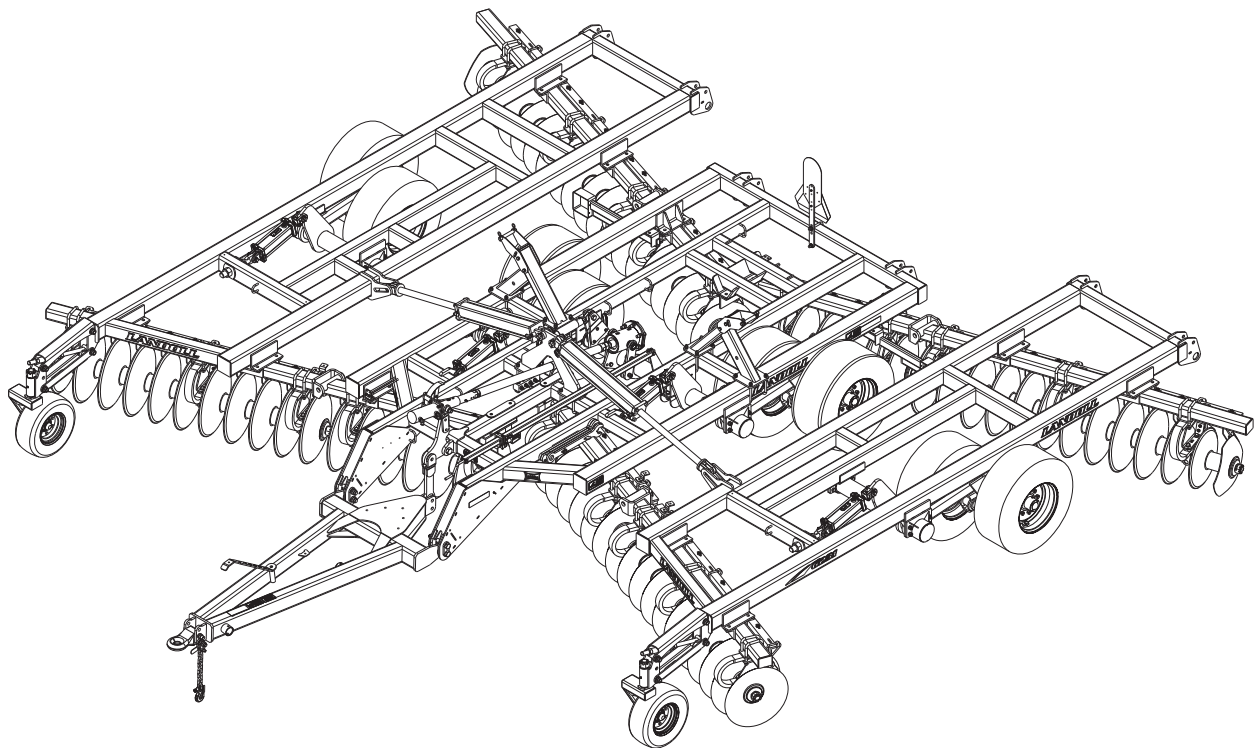




Model 6231

Disc

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

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame [See Figure 1-1](#).

SERIAL NUMBER

The following information will help decode the 6231 Disc serial number.

62H2410100 = xxmysssss

QR CODE DECAL

The 6200 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. 62 for Disc)
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.

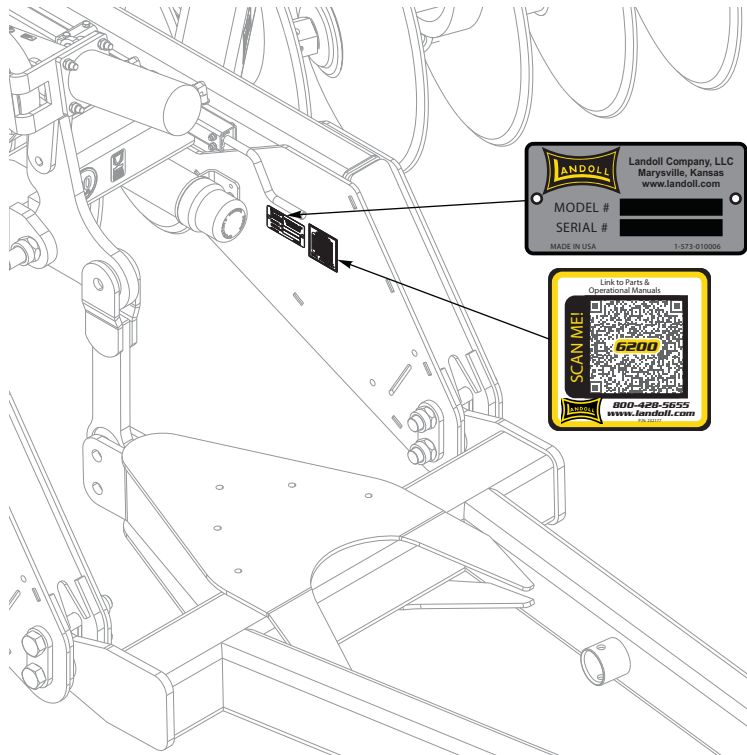


Figure 1-1: Data Plate and QR Code Location

Manuals for 6231 Disc

Manual Number	Manual Type
F-832	6231 Disc Operator's Manual
F-833	6231 Disc Parts Manual

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9 Glossary

Center Frame & Wing Assembly



Center Frame & Wing Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	44
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	56
4	1-516-010001-27	NUT,HX SLOT 1-1/2-6 ZP	4
5	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	8
6	1-654-010032-05	SCREW HEX CAP 3/4-10X2 GR8	50
7	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
8	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
9	116100	WASHER 1-1/4 NAR FL ZP/CD	8
10	141266	WASHER, THRUST 1-1/2	4
11	140533	GANG WRENCH	2
12	158299	PIN, 1X7-5/16	2
13	1-557-010013	PIN, HAIR 3/16 DIA	4
14	70239854	PIN QUICK HITCH	1
15	192887	PIN, HINGE	4
16	141244	PIN, FOLD	4
17	144115	PIN, GROOVED ALLOY 1/2X2-1/4	4
18	127712	PIN SPRING SLOTTED 3/8X2-1/4	4
19	150076	MANUAL TUBE (4-1/4"ID)	1
20	192834	WRENCH, HITCH ADJUSTMENT	1
21	192800	MOUNT, FOLD CYLINDER WC	2
22	191475	MOUNT, FOLD CYLINDER 21-29	1
23	192811	BRACKET, WING STABILIZER	4
24	191485	BRACKET, WING STABILIZER	4
25	2-102-010037	U-BOLT CENTER SCRAPER	10
26	141269	U-BOLT, WING STABILIZER	4
27	141228	U-BOLT 5/8X4X6-1/2	4
28	158841	U-BOLT,5/8X4-11/16X10-3/4	4
29	107-0018	HHCS 5/8-11X6-1/2LG GR5	4
30	155564	WRENCH, ADJUSTMENT	1
31	191479	WING STABILIZER 21-29	2
32	191480	WING STABILIZER 30-36	2
33	191486	STOP, WING	4
34	189470	FRAME, CENTER 21-29	1
35	189471	FRAME, CENTER 30-36	1
36	189472	FRAME, WING RIGHT 21	1
36	189474	FRAME, WING RIGHT 23	1
36	189476	FRAME, WING RIGHT 26,30	1
36	189478	FRAME, WING RIGHT 29', 33'	1
36	189498	FRAME, WING RIGHT 36' WLDMT	1
37	189473	FRAME, WING LEFT 21	1
37	189475	FRAME, WING LEFT 23	1
37	189477	FRAME, WING LEFT 26,30	1
37	189479	FRAME, WING LEFT 29', 33'	1
37	189499	FRAME, WING LEFT 36'	1

Center Frame & Wing Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
38	141274	LOCKOUT, 1-3/8 ROD X 10 WLDMT	2
39	104358	L PIN,CYL STOP	2
40	1-557-010403	HAIRPIN 1/8	2
41	140599	BEARING, FLANGE 1-1/2"	8
42	243729	SCREW,HEXCAP1/4-20X5-1/2UNCGR5	1

[illegible]

Center Frame Lift Assembly 6231-21'-29'

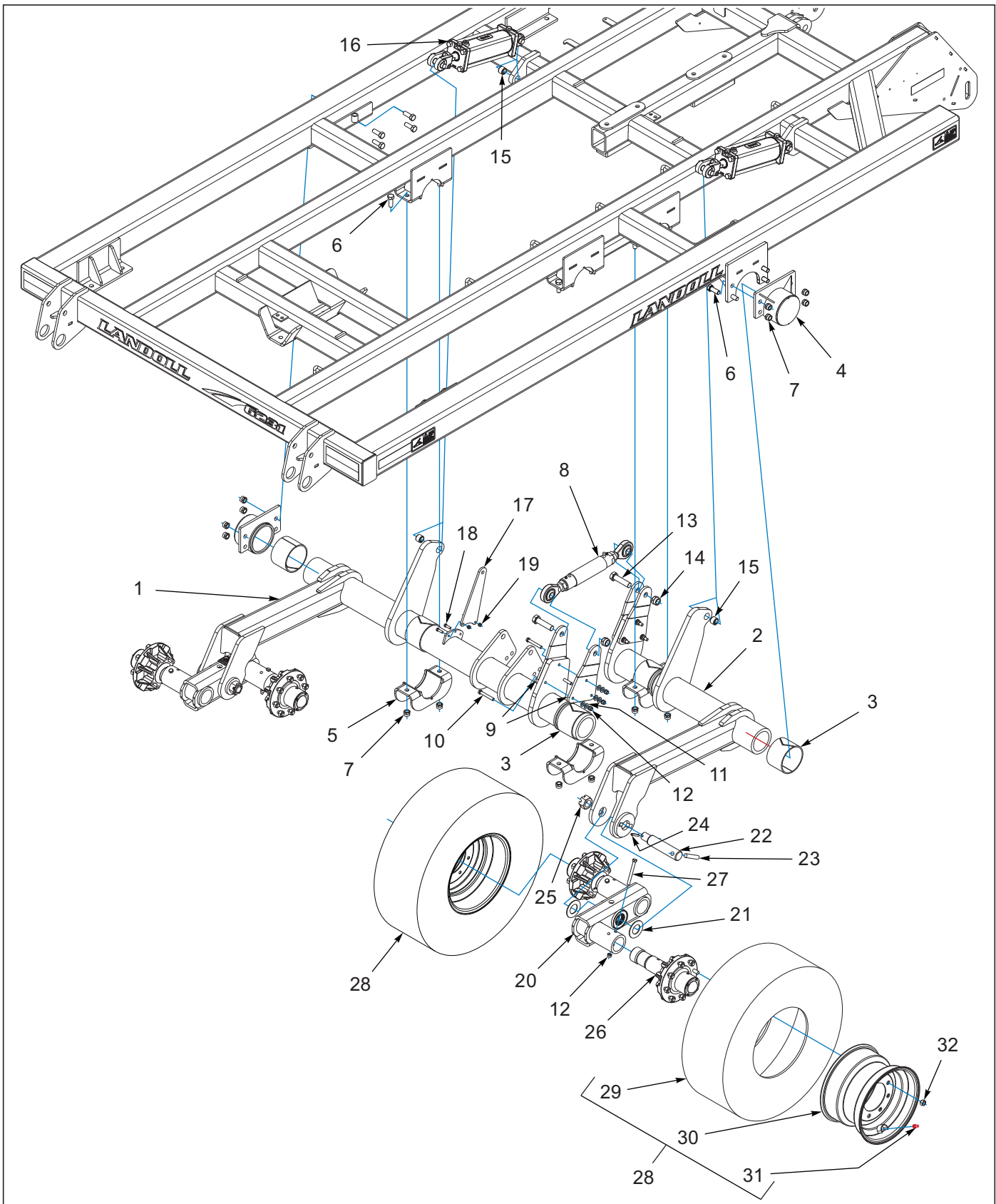


Figure 1-2: Center Frame Lift Assembly 6231-21'-29'

Center Frame Lift Assembly 6231-21'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	----	CENTER FRAME LIFT ASSEMBLY 6231-21'-23'	*	
--	----	CENTER FRAME LIFT ASSEMBLY 6231-26'-29'	*	
1	191495	LIFT, CENTER LEFT NC WLDMT	1	1
2	191494	LIFT, CENTER RIGHT NC WLDMT	1	1
3	140519	BEARING, UHMW 4IN	5	5
4	141209	BEARING CAP, LIFT WLDMT	2	2
5	141234	WLDMT, BEARING CAP LIFT	3	3
6	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	14	14
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	14	14
8	158844	RAD ROD, LIFT ASSY (SEE PAGE 1-23)	1	1
9	171063	PLATE, OFFSET	4	4
10	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	6	6
11	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12	12
12	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10	10
13	1-654-010065-13	SCREW, HX CP 1-8UNC X 4 GR5	2	2
14	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2	2
15	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4	4
16	247547	CYLINDER, 4 X 10, REPHASE (AFTER 04/15/2024) (SEE PAGE 5-3)	2	2
16	140470	CYLINDER 4X10 REPHASE (BEFORE 04/15/2024) (SEE PAGE 5-4)	2	2
17	164124	MOUNT, DEPTH CONTROL	1	1
18	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2	2
19	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2	2
20	198344	WALKING BEAM ASSY 3" (6231-23'-29') (SEE PAGE 1-17)	2	2
21	171070	WASHER, THRUST 2	4	4
22	157019	SPINDLE, WALKING BEAM	2	2
23	156992	PIN, WALKING BEAM SPINDLE	2	2
24	127712	PIN SPRING SLOTTED 3/8X2-1/4	2	2
25	119118	NUT 1-1/2-12UNF HEX SLOTTEDZP	2	2
26	156972	HUB & SPINDLE ASSY, 8 BOLT (BEFORE 2-1-2020) (SEE PAGE 1-19)	4	4
26	223440	ASSY, 8 BOLT HUB & SPINDLE (AFTER 2-1-2020) (SEE PAGE 1-21)	4	4
27	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4	4
28	184708	TIRE ASSY,320/70R15,8 BOLTWHL (INCLUDES ITEMS 29-31)	4	--
28	221272	BKT 380 TIRE&WHL ASSY POS 1.5" (INCLUDES ITEMS 29-31)	--	4
29	204385	FIRESTONE RADIAL 320/70R15 (USED WITH 184708)	4	--
29	221270	BKT TIRE 380/55R 16.5 IMP (USED WITH 221272)	--	4
30	140548	WHEEL, 15 X 10 LB 8 BOLT (USED WITH 184708)	4	--
30	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 221272)	--	4
31	TR575	VALVE STEM TUBELESS TIRE	4	4
32	102600	NUT,WHEEL BOLT, 5/8	32	32

Center Frame Lift Assembly 6231-30'-36' Before 2-15-2020

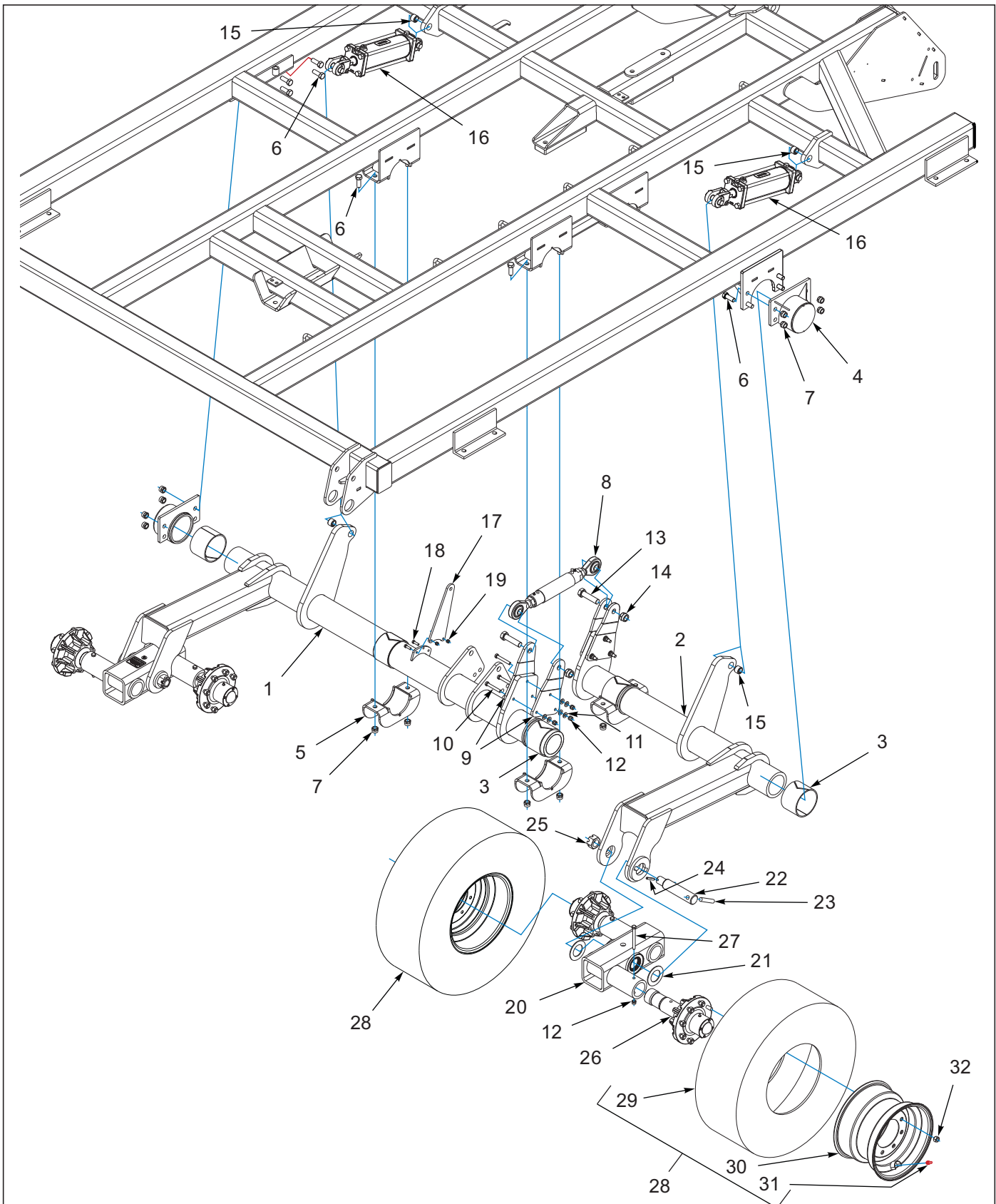


Figure 1-3: Center Frame Lift Assembly 6231-30'-36' Before 2-15-2020

Center Frame Lift Assembly 6231-30'-36' Before 2-15-2020

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	191497	LIFT, CENTER LEFT-WC WLDMT	1
2	191496	LIFT, CENTER RIGHT-WC WLDMT	1
3	140519	BEARING, UHMW 4IN	5
4	141209	BEARING CAP, LIFT WLDMT	2
5	141234	WLDMT, BEARING CAP LIFT	3
6	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	14
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	14
8	158844	RAD ROD, LIFT ASSY (SEE PAGE 1-23)	1
9	171063	PLATE, OFFSET	4
10	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	6
11	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
12	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
13	1-654-010065-13	SCREW, HX CP 1-8UNC X 4 GR5	2
14	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
15	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
16	247547	CYLINDER, 4 X 10, REPHASE (AFTER 04/15/2024) (SEE PAGE 5-3)	2
16	140470	CYLINDER 4X10 REPHASE (BEFORE 04/15/2024) (SEE PAGE 5-4)	2
17	164124	MOUNT, DEPTH CONTROL	1
18	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
19	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
20	198338	WALKING BEAM ASSY 3" (SEE PAGE 1-17)	2
21	164563	WASHER, THRUST 2-1/2	4
22	156991	SPINDLE, WALKING BEAM	2
23	156992	PIN, WALKING BEAM SPINDLE	2
24	127712	PIN SPRING SLOTTED 3/8X2-1/4	2
25	119118	NUT 1-1/2-12UNF HEX SLOTTEDZP	2
26	156972	HUB & SPINDLE ASSY, 8 BOLT (BEFORE 2-1-2020) (SEE PAGE 1-19)	4
26	223440	ASSY, 8 BOLT HUB & SPINDLE (AFTER 2-1-2020) (SEE PAGE 1-21)	4
27	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
28	221272	BKT 380 TIRE&WHL ASSY POS 1.5" (INCLUDES ITEMS 29-31) (6231-30'-36' BEFORE 1-1-2021)	4
28	215351	TIRE&WHL ASSY, VF410/50R16.5 (INCLUDES ITEMS 29-31) (6231-30'-36' AFTER 1-1-2021)	4
29	221270	BKT TIRE 380/55R 16.5 IMP (USED WITH 221272)	4
29	215352	TIRE, VF410/50R16.5 (USED WITH 215351)	4
30	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 221272)	4
30	157001	WHL 16.5X12NEG.51 OFST,8BOLT (USED WITH 215351)	1
31	TR575	VALVE STEM TUBELESS TIRE	4
32	102600	NUT,WHEEL BOLT, 5/8	32

Center Frame Lift Assembly 6231-30'-36' After 2-15-2020

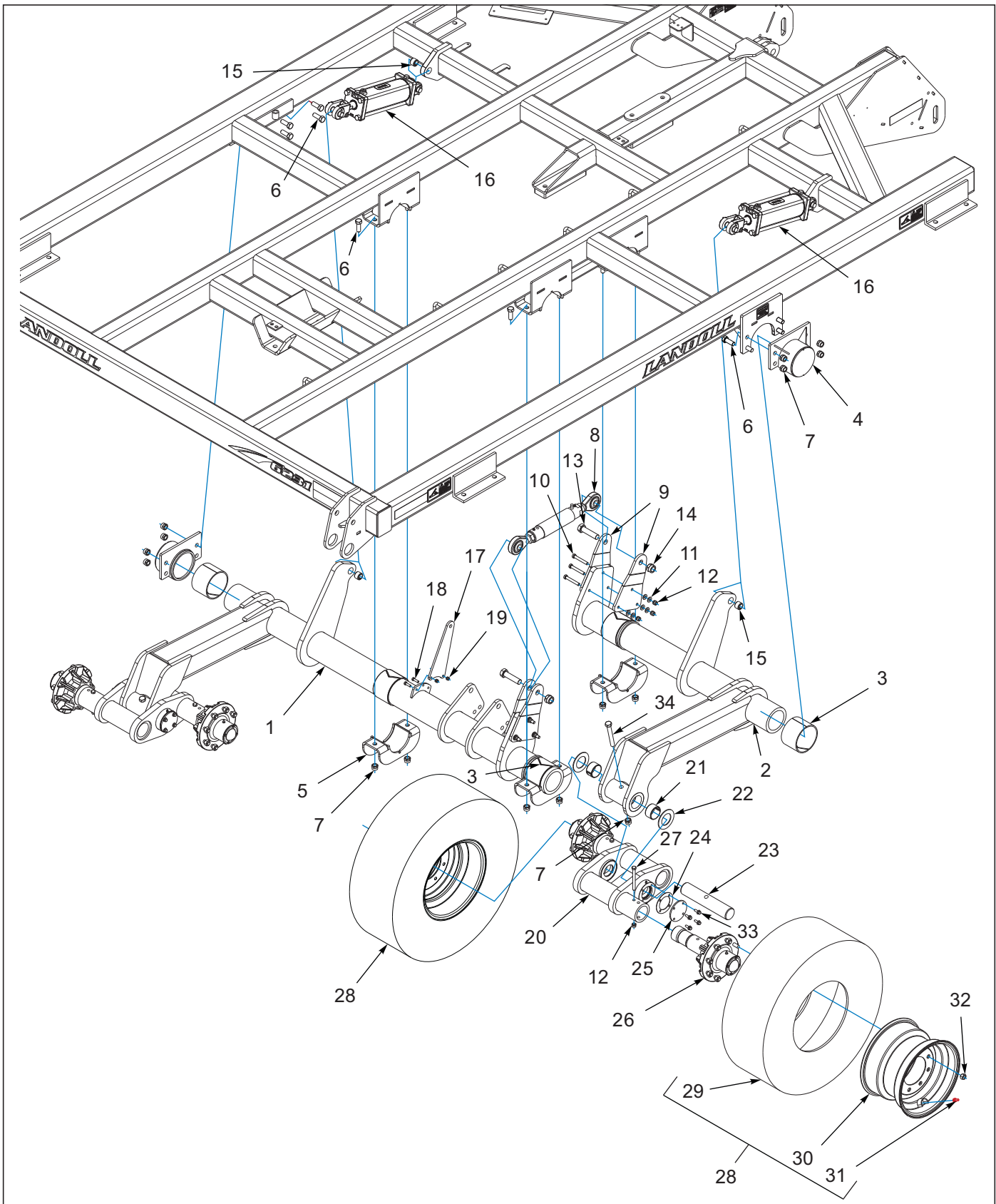


Figure 1-4: Center Frame Lift Assembly 6231-30'-36' After 2-15-2020

Center Frame Lift Assembly 6231-30'-36' After 2-15-2020

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	223531	LIFT, CENTER LEFT-WC WLDMT	1
2	223530	LIFT, CENTER RIGHT-WC WLDMT	1
3	140519	BEARING, UHMW 4IN	5
4	141209	BEARING CAP, LIFT WLDMT	2
5	141234	WLDMT, BEARING CAP LIFT	3
6	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	14
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	14
8	158844	RAD ROD, LIFT ASSY (SEE PAGE 1-23)	1
9	171063	PLATE, OFFSET	4
10	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	6
11	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
12	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
13	1-654-010065-13	SCREW, HX CP 1-8UNC X 4 GR5	2
14	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
15	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
16	247547	CYLINDER, 4 X 10, REPHASE (AFTER 04/15/2024) (SEE PAGE 5-3)	2
16	140470	CYLINDER 4X10 REPHASE (BEFORE 04/15/2024) (SEE PAGE 5-4)	2
17	164124	MOUNT, DEPTH CONTROL	1
18	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
19	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
20	223526	ASSY, WALKER 3SP/2-1/2 PIN (SEE PAGE 1-17)	2
21	198351	CONNEX, 2-3/4 X 2-1/2 X 1-1/2L	4
22	164563	WASHER, THRUST 2-1/2	4
23	223528	SPINDLE, WALKBEAM,2-1/2X12-1/2	2
24	217646	GASKET, ENDCAP	4
25	217568	ENDCAP, WALKER 2-1/2"	4
26	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 1-21)	4
27	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
28	221272	BKT 380 TIRE&WHL ASSY POS 1.5" (INCLUDES ITEMS 29-31) (6231-30'-36' BEFORE 1-1-2021)	4
28	215351	TIRE&WHL ASSY, VF410/50R16.5 (INCLUDES ITEMS 29-31) (6231-30'-36' AFTER 1-1-2021)	4
29	221270	BKT TIRE 380/55R 16.5 IMP (USED WITH 221272)	4
29	215352	TIRE, VF410/50R16.5 (USED WITH 215351)	4
30	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 221272)	4
30	157001	WHL 16.5X12NEG.51 OFST,8BOLT (USED WITH 215351)	1
31	TR575	VALVE STEM TUBELESS TIRE	4
32	102600	NUT,WHEEL BOLT, 5/8	32
33	219795	SCREW, HEX FLANGE HD, 3/8 X 1	16
34	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5	2

