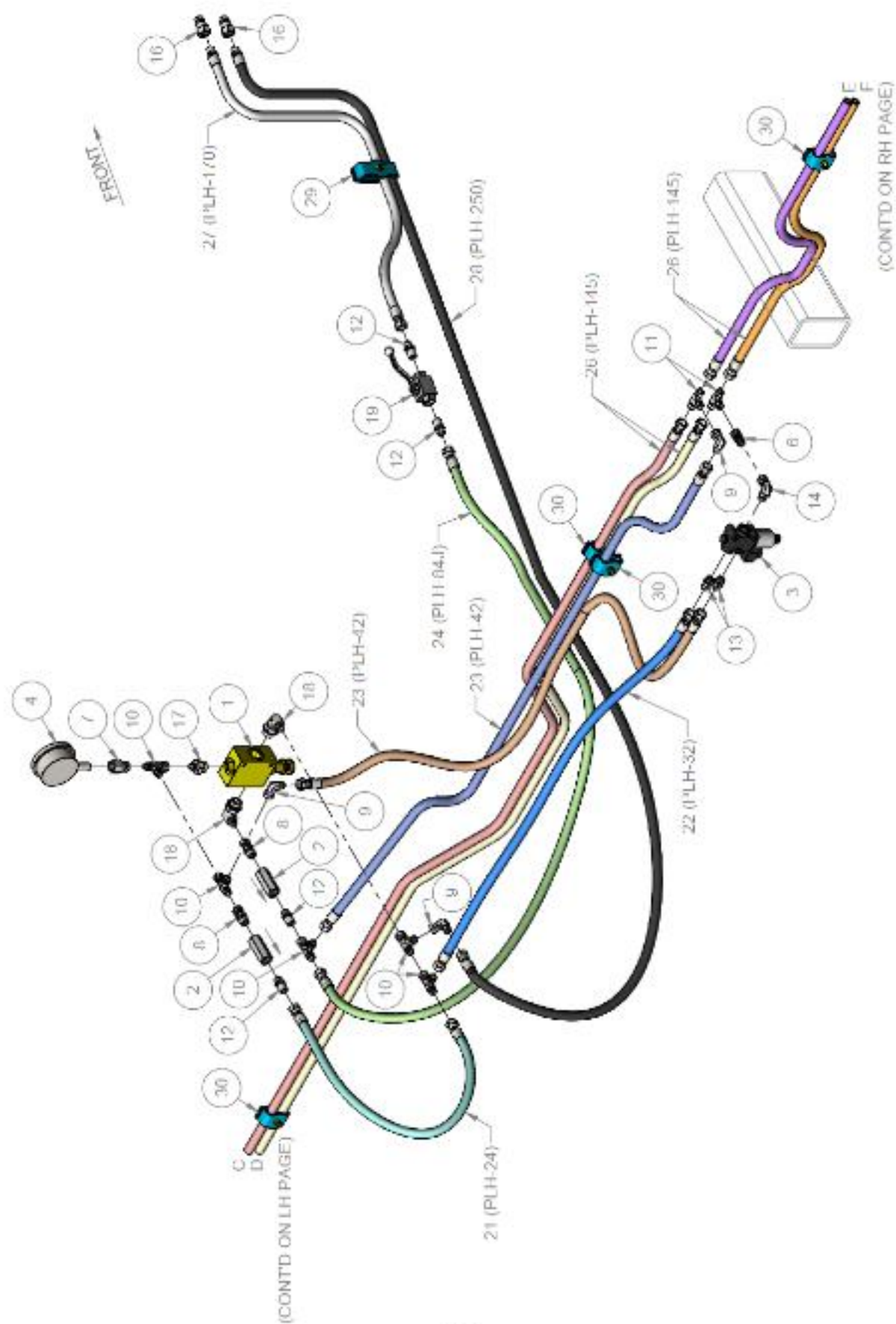
6.1.3 30' Subframe Hydraulic Circuit – Schematic



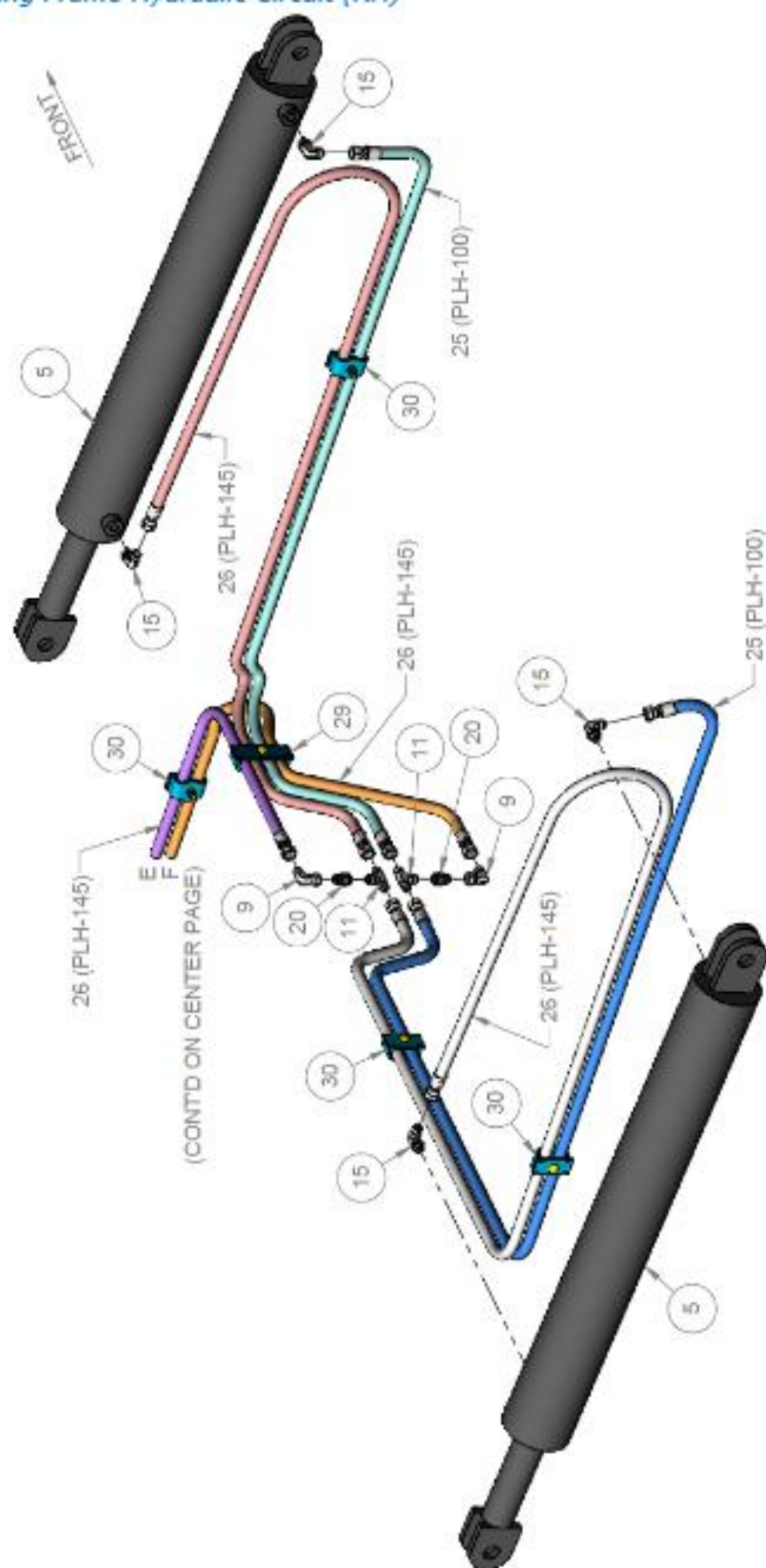
6.1.4 30' Wing Frame Hydraulic Circuit (LH)



6.1.5 30' Wing Frame Hydraulic Circuit (Center)



6.1.6 30' Wing Frame Hydraulic Circuit (RH)

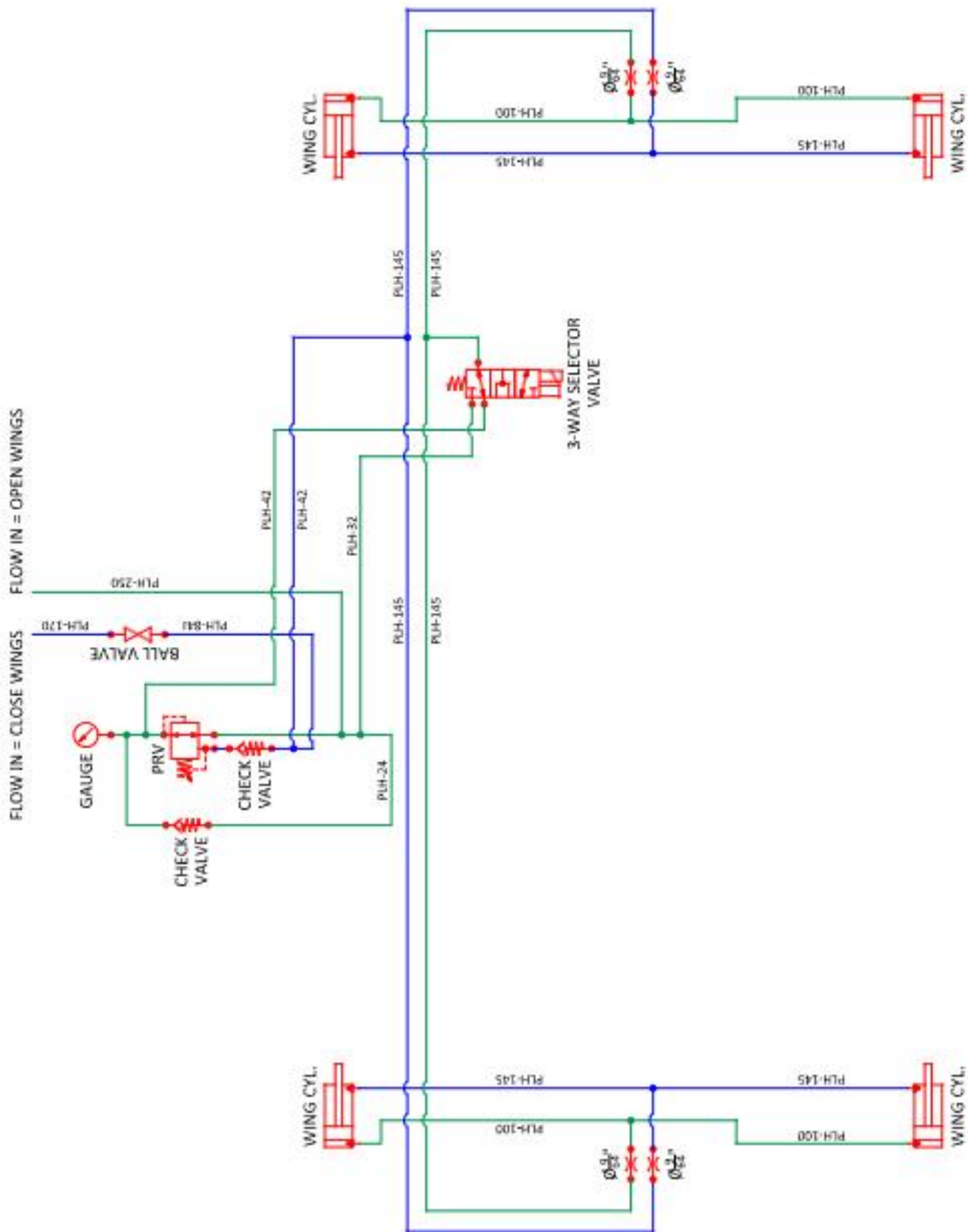


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30' Wing Frame Hydraulic Circuit

