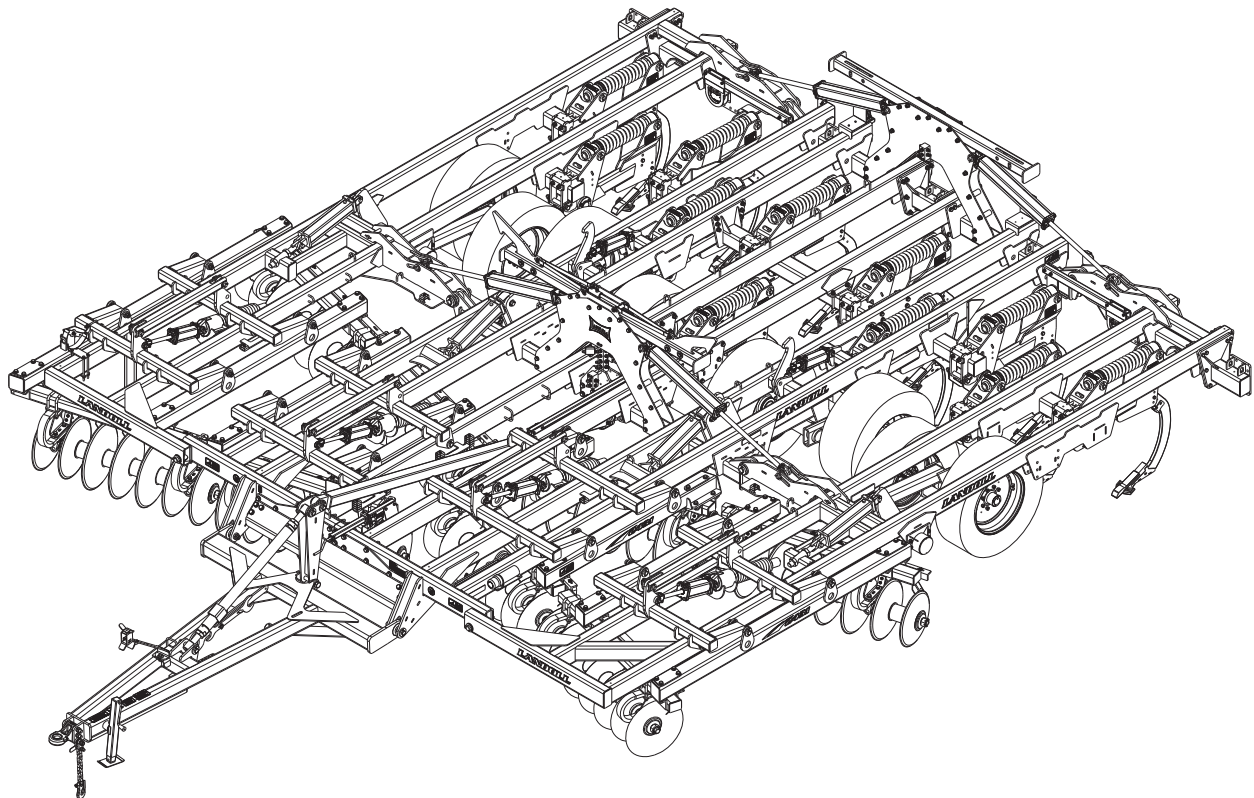




2431

Weatherproofer

Parts Manual



LANDOLL COMPANY, LLC

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ **WWW.LANDOLL.COM**

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone #: 800-423-4320 or 785-562-5381

Fax #: 888-527-3909

Order online: dealer.landoll.com

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame.

SERIAL NUMBER

The serial number is located on the identification plate.

The Following information will help decode the 2431 Weatherproofer serial number

24H240000 = xxmysssss

QR CODE DECAL

The 2400 series QR code decal, may be scanned to link you to the most current manuals, located on the front of the frame [See Figure 1-1](#)

xx	= model series (i.e. 24 for Weatherproofer)
m	= month of manufacture (ex. "H" means October. The letter I is not used.)
yy	= year manufactured (ex. "24" means 2024)
SSSSS	= Sequential number used to track warranty and service information.

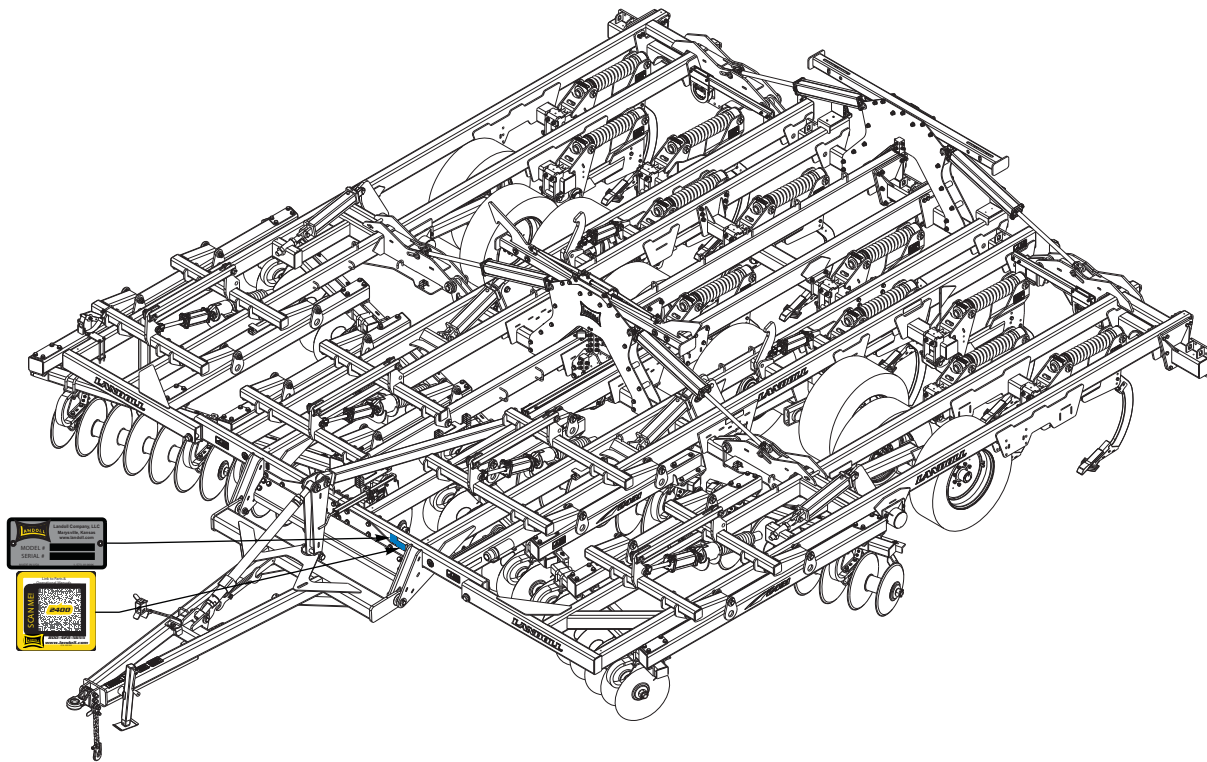


Figure 1-1: Identification Plate and QR Code Decal Location

Manuals for 2431 Weatherproofer

Manual Number	Manual Type
F-1156	Operator's Manual
F-1157	Parts Manual

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10 Glossary

Frame Assemblies

Frame Assembly Center

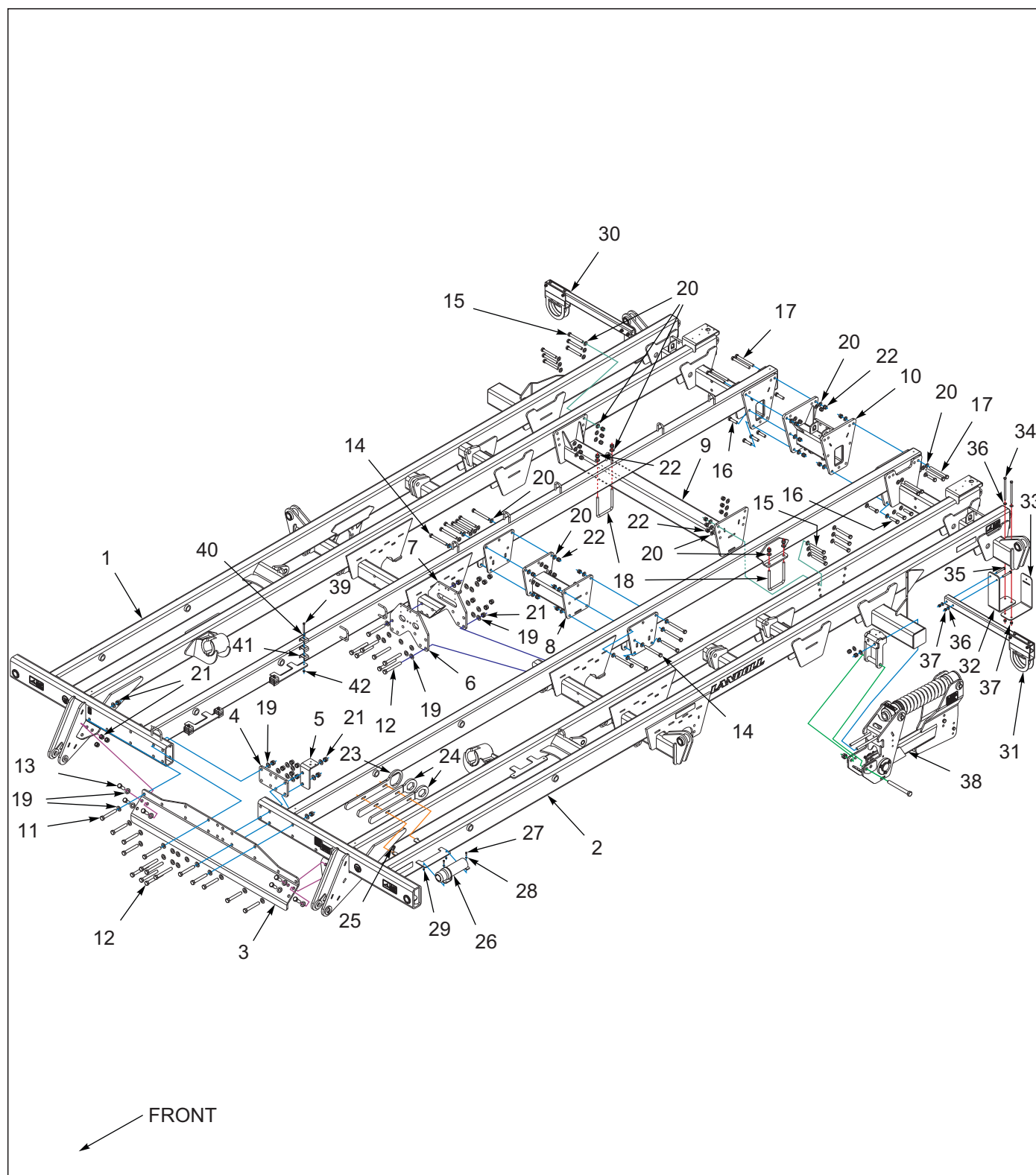


Figure 1-1: Frame Assembly Center

Frame Assembly Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	244392	RT CTR FRAME WLDMT, 2431	1
2	244393	LT CTR FRAME WLDMT, 2431	1
3	244474	PLATE, FRONT C/M	1
4	241948	PLATE, FRAME CONNECTOR	1
5	245227	PLATE, DCV MOUNT	1
6	246786	PLATE, FRM CTR, MANIFOLD MT	1
7	244437	PLATE, FRAME CENTER	1
8	244480	MOUNT, SHANK CTR	1
9	244476	MOUNT, SHANK TUBE	1
10	245224	MOUNT CTR REEL ARM	1
11	184053	SCREW, HX CAP, 7/8-9UNCX6 GR8	8
12	172818	SCREW HX CP 7/8-9UNCX7 GR8	16
13	172813	SCREW HX CP 7/8-9UNCX21/2 GR8	6
14	102209	SCREW HXCP 3/4-10X7 GR8	14
15	172884	SCREW HX CP,3/4-10X6 GR8ZP	12
16	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	8
17	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	8
18	7K723	U-BOLT 3/4-10X6-13/16X7-3/4	2
19	1-861-010032-22	WASHER,FL 7/8 ZP/CD	54
20	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	48
21	1-512-010005-17	NUT,HEX,SELF-LOCKING 7/8-9	30
22	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	46
23	147070	WRENCH, 2100 COULTER GANG	1
24	140533	GANG WRENCH	2
25	70239854	PIN QUICK HITCH	1
26	142753	MANUAL HOLDER	1
27	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
28	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	2
29	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
30	245205	MOUNT, RT LIGHT BKT	1
31	245204	MOUNT, LT LIGHT BKT	1
32	245202	PLATE, LIGHT MOUNT	1
33	246787	PLATE, HOSE MOUNT	1
34	172899	SCREW HX CP 1/2-13X9 GR5	4
35	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	4
36	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	4
37	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
38	243130	CLAMP-SHANK, ASM W/CHROME PIN (SEE PAGE 4-1)	
39	129698	SCREW,HXCP,3/8-16UNCX4-1/2GR5 (USED WITH 3 OR 4 HOSE CLAMPS)	4
39	172882	SCREW HX CP 3/8-16UNCX5 GR5 (USED WITH 5 HOSE CLAMPS)	4
40	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	4
41	2-181-010001	HOSE CLAMP	12
42	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4

Frame Assembly Center Fold

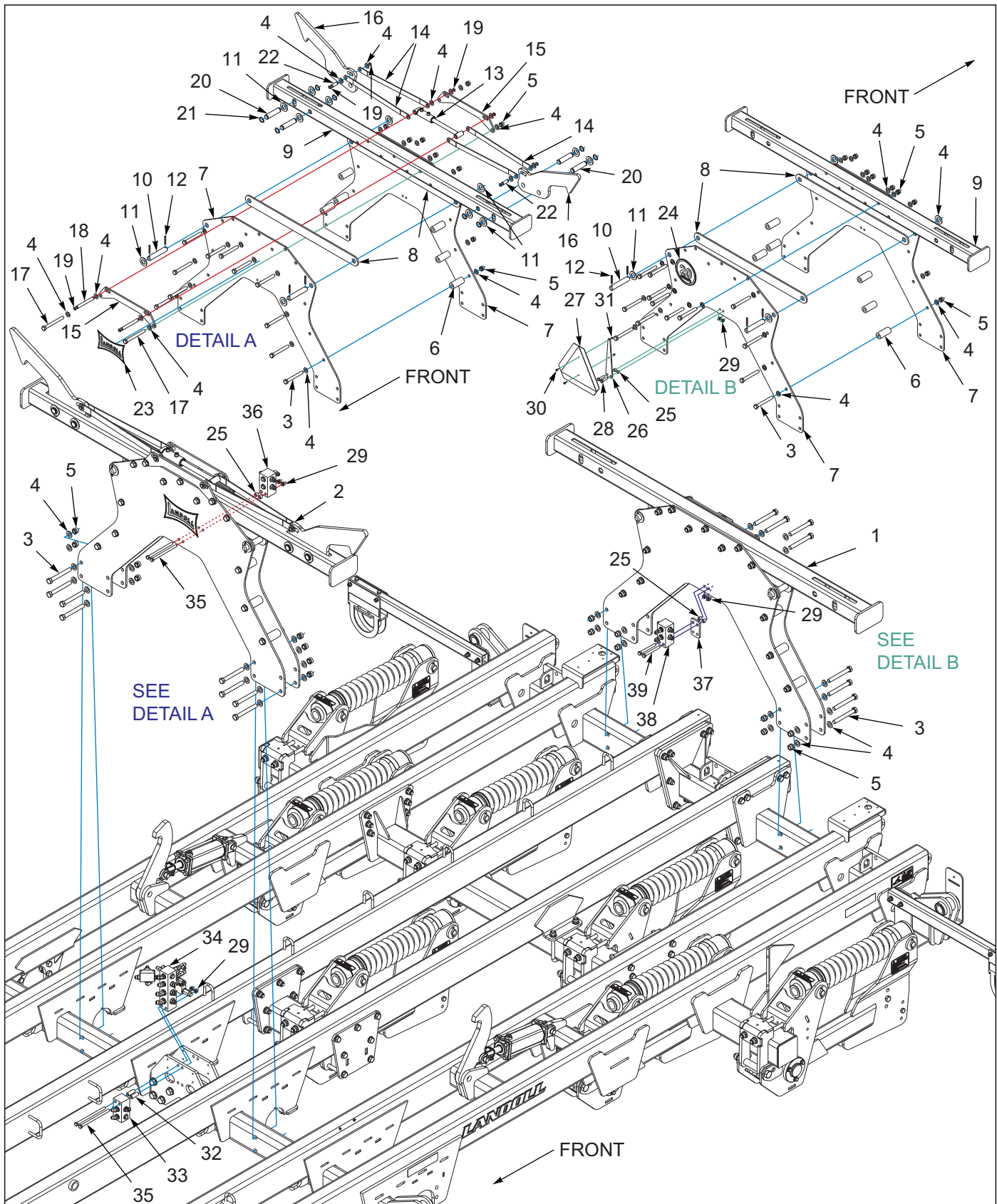


Figure 1-2: Frame Assembly Center Fold

Frame Assembly Center Fold

ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	245240	ASSY, FOLD ANCHOR (INCLUDES ITEMS 3-12, 24)	*	
2	245239	ASSY, FOLD ANCHOR W/LOCKS (INCLUDES ITEMS 3-23)	*	
3	W908409-4	SCREW 3/4-10X6 HEX HD CAP	21	19
4	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	42	50
5	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	21	21
6	179146	TUBE, RD 1-3/4X7/8X4	6	6
7	244440	PLATE, FOLD CYL MOUNT	2	2
8	244439	PLATE, FOLD CYL INNER	2	2
9	244507	WING STABILIZER	1	1
10	170291	PIN, 1-1/4 X 7	2	2
11	116100	WASHER 1-1/4 NAR FL ZP/CD	4	12
12	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	4	4
13	230890	CYLINDER,1-1/2X1-1/2,3000PSI (SEE PAGE 6-13)	--	1
14	244512	PLATE, HOOK CONTROL	--	4
15	244511	PLATE, LOCK CYL GUIDE	--	2
16	244510	PLATE, HOOK	--	2
17	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	--	2
18	245241	PIN, WING LOCK 6-3/8 L	--	2
19	119035	RETAINING RING 3/4	--	8
20	244513	PIN, HOOK 5-1/8" L	--	4
21	120454	RING,RETAINING 1.25 HD	--	8
22	245242	PIN, WING LOCK 2-1/8 L	--	2
23	107484	DECAL, BOW-TIE (YELLOW)	--	1
24	224589	DECAL, SIS 20 MILE/H	1	--
25	155956	BUSHING ANGLE ADJUSTMENT	6	6
26	215433	MOUNT, SMV	1	1
27	70260977	SMV EMBLEM	1	1
28	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	2	2
29	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10	10
30	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5	2	2
31	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2	2
32	172519	TUBE RD .75 X .532 X 1.875 ZP	2	2
33	246795	ASSY, MANIFOLD DISC ADJ 2431	1	1
34	246765	ASSY, MANIFOLD LIFT/FOLD	1	1
35	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	4	4
36	246763	ASSY, MANIFOLD FRONT FOLD	1	1
37	246788	PLATE, HYD MANIFOLD MNT	1	1
38	246764	ASSY, MANIFOLD REAR FOLD	1	1
39	1-654-010055-14	SCREW,HX CP,1/2-13UNCX4-1/2G5	2	2

Frame Assembly Center Lift

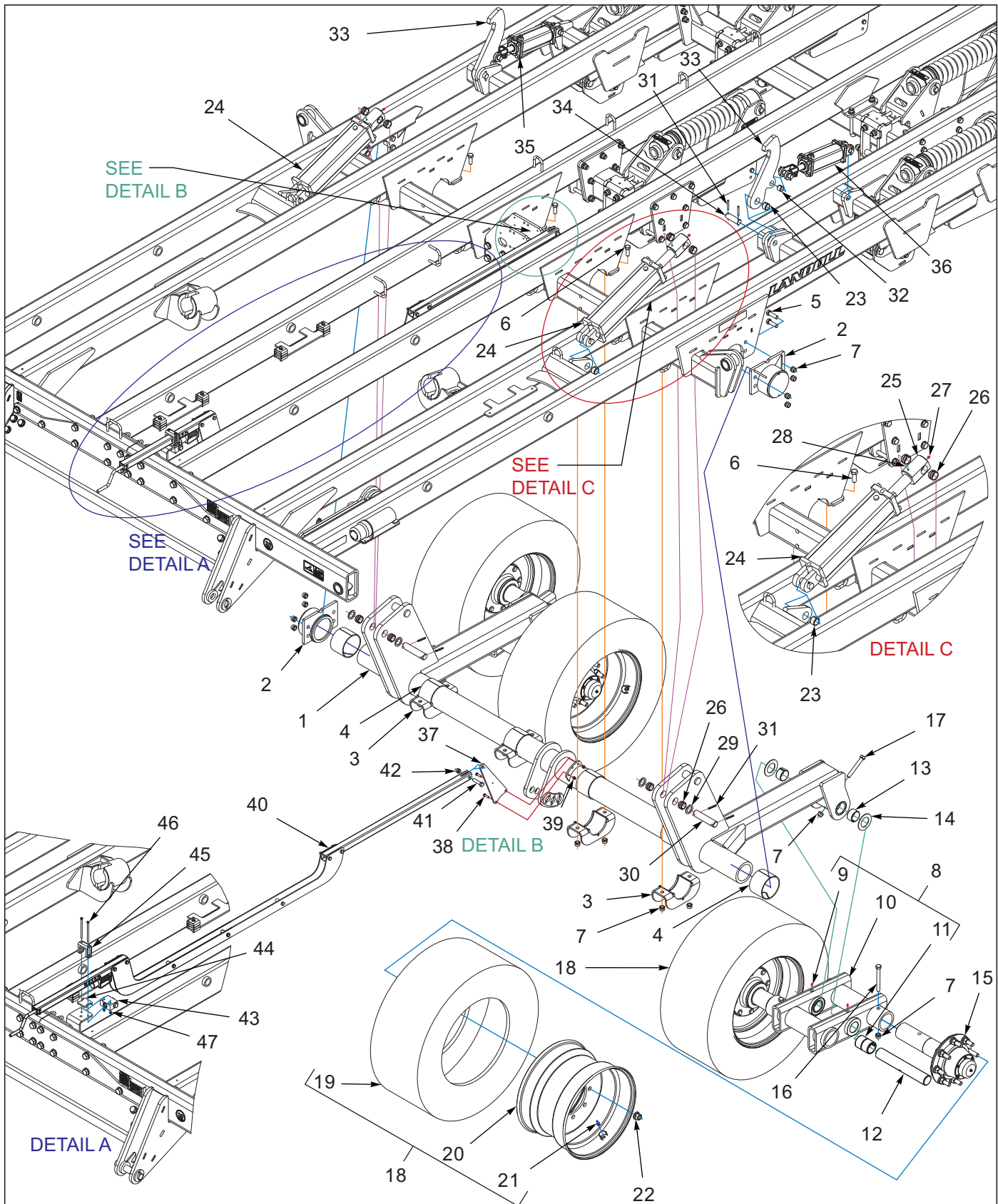


Figure 1-3: Frame Assembly Center Lift

Frame Assembly Center Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	244420	LIFT, 2431-11/13 WLDMT	1
2	226570	BEARING CAP, LIFT, HD WLDMT	2
3	141234	WLDMT, BEARING CAP LIFT	4
4	140519	BEARING, UHMW 4IN	6
5	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	8
6	1-654-010061-05	SCREW,HHCS,3/4-10UNCX2,GR5,ZP	8
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	22
8	167553	WALKING BEAM ASSY - 4"	2
9	171024	FITTING, GREASE 5/16-24 STR	8
10	163696	WALKING TANDEM 4" SP WLDMT	2
11	165286	BUSHING SPRING 3X2-1/2X4	4
12	164501	SPINDLE, WALKING BEAM	2
13	198351	CONNEX, 2-3/4 X 2-1/2 X 1-1/2L	4
14	164563	WASHER, THRUST 2-1/2	4
15	191974	HUB/SPINDLE ASSY, 4" W/ZERK (SEE PAGE 1-11)	4
16	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	4
17	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	2
18	244550	TIRE & WHL ASSY, 445/50R 22.5	4
19	244549	TIRE, VF 455/50R22.5	4
20	244548	WHEEL, 8 BOLT, 22.5 X 14	4
21	TR575	VALVE STEM TUBELESS TIRE	4
22	179933	NUT, HEX M22X1.5	32
23	2-150-010174	BUSHING,1-5/8X1-1/4X1	4
24	146824	CYLINDER, 4-1/2 X16, REPHASE (SEE PAGE 6-2)	2
25	165238	BLOCK, CYLINDER ROD	2
26	2-150-010218	BUSHING,LEVELING LINKAGE2220F	8
27	1-298-010001-1	ZERK FITTING 1/4 SAE	2
28	122709	SCREW,SET,HXSKTCPPT 3/8-16X1/2	2
29	170258	BUSHING, MACHINE 1-1/2 X 10 GA	4
30	165256	PIN, LIFT	2
31	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	8
32	2-150-010008	BUSHING 1-1/4ODX1IDX1 STEEL	2
33	244426	LOCK, TRANSPORT	2
34	147755	CLEVIS PIN,Ø1-1/4 HARD,PRINCE	2
35	145204	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGE 6-9 OR 6-10)	1
36	145203	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGE 6-7 OR 6-8)	1
37	169727	PLATE, DEPTH STOP TALL	1
38	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
39	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
40	245215	ASSY, DEPTH STOP 2431 (SEE PAGE 1-15)	1
41	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	1
42	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	1
43	239435	VALVE, LIMIT .156 REST	1
44	165257	PAD, SLIDE	1
45	165265	GUIDE, DEPTH STOP	1
46	171556	SCREW,HEX CP,5/16-18UNCX5-1/2	2
47	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2

Wing Frame Assembly 2431-11/13

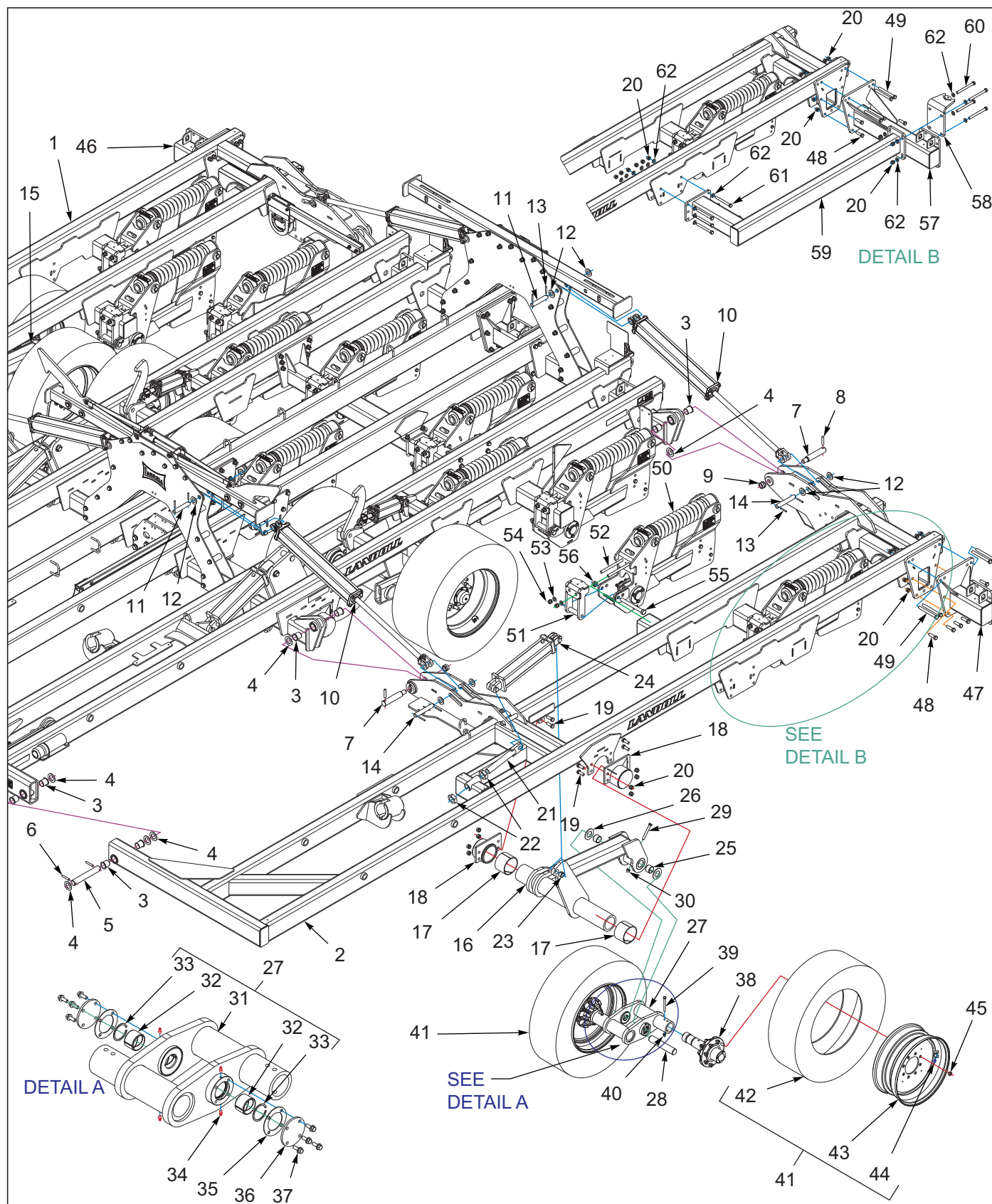


Figure 1-4: Wing Frame Assembly 2431-11/13

Wing Frame Assembly 2431-11/13

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	244394	RT WING FRAME WLDMT, 2431	1
2	244395	LT WING FRAME WLDMT, 2431	1
3	164533	BEARING, FLANGE 1-3/4	16
4	164539	WASHER THRUST 1-3/4	12
5	244543	PIN, 1-3/4 X 11-1/2	2
6	5D979	ROLL PIN 1/2 X 3	4
7	228228	PIN, HINGE	4
8	148382	PIN, WALKING BEAM SPINDLE	4
9	101385	NUT,HEX SLFLKG,1-1/4-7 GRB	4
10	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-11)	4
11	170291	PIN, 1-1/4 X 7	4
12	116100	WASHER 1-1/4 NAR FL ZP/CD	16
13	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	16
14	180385	PIN, 1-1/4X8-1/4	4
15	244430	LIFT, WING RIGHT-11 (SHOWN)	1
15	244435	LIFT, WING RIGHT-13 (NOT SHOWN)	1
16	244431	LIFT, WING LEFT-11 (SHOWN)	1
16	244436	LIFT, WING LEFT-13 (NOT SHOWN)	1
17	140519	BEARING, UHMW 4IN	4
18	141209	BEARING CAP, LIFT WLDMT	4
19	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	16
20	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	88
21	164546	ROD, CYLINDER ANCHOR 1-1/4	2
22	155716	NUT HX JAM 1-3/4-5UNC GR2	4
23	2-150-010174	BUSHING,1-5/8X1-1/4X1	2
24	146825	CYLINDER, 4X16, REPHASE (SEE PAGE 6-2)	2
25	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
26	171070	WASHER, THRUST 2	4
27	217591	ASSY, WALKER 3" (INCLUDES ITEMS 31-34)	2
28	217593	SPINDLE, WALK BEAM 2"	2
29	1-654-010059-15	SCREW,HEX CAP,5/8-11UNCX5 GR5	2
30	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
31	217547	WALKING TANDEM-3" SP WLDMT	2
32	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
33	217559	SNAP RING, INTERNAL-2-1/4	4
34	171024	FITTING, GREASE 5/16-24 STR	8
35	217627	GASKET, ENDCAP	4
36	217626	ENDCAP, WALKER	4
37	219795	SCREW, HEX FLANGE HD, 3/8 X 1	16
38	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 1-13)	4
39	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
40	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
41	244547	ALLIANCE TIRE&WHL 295/75R 22.5	4
42	244546	ALLIANCE TIRE VF295/75R 22.5	4
43	244545	WHEEL, 8 BOLT 0.00" OFFSET	4
44	TR575	VALVE STEM TUBELESS TIRE	4
45	102600	NUT,WHEEL BOLT, 5/8	32
46	240488	EXT, REEL RIGHT (2431-11)	1
47	240489	EXT, REEL LEFT (2431-11)	1

Wing Frame Assembly 2431-11/13

ITEM	PART NUMBER	DESCRIPTION	QTY.
48	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	18
49	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	16
50	243130	CLAMP-SHANK, ASM W/CHROME PIN (SEE PAGE 4-1)	4
51	221412	GATE-CLAMP WLDMT	4
52	239516	SCREW, HXCP 3/4-16UNFX10 GR8	8
53	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	8
54	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	8
55	172581	SCREW HEX CAP 1-8UNCX9.5 GR8	4
56	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	4
57	240491	EXT, REEL LEFT (2431-13) (SHOWN)	1
57	240490	EXT, REEL RIGHT (2431-13) (NOT SHOWN)	1
58	240394	PLATE, EXT BOLT ON (2431-13)	2
59	246876	MOUNT, SHANK EXT-13 (2431-13)	2
60	162249	SCREW, HX CP,3/4-10UNCX8 GR8 (2431-13)	8
61	102209	SCREW HXCP 3/4-10X7 GR8 (2431-13)	8
62	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD (2431-13)	28

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Hub and Spindle Assembly 191974

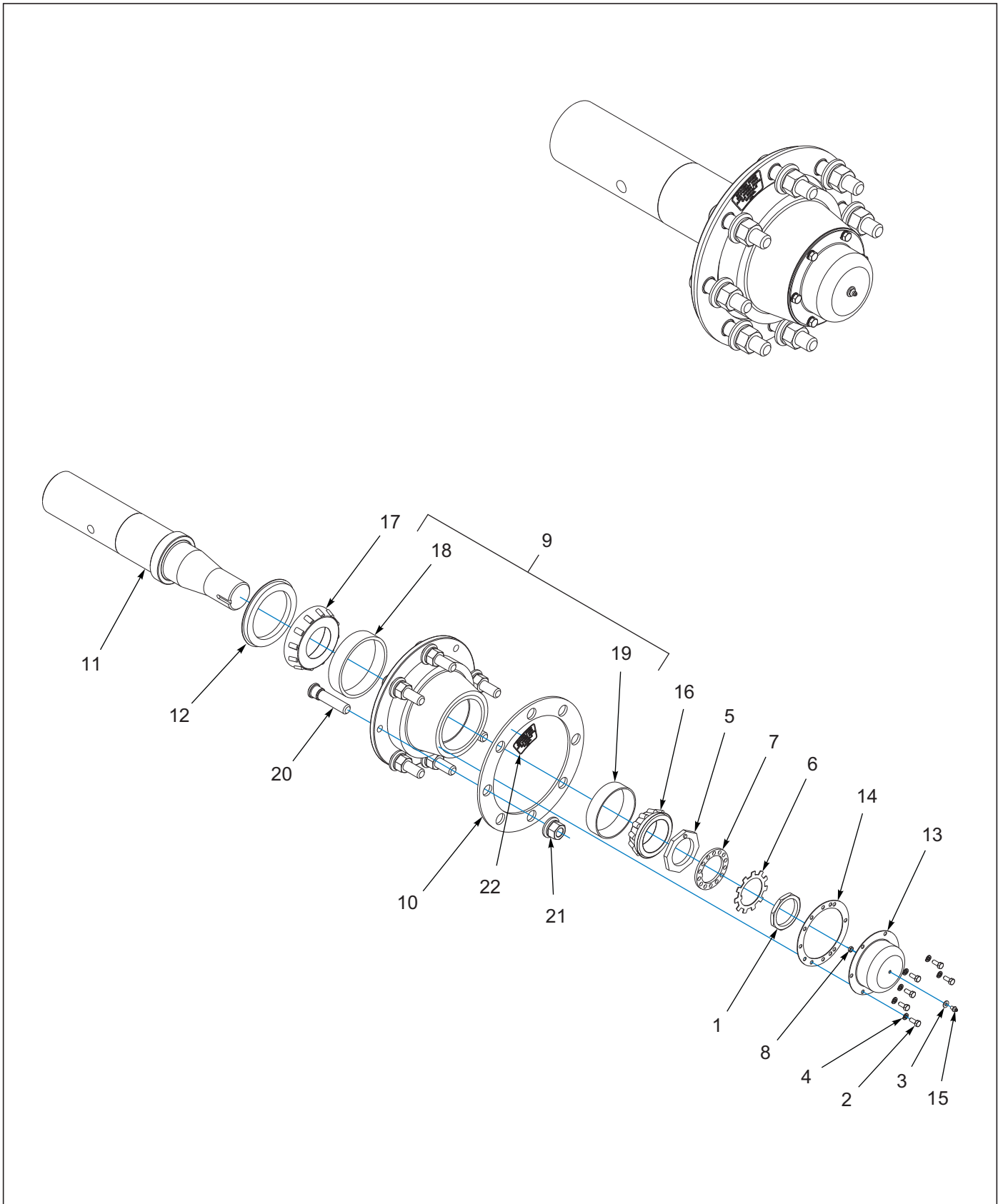


Figure 1-5: Hub and Spindle Assembly 191974

Hub and Spindle Assembly 191974

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	191974	HUB/SPINDLE ASSY, 4" W/ZERK	
1	006-115-00	NUT OUTER, SPINDLE, DEXTER	1
2	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	6
3	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	1
4	1-861-010034-10	WASHER,LKG 5/16	6
5	103103-002	INNER SPIN NUT	1
6	105106	STAR L/W	1
7	105107	LOCK WASHER	1
8	1404013	NUT JAM HEX HD GR 5 1/4-28	1
9	164557	HUB W/CUPS, 8 BOLT (INCL. ITEMS 18-21)	1
10	167586	SPACER, WHEEL	1
11	167649	ASSY, 4" SPINDLE-SLEEVE	1
12	184769	SEAL, PURGABLE 6 OD X 4-5/8 ID	1
13	191976	HUBCAP W/ 1/4 HOLE	1
14	3067	GASKET HUB	1
15	5013	ZERK, FITTING 1/4-28SAEX11/16	1
16	HM212049	OUTER BRG A19S	1
17	HM218248	INNER BEARING	1
18	HM218210	BEARING CUP,INNER-DEXTERD225K	1
19	HM212011	OUTER CUP	1
20	101162	STUD - DISC PILOT HOLE WHL	8
21	179933	NUT, HEX M22X1.5	8