Wing Lift Assembly 6231-21

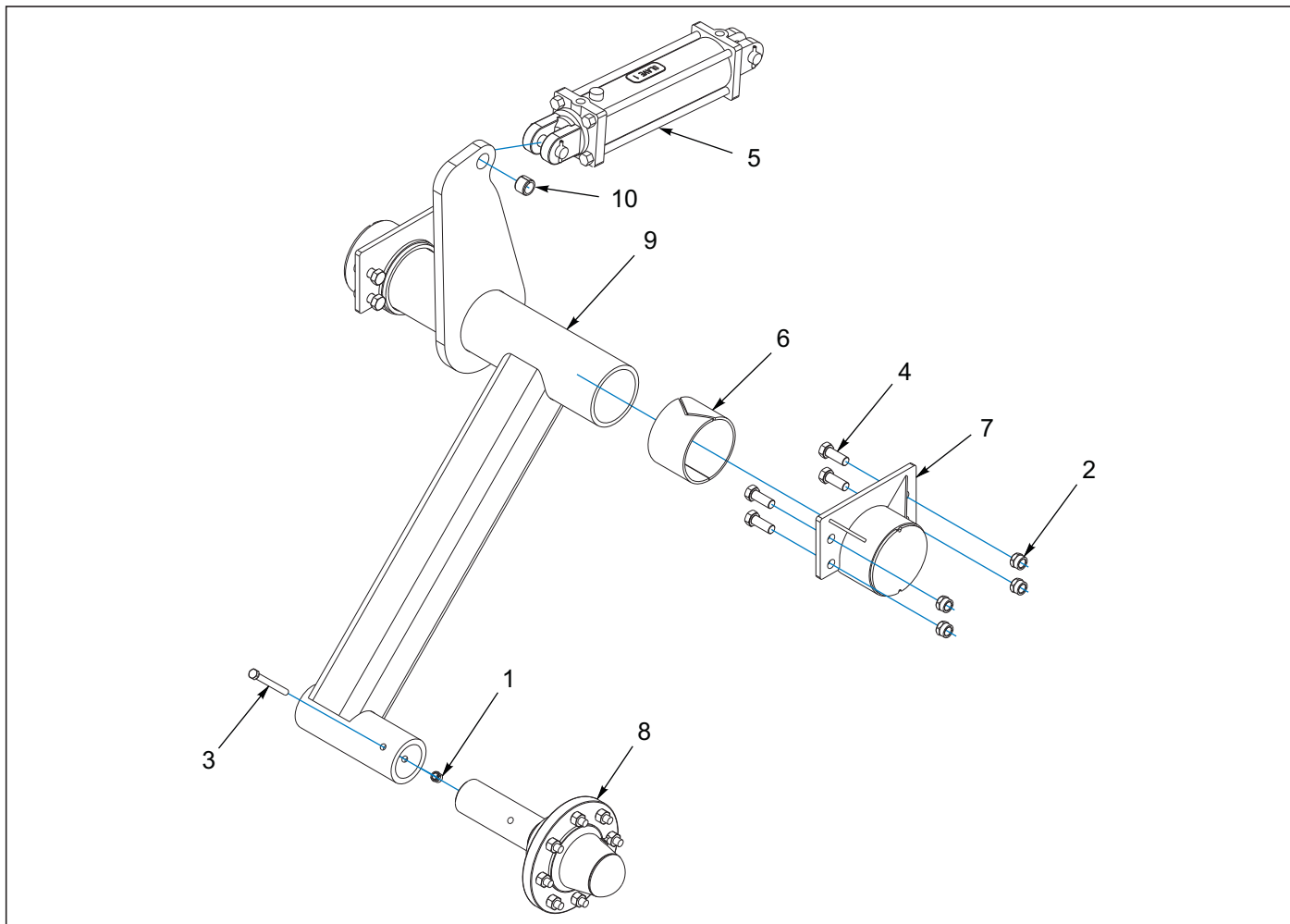


Figure 1-5: Wing Lift Assembly 6231-21

Wing Lift Assembly 6231-21

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
2	1-512-010005-15	NUT, HEX SLFLKG, 3/4-10 UNC X 2 GR6	8
3	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	1
4	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	8
5	247546	CYLINDER, 3-3/4 X 10, REPHASE (AFTER 05-10-2024) (SEE PAGE 5-5)	2
5	140471	CYLINDER 3-3/4X10 REPHASE (BEFORE 05-10-2024) (SEE PAGE 5-6)	2
6	140519	BEARING, UHMW 4IN	2
7	141209	BEARING CAP, LIFT	2
8	223440	ASSY, 8 BOLT HUB & SPINDLE (AFTER 02-01-2020) (SEE PAGE 1-21)	1
8	156972	HUB & SPINDLE ASSY, 8 BOLT (BEFORE 02-01-2020) (SEE PAGE 1-19)	1
9	191460	LIFT, WING RIGHT	1
9	191461	LIFT, WING LEFT (NOT SHOWN)	1
10	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	1

[illegible]

Wing Lift Assembly 6231-23'-29', 30'-36' (BEFORE 02-15-2020)

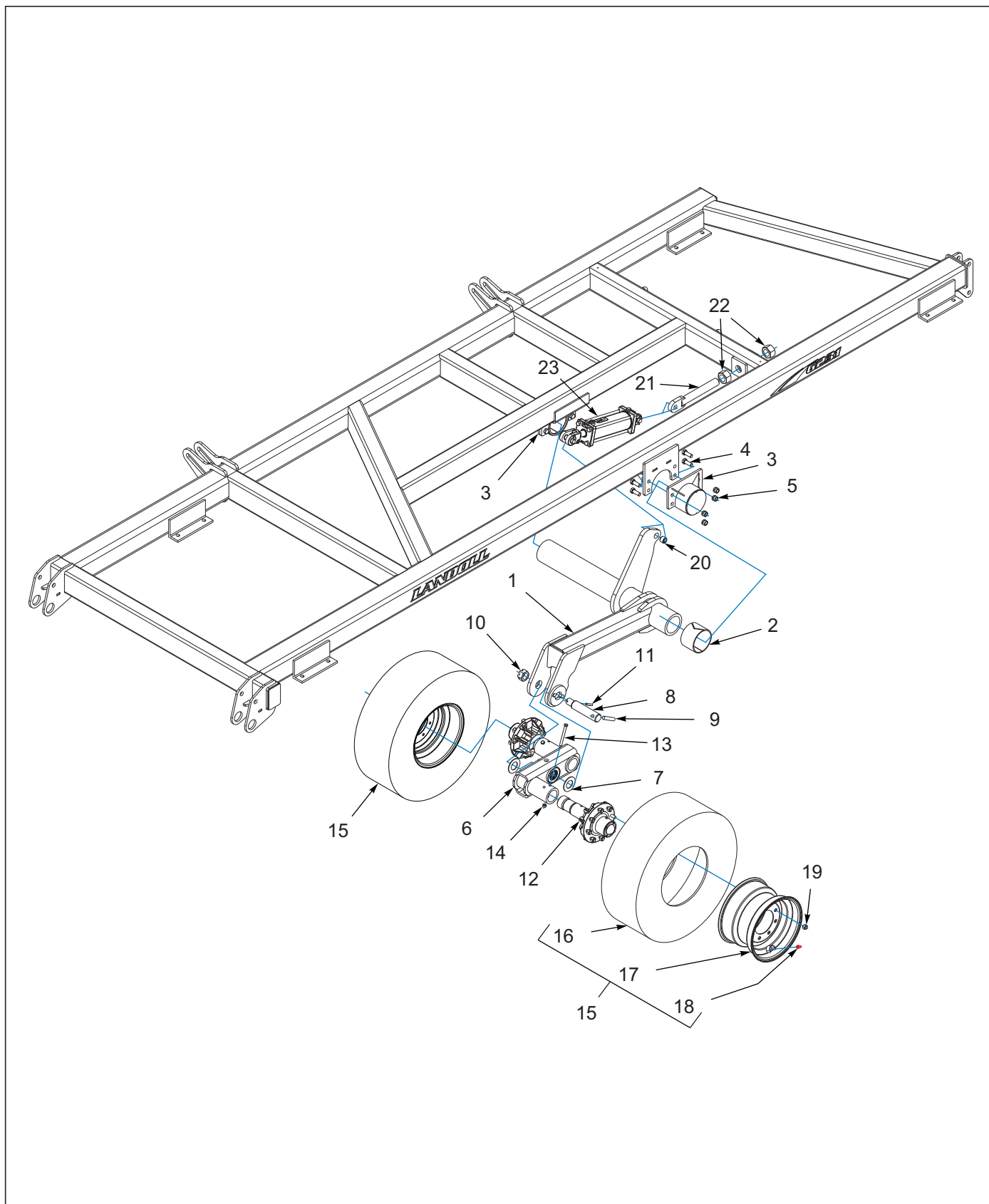


Figure 1-6: Wing Lift Assembly 6231-23'-29', 30'-36' (BEFORE 02-15-2020)

Wing Lift Assembly 6231-23'-29', 30'-36' (BEFORE 02-15-2020)

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	-----	Wing Lift Assembly 6231-23'	*		
--	-----	Wing Lift Assembly 6231-26'-29'	*		
--	-----	Wing Lift Assembly 6231-30'-36' (BEFORE 2-15-2020)	*		
1	191499	LIFT, WING LEFT WLDMT	1	1	1
1	191498	LIFT, WING RIGHT WLDMT (SHOWN)	1	1	1
2	140519	BEARING, UHMW 4IN	4	4	4
3	141209	BEARING CAP, LIFT WLDMT	4	4	4
4	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	8	8	8
5	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	8	8	8
6	198344	WALKING BEAM ASSY 3" (6231-30'-36' BEFORE 2-15-2020) (SEE PAGE 1-17)	2	2	2
7	171070	WASHER, THRUST 2	4	4	4
8	157019	SPINDLE, WALKING BEAM	2	2	2
9	156992	PIN, WALKING BEAM SPINDLE	2	2	2
10	119118	NUT 1-1/2-12UNF HEX SLOTTEDZP	2	2	2
11	127712	PIN SPRING SLOTTED 3/8X2-1/4	2	2	2
12	156972	HUB & SPINDLE ASSY, 8 BOLT (BEFORE 2-1-2020) (SEE PAGE 1-19)	4	4	4
12	223440	ASSY, 8 BOLT HUB & SPINDLE (AFTER 2-1-2020) (SEE PAGE 1-21)	4	4	4
13	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4	4	4
14	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4
15	184708	TIRE ASSY,320/70R15,8 BOLTWHL (INCLUDES ITEMS 30-32)	4	--	--
15	171010	TIRE & WHEEL ASSY,380/55RX16.5 (INCLUDES ITEMS 30-32) (TILL 8-16-2019)		4	4
15	221272	BKT 380 TIRE&WHL ASSY POS 1.5" (6231-30'-36' BEFORE 1-1-2021) (6231-26'-29' FROM 8-16-2019) (INCLUDES ITEMS 30-32)	--	4	4
16	184706	FIRESTONE TIRE 12.5L X 15 FI (USED WITH 184708) (BEFORE 10-18-2016)	4	4	--
16	221270	BKT TIRE 380/55R 16.5 IMP (USED WITH 221272) (AFTER 10-18-2016)	--	4	4
16	204385	FIRESTONE RADIAL 320/70R15 (USED WITH 184708)	4	4	--
16	165236	TIRE 380/55R 16.5 IMP (USED WITH 171010)	--	4	4
17	140548	WHEEL, 15 X 10 LB 8 BOLT (USED WITH 184708)	4	--	--
17	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 171010 & 221272)	--	4	4
18	TR575	VALVE STEM TUBELESS TIRE	4	4	4
19	102600	NUT,WHEEL BOLT, 5/8	32	32	32
20	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2	2	2
21	159955	ROD, CYLINDER ANCHOR WLDMT	2	2	2
22	159954	NUT HEX 1-3/4-5UNC GR2	4	4	4
23	247546	CYLINDER, 3-3/4 X 10, REPHASE (AFTER 05-10-2024) (SEE PAGE 5-5)	2	2	2
23	140471	CYLINDER 3-3/4X10 REPHASE (BEFORE 05-10-2024) (SEE PAGE 5-6)	2	2	2

Wing Lift Assembly 6231-30'-36' After 2-15-2020

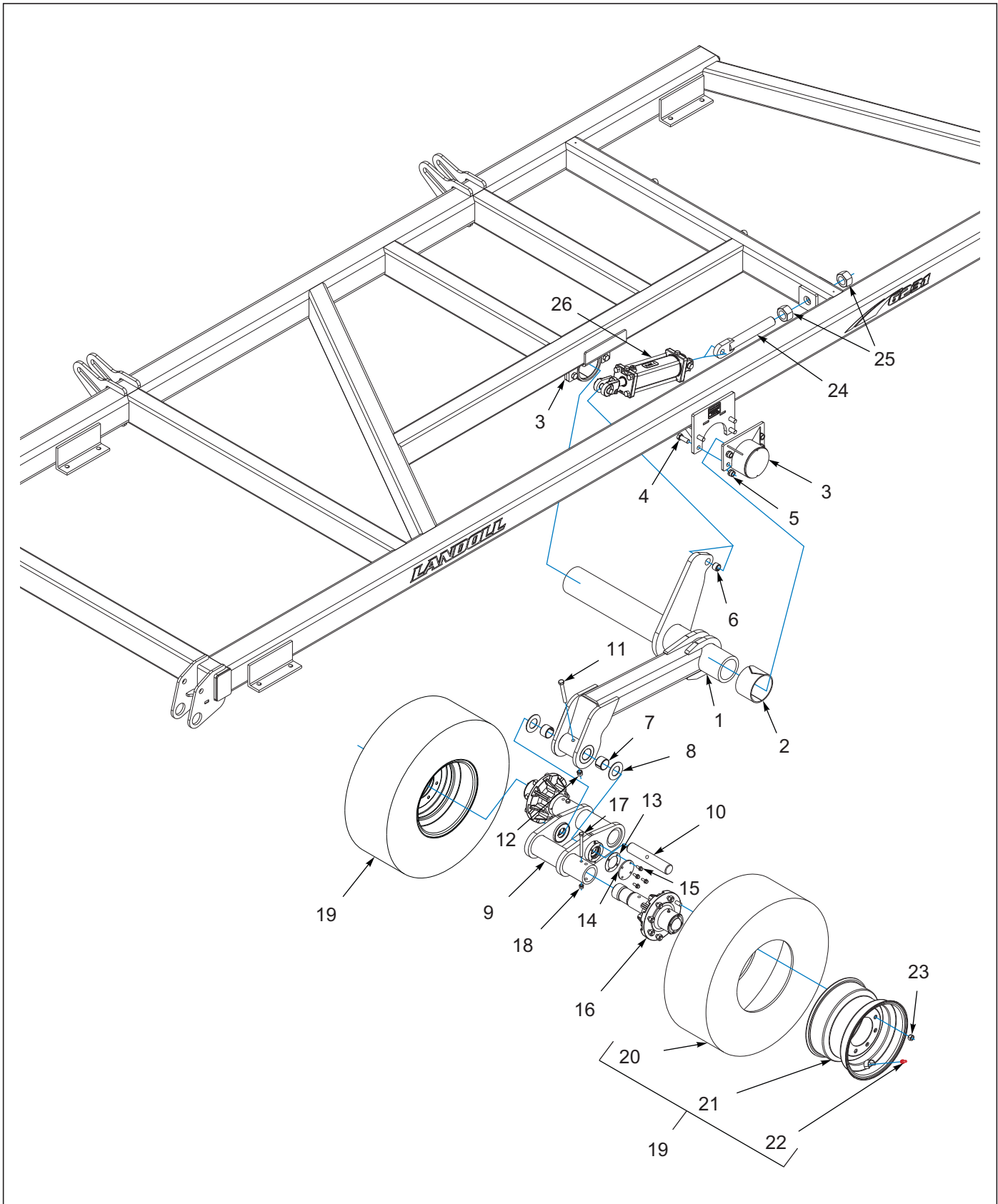


Figure 1-7: Wing Lift Assembly 6231-30'-36' After 2-15-2020

Wing Lift Assembly 6231-30'-36' After 2-15-2020

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	-----	Wing Lift Assembly 6231-30'-36'	
1	223535	LIFT, WING LEFT WLDMT	1
1	223534	LIFT, WING RIGHT WLDMT (SHOWN)	1
2	140519	BEARING, UHMW 4IN	1
3	141209	BEARING CAP, LIFT WLDMT	2
4	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	8
5	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	8
6	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2
7	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
8	171070	WASHER, THRUST 2	4
9	217591	ASSY, WALKER 3" (SEE PAGE 1-17)	2
10	217593	SPINDLE, WALK BEAM 2"	2
11	1-654-010059-15	SCREW,HEX CAP,5/8-11UNCX5 GR5	2
12	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
13	217627	GASKET, ENDCAP	4
14	217626	ENDCAP, WALKER	4
15	219795	SCREW, HEX FLANGE HD, 3/8 X 1	16
16	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 1-21)	4
17	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
18	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
19	221272	BKT 380 TIRE&WHL ASSY POS 1.5" (6231-30'-36' BEFORE 1-1-2021) (INCLUDES ITEMS 30-32)	4
19	215351	TIRE&WHL ASSY, VF410/50R16.5 (AFTER 1-1-2021) (INCLUDES ITEMS 30-32)	4
20	221270	BKT TIRE 380/55R 16.5 IMP (USED WITH 221272)	4
20	215352	TIRE, VF410/50R16.5 (USED WITH 215351)	4
21	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 221272)	4
21	157001	WHL 16.5X12NEG.51 OFST,8BOLT (USED WITH 215351)	4
22	TR575	VALVE STEM TUBELESS TIRE	4
23	102600	NUT,WHEEL BOLT, 5/8	32
24	159955	ROD, CYLINDER ANCHOR WLDMT	2
25	159954	NUT HEX 1-3/4-5UNC GR2	4
26	247546	CYLINDER, 3-3/4 X 10, REPHASE (AFTER 05-10-2024) (SEE PAGE 5-5)	2
26	140471	CYLINDER 3-3/4X10 REPHASE (BEFORE 05-10-2024) (SEE PAGE 5-6)	2

Walking Beam Assemblies

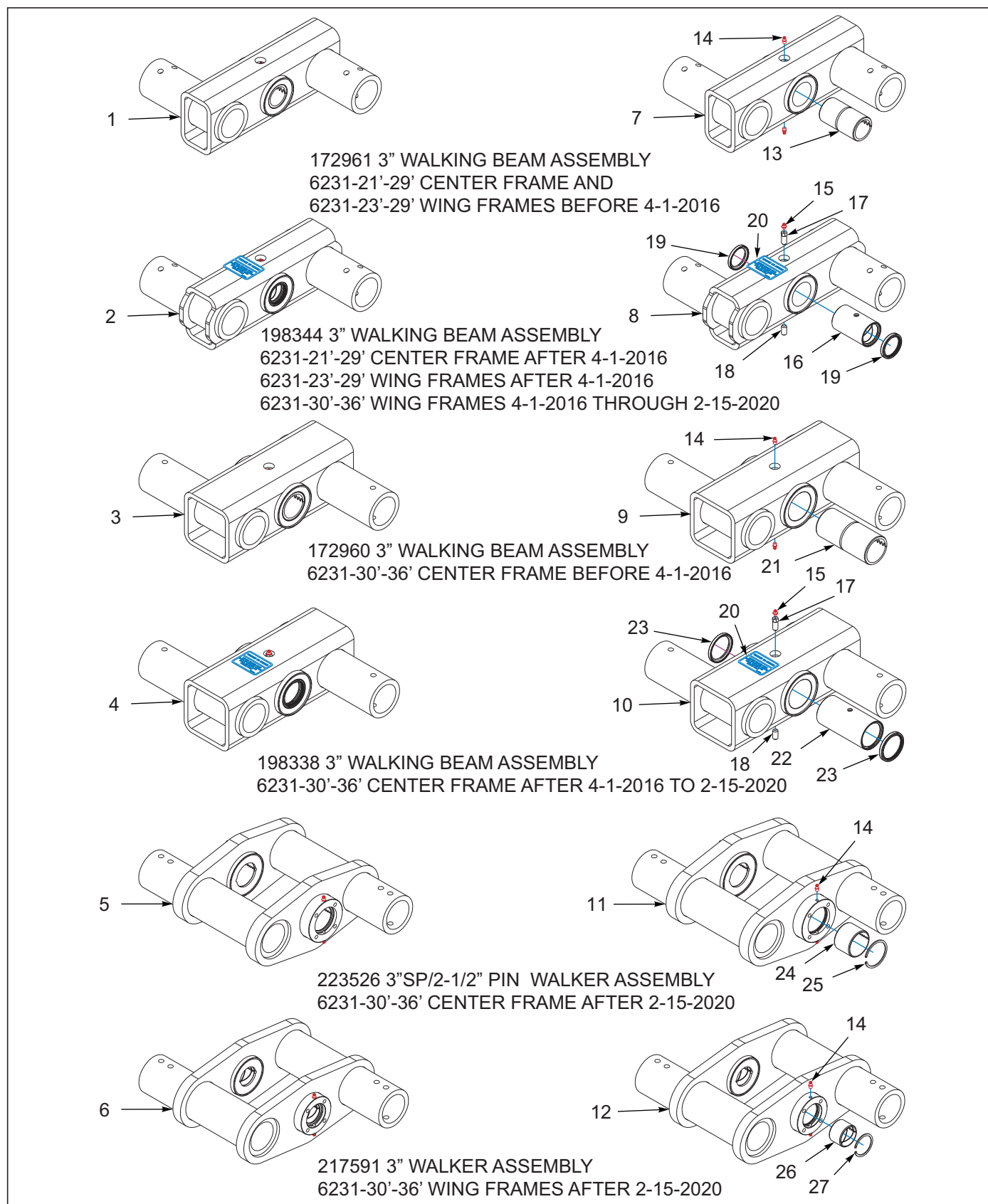


Figure 1-8: Walking Beam Assemblies

Walking Beam Assemblies

ITEM	PART NUMBER	DESCRIPTION	QTY.						
1	172961	WALKING BEAM ASSY 3" (6231-21'-29' CENTER FRAME AND 6231-23'-29' WING FRAMES BEFORE 4-1-2016)	*						
2	198344	WALKING BEAM ASSY 3 (6231-21'-29' CENTER FRAME AND 6231-23'-29' WING FRAMES AFTER 4-1-2016) (6231-30'-36' WING FRAMES 4-1-2016-2-15-2020)	*						
3	172960	WALKING BEAM ASSY 3" (6231-30'-36" CENTER FRAME BEFORE 4-1-2016)	*						
4	198338	WALKING BEAM ASSY 3" (6231-30'-36" CENTER FRAME AFTER 4-1-2016)				*			
5	223526	ASSY, WALKER 3SP/2-1/2 PIN (6231-30'-36' CENTER FRAME AFTER 2-15-2020)						*	
6	217591	ASSY, WALKER 3" (6231-30'-36' WING FRAMES AFTER 2-15-2020)							*
7	172959	WALKING BEAM, 3" SPINDLE WLDMT	1	--	--	--	--	--	--
8	198345	WALKING BEAM WLDMT 3" SPINDLE	--	1	--	--	--	--	--
9	171065	WALKING BEAM, 3 IN SPINDLE	--	--	1	--	--	--	--
10	198339	WALKING BEAM, 3" SPINDLE WLDMT	--	--	--	1	--	--	--
11	223525	WALKING TANDEM2-1/2,3 SP WLDMT	--	--	--	--	1	--	--
12	217547	WALKING TANDEM-3" SP WLDMT	--	--	--	--	--	1	--
13	158903	BUSHING, SPRING 2-1/2X2X4-5/8	1	--	--	--	--	--	--
14	171024	FITTING, GREASE 5/16-24 STR	2	--	2	--	4	4	--
15	1-298-010001-1	ZERK FITTING 1/4 SAE	--	1	--	1	--	--	--
16	228187	ASSY, PIVOT 2 X 4 CONNEX	--	1	--	--	--	--	--
17	212046	SCREW, SET FOR ZERK	--	1	--	1	--	--	--
18	15G816ER	SCREW SET SOC HD CPPT.5-13X1	--	1	--	1	--	--	--
19	198322	SEAL, V17, DOUBLE LIP 2"	--	2	--	--	--	--	--
20	215341	DECAL, GREASE WALKER	--	1	--	1	--	--	--
21	158904	BUSHING, SPRING 3X2-1/2X6-5/8	--	--	1	--	--	--	--
22	228189	ASSY, PIVOT 2-1/2 X 6 CONNEX	--	--	--	1	--	--	--
23	198323	SEAL, V17, DOUBLE LIP 2-1/2"	--	--	--	2	--	--	--
24	217561	BUSHING, SPRING 2-3/4X2-1/2X2	--	--	--	--	2	--	--
25	217560	SNAP RING, INTERNAL 2-3/4	--	--	--	--	2	--	--
26	130052	BUSHING, SPRING 2-1/4X2X1-1/2	--	--	--	--	--	2	--
27	217559	SNAP RING, INTERNAL-2-1/4	--	--	--	--	--	2	--