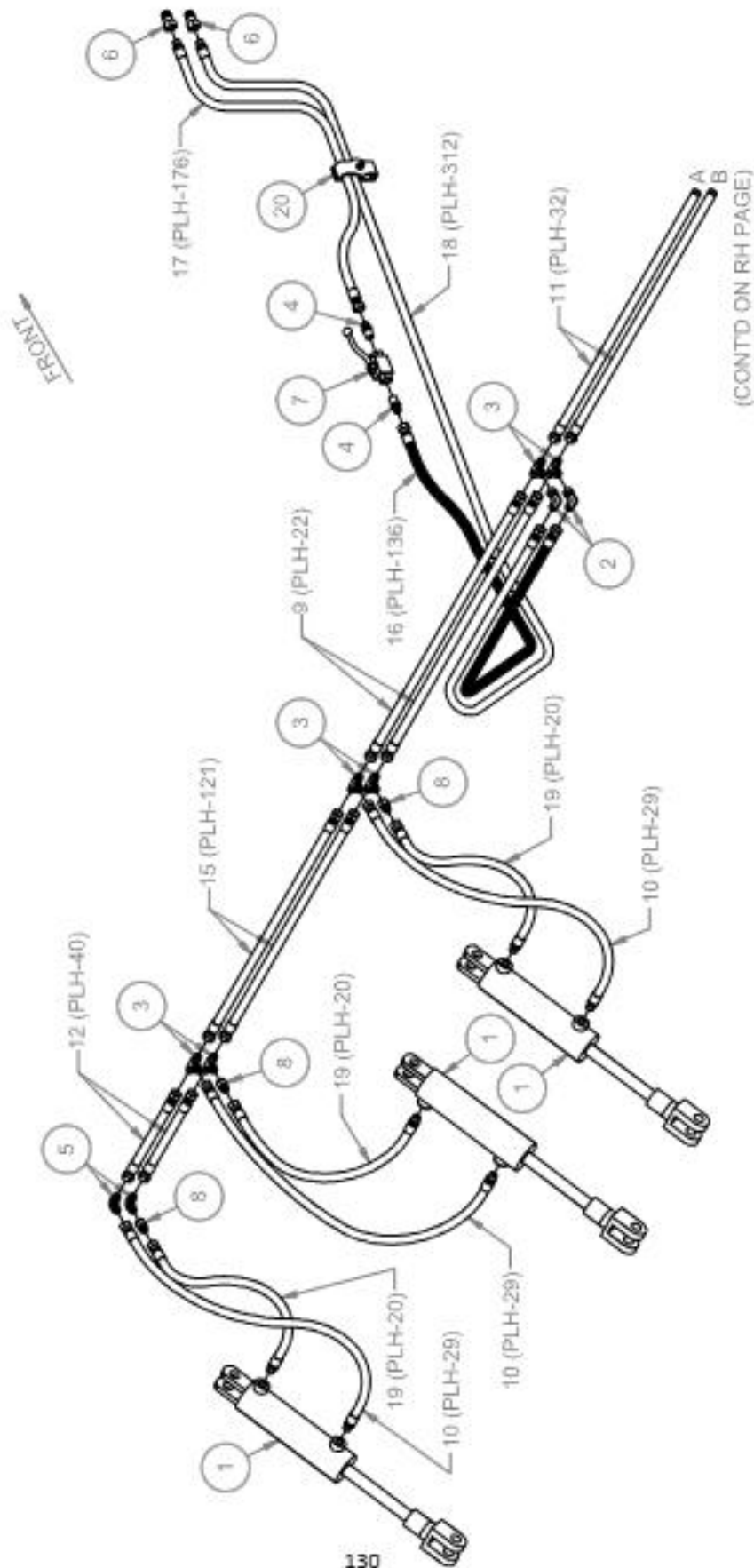
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-020	VALVE, PRV	1
2	212-022	CHECK VALVE, P/N: DLT - EDC305	2
3	212-024	VALVE, SELECTOR, WALVOIL P/N: DFE052/3-A-18-ES-W201-12VDC-SAE-CVN	1
4	212-047	4" LIQUID FILLED SS PRESSURE GAUGE, 0-5000 PSI	1
5	212-159	5" x 40" HYD CYL, RAM P/N: R4508695	4
6	212-301	#8 M-JIC x #8 F-JIC-SW	1
7	212-302	1/2" F-NPT x #8 F-JIC-SW, ADAPTER	1
8	212-303	1/2" M-NPT x #8 F-JIC-SW, ADAPTER	2
9	212-304	#8 M-JIC x #8 F-JIC-SW, 90	7
10	212-305	#8 JIC RUN TEE, M-F SW-M	5
11	212-306	#8 M-JIC TEE	6
12	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	4
13	212-309	#8 M-ORB x #8 M-JIC, ADAPTER	2
14	212-310	#8 M-ORB x #8 F-JIC-SW, 90 ADAPTER	1
15	212-311	#8 M-ORB x #8 M-JIC, 90	8
16	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
17	212-315	#12 M-ORB x #8 M-JIC, ADAPTER	1
18	212-318	#12 M-ORB x #8 M-JIC, 90 ADAPTER	2
19	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
20	212-327	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 9/64" STR DRILLED	4
21	212-506 (PLH-24)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
22	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
23	212-515 (PLH-42)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
24	212-522 (PLH-84)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
25	212-527 (PLH-100)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
26	212-534 (PLH-145)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	8
27	212-535 (PLH-170)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
28	212-548 (PLH-250)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
29	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-
30	600-1061	HOSE CLAMP KIT, 1/2" HOSE X 2	-

6.1.7 30' Wing Frame Hydraulic Circuit – Schematic

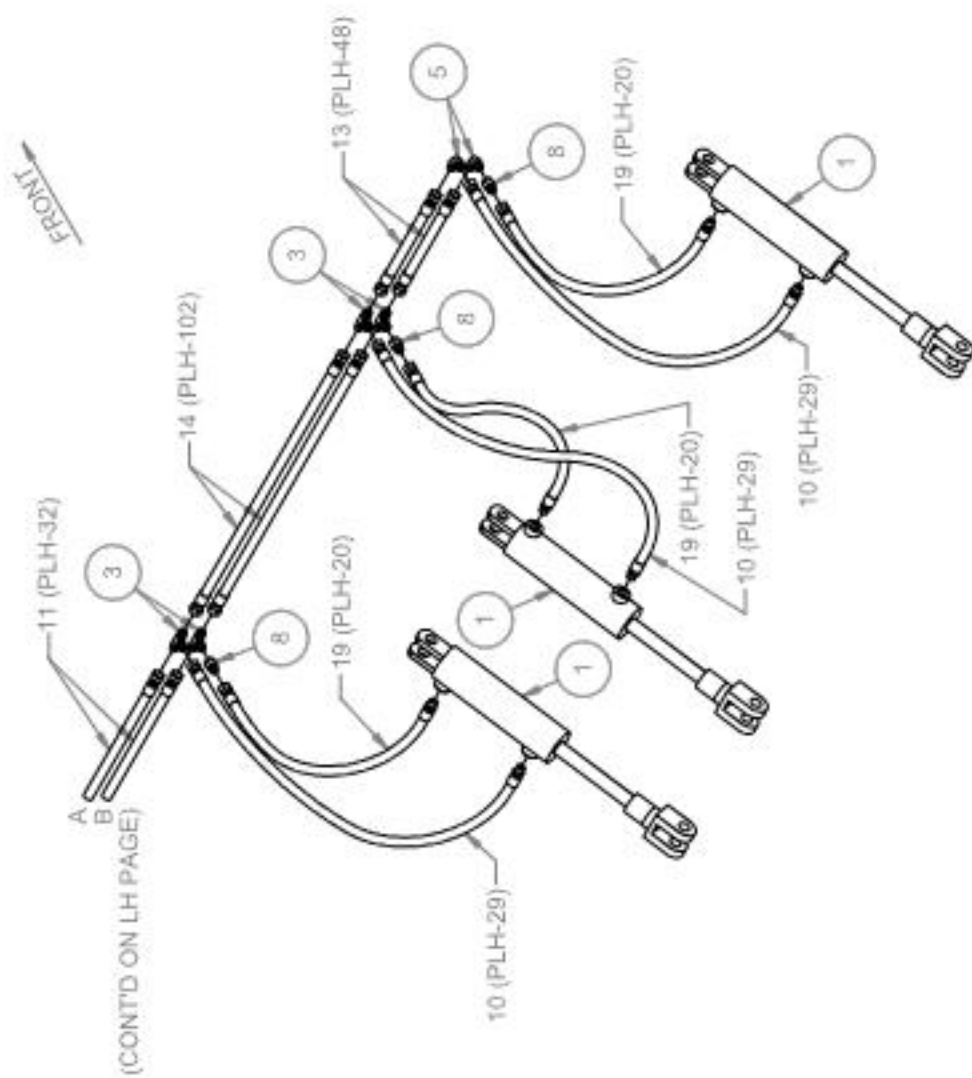


6.2 40' Drill Hydraulics

6.2.1 40' Subframe Hydraulic Circuit (LH)



6.2.2 40' Subframe Hydraulic Circuit (RH)