Hub and Spindle Assembly 223440

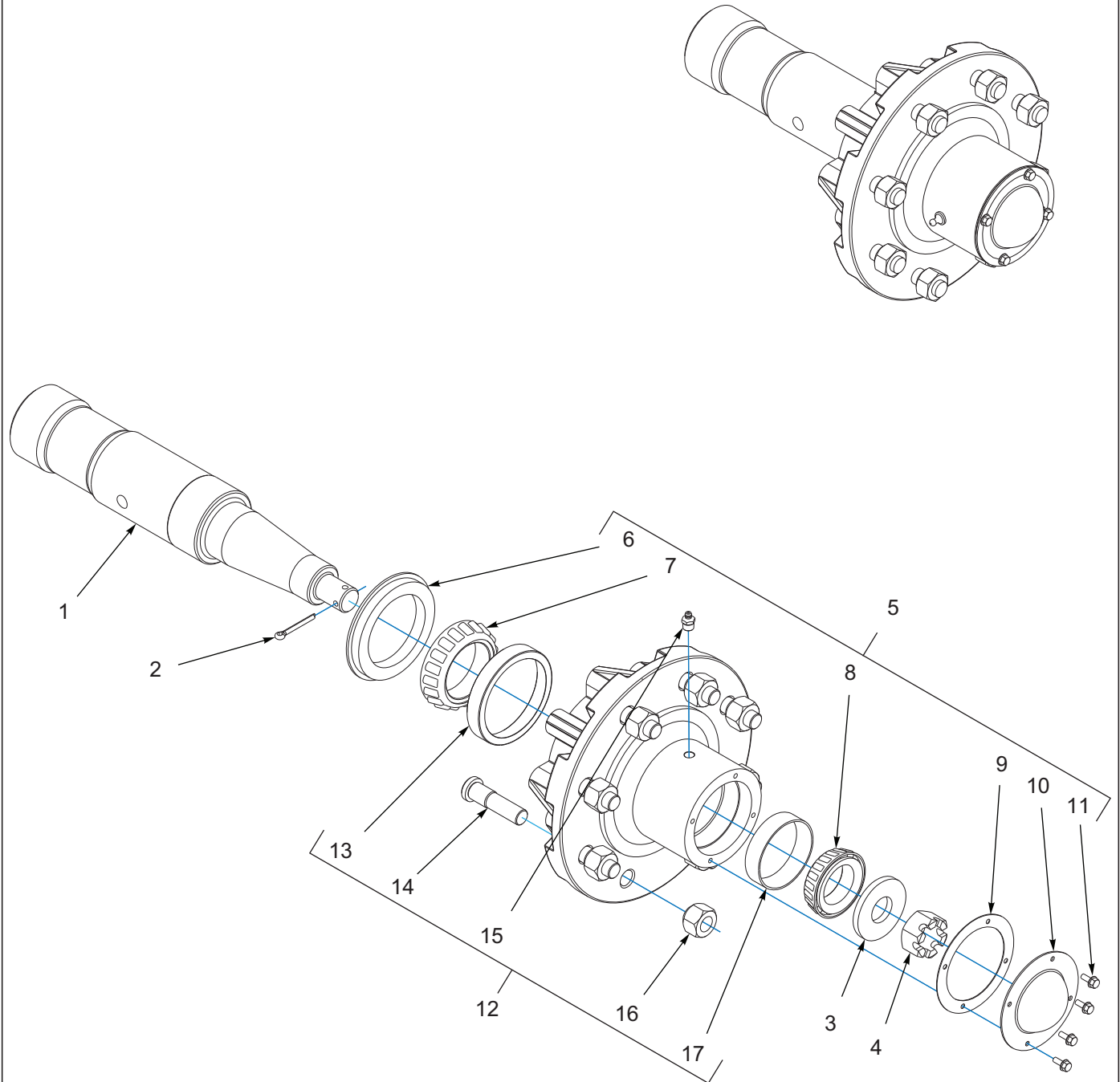


Figure 1-6: Hub and Spindle Assembly 223440

Hub and Spindle Assembly 223440

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	223440	ASSY, 8 BOLT HUB & SPINDLE	
1	156973	SPINDLE 3 X 16-1/2	1
2	1-557-010362-51	PIN, COTTER 3/16X1-1/2	1
3	1-861-010005	WASHER, SPINDLE 1	1
4	1-516-010001-20	NUT, HX SLOT 1-14	1
5	168859	HUB ASSY, EIGHT BOLT (INCLUDES ITEMS 6-12) (SERVICE KIT ONLY)	
6	193089	SEAL, PURGABLE 4 OD X 3 ID	1
7	156979	CONE BEARING - 387AS	1
8	102498	BEARING CONE, OUTER, 1.625	1
9	223439	GASKET, DUST CAP	1
10	223437	DUST CAP, BOLT ON	1
11	223438	SCREW, 10-32X1/2 HEX FLANGE	4
12	223435	HUB ASSY W/ CUPS, GASKET, CAP (INCLUDES ITEMS 13-17)	1
13	111962	OUTER BEARING CUP L20HD#382A	1
14	4001060	HUB 75-8 BOLTS 5/8-18 STUD	8
15	5000	ZERK FITTING 1/8NPT	1
16	102600	NUT, WHEEL BOLT, 5/8	8
17	102604	BEARING CUP, OUTER	1

Depth Stop Assembly

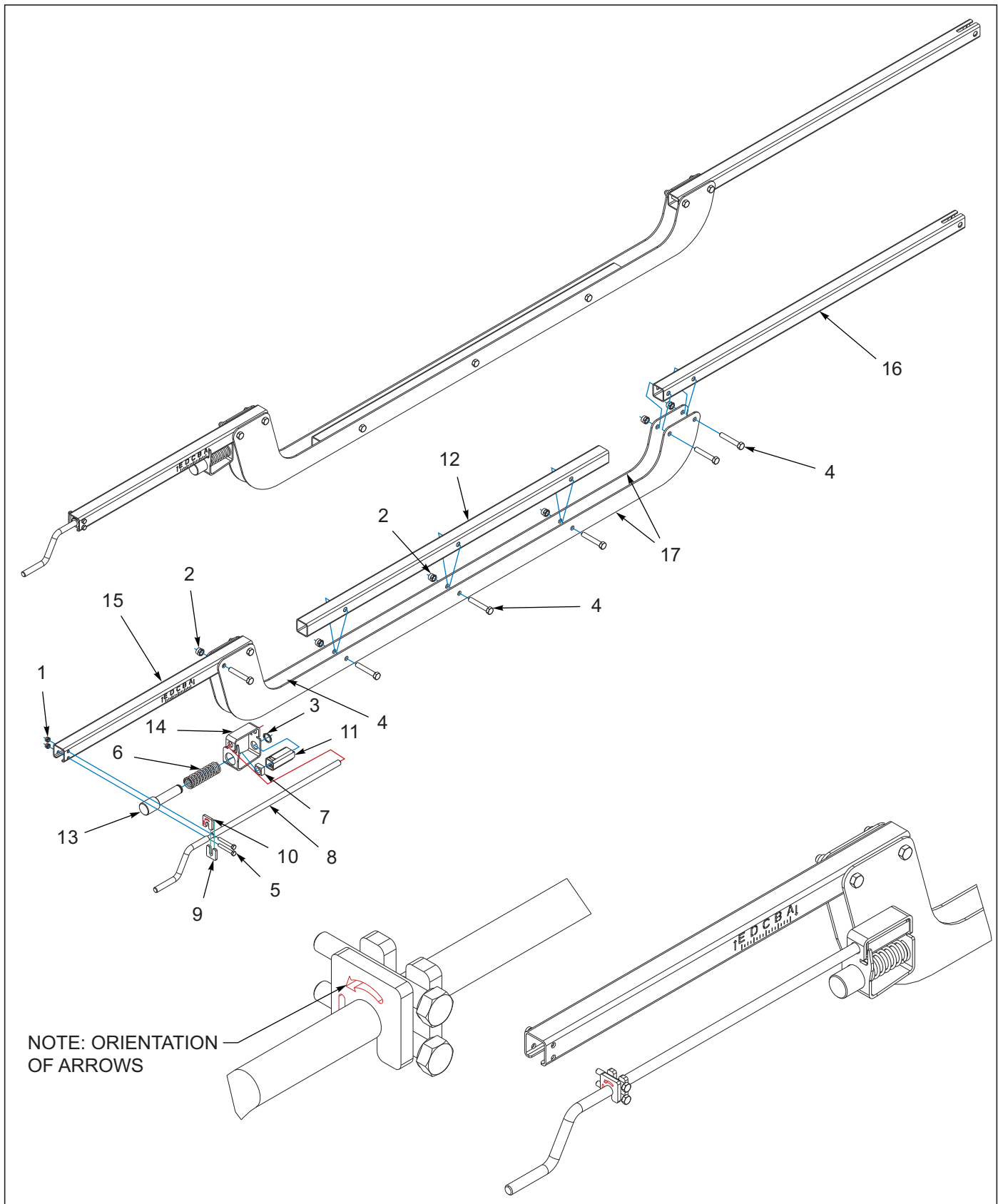


Figure 1-7: Depth Stop Assembly 2431

Depth Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	245215	ASSY, DEPTH STOP 2431	
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
3	1-630-010021-03	RING, RETAINING 1.0 HD	1
4	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	7
5	108628	SCREW HX CP 5/16-18UNCX2-1/4	2
6	122917	SPRING COMPRESSION,4-1/2 MONO	1
7	144048	NUT, SQ 5/8-11 GR5	1
8	165258	HANDLE, DEPTH STOP	1
9	165259	STOP, HANDLE LONG	1
10	165260	STOP, HANDLE SHORT	1
11	166717	SQ TUBE, FLOATING	1
12	246803	SQ TUBE, DEPTH STOP-CENTER	1
13	174708	PIN, DEPTH STOP	1
14	174709	SQ TUBE, DEPTH STOP	1
15	245216	SQ TUBE, DEPTH STOP-FRONT	1
16	245217	SQ TUBE, DEPTH STOP-REAR	1
17	245218	PLATE, DEPTH CONTROL	2

Hitch Assemblies

Hitch Assembly

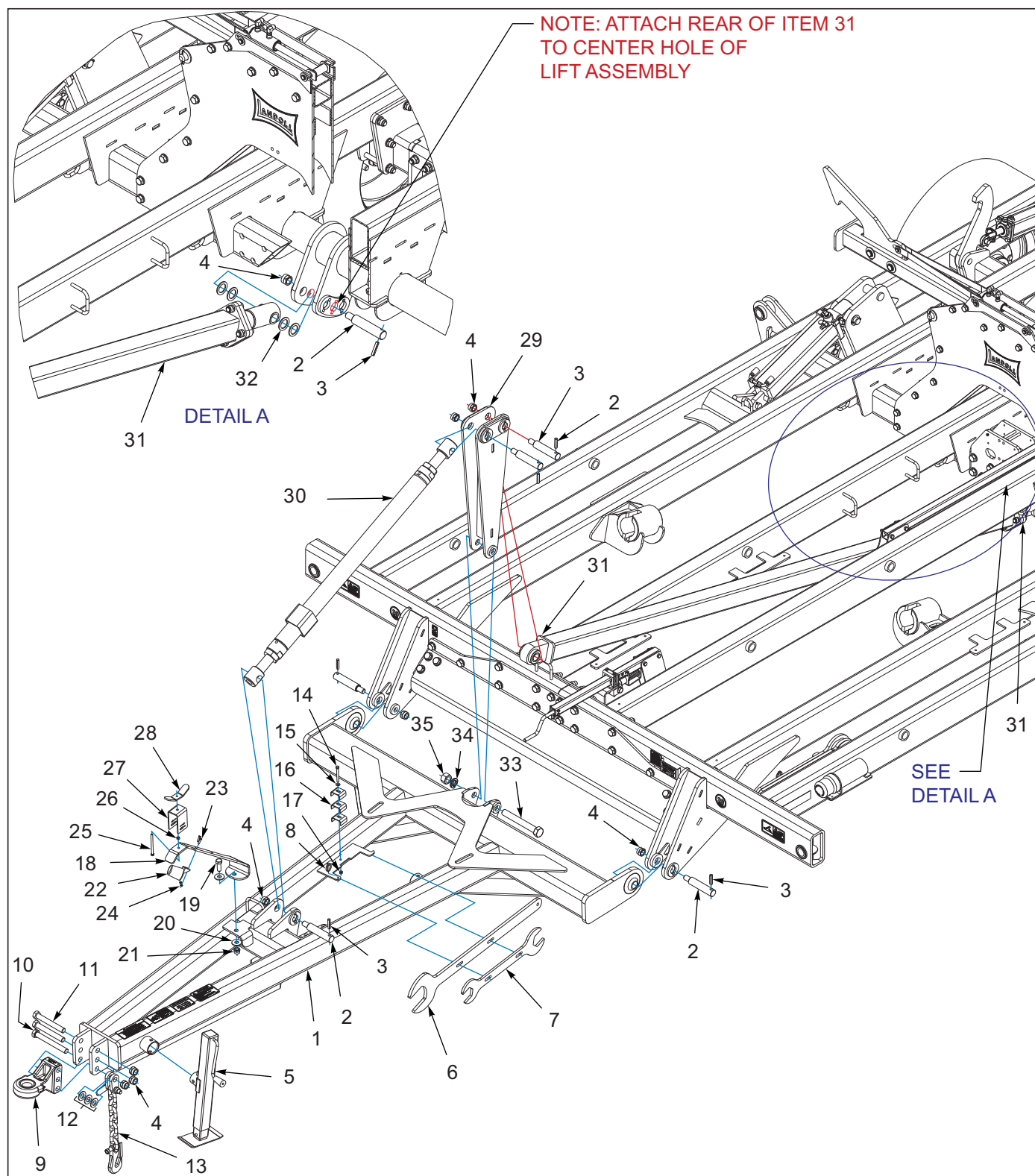


Figure 2-1: Hitch Assembly

Hitch Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	244530	HITCH ASSY, CAT IV 2431	
--	244531	HITCH ASSY, CAT V 2431	
1	244532	HITCH, 2431 WLDMT	1
2	144493	PIN, HITCH	6
3	144115	PIN, GROOVED ALLOY 1/2X2-1/4	6
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	9
5	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-6)	1
6	179763	WRENCH, ADJUSTMENT	1
7	174404	WRENCH, ADJUSTMENT	1
8	70239854	PIN QUICK HITCH	1
9	189451	HITCH, BALL CAT IV 3-HOLE (USED WITH 244530) (SEE PAGE 2-5)	1
9	177032	HITCH, BALL CAT V (USED WITH 244531) (SEE PAGE 2-5)	1
10	1-654-010125-22	SCREW HX CP 1-8UNCX8-1/2G8ZP	1
11	153696	BOLT, HITCH CLEVIS	2
12	1-861-010032-24	WASHER FL 1IN NARROW ZP	3
13	193183	SAFETY CHAIN 61,000 LBS	1
14	129698	SCREW,HXCP,3/8-16UNCX4-1/2GR5 (USED WITH 3 OR 4 HOSE CLAMPS)	1
14	172882	SCREW HX CP 3/8-16UNCX5 GR5 (USED WITH 5 HOSE CLAMPS)	
15	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	1
16	2-181-010001	HOSE CLAMP	3
17	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
18	228247	BRACKET, HOSE HOLDER	1
19	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	1
20	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2
21	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	1
22	2-368-010287	HARNESS, STOR-A-WAY	1
23	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
24	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
25	196754	SCREW,HH 3/8-16X5,GR5,FUL THRD	1
26	1-512-010007-07	NUT, HEX 3/8-16 GR2 ZP	1
27	177398	CLAMP, HOSE HOLDER, LONG	1
28	141249	WING NUT, HOSE HOLDER	1
29	184780	TOWER, LEVELER-30" WLDMT	1
30	228224	RADIUS ASSY, 2 THRD, 1-1/2 PIN (SEE PAGE 2-3)	1
31	244540	LEVELER ASSY 150 L (SEE PAGE 2-4)	1
32	170258	BUSHING, MACHINE 1-1/2 X 10 GA	4
33	100808	SCREW CP HXHD 1-1/4-7X9-1/2G8	1
34	100825	WASHER, LKG, HLCL SPR 1-1/4	1
35	1-512-010007-16	NUT,HEX 1-1/4-7 GR2 ZP	1

Radius Assembly

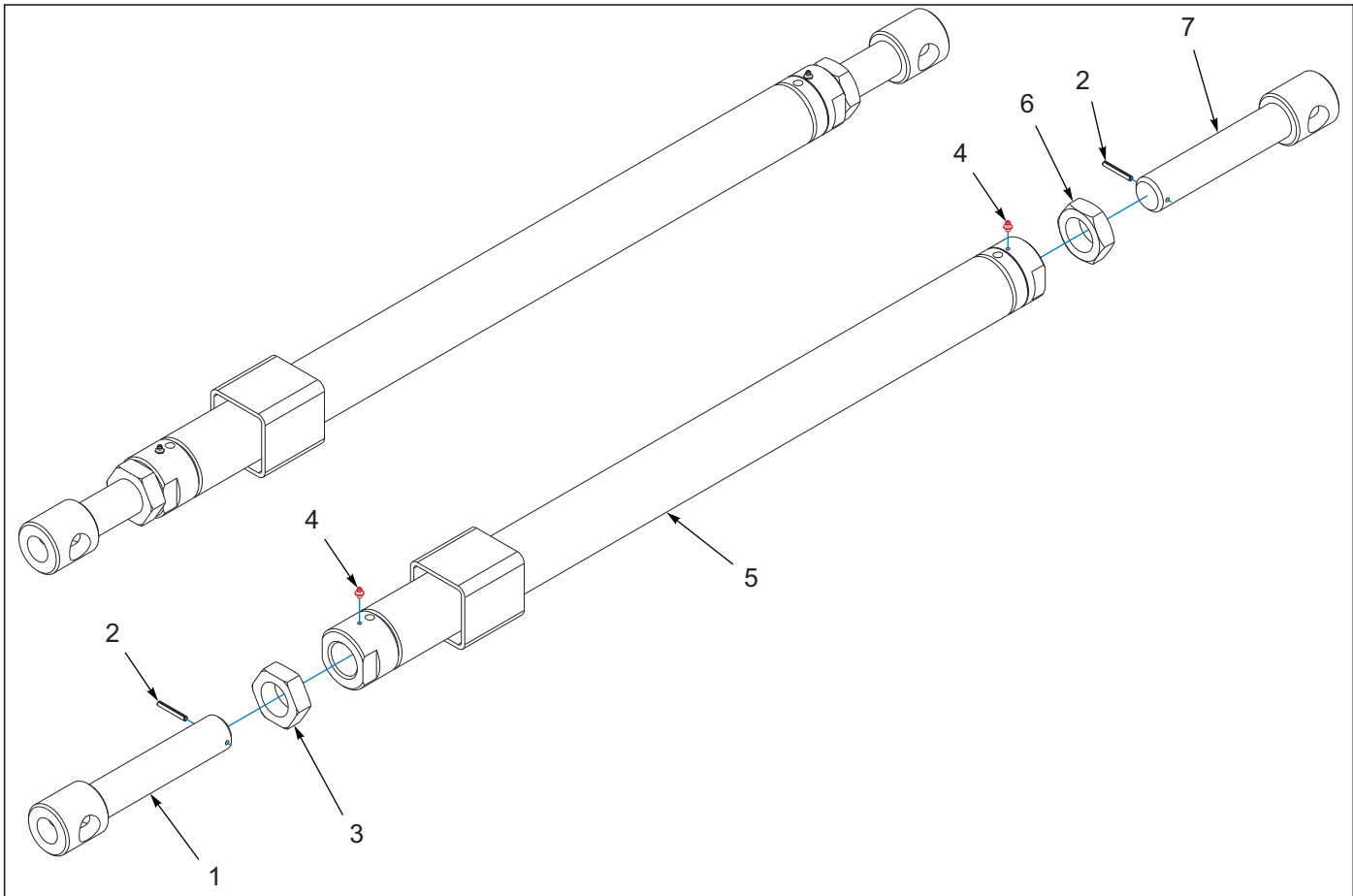


Figure 2-2: Radius Assembly

Radius Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	228224	RADIUS ASSY, 2 THRD, 1-1/2 PIN	
1	187181	RH WLDMT,RADROD-2THRD,1-1/2PIN	1
2	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
3	137931	NUT 2-12, HEX JAM, UNF GR 5	1
4	1-298-010001-1	ZERK FITTING 1/4 SAE	2
5	228225	HITCH, RADIUS ROD 2 WLDMT	1
6	139139	NUT 2-12, HEX JAM,LH THRD GR5	1
7	187182	LH WLDMT,RADROD-2THRD,1-1/2PIN	1

Leveler Assembly

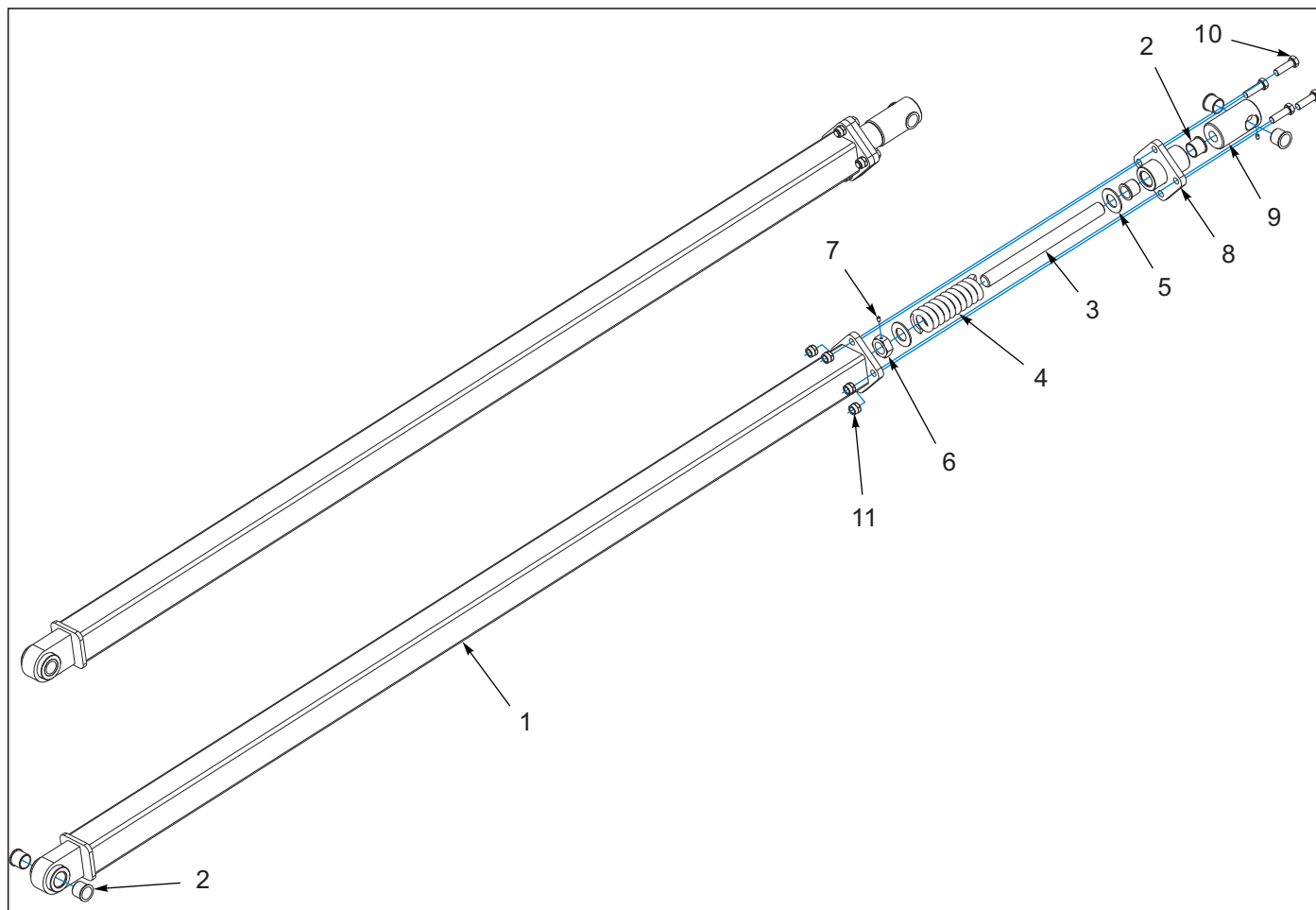


Figure 2-3: Leveler Assembly

Leveler Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	244540	LEVELER ASSY 150 L	
1	244541	LEVELER TUBE, 2431	1
2	140599	BEARING, FLANGE 1-1/2"	6
3	234844	ROD, LEVELER SCREW	1
4	140649	SPRING, LEVELER, BLUE	1
5	1-861-010032-32	WASHER FLAT ZP/CD 1-1/2	2
6	140610	NUT,HEX JAM W/O SET SCREW	1
7	122709	SCREW,SET,HXSKTCPPT 3/8-16X1/2	2
8	234842	SLIDE, LEVELER WLDMT	1
9	149582	PIVOT BLOCK, LEVELER TUBE	1
10	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	4
11	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4

Hitch & Ball Assemblies

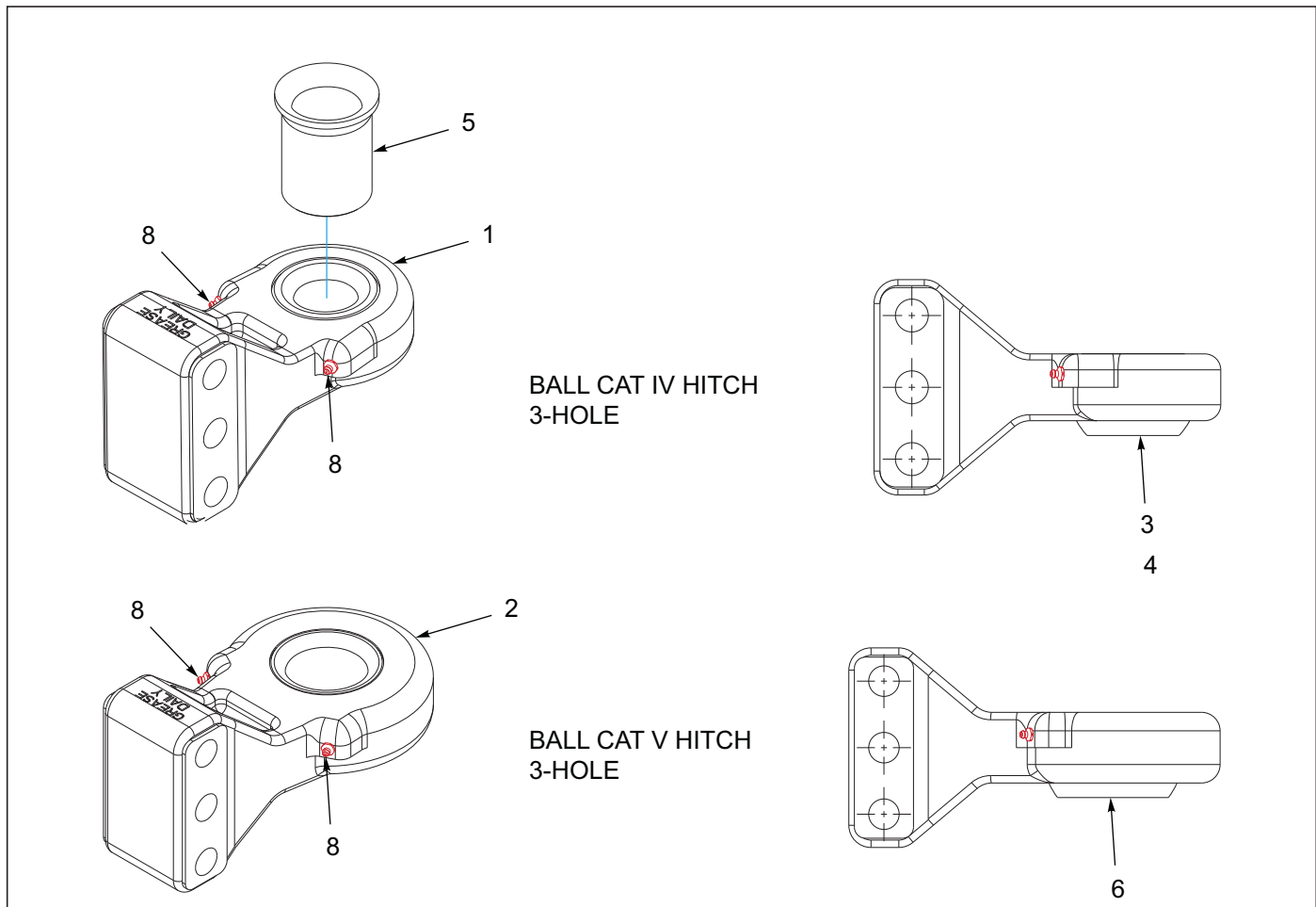


Figure 2-4: Hitch & Ball Assemblies

Hitch & Ball Assemblies

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	189451	HITCH, BALL CAT IV 3-HOLE	1
2	177032	HITCH, BALL CAT V	1
3	189454	BUSHING, SPHERICAL 2 ID (STANDARD CAT IV)	1
4	189453	BUSHING, SPHERICAL 1-1/2 ID (OPTIONAL CAT IV)	1
5	189455	BUSHING, FLANGED 2OD X 1-1/2ID (OPTIONAL CAT IV)	1
6	189468	BUSHING, SPHERICAL 2-3/4 ID (STANDARD CAT V)	1
7	189467	BUSHING, SPHERICAL 2 ID (OPTIONAL CAT V)	1
8	1-298-010001-1	ZERK FITTING 1/4 SAE	1

7,000 lb. Sidewind Jack Assembly

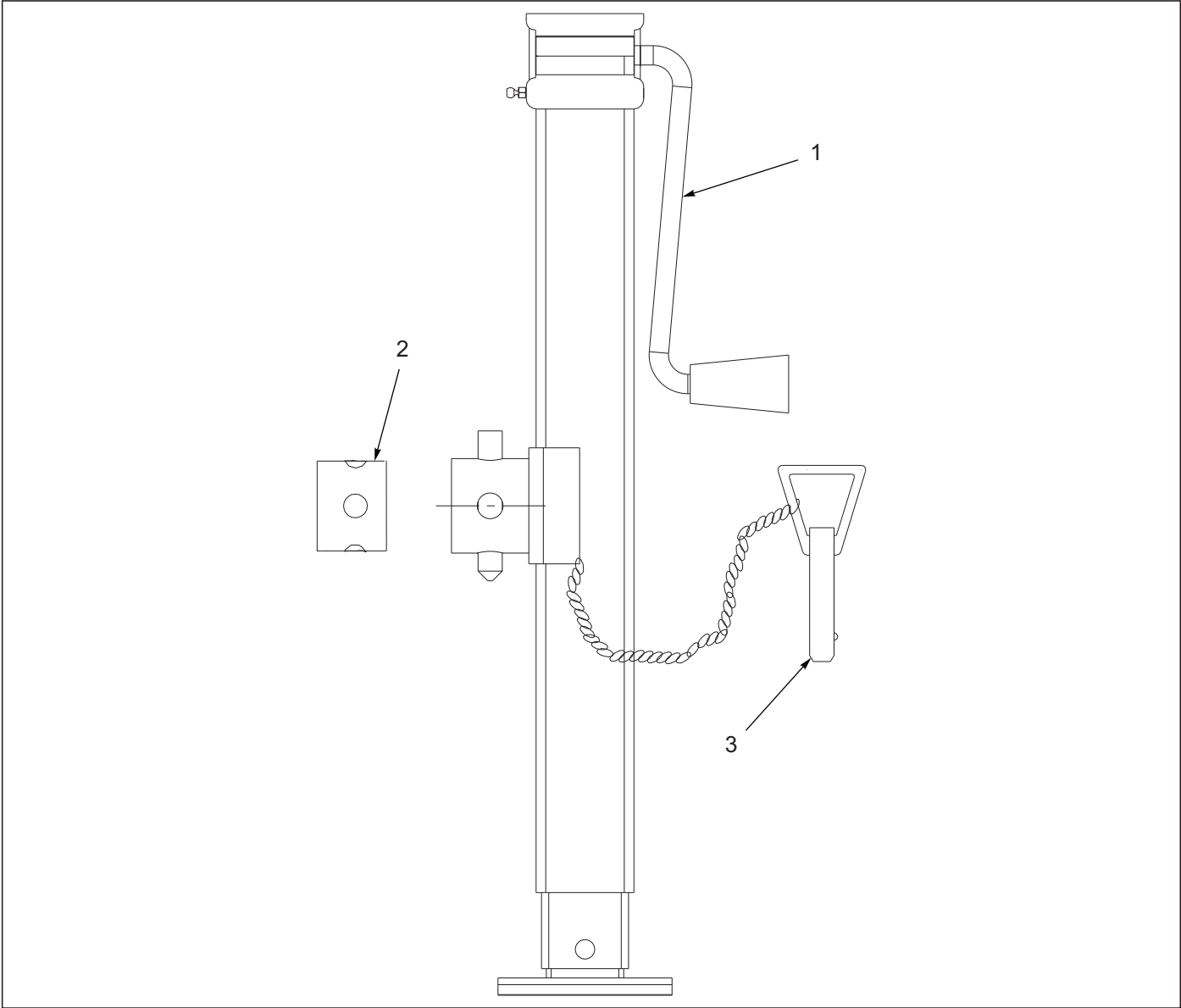


Figure 2-5: 7,000 Lb. Sidewind Jack Assembly

7,000 lb. Sidewind Jack Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140647	JACK, SIDEWIND 7000LB	
1	500171	HANDLE FOR JACK	1
2	141250	TUBE, ROUND JACK MOUNT (WELD TO IMPLEMENT FRAME)	1
3	142194	5/8" PIN	1

Disc Gang Assemblies (2431-11/13 Shank)

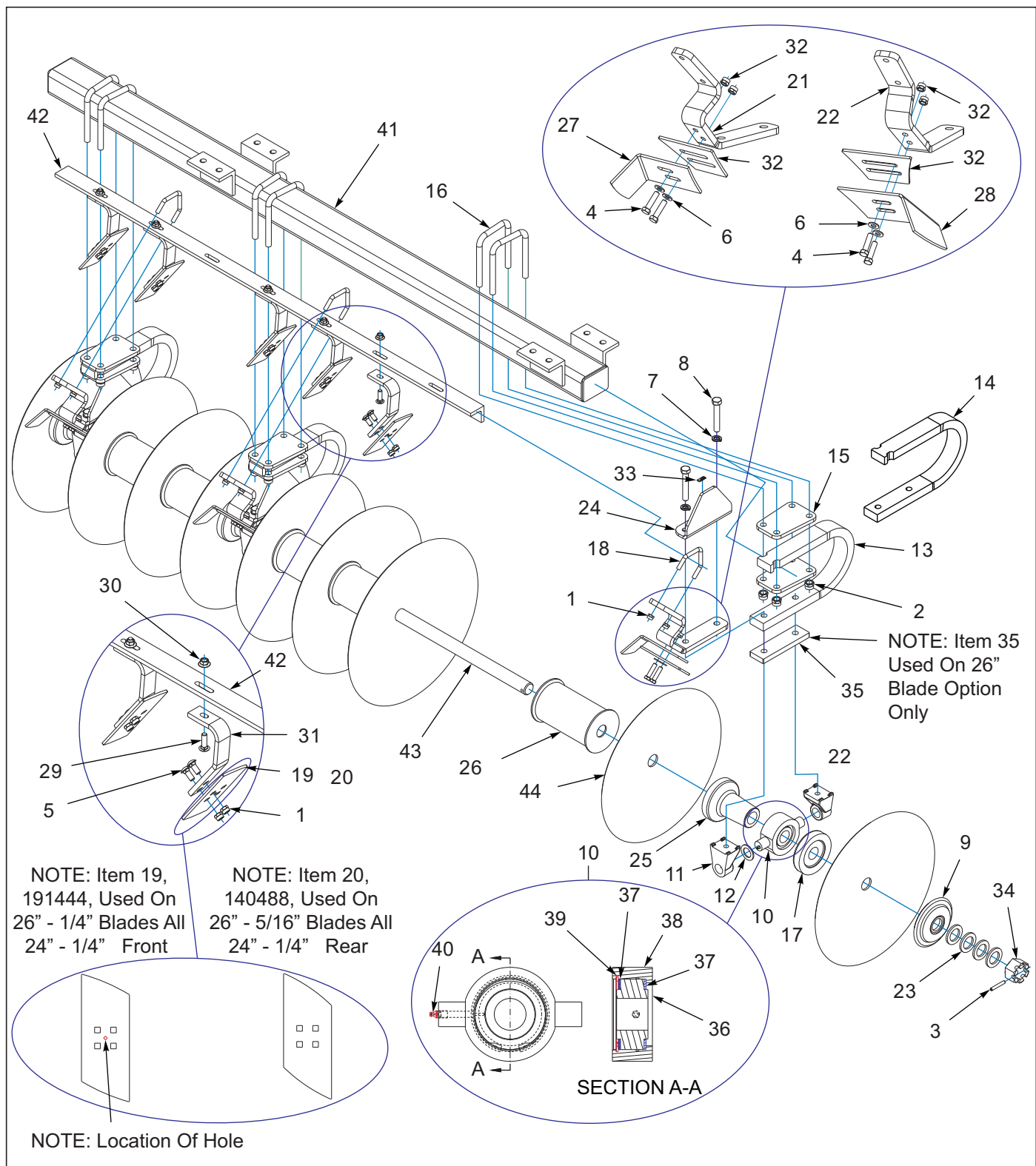


Figure 3-1: Disc Gang Assembly (2431-11/13 Shank)