Hub/Spindle Assembly 156972

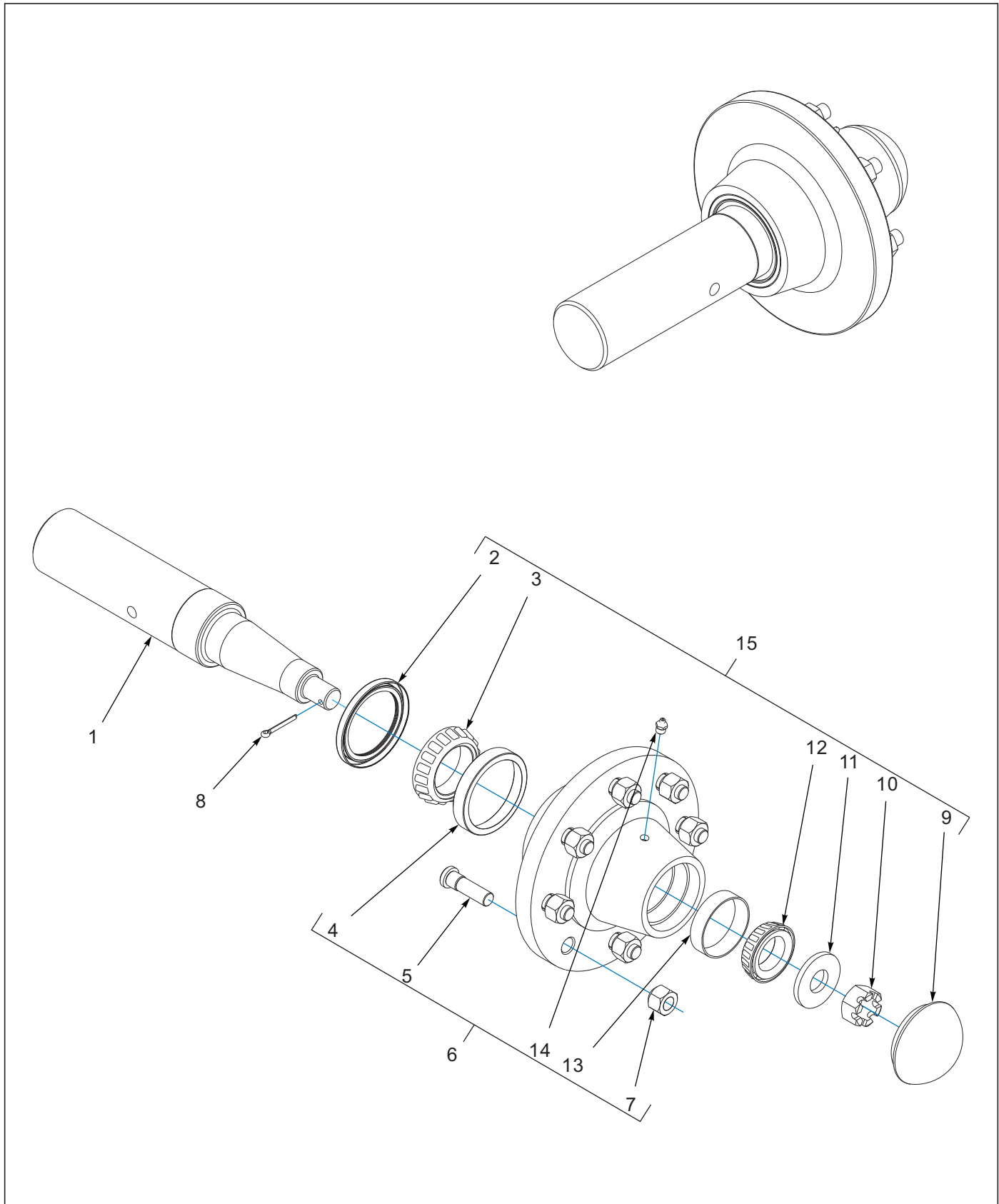


Figure 1-9: Hub/Spindle Assembly 156972

Hub/Spindle Assembly 156972

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	156972	HUB & SPINDLE ASSY, 8 BOLT (BEFORE 2-1-2020)	
1	156973	SPINDLE 3 X 16-1/2	1
2	159970	SEAL,TRIPLE LIP 4 ODX3 IDX3/8	1
3	156979	CONE BEARING - 387AS	1
4	111962	OUTER BEARING CUP L20HD#382A	1
5	4001060	HUB 75-8 BOLTS 5/8-18 STUD	1
6	156974	HUB W/CUPS, 8 BOLT, 7500LBS (INCLUDES ITEMS 4, 5, 7, 13, 14)	1
7	102600	NUT,WHEEL BOLT, 5/8	8
8	1-557-010362-51	PIN, COTTER 3/16X1-1/2	1
9	102601	HUB CAP, 8-BOLT HUB	1
10	1-516-010001-20	NUT, HX SLOT 1-14	1
11	1-861-010005	WASHER, SPINDLE 1	1
12	102498	BEARING CONE,OUTER, 1.625	1
13	102604	BEARING CUP, OUTER	1
14	5000	ZERK FITTING 1/8NPT	1
15	168859	HUB ASSY, EIGHT BOLT (SERVICE KIT ONLY)	

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F-833-2505

Hub/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

Radius Rod Lift Assembly

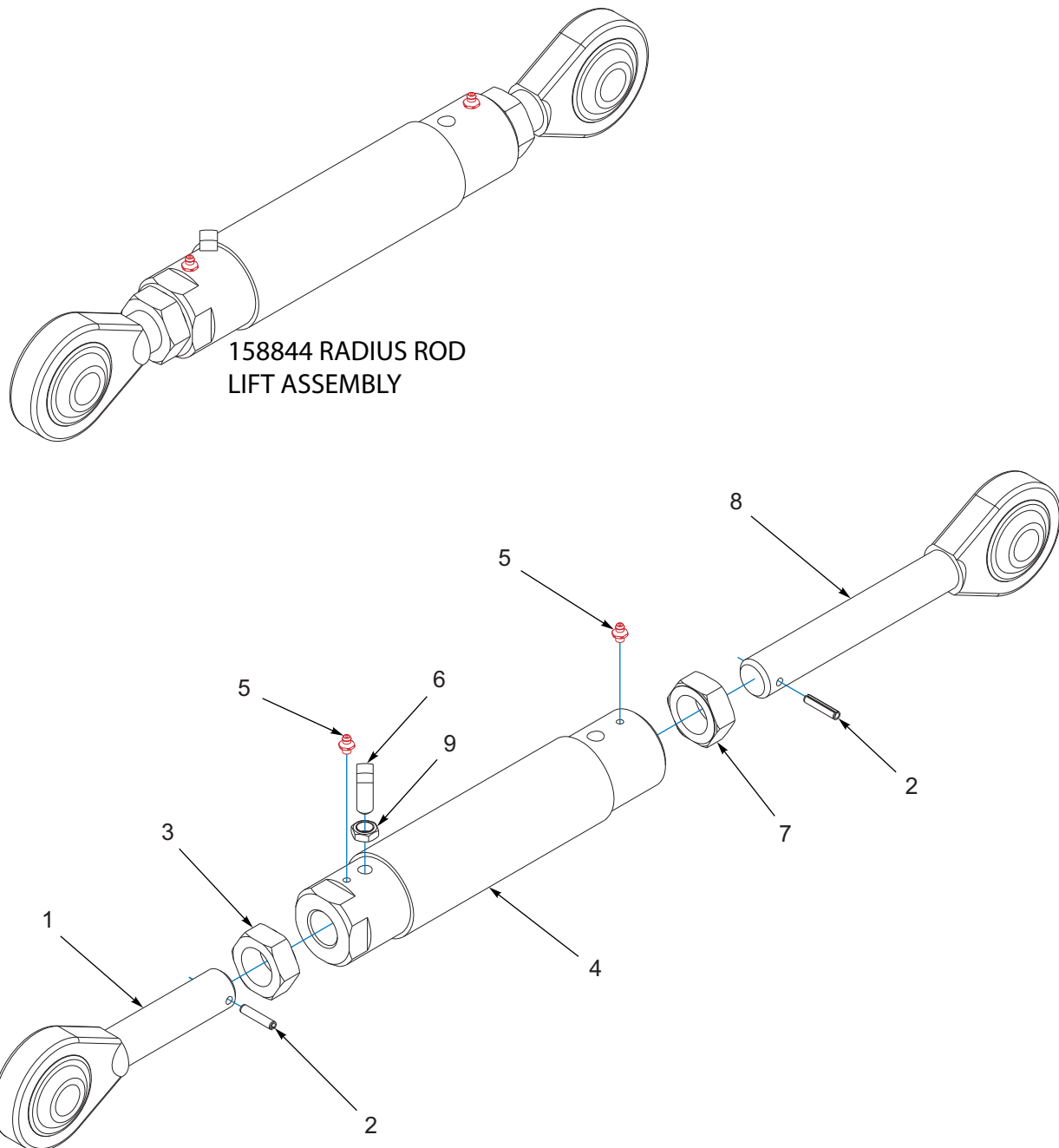


Figure 1-11: Radius Rod Lift Assembly

Radius Rod Lift Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	158844	RAD ROD, LIFT ASSY	
1	159557	SCREW, SHORT, RH RADIUS ROD	1
2	0600-250-01250	ROLL PIN 1/4X1-1/4 LONG	2
3	100823	NUT,HEX JAM,1-1/4-7 GR2	1
4	158843	RADIUS ROD WLDMT 13"	1
5	1-298-010001-1	ZERK FITTING 1/4 SAE	2
6	1-654-010080-2	SCREW SET1/2X1-1/4 SQHD CP PT	1
7	153803	NUT 1-1/4-7 HX JAM,UNC LH GR2	1
8	2-654-010097	SCREW, LH RADIUS ROD	1
9	1-511-010001-05	NUT HEX JAM 1/2-13	1

Gauge Wheel Assembly

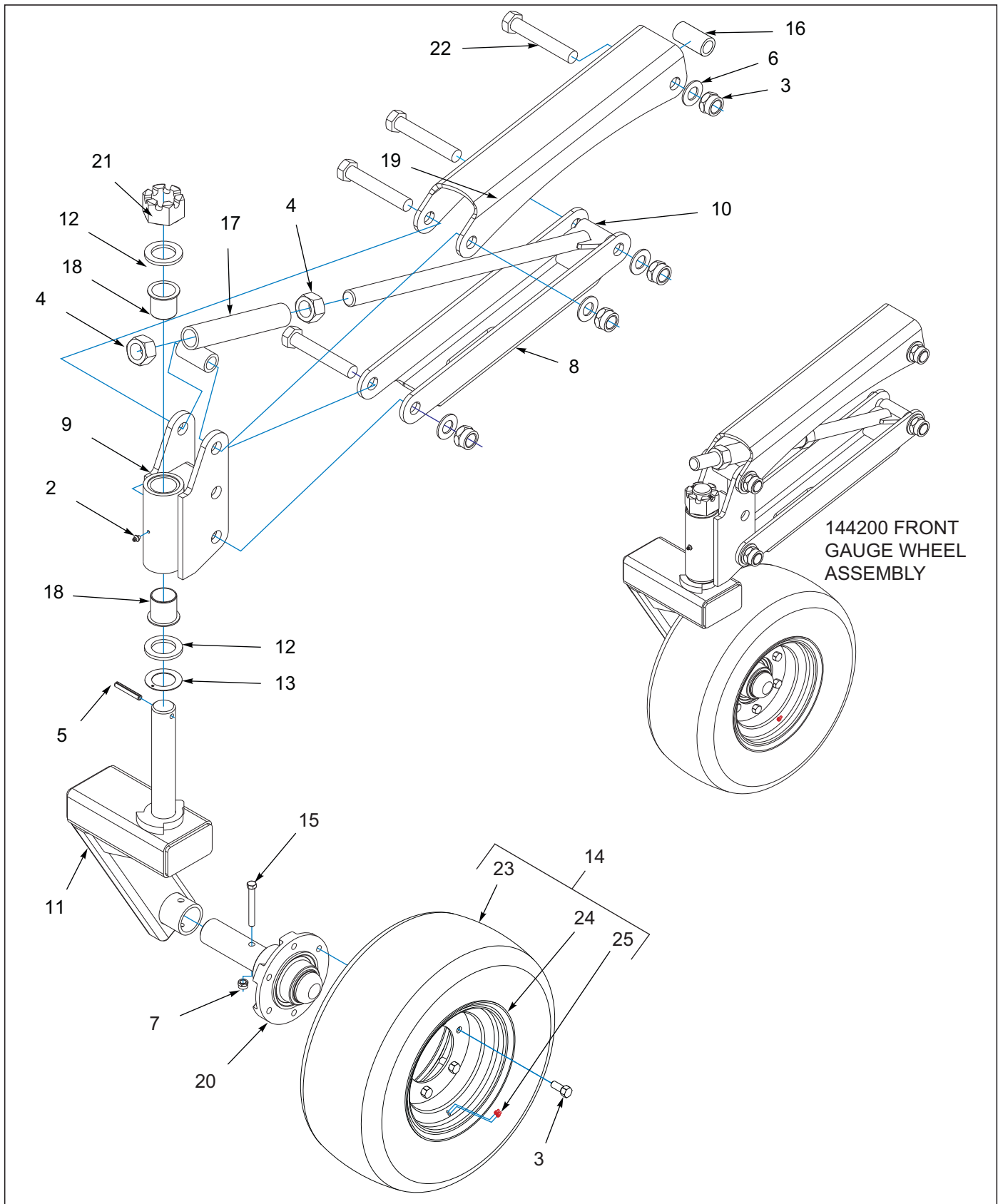


Figure 1-12: Gauge Wheel Assembly

Gauge Wheel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	144200	GAUGE WHEEL ASSY	
1	1-104-010002	WHEEL BOLT1/2X1-3/8 S	6
2	1-298-010001-1	ZERK FITTING 1/4 SAE	1
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	4
4	1-512-010007-16	NUT,HEX 1-1/4-7 GR2 ZP	2
5	1-647-010004257	PIN,SPRING,SLOTTED 3/8X2-1/2	1
6	1-861-010032-24	WASHER FL 1IN NARROW ZP	4
7	101988	NUT,HEXSLF-LKG 7/16-14 GRB	1
8	140658	LINK, GAUGE WHEEL	1
9	140663	HUB, GAUGE WHEEL WLDMT	1
10	140667	ROD WLDMT, GAUGE WHEEL	1
11	140672	AXLE, GAUGE WHEEL WLDMT	1
12	141154	WASHER GANG SHAFT	2
13	141258	WASHER, THRUST 1-3/4	1
14	141271	TIRE AND WHEEL ASSY,FRT YELLOW (INCLUDES ITEMS 23-25)	1
15	141808	SCREW HX CP7/16-14UNCX3-1/2G5	1
16	144198	SPACER, GAUGE WHEEL	1
17	144199	CROSS, GAUGE WHEEL WLDMT	1
18	164533	BEARING, FLANGE 1-3/4	2
19	183910	LINK, GAUGE WHEEL TOP	1
20	224600	HUB & SPINDLE ASSY, 6 BOLT (SEE PAGE 1-27)	1
21	23085	NUT HEX SLOTTED 1 3/4-5	1
22	8-105-010003	HINGE PIVOT BOLT	4
23	160151	TIRE 20.5X8 10/8 PLY	1
24	160155	WHEEL 10X6 6 BOLT	1
25	TR416	VALVE STEM TUBELESS TIRE	1

Hub/Spindle Assembly 224600

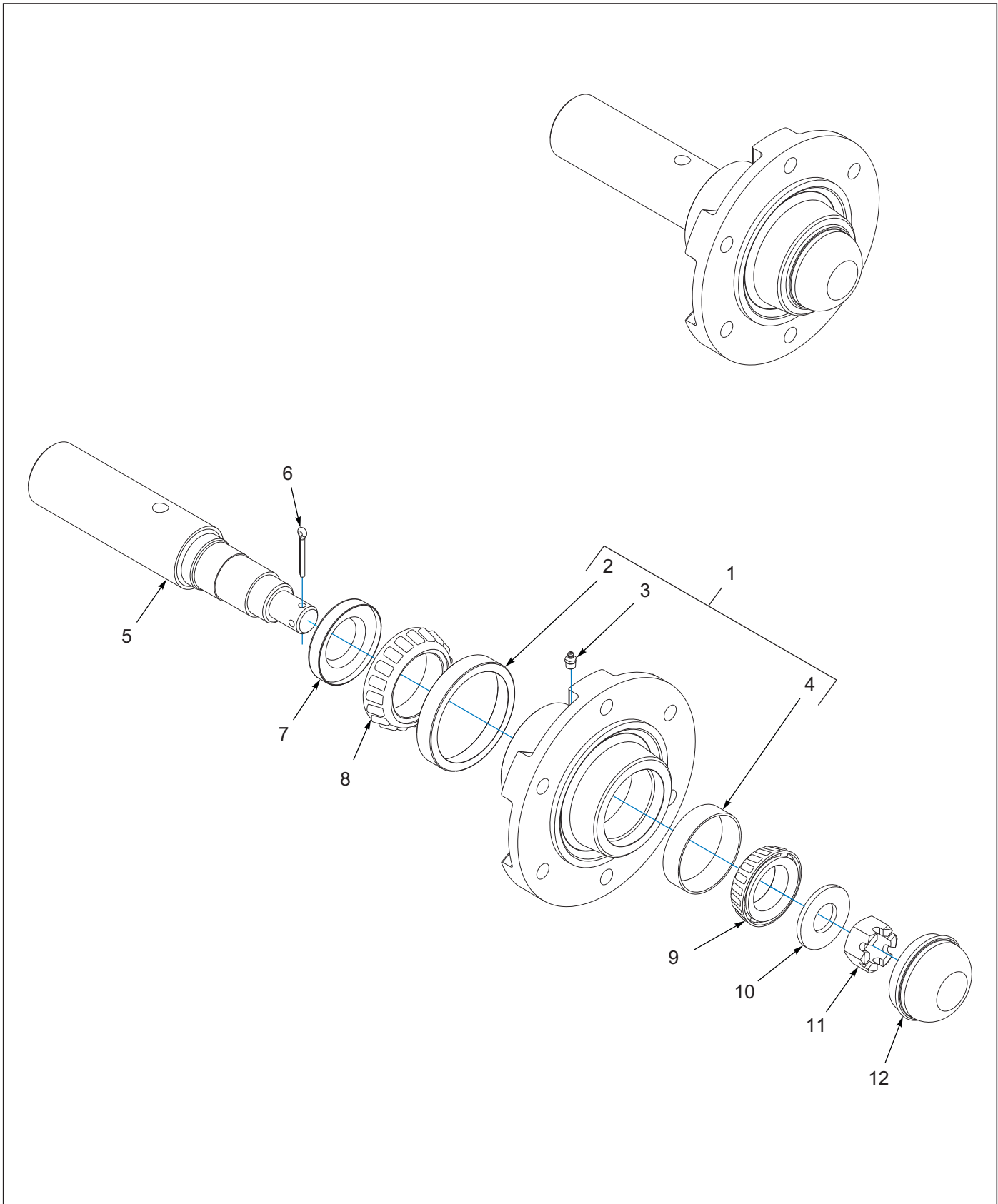


Figure 1-13: Hub/Spindle Assembly 224600

Hub/Spindle Assembly 224600

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	224600	HUB & SPINDLE ASSY, 6 BOLT	
1	1-406-010012	HUB 6 BOLT W/CUPS (INCLUDES ITEMS 2-4)	1
2	1-076-010012	CUP OUTER (INNER SIDE OF HUB)	1
3	1-298-010001-1	ZERK FITTING 1/4 SAE	1
4	1-076-010010	CUP INNER (OUTER SIDE OF HUB)	1
5	141245	SPINDLE, GAUGE WHEEL	1
6	1-557-010362-40	PIN, COTTER 5/32X1-1/4	1
7	1-659-010004	1-5/8 ID GREASE SEAL	1
8	1-076-010009	CONE INNER (INNER SIDE OF HUB)	1
9	1-076-010007	CONE INNER (OUTER SIDE OF HUB)	1
10	1-861-010004	WASHER SPINDLE 7/8	1
11	100966	NUT, HEX SLOTTED 7/8-14	1
12	1-861-010003	WASHER SPINDLE 3/4	1

Hitch Assemblies

Hitch/Leveler Assembly (Before 01-01-2024)

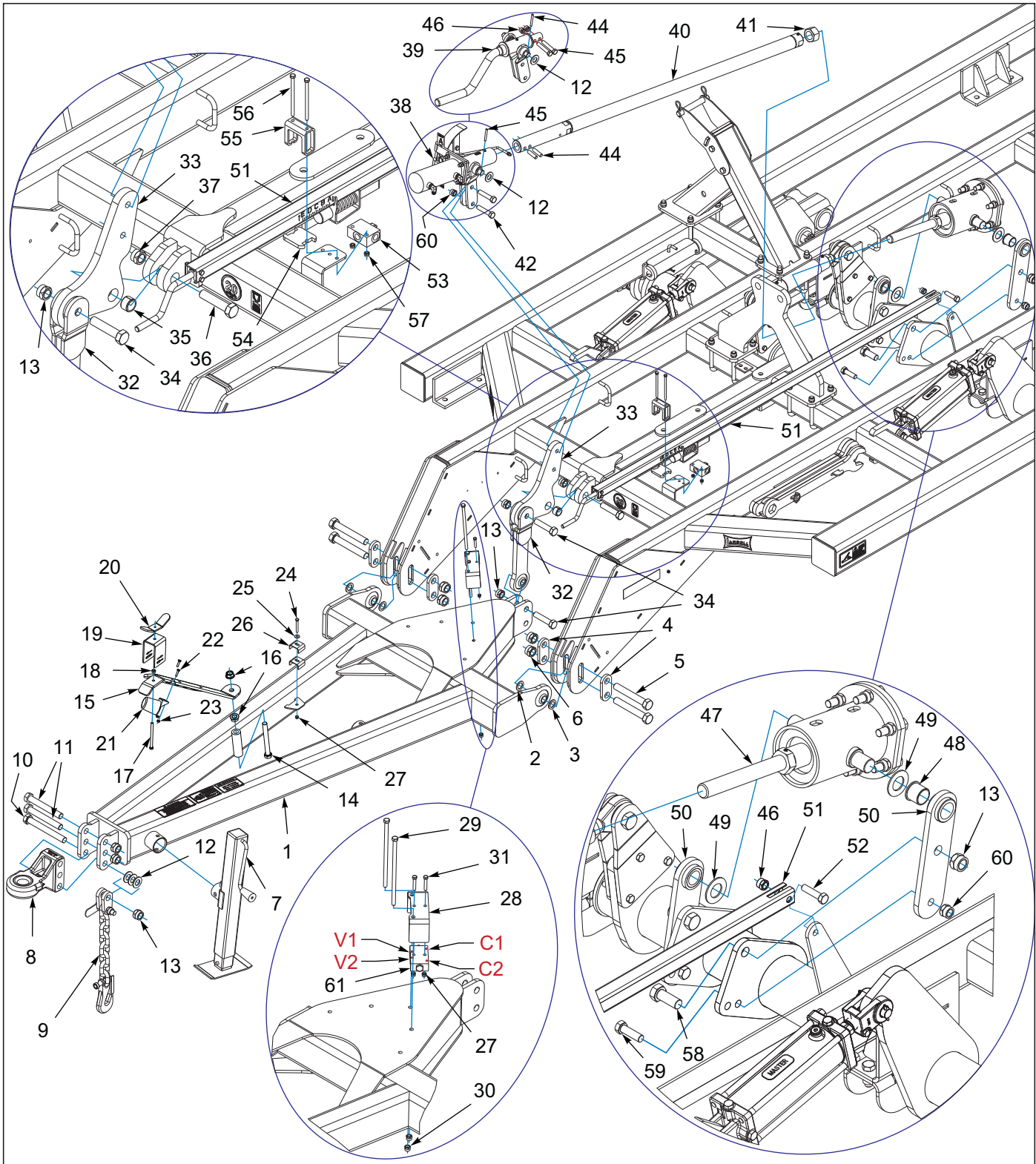


Figure 2-1: Hitch/Leveler Assembly (Before 01-01-2021)

Hitch/Leveler Assembly (Before 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140575	HITCH WLDMT	1
2	141255	BUSHING,MACHINE 1-1/8X14GA	AR
3	141256	BUSHING,MACHINE 1-1/8X10GA	AR
4	141252	PLATE, HITCH MOUNT	4
5	141253	SCREW HEX CAP 1-1/8-7 X 7-1/2	4
6	141254	NUT,HX SELF-LOCKING 1-1/8-7	4
7	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-20)	1
8	189451	HITCH, BALL CAT IV 3-HOLE (SEE PAGE 2-19)	1
9	141434	SAFETY CHAIN 21,000LB (6231-21'-29')	1
9	156950	SAFETY CHAIN, 41,000 LB (6231-30'-36')	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	5
13	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6
14	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	1
15	200829	BRACKET, HOSE HOLDER	1
16	103841	NUT,FLG,LNK,SERRATED 3/4-10UNC	2
17	141807	SCREW 3/8-16UNCX3-1/2 ALLTHRD	1
18	1-512-010007-07	NUT, HEX 3/8-16 GR2 ZP	1
19	141247	CLAMP, HOSE HOLDER	1
20	141249	WING NUT, HOSE HOLDER	1
21	2-368-010287	HARNESS, STOR-A-WAY	1
22	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
23	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
24	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	1
25	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
26	2-181-010001	HOSE CLAMP	3
27	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
28	174695	CLAMP, HOSE HOLDER	1
29	131081	SCREW,HEX CAP 1/2-13X11	2
30	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
31	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	2
32	192898	LINK, LEVELER BALL JOINT WLDMT	1
33	189485	LINK, LEVELER L WLDMT	1
34	141777	SCREW HX CP 1-8UNCX4-1/2 GR5	2
35	2-150-010174	BUSHING,1-5/8X1-1/4X1	2
36	172823	SCREW HX CAP 1-1/4-7X6 GR8	1
37	101385	NUT,HEX SLFLKG,1-1/4-7 GRB	1
38	192869	LEVELER ASSY, HYDRAULIC (SEE PAGE 2-15)	1
39	140525	LEVELER ASSY, MANUAL (SEE PAGE 2-11)	1
40	183914	TUBE, LEVELER 71" WLDMT	1
41	102351	NUT,HEX 1-1/2-6UNC GR2 ZP	1
42	141776	SCREWHXCP 3/4-10UNCX3-1/2GR5B	2
43	140627	PIN, LEVELER	2
44	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	2
45	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	2
46	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
47	183915	TUBE ASSY, LEVELER SPRING (SEE PAGE 2-9)	1
48	140599	BEARING, FLANGE 1-1/2"	2