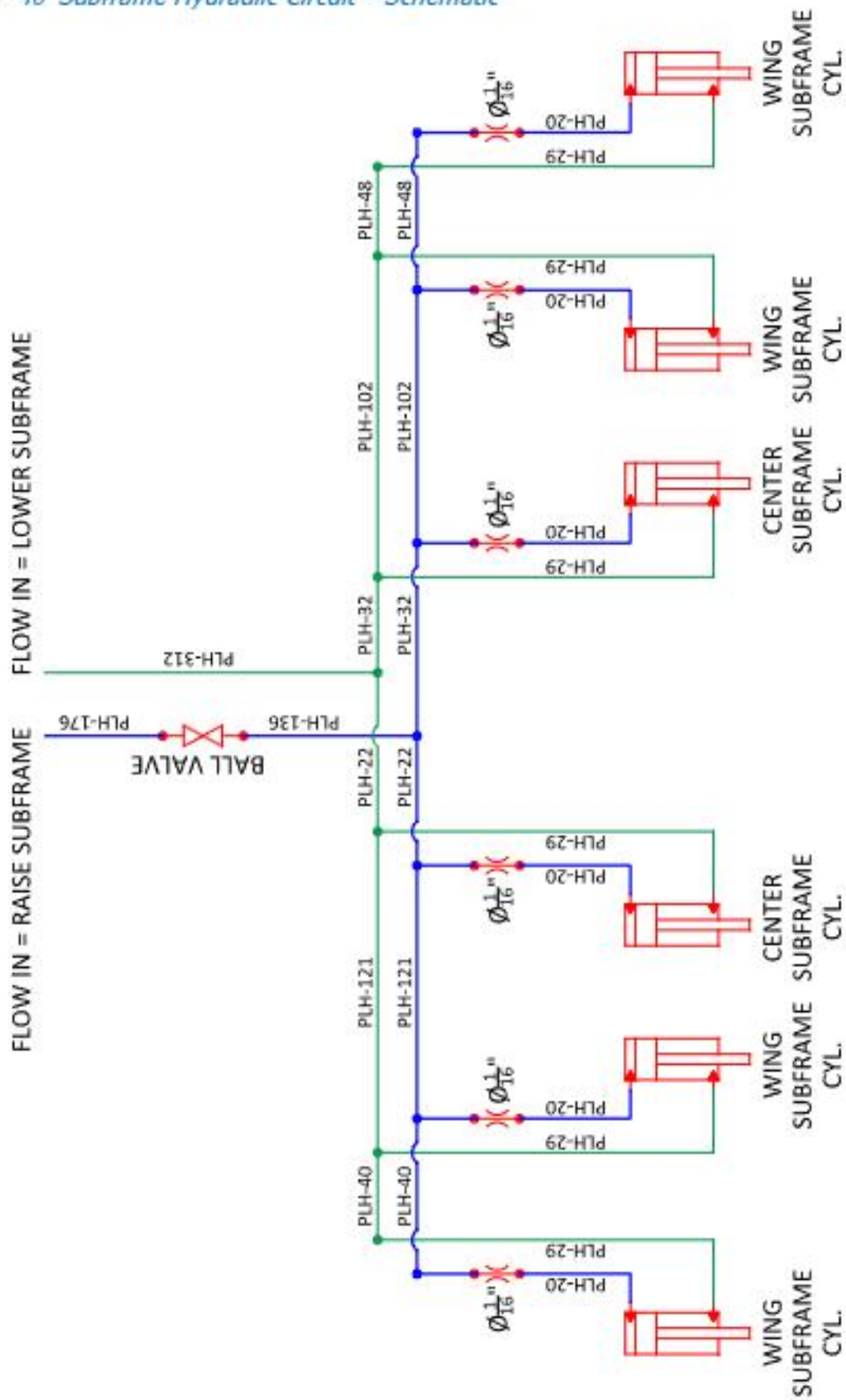


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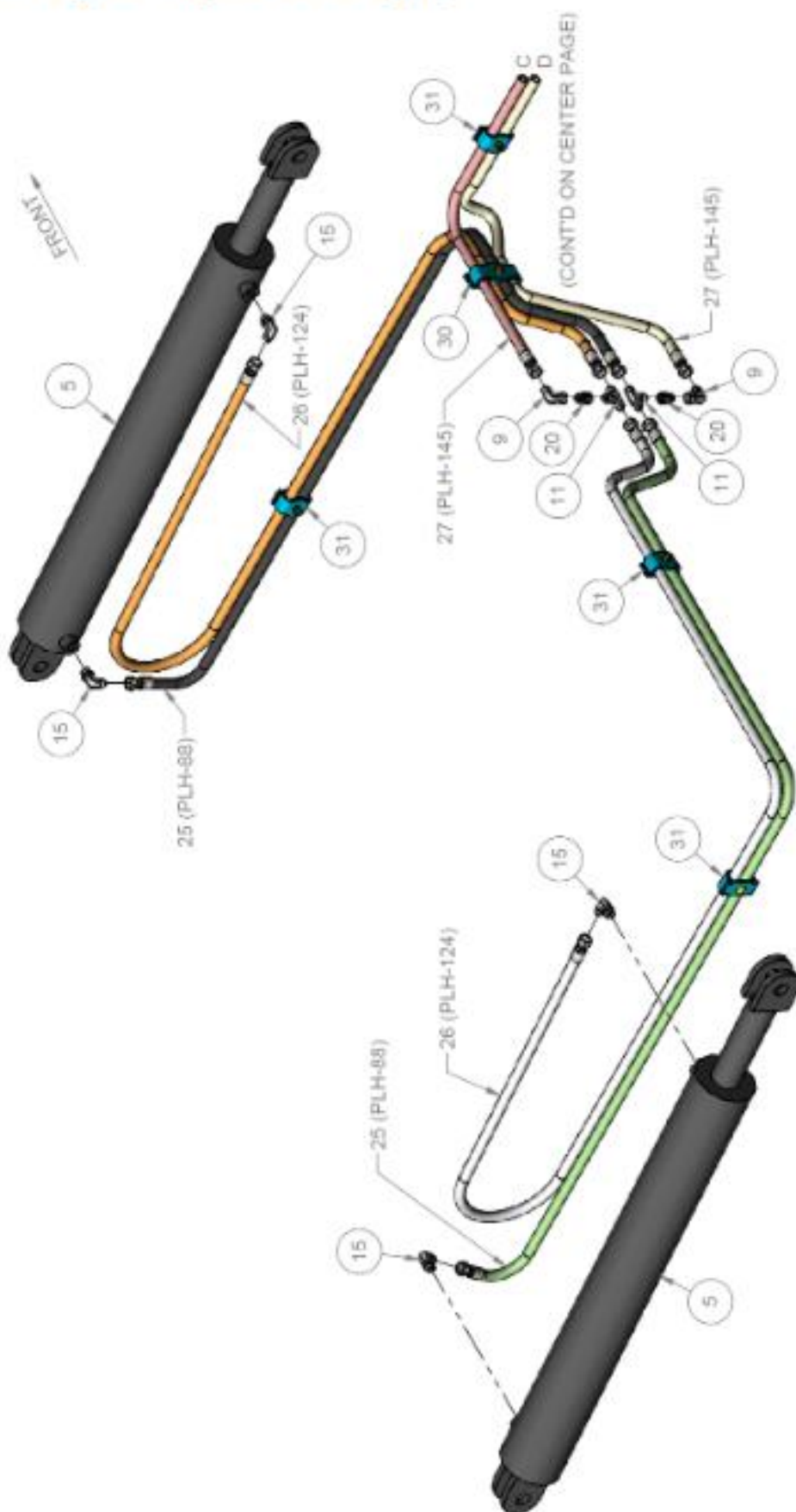
40' Subframe Hydraulic Circuit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	6
2	212-304	#8 M-JIC x #8 F-JIC-SW, 90	2
3	212-306	#8 M-JIC TEE	10
4	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	2
5	212-308	#8 M-JIC x #8 M-JIC, 90	4
6	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
7	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
8	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16"AGL DRLD	6
9	212-504 (PLH-22)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
10	212-510 (PLH-29)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	6
11	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
12	212-514 (PLH-40)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
13	212-517 (PLH-48)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
14	212-528 (PLH-102)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
15	212-530 (PLH-121)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
16	212-532 (PLH-136)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
17	212-536 (PLH-176)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
18	212-557 (PLH-312)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
19	212-574 (PLH-20)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	6
20	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-

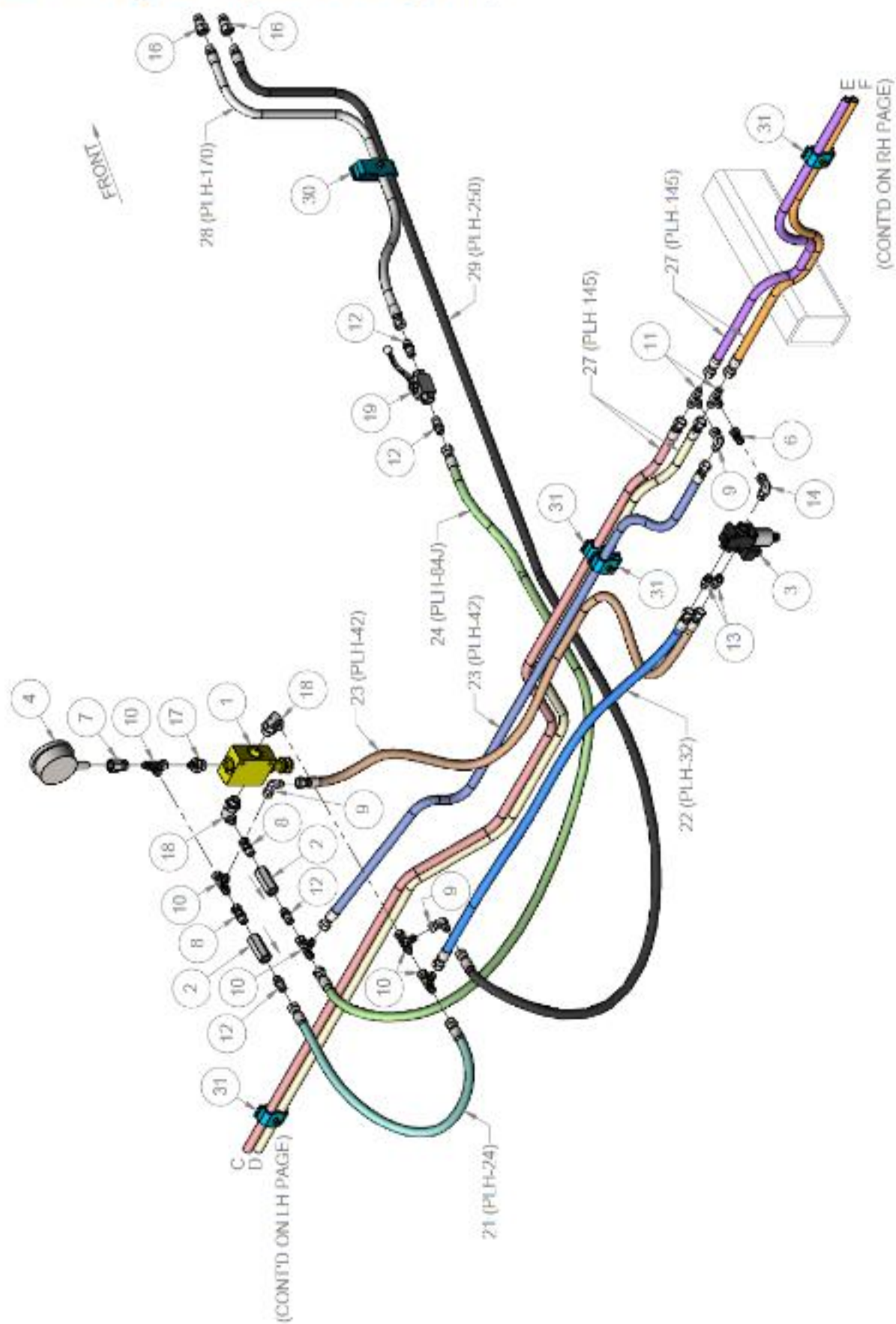
6.2.3 40' Subframe Hydraulic Circuit – Schematic



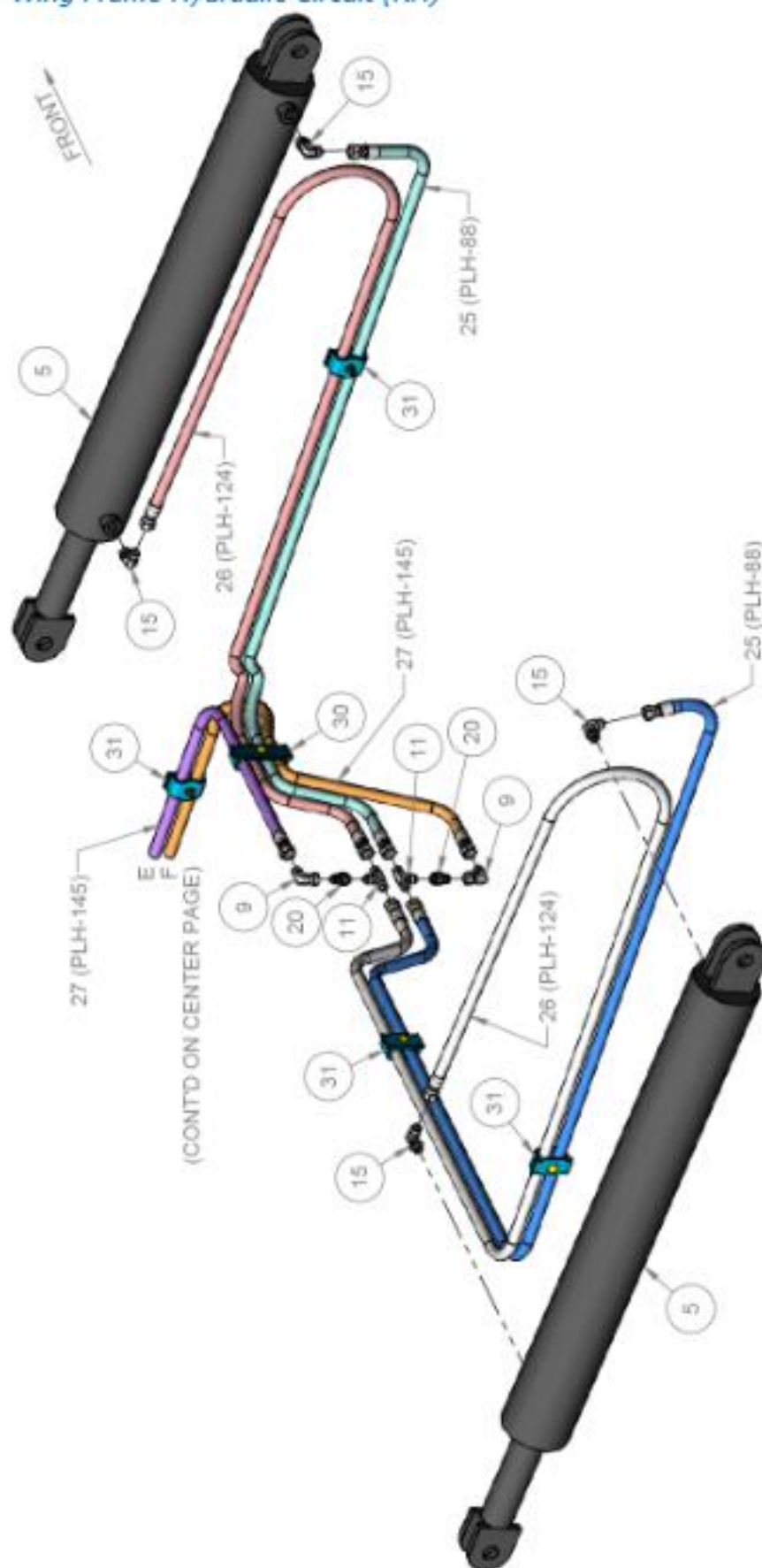
6.2.4 40' Wing Frame Hydraulic Circuit (LH)



6.2.5 40' Wing Frame Hydraulic Circuit (Center)



6.2.6 40' Wing Frame Hydraulic Circuit (RH)