Disc Gang Assembly (2431-11/13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	245157	ASSY 26"X1/4 LC 2431-11	*					
--	245155	ASSY 24"X1/4 STD 2431-11		*				
--	245156	ASSY, 24 X 1/4 ROLL, 2431-11			*			
--	245163	ASSY 26"X1/4 LC 2431-13				*		
--	245161	ASSY 24"X1/4 STD 2431-13					*	
--	245162	ASSY, 24 X 1/4 ROLL, 2431-13						*
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	140	140	140	164	164	164
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	64	64	64	80	80	80
3	1-647-010004257	PIN,SPRING,SLOTTED 3/8X2-1/2	16	16	16	16	16	16
4	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	32	32	32	40	40	40
5	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	76	76	76	84	84	84
6	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	32	32	32	40	40	40
7	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	32	32	32	40	40	40
8	126108	SCREW HX CP 3/4-10X4-1/2 GR8	32	--	--	40	--	--
8	114029	SCREW HX CAP 3/4-10X4 GR8	--	32	32	--	40	40
9	140469	END COLLAR	16	16	16	16	16	16
10	140477	BEARING, DISC 1.775 ID ASSY (INCLUDES ITEMS 36-40)	16	16	16	20	20	20
11	140479	MOUNT, TRUNNION	32	32	32	40	40	40
12	140480	WASHER, TRUNNION	16	16	16	20	20	20
13	140481	SHANK, DISC BEARING, RIGHT (FRONT RT - REAR LT)	8	8	8	10	10	10
14	140482	SHANK, DISC BEARING, LEFT 5	8	8	8	10	10	10
15	140483	PLATE, DISC SHANK MOUNT	32	32	32	40	40	40
16	140484	U-BOLT, 3/4 X 5	32	32	32	40	40	40
17	140485	HALF SPOOL, CONCAVE	16	16	16	20	20	20
18	140487	UBOLT, SCRAPER BAR MOUNT	16	16	16	20	20	20
19	191444	SCRAPER, 4-1/2 IN LC	38	18	18	42	20	20
20	140488	SCRAPER 4-1/2 IN	--	20	20	--	22	22
21	140490	MOUNT, SCRAPER BAR RIGHT (FRONT RT - REAR LT)	8	8	8	10	10	10
22	140491	MOUNT, SCRAPER BAR LEFT (FRONT LT - REAR RT)	8	8	8	10	10	10
23	141154	WASHER GANG SHAFT	38	38	38	38	38	38
24	143988	STOP, DISC SHANK	16	16	16	20	20	20
25	148363	HALF SPOOL CONVEX	16	16	16	20	20	20
26	148364	SPOOL WLDMT 10-1/2"	34	34	34	38	38	38
27	150231	SCRAPER, DUAL RIGHT 10-1/2 (FRONT RT - REAR LT)	8	8	8	10	10	10
28	150232	SCRAPER, DUAL LEFT 10-1/2 (FRONT LT - REAR RT)	8	8	8	10	10	10
29	160161	SHAKER BOLT1/2-13X1-3/4 GR8ZP	38	38	38	42	42	42
30	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	38	38	38	42	42	42
31	172724	ARM, SCRAPER	38	38	38	42	42	42
32	198034	SCRAPER DUAL ADJ BACK	16	16	16	20	20	20
33	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	16	16	16	20	20	20
34	23085	NUT HEX SLOTTED 1 3/4-5	16	16	16	15	15	15
35	169601	PLATE-GANG SPACER	16	--	--	20	--	--

Disc Gang Assembly (2431-11/13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY.					
36	140464	BEARING, DISC 1.775 ID	1	1	1	1	1	1
37	140473	WASHER, BEARING	2	2	2	2	2	2
38	140475	CASTING, TRUNNION	1	1	1	1	1	1
39	140476	INTERNAL RETAINING RING	1	1	1	1	1	1
40	5000	ZERK FITTING 1/8NPT	1	1	1	1	1	1
41	-----	GANG BAR (SEE PAGE 3-3)						
42	-----	SCRAPER BAR (SEE PAGE 3-3)						
43	-----	GANG SHAFT (SEE PAGE 3-3)						
44	-----	DISC BLADE (SEE PAGE 3-3)						

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Disc Gang Placement 26" Blade

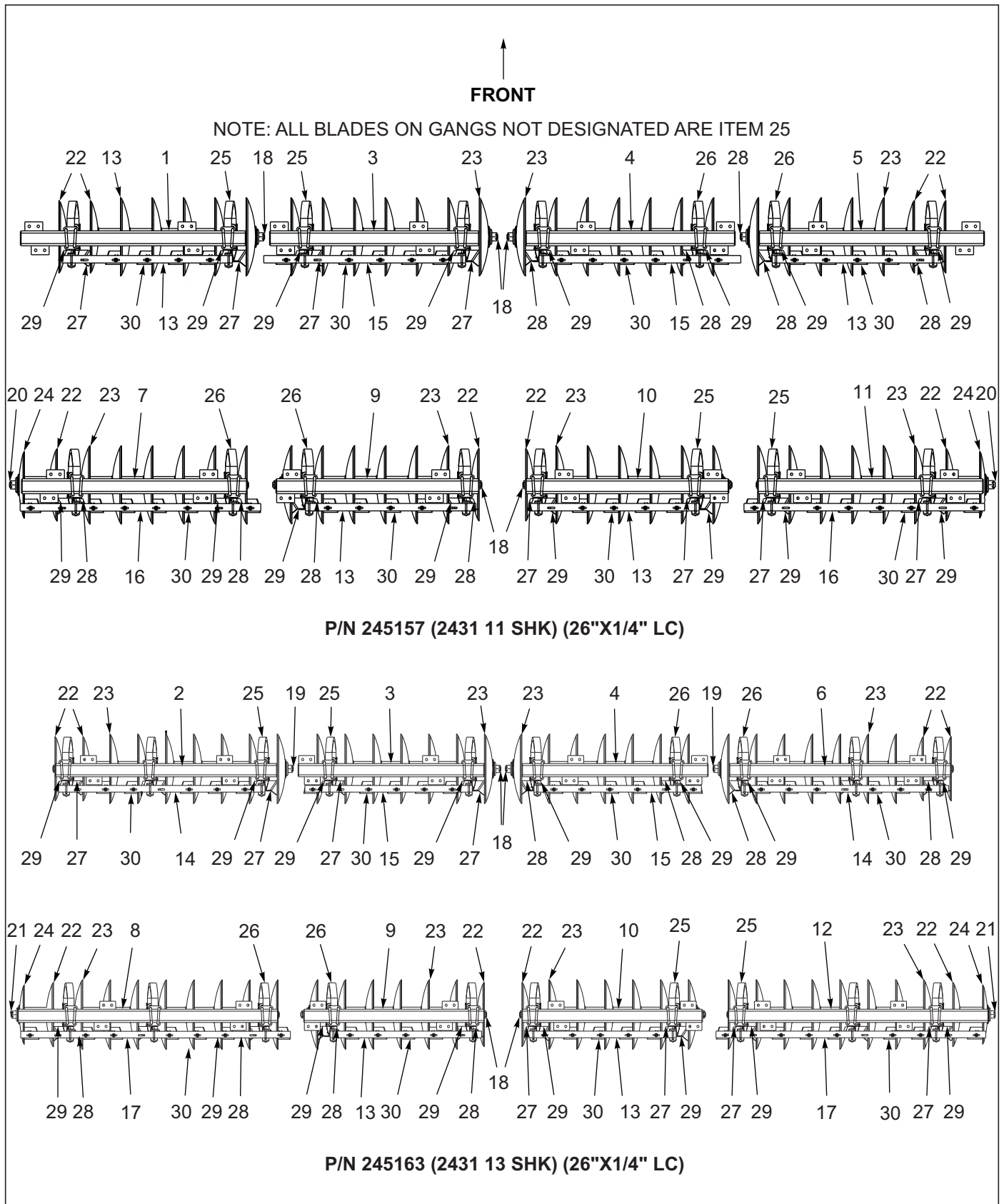


Figure 3-2: Disc Gang Placement 26" Blade

Disc Gang Placement 26" Blade

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245157	ASSY 26"X1/4 LC 2431-11	*	
--	245163	ASSY, 26"X1/4 LC 2431-13		*
1	245172	GANG BAR, LW FT-11	1	--
2	245176	GANGBAR, LW FT-13	--	1
3	245168	GANG BAR, LC FT-11/13	1	1
4	245167	GANG BAR, RC FT-11/13	1	1
5	245171	GANG BAR, RW FT-11	1	--
6	245175	GANGBAR, RW FT-13	--	1
7	245174	GANG BAR, LW RR-11	1	--
8	245178	GANGBAR, LW RR-13	--	1
9	245170	GANG BAR, LC RR-11/13	1	1
10	245169	GANG BAR, RC RR-11/13	1	1
11	245173	GANG BAR, RW RR-11	1	--
12	245177	GANGBAR, RW RR-13	--	1
13	160183	SCRAPER BAR, 10 1/2 SP 5 HOLE	4	2
14	149604	SCRAPER BAR,10-1/2 SP 7 HOLE	--	2
15	246804	SCRAPER BAR, 10-1/2 SP 6 DBL	2	2
16	245238	SCRAPER BAR 10-1/2"SP 8HOLE SP	2	--
17	246861	SCRAPER BAR, 10-1/2 SP 10 HOLE	--	2
18	156951	SHAFT, GANG 70 L	6	4
19	149592	SHAFT, GANG 90-1/2 L	--	2
20	149591	SHAFT, GANG 80"	2	--
21	149593	SHAFT, GANG 101	--	2
22	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	8	8
23	169575	DISC BLADE 26"X1/4" 1-3/4" ID	48	56
24	155617	DISC BLADE,22"X1/4" 1-3/4 ID	2	2
25	140482	SHANK, DISC BEARING, LEFT	8	10
26	140481	SHANK, DISC BEARING, RIGHT	8	10
27	150232	SCRAPER, DUAL LEFT 10-1/2	8	10
28	150231	SCRAPER, DUAL RIGHT 10-1/2	8	10
29	198034	SCRAPER DUAL ADJ BACK	16	20
30	191444	SCRAPER, 4-1/2 IN LC	38	42

Disc Gang Placement 24" Blade (2431-11 Shank)

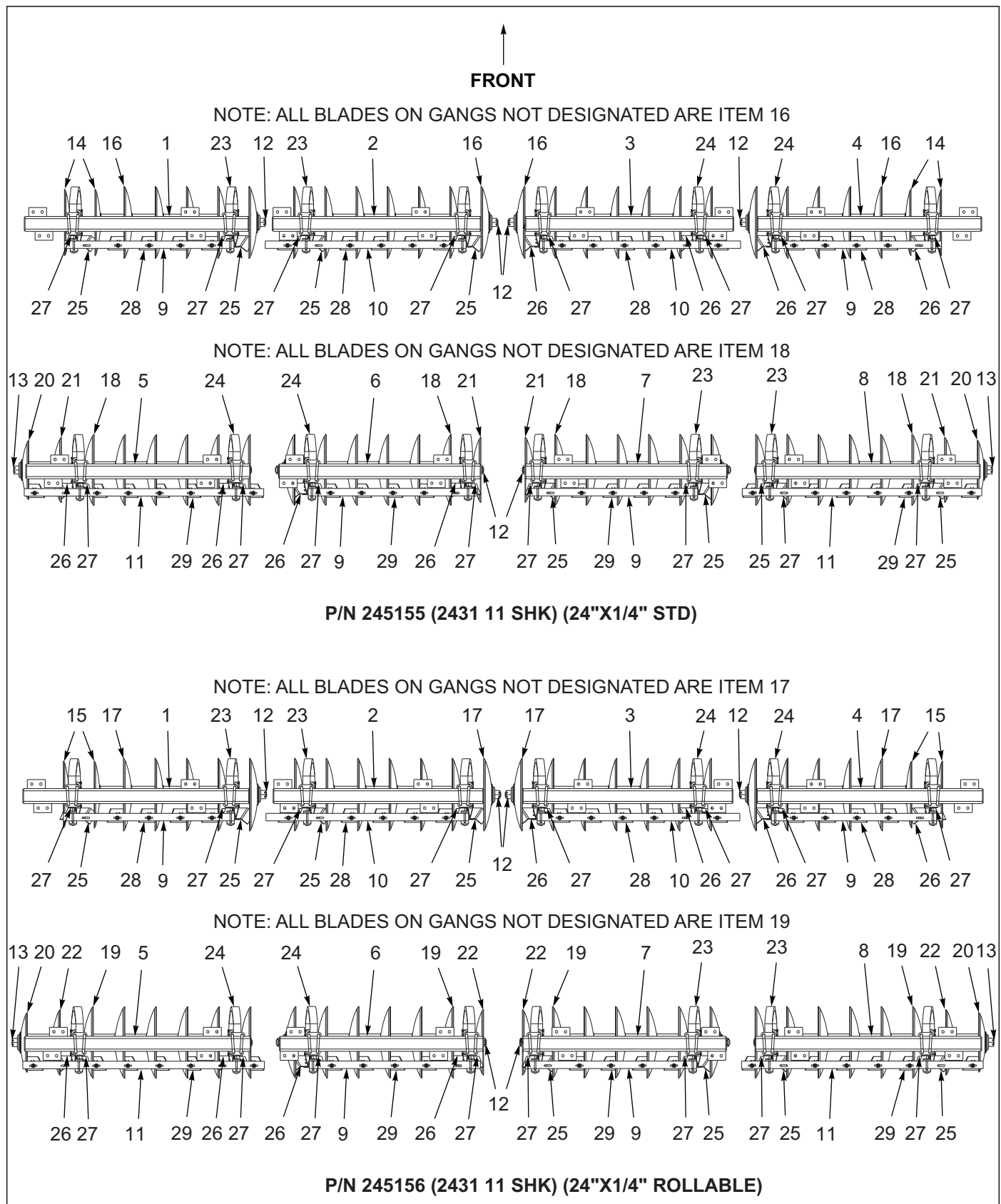


Figure 3-3: Disc Gang Placement 24" Blade (2431-11 Shank)

Disc Gang Placement 24" Blade (2431-11 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245155	ASSY 24"X1/4 STD 2431-11	*	
--	245156	ASSY, 24 X 1/4 ROLL, 2431-11	*	
1	245172	GANG BAR, LW FT-11	1	1
2	245168	GANG BAR, LC FT-11/13	1	1
3	245167	GANG BAR, RC FT-11/13	1	1
4	245171	GANG BAR, RW FT-11	1	1
5	245174	GANG BAR, LW RR-11	1	1
6	245170	GANG BAR, LC RR-11/13	1	1
7	245169	GANG BAR, RC RR-11/13	1	1
8	245173	GANG BAR, RW RR-11	1	1
9	160183	SCRAPER BAR, 10 1/2 SP 5 HOLE	4	4
10	246804	SCRAPER BAR, 10-1/2 SP 6 DBL	2	2
11	245238	SCRAPER BAR 10-1/2"SP 8HOLE SP	2	2
12	156951	SHAFT, GANG 70 L	6	6
13	149591	SHAFT, GANG 80"	2	2
14	155617	DISC BLADE,22"X1/4" 1-3/4 ID	4	--
15	155618	DISC BLADE,22"X1/4" 1-3/4 ID (ROLLABLE)	--	4
16	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	24	--
17	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	24
18	140465	DISC BLADE,24" 1/4" 1-3/4" ID	24	--
19	142662	DISC BLADE, 24 X 1/4 1-3/4ID (ROLLABLE)	--	24
20	140467	DISC BLADE,20" 1/4" 1-3/4 ID	2	2
21	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	4	--
22	142660	DISC BLADE, 22 X 1/4 1-3/4ID (ROLLABLE)	--	4
23	140482	SHANK, DISC BEARING, LEFT	8	8
24	140481	SHANK, DISC BEARING, RIGHT	8	8
25	150232	SCRAPER, DUAL LEFT 10-1/2	8	8
26	150231	SCRAPER, DUAL RIGHT 10-1/2	8	8
27	198034	SCRAPER DUAL ADJ BACK	16	16
28	191444	SCRAPER, 4-1/2 IN LC	18	18
29	140488	SCRAPER 4-1/2 IN	20	20

Disc Gang Placement 24" Blade (2431-13 Shank)

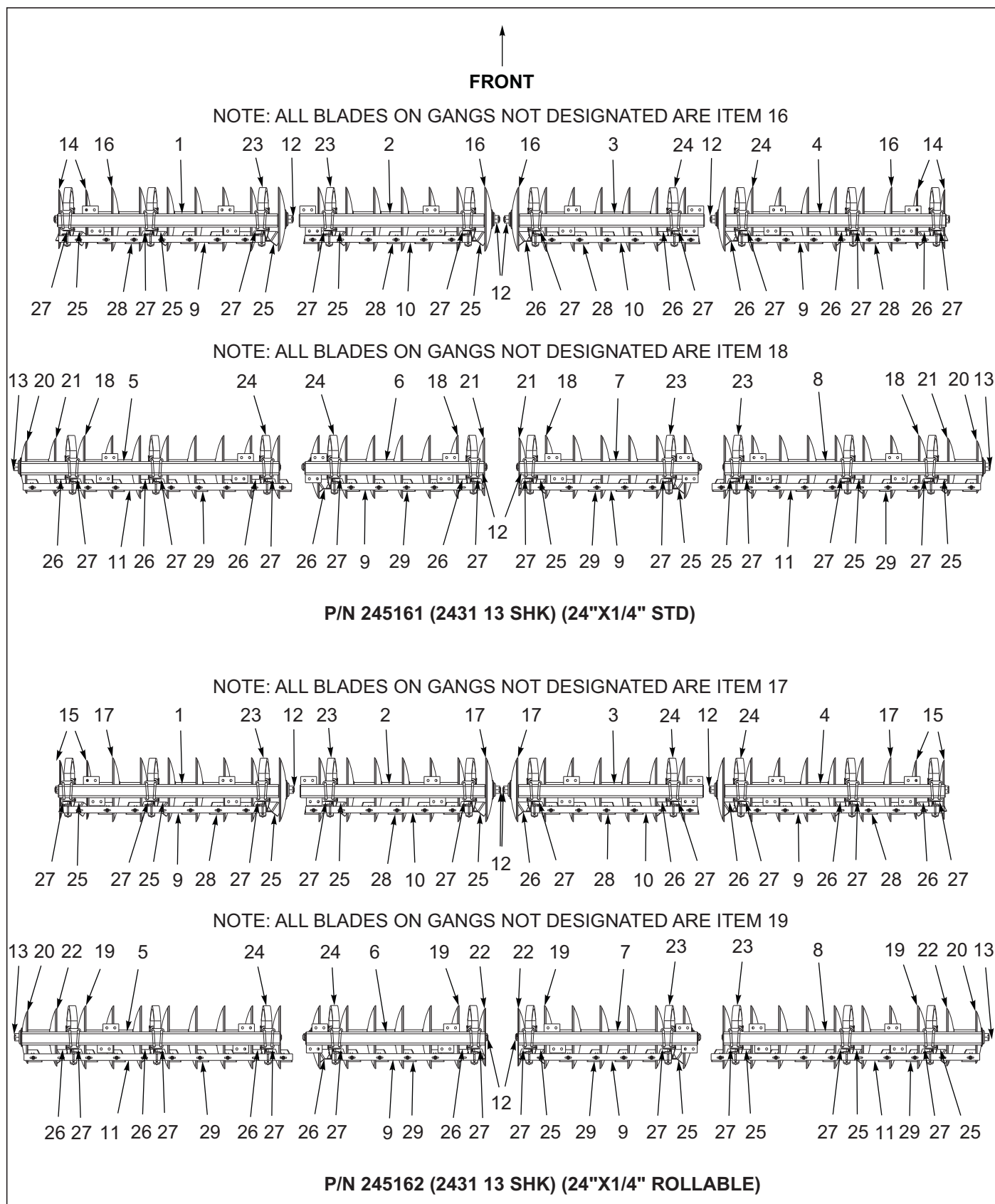


Figure 3-4: Disc Gang Placement 24" Blade (2431-13 Shank)

Disc Gang Placement 24" Blade (2431-13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245161	ASSY, 24X1/4 STD, 2431-13	*	
--	245162	ASSY, 24X1/4 ROLL, 2431-13	*	
1	245176	GANGBAR, LW FT-13	1	1
2	245168	GANG BAR, LC FT-11/13	1	1
3	245167	GANG BAR, RC FT-11/13	1	1
4	245175	GANGBAR, RW FT-13	1	1
5	245178	GANGBAR, LW RR-13	1	1
6	245170	GANG BAR, LC RR-11/13	1	1
7	245169	GANG BAR, RC RR-11/13	1	1
8	245177	GANGBAR, RW RR-13	1	1
9	149604	SCRAPER BAR,10-1/2 SP 7 HOLE	2	2
10	160183	SCRAPER BAR, 10 1/2 SP 5 HOLE	2	2
11	246804	SCRAPER BAR, 10-1/2 SP 6 DBL	2	2
12	156951	SHAFT, GANG 70 L	4	4
13	149592	SHAFT, GANG 90-1/2 L	2	2
14	149593	SHAFT, GANG 101	2	2
15	155617	DISC BLADE,22"X1/4" 1-3/4 ID	4	--
16	155618	DISC BLADE,22"X1/4" 1-3/4 ID (ROLLABLE)	--	4
17	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	28	--
18	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	28
19	140465	DISC BLADE,24" 1/4" 1-3/4" ID	28	--
20	142662	DISC BLADE, 24 X 1/4 1-3/4ID (ROLLABLE)	--	28
21	140467	DISC BLADE,20" 1/4" 1-3/4 ID	2	2
22	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	4	--
23	142660	DISC BLADE, 22 X 1/4 1-3/4ID (ROLLABLE)	--	4
24	140482	SHANK, DISC BEARING, LEFT	10	10
25	140481	SHANK, DISC BEARING, RIGHT	10	10
26	150232	SCRAPER, DUAL LEFT 10-1/2	10	10
27	150231	SCRAPER, DUAL RIGHT 10-1/2	10	10
28	198034	SCRAPER DUAL ADJ BACK	20	20
29	191444	SCRAPER, 4-1/2 IN LC	20	20
30	140488	SCRAPER 4-1/2 IN	22	22

Disc Gang Lift Assembly Center

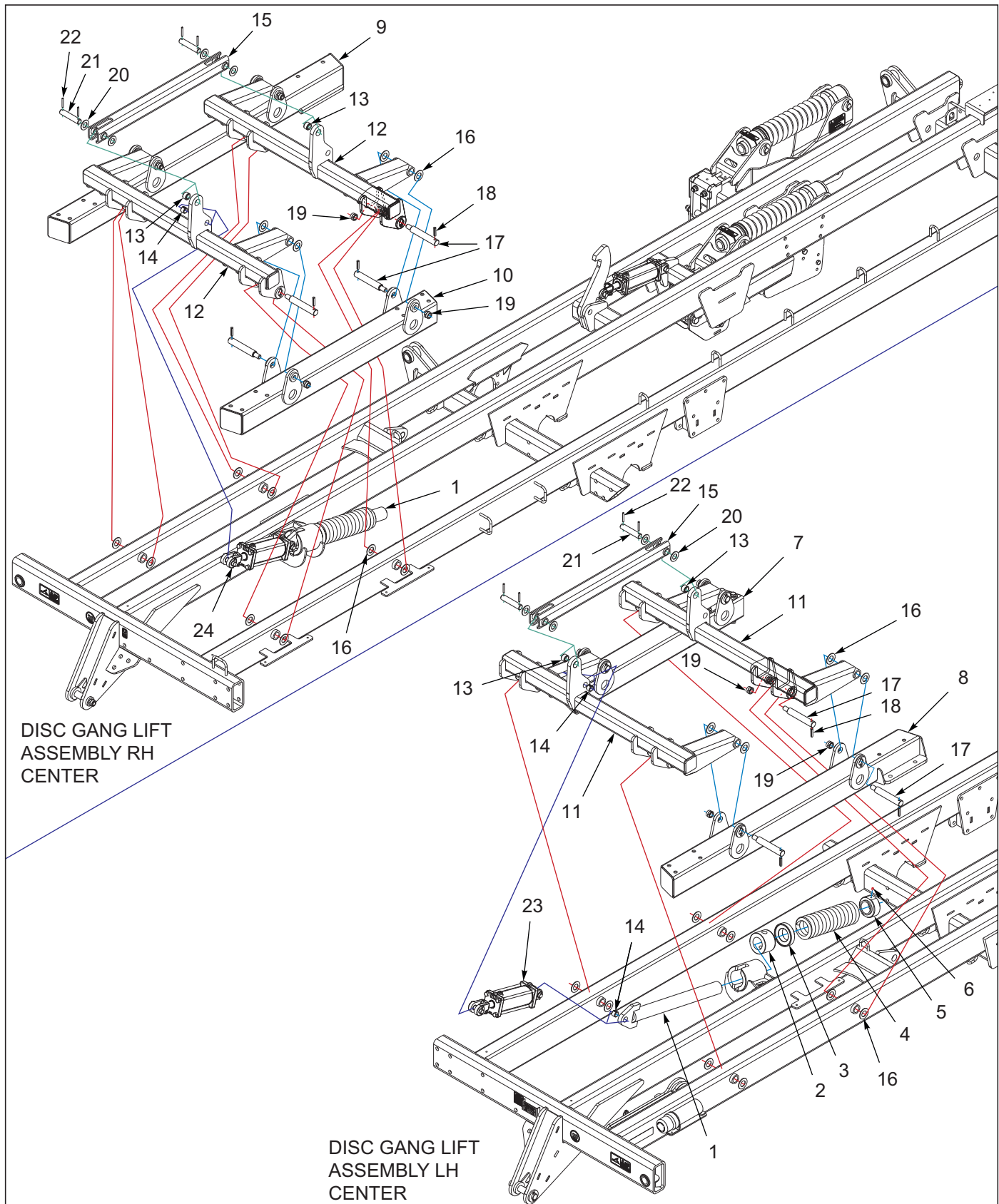


Figure 3-5: Disc Gang Lift Assembly Center

Disc Gang Lift Assembly Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	237407	SPRING ROD, DISC GANG	2
2	144451	SLIDE, SPRING ROD	2
3	144449	WASHER, SPRING ROD	2
4	144461	SPRING, COIL COMPRESSION	2
5	145196	THREADED CAP, COULTER SPRING	2
6	122709	SCREW,SET,HXSKTCPPT 3/8-16X1/2	1
7	244454	LIFT, GANG LT INNER CTR	1
8	244455	LIFT, GANG LT OUTER CTR	1
9	244451	LIFT, GANG RT OUTER CTR	1
10	244450	LIFT, GANG RT INNER CTR	1
11	244468	LIFT, DISC LEFT CENTER	2
12	244466	LIFT, DISC RIGHT CENTER	2
13	2-150-010174	BUSHING,1-5/8X1-1/4X1	4
14	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
15	234780	LINK, GANGS 40 WLDMT	2
16	141266	WASHER, THRUST 1-1/2	32
17	240360	PIN, GANG PIVOT	16
18	144115	PIN, GROOVED ALLOY 1/2X2-1/4	16
19	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	16
20	116100	WASHER 1-1/4 NAR FL ZP/CD	8
21	141244	PIN, FOLD	4
22	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	8
23	145202	CYLINDER 3-3/4 X 8 REPHASE (SEE PAGES 6-5 OR 6-6)	1
24	145203	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGES 6-7 OR 6-8)	1

Disc Gang Lift Assembly Wing

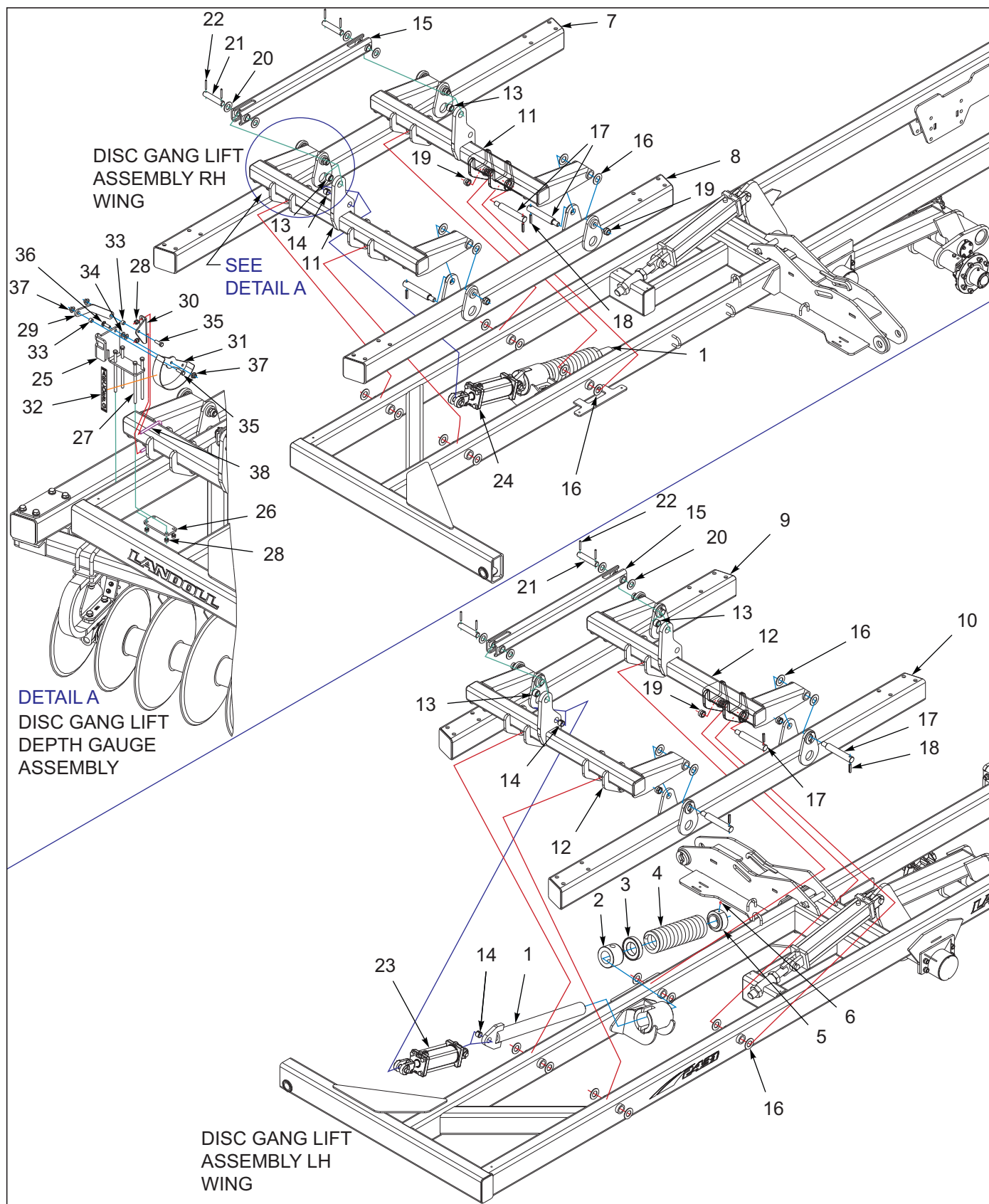


Figure 3-6: Disc Gang Lift Assembly Wing

Disc Gang Lift Assembly Wing

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	237407	SPRING ROD, DISC GANG	2
2	144451	SLIDE, SPRING ROD	2
3	144449	WASHER, SPRING ROD	2
4	144461	SPRING, COIL COMPRESSION	2
5	145196	THREADED CAP, COULTER SPRING	2
6	122709	SCREW,SET,HXSKTCPPT 3/8-16X1/2	1
7	244453	LIFT, GANG RT OUTER WING	1
8	244452	LIFT, GANG RT INNER WING	1
9	244456	LIFT, GANG LT INNER WING	1
10	244457	LIFT, GANG LT OUTER WING	1
11	244467	LIFT, DISC RIGHT WING	2
12	244469	LIFT, DISC LEFT WING	2
13	2-150-010174	BUSHING,1-5/8X1-1/4X1	4
14	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
15	234780	LINK, GANGS 40 WLDMT	2
16	141266	WASHER, THRUST 1-1/2	32
17	240360	PIN, GANG PIVOT	16
18	144115	PIN, GROOVED ALLOY 1/2X2-1/4	16
19	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	16
20	116100	WASHER 1-1/4 NAR FL ZP/CD	8
21	141244	PIN, FOLD	4
22	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	8
23	145201	CYLINDER 4 X 8 REPHASE (SEE PAGES 6-3 OR 6-4)	1
24	145204	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGES 6-9 OR 6-10)	1
25	236073	MOUNT, GAUGE	1
26	236058	PLATE, GAUGE MOUNT	1
27	126368	SCREW,HEX CAP1/2-13UNCX9-1/2	4
28	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	6
29	241936	LINK, GAUGE 2411-6	1
30	241937	MOUNT, DEPTH GAUGE ARM	1
31	237410	GAUGE, LEVEL IND, 1/2 HOLES	1
32	141263	DECAL, LEVEL INDICATOR	1
33	155956	BUSHING ANGLE ADJUSTMENT	2
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	2
35	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2
36	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	1
37	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	3
38	3J562	U-BOLT 1/2-13 X 5-1/2 X 4-9/16	1

Disc Gang To Frame Assembly

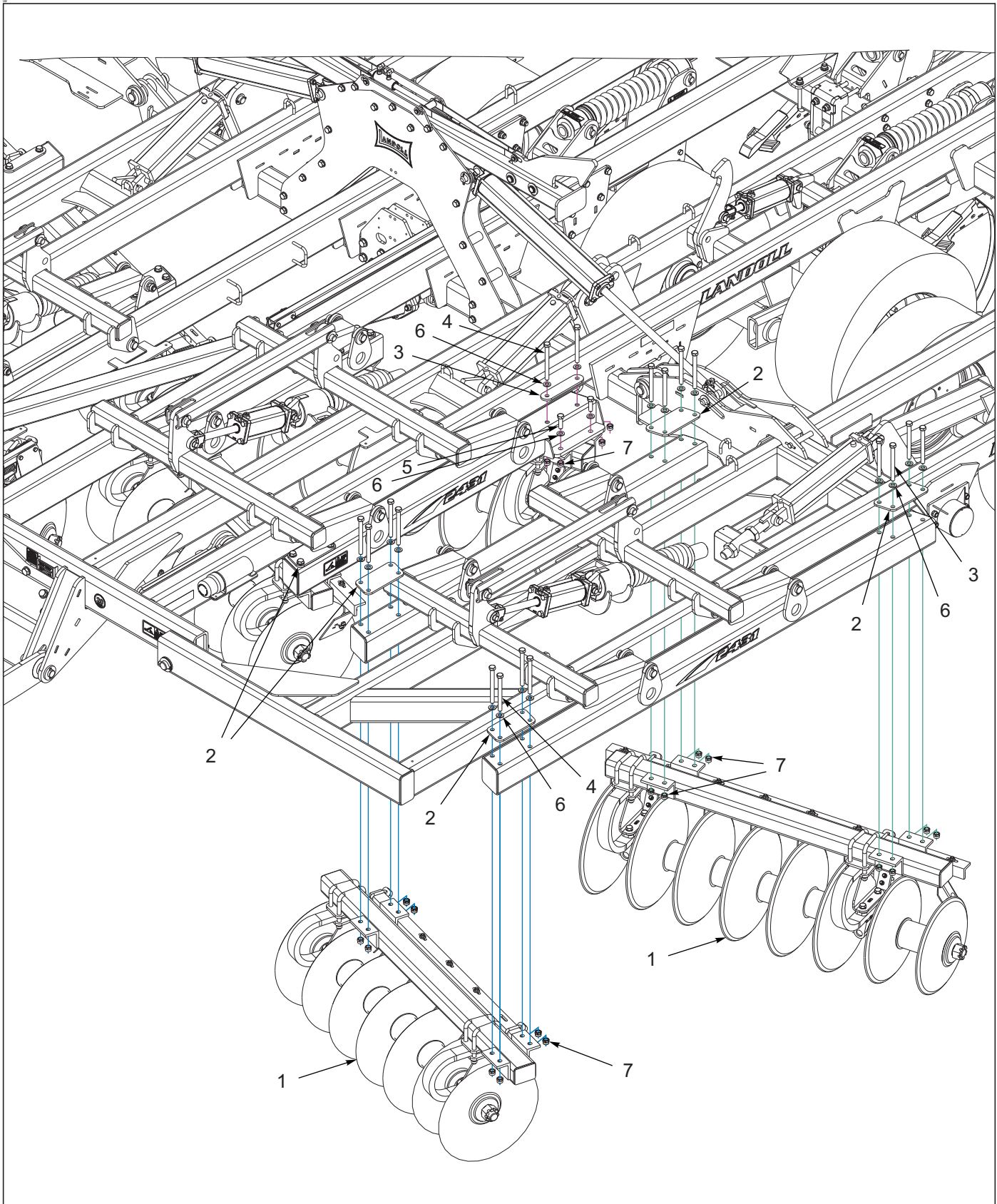


Figure 3-7: Disc Gang To Frame Assembly

Disc Gang To Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANGBAR W/BLADES (SEE PAGE 3-1 THRU 3-13)	1
2	196966	PLATE, GANG LIFT	14
3	170292	PLATE, CLAMP	2
4	162249	SCREW, HX CP,3/4-10UNCX8 GR8	56
5	104483	SCREW 3/4-10X2-1/2 HXCP ZPGR8	4
6	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	60
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	60