Hitch/Leveler Assembly (Before 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
49	141266	WASHER, THRUST 1-1/2	2
50	191470	MOUNT, LEVELER SPRING WLDMT (INCLUDES ITEM 48)	2
51	192814	STOP ASSY, DEPTH 84-1/2" (SEE PAGE 2-10)	1
52	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	1
53	185660	VALVE, LIMIT	1
54	165257	PAD, SLIDE	1
55	165265	GUIDE, DEPTH STOP	1
56	1-654-010049-19	SCREW,HEX CP,5/16-18UNCX5 GR5	2
57	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
58	151528	SCREW, HX CP 1-8UNCX2-1/2 GR5	1
59	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	1
60	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	1
61	124696	VALVE,CHK DBL PILOT O-RING	1

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Hitch/Leveler Assembly (After 01-01-2024)

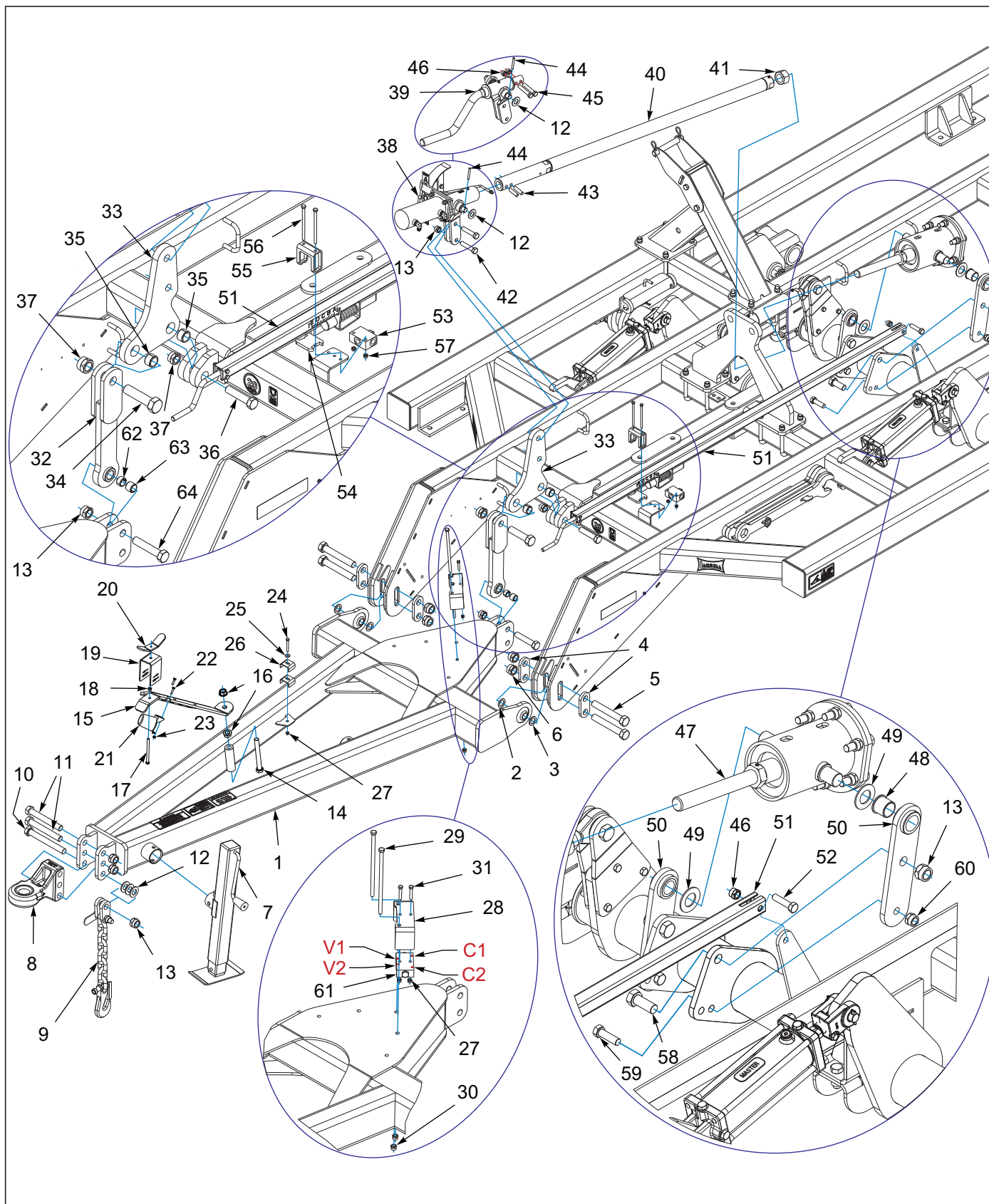


Figure 2-2: Hitch/Leveler Assembly (After 01-01-2021)

Hitch/Leveler Assembly (After 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140575	HITCH WLDMT	1
2	141255	BUSHING,MACHINE 1-1/8X14GA	AR
3	141256	BUSHING,MACHINE 1-1/8X10GA	AR
4	141252	PLATE, HITCH MOUNT	4
5	141253	SCREW HEX CAP 1-1/8-7 X 7-1/2	4
6	141254	NUT,HX SELF-LOCKING 1-1/8-7	4
7	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-20)	1
8	189451	HITCH, BALL CAT IV 3-HOLE (SEE PAGE 2-19)	1
9	141434	SAFETY CHAIN 21,000LB (6231-21'-29')	1
9	156950	SAFETY CHAIN, 41,000 LB (6231-30'-36')	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	5
13	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6
14	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	1
15	200829	BRACKET, HOSE HOLDER	1
16	103841	NUT,FLG,LNK,SERRATED 3/4-10UNC	2
17	141807	SCREW 3/8-16UNCX3-1/2 ALLTHRD	1
18	1-512-010007-07	NUT, HEX 3/8-16 GR2 ZP	1
19	141247	CLAMP, HOSE HOLDER	1
20	141249	WING NUT, HOSE HOLDER	1
21	2-368-010287	HARNESS, STOR-A-WAY	1
22	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
23	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
24	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	1
25	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
26	2-181-010001	HOSE CLAMP	3
27	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
28	174695	CLAMP, HOSE HOLDER	1
29	131081	SCREW,HEX CAP 1/2-13X11	2
30	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
31	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	2
32	214796	LINK, LEVELER WLDMT	1
33	240610	LINK, LEVELER L	1
34	172822	SCREW HX CAP 1-1/4-7X5 GR8	1
35	2-150-010174	BUSHING,1-5/8X1-1/4X1	2
36	172823	SCREW HX CAP 1-1/4-7X6 GR8	1
37	101385	NUT,HEX SLFLKG,1-1/4-7 GRB	1
38	247257	LEVELER ASSY, HYDRAULIC (SEE PAGE 2-17)	1
39	247256	LEVELER ASSY, MANUAL (SEE PAGE 2-13)	1
40	183914	TUBE, LEVELER 71" WLDMT	1
41	102351	NUT,HEX 1-1/2-6UNC GR2 ZP	1
42	141777	SCREW HX CP 1-8UNCX4-1/2 GR5	2
43	140627	PIN, LEVELER	2
44	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	2
45	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	2
46	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
47	183915	TUBE ASSY, LEVELER SPRING (SEE PAGE 2-9)	1
48	140599	BEARING, FLANGE 1-1/2"	2

Hitch/Leveler Assembly (After 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
49	141266	WASHER, THRUST 1-1/2	2
50	191470	MOUNT, LEVELER SPRING WLDMT (INCLUDES ITEM 48)	2
51	192814	STOP ASSY, DEPTH 84-1/2" (SEE PAGE 2-10)	1
52	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	1
53	185660	VALVE, LIMIT	1
54	165257	PAD, SLIDE	1
55	165265	GUIDE, DEPTH STOP	1
56	1-654-010049-19	SCREW,HEX CP,5/16-18UNCX5 GR5	2
57	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
58	151528	SCREW, HX CP 1-8UNCX2-1/2 GR5	1
59	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	1
60	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	1
61	124696	VALVE,CHK DBL PILOT O-RING	1
62	3P079	SPRING BUSHING,1 X 1.25 X 0.75	1
63	2-150-010008	BUSHING 1-1/4ODX1IDX1 STEEL	1
64	1-654-010065-15	SCREW HX CP 1-8UNCX5 GR5	1

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Leveler Spring Tube Assembly

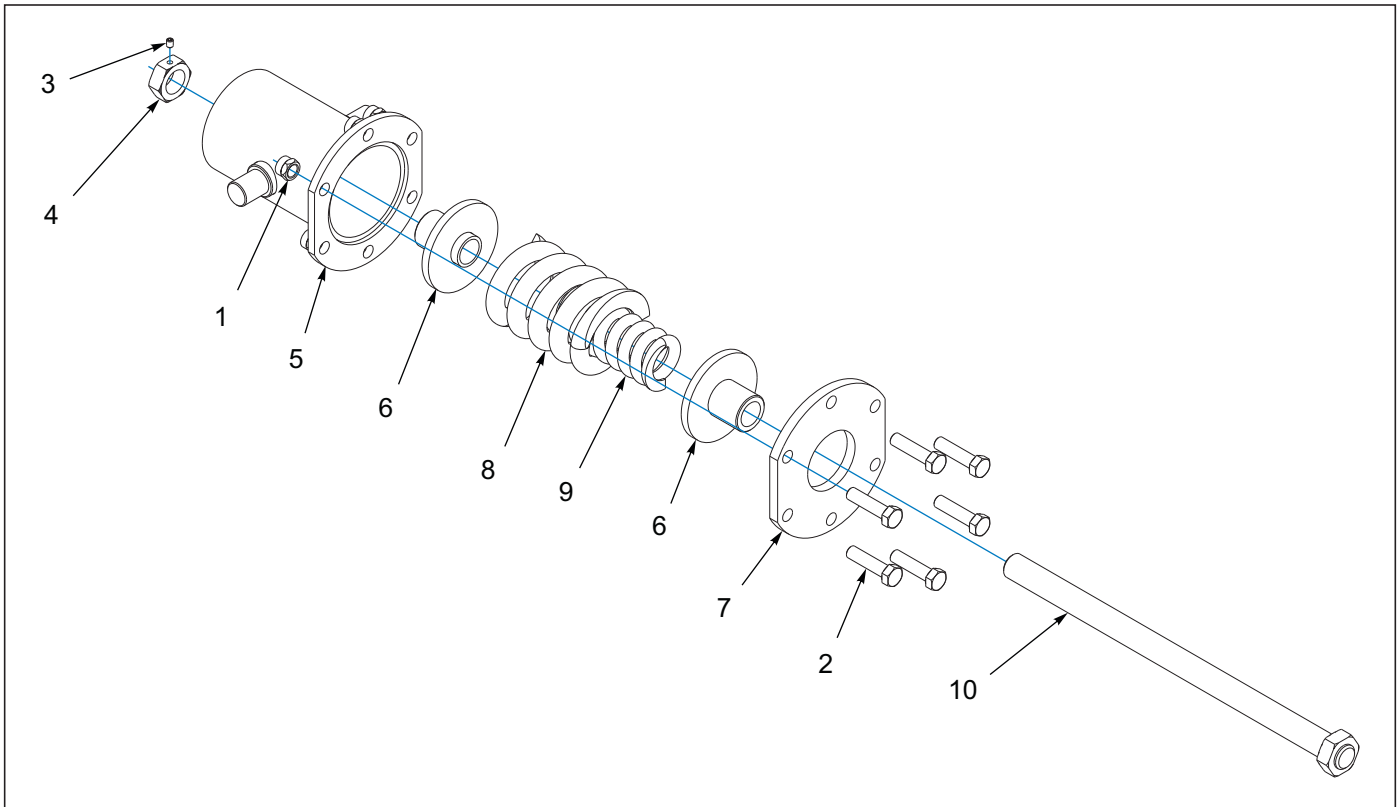


Figure 2-3: Leveler Spring Tube Assembly

Leveler Spring Tube Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	183915	LEVELER SPRING TUBE ASSEMBLY	
1	1-512-010005-15	NUT, HEX SLFLKG, 3/4-10 UNC GRB	6
2	1-654-010061-09	SCREW, HEX 3/4-10UNC X 3, GR5	6
3	122709	SCREW, SET HXSKTCPPT 3/8-16 X 1/2	1
4	140610	NUT, HEX JAM W/O SET SCREW	1
5	183902	TUBE, LEVELER SPRING	1
6	183906	SPRING, END LEVELER	2
7	183909	CLAMP PLATE, LEVELER SPRING TUBE	1
8	192874	SPRING, COMPRESSION OUTER	1
9	192875	SPRING COMPRESSION INNER	1
10	192876	SCREW, LEVELER	1

Depth Stop Tube Assembly

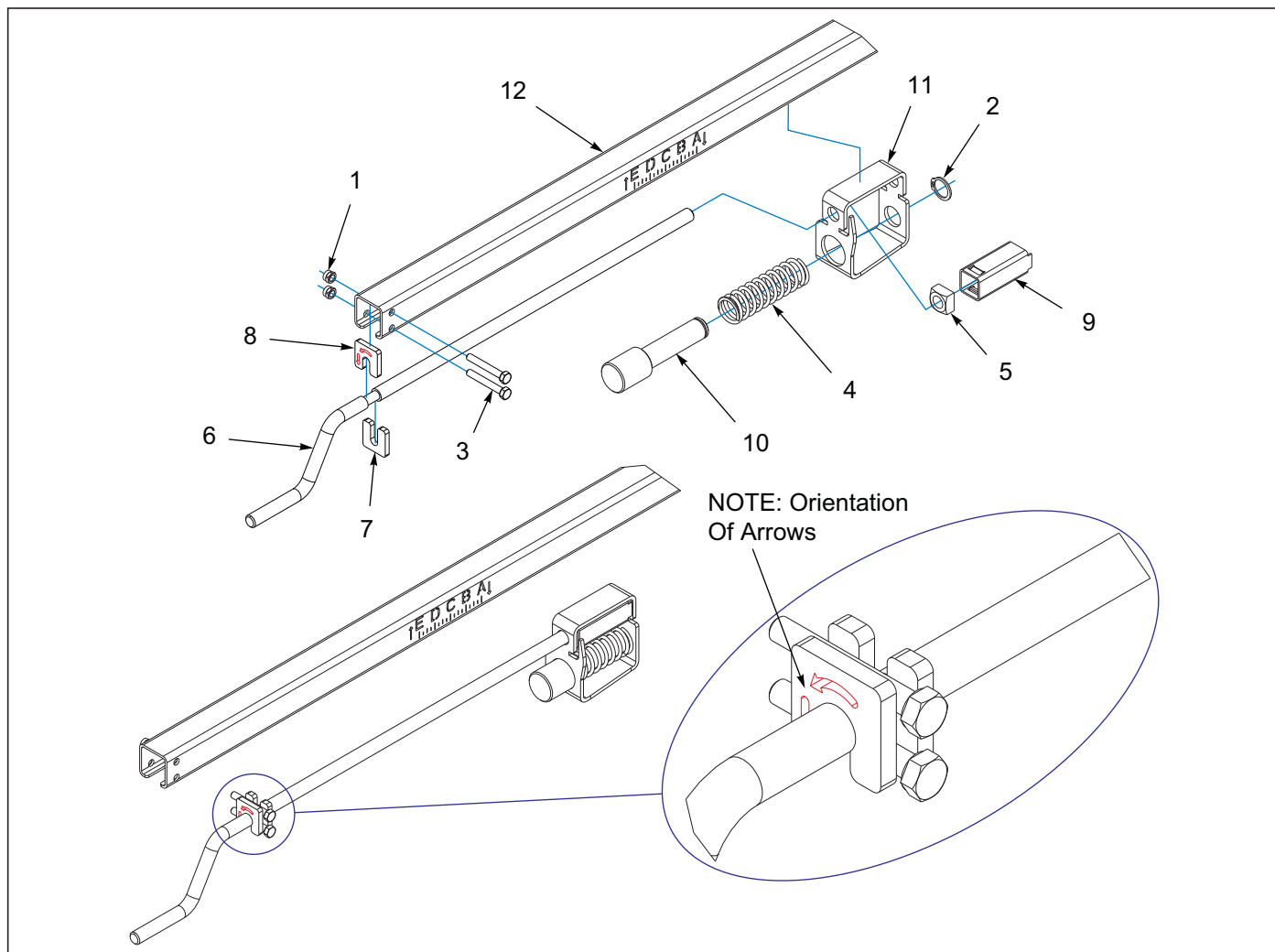


Figure 2-4: Depth Stop Tube Assembly

Depth Stop Tube Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	192814	STOP ASSY, DEPTH 84-1/2"	
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
2	1-630-010021-03	RING, RETAINING 1.0 HD	1
3	108628	SCREW HX CP 5/16-18UNCX2-1/4	2
4	122917	SPRING COMPRESSION, 4-1/2 MONO	1
5	144048	NUT, SQ 5/8-11 GR5	1
6	165258	HANDLE, DEPTH STOP	1
7	165259	STOP, HANDLE LONG	1
8	165260	STOP, HANDLE SHORT	1
9	166717	SQ TUBE, FLOATING	1
10	174708	PIN, DEPTH STOP	1
11	174709	SQ TUBE, DEPTH STOP	1
12	192815	SQ TUBE, DEPTH STOP 84-1/2"	1

Leveler Assembly Manual (Before 01-01-2024)

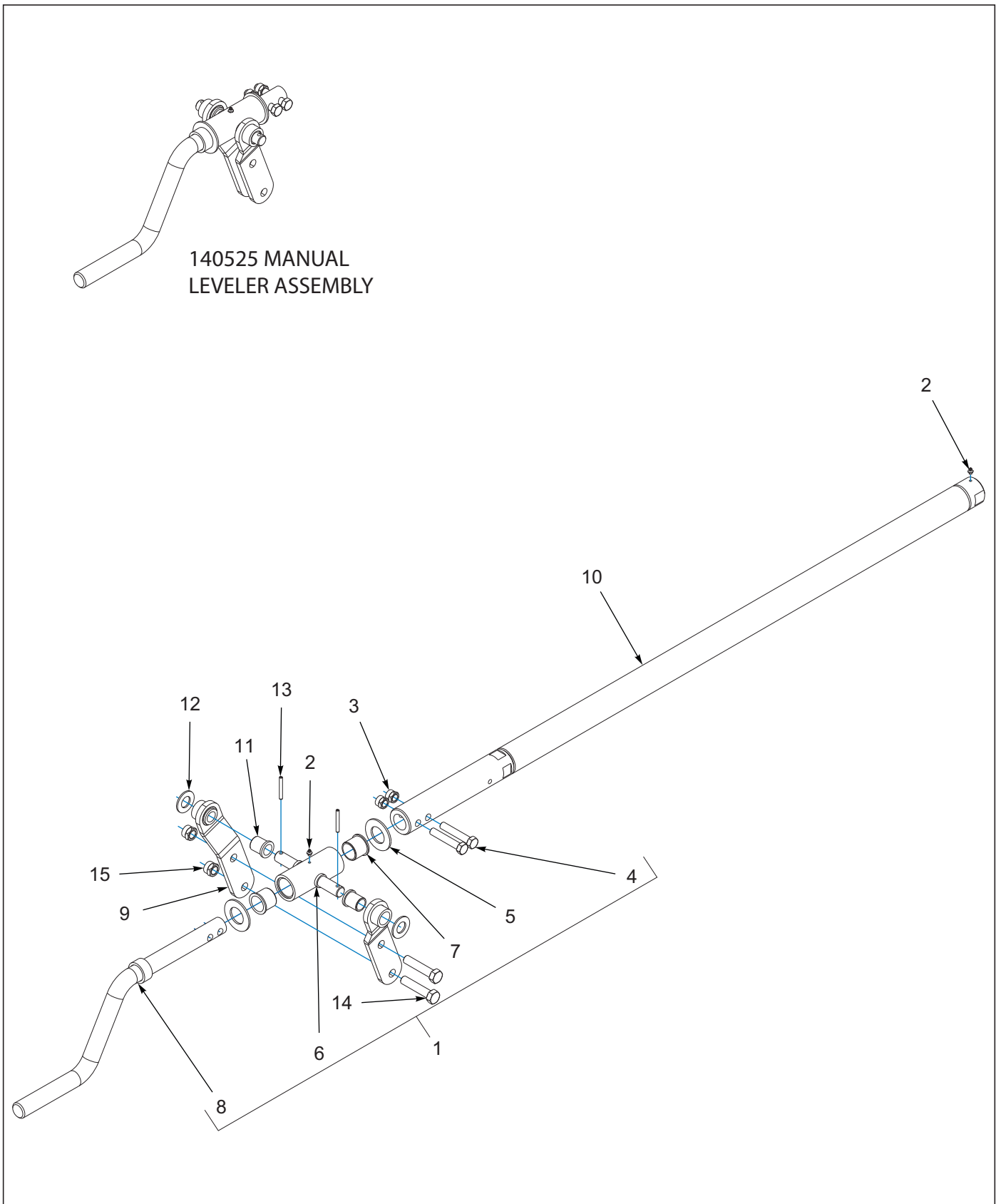


Figure 2-5: Leveler Assembly Manual (Before 01-01-2024)

Leveler Assembly Manual (Before 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140525	LEVELER ASSY, MANUAL (INCLUDES ITEMS 2-9)	1
2	1-298-010001-1	ZERK FITTING 1/4 SAE	2
3	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
4	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	2
5	1-861-010032-32	WASHER FLAT ZP/CD 1-1/2	2
6	140598	CROSS, LEVELER WLDMT	1
7	140599	BEARING, FLANGE 1-1/2"	2
8	140630	HANDLE, LEVELER WLDMT	1
9	142645	BRACKET WLDMT LEVELER CROSS MA (INCLUDE ITEM 11)	2
10	183914	TUBE, LEVELER 71" WLDMT	1
11	2-073-010012	BEARING FLANGE	2
12	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
13	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	2
14	141776	SCREWHXCP 3/4-10UNCX3-1/2GR5B	2
15	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2

Leveler Assembly Manual (After 01-01-2024)

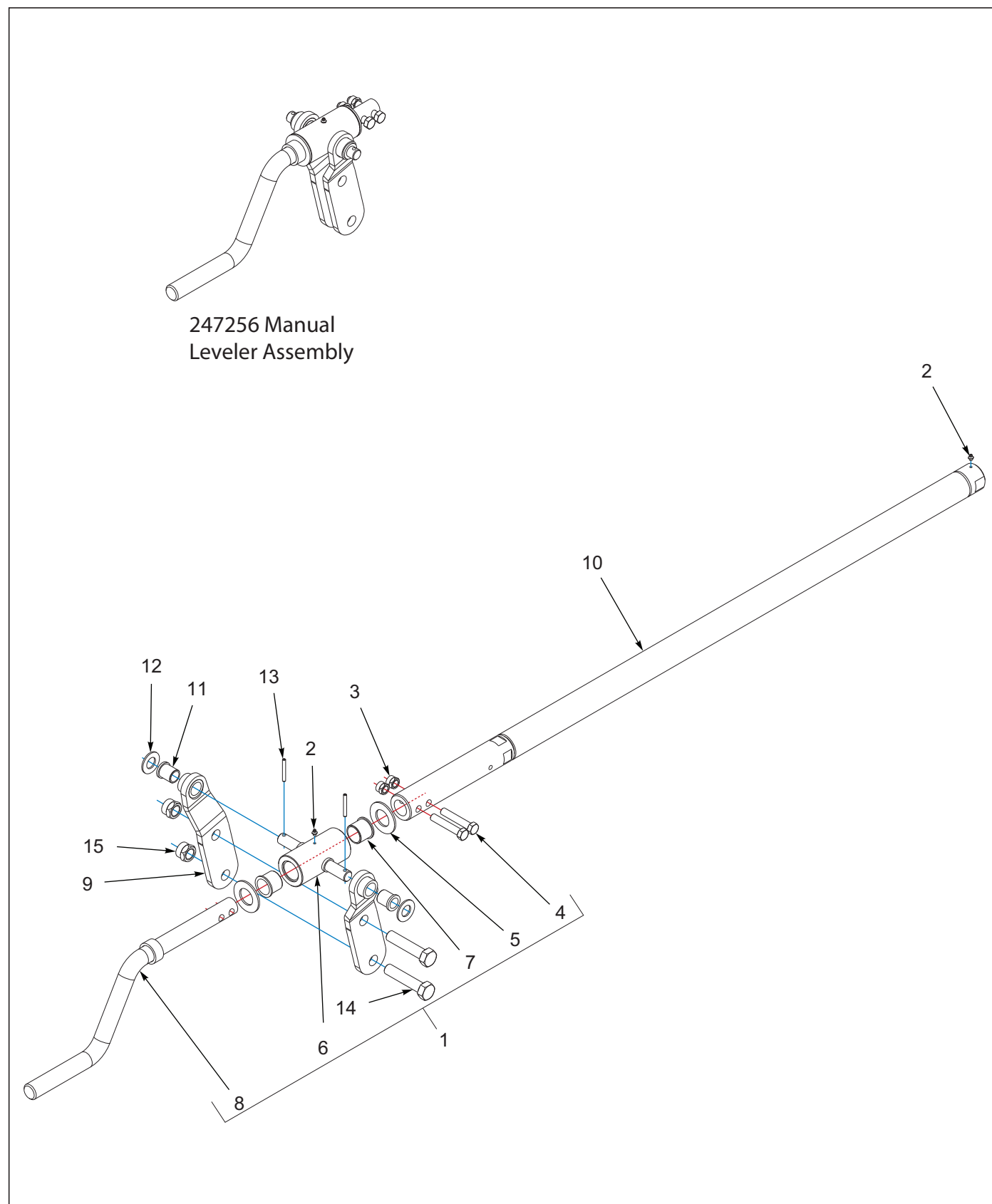


Figure 2-6: Leveler Assembly Manual (After 01-01-2024)

Leveler Assembly Manual (After 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	247256	LEVELER ASSY, MANUAL (INCLUDES ITEMS 2-9, 11)	1
2	1-298-010001-1	ZERK FITTING 1/4 SAE	2
3	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
4	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	2
5	1-861-010032-32	WASHER FLAT ZP/CD 1-1/2	2
6	247258	CROSS, LEVELER WLDMT	1
7	140599	BEARING, FLANGE 1-1/2"	2
8	140630	HANDLE, LEVELER WLDMT	1
9	240608	BRACKET WLDMT, LEVELER CROSS (INCLUDE ITEM 11)	2
10	183914	TUBE, LEVELER 71" WLDMT	1
11	2-073-010012	BEARING FLANGE	2
12	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
13	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	2
14	141777	SCREW HX CP 1-8UNCX4-1/2 GR5	2
15	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2

Leveler Assembly Hydraulic (Before 01-01-2024)