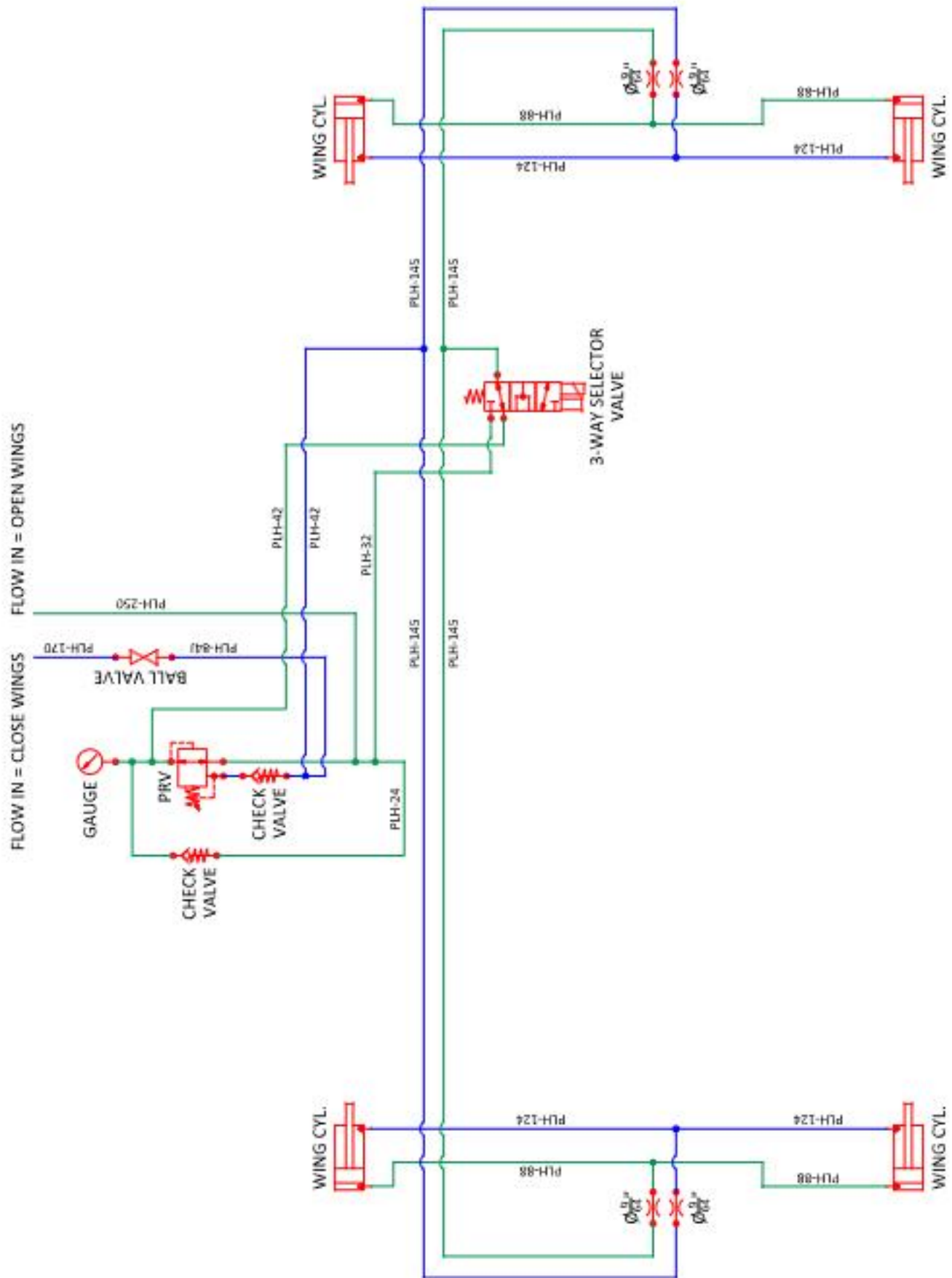


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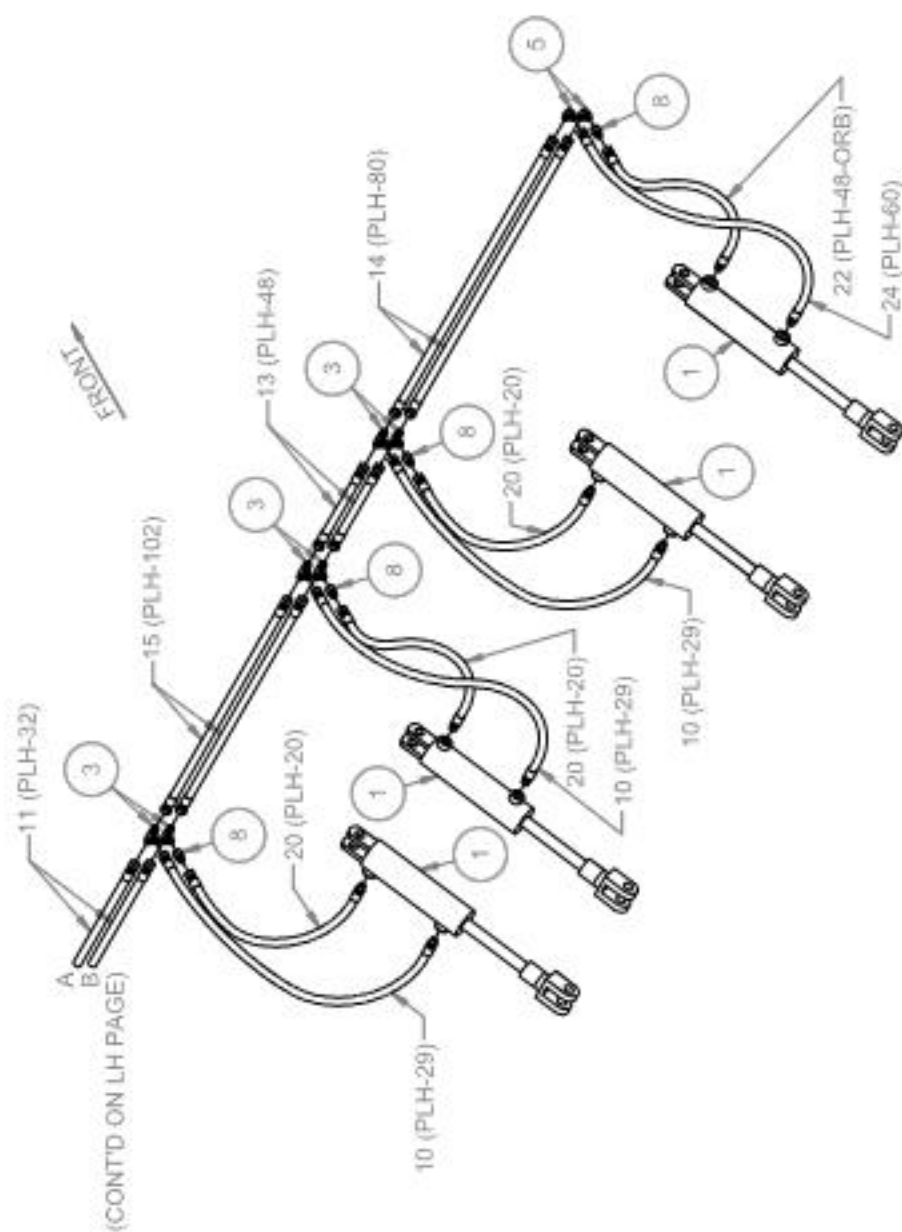
40' Wing Frame Hydraulic Circuit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-020	VALVE, PRV	1
2	212-022	CHECK VALVE, P/N: DLT - EDC305	2
3	212-024	VALVE, SELECTOR, WALVOIL P/N: DFE052/3-A-18-ES-W201-12VDC-SAE-CVN	1
4	212-047	4" LIQUID FILLED SS PRESSURE GAUGE, 0-5000 PSI	1
5	212-159	5" x 40" HYD CYL, RAM P/N: R4508695	4
6	212-301	#8 M-JIC x #8 F-JIC-SW	1
7	212-302	1/2" F-NPT x #8 F-JIC-SW, ADAPTER	1
8	212-303	1/2" M-NPT x #8 F-JIC-SW, ADAPTER	2
9	212-304	#8 M-JIC x #8 F-JIC-SW, 90	7
10	212-305	#8 JIC RUN TEE, M-F SW-M	5
11	212-306	#8 M-JIC TEE	6
12	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	4
13	212-309	#8 M-ORB x #8 M-JIC, ADAPTER	2
14	212-310	#8 M-ORB x #8 F-JIC-SW, 90 ADAPTER	1
15	212-311	#8 M-ORB x #8 M-JIC, 90	8
16	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
17	212-315	#12 M-ORB x #8 M-JIC, ADAPTER	1
18	212-318	#12 M-ORB x #8 M-JIC, 90 ADAPTER	2
19	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
20	212-327	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 9/64" STR DRILLED	4
21	212-506 (PLH-24)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
22	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
23	212-515 (PLH-42)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
24	212-522 (PLH-84)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
25	212-523 (PLH-88)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
26	212-531 (PLH-124)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
27	212-534 (PLH-145)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
28	212-535 (PLH-170)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
29	212-548 (PLH-250)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
30	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-
31	600-1061	HOSE CLAMP KIT, 1/2" HOSE X 2	-

6.2.7 40' Wing Frame Hydraulic Circuit – Schematic



6.3.2 50' Subframe Hydraulic Circuit (RH)

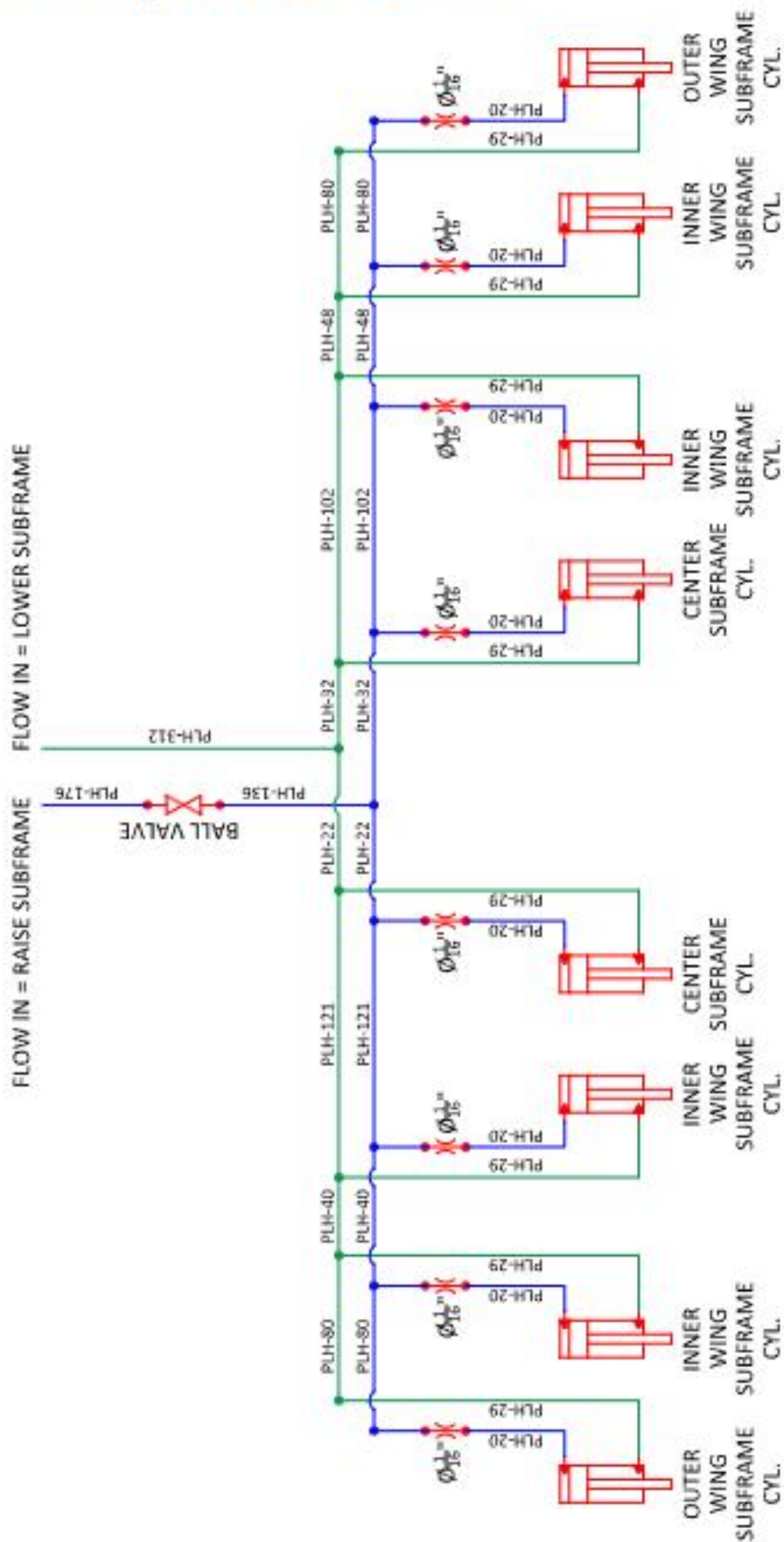


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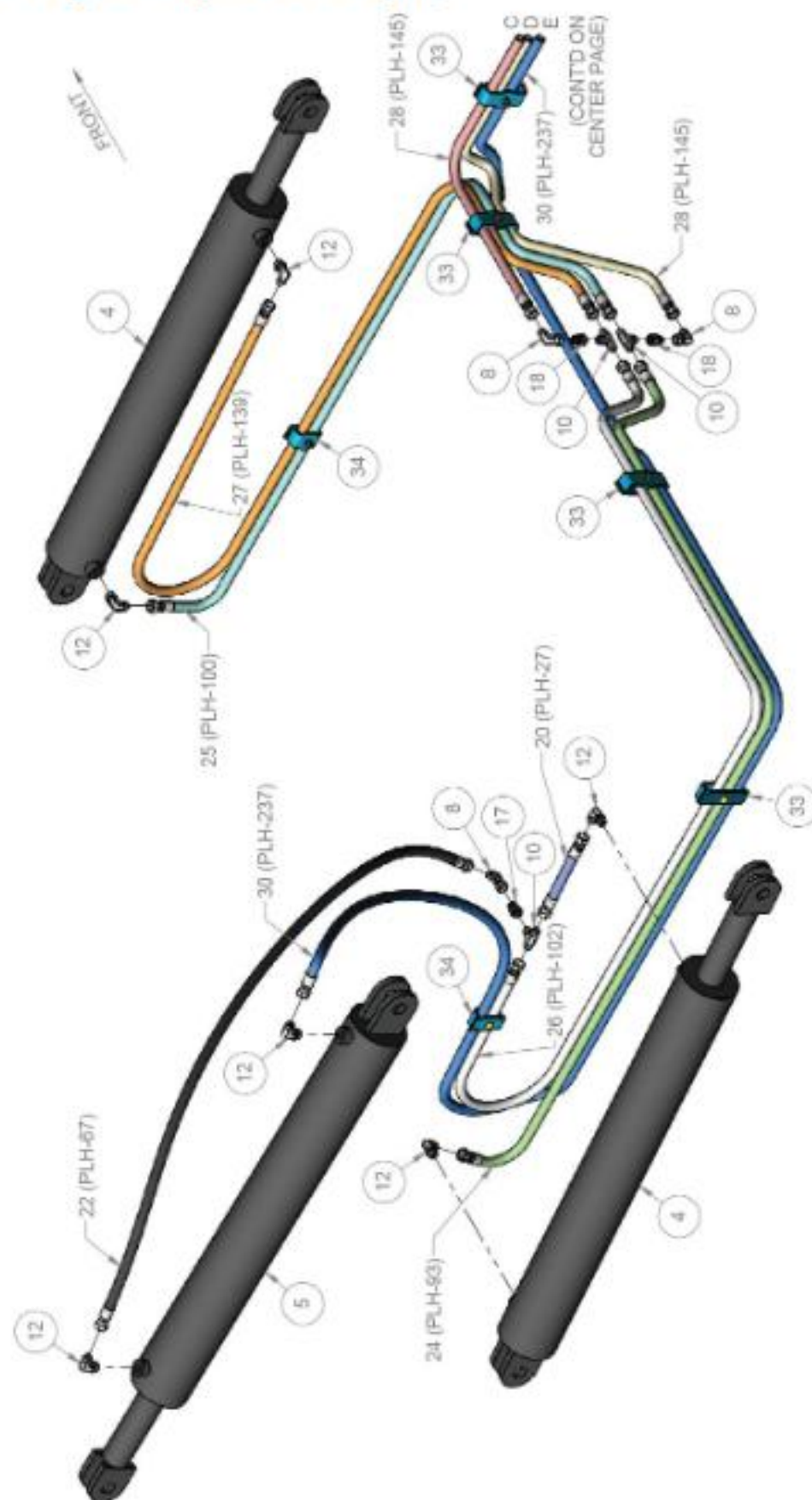
50' Subframe Hydraulic Circuit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	8
2	212-304	#8 M-JIC x #8 F-JIC-SW, 90	2
3	212-306	#8 M-JIC TEE	14
4	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	2
5	212-308	#8 M-JIC x #8 M-JIC, 90	4
6	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
7	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
8	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16"AGL DRLD	8
9	212-504 (PLH-22)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
10	212-510 (PLH-29)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	8
11	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
12	212-514 (PLH-40)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
13	212-517 (PLH-48)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
14	212-520 (PLH-80)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
15	212-528 (PLH-102)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
16	212-530 (PLH-121)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
17	212-532 (PLH-136)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
18	212-536 (PLH-176)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
19	212-557 (PLH-312)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
20	212-574 (PLH-20)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	8
21	212-584 (PLH-44)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
22	212-585 (PLH-48-ORB)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
23	212-586 (PLH-56-ORB)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
24	212-587 (PLH-60)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
25	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-