Shank Assembly

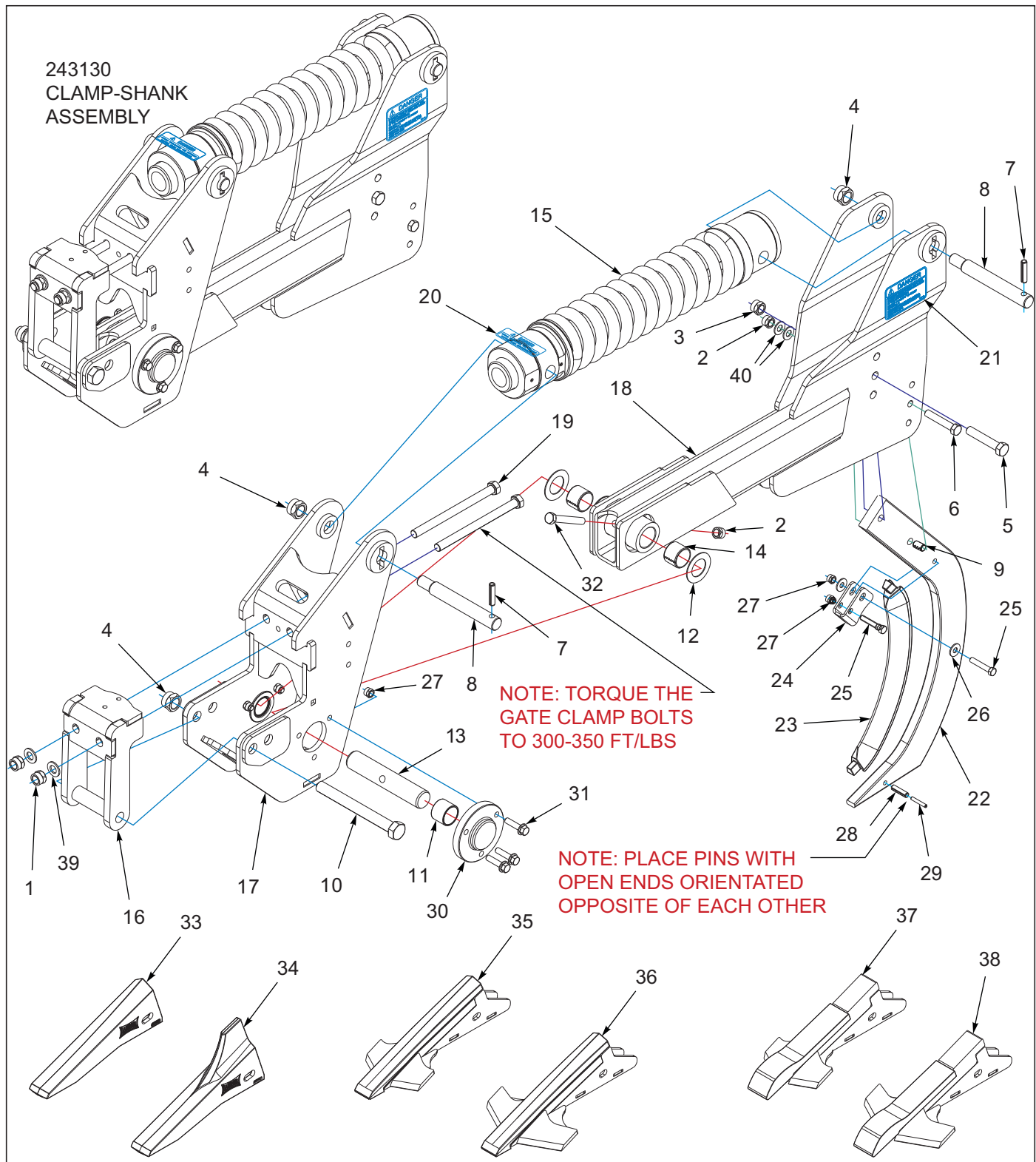


Figure 4-1: Shank Assembly

Shank Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	243130	CLAMP-SHANK, ASM W/CHROME PIN	
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	2
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	1
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	3
5	1-654-010061-13	SCREW,HX CP 3/4-10UNCX4 GR5	1
6	138567	SCREW,HX CP 5/8-11UNCX3-1/2G8 (BEFORE 01-01-2024)	1
6	172829	SCREW HX CP 5/8-11X4 GR8 (AFTER 01-01-2024)	1
7	141251	SPRING PIN,SLOTTED 1/2X2-1/4	2
8	144457	PIN, SHANK	2
9	150244	BUSHING,CNX-5/8 X 3/4 X 1-1/4	1
10	172581	SCREW HEX CAP 1-8UNCX9.5 GR8	1
11	210879	BEARING-HEF, 2.004X1.76X1-1/2	1
12	195566	WASHER THRUST 1-3/4 14 GA	2
13	243129	PIN, SHANK PIVOT NITRO	1
14	240342	BUSHING,SPRG 2 X 1-3/4 X 1-1/2	2
15	218785	SPRING-CLAMP, SHANK, ASSY	1
16	221412	GATE-CLAMP WLDMT	1
17	243128	CLAMP, SHANK WLDMT	1
18	240314	SHANK MOUNT, 1-1/4, WLDMT	1
19	239516	SCREW, HXCP 3/4-16UNFX10 GR8	2
20	2-573-010469	DECAL, DANGER SPRING	1
21	207142	DECAL, DANGER STUCK SHANK	1
22	169493	SHANK, 1-1/4 X 4, BOLT-IN,2410	1
23	224747	GUARD-WEAR, PARABOLIC	1
24	224748	KEEPER-WEAR GUARD,PARABOLIC	1
25	101510	SCREW HXCP1/2-13UNCX2-3/4 G5	2
26	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2
27	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
28	127351	PIN, SPRING, SLOTTED 1/2X2	1
29	147072	PIN, SPRING SLOTTED 5/16 X 2	1
30	241980	CAP, BEARING STEEL 1-3/4 PIN	2
30	239522	CAP, CASTING MACHINED	2
31	1-655-010001-05	SCREW,FLG HD 1/2-13X2 GR8 ZP (STEEL CAP)	6
31	243054	SCREW FLG HD 1/2-13X1-3/4 GR8 (CAST CAP)	6
32	1-654-010059-14	SCREW HX CP,5/8-11UNCX4-1/2G5	1
33	227189	1-1/4,PLN,CADI,2-1/2	1
34	227191	1-1/4,CADI,FIN,2-1/2	1
35	227207	1-1/4,WNGD,7,CHRM CAP,2-1/2WLD	1
36	227210	1-1/4,WNGD,10,CHRM CAP,2-1/2WLD	1
37	227265	1-1/4, WINGD,7,CST STL CAP	1
38	227272	1-1/4,WNGD,10,CST STL CAP	1
39	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	2
40	1-861-010032-18	WASHER, FLAT 5/8 N ZP/CD (AFTER 01-01-2024)	2

Hydraulic Assemblies

Lift Assembly

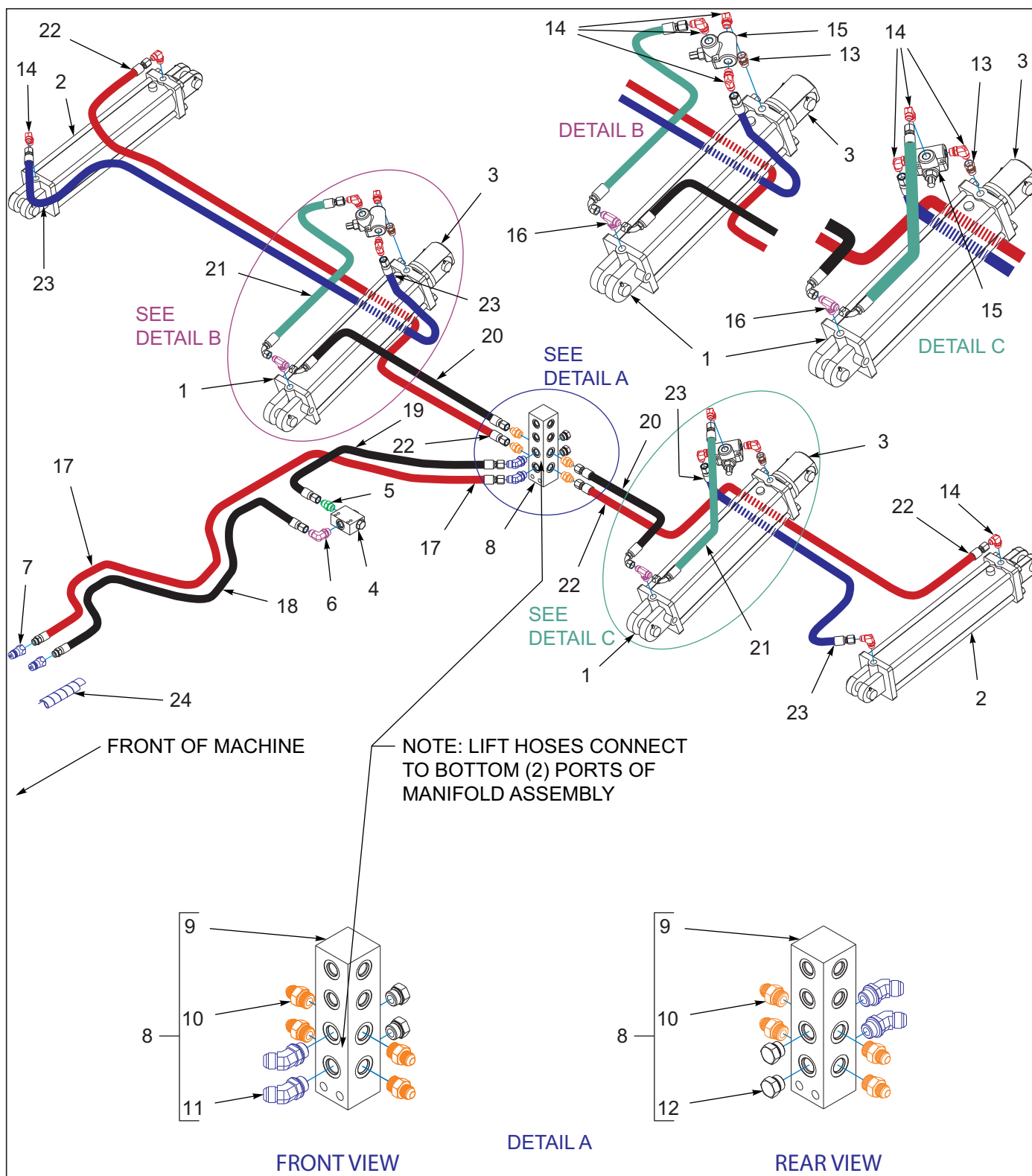


Figure 5-1: Lift Assembly

Lift Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	146824	CYLINDER, 4-1/2 X16, REPHASE (SEE PAGE 6-1)	2
2	146825	CYLINDER, 4X16, REPHASE (SEE PAGE 6-2)	2
3	165238	BLOCK, CYLINDER ROD (SEE PAGE 6-1) (DOES NOT INCLUDED BUSHINGS)	2
4	239435	VALVE, LIMIT .156 REST	1
5	137486	ADAPTER #10 O-RING TO #10 JIC	1
6	124511	ADAPTER 90 #10 O-RINGX#10JIC	1
7	163513	COUPLER PIONEER MALE 8010-16P	2
8	246765	ASSY, MANIFOLD LIFT/FOLD (INCLUDES ITEMS 9-12) (SEE PAGE 5-7)	1
9	236050	MANIFOLD HYD,8-3/4,8-7/8 PORT	1
10	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	4
11	18K7	ELBOW 45 .875-14 "O" TO	2
12	900598-10S	PLUG, O-RING BOSS #10	2
13	102-1130	FTG,STR 8M ORING X 8F JIC SW	2
14	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	10
15	165287	VALVE, RELIEF, 1000PSI	2
16	203003-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	2
17	246798	HOSE ASSY, 5/8X330,10FJSX10MOR	1
18	246799	HOSE ASSY, 5/8X214,10FJSX10MOR	1
19	243133	HOSE ASSY 5/8X134 #10STR JIC	1
20	1-397-010302062	HOSE ASSY,1/2X62,SAE 37STR-90	2
21	125871	HOSE ASSY 1/2X21 SAE37 STR-90	2
22	1-397-010301164	HOSE ASSY 1/2X164,SAE37,STR	2
23	51039-23	HOSE ASSY 1/2X106 SAE37 STR	2
24	155528	HOSE WRAP, BLUE 1" ID X 8"	1

Fold Assembly

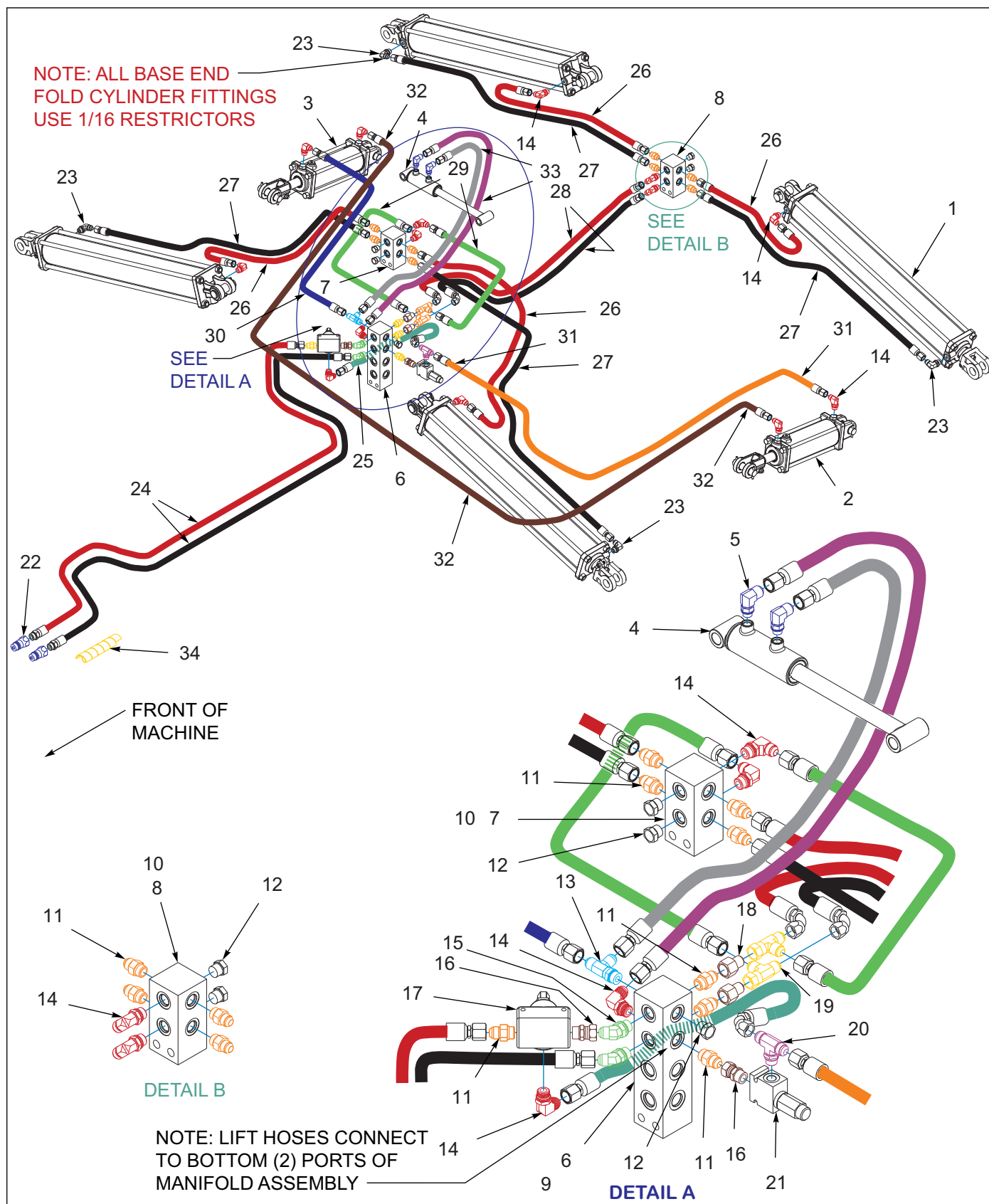


Figure 5-2: Fold Assembly

Fold Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-11 OR 6-12)	4
2	145203	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGE 6-7 OR 6-8)	1
3	145204	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGE 6-9 OR 6-10)	1
4	230890	CYLINDER,1-1/2X1-1/2,3000PS (SEE PAGE 6-13)I	1
5	2062-6-8S	ADAPTER 90" 562 O-RING-.75JIC	2
6	246765	ASSY, MANIFOLD LIFT/FOLD (INCLUDES ITEMS 9, 11, 13-21) (SEE PAGE 5-7)	1
7	246763	ASSY, MANIFOLD FRONT FOLD (INCLUDES ITEMS 10, 11, 12, 14)	1
8	246764	ASSY, MANIFOLD REAR FOLD (INCLUDES ITEMS 10, 11, 12, 14)	1
9	236050	MANIFOLD HYD,8-3/4,8-7/8 PORT	1
10	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	2
11	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	12
12	1-007-010025	PLUG, 3/4-16 O-RING BOSS	5
13	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
14	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	14
15	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	2
16	102-1130	FTG,STR 8M ORING X 8F JIC SW	2
17	165287	VALVE, RELIEF, 1000PSI	1
18	127806	ADAPTER,HYD,-8JIC W/3/32RESTR	2
19	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
20	203003-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
21	193149	VALVE,RELIEF PILOT OP W/REV CK	1
22	141828	COUPLER,MALE 3/4-16 O-RING	2
23	141826	ELBOW 90 1/16 RES	4
24	232423	HOSE ASSY, 3/8X330 #8JICX#8MOR	2
25	203424	HOSE ASSY 3/8X26 #8STR-#8-90	1
26	147584	HOSE ASSY 3/8X40 #8 JIC SWIV	4
27	181801	HOSE ASSY, 3/8x58 #8 JIC SWIV	4
28	183484	HOSE ASM,3/8X175,#8JICX90#8JIC	2
29	147582	HOSE ASSY 3/8X24 #8 JIC SWIV	2
30	116433	HOSE ASSY 3/8X90 #8 JIC SWV	1
31	195647	HOSE ASSY, 3/8X93 #8 JIC SWIV	1
32	141883	HOSE ASSY 3/8X190 #8 JIC SWIV	1
33	1-397-010369036	HOSE ASSY 3/8X36,#8 JIC SWVL	2
34	155529	HOSE WRAP, YELLOW 1" ID X 8"	1

Gang Lift Assembly

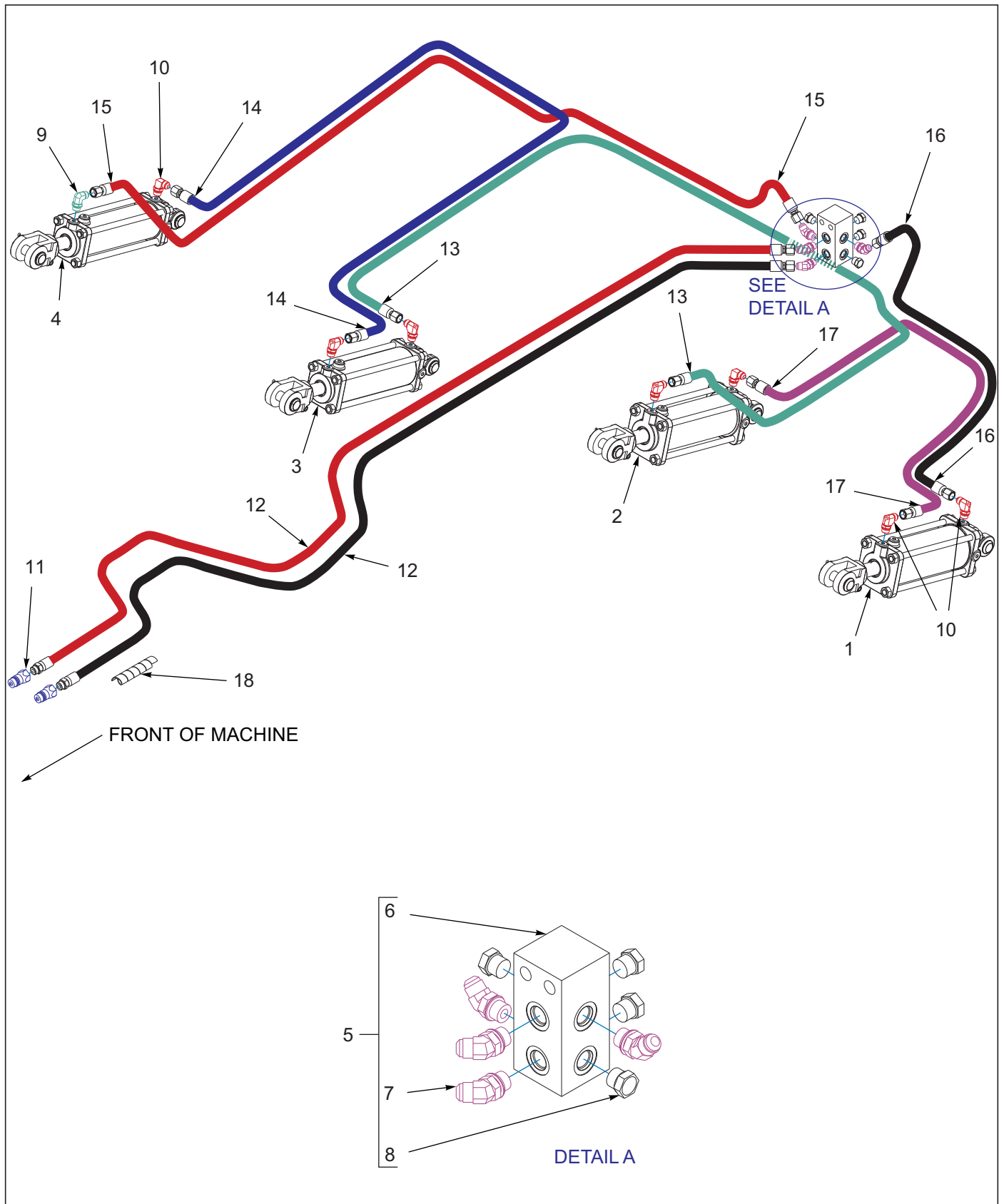


Figure 5-3: Gang Lift Assembly

Gang Lift Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	145201	CYLINDER, 4 X 8, REPHASE (SEE PAGES 6-3 OR 6-4)	1
2	145202	CYLINDER, 3-3/4 X 8, REPHASE (SEE PAGES 6-5 OR 6-6)	1
3	145203	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGES 6-7 OR 6-8)	1
4	145204	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGES 6-9 OR 6-10)	1
5	246795	ASSY, MANIFOLD DISC ADJ 2431	1
6	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
7	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	4
8	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
9	141826	ELBOW 90 1/16 RES	1
10	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	7
11	141828	COUPLER,MALE 3/4-16 O-RING	2
12	246800	HOSE ASSY, 3/8X326 #8JICX#8MOR	2
13	246801	HOSE ASSY, 3/8X260 #8 STR JIC	1
14	71510821	HOSE, .38 X 244 IN.	1
15	231295	HOSE ASSY, 3/8X200,-8FJX,-8FJX	1
16	71508983	HOSE-HYD .38X182	1
17	153621	HOSE ASSY 3/8X212 #8 JIC SWIV	1
18	155530	HOSE WRAP, BLACK 1" ID X 8"	1

Manifold Assembly 246765

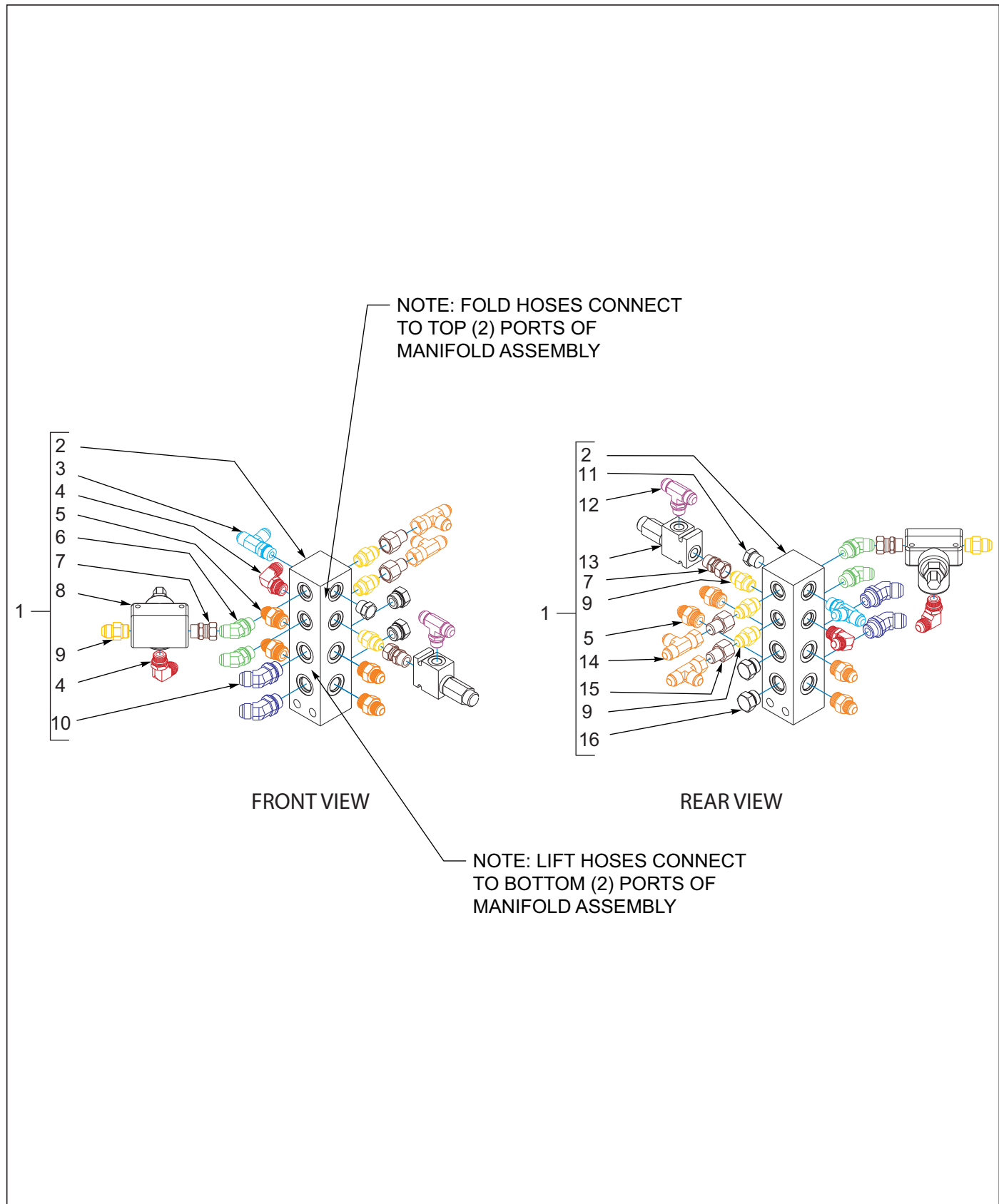


Figure 5-4: Manifold Assembly 246765

Manifold Assembly 246765

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	246765	ASSY, MANIFOLD LIFT/FOLD	1
2	236050	MANIFOLD HYD,8-3/4,8-7/8 PORT	1
3	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
4	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	2
5	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	4
6	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	2
7	102-1130	FTG,STR 8M ORING X 8F JIC SW	2
8	165287	VALVE, RELIEF, 1000PSI	1
9	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	4
10	18K7	ELBOW 45 .875-14 "O" TO	2
11	1-007-010025	PLUG, 3/4-16 O-RING BOSS	1
12	203003-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
13	193149	VALVE,RELIEF PILOT OP W/REV CK	1
14	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
15	127806	ADAPTER,HYD,-8JIC W/3/32RESTR	2
16	900598-10S	PLUG, O-RING BOSS #10	2

Cylinders

Cylinder Assembly 4-1/2 x 16, Rephase

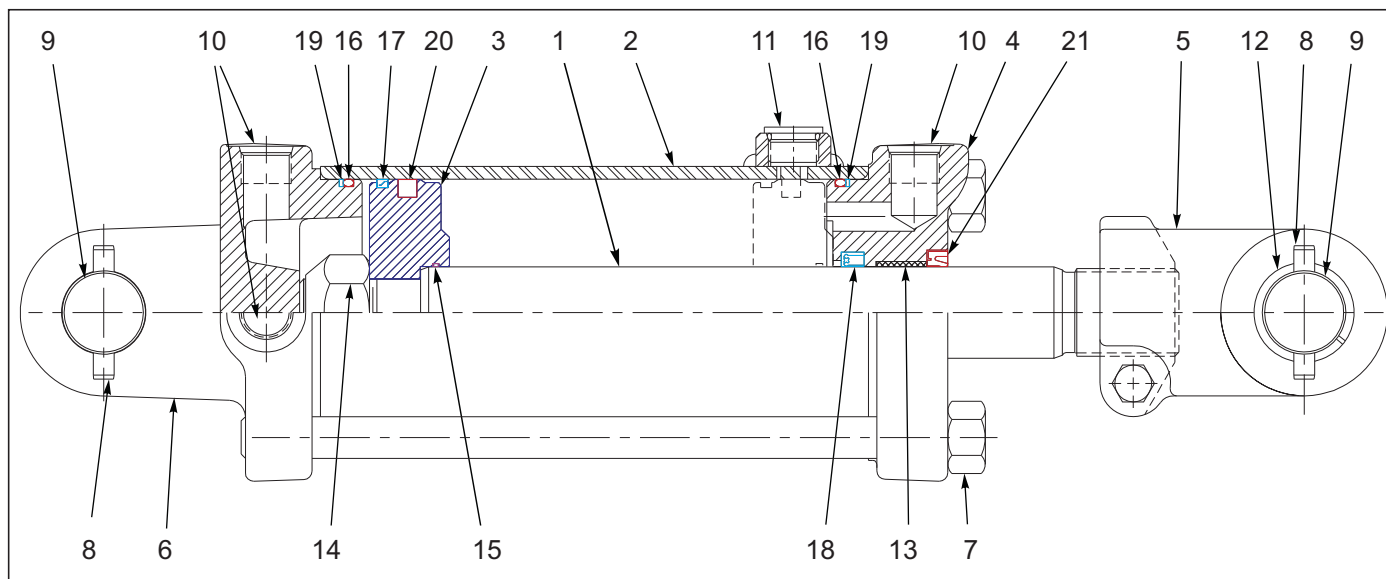


Figure 6-1: Cylinder Assembly 4-1/2 x 16, Rephase

Cylinder Assembly 4-1/2 x 16, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	146824	CYLINDER, 4-1/2 X16, REPHASE	
1	-----	PISTON ROD	1
2	-----	TUBE ASSY	1
3	-----	PISTON	4
4	103153	GLAND ASSY	1
5	137304	CLEVIS ASSY	1
6	148104	BUTT CLEVIS	1
7	-----	TIEROD ASSY	4
8	111789	ROLL PIN	4
9	147755	CLEVIS PIN	2
10	-----	PORT PLUG	3
11	-----	PORT PLUG	1
12	135912	BUSHING	2
13	137702	DU BUSHING	1
14	-----	LOCKNUT	1
15	-----	O-RING	1
16	-----	O-RING	2
17	-----	BEARING RING	1
18	-----	U-CUP	1
19	-----	BU-WASHER	2
20	-----	TEFLON SEAL	1
21	-----	WIPER	1
22	148106	SEAL KIT (NOT SHOWN) (INCLUDES ITEMS 15 - 21)	

Cylinder Assembly 4 x 16, Rephase

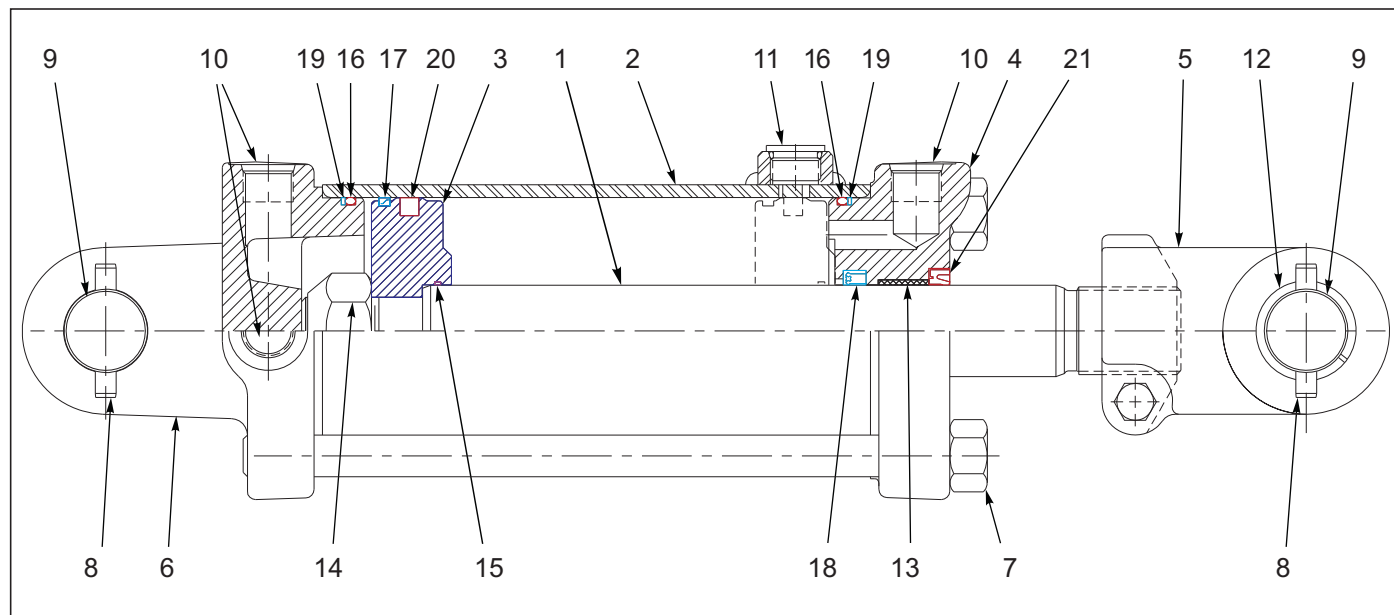


Figure 6-2: Cylinder Assembly 4 x 16 Rephase

Cylinder Assembly 4 x 16, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	146825	CYLINDER, 4X16, REPHASE	--
1	----	PISTON ROD	1
2	----	TUBE ASSY	1
3	----	PISTON	1
4	142109	GLAND ASSY	1
5	148097	CLEVIS ASSY	1
6	142119	BUTT CLEVIS	1
7	----	TIEROD ASSY	4
8	111789	ROLL PIN	4
9	147755	CLEVIS PIN	2
10	----	PORT PLUG	3
11	----	PORT PLUG	1
12	135912	BUSHING	2
13	141301	DU BUSHING	1
14	----	LOCKNUT	1
15	----	O-RING	1
16	----	O-RING	2
17	----	BEARING RING	1
18	----	U-CUP	1
19	----	BU-WASHER	2
20	----	TEFLON SEAL	1
21	----	WIPER	1
22	148100	SEAL KIT (NOT SHOWN) (INCLUDES ITEMS 15 - 21)	--

Cylinder Assembly 4 x 8, Rephase (Prince)

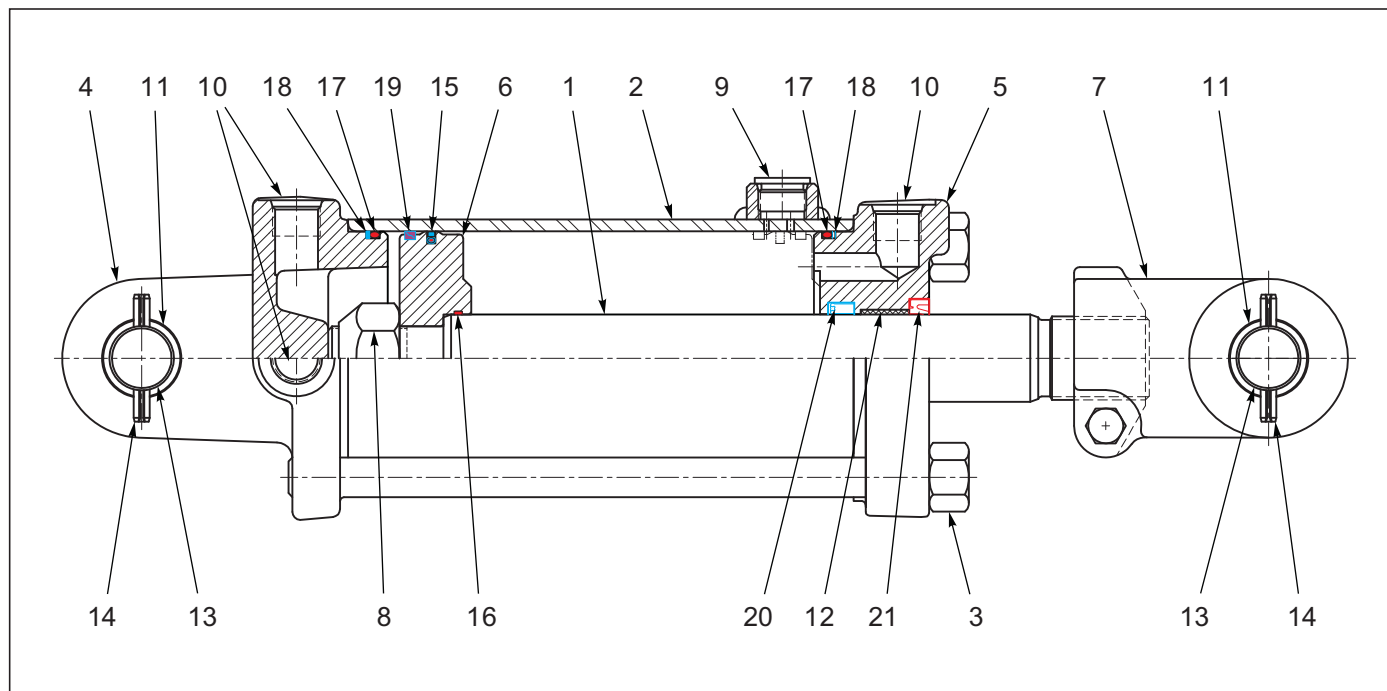


Figure 6-3: Cylinder Assembly 4 x 8, Rephase (Prince)

Cylinder Assembly 4 x 8, Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145201	CYLINDER 4 X 8 REPHASE	
1	----	ROD, PISTON	1
2	----	TUBE ASSY	1
3	----	TIEROD ASSY	4
4	142114	BUTT CLEVIS ASSY	1
5	142109	GLAND ASSEMBLY	1
6	----	PISTON	1
7	142110	CLEVIS ASSY	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	1
10	----	SHIPPING PLUG	3
11	142112	BUSHING	4
12	141301	BUSHING	1
13	143994	CLEVIS PIN	2
14	111789	ROLL PIN	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	2
18	----	BU- WASHER	2
19	----	BEARING RING	1
20	----	U- CUP	1
21	----	CANNED WIPER	1
22	147745	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-21)	

Cylinder Assembly 4 x 8, Rephase (Midway)

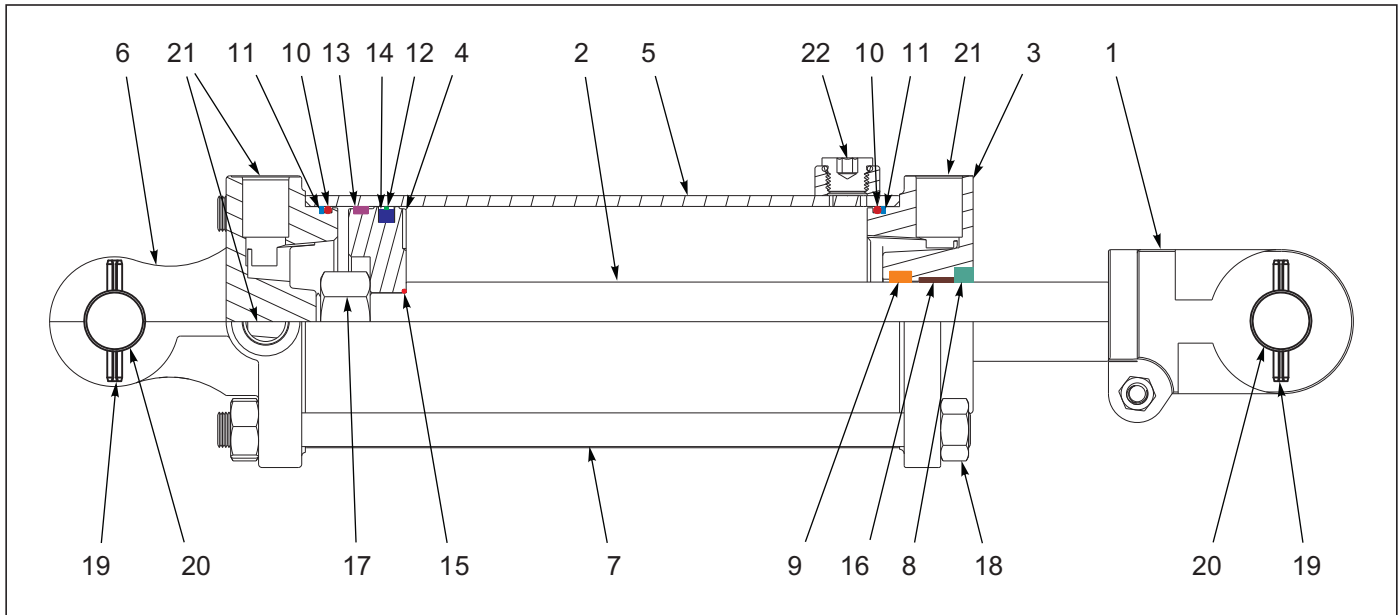


Figure 6-4: Cylinder Assembly 4 x 8, Rephase (Midway)