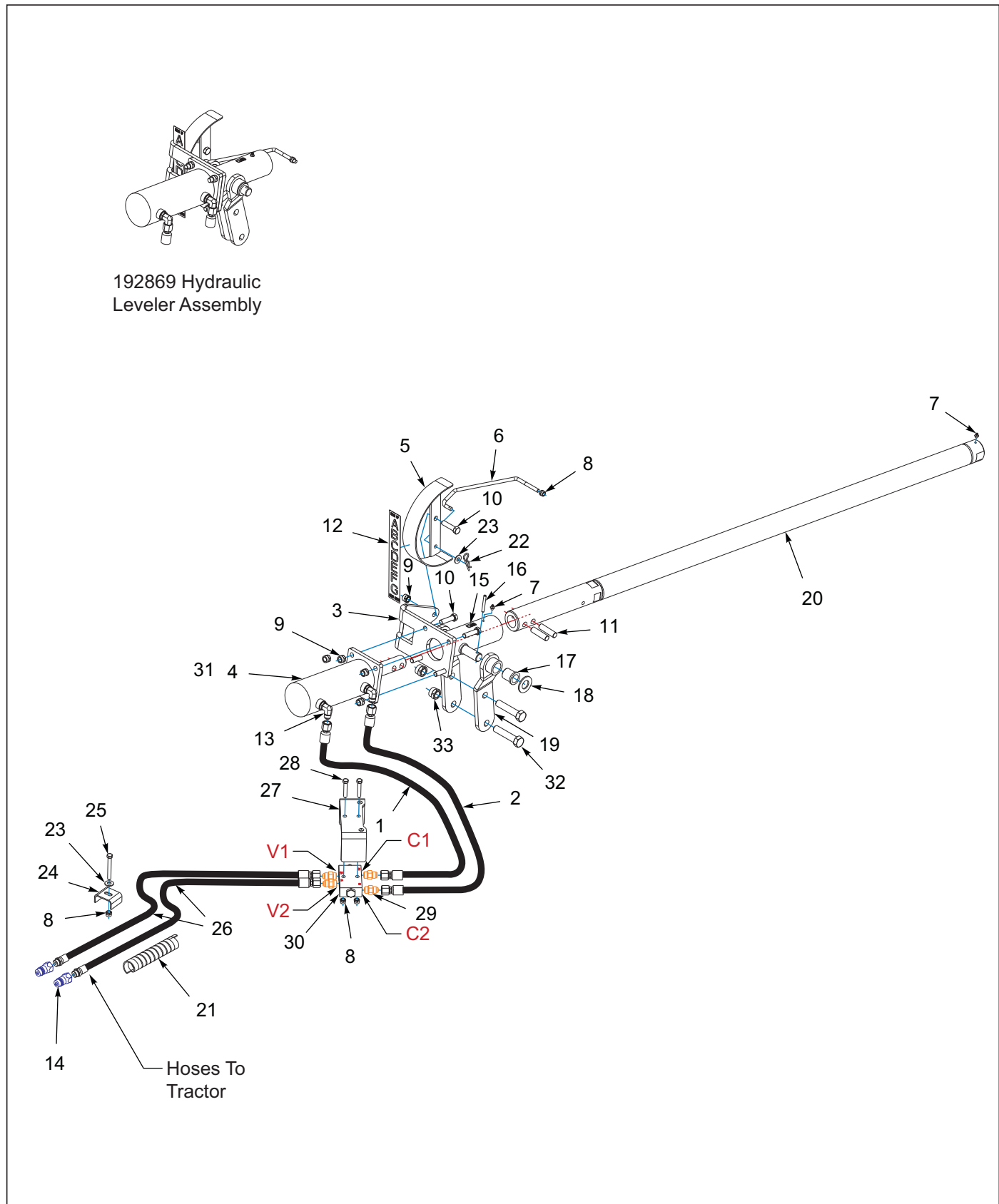
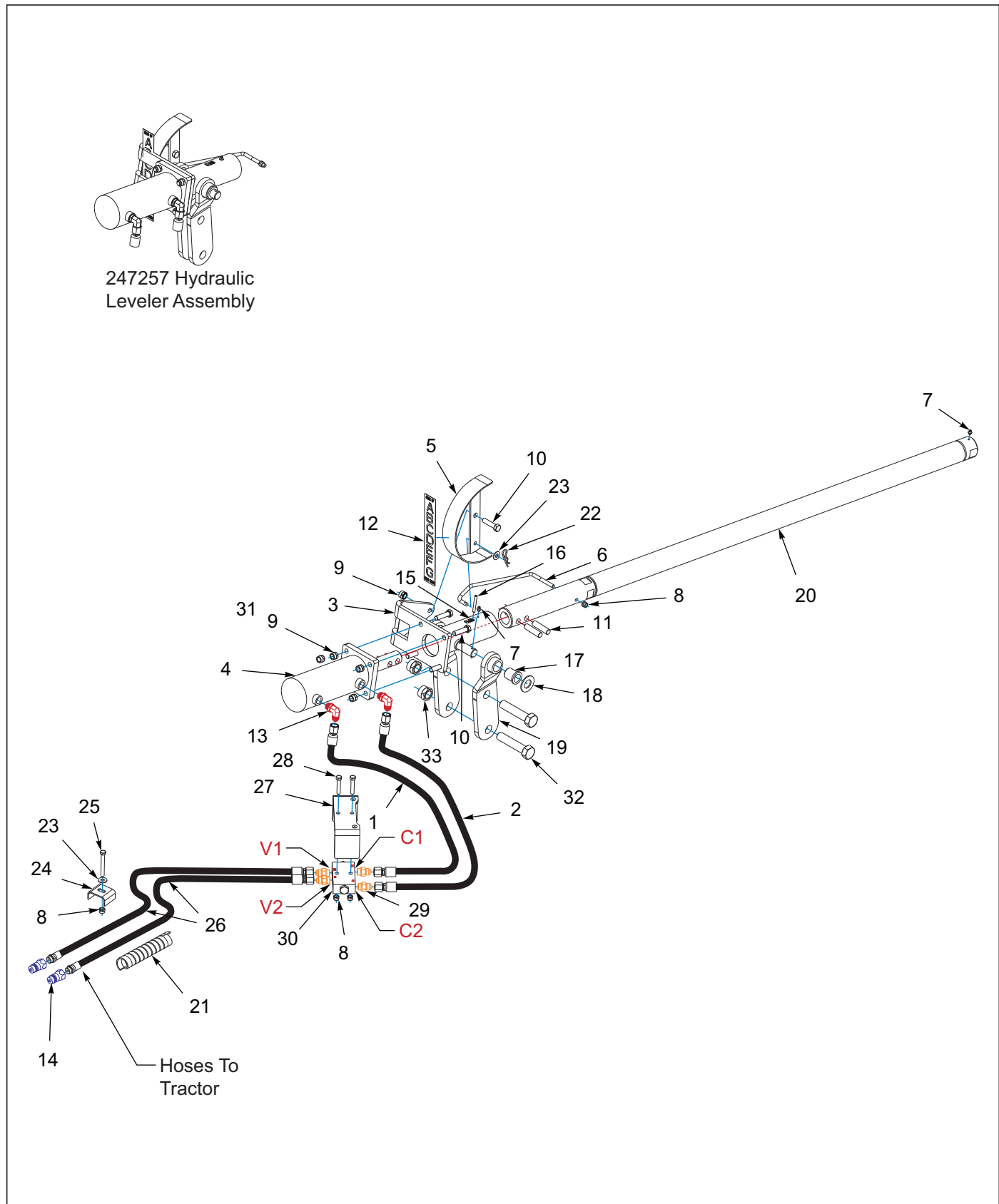


Figure 2-7: Leveler Assembly Hydraulic (Before 01-01-2024)

Leveler Assembly Hydraulic (Before 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	192869	LEVELER ASSEMBLY, HYDRAULIC (INCLUDE ITEM 1-12, 14-15, 17, 19, 21-26, 28-30)	
1	153843	HOSE ASSY 3/8X67 #8 JIC SWIV	1
2	181801	HOSE ASSY, 3/8x58 #8 JIC SWIV	1
3	140625	CROSS, LEVELER	1
4	144116	CYL ASSY, 3-1/2 X 6 W/FITTINGS (INCLUDE ITEM 13, 31)	1
5	141241	GAUGE, LEVEL INDICATOR	1
6	141242	ROD, LEVEL INDICATOR	1
7	1-298-010001-1	ZERK FITTING 1/4	1
8	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	3
9	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	5
10	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	5
11	140627	PIN, LEVELER	2
12	141263	DECAL, LEVEL INDICATOR	1
13	141827	ELBOW 90 W/ 1/32 RESTRICTOR	2
14	141828	COUPLER, MALE 3/4-16	2
15	2-573-010330-03	DECAL, LUBRICATION 50 HOURS	1
16	1-647-010004240	PIN SPRING SLOTTED 5/16 X 2-1/2	REF
17	2-073-010012	BEARING FLANGE	2
18	1-861-010032-24	WASHER, FLAT 1N	REF
19	142646	LEVELER CROSS BRACKET WLDMT (INCLUDE ITEM 17)	2
20	183914	LEVELER TUBE 71"	REF
21	155530	HOSE WRAP, BLACK	AR
22	1-557-010403	HAIRPIN, 1/8	1
23	1-861-010032-11	WASHER, FLAT 3/8W	2
24	2-181-010001	HOSE CLAMP	1
25	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3	1
26	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
27	174695	CLAMP, HOSE HOLDER	REF
28	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	2
29	202702-8-8S	ADAPTER	4
30	124696	VALVE, DOUBLE PILOT CHECK	1
31	140631	CYLINDER, 3-1/2 X 6 (SEE PAGE 5-8)	1
32	141776	SCREWHXCP 3/4-10UNCX3-1/2GR5B	2
33	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2

Leveler Assembly Hydraulic (After 01-01-2024)



Leveler Assembly Hydraulic (After 01-01-2024)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247257	LEVELER ASSY, HYDRAULIC (INCLUDE ITEM 1-12, 14-15, 17, 19, 21-26, 28-30)	
1	153843	HOSE ASSY 3/8X67 #8 JIC SWIV	1
2	181801	HOSE ASSY, 3/8x58 #8 JIC SWIV	1
3	140625	CROSS, LEVELER	1
4	144116	CYL ASSY, 3-1/2 X 6 W/FITTINGS (INCLUDE ITEM 13, 31)	1
5	141241	GAUGE, LEVEL INDICATOR	1
6	141242	ROD, LEVEL INDICATOR	1
7	1-298-010001-1	ZERK FITTING 1/4	1
8	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	3
9	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	5
10	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	5
11	140627	PIN, LEVELER	2
12	141263	DECAL, LEVEL INDICATOR	1
13	141827	ELBOW 90 W/ 1/32 RESTRICTOR	2
14	141828	COUPLER, MALE 3/4-16	2
15	2-573-010330-03	DECAL, LUBRICATION 50 HOURS	1
16	1-647-010004240	PIN SPRING SLOTTED 5/16 X 2-1/2	REF
17	2-073-010012	BEARING FLANGE	2
18	1-861-010032-24	WASHER, FLAT 1N	REF
19	240608	BRACKET WLDMT, LEVELER CROSS (INCLUDE ITEM 17)	2
20	183914	LEVELER TUBE 71"	REF
21	155530	HOSE WRAP, BLACK	AR
22	1-557-010403	HAIRPIN, 1/8	1
23	1-861-010032-11	WASHER, FLAT 3/8W	2
24	2-181-010001	HOSE CLAMP	1
25	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3	1
26	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
27	174695	CLAMP, HOSE HOLDER	REF
28	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	2
29	202702-8-8S	ADAPTER	4
30	124696	VALVE, DOUBLE PILOT CHECK	1
31	140631	CYLINDER, 3-1/2 X 6 (SEE PAGE 5-8)	1
32	141777	SCREW HX CP 1-8UNCX4-1/2 GR5	2
33	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2

Hitch Assemblies

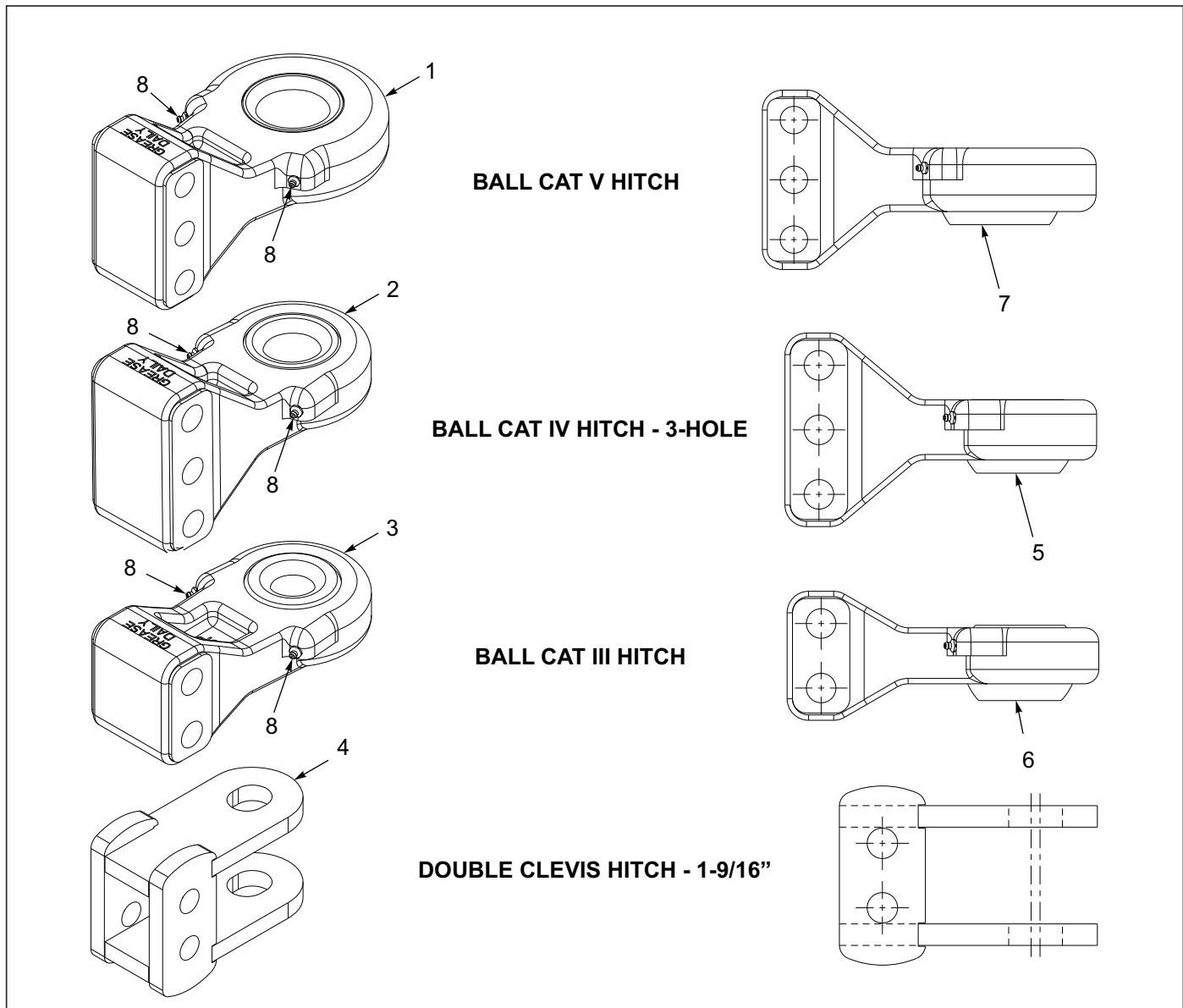


Figure 2-9: Hitch Assemblies

Hitch Assemblies

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	177032	HITCH, BALL V	1
2	189451	HITCH, BALL CAT IV, 3-HOLE	1
3	177030	HITCH, BALL CAT III	1
4	161550	HITCH CLEVIS, DOUBLE 1-9/16"	1
5	189454	BUSHING, SPHERICAL, 2" ID (STANDARD CAT IV)	1
5	189453	BUSHING, SPHERICAL, 1-1/2" ID	1
6	189453	BUSHING, SPHERICAL 1-1/2 ID	1
7	189468	BUSHING, SPHERICAL, 2-3/4" ID (STANDARD CAT V)	1
7	189467	BUSHING, SPHERICAL 2 ID	1
8	1-298-010001-1	ZERK FITTING 1/4 SAE	1

Jack Assembly

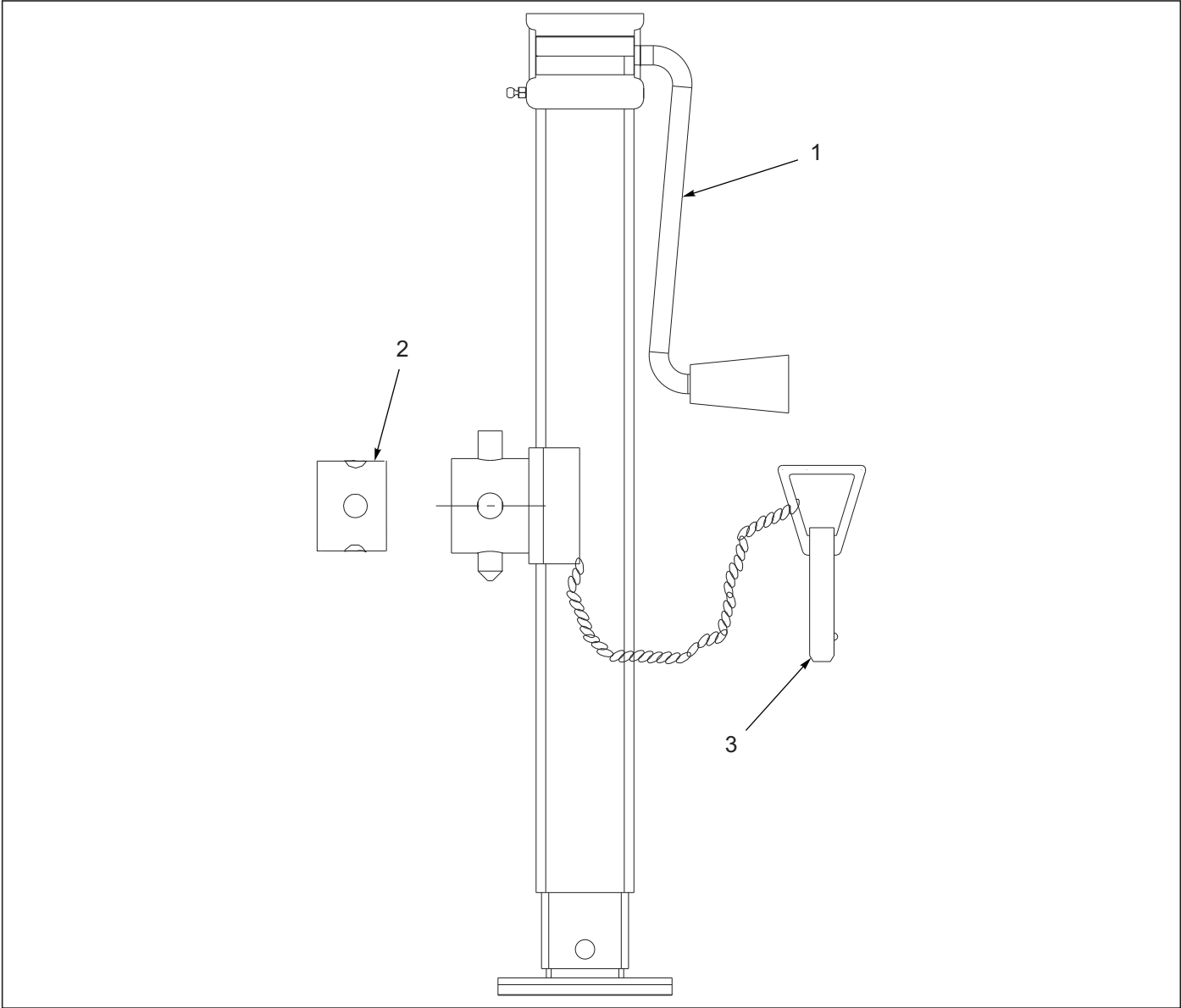


Figure 2-10: Jack Assembly

Jack Assembly

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

Disc Gang Assemblies

Disc Gang Assembly 24" 7SP Rollable 4 GA

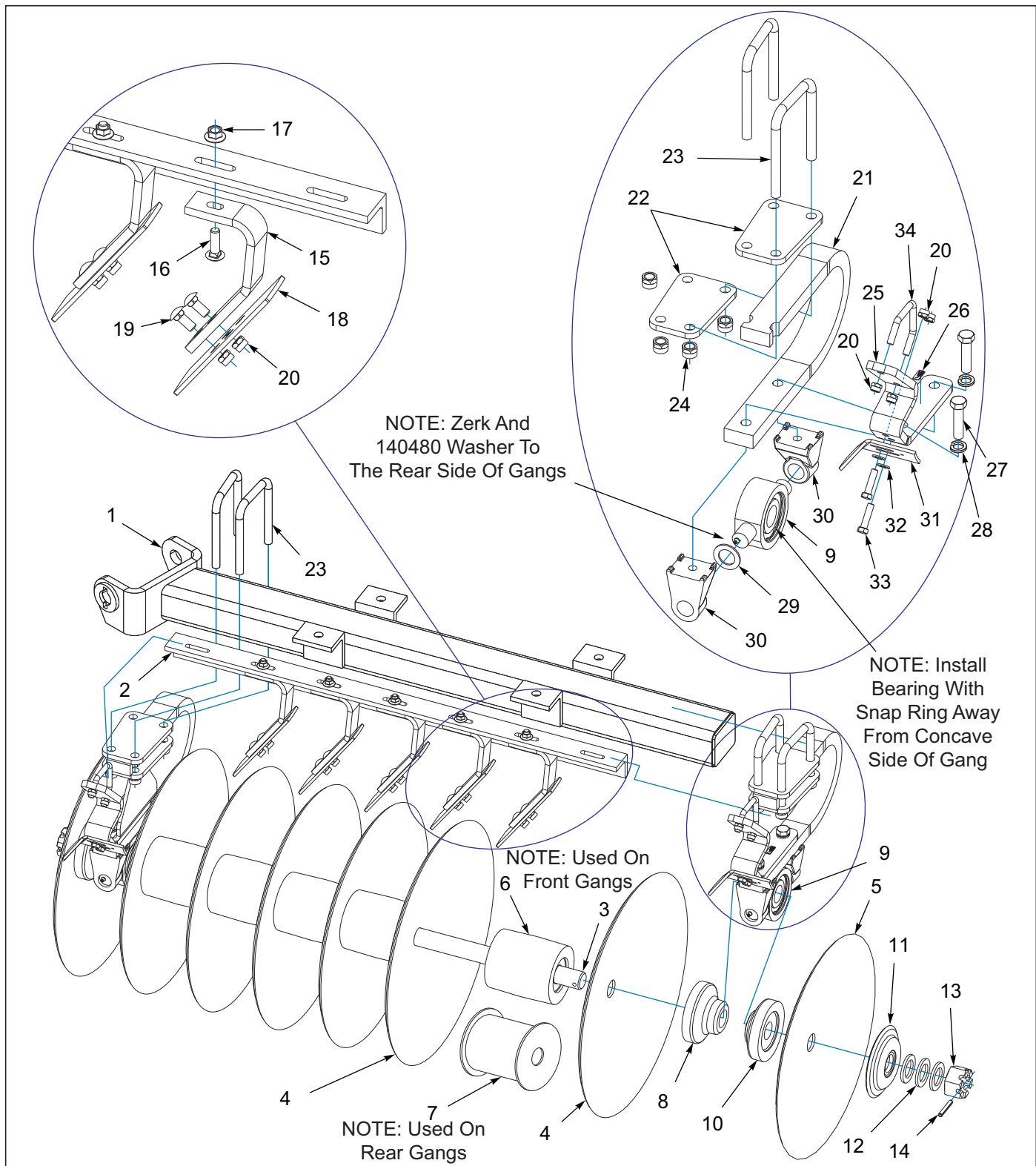


Figure 3-1: Disc Gang Assembly 24" 7SP Rollable 4 GA

Disc Gang Assembly 24" 7SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	----	GANG BAR (SEE PAGES 3-3 THRU 3-7)	REF
2	----	SCRAPER BAR (SEE PAGES 3-3 THRU 3-7)	REF
3	----	GANG SHAFT (SEE PAGES 3-3 THRU 3-7)	REF
4	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	
5	155618	DISC BLADE, 22"X1/4" 1-3/4 ID	
6	154668	SPOOL, CAST 7 SP (FRONT GANG)	
7	153652	SPOOL WLDMT, 7 SP (REAR GANG)	
8	153651	HALF SPOOL, CONVEX 7 SP	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
10	140485	HALF SPOOL, CONCAVE	
11	140469	END COLLAR	
12	141154	WASHER, GANG SHAFT	
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
15	172724	ARM, SCRAPER	
16	160161	SHAKER BOLT 1/2-13X1-3/4 GR8ZP	
17	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	
18	191444	SCRAPER, 4-1/2" IN LC	
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
20	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
21	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
21	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
22	140483	PLATE, DISC SHANK MOUNT	
23	140484	U-BOLT, 3/4 X 5	
24	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
25	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
25	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
26	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
27	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	
28	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
29	140480	WASHER, TRUNNION	
30	140479	MOUNT, TRUNNION	
31	180140	SCRAPER, DUAL RT, 7-24" LC (USED RIGHT FRONT AND LEFT REAR GANGS)	
31	180141	SCRAPER, DUAL LT, 7-24" LC (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
32	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
33	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
34	140487	UBOLT, SCRAPER BAR MOUNT	