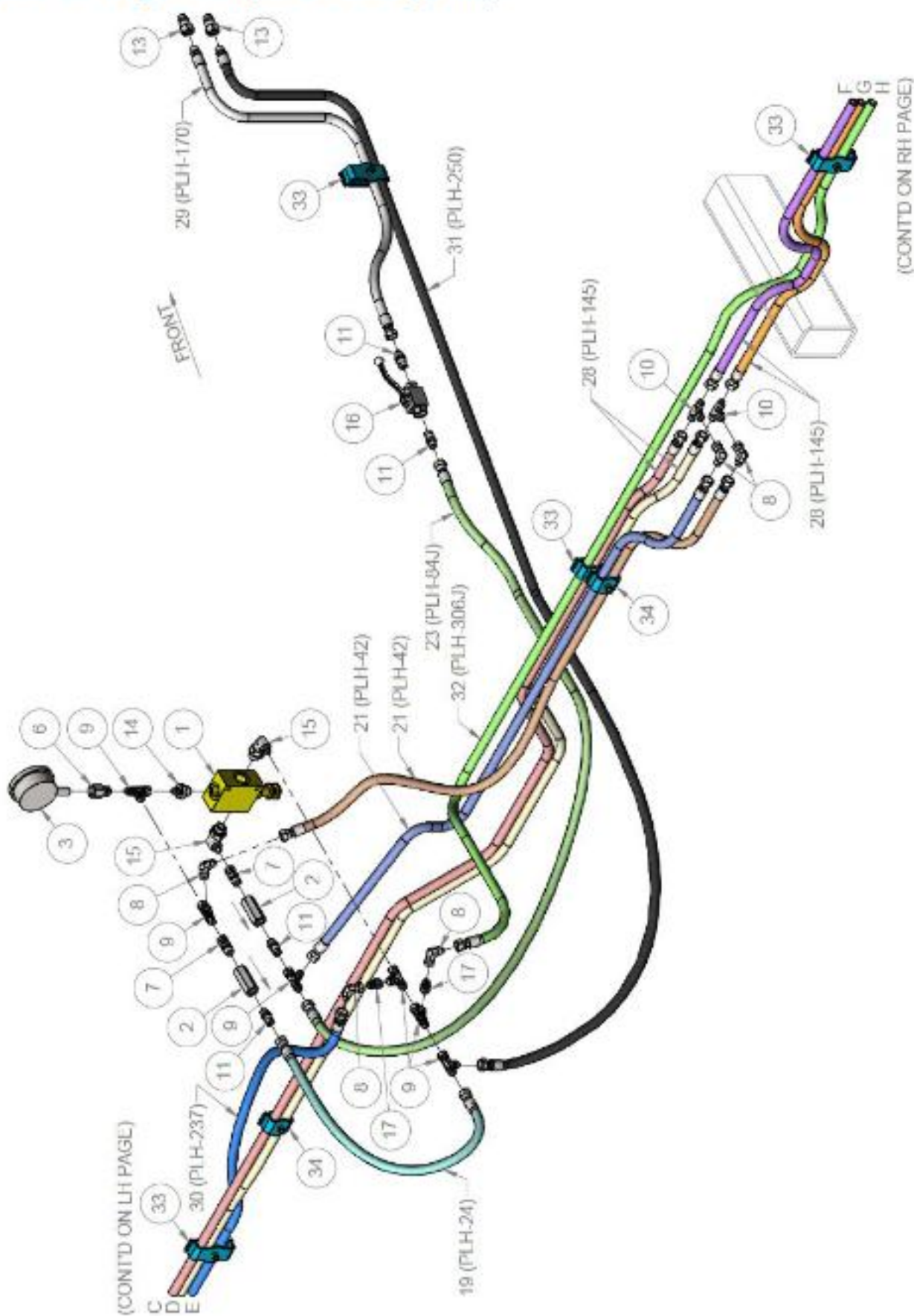
6.3.3 50' Subframe Hydraulic Circuit – Schematic



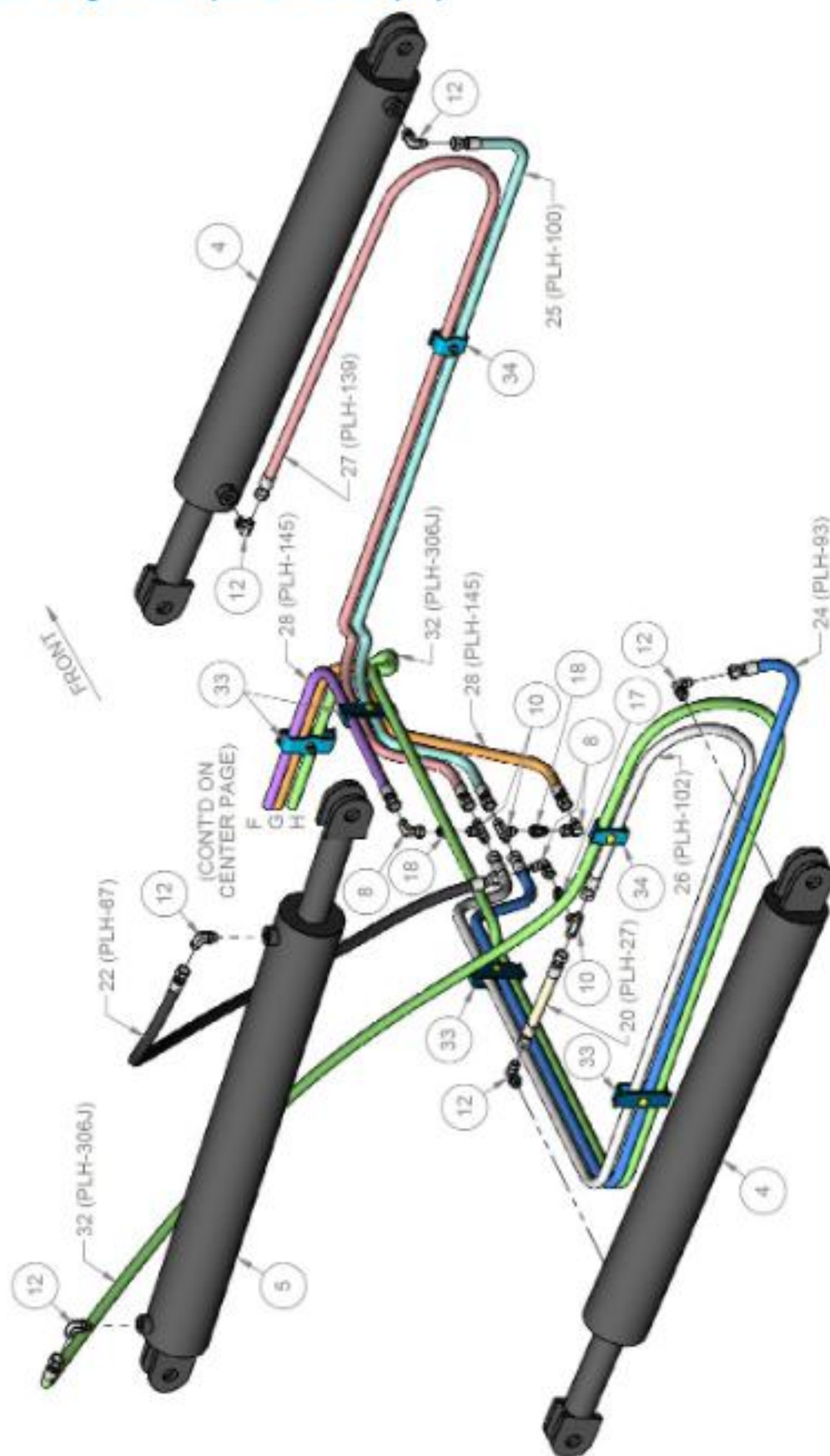
6.3.4 50' Wing Frame Hydraulic Circuit (LH)



6.3.5 50' Wing Frame Hydraulic Circuit (Center)



6.3.6 50' Wing Frame Hydraulic Circuit (RH)

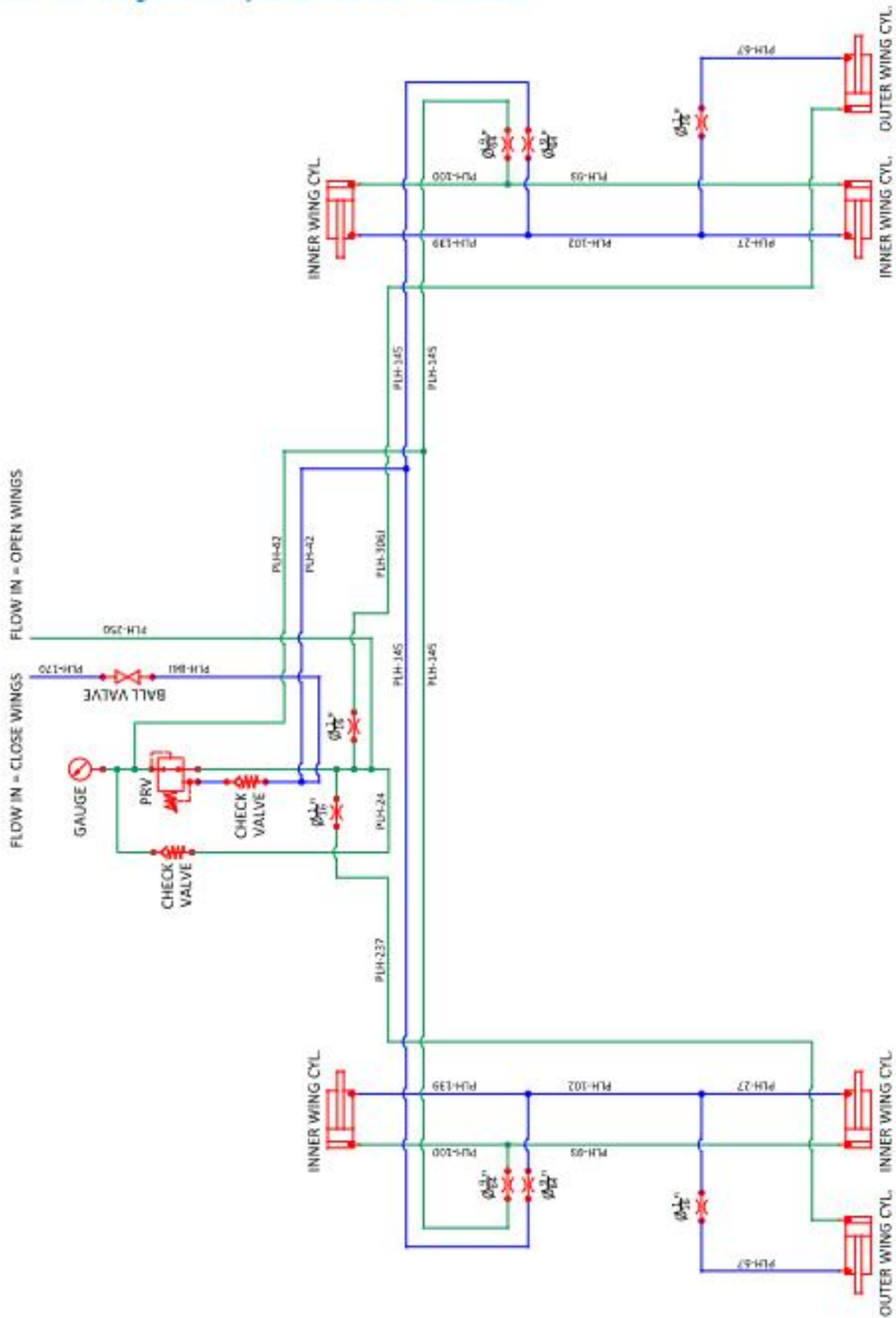


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50' Wing Frame Hydraulic Circuit