Cylinder Assembly 4 x 8, Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145201M	CYLINDER, 4 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	----	ROD	1
3	229560	GLAND, 4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	231804	BUTT CLEVIS-ADI, 4" BORE, MIDWAY	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	1-647-010004221	PIN, SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	229561	PACKING KIT, 4" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-15)	

Cylinder Assembly 3-3/4 x 8, Rephase (Prince)

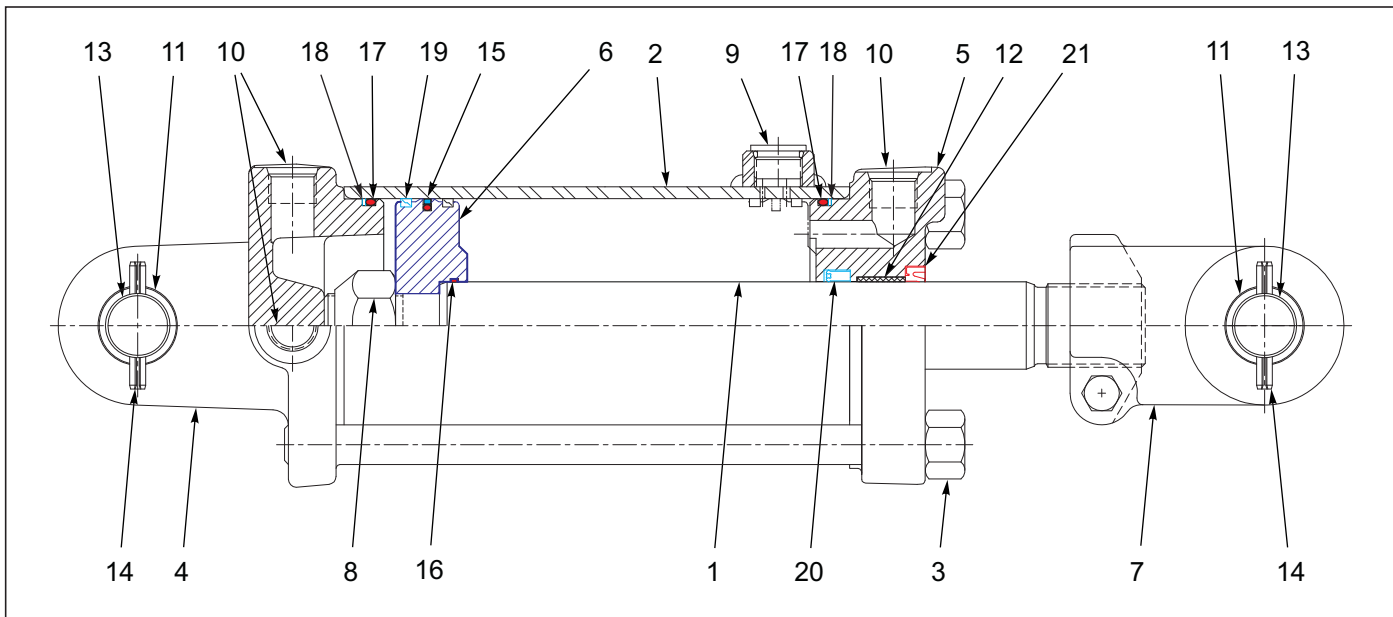


Figure 6-5: Cylinder Assembly 3-3/4 x 8, Rephase (Prince)

Cylinder Assembly 3-3/4 x 8, Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145202	CYLINDER 3-1/2 X 8 REPHASE	
1	----	ROD, PISTON	1
2	----	TUBE ASSY	1
3	----	TIEROD ASSY	4
4	142116	BUTT CLEVIS ASSY	1
5	111871	GLAND ASSEMBLY	1
6	----	PISTON	1
7	142110	CLEVIS ASSY	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	1
10	----	SHIPPING PLUG	3
11	142112	BUSHING	4
12	141301	BUSHING	1
13	143994	CLEVIS PIN	2
14	111789	ROLL PIN	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	2
18	----	BU- WASHER	2
19	----	BEARING RING	1
20	----	U- CUP	1
21	----	CANNED WIPER	1
22	147748	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-21)	

Cylinder Assembly 3-3/4 x 8, Rephase (Midway)

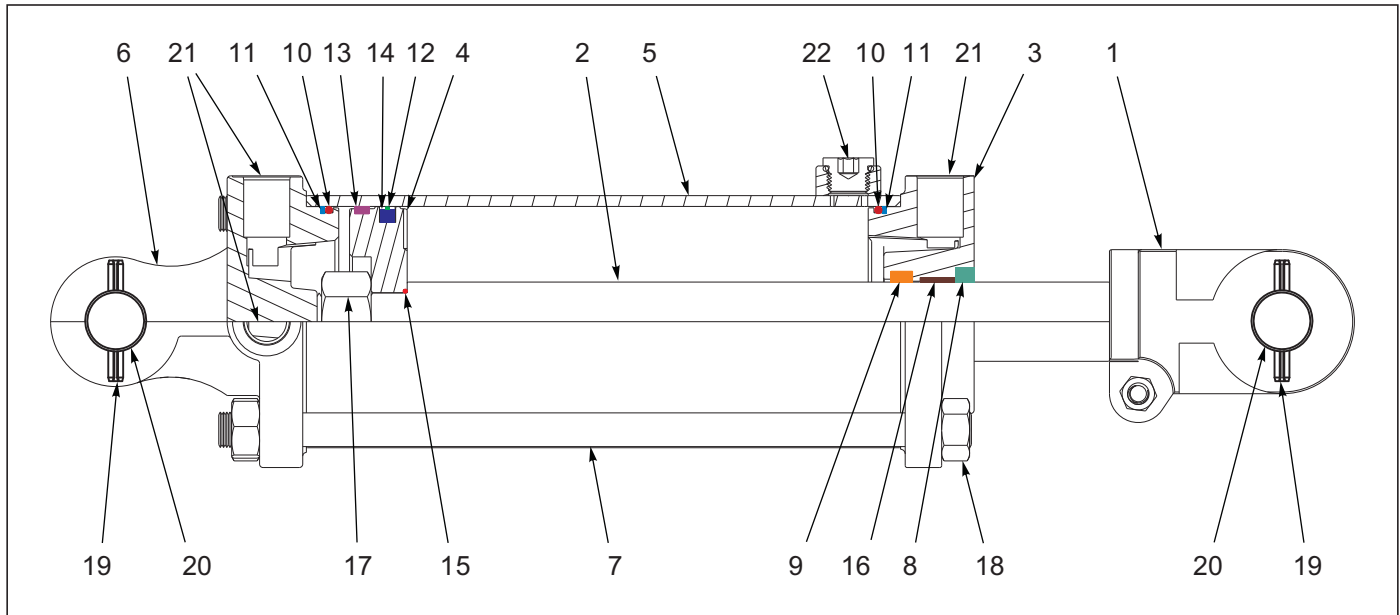


Figure 6-6: Cylinder Assembly 3-3/4 x 8, Rephase (Midway)

Cylinder Assembly 3-3/4 x 8, Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145202M	CYLINDER, 3-3/4 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	----	ROD	1
3	231802	GLAND, 3-3/4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	234415	BUTT CLEVIS-ADI, 4" BORE, MIDWAY	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	1-647-010004221	PIN, SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	231803	PACKING KIT, 3-3/4" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 3-1/2 x 8, Rephase (Prince)

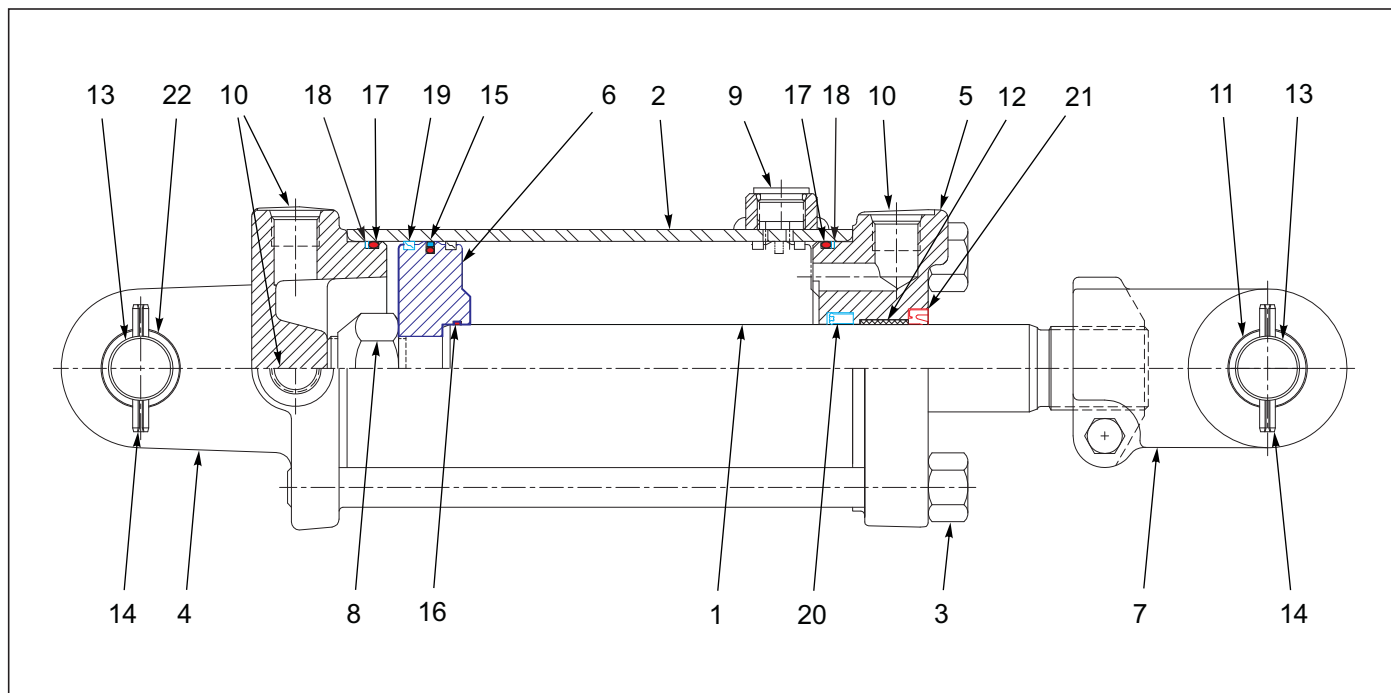


Figure 6-7: Cylinder Assembly 3-1/2 x 8, Rephase (Prince)

Cylinder Assembly 3-1/2 x 8, Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145203	CYLINDER 3-1/2 X 8 REPHASE	
1	----	ROD, PISTON	
2	----	TUBE ASSEMBLY	
3	----	TIEROD ASSEMBLY	
4	218643	BUTT CLEVIS ASSEMBLY	
5	148085	GLAND ASSEMBLY	
6	----	PISTON	
7	148087	CLEVIS ASSEMBLY	
8	----	LOCKNUT	
9	----	SHIPPING PLUG	
10	----	SHIPPING PLUG	
11	148088	BUSHING	
12	125566	BUSHING	
13	143994	CLEVIS PIN	
14	111789	ROLL PIN	
15	----	TEFLON SEAL	
16	----	O- RING	
17	----	O- RING	
18	----	BU- WASHER	
19	----	BEARING RING	
20	----	U- CUP	
21	----	CANNED WIPER	
22	142112	BUSHING	
23	148089	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-21)	

Cylinder Assembly 3-1/2 x 8, Rephase (Midway)

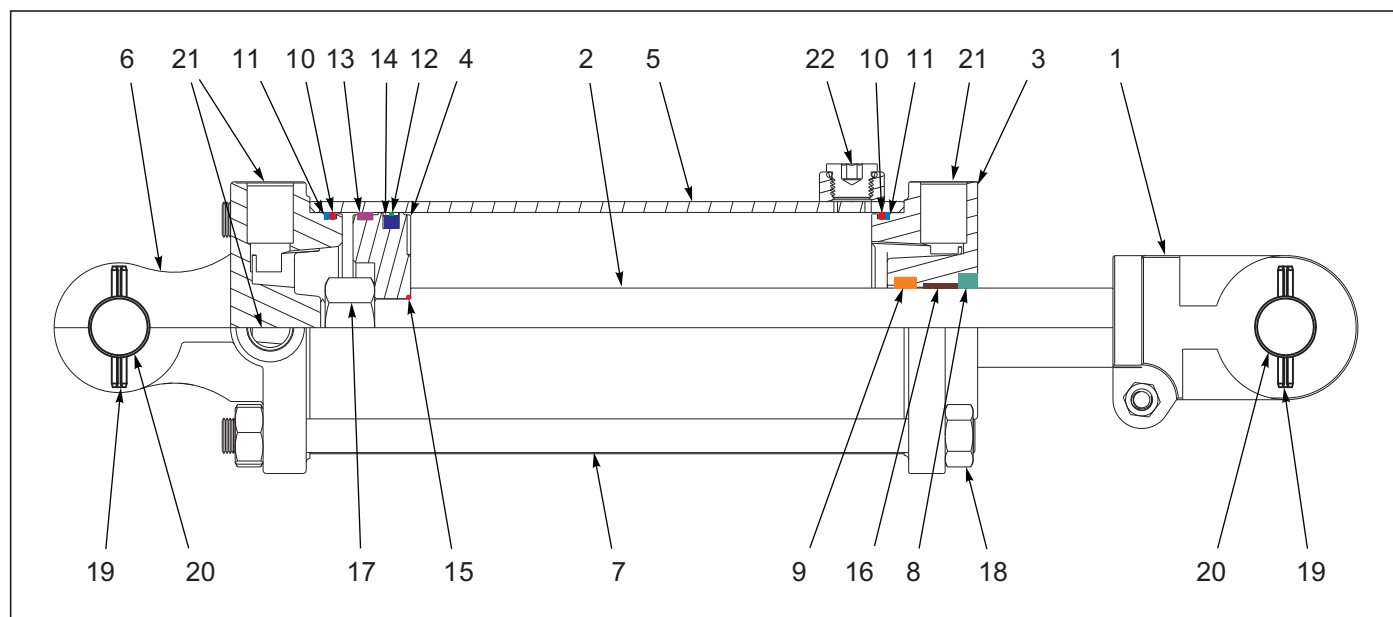


Figure 6-8: Cylinder Assembly 3-1/2 x 8, Rephase (Midway)

Cylinder Assembly 3-1/2 x 8, Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145203M	CYLINDER, 3-1/2 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	----	ROD	1
3	234417	GLAND, 3-1/2" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	234416	BUTT CLEVIS-ADI, 3-1/2" BORE	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	234418	PACKING KIT,3-1/2" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 3-1/4 x 8, Rephase (Prince)

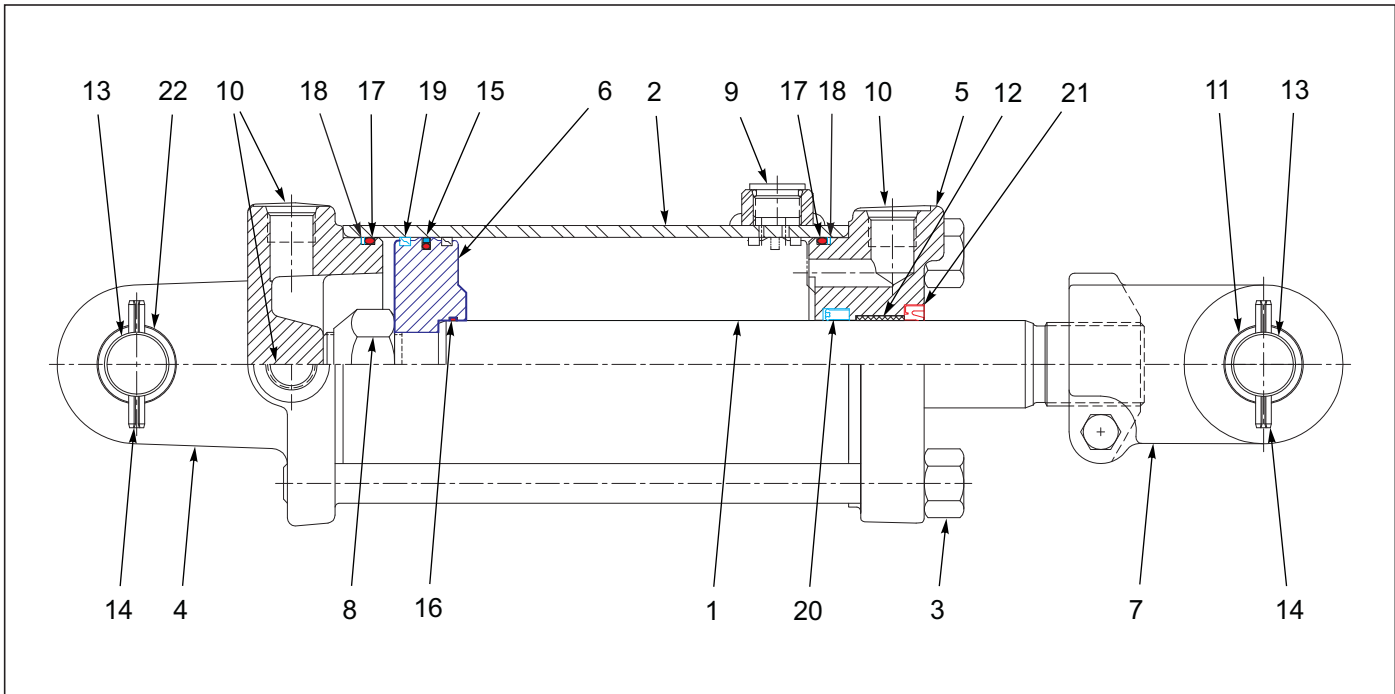


Figure 6-9: Cylinder Assembly 3-1/4 x 8, Rephase (Prince)

Cylinder Assembly 3-1/4 x 8, Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145204	CYLINDER 3-1/4 X 8 REPHASE	
1	-----	ROD, PISTON	1
2	-----	TUBE ASSEMBLY	1
3	-----	TIEROD ASSEMBLY	4
4	218642	BUTT CLEVIS ASSEMBLY	1
5	148092	GLAND ASSEMBLY	1
6	-----	PISTON	1
7	148087	CLEVIS ASSEMBLY	1
8	-----	LOCKNUT	1
9	-----	SHIPPING PLUG	1
10	-----	SHIPPING PLUG	3
11	148088	BUSHING	2
12	125566	BUSHING	1
13	143994	CLEVIS PIN	2
14	111789	ROLL PIN	4
15	-----	TEFLON SEAL	1
16	-----	O- RING	1
17	-----	O- RING	2
18	-----	BU- WASHER	2
19	-----	BEARING RING	1
20	-----	U- CUP	1
21	-----	CANNED WIPER	1
22	142112	BUSHING	2
23	148094	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-21)	

Cylinder Assembly 3-1/4 x 8, Rephase (Midway)

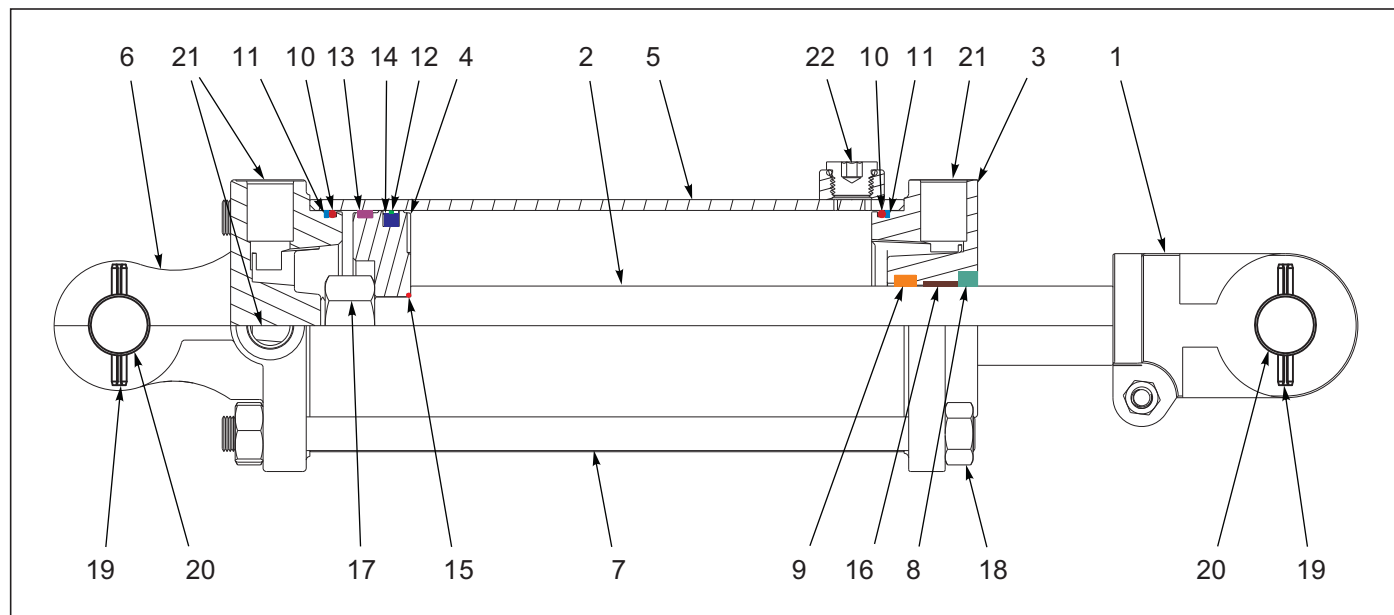


Figure 6-10: Cylinder Assembly 3-1/4 x 8, Rephase (Midway)

Cylinder Assembly 3-1/4 x 8, Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145204M	CYLINDER, 3-1/4 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	----	ROD	1
3	234420	GLAND, 3-1/4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	234419	BUTT CLEVIS-ADI, 3-1/4" BORE	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	234421	PACKING KIT,3-1/4" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 4 x 30 (Prince)

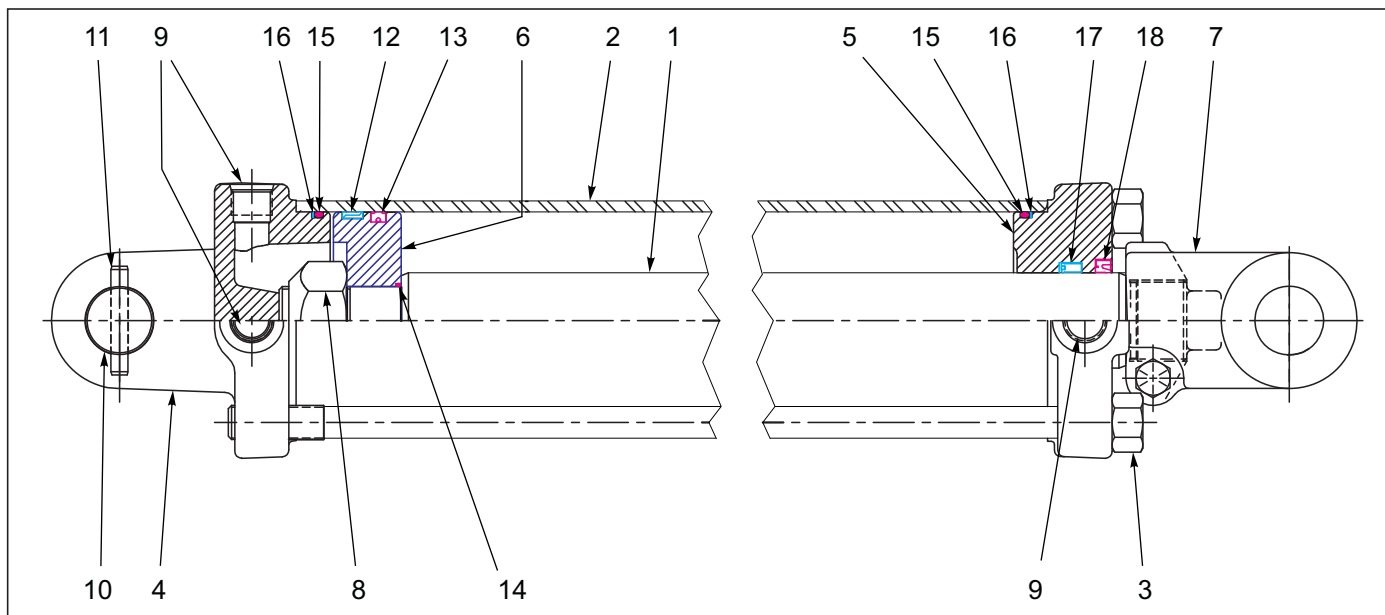


Figure 6-11: Cylinder Assembly 4 x30 (Prince)

Cylinder Assembly 4 x 30 (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140472	CYLINDER 4X30 1-1/2 ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	4
4	142119	BUTT CLEVIS ASSY	1
5	142120	GLAND	1
6	----	PISTON	1
7	100000328	CLEVIS ASSY	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	3
10	111880	CLEVIS PIN	1
11	111789	ROLL PIN	2
12	----	BEARING RING	1
13	----	CROWN SEAL	1
14	----	O- RING	1
15	----	O- RING	2
16	----	BU- WASHER	2
17	----	U- CUP	1
18	----	CANNED WIPER	1
19	142113	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 12-18)	

Hydraulic Cylinder 4 X 30 (Midway)

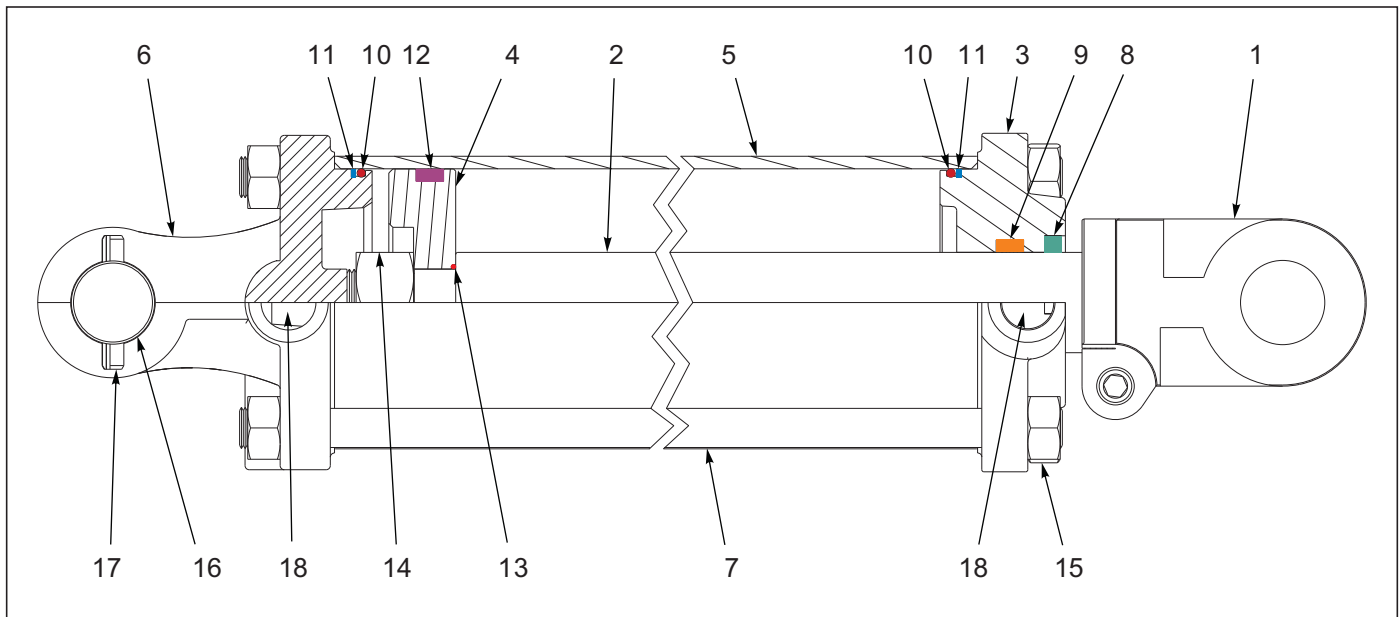


Figure 6-12: Cylinder Assembly 4 x30 (Midway)

Hydraulic Cylinder 4 X 30 (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140472M	CYLINDER, 4 X 30, 1-1/2 ROD	
1	226605	ROD CLEVIS, $\varnothing$ 1-1/4 PIN, MIDWAY	1
2	----	ROD	1
3	234423	GLAND, 4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	234422	BUTT CLEVIS, 4" BORE, MIDWAY	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	CROWN SEAL	1
13	----	O- RING	1
14	----	PISTON NUT	1
15	----	TIEROD NUT	8
16	226589	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	1
17	147072	PIN, SPRING SLOTTED 5/16 X 2	1
18	----	HEX PLUG	2
19	234424	PACKING KIT, 4" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-13)	

Cylinder Assembly 1-1/2 x 1-1/2

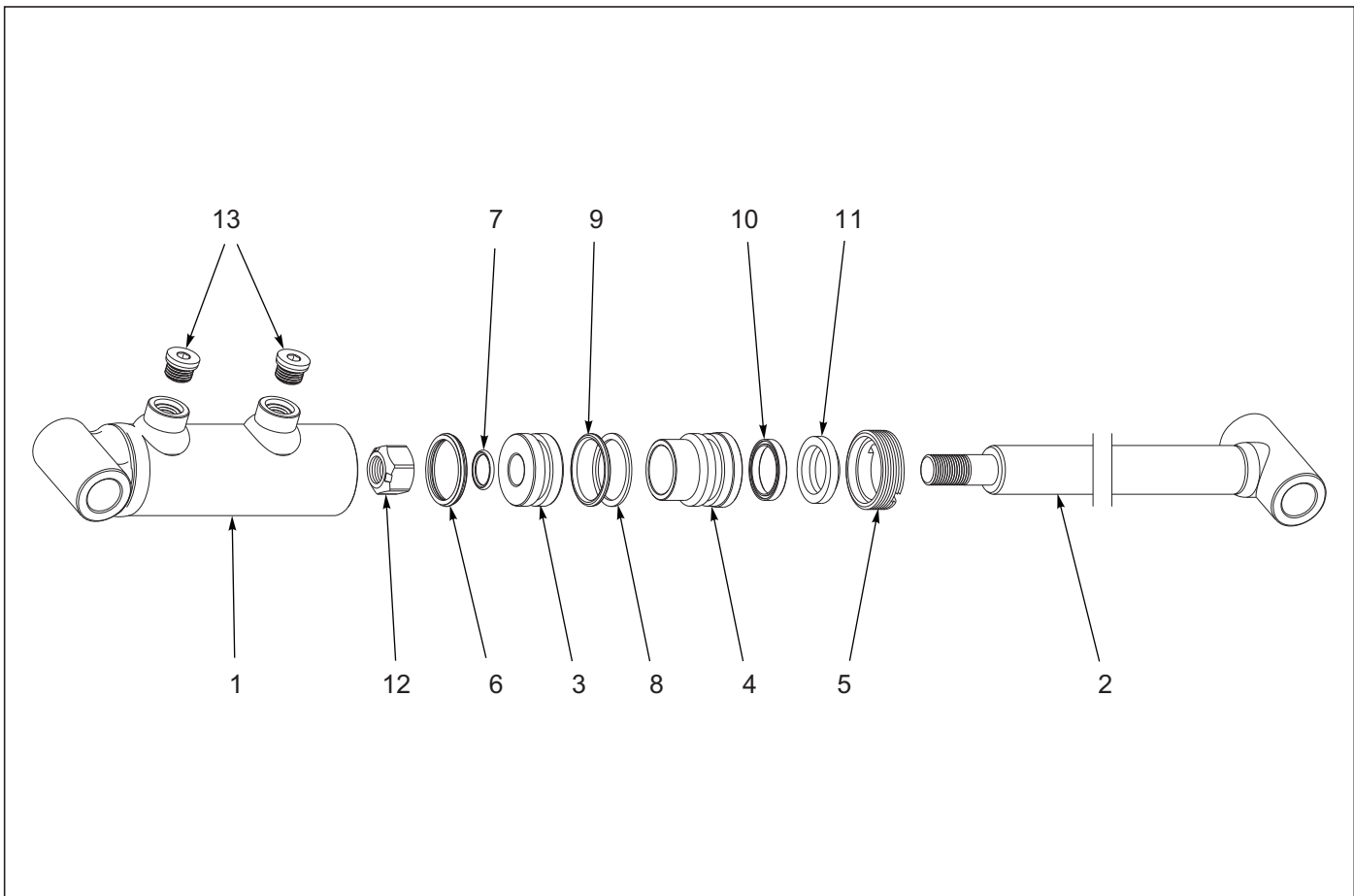


Figure 6-13: Cylinder Assembly 1-1/2 x -1-1/2

Cylinder Assembly 1-1/2 x 1-1/2

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	230890	CYLINDER,1-1/2X1-1/2,3000PSI	
1	--	1-1/2" BARREL ASSY	1
2	--	1" ROD ASSY	1
3	--	PISTON	1
4	--	BEARING	1
5	--	RETAINER	1
6	--	CROWN SEAL	1
7	--	ID O-RING	1
8	--	OC BACKUP	1
9	--	OD O-RING	1
10	--	POLY-U	1
11	--	1" D-STYLE WIPER	1
12	--	LOCKNUT 5/8"	1
13	--	9/16 SAE PLUG	2
14	240161	KIT, SEAL, 230890 CYL (NOT SHOWN) (INCL. ITEMS 6-11 - 14)	

Cylinder Assembly 2-1/2 x 3-1/2

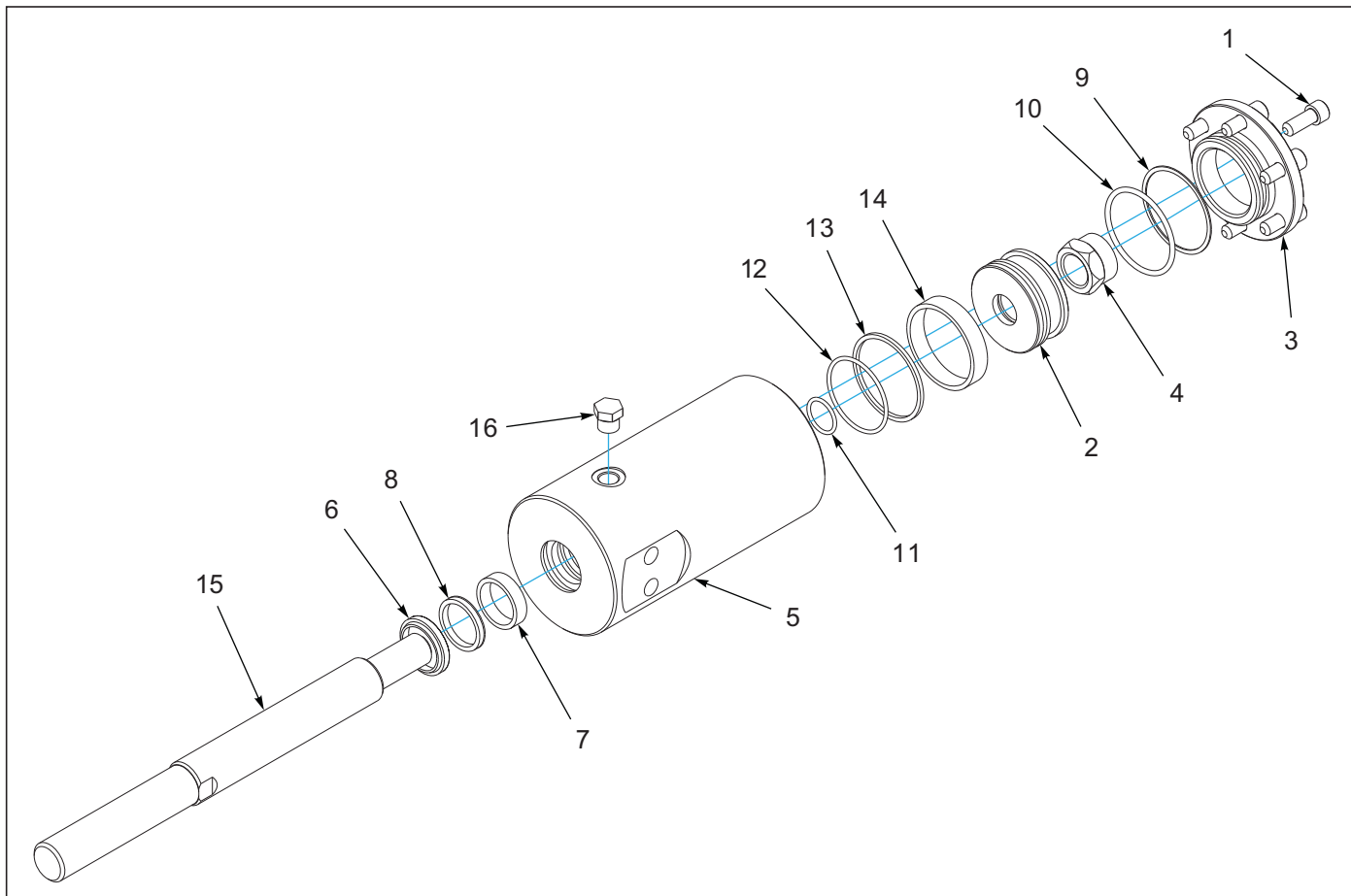


Figure 6-14: Cylinder Assembly 2-1/2 x 3-1/2

Cylinder Assembly 2-1/2 x 3-1/2

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS	
1	----	SCREW, HEX SOCKET 3/8-16 X 1	6
2	171079	PISTON, 2-1/2 BORE	1
3	171080	2-1/2" BASE CAP	1
4	----	NUT, HEX SLFLKG 7/8-14 GRC	1
5	185767	CYLINDER, BARREL 3-1/2" STROKE	1
6	----	WIPER, 1-1/4 ROD	1
7	----	WEAR RING, 1-1/4 ROD	1
8	----	U-CUP, 1-1/4 ROD	1
9	----	BACK-UP RING, CAP	1
10	----	O-RING, CAP	1
11	----	O-RING, PISTON	1
12	----	O-RING, PISTON	1
13	----	SEAL, 2-1/2 PISTON	1
14	----	WEAR RING, 2-1/2 PISTON	1
15	206674	ROD 1-1/4 DIA 3-1/2 STROKE	1
16	----	PLUG, O-RING 9/16-18	2
17	171081	SEAL KIT, 2-1/2" BORE CYL (NOT SHOWN) (INCL. ITEMS 7 - 14)	

Electrical

Electrical Assembly W/LED Lights Wiring Chart

7-PIN CONN.	4-PIN TOWER	CIRCUIT	WIRE COLOR
1	D	GROUND	WHITE 
2	–	WORK LAMPS	BLACK 
3	B	LEFT FLASHING & TURN	YELLOW 
4	–	STOP LAMPS	RED 
5	A	RIGHT FLASHING & TURN	GREEN 
6	C	TAIL LAMPS	BROWN 
7	–	SWITCHED POWER (12 V)	BLUE 

MAIN WARNING LIGHT HARNESS - WIRING CHART

(NOTE: The Color Of The Wire Jacket Does Not Necessarily Match The Color Of The 7 Pin Connector)