Disc Gang Assembly 24" 7SP Rollable 4 GA

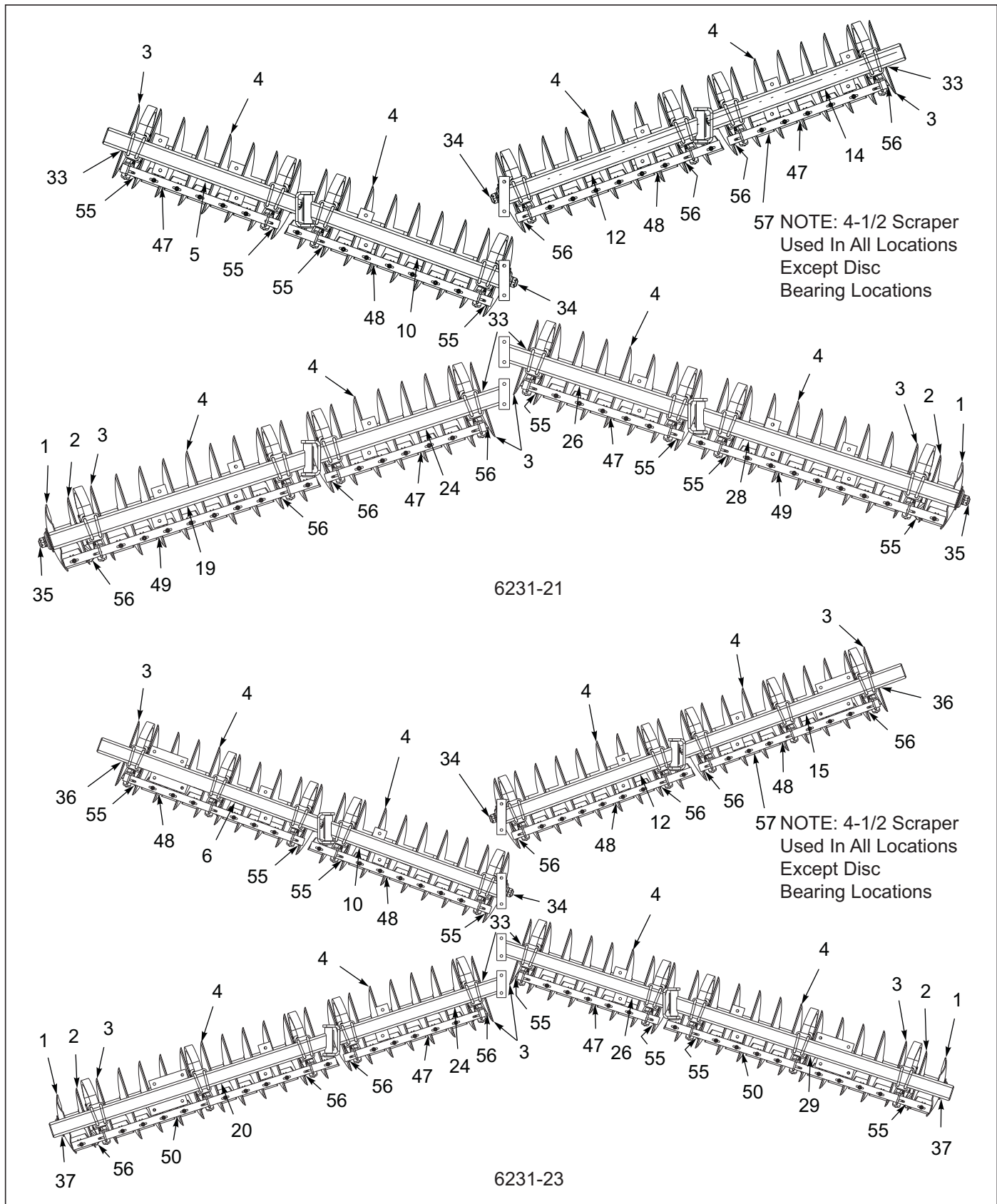


Figure 3-2: Disc Gang Assembly 6231 24" 7SP Rollable 4 GA (1 of 4)

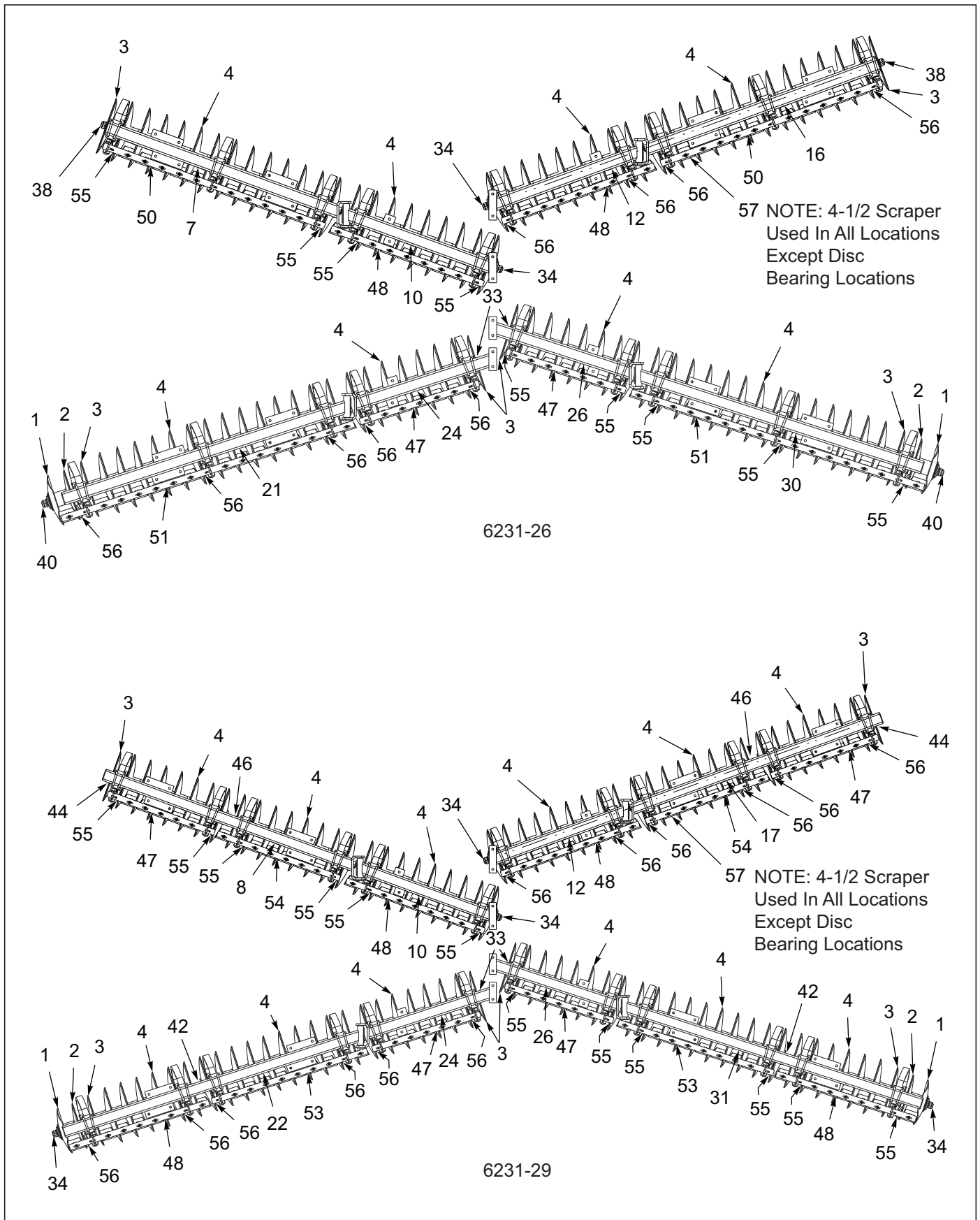


Figure 3-3: Disc Gang Assembly 6231 24" 7SP Rollable 4 GA (2 of 4)

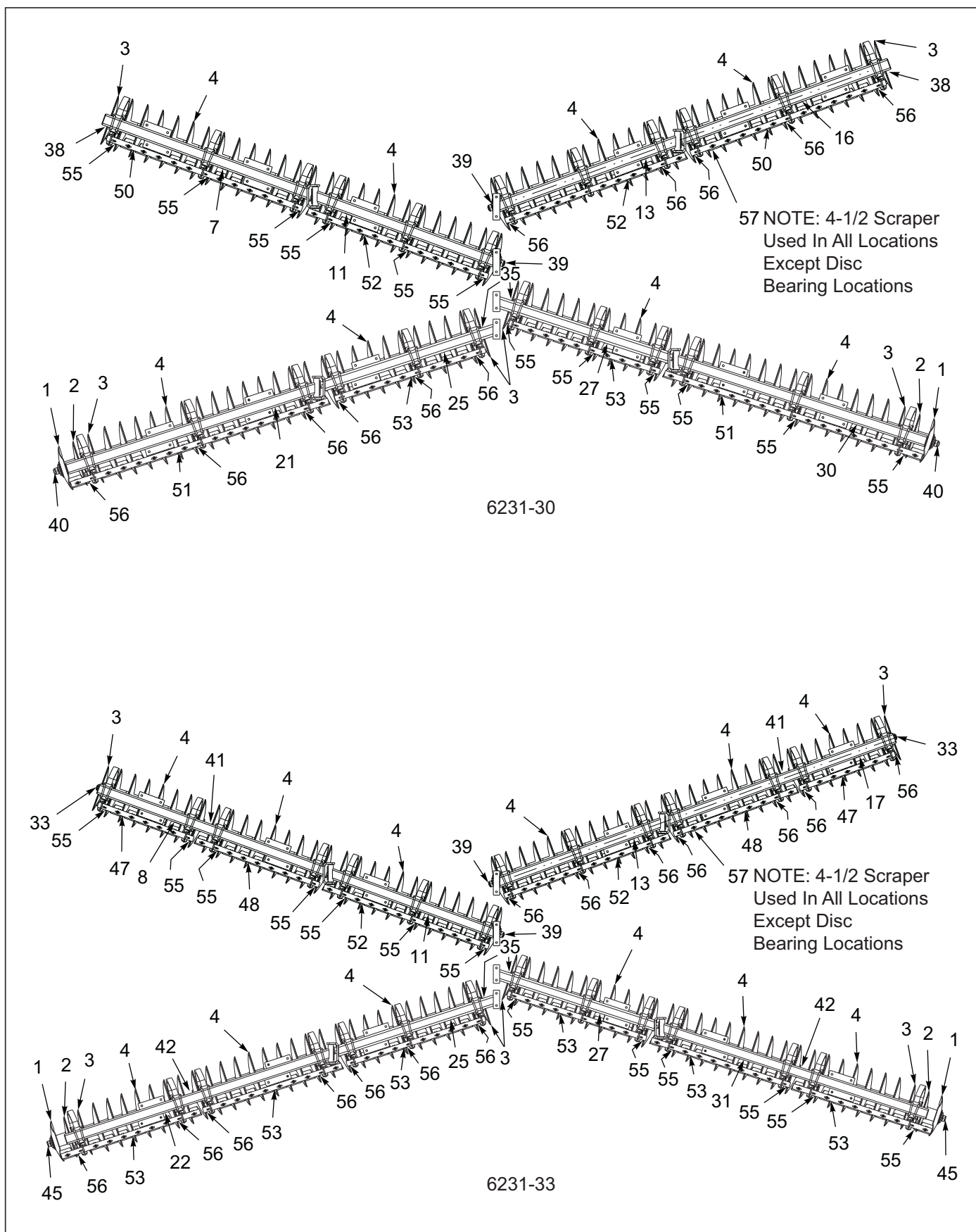


Figure 3-4: Disc Gang Assembly 6231 24" 7SP Rollable 4 GA (3 of 4)

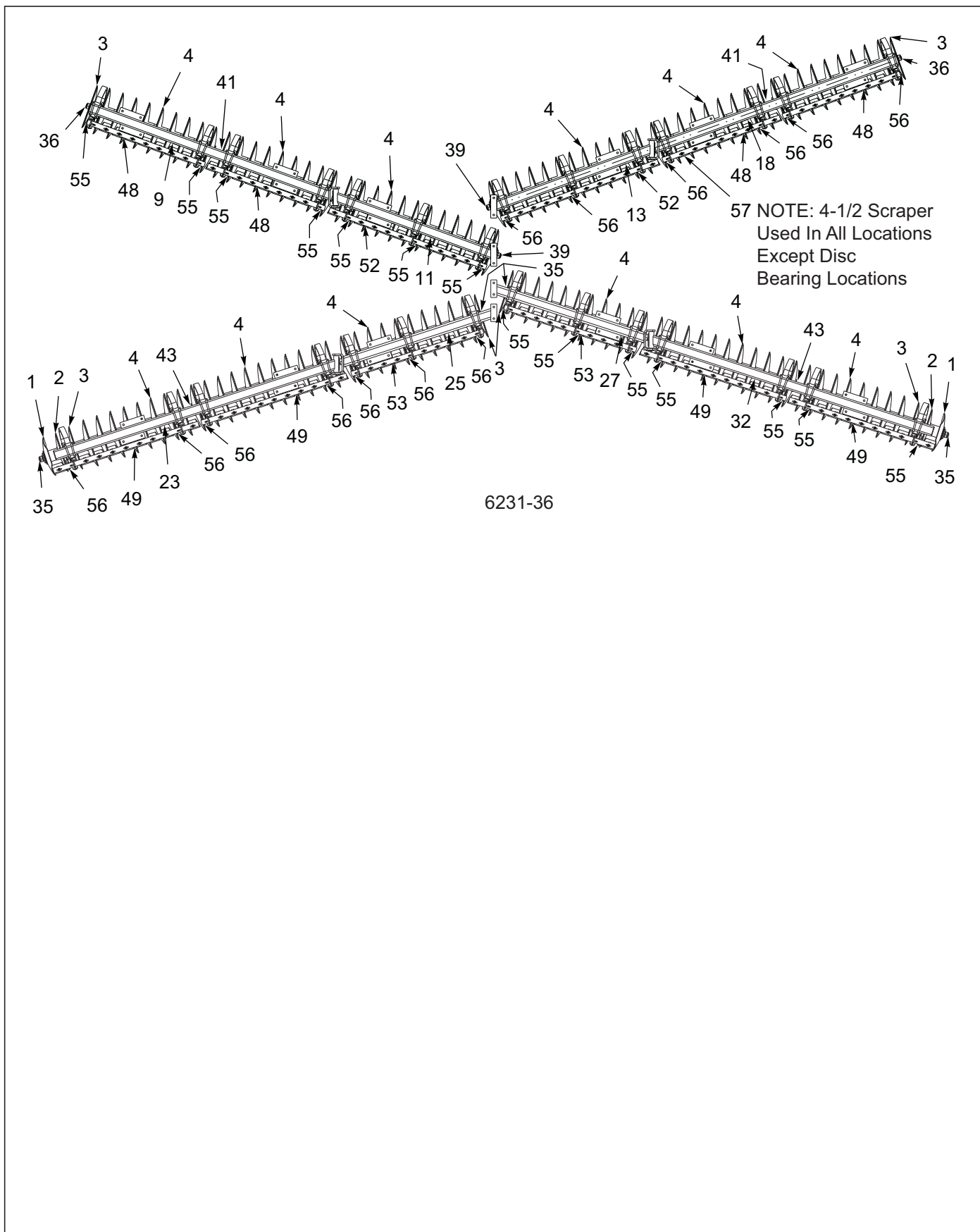


Figure 3-5: Disc Gang Assembly 6231 24" 7SP Rollable 4 GA (4 of 4)

Disc Gang Assembly 24" 7SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	191431	GANG ASSY, 24" 7SP ROLL 4GA 21	*						
--	191432	GANG ASSY, 24" 7SP ROLL 4GA 23		*					
--	191433	GANG ASSY, 24" 7SP ROLL 4GA 26			*				
--	191434	GANG ASSY, 24" 7SP ROLL 4GA 29				*			
--	191435	GANG ASSY, 24" 7SP ROLL 4GA 30					*		
--	191436	GANG ASSY, 24" 7SP ROLL 4GA 33						*	
--	191437	GANG ASSY, 24" 7SP ROLL 4GA 36							*
1	140468	DISC BLADE,20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	155619	DISC BLADE,20"X1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	155618	DISC BLADE,22"X1/4" 1-3/4 ID	6	6	6	6	6	6	6
4	172076	DISC BLADE, 24"X1/4", 1-3/4"ID	62	70	86	94	98	110	118
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	153713	SHAFT, GANG 55-1/2 L	4	2	2	2	--	2	--
34	154663	SHAFT, GANG 62-1/2 L	2	2	2	4	--	--	--
35	141165	SHAFT, GANG 76-1/2 L	2	--	--	--	2	2	4
36	180147	SHAFT, GANG 69-1/2 L	--	2	--	--	--	--	2
37	149592	SHAFT, GANG 90-1/2 L	--	2	--	--	--	--	--
38	156082	SHAFT, GANG 98 L	--	--	2	--	2	--	--
39	156921	SHAFT, GANG 83-1/2 L	--	--	--	--	2	2	2
40	199399	SHAFT, GANG 119 L	--	--	2	--	2	--	--
41	180087	SHAFT, GANG 61-1/2 L	--	--	--	--	--	2	2
42	142580	SHAFT,GANG 68-1/2	--	--	--	2	--	2	--

Disc Gang Assembly 24" 7SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	156922	SHAFT, GANG 76 L	--	--	--	--	--	--	2
44	154662	SHAFT, GANG 55 L	--	--	--	2	--	--	--
45	164562	SHAFT, GANG 69 L	--	--	--	--	--	2	--
46	171021	SHAFT, GANG 54-1/2 L	--	--	--	2	--	--	--
47	153698	SCRAPER BAR, 7 SP 7 HOLE	4	2	2	4	--	2	--
48	153700	SCRAPER BAR, 7 SP 9 HOLE	2	4	2	4	--	2	4
49	153702	SCRAPER BAR, 7 SP 11 HOLE	2	--	--	--	--	--	4
50	153704	SCRAPER BAR, 7 SP 13 HOLE	--	2	2	--	2	--	--
51	182328	SCRAPER BAR, 7 SP 17 HOLE	--	--	2	--	2	--	--
52	153703	SCRAPER BAR, 7 SP 12 HOLE	--	--	--	--	2	2	2
53	153701	SCRAPER BAR, 7 SP 10 HOLE	--	--	--	2	--	6	2
54	153699	SCRAPER BAR, 7 SP 8 HOLE	--	--	--	2	--	--	--
55	180141	SCRAPER, DUAL LT, 7-24" LC	8	10	10	12	12	14	14
56	180140	SCRAPER, DUAL RT, 7-24" LC	8	10	10	12	12	14	14
57	191444	SCRAPER, 4-1/2 IN LC	52	56	72	76	80	88	96

Disc Gang Assembly 24" 7SP 4 GA (Non-Rollable)

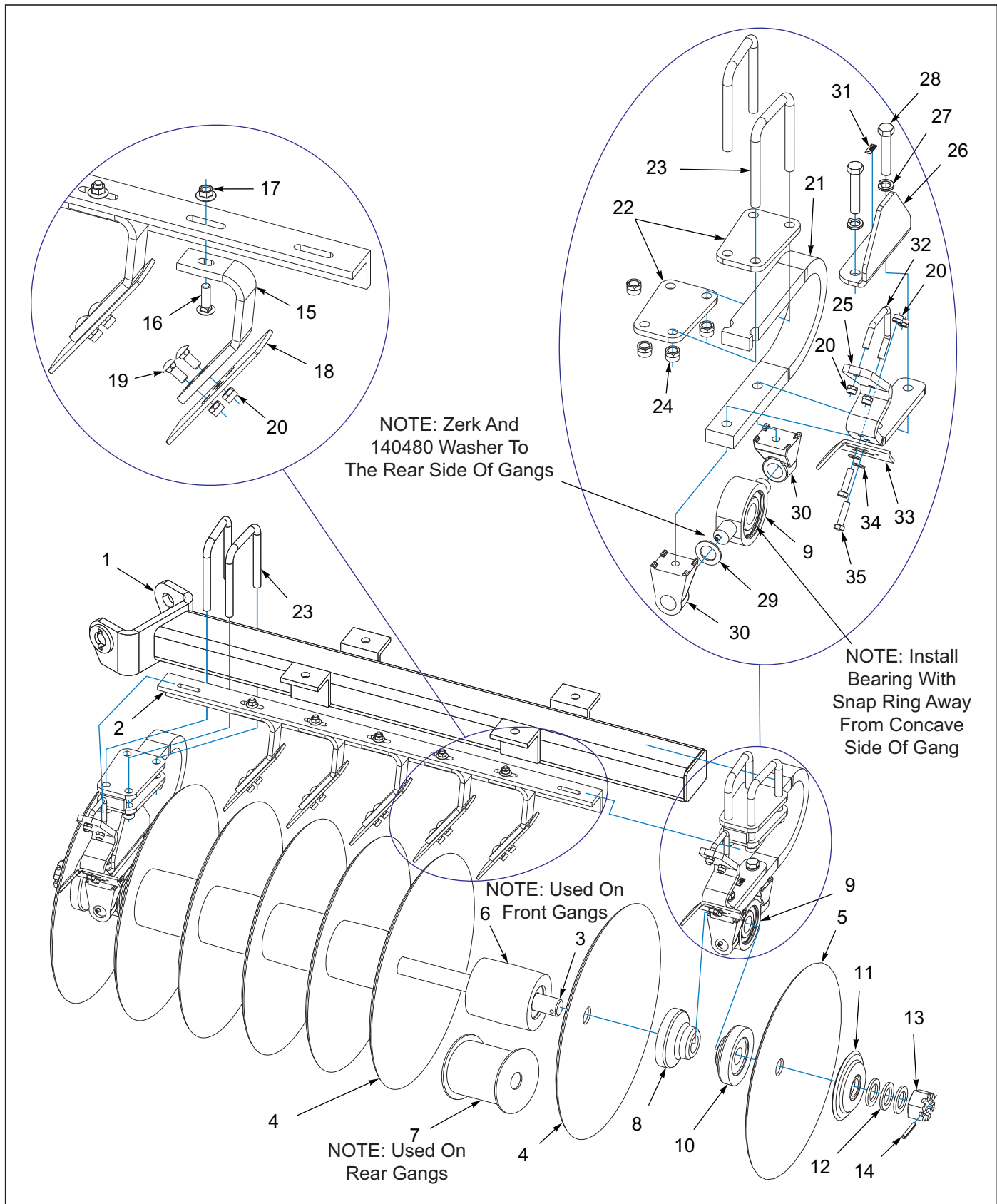


Figure 3-6: Disc Gang Assembly 24" 7SP 4 GA _Non-Rollable)

Disc Gang Assembly 24" 7SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-11 THRU 3-15)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-11 THRU 3-15)	REF
3	-----	GANG SHAFT (SEE PAGES 3-11 THRU 3-15)	REF
4	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	
5	155617	DISC BLADE, 22"X1/4" 1-3/4 ID	
6	154668	SPOOL, CAST 7 SP (FRONT GANG)	
7	153652	SPOOL WLDMT, 7 SP (REAR GANG)	
8	153651	HALF SPOOL, CONVEX 7 SP	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
10	140485	HALF SPOOL, CONCAVE	
11	140469	END COLLAR	
12	141154	WASHER, GANG SHAFT	
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
15	172724	ARM, SCRAPER	
16	160161	SHAKER BOLT 1/2-13X1-3/4 GR8ZP	
17	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	
18	191444	SCRAPER, 4-1/2" IN LC	
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
20	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
21	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
21	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
22	140483	PLATE, DISC SHANK MOUNT	
23	140484	U-BOLT, 3/4 X 5	
24	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
25	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
25	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
26	143988	STOP, DISC SHANK	
27	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
28	114029	SCREW HX CAP 3/4-10X4 GR8	
29	140480	WASHER, TRUNNION	
30	140479	MOUNT, TRUNNION	
31	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
32	140487	UBOLT, SCRAPER BAR MOUNT	
33	180140	SCRAPER, DUAL RT, 7-24" LC (USED RIGHT FRONT AND LEFT REAR GANGS)	
33	180141	SCRAPER, DUAL LT, 7-24" LC (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
35	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	

Disc Gang Assembly 24" 7SP 4 GA (Non-Rollable)

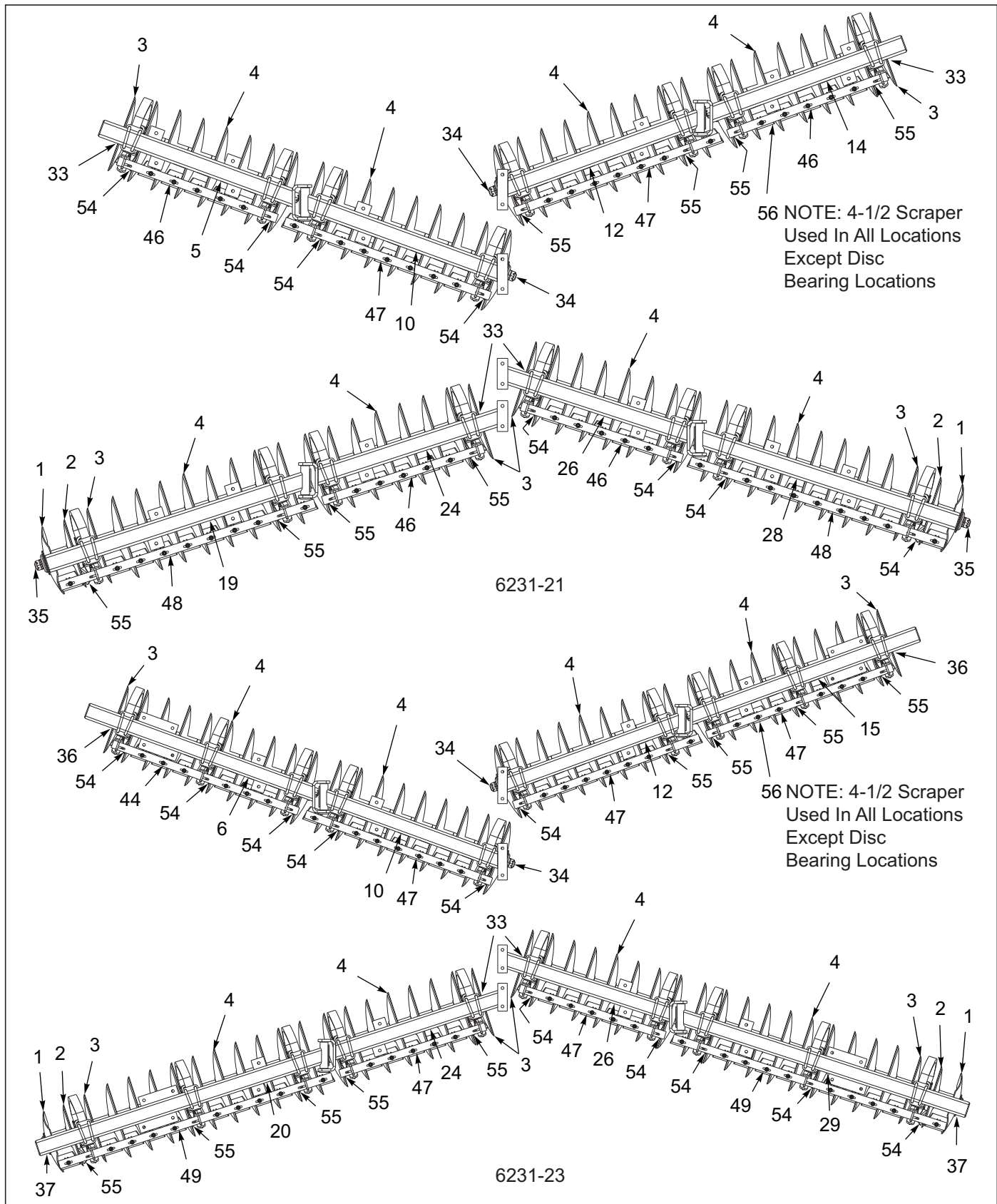


Figure 3-7: Disc Gang Assembly 6231 24" 7SP 4 GA (Non-Rollable) (1 of 4)