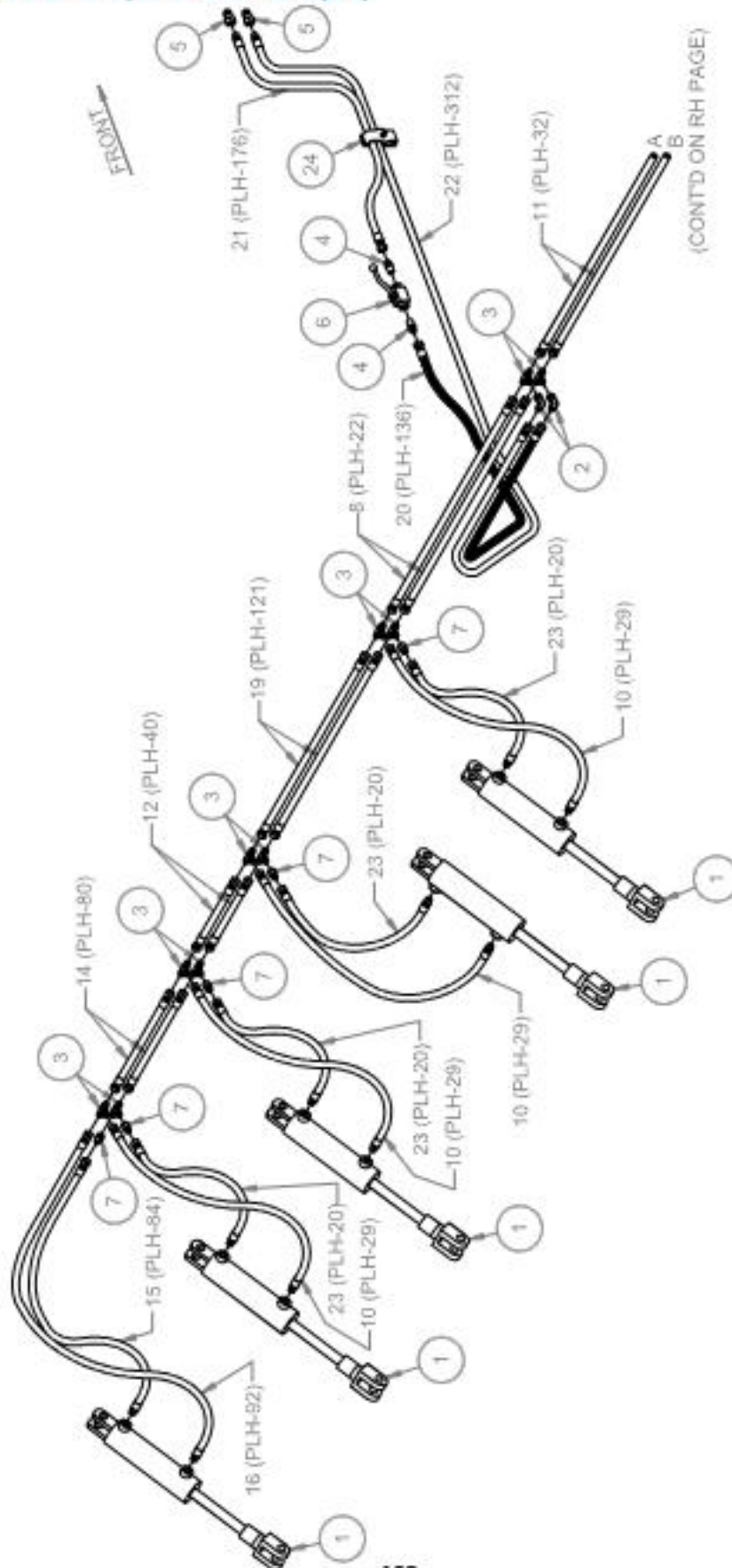
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-020	VALVE, PRV	1
2	212-022	CHECK VALVE, P/N: DLT - EDC305	2
3	212-047	4" LIQUID FILLED SS PRESSURE GAUGE, 0-5000 PSI	1
4	212-159	5" x 40" HYD CYL, RAM P/N: R4508695	4
5	212-160	5" x 40" HYD CYL, RAM P/N: R4508696	2
6	212-302	1/2" F-NPT x #8 F-JIC-SW, ADAPTER	1
7	212-303	1/2" M-NPT x #8 F-JIC-SW, ADAPTER	2
8	212-304	#8 M-JIC x #8 F-JIC-SW, 90	11
9	212-305	#8 JIC RUN TEE, M-F SW-M	6
10	212-306	#8 M-JIC TEE	8
11	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	4
12	212-311	#8 M-ORB x #8 M-JIC, 90	12
13	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
14	212-315	#12 M-ORB x #8 M-JIC, ADAPTER	1
15	212-318	#12 M-ORB x #8 M-JIC, 90 ADAPTER	2
16	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
17	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16" AGL DRLD	4
18	212-327	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 9/64" STR DRILLED	4
19	212-506 (PLH-24)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
20	212-509 (PLH-27)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
21	212-515 (PLH-42)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
22	212-518 (PLH-67)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
23	212-522 (PLH-84J)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
24	212-525 (PLH-93)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
25	212-527 (PLH-100)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
26	212-528 (PLH-102)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
27	212-533 (PLH-139)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
28	212-534 (PLH-145)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
29	212-535 (PLH-170)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
30	212-544 (PLH-237)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
31	212-548 (PLH-250)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
32	212-555 (PLH-306J)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
33	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-
34	600-1061	HOSE CLAMP KIT, 1/2" HOSE X 2	-

6.3.7 50' Wing Frame Hydraulic Circuit - Schematic

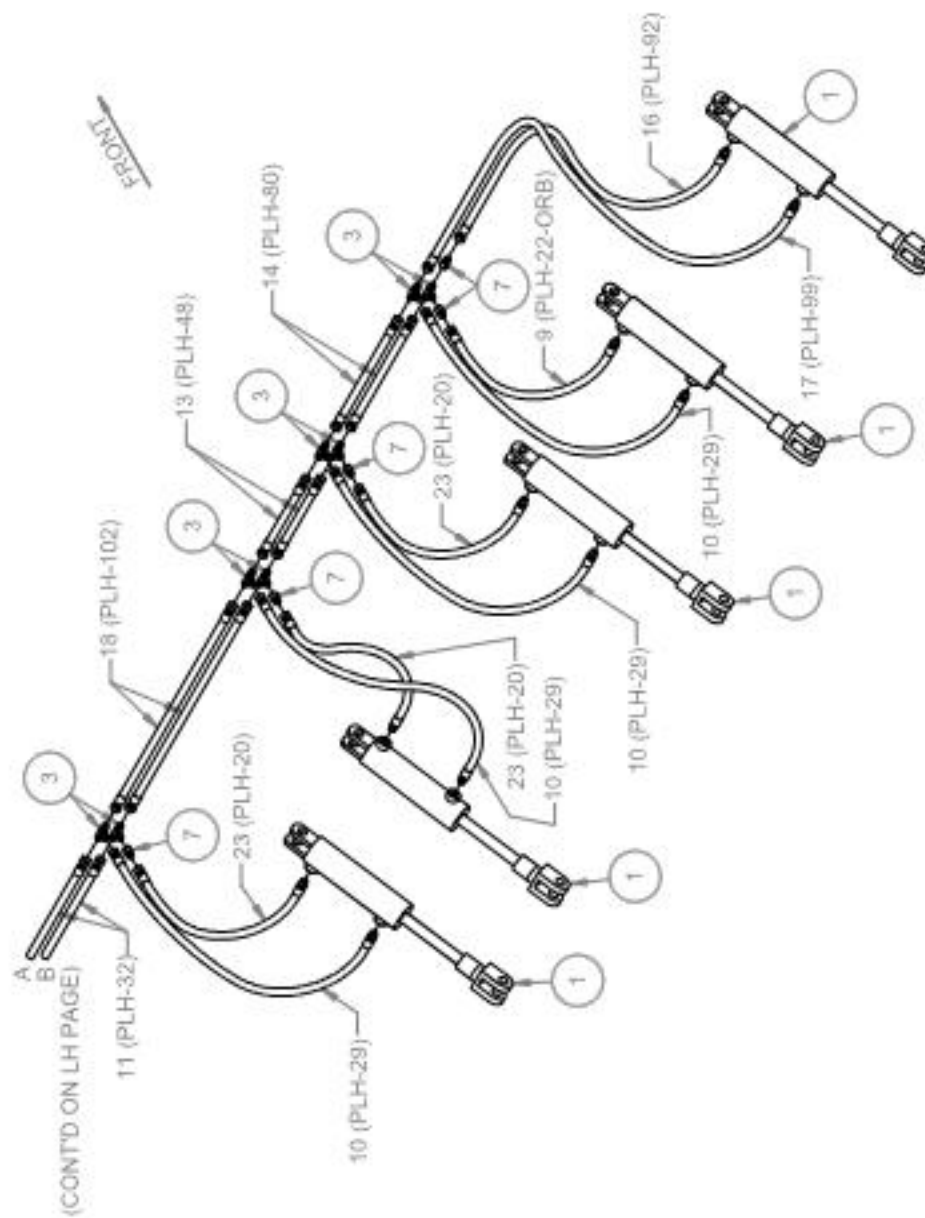


6.4 60' Drill Hydraulics

6.4.1 60' Subframe Hydraulic Circuit (LH)



6.4.2 60' Subframe Hydraulic Circuit (RH)



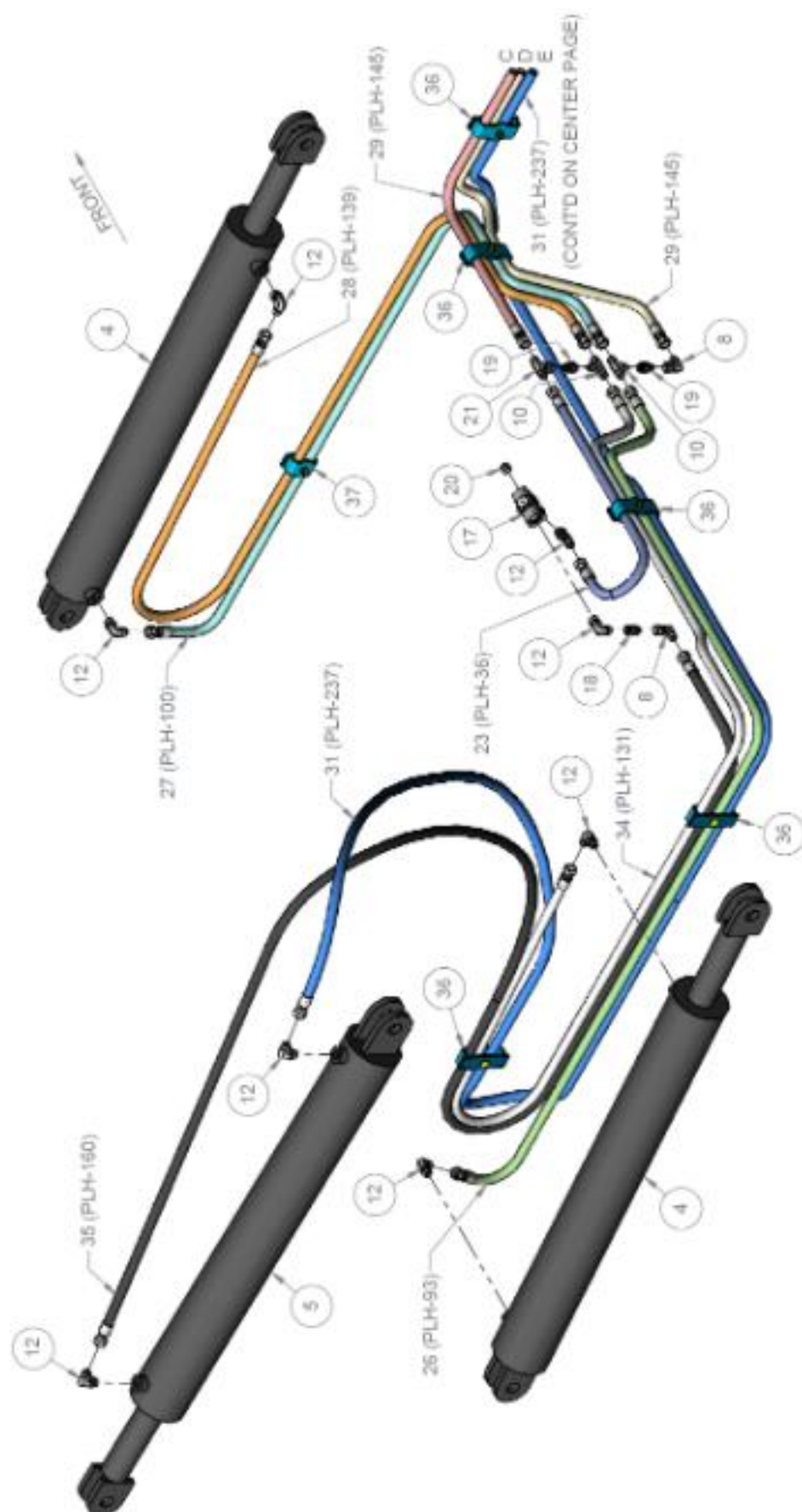
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60' Subframe Hydraulic Circuit