	RIGHT AMBER	RIGHT RED		LEFT RED	LEFT AMBER
	2-PIN TOWER	3-PIN TOWER	6-PIN SHROUD	3-PIN TOWER	2-PIN TOWER
 BLACK LEFT TURN			A	C	
 WHITE GROUND	A	A	B	A	A
 BROWN TAIL LIGHT		B	C	B	
 YELLOW LEFT TURN			D		B
 GREEN RIGHT TURN	B		E		
 RED RIGHT TURN		C	F		

REAR WARNING LIGHT HARNESS - WIRING CHART

Figure 7-1: Electrical Assembly W/LED Lights Wiring Chart

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Electrical Assembly W/LED Lights

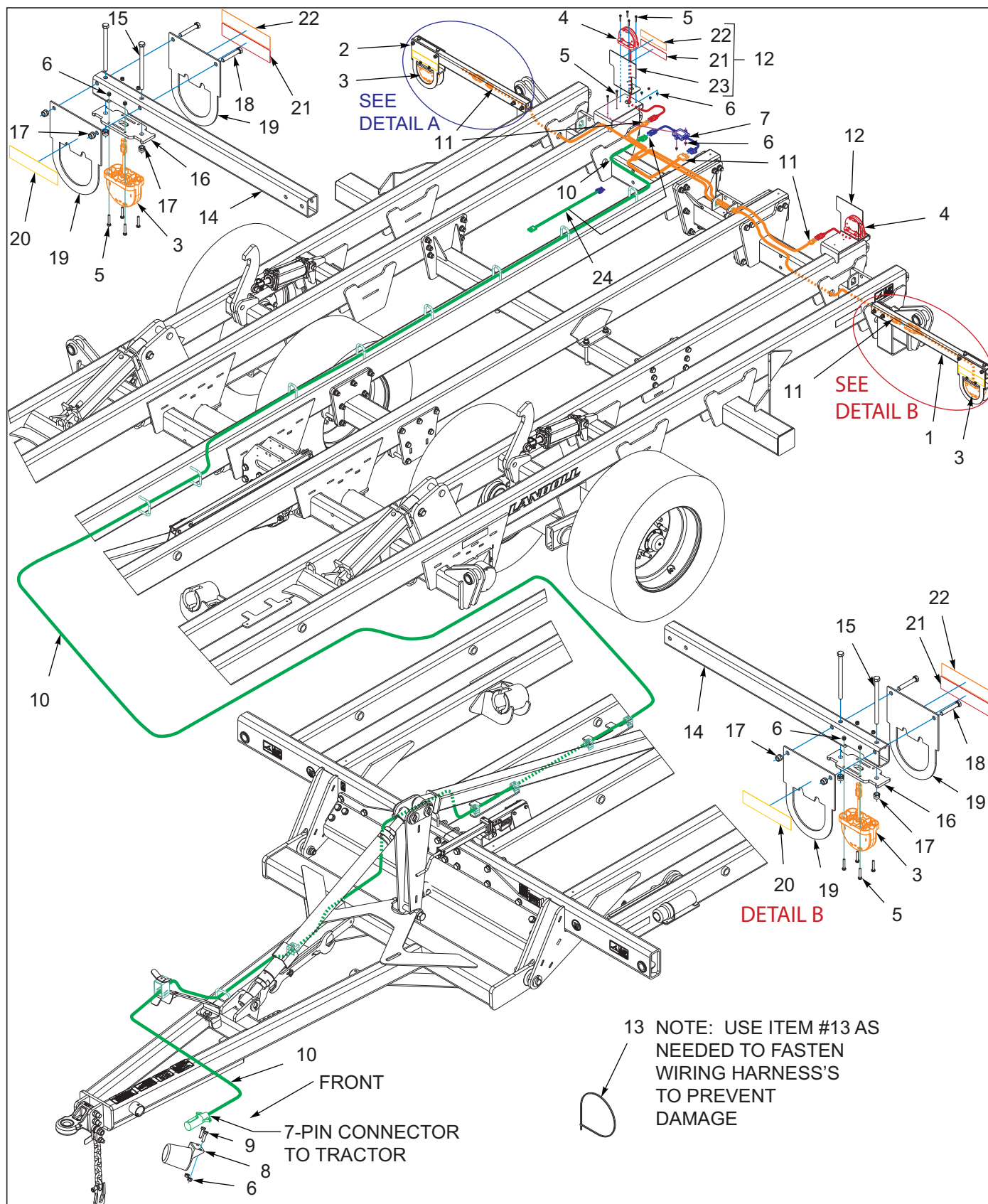


Figure 7-2: Electrical Assembly W/LED Lights

Electrical Assembly W/LED Lights

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	245204	MOUNT, LT LIGHT BKT (INCLUDES ITEMS 14 THRU 22)	1
2	245205	MOUNT, RT LIGHT BKT (INCLUDES ITEMS 14 THRU 22)	1
3	174436	LAMP, AG AMBER SINGLE LED	2
4	174435	LAMP, AG RED SINGLE LED	2
5	1-654-010047-08	SCREW HX CP,1/4-20UNCX1-1/2G5	18
6	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	20
7	174437	MODULE, AG FLASHER CONTROL	1
8	2-368-010287	HARNESS, STOR-A-WAY (SEE PAGE 2-1)	1
9	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
10	174438	HARNESS, MAIN WARNING LIGHTS	1
11	174439	HARNESS, REAR WARNING LIGHTS	1
12	164140	REFLECTOR ASSY (INCLUDES ITEMS 21-23)	2
13	105874	TIE,STRAP PLSTC 21.5-24X.301	25
14	245203	TUBE, LIGHT ARM 40"	2
15	1-654-010055-19	SCREW,HEX CAP,1/2-13UNCX7 GR5	4
16	229933	PLATE, LIGHT MOUNT	2
17	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
18	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	2
19	227303	PLATE, LIGHT BRACKET	4
20	528934	REFLECTOR - YELLOW	2
21	528933	REFLECTOR - RED	2
22	528938	STRIPE, ORANGE	2
23	164139	MOUNT, REFLECTOR	2
24	2-368-010273	HARNESS, 34 INCH EXT	2

Decals

Decals

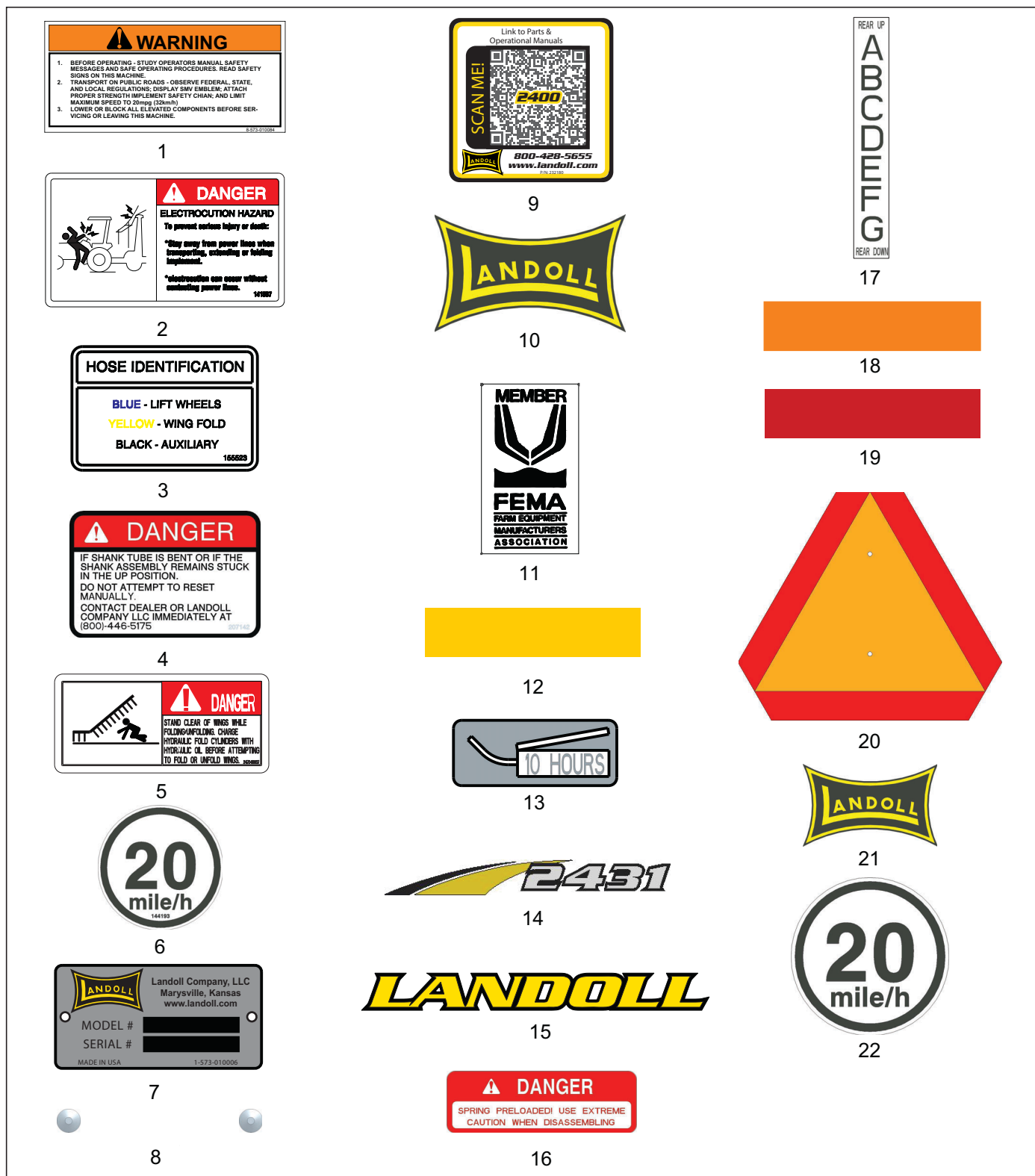


Figure 8-1: Decals

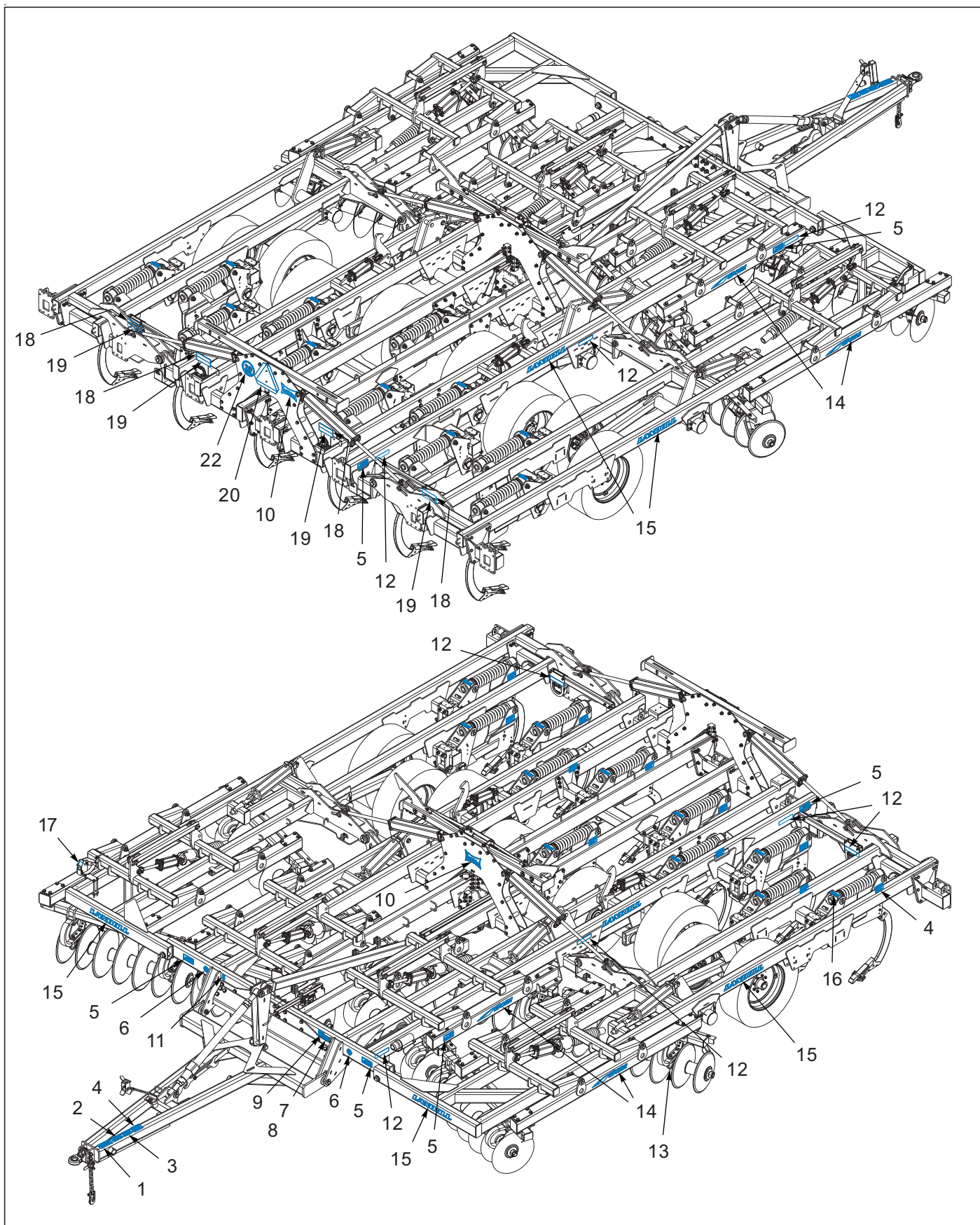


Figure 8-2: Decal Installation 2411AFG-07-09

Decals

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	8-573-010084	DECAL WARNING BEFORE OPERATG	1
2	141597	DECAL, DANGER ELECTROCUTION	1
3	155523	DECAL, HOSE IDENTIFICATION	1
4	207142	DECAL, DANGER STUCK SHANK (QTY. 1 HITCH, QTY. 1 ON SIDE OF EACH SHANK ASSEMBLY, QTY 1 FRONT OF HITCH)	12
5	2-573-010037	DECAL, DANGER, WING	6
6	144193	DECAL, SIS 20 MPH	2
7	1-573-010006	PLACARD, NAME	1
8	156010	RIVET, BLIND .156X1/2 GRIP	2
9	232180	DECAL, QR CODE 2400 SERIES	1
10	144351	DECAL, BLACK BOW-TIE	1
11	2-573-010198	DECAL, MEMBER FEMA	1
12	528934	REFLECTOR - YELLOW	12
13	2-573-010330-02	DECAL, LUBRICATION 10 HOURS (QTY. 1 ON TOP OF EACH DISC BEARING MOUNT ASSEMBLY)	11
14	246699	DECAL, 2431	4
15	141260	DECAL, LANDOLL	4
16	2-573-010469	DECAL, DANGER SPRING (QTY. 1 ON TOP OF EACH SPRING-CLAMP SHANK ASSEMBLY)	11
17	141263	DECAL, LEVEL INDICATOR	1
18	528938	STRIPE, ORANGE	4
19	528933	REFLECTOR - RED	4
20	70260977	SMV EMBLEM	1
21	141259	DECAL, LANDOLL, YELLOW	1
22	224589	DECAL, SIS 20 MILE/H	1

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Attachments

3BCT W/Hydraulic Chopper Layout

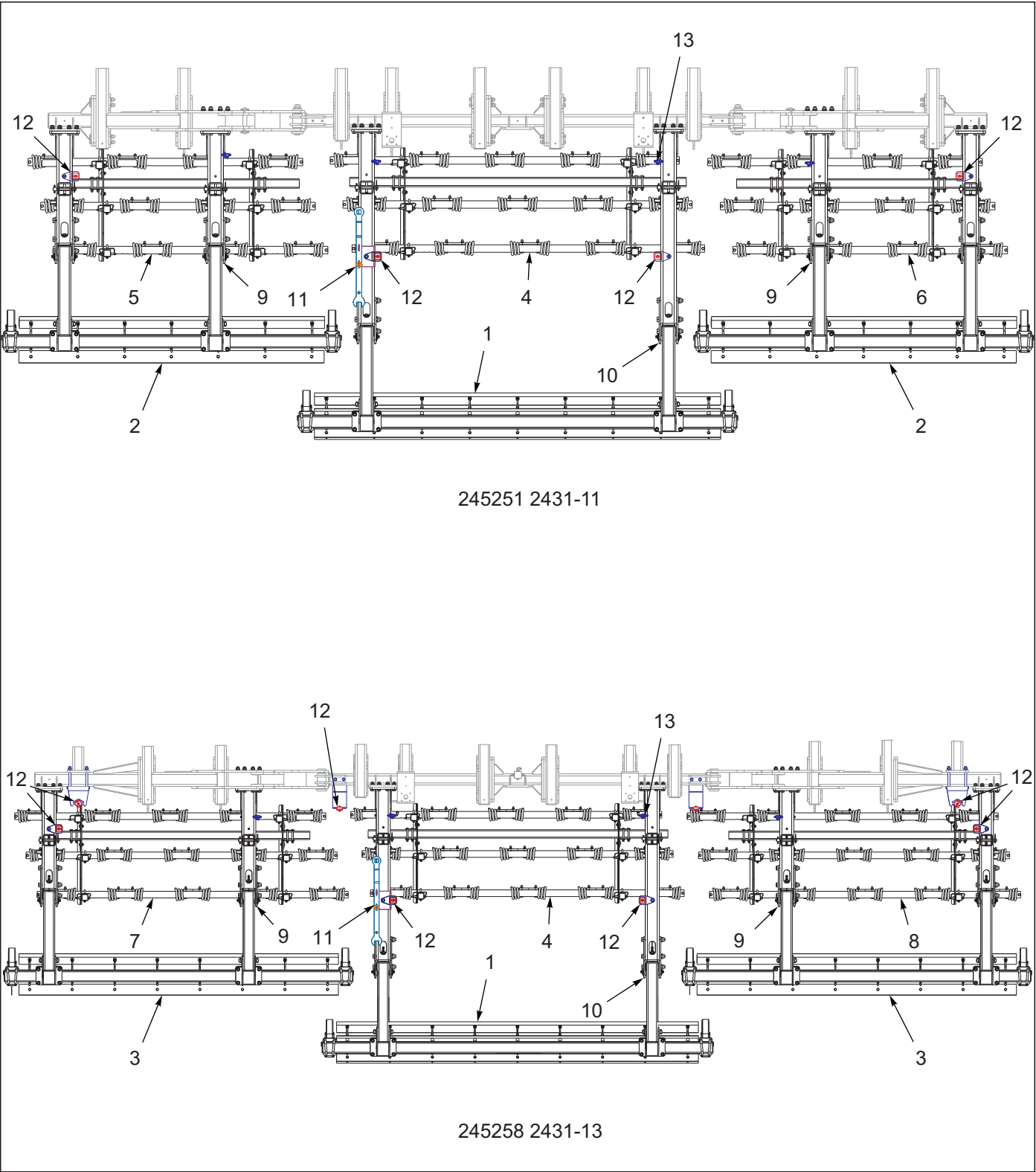


Figure 9-1: 3BCT W/Hydraulic Chopper Layout

3BCT W/Hydraulic Chopper Layout

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245251	3BCT W/HYD CHOPPER 2431-11	*	
--	245258	3BCT W/HYD CHOPPER 2431-13	*	
1	155595	CHOPPER-REEL/GANGBAR ASSY 129" (SEE PAGE 9-11)	1	1
2	172529	REEL/GANGBAR - 97" ASSY (SEE PAGE 9-11)	2	--
3	154410	REEL/GANGBAR ASSY 114"	--	2
4	245267	ASSY, 5 TINE HARROW CTR LONG (SEE PAGE 9-9)	1	1
5	240346	ASSY, 4 TINE HARROW LH (SEE PAGE 9-9)	1	--
6	172477	ASSY, 5 TINE HARROW LH	--	1
7	240345	ASSY, 4 TINE HARROW RH (SEE PAGE 9-9)	1	--
8	202567	ASSY, 5 TINE HARROW RH	--	1
9	223470	ASSY, HARROW ARM SHORT, COMB O(SEE PAGE 9-7)	4	4
10	223469	ASSY, HARROW ARM LONG, COMBO (SEE PAGE 9-3)	2	2
11	-----	HARROW ADJUSTMENT WRENCH ASSEMBLY (SEE PAGE 9-3 and PAGE 9-7)	1	1
12	-----	HOSE CLAMP ASSEMBLY (SEE PAGE 9-3 and PAGE 9-7)	4	4
13	162569	TEE, #6 JIC BULKHD RUN, W/NUT (SEE PAGE 9-15)	4	4

Harrow Arm Assembly Combo Hydraulic Long

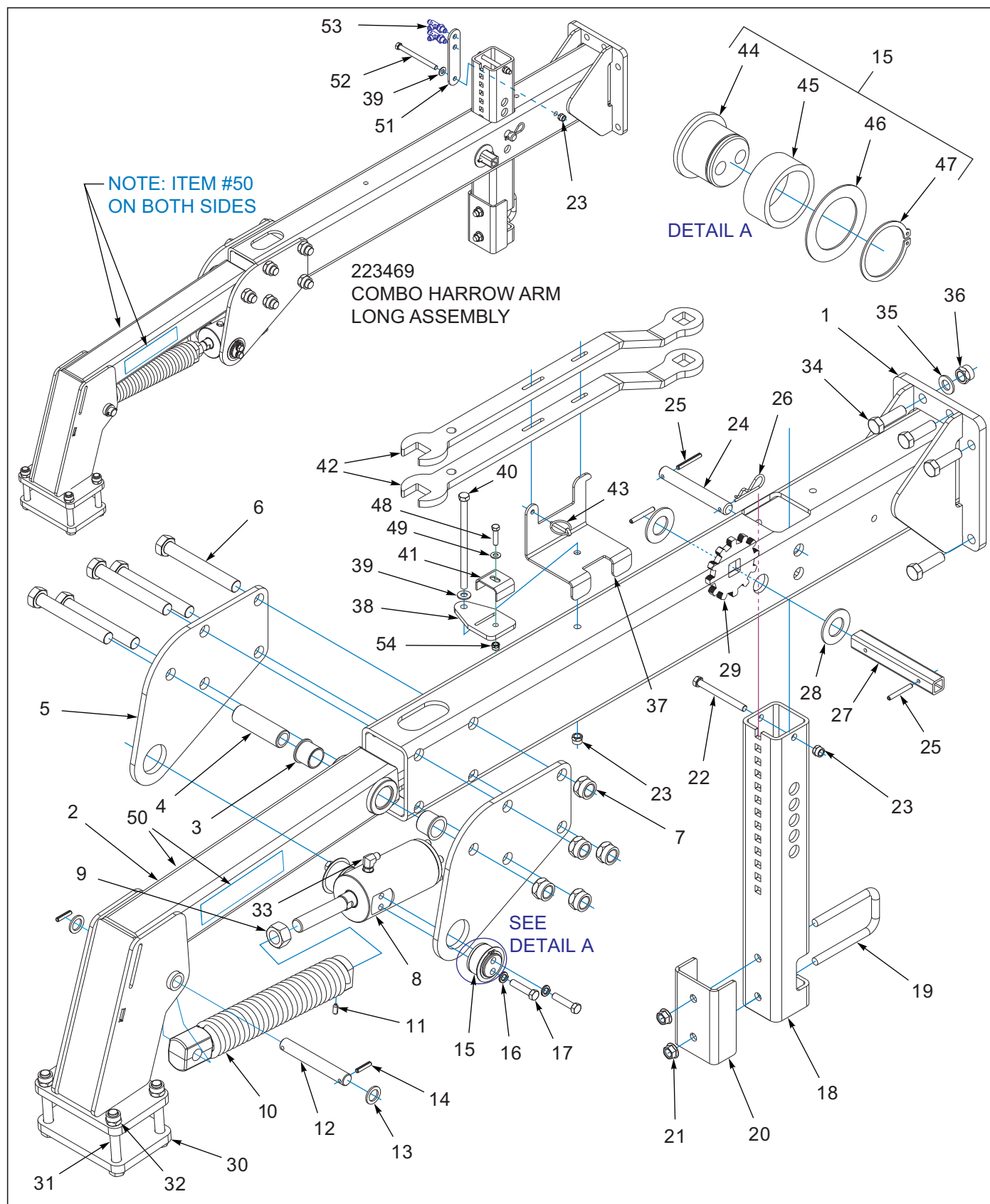


Figure 9-2: Harrow Arm Assembly Combo Hydraulic Long

Harrow Arm Assembly Combo Hydraulic Long

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	223469	ASSY, HARROW ARM LONG, COMBO (INCLUDES ITEMS 1-33)	
1	223468	ARM, COMBO HARROW LONG WLDMT	1
2	170851	ARM WLDMT REEL	1
3	140599	BEARING, FLANGE 1-1/2"	2
4	170852	BUSHING, PIVOT - 5	1
5	223473	PLATE, SPRING MOUNT	2
6	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
7	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	5
8	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-11)	1
9	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
10	206652	SPRING ASSY 17" 1-1/8 THD	1
11	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
12	172526	PIN PIVOT	1
13	117957	MACHINERY BUSHING,ZINC PLATED	2
14	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
15	198321	ASSY, TRUNION MOUNT 1-5/8" (INCLUDES ITEMS 44-47)	2
16	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
17	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
18	170844	TUBE, HARROW ADJ. COMBO ATTACH	1
19	8-102-010043	U-BOLT, SPRING CLAMP	1
20	171427	PLATE, HARROW STIFFNER	1
21	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	1
22	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	1
23	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	3
24	158299	PIN 1X7-5/16	1
25	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	3
26	1-557-010013	PIN, HAIR 3/16 DIA	1
27	170857	TUBE, HARROW HEIGHT ADJ HANDLE	1
28	1-861-010032-32	WASHER FLAT ZP/CD 1-1/2	2
29	170787	GEAR, HARROW ADJUSTMENT	1
30	170862	PLATE, GANGBAR MOUNT	1
31	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
32	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
33	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	1
34	104483	SCREW 3/4-10X2-1/2 HXCP ZPGR8	8
35	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	8
36	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	8
37	229981	MOUNT, WRENCH	1
38	225198	PLATE, HOSE MOUNT	1
39	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	1
40	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	1
41	2-181-010001	HOSE CLAMP	1
42	171394	PLATE, WRENCH HARROW ADJ	2
43	70239854	PIN QUICK HITCH	1
44	188528	TRUNION, CYLINDER	1
45	188531	TRUNION, BEARING	1
46	109895	WASHER,3ODX2-1/16X14GA	1
47	188530	SNAP RING, 2 SHAFT	1
48	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	1

Harrow Arm Assembly Combo Hydraulic Long

ITEM	PART NUMBER	DESCRIPTION	QTY.
49	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	1
50	528934	REFLECTOR - YELLOW	4
51	234845	PLATE, BULKHEAD MOUNT	1
52	1-654-010055-17	SCREW,HEX CAP,1/2-13UNCX6 GR5	1
53	162569	TEE,#6 JIC BULKHD RUN, W/NUT	2
54	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1

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Harrow Arm Assembly Combo Hydraulic Short

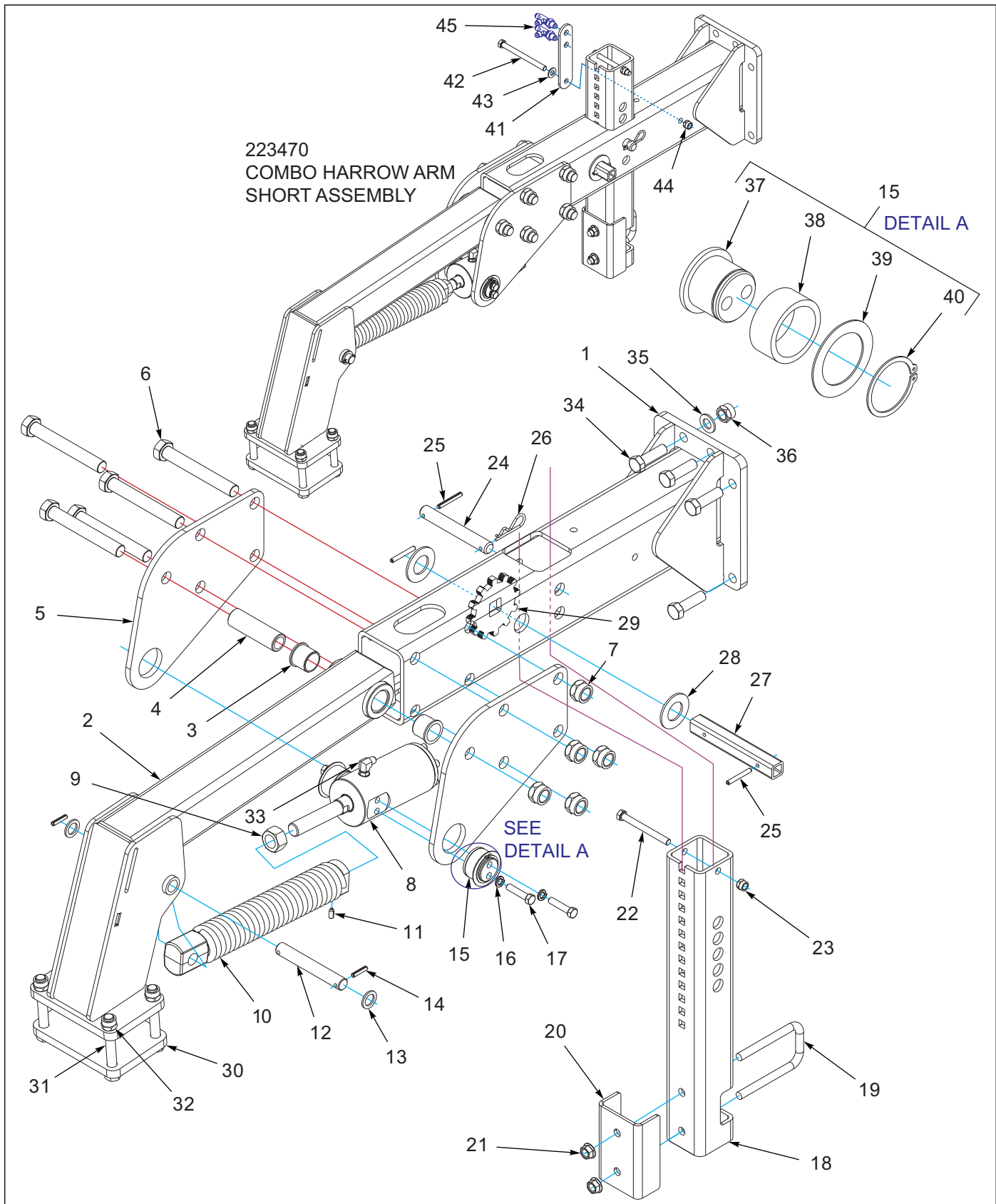
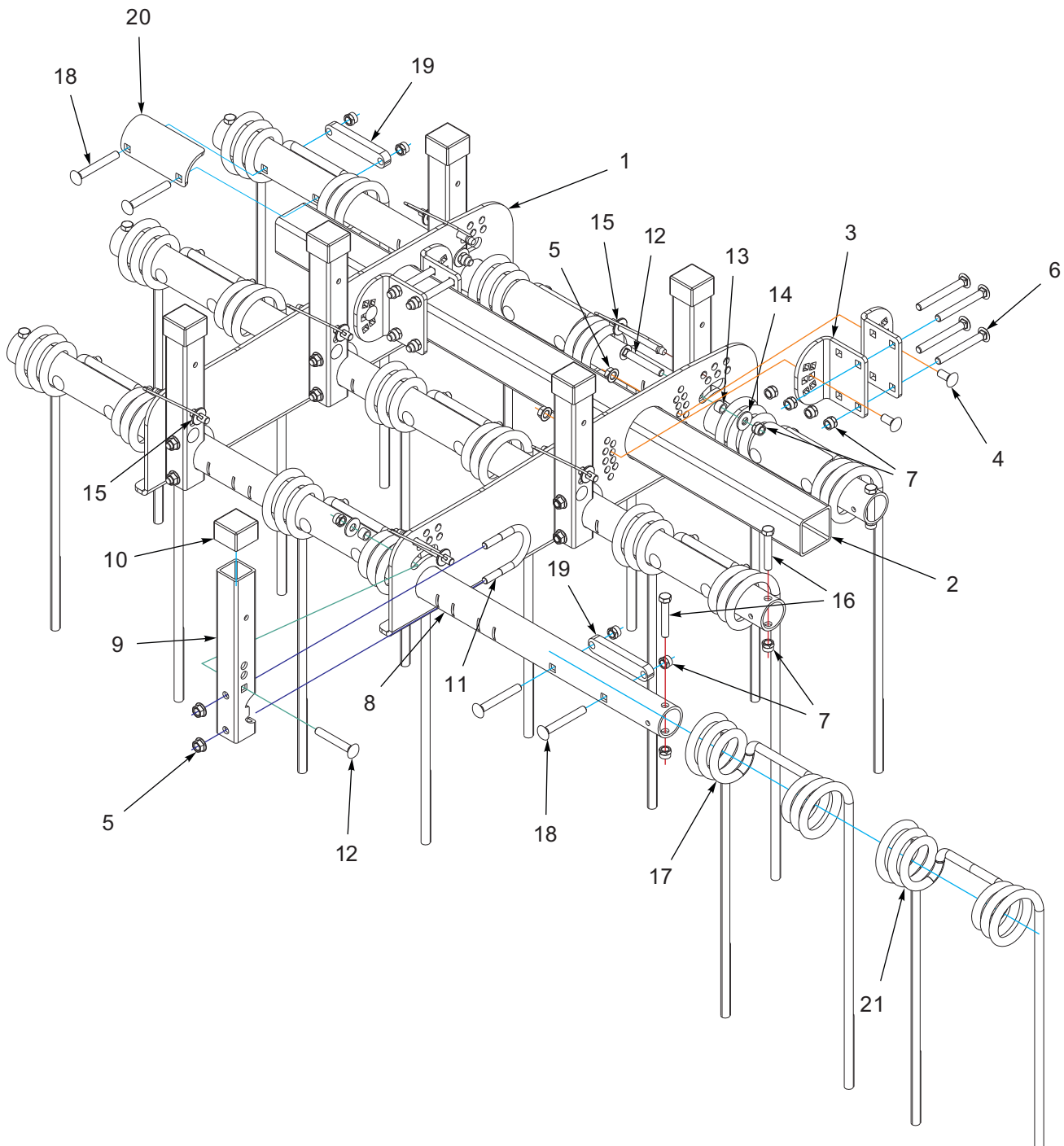


Figure 9-3: Harrow Arm Assembly Combo Hydraulic Short

Harrow Arm Assembly Combo Hydraulic Short

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	223470	ASSY, HARROW ARM SHORT, COMBO (INCLUDES ITEMS 1-33)	
1	223471	ARM, COMBO HARROW WLDMT	1
2	170851	ARM WLDMT REEL	1
3	140599	BEARING, FLANGE 1-1/2"	2
4	170852	BUSHING, PIVOT - 5	1
5	223473	PLATE, SPRING MOUNT	2
6	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
7	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	5
8	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-11)	1
9	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
10	206652	SPRING ASSY 17" 1-1/8 THD	1
11	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
12	172526	PIN PIVOT	1
13	117957	MACHINERY BUSHING,ZINC PLATED	2
14	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
15	198321	ASSY, TRUNION MOUNT 1-5/8" (INCLUDES ITEMS 37-40)	2
16	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
17	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
18	170844	TUBE, HARROW ADJ. COMBO ATTACH	1
19	8-102-010043	U-BOLT, SPRING CLAMP	1
20	171427	PLATE, HARROW STIFFNER	1
21	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	1
22	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	1
23	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
24	158299	PIN 1X7-5/16	1
25	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	3
26	1-557-010013	PIN, HAIR 3/16 DIA	1
27	170857	TUBE, HARROW HEIGHT ADJ HANDLE	1
28	1-861-010032-32	WASHER FLAT ZP/CD 1-1/2	2
29	170787	GEAR, HARROW ADJUSTMENT	1
30	170862	PLATE, GANGBAR MOUNT	1
31	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
32	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
33	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	1
34	104483	SCREW 3/4-10X2-1/2 HXCP ZPGR8	8
34	107491	SCREW HX CP 3/4-10X8-1/2 GR8	8
35	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	8
36	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	8
37	188528	TRUNION, CYLINDER	1
38	188531	TRUNION, BEARING	1
39	109895	WASHER,3ODX2-1/16X14GA	1
40	188530	SNAP RING, 2 SHAFT	1
41	234845	PLATE, BULKHEAD MOUNT	1
42	1-654-010055-17	SCREW,HEX CAP,1/2-13UNCX6 GR5	1
43	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	1
44	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
45	162569	TEE,#6 JIC BULKHD RUN, W/NUT	2

Tine Harrow Assembly



NOTE: ITEM 21 HAS THE OUTER TOOTH SHORTENED 4"

Figure 9-4: Tine Harrow Assembly

Tine Harrow Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.				
--	240346	ASSY, 4 TINE HARROW LH	*				
--	240345	ASSY, 4 TINE HARROW RH		*			
--	245267	ASSY, 5 TINE HARROW CTR LONG			*		
--	172477	ASSY, 5 TINE HARROW LH				*	
--	202567	ASSY, 5 TINE HARROW RH					*
1	154993	PLATE GANG BAR	2	2	2	2	2
2	240344	TUBE, RIDE BAR 77"	1	1	--	--	--
2	155005	TUBE SQ 3 X 3/16X107	--	--	1	--	--
2	156778	TUBE RIDE BAR 90.5"	--	--	--	1	1
3	154998	PLATE ANGLE ADJUSTMENT	4	4	4	4	4
4	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	4	4	4	4	4
5	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	16	16	24	24	24
6	1-654-010070-14	SCREW 1/2-13X4-1/2RDHD SQNCK	8	8	8	8	8
7	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	44	44	42	42	42
8	195243	GANG BAR 4 TINE 87-1/4	3	3	--	--	--
8	195244	GANG BAR 5 TINE 111	--	--	3	3	3
9	154994	TUBE ANGLE ADJUST	6	6	6	6	6
10	155927	CAP, TUBE 1.95X1.5 BLACK	6	6	6	6	6
11	154995	U-BOLT, 1/2	6	6	6	6	6
12	1-654-010070-11	SCREW,RDHD,SQNCK 1/2-13X3-1/2	6	6	6	6	6
13	155956	BUSHING ANGLE ADJUSTMENT	6	6	6	6	6
14	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	6	6	6	6	6
15	155971	PIN, HARROW ADJ	6	6	6	6	6
16	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	6	6	6	6	6
17	171421	TINE, HARROW SPRING	10	10	15	13	13
18	1-654-010070-13	SCREW,RH HD, SQ NCK 1/2-13X4	24	24	30	30	30
19	217570	STOP, COIL TINE 1/2"	12	12	15	15	15
20	231304	RD TUBE, TINE STOP	4	4	--	5	5
21	202331	TINE, HARROW SPNG RH END 5/8 (SHOWN)	2	2	--	--	2
21	202332	TINE, HARROW SPNG LH END 5/8	2	2	--	2	--