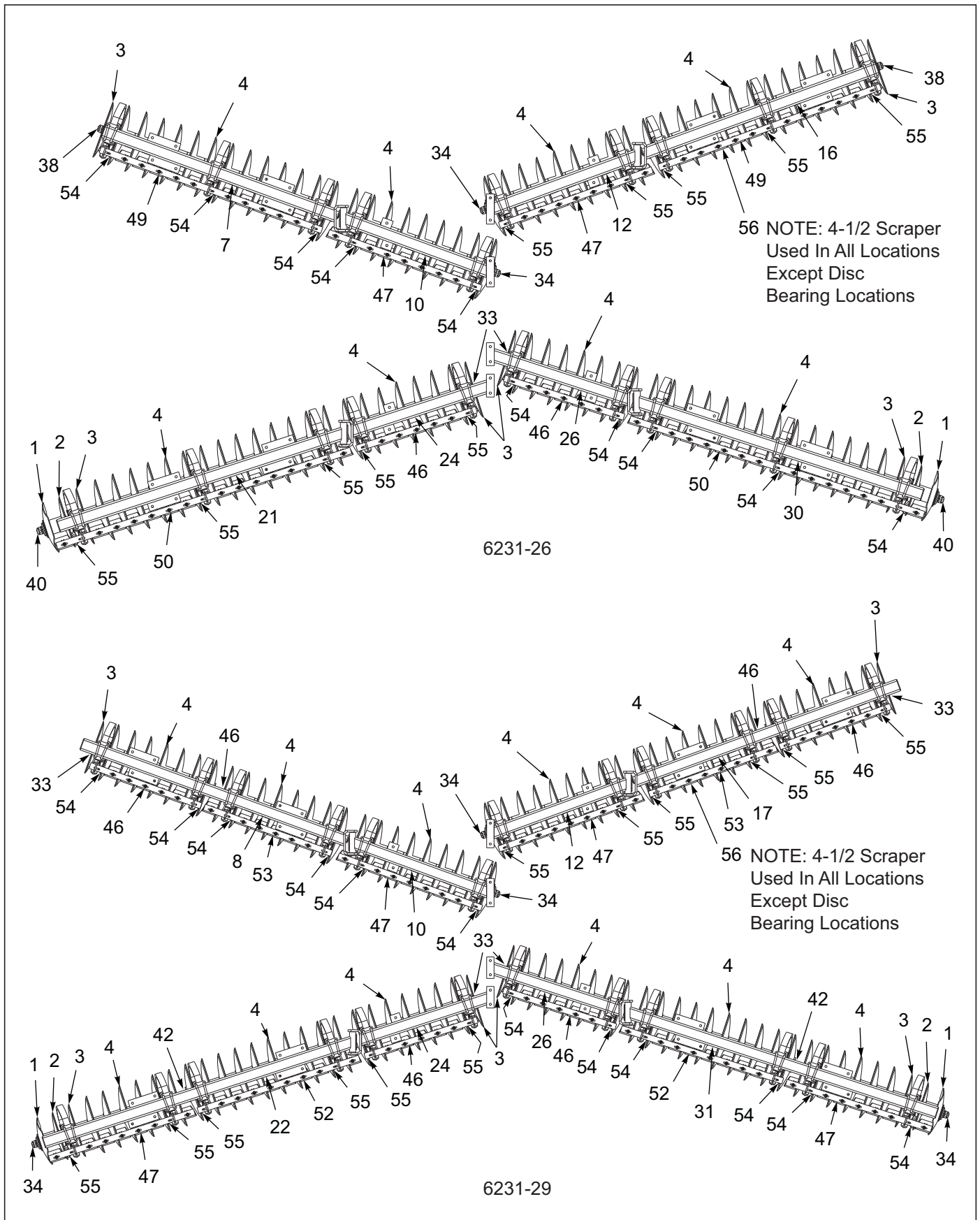


Figure 3-8: Disc Gang Assembly 6231 24' 7SP 4 GA (Non-Rollable) (2 of 4)

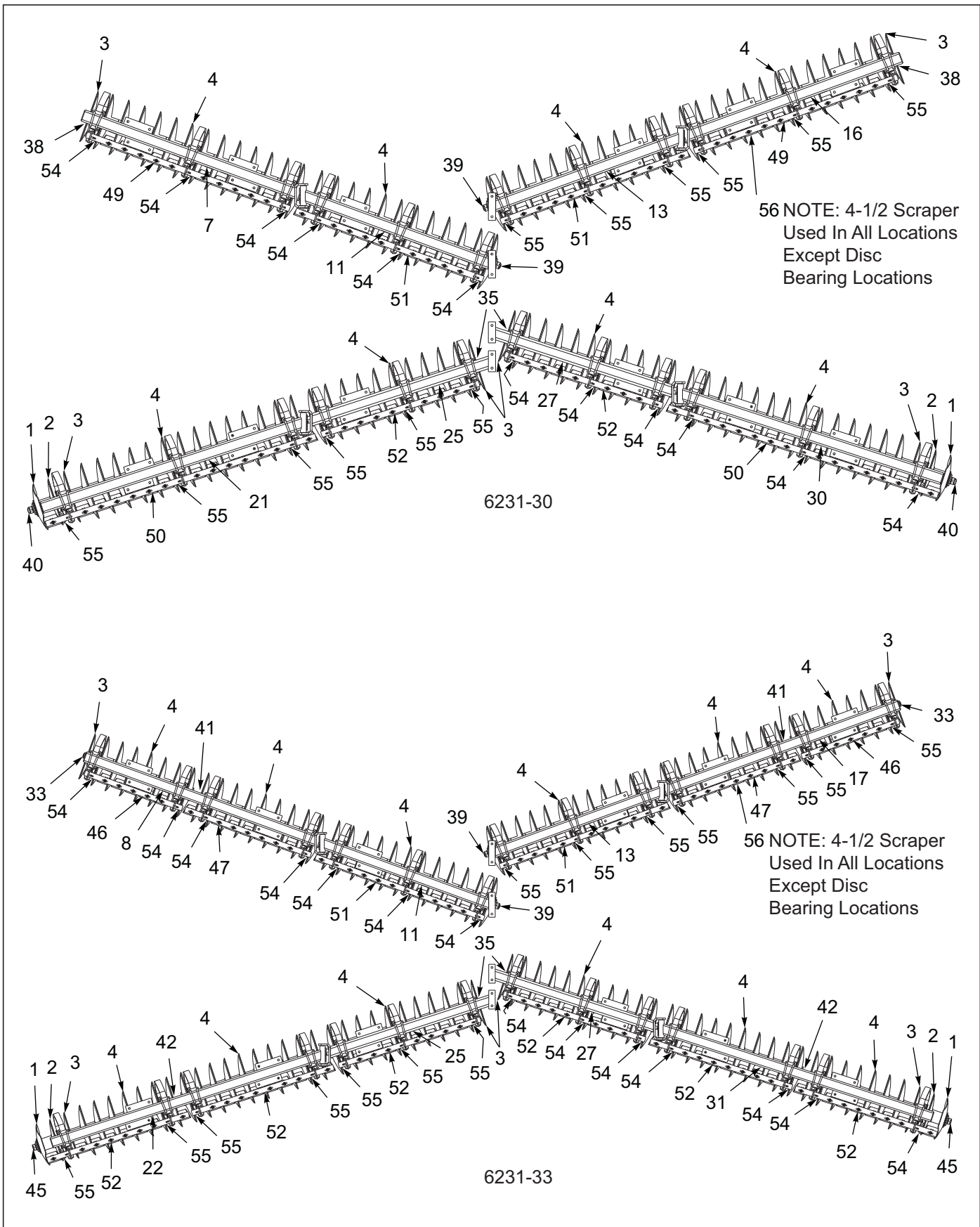


Figure 3-9: Disc Gang Assembly 6231 24" 7SP 4 GA (Non-Rollable) (3 of 4)

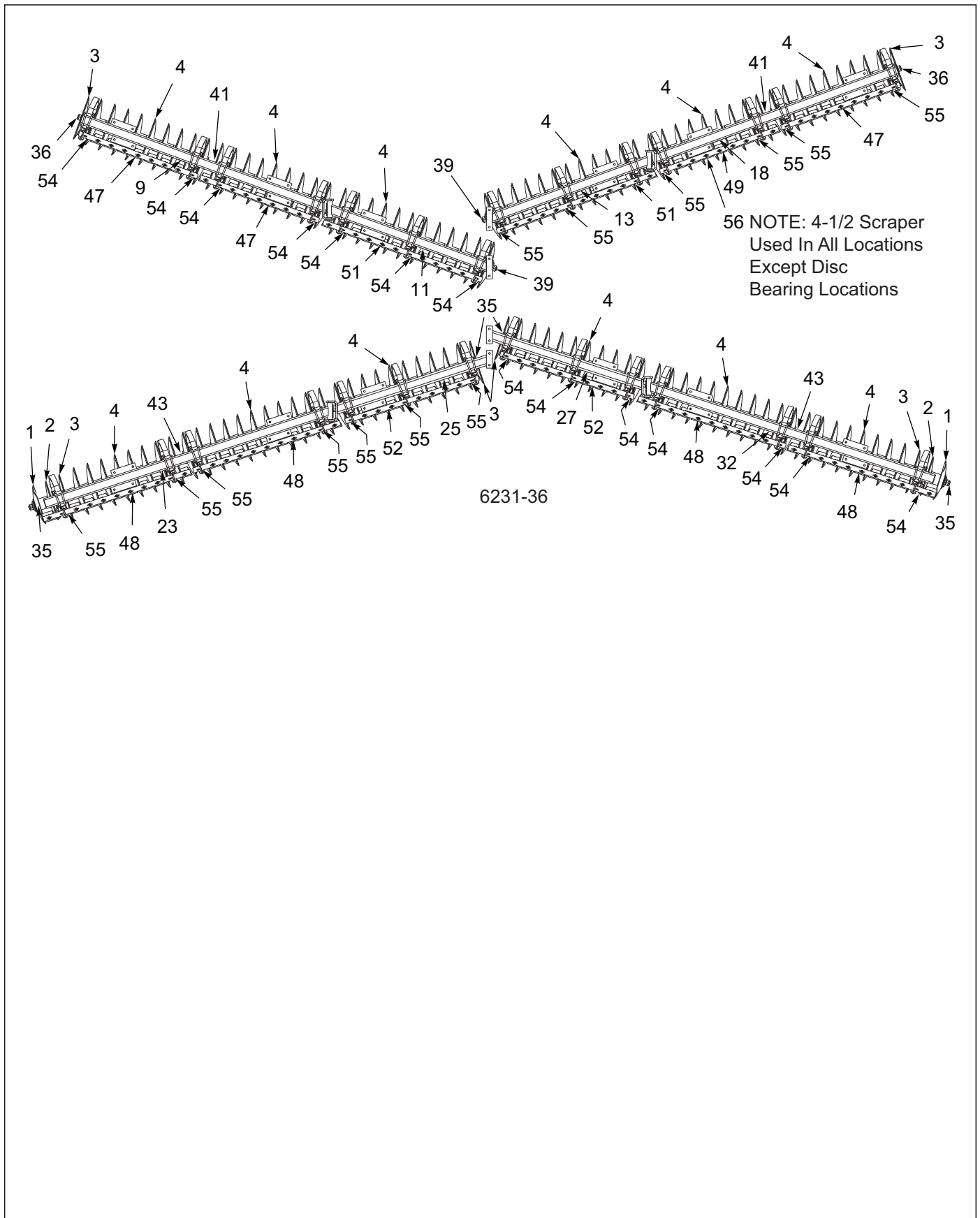


Figure 3-10: Disc Gang Assembly 6231 24" 7SP 4 GA (Non-Rollable) (4 of 4)

Disc Gang Assembly 24" 7SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	198289	GANG ASSY, 24" 7SP 4GA 21	*						
--	198290	GANG ASSY, 24" 7SP 4GA 23		*					
--	198291	GANG ASSY, 24" 7SP 4GA 26			*				
--	198292	GANG ASSY, 24" 7SP 4GA 29				*			
--	198293	GANG ASSY, 24" 7SP 4GA 30					*		
--	198294	GANG ASSY, 24" 7SP 4GA 33						*	
--	198295	GANG ASSY, 24" 7SP 4GA 36							*
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	186100	DISC BLADE, 20" X 1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	155617	DISC BLADE, 22" X 1/4" 1-3/4 ID	6	6	6	6	6	6	6
4	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	62	70	86	94	98	110	118
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	153713	SHAFT, GANG 55-1/2 L	4	2	2	4	--	2	--
34	154663	SHAFT, GANG 62-1/2 L	2	2	2	4	--	--	--
35	141165	SHAFT, GANG 76-1/2 L	2	--	--	--	2	2	4
36	180147	SHAFT, GANG 69-1/2 L	--	2	--	--	--	--	2
37	149592	SHAFT, GANG 90-1/2 L	--	2	--	--	--	--	--
38	156082	SHAFT, GANG 98 L	--	--	2	--	2	--	--
39	156921	SHAFT, GANG 83-1/2 L	--	--	--	--	2	2	2
40	199399	SHAFT, GANG 119 L	--	--	2	--	2	--	--
41	180087	SHAFT, GANG 61-1/2 L	--	--	--	--	--	2	2
42	142580	SHAFT, GANG 68-1/2	--	--	--	2	--	2	--

Disc Gang Assembly 24" 7SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	156922	SHAFT, GANG 76 L	--	--	--	--	--	--	2
44	164562	SHAFT, GANG 69 L	--	--	--	--	--	2	--
45	171021	SHAFT, GANG 54-1/2 L	--	--	--	2	--	--	--
46	153698	SCRAPER BAR, 7 SP 7 HOLE	4	2	2	4	--	2	--
47	153700	SCRAPER BAR, 7 SP 9 HOLE	2	4	2	4	--	2	4
48	153702	SCRAPER BAR, 7 SP 11 HOLE	2	--	--	--	--	--	4
49	153704	SCRAPER BAR, 7 SP 13 HOLE	--	2	2	--	2	--	--
50	182328	SCRAPER BAR, 7 SP 17 HOLE	--	--	2	--	2	--	--
51	153703	SCRAPER BAR, 7 SP 12 HOLE	--	--	--	--	2	2	2
52	153701	SCRAPER BAR, 7 SP 10 HOLE	--	--	--	2	--	6	2
53	153699	SCRAPER BAR, 7 SP 8 HOLE	--	--	--	2	--	--	--
54	180141	SCRAPER, DUAL LT, 7-24" LC	8	10	10	12	12	14	14
55	180140	SCRAPER, DUAL RT, 7-24" LC	8	10	10	12	12	14	14
56	191444	SCRAPER, 4-1/2 IN LC	52	56	72	76	80	88	96

Disc Gang Assembly 24" 8-3/4 SP Rollable 4 GA

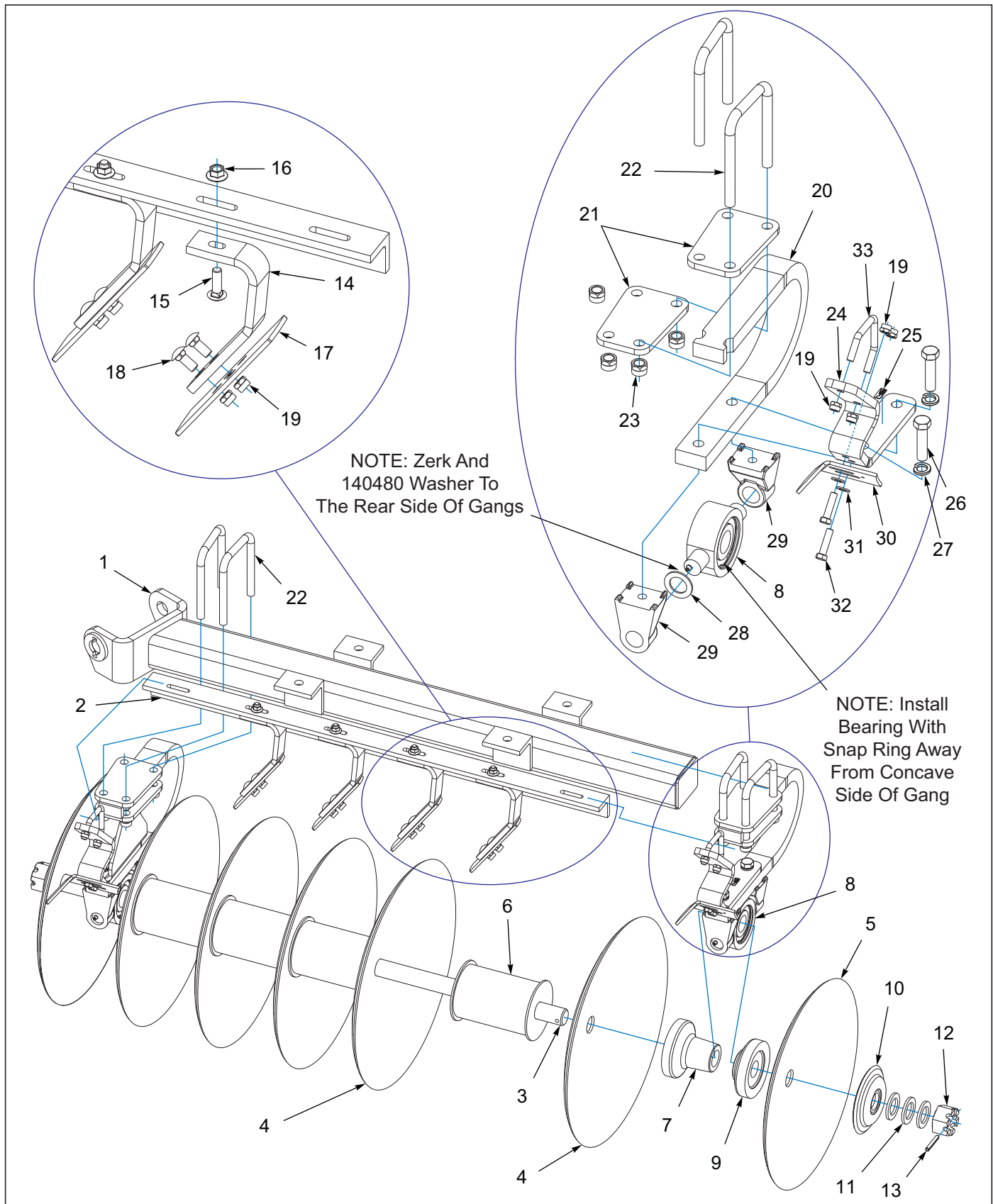


Figure 3-11: Disc Gang Assembly 24" 8-3/4SP Rollable 4 GA

Disc Gang Assembly 24" 8-3/4 SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-19 THRU 3-23)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-19 THRU 3-23)	REF
3	-----	GANG SHAFT (SEE PAGES 3-19 THRU 3-23)	REF
4	142662	DISC BLADE, 24 X 1/4 1-3/4ID (ROLLABLE)	
5	142660	DISC BLADE, 22 X 1/4 1-3/4ID (ROLLABLE)	
6	140496	SPOOL WLDMT, 8-3/4"	
7	140486	HALF SPOOL, CONVEX	
8	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
9	140485	HALF SPOOL, CONCAVE	
10	140469	END COLLAR	
11	141154	WASHER, GANG SHAFT	
12	23085	NUT, HEX SLOTTED 1-3/4 - 5	
13	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
14	172724	ARM, SCRAPER	
15	160161	SHAKER BOLT 1/2-13X1-3/4 GR8ZP	
16	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	
17	140488	SCRAPER 4-1/2 IN	
18	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
19	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
20	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
20	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
21	140483	PLATE, DISC SHANK MOUNT	
22	140484	U-BOLT, 3/4 X 5	
23	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
24	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
24	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
25	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
26	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	
27	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
28	140480	WASHER, TRUNNION	
29	140479	MOUNT, TRUNNION	
30	140492	SCRAPER, DUAL RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
30	140493	SCRAPER, DUAL LEFT (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
31	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
32	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
33	140487	UBOLT, SCRAPER BAR MOUNT	

Disc Gang Assembly 24" 8-3/4SP Rollable 4 GA

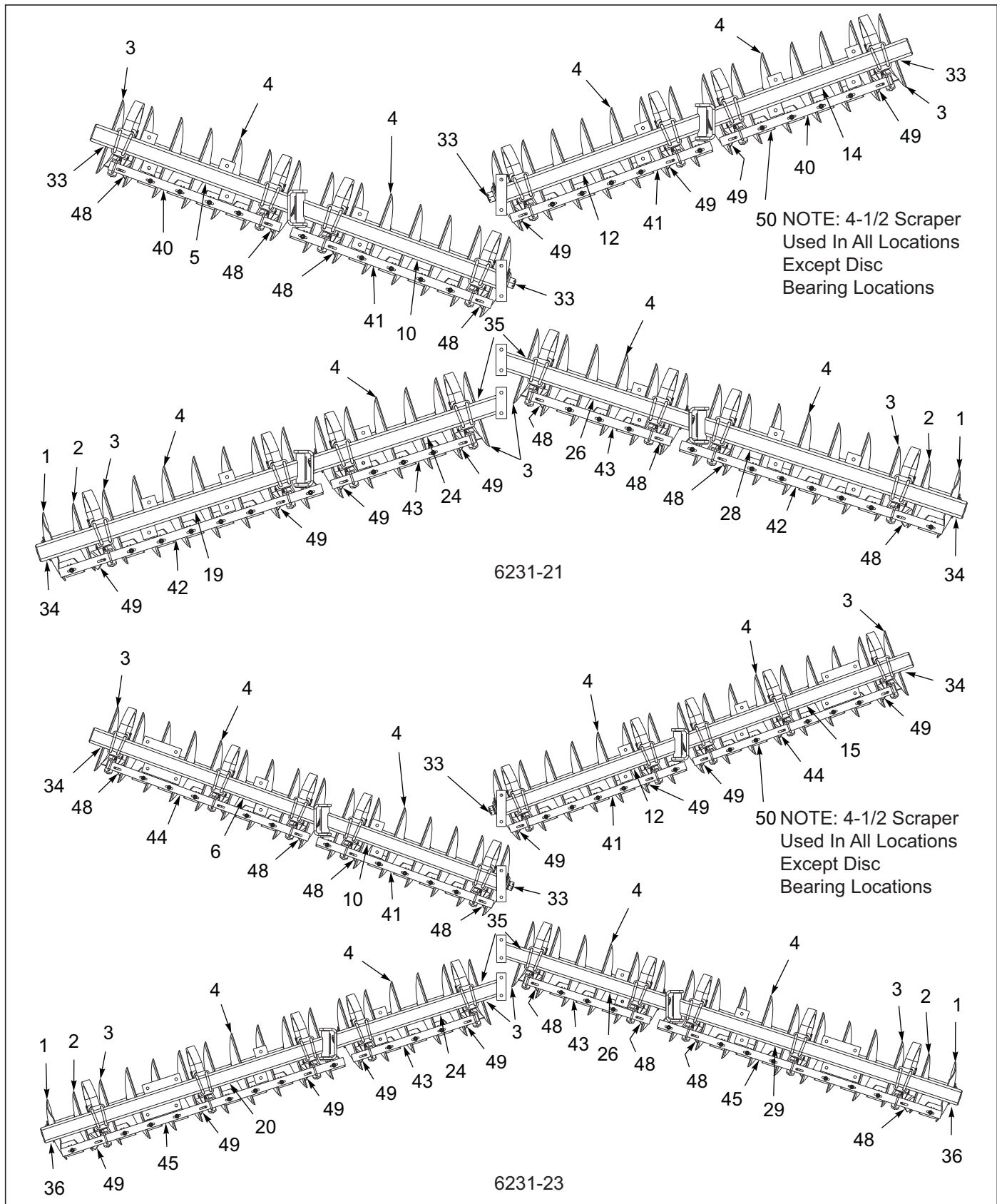


Figure 3-12: Disc Gang Assembly 6231 24" 8-3/4SP Rollable 4 GA (1 of 4)