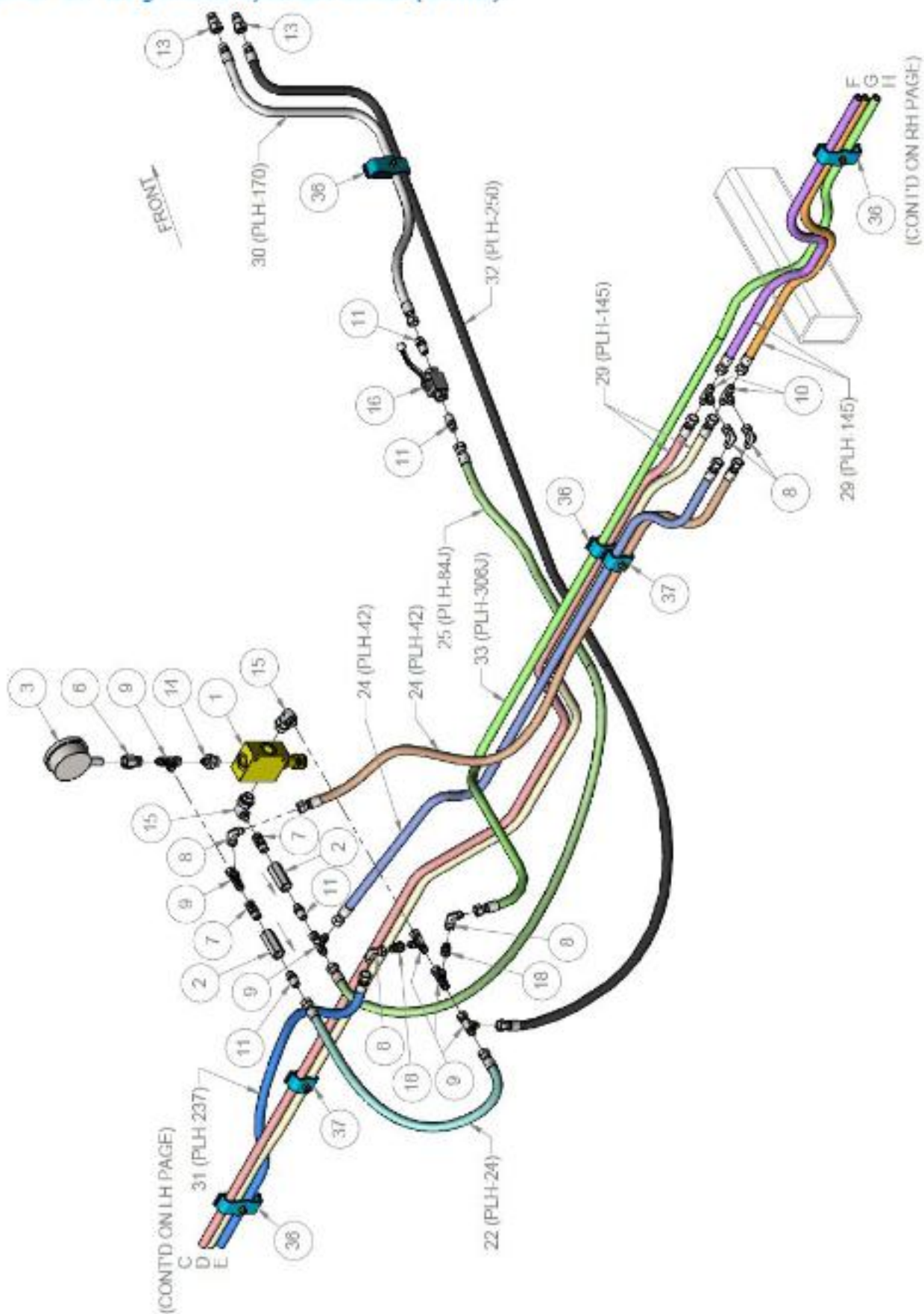
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-405	HYD. CYLINDER, 3" x 9" (19.25" RETRACT LENGTH)	10
2	212-304	#8 M-JIC x #8 F-JIC-SW, 90	2
3	212-306	#8 M-JIC TEE	18
4	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	2
5	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
6	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
7	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16"AGL DRLD	10
8	212-504 (PLH-22)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
9	212-505 (PLH-22-ORB)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
10	212-510 (PLH-29)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	8
11	212-512 (PLH-32)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
12	212-514 (PLH-40)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
13	212-517 (PLH-48)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
14	212-520 (PLH-80)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
15	212-521 (PLH-84)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
16	212-524 (PLH-92)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	2
17	212-526 (PLH-99)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
18	212-528 (PLH-102)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
19	212-530 (PLH-121)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
20	212-532 (PLH-136)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
21	212-536 (PLH-176)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
22	212-557 (PLH-312)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
23	212-574 (PLH-20)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	7
24	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-



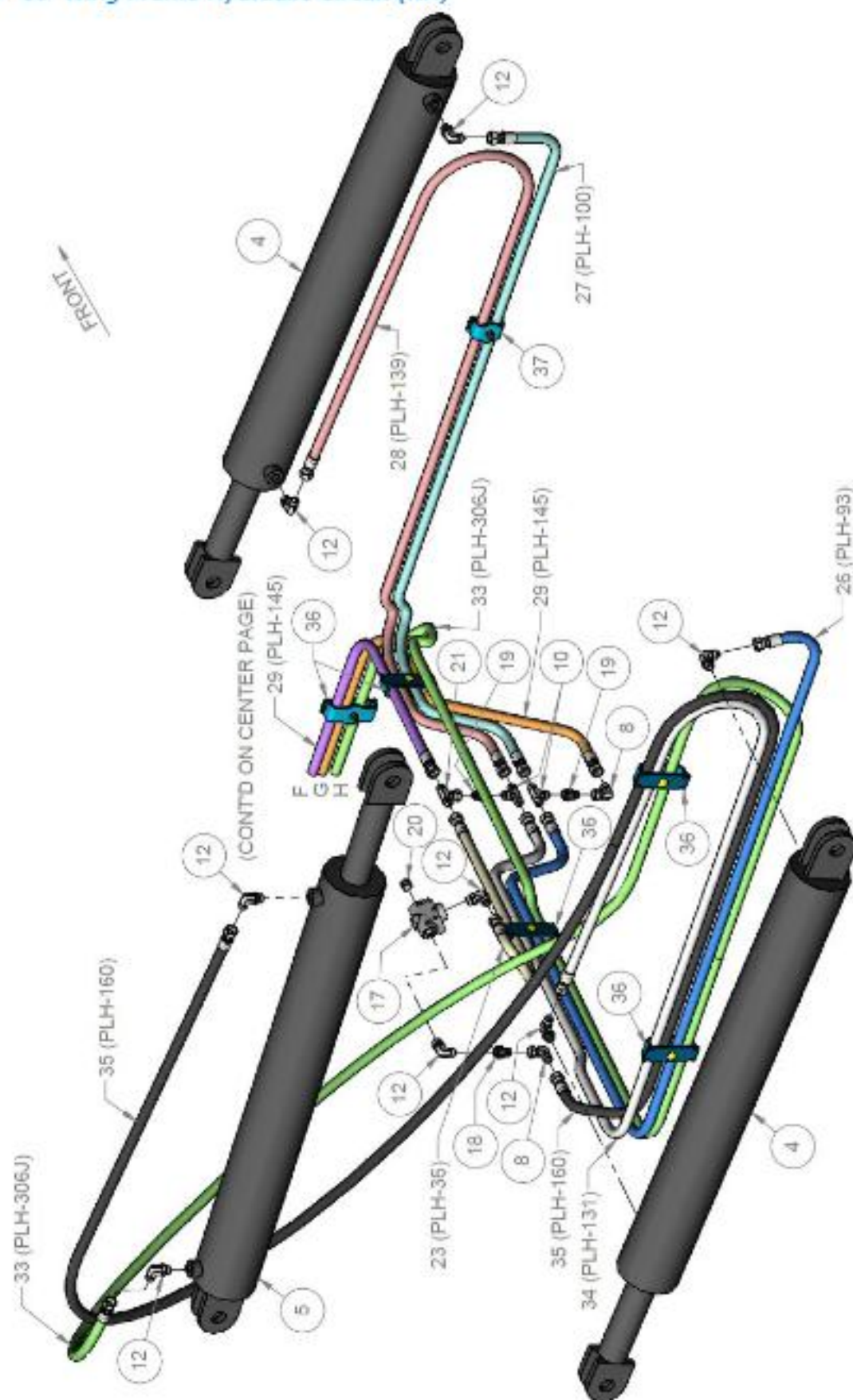
6.4.4 60' Wing Frame Hydraulic Circuit (LH)



6.4.5 60' Wing Frame Hydraulic Circuit (Center)



6.4.6 60' Wing Frame Hydraulic Circuit (RH)

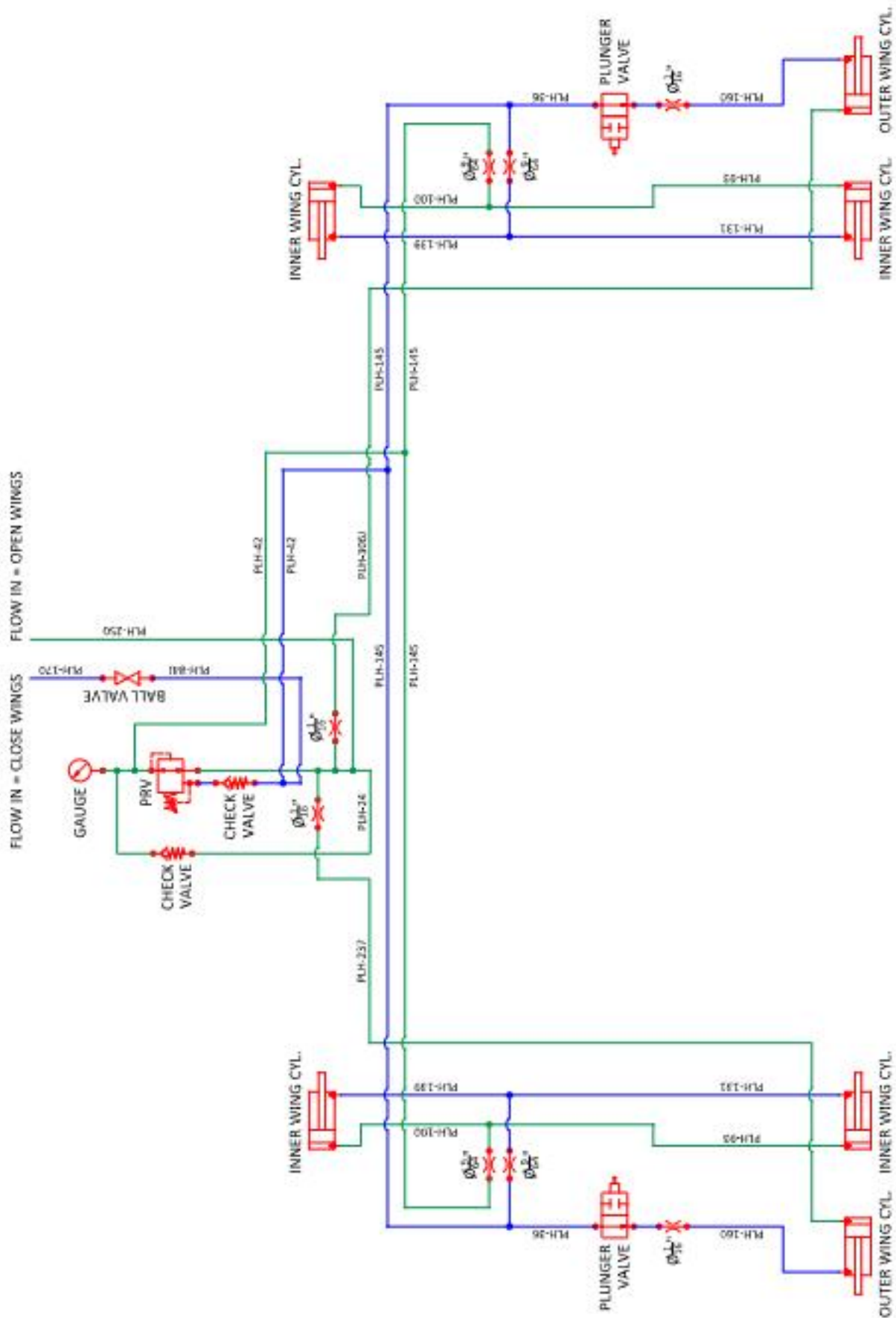


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60' Wing Frame Hydraulic Circuit