3BCT Chopper Reel/Gangbar Assembly

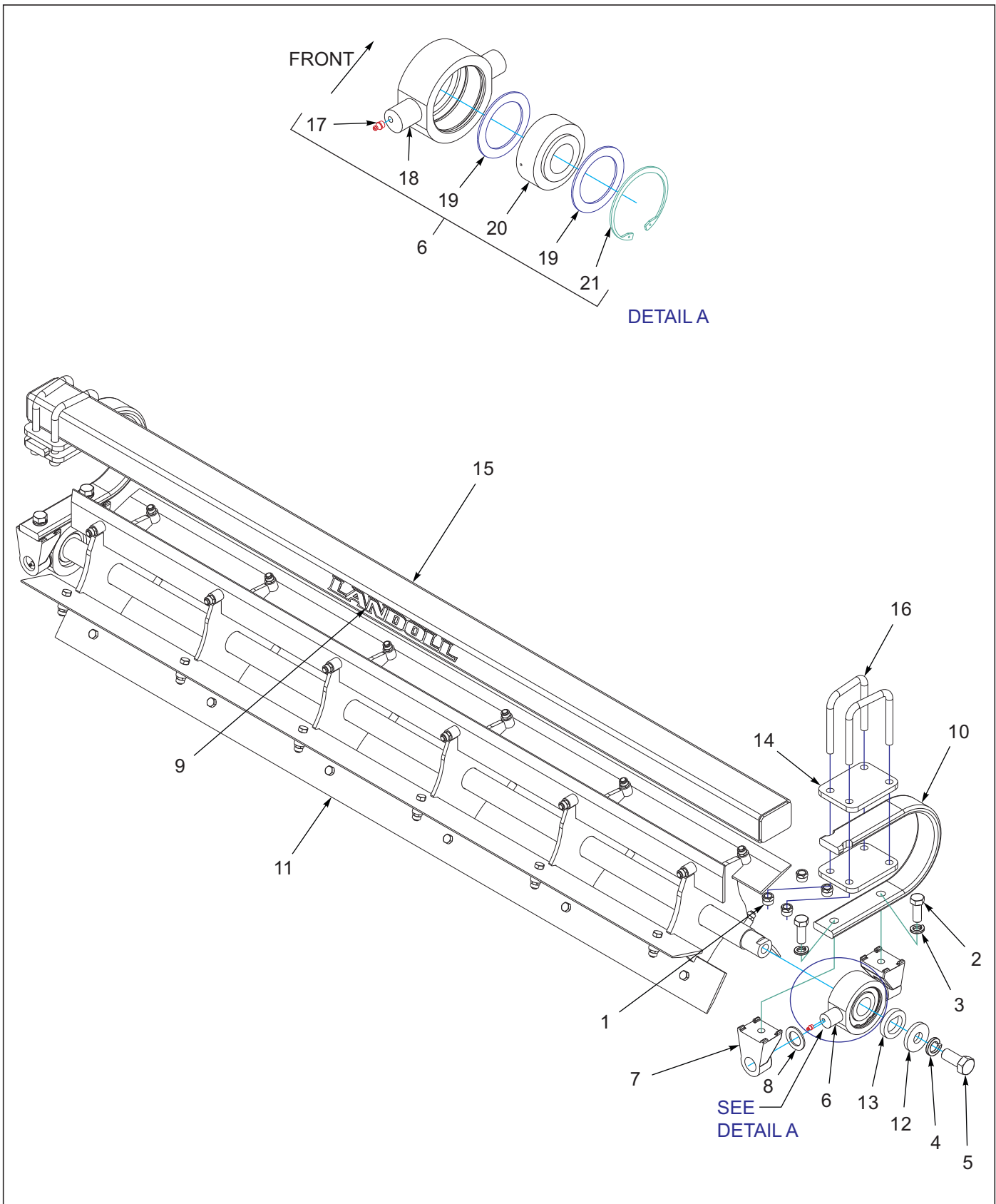


Figure 9-5: 3BCT ChopperReel/ Gangbar Assembly

3BCT Chopper Reel/Gangbar Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	172529	REEL/GANGBAR - 97" ASSY	*		
--	155595	CHOPPER-REEL/GANGBAR ASSY 129"		*	
--	154410	REEL/GANGBAR ASSY 114"			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8	8
2	1-654-010032-05	SCREW HEX CAP 3/4-10X2 GR8	4	4	4
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4	4
4	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	2	2	2
5	137943	SCREW,HEX CAP 1-8UNCX2-1/4GR5	2	2	2
6	140477	BEARING, DISC 1.775 ID ASSY (INCLUDES ITEMS 17-21)	2	2	2
7	140479	MOUNT, TRUNNION	4	4	4
8	140480	WASHER, TRUNNION	2	2	2
9	148337	ATTACHMENT DECAL, LANDOLL	1	1	1
10	153716	SHANK, STRAIGHT 3/4 X 2-1/2	2	2	2
11	172528	REEL ASSY 97" BLADE (SEE PAGE 9-13)	1	--	--
11	155592	REEL ASSY 129" BLADE (SEE PAGE 9-13)	--	1	--
11	154182	REEL ASSY, 114" BLADE	--	--	1
12	154185	WASHER 3/8 THICK 1" ID	2	2	2
13	154186	WASHER FLAT TOP	2	2	2
14	154393	PLATE SHANK MOUNT	4	4	4
15	155544	GANGBAR WLDMT 107" - REEL 97"	1	--	--
15	155594	GANGBAR WLDMT 139" - REEL 129"	--	1	--
15	154659	GANGBAR WLDMT 124" - REEL 114"	--	--	1
16	6-102-010009	U-BOLT RIGID GA WHEEL	4	4	4
17	5000	ZERK FITTING 1/8NPT	1	1	1
18	140475	CASTING, TRUNNION	1	1	1
19	140473	WASHER, BEARING	2	2	2
20	140464	BEARING, DISC 1.775 ID	1	1	1
21	140476	INTERNAL RETAINING RING	1	1	1

Reel Blade Assembly

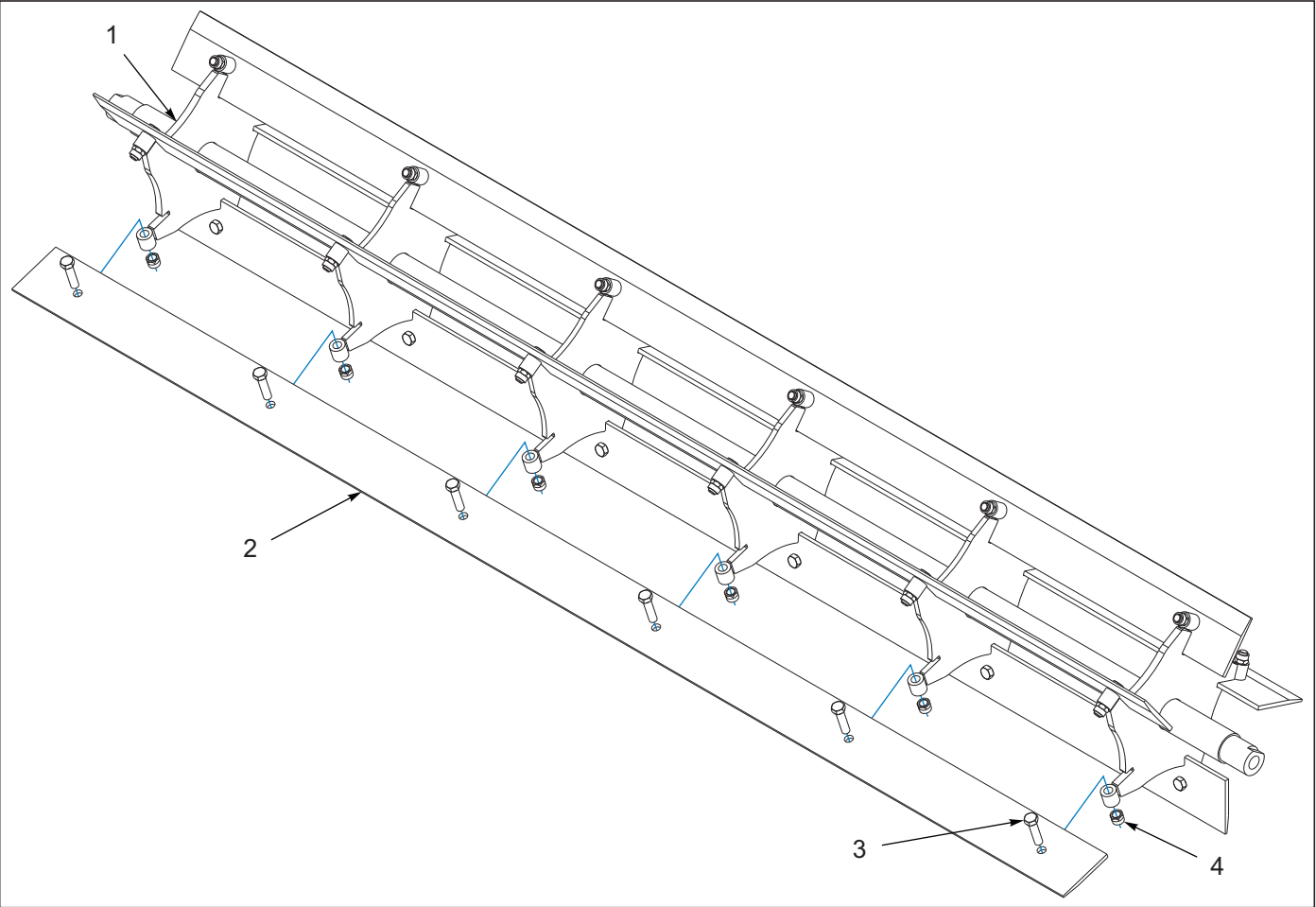


Figure 9-6: Reel Blade Assembly

Reel Blade Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	172528	REEL ASSY 97" BLADE	*		
--	155592	REEL ASSY 129" BLADE	*		
--	154182	REEL ASSY, 114" BLADE	*		
1	172527	REEL, ASSY 97 IN BLADE	1	--	--
1	155591	REEL ASSY 129" BLADE WLDMT	--	1	--
1	154138	REEL ASSY, 114" BLADE	--	--	1
2	172531	REEL BLADE 97 IN	5	--	--
2	155589	REEL BLADE 129 IN	--	5	--
2	8-622-010081	REEL BLADE 114"	--	--	5
3	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	35	45	40
4	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	35	45	40

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3BCT/Chopper Hydraulic Assembly

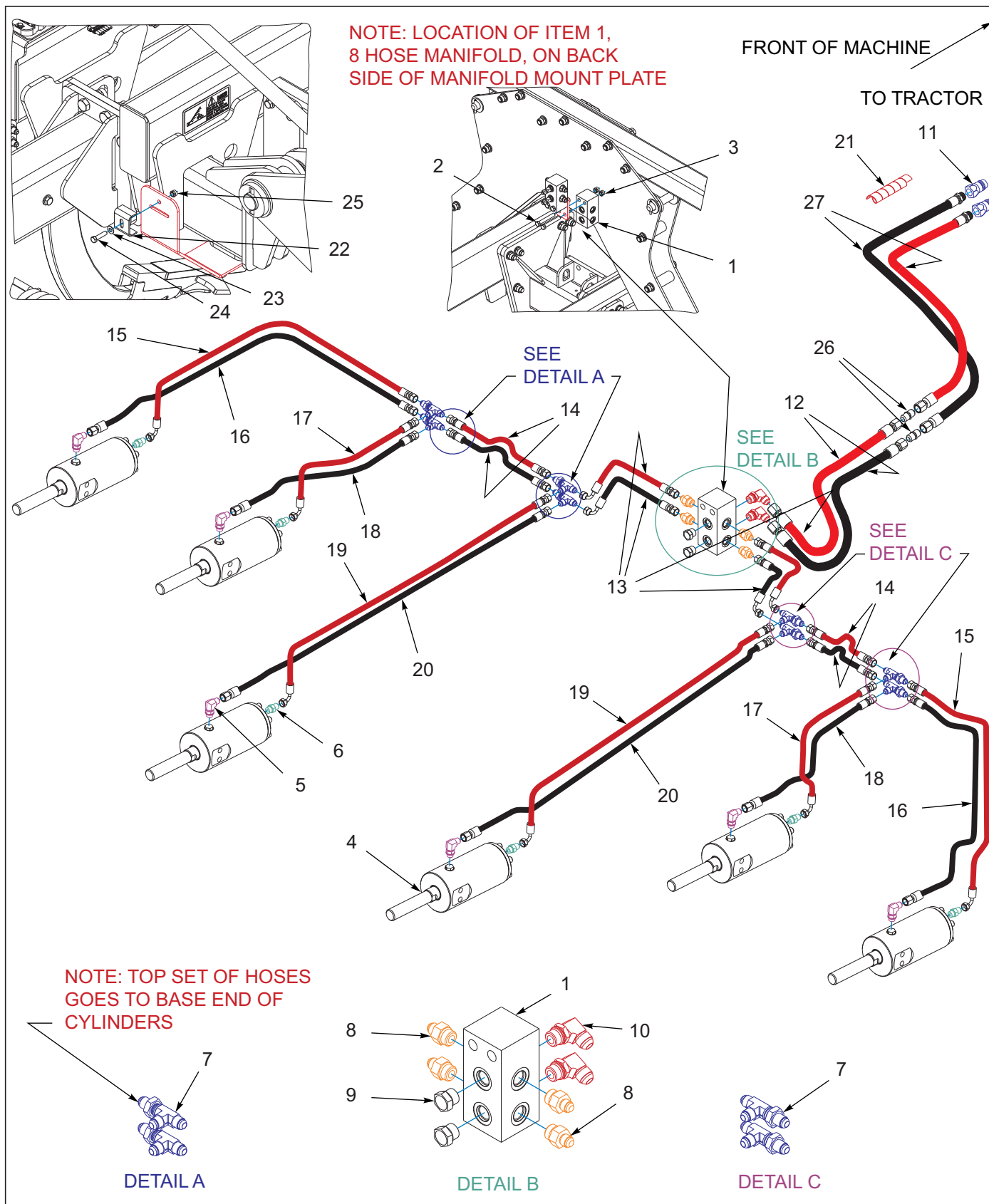


Figure 9-7: 3BCT/Chopper Hydraulic Assembly

3BCT/Chopper Hydraulic Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
2	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
3	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
4	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-11)	6
5	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	12
6	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	6
7	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
8	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
10	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	2
11	141828	COUPLER,MALE 3/4-16 O-RING	2
12	141864	HOSE ASSY 3/8X175 #8 JIC SWIV	2
13	174267	HOSE ASSY 1/4X64 #6JIC STR-90	4
14	7779-48	HOSE HYD 1/4 X 48	4
15	246802	HOSE ASSY, 1/4X86 #6JIC STR-90 (2431-11)	2
15	237337	HOSE ASSY, 1/4X112,#6JIC STR90 (2431-13)	2
16	7779-90	HOSE HYD 1/4 X 90 (2431-11)	2
16	71509124	HOSE ASSY 1/4 #6 JIC (2X) 116" (2431-13)	2
17	149010	HOSE ASSY 1/4X36 #6JIC STR-90	2
18	71509008	HOSE ASM 1/4 X40	2
19	174267	HOSE ASSY 1/4X64 #6JIC STR-90	2
20	173000	HOSE ASSY, 1/4 X 68 #6 JIC STR	2
21	172973	HOSE WRAP, RED	1
22	2-181-010001	HOSE CLAMP	2
23	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
24	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	2
25	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
26	148338	FITTING, UNION SAE 37 8X8	2
27	246800	HOSE ASSY, 3/8X326 #8JICX#8MOR	2

Disc Lev/Hyd Flat RL W/Bearing Assembly

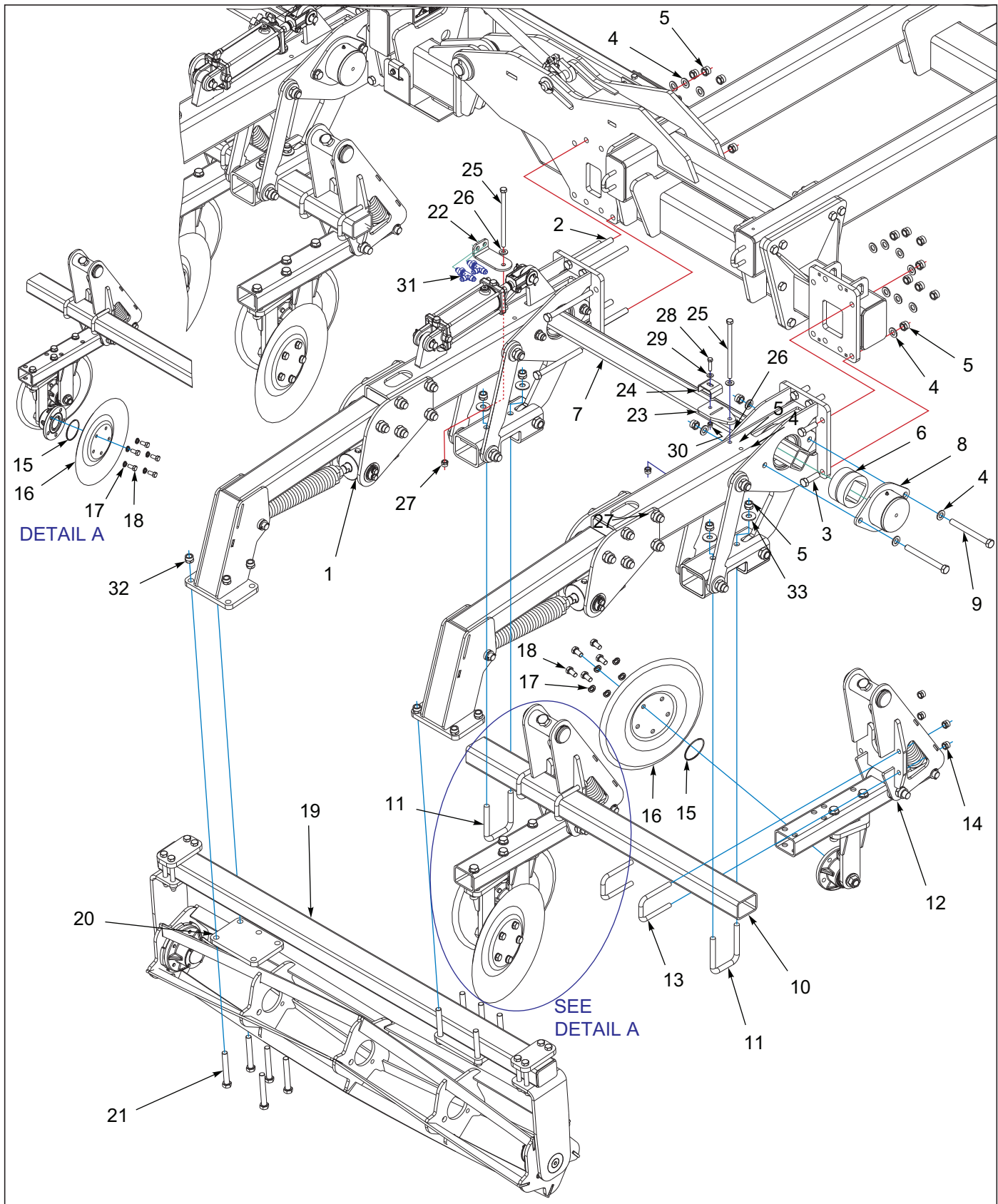


Figure 9-8: Disc Lev/Hyd RL W/Bearing Assembly

Disc Lev/Hyd Flat RL W/Bearing Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245253	DISC LEV/HYD FLAT RL 2431-11	*	
--	245260	DISC LEV/HYD FLAT RL 2431-13	*	
1	-----	DISC LEVELER ARM ASSEMBLY (SEE 9-19 THROUGH 9-19)	--	--
2	107491	SCREW HX CP 3/4-10X8-1/2 GR8	16	16
3	104483	SCREW 3/4-10X2-1/2 HXCP ZPGR8	40	40
4	1-861-010032-20	WASHER, FLAT, 3/4 N ZP/CD	56	56
5	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	56	56
6	8J187	BEARING	2	2
7	-----	DISC LEVELER LIFT TUBE (SEE 9-19 THROUGH 9-19)	3	3
8	246715	CAP, DISC LEVELER BRG	2	2
9	1-654-010061-20	SCREW HX CP 3/4-10UNCX7-1/2G5	4	4
10	-----	DISC LEVELER ASSEMBLY MOUNT TUBE (SEE 9-19 THROUGH 9-19)	3	3
11	3J451	U-BOLT 3/4-10 X 4 X 4	6	6
12	-----	DISC LEVELER ASSEMBLY MOUNT (SEE 9-19 THROUGH 9-19)	12	14
13	2-102-010054	U-BOLT	24	28
14	1-512-010005-13	NUT, HEX SLFLKG GRB 5/8-11	48	56
15	202843	O-RING, 4" ID X 1/8" BUNA	22	26
16	239520	DISC BLD, IND 18" X 1/4	22	26
17	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	110	130
18	1-654-010059-02	SCREW, HEX CAP, 5/8-11X1-1/4GR5	110	130
19	-----	REEL/GANGBAR ASSEMBLY (SEE 9-19 THROUGH 9-19)	3	3
20	170862	PLATE, GANGBAR MOUNT	6	6
21	1-654-010087-16	SCREW, HEX CAP, 3/4-16X5.50 GR8	30	30
22	240395	PLATE, HOSE MOUNT	4	4
23	225198	PLATE, HOSE MOUNT	5	5
24	2-181-010001	HOSE CLAMP	7	7
25	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	9	9
26	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	9	9
27	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	9	9
28	1-654-010051-07	SCREW, HEX CAP, 3/8-16UNCX1-1/2	5	5
29	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	5	5
30	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	5	5
31	162569	TEE, #6 JIC BULKHD RUN, W/NUT	8	8
32	1-512-010002-16	NUT, 3/4-16 HEX, SLFLKG, GRC	30	30
33	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	12	12

Disc Lev/Hyd Flat RL W/Bearing Layout

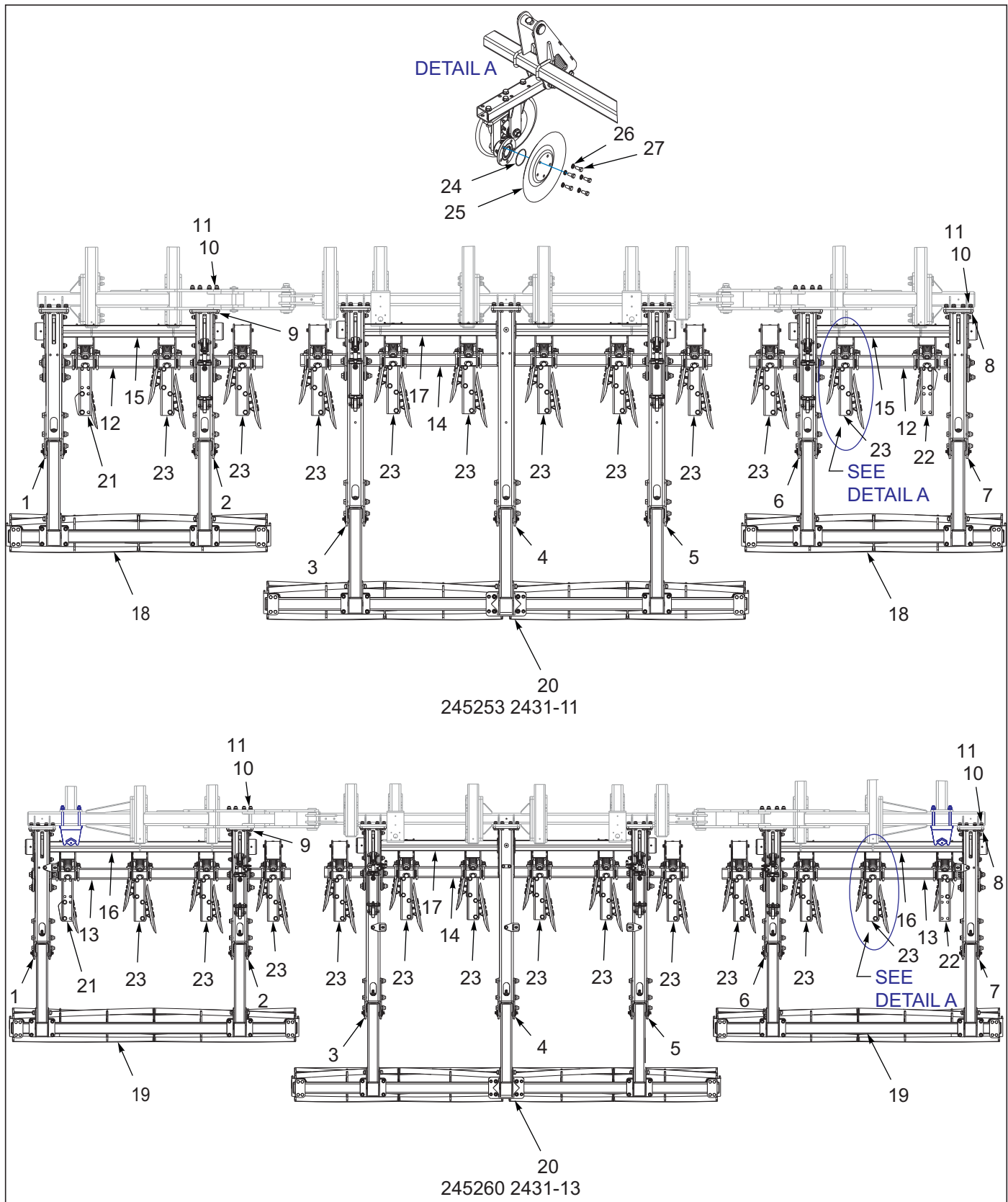


Figure 9-9: Disc Lev/Hyd Flat RL W/Bearing Layout

Disc Lev/Hyd Flat RL W/Bearing Layout

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	245253	DISC LEV/HYD FLAT RL 2431-11	*	
--	245260	DISC LEV/HYD FLAT RL 2431-13	*	
1	246723	ASSY, ARM NO HYD LT (SEE PAGE 9-21)	1	1
2	246702	ASSY, ARM HYD 3-1/4 X 8 RT (SEE PAGE 9-23)	1	1
3	246720	ASSY, ARM HYD 3-1/2 X 8 LT LG	1	1
4	246742	ASSY, CTR ARM DISC LEV	1	1
5	246700	ASSY, ARM HYD 3-1/2 X 8 RT LG	1	1
6	246722	ASSY, ARM HYD 3-1/4 X 8 LT (SEE PAGE 9-23)	1	1
7	246703	ASSY, ARM NO HYD RT (SEE PAGE 9-21)	1	1
8	104483	SCREW 3/4-10X2-1/2 HXCP ZPGR8	40	40
9	107491	SCREW HX CP 3/4-10X8-1/2 GR8	16	16
10	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	56	56
11	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	56	56
12	245200	TUBE, WING DISC 70" L	2	--
13	245201	TUBE, WING DISC 93" L	--	2
14	245199	TUBE, CTR DISC 131" L	1	1
15	246729	SQ TUBE, DISC LIFT X 59 L	2	--
16	246879	SQ TUBE, DISC LIFT X 82-1/4 L	--	2
17	246728	SQ TUBE, DISC LIFT X 106-3/4 L	1	1
18	241842	ASSY, 82" REEL/GANGBAR (SEE PAGE 9-33)	2	--
19	241843	ASSY, 102" REEL/GANGBAR (SEE PAGE 9-33)	--	2
20	241848	ASSY, 152" REEL/GANGBAR (SEE PAGE 9-33)	1	1
21	243151	ASSY MOUNT, DISC LEVELER-LT (SEE PAGE 9-31)	1	1
22	243150	ASSY MOUNT, DISC LEVELER-RT (SEE PAGE 9-31)	1	1
23	243138	ASSY MOUNT, DISC LEVELER (SEE PAGE 9-31)	10	12
24	202843	O-RING, 4" ID X 1/8" BUNA	22	26
25	239520	DISC BLD, IND 18" X 1/4	22	26
26	1-861-010034-15	WASHER,LKG,HLCL SPR,5/8	110	130
27	1-654-010059-02	SCREW,HEX CAP,5/8-11X1-1/4GR5	110	130

Arm No/Hyd Assembly

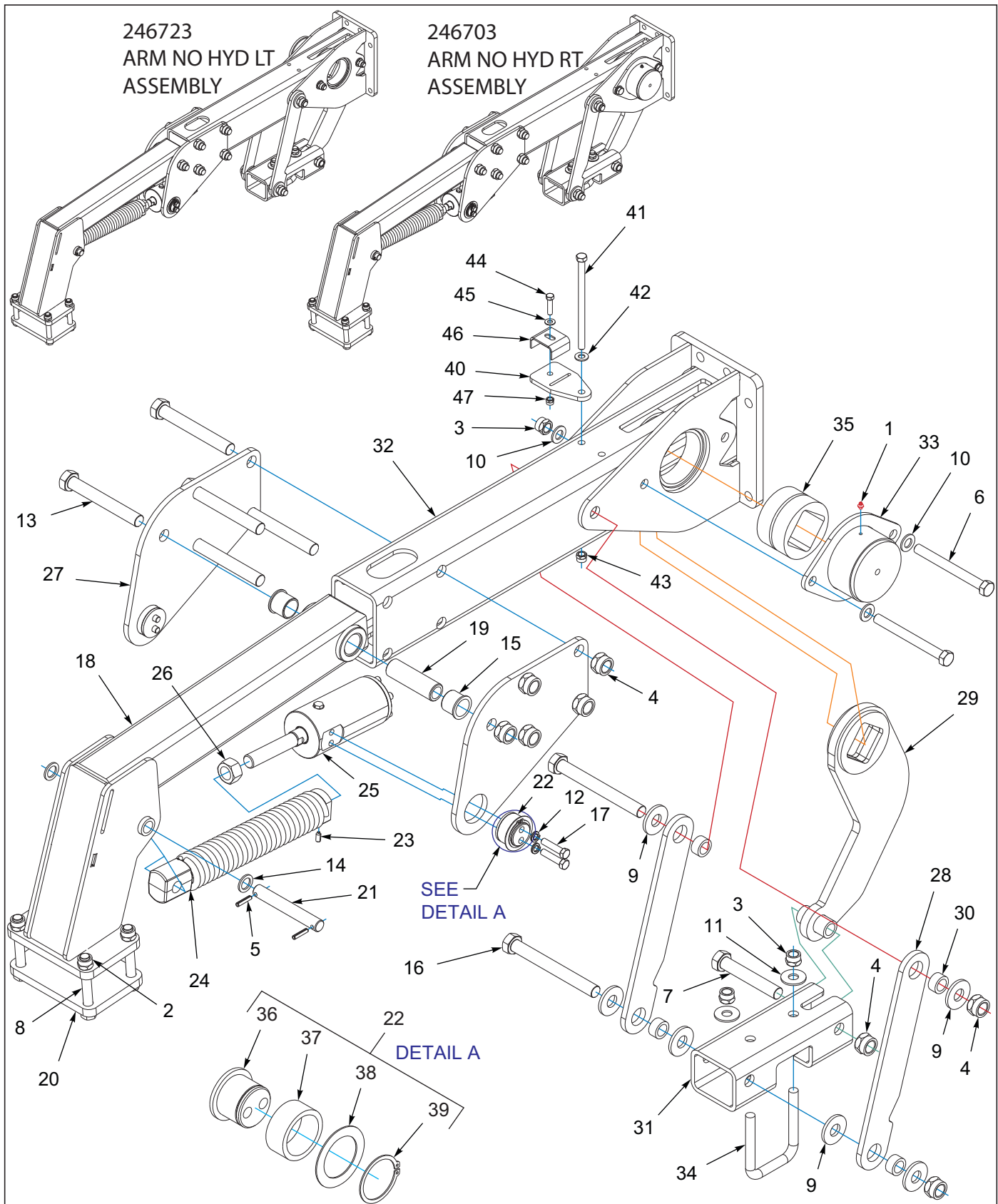


Figure 9-10: Arm No/Hyd Assembly

Arm No/Hyd Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	246723	ASSY, ARM NO HYD LT	
--	246703	ASSY, ARM NO HYD RT	
1	1-298-010001-1	ZERK FITTING 1/4 SAE	1
2	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	8
5	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
6	1-654-010061-20	SCREW HX CP 3/4-10UNCX7-1/2G5	2
7	1-654-010065-17	SCREW, HEX CAP, 1-8UNCX6, GR5	1
8	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
9	1-861-010005	WASHER, SPINDLE 1	6
10	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	4
11	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2
12	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
13	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
14	117957	MACHINERY BUSHING,ZINC PLATED	2
15	140599	BEARING, FLANGE 1-1/2"	2
16	154888	SCREW HEX CAP, 1-8UNCX9 GR5	2
17	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
18	170851	ARM WLDMT REEL	1
19	170852	BUSHING, PIVOT - 5	1
20	170862	PLATE, GANGBAR MOUNT	1
21	172526	PIN PIVOT	1
22	198321	ASSY, TRUNION MOUNT 1-5/8"	2
23	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
24	206652	SPRING ASSY 17" 1-1/8 THD	1
25	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS	1
26	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
27	223473	PLATE, SPRING MOUNT	2
28	240409	LINK, PARALLEL ARM	2
29	240428	ARM, DISC LIFT	1
30	240431	BUSHING, PIVOT 3/4 L	4
31	241880	TUBE MOUNT, GANG BAR	1
32	246706	ARM, DISC LEVEL NO CYL	1
33	246715	CAP, DISC LEVELER BRG	1
34	3J451	U-BOLT 3/4-10 X 4 X 4	1
35	8J187	BEARING	1
36	188528	TRUNION, CYLINDER	1
37	188531	TRUNION, BEARING	1
38	109895	WASHER,3ODX2-1/16X14GA	1
39	188530	SNAP RING, 2 SHAFT	1
40	225198	PLATE, HOSE MOUNT	1
41	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	4
42	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	1
43	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
44	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	1
45	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	1
46	2-181-010001	HOSE CLAMP	1
47	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1

Arm With/Hyd Assembly

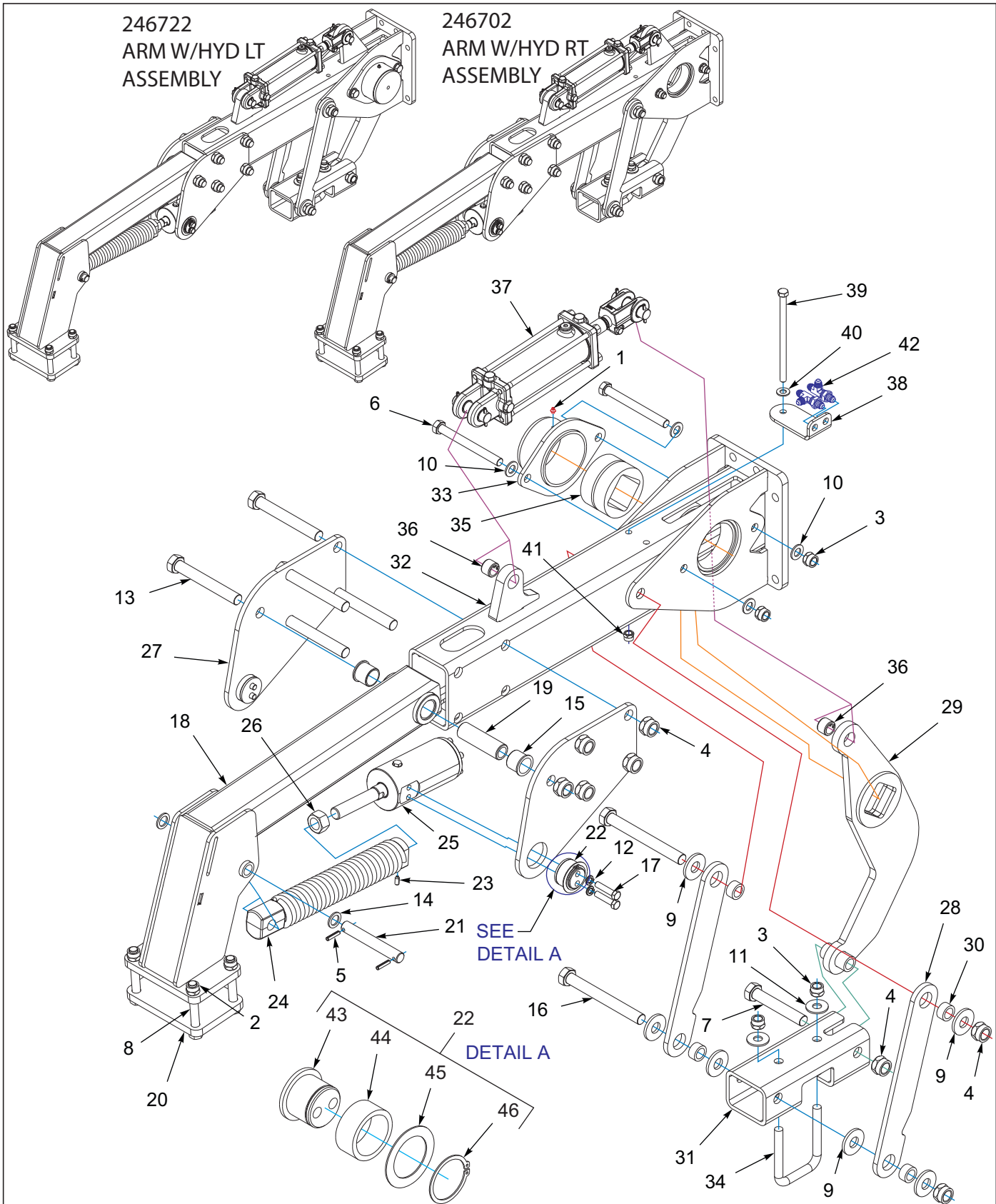


Figure 9-11: Arm With/Hyd Assembly

Arm With/Hyd Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	246702	ASSY, ARM HYD 3-1/4 X 8 RT (INCLUDES ITEMS 1-37)	
--	246722	ASSY, ARM HYD 3-1/4 X 8 LT (INCLUDES ITEMS 1-37)	
1	1-298-010001-1	ZERK FITTING 1/4 SAE	1
2	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	8
5	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
6	1-654-010061-20	SCREW HX CP 3/4-10UNCX7-1/2G5	2
7	1-654-010065-17	SCREW, HEX CAP, 1-8UNCX6, GR5	1
8	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
9	1-861-010005	WASHER, SPINDLE 1	6
10	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	4
11	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2
12	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
13	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
14	117957	MACHINERY BUSHING,ZINC PLATED	2
15	140599	BEARING, FLANGE 1-1/2"	2
16	154888	SCREW HEX CAP, 1-8UNCX9 GR5	2
17	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
18	170851	ARM WLDMT REEL	1
19	170852	BUSHING, PIVOT - 5	1
20	170862	PLATE, GANGBAR MOUNT	1
21	172526	PIN PIVOT	1
22	198321	ASSY, TRUNION MOUNT 1-5/8" (INCLUDES ITEMS 43-46)	2
23	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
24	206652	SPRING ASSY 17" 1-1/8 THD	1
25	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-12)	1
26	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
27	223473	PLATE, SPRING MOUNT	2
28	240409	LINK, PARALLEL ARM	2
29	240427	ARM, DISC LIFT W/ CYL	1
30	240431	BUSHING, PIVOT 3/4 L	4
31	241880	TUBE MOUNT, GANG BAR	1
32	246705	ARM, DISC LEVEL HYD	1
33	246715	CAP, DISC LEVELER BRG	1
34	3J451	U-BOLT 3/4-10 X 4 X 4	1
35	8J187	BEARING	1
36	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2
37	145204	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGES 6-9 OR 6-10)	1
38	240395	PLATE, HOSE MOUNT	1
39	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	1
40	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	1
41	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
42	162569	TEE,#6 JIC BULKHD RUN, W/NUT	2
43	188528	TRUNION, CYLINDER	1
44	188531	TRUNION, BEARING	1
45	109895	WASHER,3ODX2-1/16X14GA	1
46	188530	SNAP RING, 2 SHAFT	1

Arm With/Hyd LG Assembly

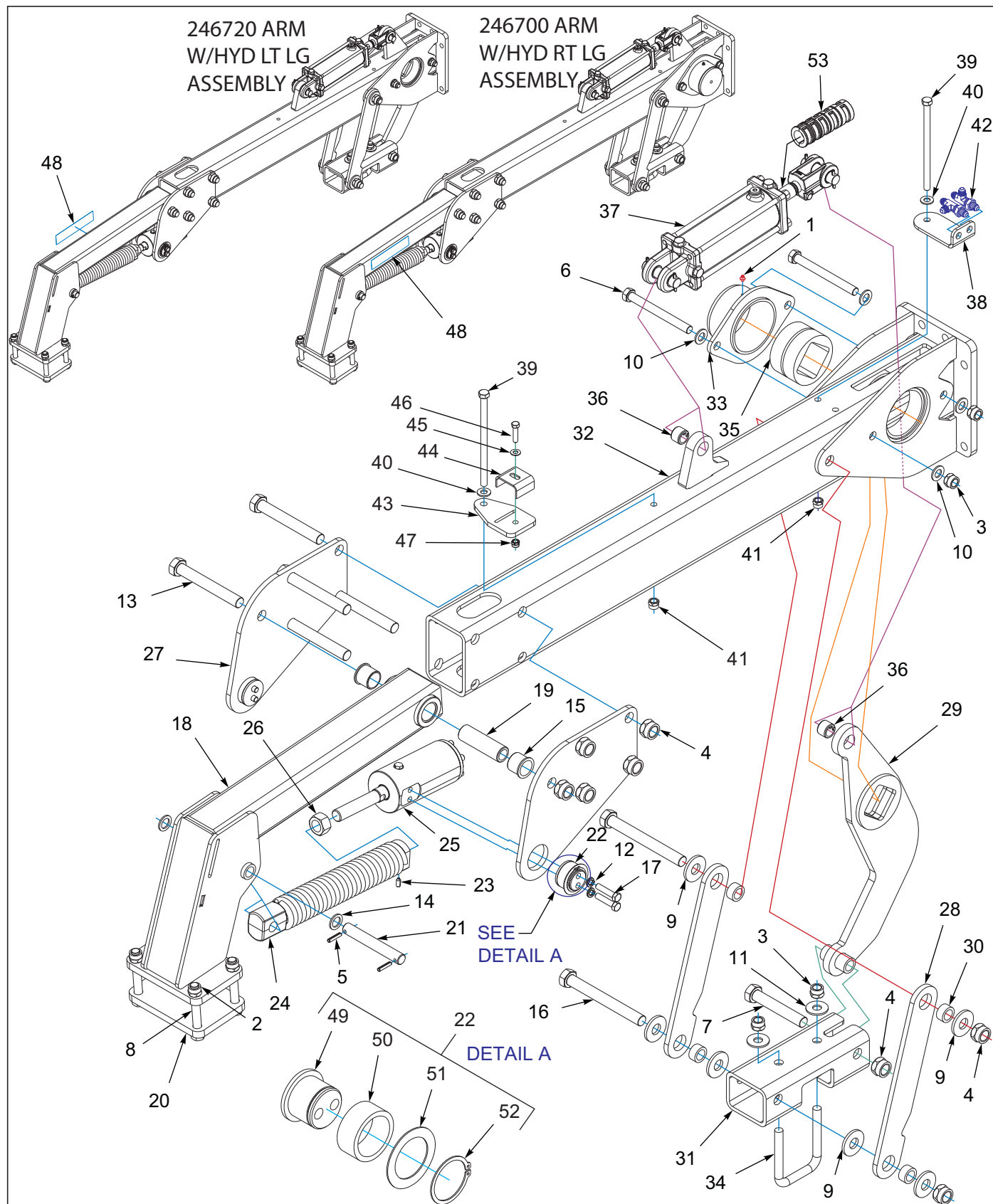


Figure 9-12: Arm With/Hyd LG Assembly

Arm With/Hyd LG Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	246700	ASSY, ARM HYD 3-1/2 X 8 RT LG (INCLUDES ITEMS 1-37)	
--	246720	ASSY, ARM HYD 3-1/2 X 8 LT LG (INCLUDES ITEMS 1-37)	
1	1-298-010001-1	ZERK FITTING 1/4 SAE	1
2	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	8
5	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
6	1-654-010061-20	SCREW HX CP 3/4-10UNCX7-1/2G5	2
7	1-654-010065-17	SCREW, HEX CAP, 1-8UNCX6, GR5	1
8	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	4
9	1-861-010005	WASHER, SPINDLE 1	6
10	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	4
11	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2
12	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
13	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
14	117957	MACHINERY BUSHING,ZINC PLATED	2
15	140599	BEARING, FLANGE 1-1/2"	2
16	154888	SCREW HEX CAP, 1-8UNCX9 GR5	2
17	169690	SCREW HXC1/2-13UNCX2-1/4 G5	4
18	170851	ARM WLDMT REEL	1
19	170852	BUSHING, PIVOT - 5	1
20	170862	PLATE, GANGBAR MOUNT	1
21	172526	PIN PIVOT	1
22	198321	ASSY, TRUNION MOUNT 1-5/8"	2
23	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
24	206652	SPRING ASSY 17" 1-1/8 THD	1
25	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-12)	1
26	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
27	223473	PLATE, SPRING MOUNT	2
28	240409	LINK, PARALLEL ARM	2
29	240427	ARM, DISC LIFT W/ CYL	1
30	240431	BUSHING, PIVOT 3/4 L	4
31	241880	TUBE MOUNT, GANG BAR	1
32	246704	ARM, DISC LEVEL HYD LG	1
33	246715	CAP, DISC LEVELER BRG	1
34	3J451	U-BOLT 3/4-10 X 4 X 4	1
35	8J187	BEARING	1
36	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2
37	145203	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGES 6-7 OR 6-8)	1
38	240395	PLATE, HOSE MOUNT	1
39	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	1
40	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	1
41	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
42	162569	TEE,#6 JIC BULKHD RUN, W/NUT	2
43	225198	PLATE, HOSE MOUNT	1
44	2-181-010001	HOSE CLAMP	1
45	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	1
46	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	1
47	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1

Arm With/Hyd LG Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
48	528934	REFLECTOR - YELLOW	2
49	188528	TRUNION, CYLINDER	1
50	188531	TRUNION, BEARING	1
51	109895	WASHER,3ODX2-1/16X14GA	1
52	188530	SNAP RING, 2 SHAFT	1
53	1P332	STROKE CONTROL SEG SET, 1 1/2"	1

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Arm No/Hyd Center Assembly

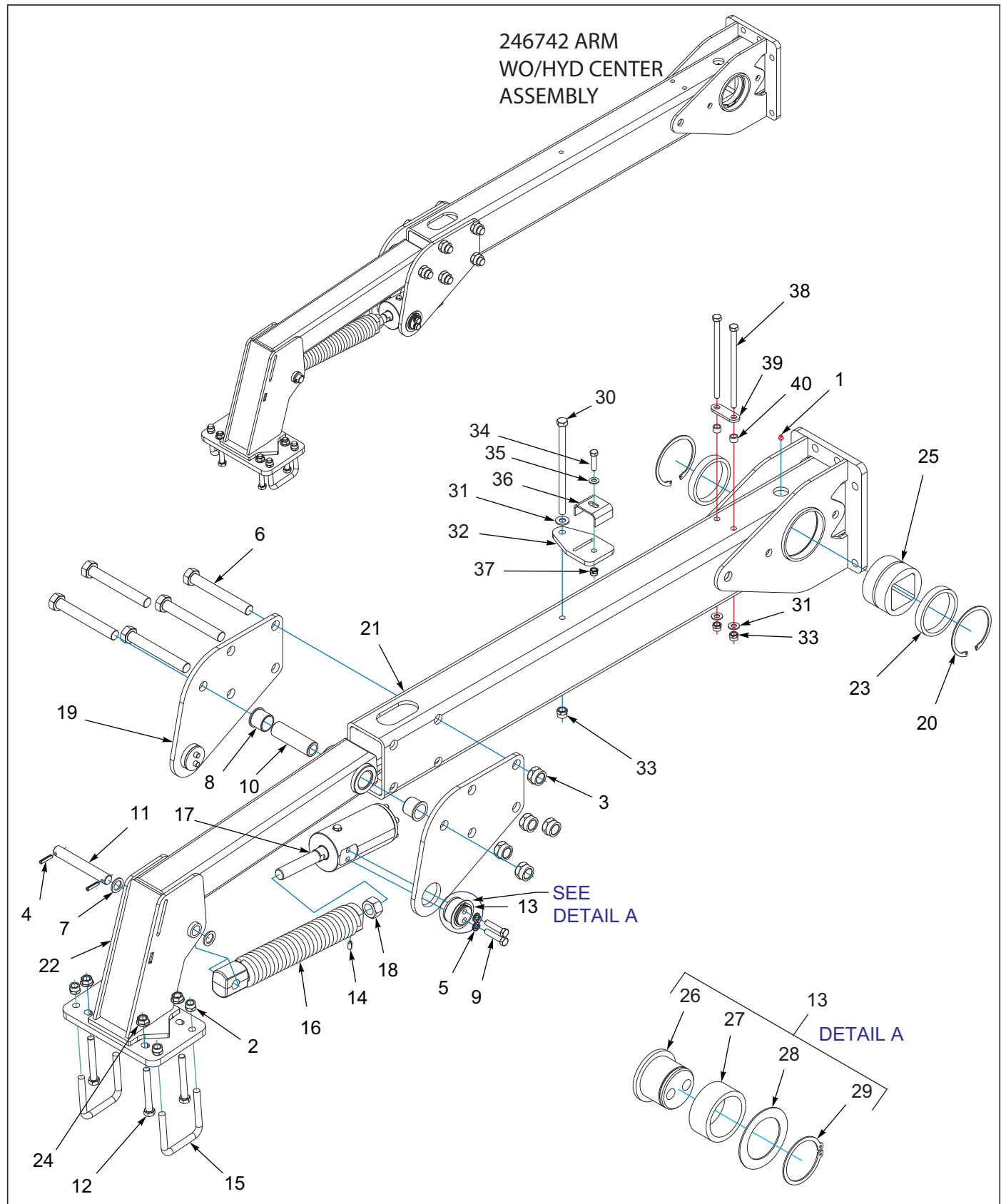


Figure 9-13: Arm No/Hyd Center Assembly

Arm No/Hyd Center Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	246742	ASSY, CTR ARM DISC LEV (INCLUDES ITEMS 1-37)	
1	1-298-010001-1	ZERK FITTING 1/4 SAE	1
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	5
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2
5	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
6	100856	SCREW,HHCS,1-8X7-1/2 GR5	5
7	117957	MACHINERY BUSHING,ZINC PLATED	2
8	140599	BEARING, FLANGE 1-1/2"	2
9	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
10	170852	BUSHING, PIVOT - 5	1
11	172526	PIN PIVOT	1
12	172830	SCREW HX CP 5/8-11X5 GR8	4
13	198321	ASSY, TRUNION MOUNT 1-5/8"	2
14	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
15	2-102-010004	BOLT U STANDARD GAUGE WHEEL	2
16	206652	SPRING ASSY 17" 1-1/8 THD	1
17	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-14)	1
18	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	1
19	223473	PLATE, SPRING MOUNT	2
20	246712	SNAP RING, 5" BORE	2
21	246743	ARM, DISC LEVEL CTR	1
22	246746	ARM, REEL CENTER	1
23	246751	PLATE, SPACER	2
24	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	4
25	8J187	BEARING	1
26	188528	TRUNION, CYLINDER	1
27	188531	TRUNION, BEARING	1
28	109895	WASHER,3ODX2-1/16X14GA	1
29	188530	SNAP RING, 2 SHAFT	1
30	1-654-010055-22	SCREW HEX CAP 1/2-13X8-1/2	1
31	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	2
32	225198	PLATE, HOSE MOUNT	1
33	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
34	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	1
35	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	1
36	2-181-010001	HOSE CLAMP	1
37	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
38	172899	SCREW HX CP 1/2-13X9 GR5	2
39	246805	PLATE, HOSE HOLDER	1
40	155956	BUSHING ANGLE ADJUSTMENT	2

Disc Leveler Mount Assembly

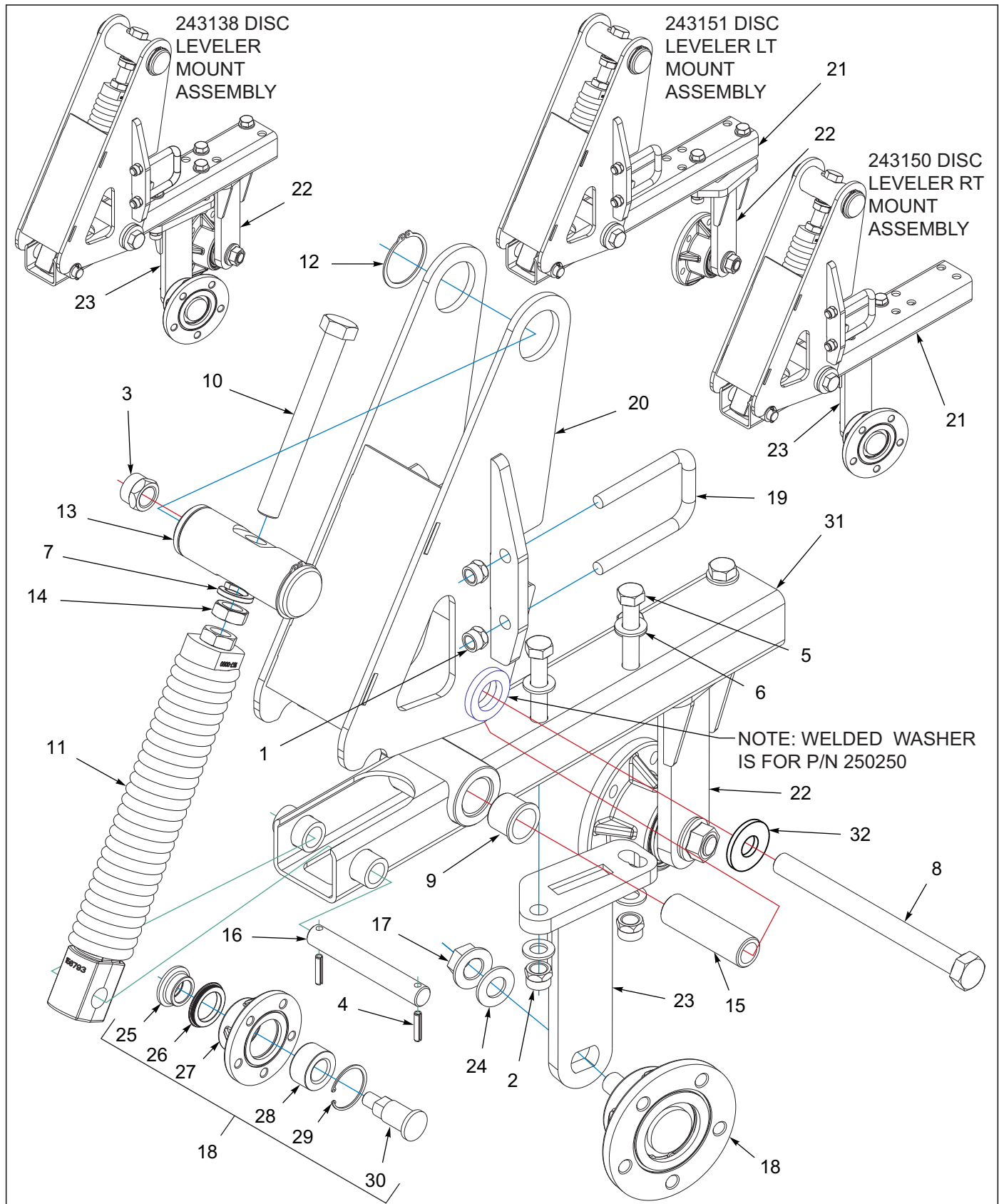


Figure 9-14: Disc Leveler Mount Assembly

Disc Leveler Mount Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	243138	ASSY MOUNT, DISC LEVELER	*		
--	243151	ASSY MOUNT, DISC LEVELER-LT		*	
--	243150	ASSY MOUNT, DISC LEVELER-RT			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4	4	4
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4	4	4
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	1	1	1
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	2	2	2
5	1-654-010061-15	SCREW,HX CP 3/4-10UNCX5 GR5	2	2	2
6	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	8	8	8
7	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1	1	1
8	100856	SCREW,HHCS,1-8X7-1/2 GR5 (BEFORE 01-01-2024)	1	1	1
8	100824	SCREW,HEX CAP 1-8X8 GR5 (AFTER 01-01-2024)	1	1	1
9	240687	BEARING, FLANGE 1-1/2	2	2	2
10	152210	BOLT, ADJ, 1 X 9	1	1	1
11	158795	SPRING ASSY, 17"	1	1	1
12	158896	SNAP RING, 2-1/2 SHAFT	2	2	2
13	160199	PIN, ADJ 7-/14 W/SNAP RING	1	1	1
14	163111	NUT 1-8 HEX JAM	2	2	2
15	246724	BUSHING, PIVOT (BEFORE 01-01-2024) (4-15/16" LONG)	1	1	1
15	250254	BUSHING, PIVOT 6-1/8 (AFTER 01-01-2024) (6-1/8" LONG)	1	1	1
16	172526	PIN PIVOT	1	1	1
17	174732	NUT, FLG HD, TOPLOCK, 1-8 UNC	1	1	1
18	185742	HUB ASSY HSL DISC	2	2	2
19	2-102-010054	U-BOLT	2	2	2
20	243139	MOUNT, SPRING TOWER (BEFORE 01-01-2024)	1	1	1
20	250250	MOUNT, SPRING TOWER (AFTER 01-01-2024)	1	1	1
21	243142	ARM WELDMNT, COVER DISC	0	1	1
22	243145	MOUNT, BRG RT	1	1	--
23	243146	MOUNT, BRG LT	1	--	1
24	622-3511-010	WASHER, FLAT 1" MIL-CARB SAE	1	1	1
25	188757	BUSHING-SPINDLE MOUNT	1	1	1
26	185757	SEAL, MAINT FREE HUB HSL	1	1	1
27	185740	HUB-DISC, HSL CAST	1	1	1
28	174526	BEARING, DOUBLE TAPER RLLR	1	1	1
29	174532	INTERNAL SNAP RING	1	1	1
30	174523	BOLT-SPINDLE, DISC, HSL	1	1	1
31	246718	ARM WELDMNT, COVER DISC	1	0	0
32	1-861-010005	WASHER, SPINDLE 1 (AFTER 01-01-2024)	1	1	1

Disc Lev/Hyd Flat Reel/Gangbar Assembly

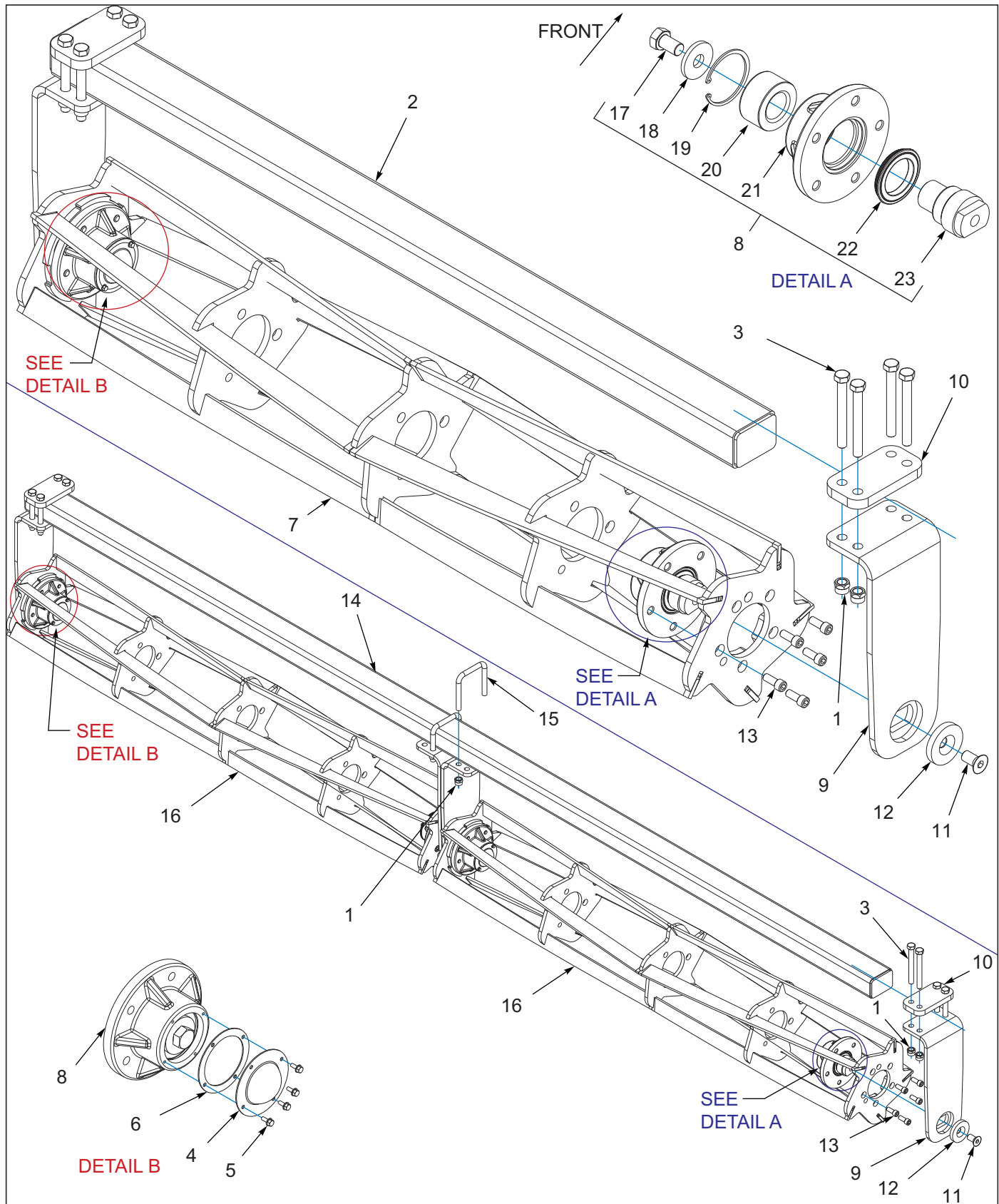


Figure 9-15: Disc Lev/Hyd Flat Reel/Gangbar Assembly

Disc Lev/Hyd Flat Reel/Gangbar Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	241842	ASSY, 82" REEL/GANGBAR	*		
--	241843	ASSY, 102" REEL/GANGBAR		*	
--	241848	ASSY, 152" REEL/GANGBAR			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8	8
2	241852	GANG BAR, 82-1/2 (2431-11 WINGS)	1	--	--
2	241853	GANG BAR, 103 L (2431-13 WINGS)	--	1	--
2	241858	GANG BAR, 153"	--	--	1
3	167646	SCREW,HX CP,5/8-11UNCX5-1/2GR8	8	8	8
4	223437	DUST CAP, BOLT ON	2	2	4
5	223438	SCREW, 10-32X1/2 HEX FLANGE	8	8	16
6	223439	GASKET, DUST CAP	2	2	4
7	240446	REEL 13" DIA, CHEVRON FLAT,82" (2431-11 WINGS)	1	--	--
7	240449	REEL 13" DIA, CHEV FLAT 102" (2431-13 WINGS)	--	1	--
7	240443	REEL 13" DIA, CHEVRON FLAT,75"	--	--	2
8	240460	ASSY, REEL HUB	2	2	4
9	240464	MOUNT, REEL BRG	2	2	4
10	241870	PLATE, REEL MOUNT	2	2	2
11	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	2	2	4
12	243124	WASHER, REEL	2	2	4
13	243125	SCREW, HEX SOCKET,1/2-13X1-1/4	10	10	20
14	241858	GANG BAR, 153"	--	--	1
15	2-102-010004	BOLT U STANDARD GAUGE WHEEL	--	--	2
16	240443	REEL 13" DIA, CHEVRON FLAT,75"	--	--	2
17	129263	SCREW HEX CAP 3/4-10 X 1-1/4	2	2	2
18	200259	WASHER, 3/4 HEAVY - 2-1/4	2	2	2
19	174532	INTERNAL SNAP RING	2	2	2
20	174526	BEARING, DOUBLE TAPER RLLR	2	2	2
21	240461	HUB, REEL	2	2	2
22	185757	SEAL, MAINT FREE HUB HSL	2	2	2
23	241878	SPINDLE, REEL	2	2	2

Disc Lev/Hyd RL Assembly

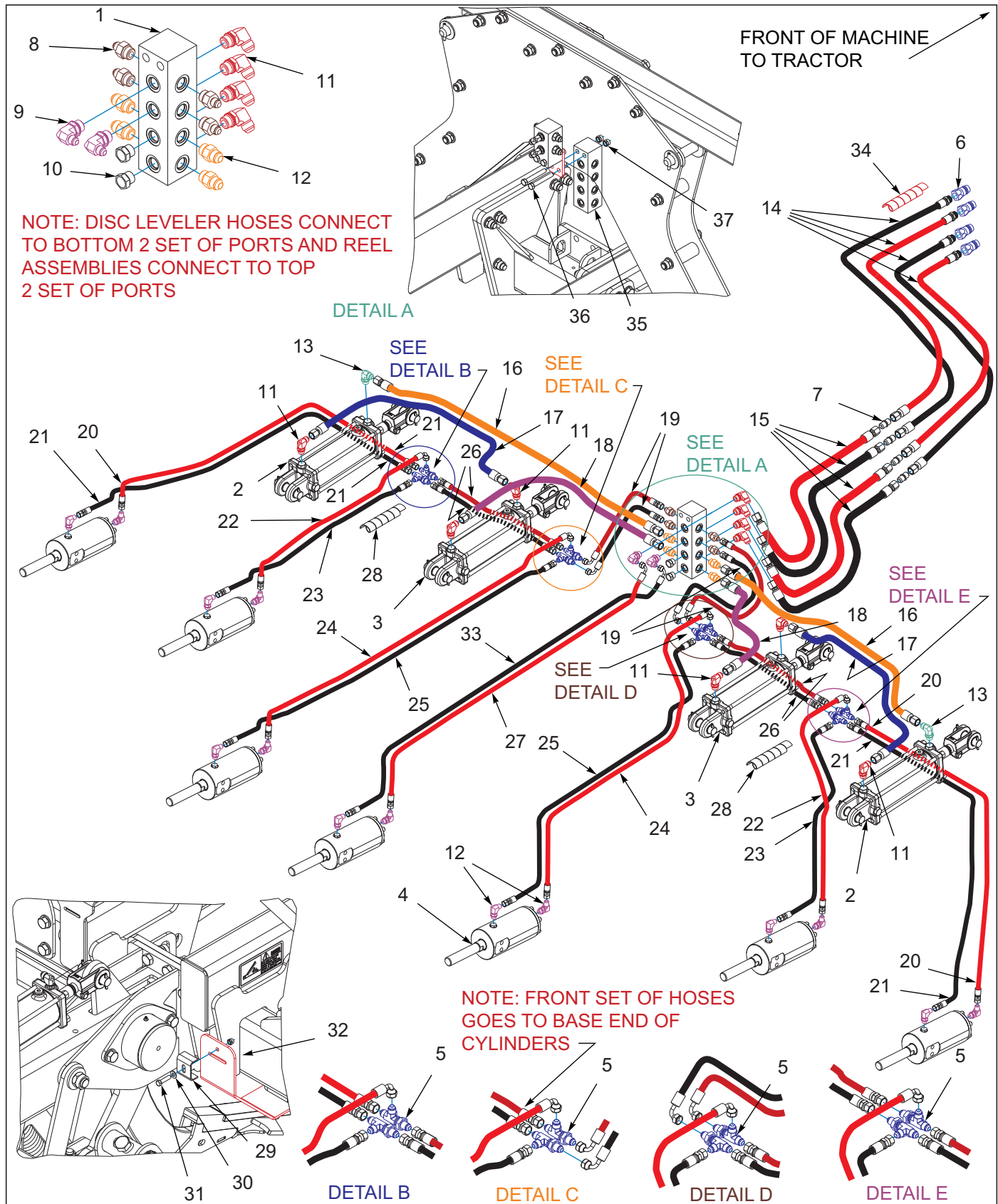


Figure 9-16: Disc Lev/Hyd RL Assembly

Disc Lev/Hyd RL Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	141594	MANIFOLD, HYDRAULIC 16 PORT	1
2	145204	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGE 6-9 OR 6-10)	2
3	145203	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGE 6-7 OR 6-8)	2
4	206672	CYL ASM 2-1/2X3-1/2ST1-1/8THDS (SEE PAGE 6-14)	7
5	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
6	141828	COUPLER,MALE 3/4-16 O-RING	4
7	148338	FITTING, UNION SAE 37 8X8	4
8	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
9	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
10	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
11	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	10
12	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	4
13	141826	ELBOW 90 1/16 RES	2
14	246800	HOSE ASSY, 3/8X326 #8JICX#8MOR	4
15	141864	HOSE ASSY 3/8X175 #8 JIC SWIV	4
16	116492	HOSE ASSY 3/8X128 #8 JIC SW	2
17	116489	HOSE ASSY 3/8X64 #8 JIC SW	2
18	181799	HOSE ASSY, 3/8X74, #8 JIC	2
19	174267	HOSE ASSY 1/4X64 #6JIC STR-90	4
20	7779-90	HOSE HYD 1/4 X 90 (2431-11)	2
20	71509124	HOSE ASSY 1/4 #6 JIC (2X) 116" (2431-13)	2
21	172978	HOSE ASSY, 1/4 X 94 #6 JIC STR (2431-11)	2
21	71600529	HOSE ASSY .25X120" (2431-13)	2
22	149010	HOSE ASSY 1/4X36 #6JIC STR-90	2
23	71509008	HOSE ASM 1/4 X40	2
24	246849	HOSE ASSY, 1/4X60 #6JIC STR-90	2
25	71509010	HOSE ASM 1/4 X 64	2
26	172981	HOSE ASSY, 1/4 X 50 #6 JIC STR	2
27	231518	HOSE ASSY, 1/4X83 #6JIC STR-90	4
28	155530	HOSE WRAP, BLACK 1" ID X 8"	2
29	2-181-010001	HOSE CLAMP	2
30	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
31	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	2
32	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
33	246802	HOSE ASSY, 1/4X86 #6JIC STR-90	1
34	172973	HOSE WRAP, RED (1-DISC LEVELER, 2- REEL LIFT)	3
35	141594	MANIFOLD, HYDRAULIC 16 PORT	1
36	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
37	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2

Glossary

For clarity this glossary of industry standard abbreviations and their definitions are provided. For additional information, see instruction on the inside front cover or the last page of this manual.

A

ASM Assembly

B

BATT Battery
BHSC Button Head Socket Cap
BLK Black

C

CB Carriage Bolt
CONN Connector
CRG Carriage
CTSK Countersunk
CTWT Counterweight
CVR Cover
CYD Cylinder

D

DBL Double
DIA Diameter

E

ENCLSD Enclosed

F

FHCS Flanged Head Cap Screw
FHHCS Flanged Hex Head Cap Screw
FL OR FLG Flange
FLT Flat

G

GA Gauge

H

HHCS Hex Head Cap Screw
HCS High Carbon Steel
HD Head
HLCL Helical
HCSKT Hex Socket
HSFC Hex Socket Flat Countersunk
HYD Hydraulic

I

ID Inside Diameter

L

LH Lefthand
LKG OR LOCK Locking
LWR Lower

M

MANF Manifold
MNT Mount

N

NRW Narrow
NSS Not Serviced Separately

O

OD Outside Diameter
OHG Overhead Guard
ORFS OR ORS O-Ring Seal
ORP OR ORB O-Ring Boss

P

P-STEER Power Steering
PTFE Polytetrafluoroethylene (Teflon)

R	
RH	 Righthand
RND	 Round

S	
SER	 Series
SHCS	 Socket Head Cap Screw
SHLD	 Shield
SKT	 Socket
SLFLKG	 Selflocking
SOC	 Socket
SPDT	 Single Pole Double Throw
SPR	 Spring

SQ	 Square
SRTD	 Serrated
SSCR	 Setscrew
SST	 Stainless Steel
STD	 Standard

U	
UPR	 Upper

W	
WHL	 Wheel
WLD OR WLDMT	 Weldment

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246718	9-32	3J451	9-18, 9-22, 9-24, 9-26
246720	9-20, 9-26	3J562	3-14
246722	9-20, 9-24	4001060	1-14
246723	9-20, 9-22	5000	1-14, 3-3, 9-12
246724	9-32	500171	2-6
246728	9-20	5013	1-12
246729	9-20	51039-23	5-2
246742	9-20, 9-30	528933	7-4, 8-3
246743	9-30	528934	7-4, 8-3, 9-5, 9-27
246746	9-30	528938	7-4, 8-3
246751	9-30	5D979	1-8
246763	1-4, 5-4	6-102-010009	9-12
246764	1-4, 5-4	622-3511-008	1-9, 4-2
246765	1-4, 5-2, 5-4, 5-8	622-3511-010	9-32

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Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone #: 800-423-4320 or 785-562-5381

Fax #: 888-527-3909

Order online: dealer.landoll.com

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame.

SERIAL NUMBER

The serial number is located on the identification plate.

The Following information will help decode the 2431 Weatherproofer serial number

24H240000 = xxmysssss

QR CODE DECAL

The 2400 series QR code decal, may be scanned to link you to the most current manuals, located on the front of the frame [See Figure 12-1](#)

xx	= model series (i.e. 24 for Weatherproofer)
m	= month of manufacture (ex. "H" means October. The letter I is not used.)
yy	= year manufactured (ex. "24" means 2024)
SSSSS	= Sequential number used to track warranty and service information.

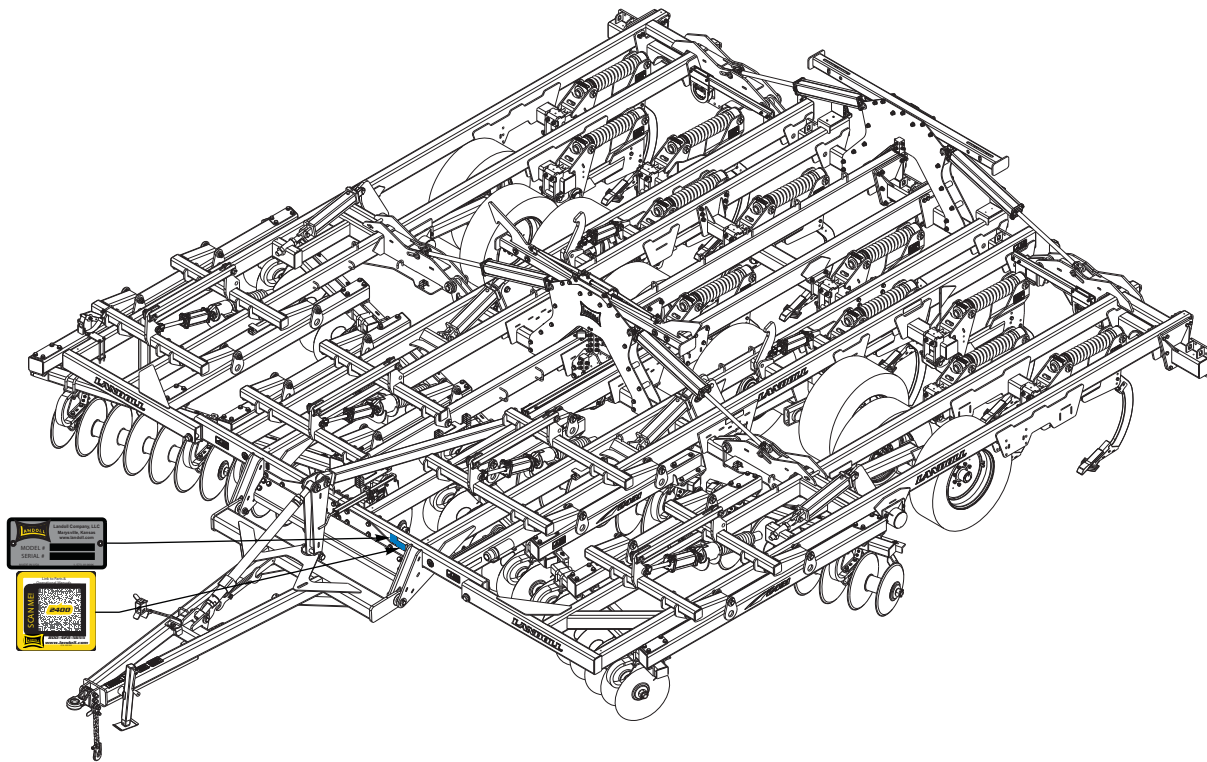


Figure 12-1: Identification Plate and QR Code Decal Location

Manuals for 2431 Weatherproofer

Manual Number	Manual Type
F-1156	Operator's Manual
F-1157	Parts Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
08/01/2023	F-1157	New manual
11/03/2023	F-1157-0-2311	Initial release
11/28/2023	F-1157-0-2311	Updated disc/hyd rl assembly pages 9-35-9-36
06/19/2024	F-1157-2406	Added model 2431-13, added 2431-13 attachments
10/01/2024	F-1157-2406	Added detail view of scrapers to disc gang assembly drawings



intertek

Equipment from Landoll Company, LLC is built to
exacting standards ensured by ISO 9001-2015
registration at all Landoll manufacturing facilities.

Model 2431

Weatherproofer

Parts Manual

Re-Order Part Number F-1157

LANDOLL COMPANY, LLC

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Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM



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