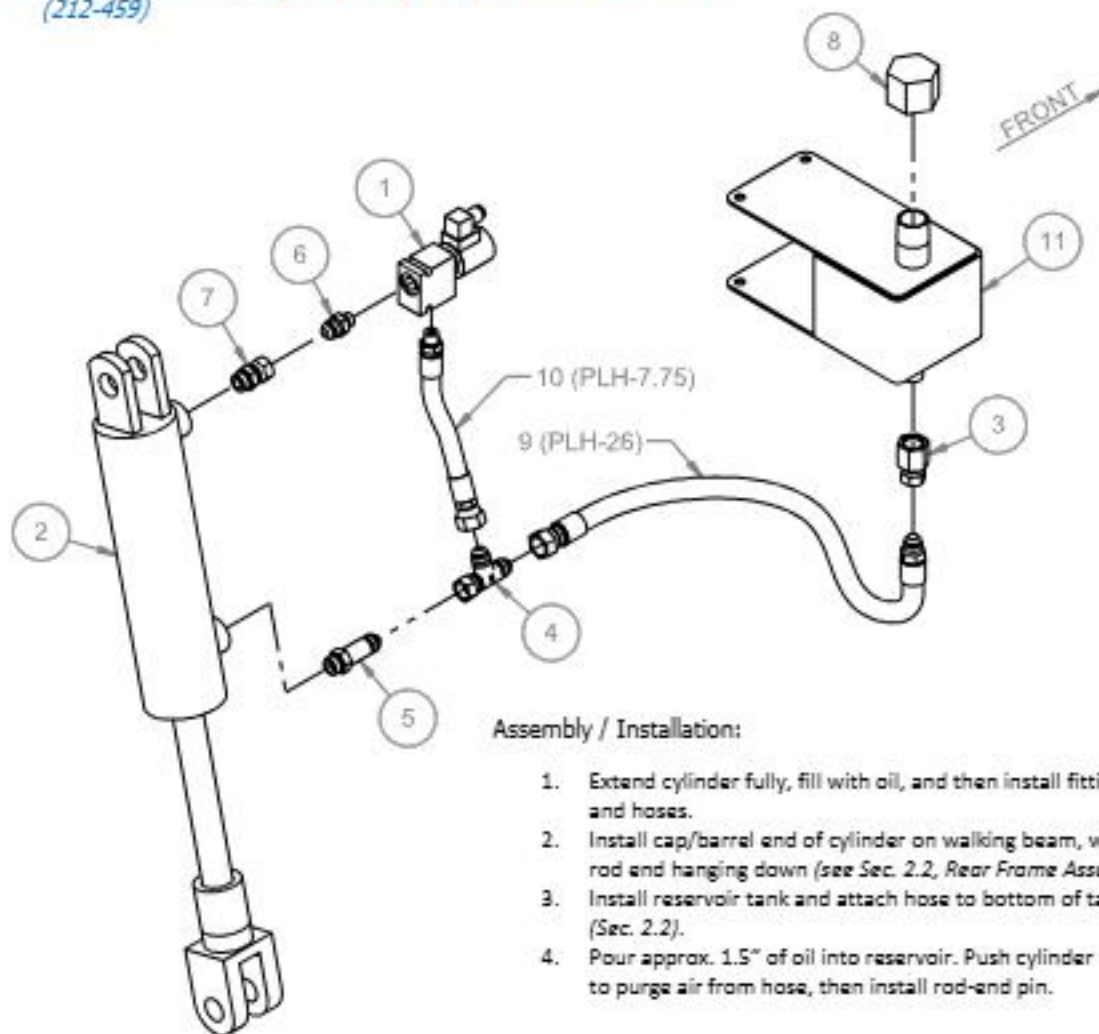
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-020	VALVE, PRV	1
2	212-022	CHECK VALVE, P/N: DLT - EDC305	2
3	212-047	4" LIQUID FILLED SS PRESSURE GAUGE, 0-5000 PSI	1
4	212-159	5" x 40" HYD CYL, RAM P/N: R4508695	4
5	212-160	5" x 40" HYD CYL, RAM P/N: R4508696	2
6	212-302	1/2" F-NPT x #8 F-JIC-SW, ADAPTER	1
7	212-303	1/2" M-NPT x #8 F-JIC-SW, ADAPTER	2
8	212-304	#8 M-JIC x #8 F-JIC-SW, 90	9
9	212-305	#8 JIC RUN TEE, M-F SW-M	6
10	212-306	#8 M-JIC TEE	6
11	212-307	1/2" M-NPT x #8 M-JIC, ADAPTER	4
12	212-311	#8 M-ORB x #8 M-JIC, 90	16
13	212-313	#8 F-ORB x PIONEER END, POPPET STYLE	2
14	212-315	#12 M-ORB x #8 M-JIC, ADAPTER	1
15	212-318	#12 M-ORB x #8 M-JIC, 90 ADAPTER	2
16	212-321	1/2" F-NPT BALL VALVE, 7250 PSI	1
17	212-324	PRINCE STROKE CONTROL VALVE, P/N: PM-SC-10	2
18	212-325	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 1/16" AGL DRLD	4
19	212-327	#8 M-JIC x #8 F-JIC RESTRICTOR BLANK, 9/64" STR DRILLED	4
20	212-331	#8 M-ORB HOLLOW HEX PLUG	2
21	212-332	#8 JIC BRANCH TEE, M-M-F SW	2
22	212-506 (PLH-24)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
23	212-513 (PLH-36)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
24	212-515 (PLH-42)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
25	212-522 (PLH-84J)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
26	212-525 (PLH-93)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
27	212-527 (PLH-100)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
28	212-533 (PLH-139)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
29	212-534 (PLH-145)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	4
30	212-535 (PLH-170)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
31	212-544 (PLH-237)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
32	212-548 (PLH-250)	Hose Assy, 1/2", #8 F-JIC-SW x #8 M-ORB	1
33	212-555 (PLH-306J)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	1
34	212-576 (PLH-131)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
35	212-577 (PLH-160)	Hose Assy, 1/2", #8 F-JIC-SW x #8 F-JIC-SW	2
36	600-1057	HOSE CLAMP KIT, 1/2" HOSE X 4	-
37	600-1061	HOSE CLAMP KIT, 1/2" HOSE X 2	-

6.4.7 60' Wing Frame Hydraulic Circuit – Schematic



Notes

6.5 50'/60' Wing-up Safety Hydraulic Circuit (212-459)

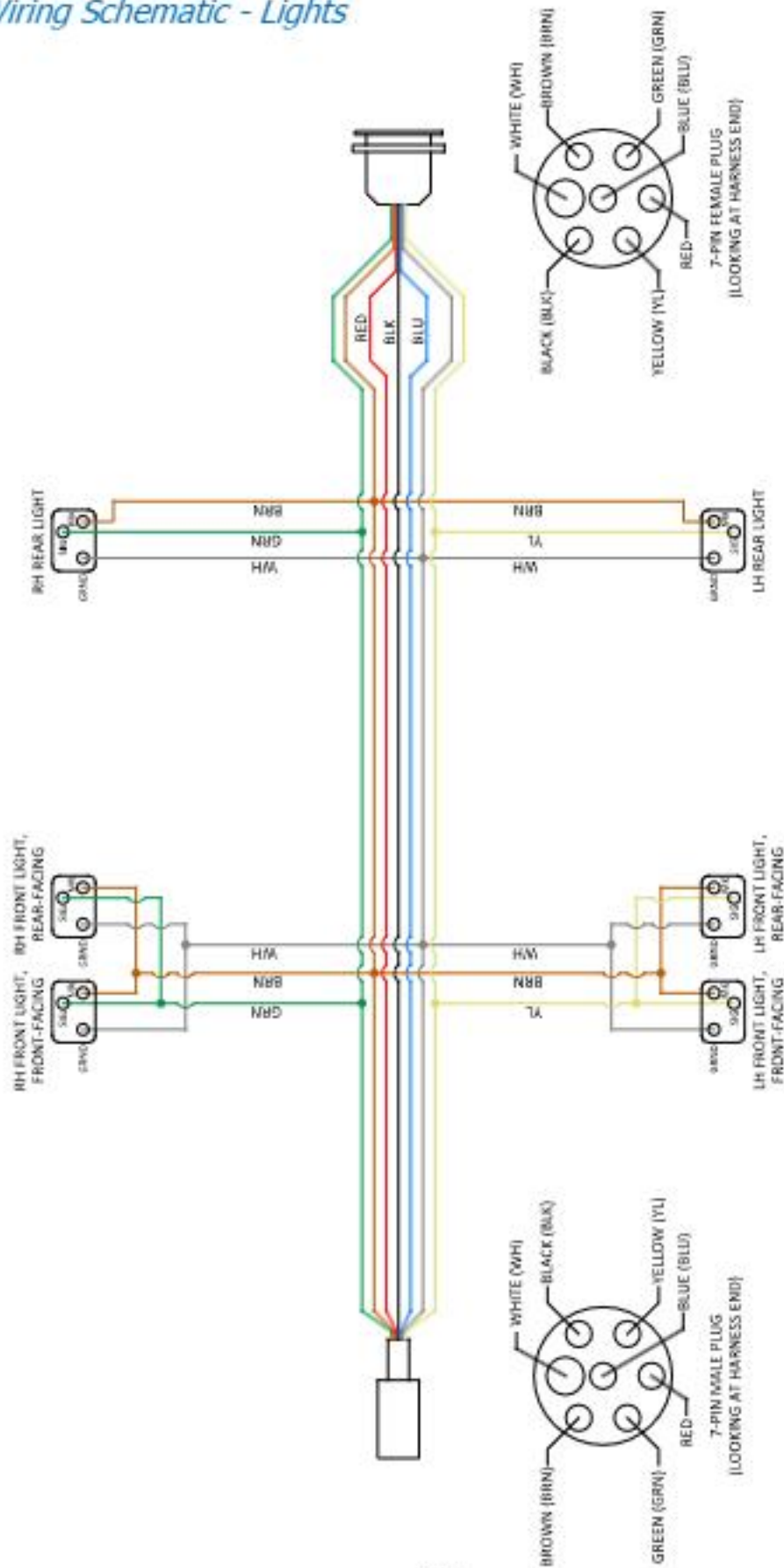


50'/60' Wing-up Safety Hydraulic Circuit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	212-021	VALVE, 12V SOLENOID	1
2	212-161	HYD. CYLINDER, 3" x 8", C/W 2" STROKE CTRL	1
3	212-302	1/2" F-NPT x #8 F-JIC-SW, ADAPTER	1
4	212-305	#8 JIC RUN TEE, M-F SW-M	1
5	212-316	#8 M-ORB x #8 M-JIC, LONG ADAPTER	1
6	212-317	#6 M-ORB x #8 M-JIC, ADAPTER	1
7	212-319	#8 M-ORB x #8 F-JIC-SW, ADAPTER	1
8	212-320	1" F-NPT, CAP	1
9	212-508 (PLH-26)	HOSE ASSY, 1/2", #8 F-JIC-SW x #8 M-JIC	1
10	212-573 (PLH-7.75)	HOSE ASSY, 3/8", #6 M-ORB x #8 F-JIC-SW	1
11	600-1168	OIL TANK	1

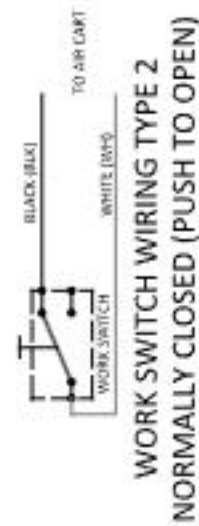
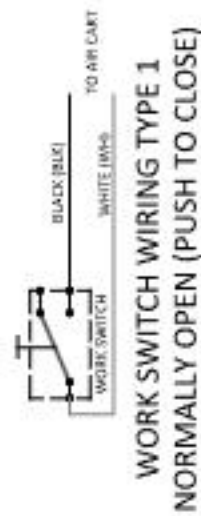
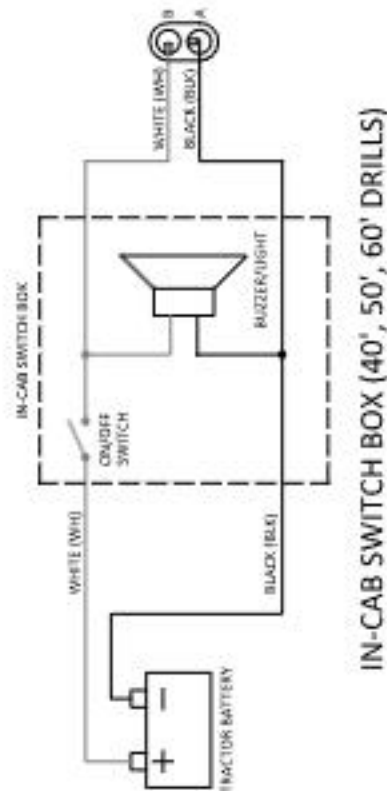
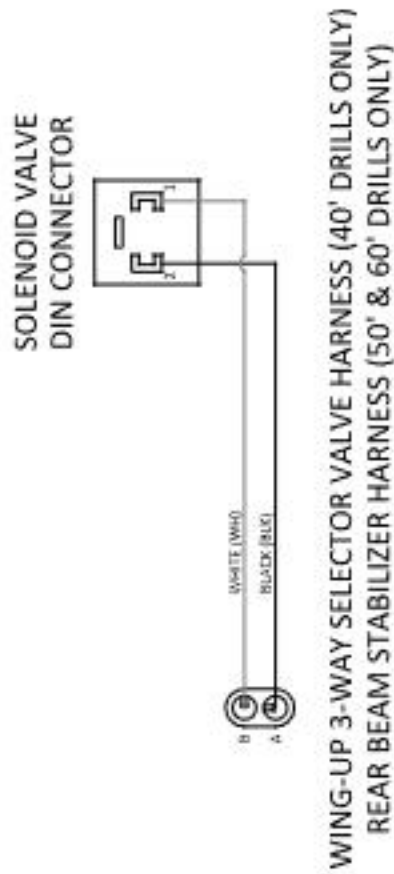
7 Electrical

7.1 Wiring Schematic - Lights



LIGHTING HARNESS, ALL DRILL MODELS

7.2 Wiring Schematic – Switch Box and Work Switch



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