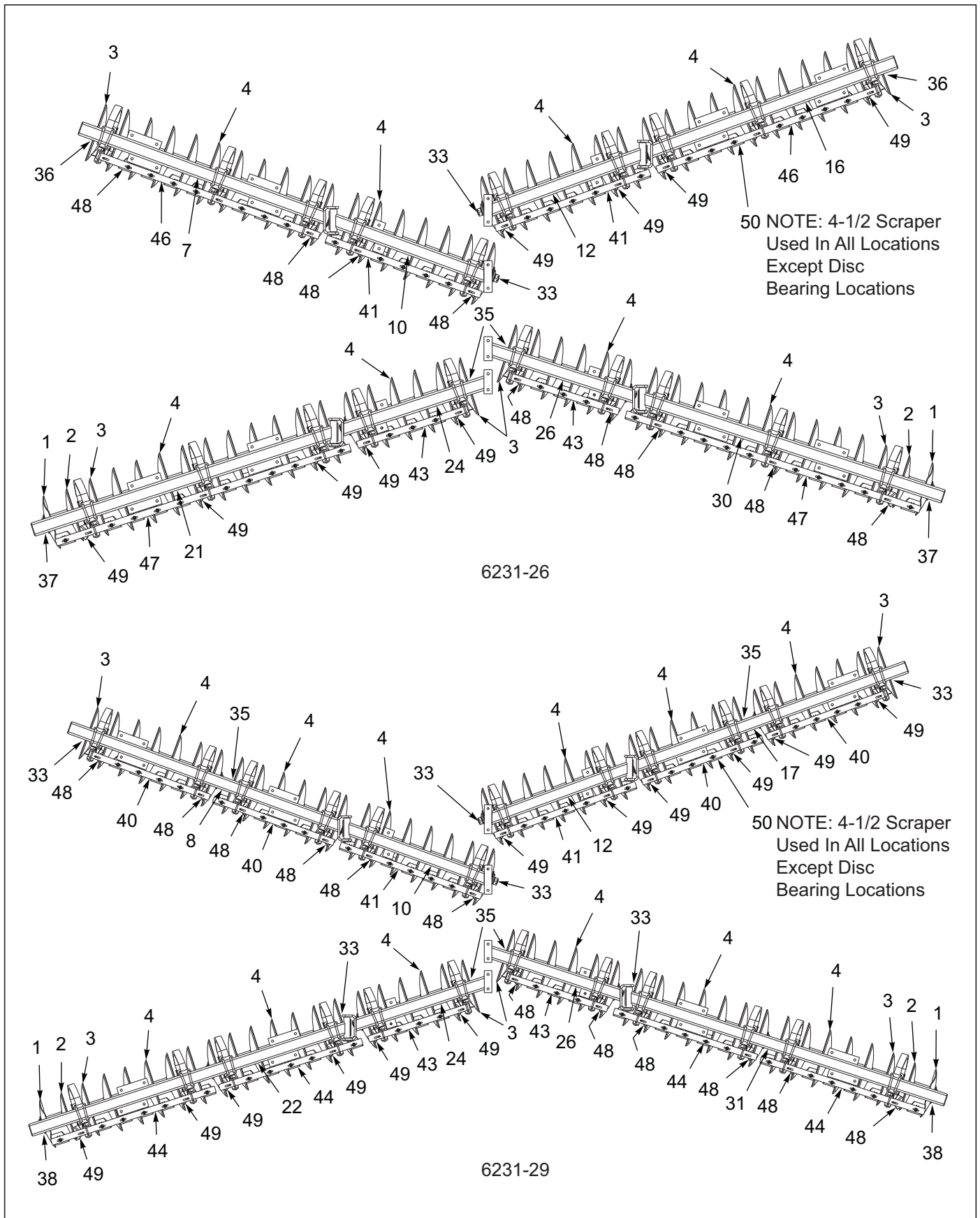


Figure 3-13: Disc Gang Assembly 6231 24" 8-3/4SP Rollable 4 GA (2 of 4)



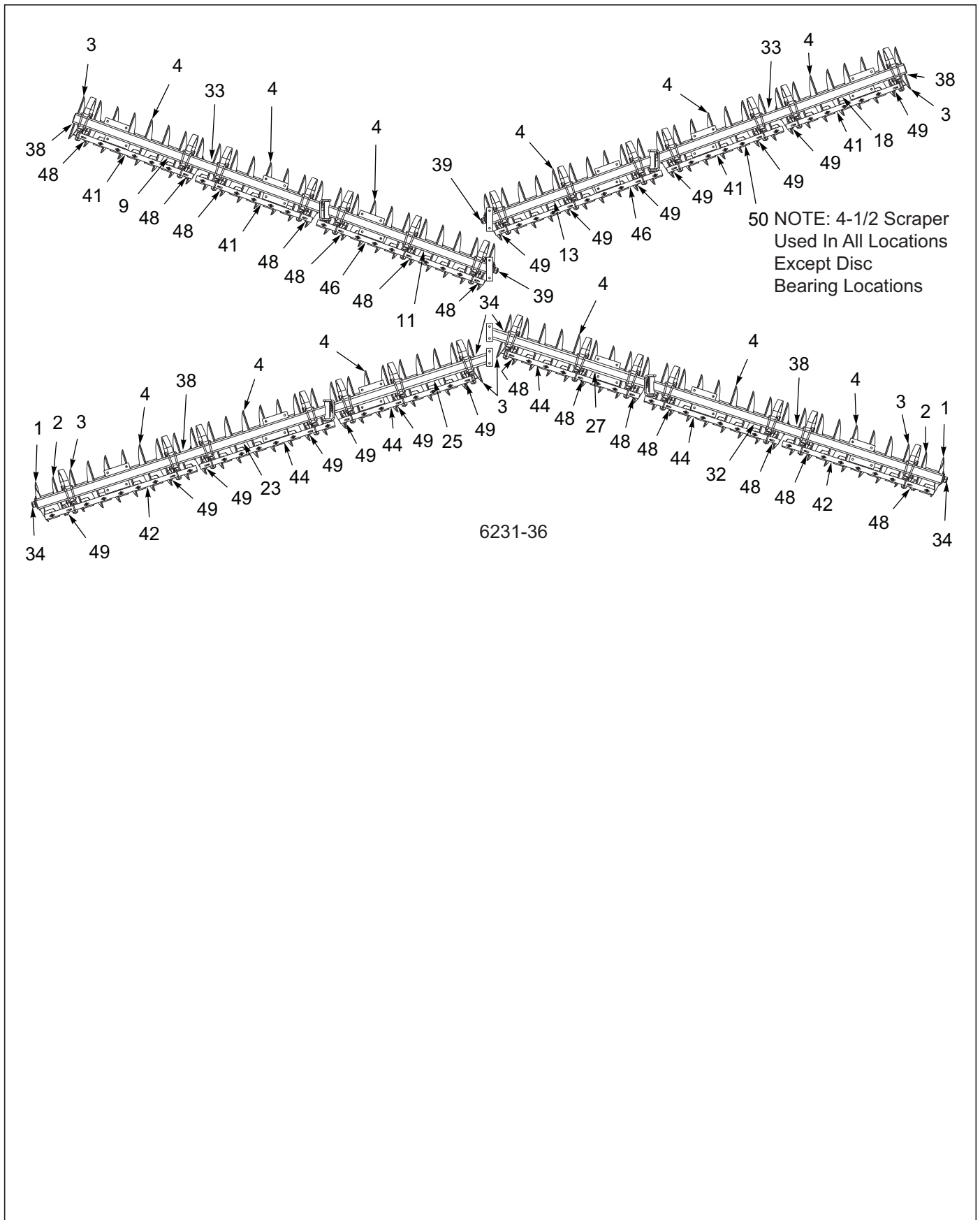


Figure 3-15: Disc Gang Assembly 6231 24" 8-3/4SP Rollable 4 GA (4 of 4)

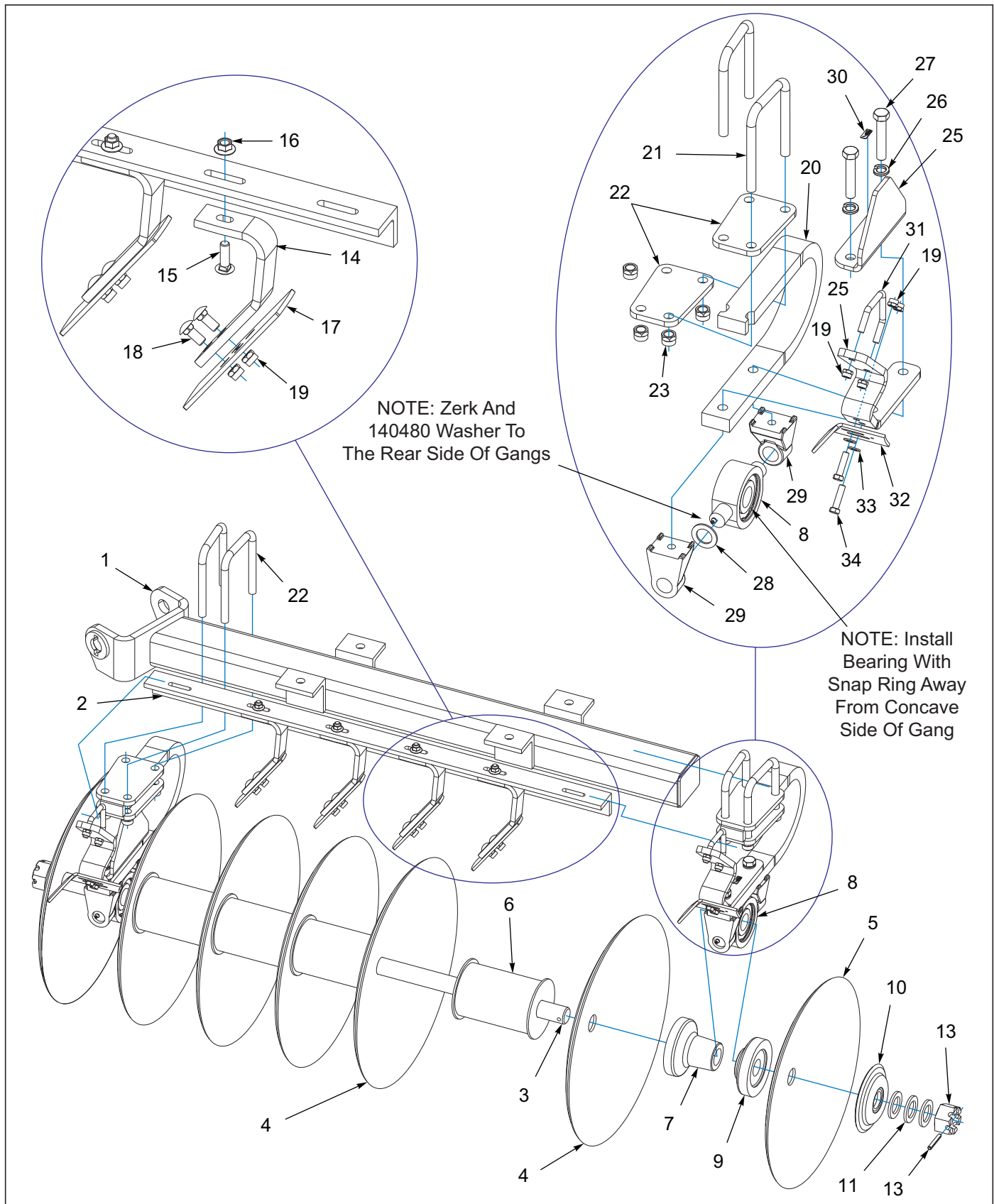
Disc Gang Assembly 24" 8-3/4SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	193555	GANG ASSY, 24" 4GA ROLL 21	*						
--	193556	GANG ASSY, 24" 4GA ROLL 23		*					
--	193557	GANG ASSY, 24" 4GA ROLL 26			*				
--	193558	GANG ASSY, 24" 4GA ROLL 29				*			
--	193559	GANG ASSY, 24" 4GA ROLL 30					*		
--	193560	GANG ASSY, 24" 4GA ROLL 33						*	
--	193561	GANG ASSY, 24" 4GA ROLL 36							*
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	140467	DISC BLADE, 20" 1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	142660	DISC BLADE, 22 X 1/4 1-3/4ID	6	6	6	6	6	6	6
4	142662	DISC BLADE, 24 X 1/4 1-3/4ID	48	56	64	72	76	84	92
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	1	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	141163	SHAFT, GANG 59 L	4	2	2	6	--	4	--
34	141165	SHAFT, GANG 76-1/2 L	2	2	2	--	2	2	4
35	141184	SHAFT, GANG 50-1/2 L	2	2	2	4	--	2	4
36	141186	SHAFT, GANG 94 L	--	2	2	--	2	--	2
37	141187	SHAFT, GANG 111-1/2 L	--	--	2	--	2	--	--
38	141164	SHAFT, GANG 68 L	--	--	2	2	--	2	2
39	141166	SHAFT, GANG 85-1/2 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 24” 8-3/4SP Rollable 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	140493	SCRAPER, DUAL LEFT	8	10	10	12	12	14	14
49	140492	SCRAPER, DUAL RIGHT	8	10	10	12	12	14	14
50	140488	SCRAPER 4-1/2 IN	38	42	50	54	58	62	70

Disc Gang Assembly 24" 8-3/4SP 4 GA (Non-Rollable)



Disc Gang Assembly 24" 8-3/4SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	----	GANG BAR (SEE PAGES 3-27 THRU 3-31)	REF
2	----	SCRAPER BAR (SEE PAGES 3-27 THRU 3-31)	REF
3	----	GANG SHAF (SEE PAGES 3-27 THRU 3-31)	REF
4	140465	DISC BLADE, 24" 1/4" 1-3/4" ID	
5	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	
6	140496	SPOOL WLDMT, 8-3/4"	
7	140486	HALF SPOOL, CONVEX	
8	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
9	140485	HALF SPOOL, CONCAVE	
10	140469	END COLLAR	
11	141154	WASHER, GANG SHAFT	
12	23085	NUT, HEX SLOTTED 1-3/4 - 5	
13	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
14	172724	ARM, SCRAPER	
15	160161	SHAKER BOLT 1/2-13X1-3/4 GR8ZP	
16	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	
17	140488	SCRAPER 4-1/2 IN	
18	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
19	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
20	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
20	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
21	140483	PLATE, DISC SHANK MOUNT	
22	140484	U-BOLT, 3/4 X 5	
23	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
24	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
24	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
25	143988	STOP, DISC SHANK	
26	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
27	114029	SCREW HX CAP 3/4-10X4 GR8	
28	140480	WASHER, TRUNNION	
29	140479	MOUNT, TRUNNION	
30	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
31	140487	UBOLT, SCRAPER BAR MOUNT	
32	140492	SCRAPER, DUAL RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
32	140493	SCRAPER, DUAL LEFT (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
33	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
34	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	

Disc Gang Assembly 24" 8-3/4SP 4 GA (Non-Rollable)

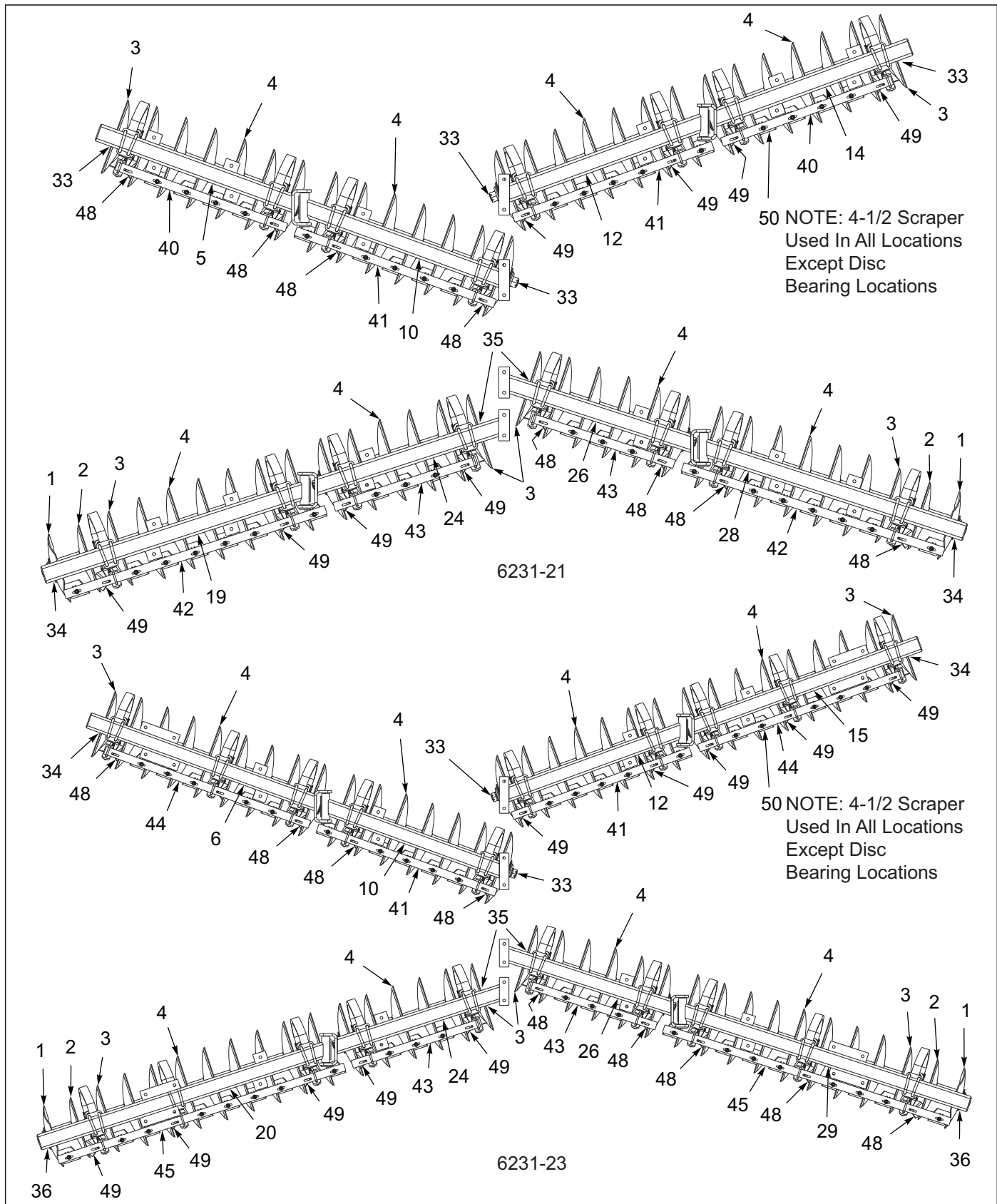
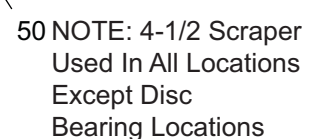
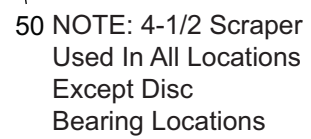


Figure 3-17: Disc Gang Assembly 6231 24" 8-3/4SP 4 GA (Non-Rollable) (1 of 4)



3-28

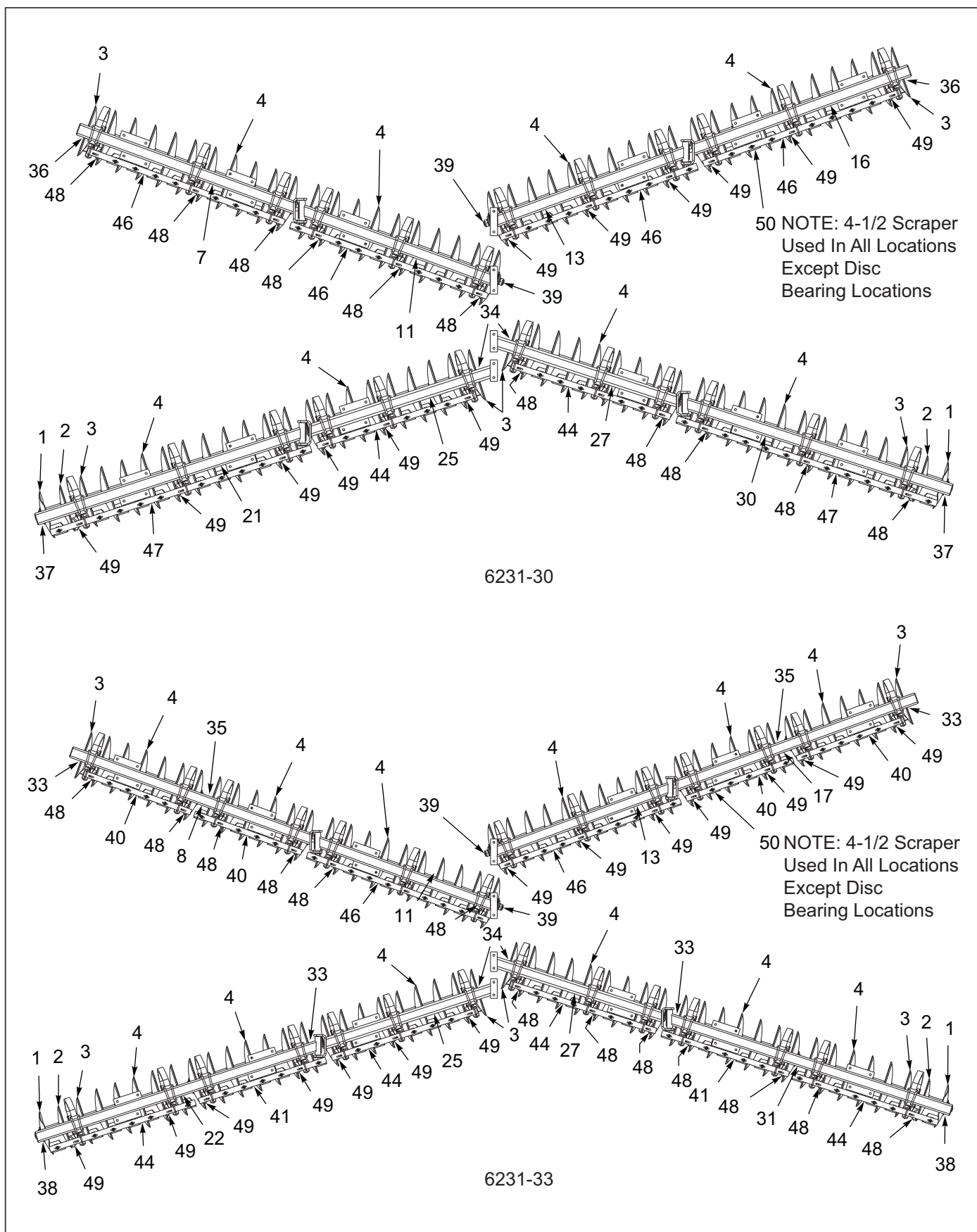


Figure 3-19: Disc Gang Assembly 6231 24' 8-3/4SP 4 GA (Non-Rollable) (3 of 4)

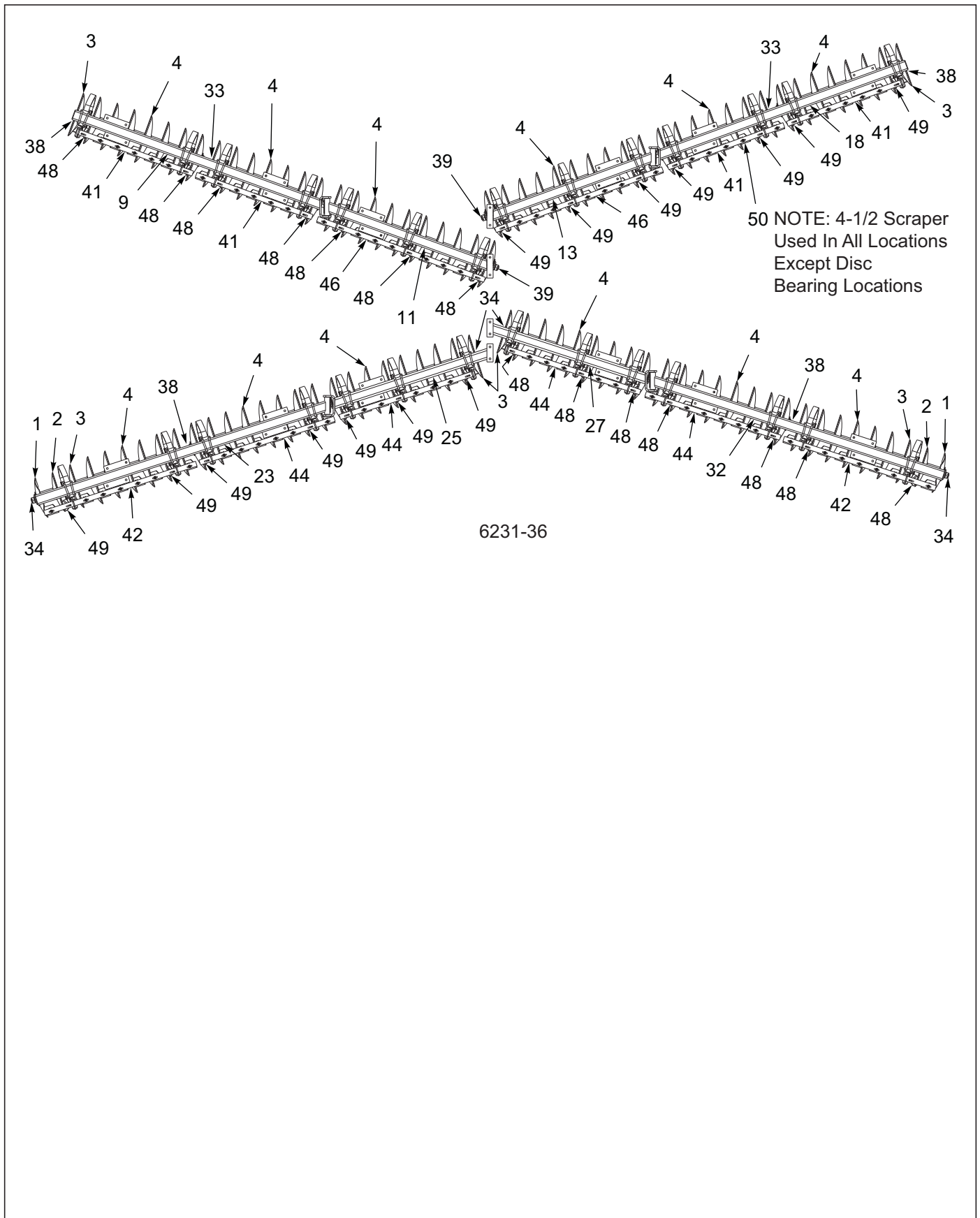


Figure 3-20: Disc Gang Assembly 6231 24" 8-3/4SP4 GA (Non-Rollable) (4 of 4)

Disc Gang Assembly 24" 8-3/4SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	191424	GANG ASSY, 24" 4GA 21	*						
--	191425	GANG ASSY, 24" 4GA 23	*						
--	191426	GANG ASSY, 24" 4GA 26	*						
--	191427	GANG ASSY, 24" 4GA 29	*						
--	191428	GANG ASSY, 24" 4GA 30	*						
--	191429	GANG ASSY, 24" 4GA 33	*						
--	191430	GANG ASSY, 24" 4GA 36	*						
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	140467	DISC BLADE, 20" 1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	6	6	6	6	6	6	6
4	140465	DISC BLADE, 24" 1/4" 1-3/4" ID	48	56	64	72	76	84	92
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	141163	SHAFT, GANG 59 L	4	2	2	6	--	4	2
34	141165	SHAFT, GANG 76-1/2 L	2	2	--	--	2	2	4
35	141184	SHAFT, GANG 50-1/2 L	2	2	2	4	--	2	--
36	141186	SHAFT, GANG 94 L	--	2	2	--	2	--	--
37	141187	SHAFT, GANG 111-1/2 L	--	--	2	--	2	--	--
38	141164	SHAFT, GANG 68 L	--	--	--	2	--	2	7
39	141166	SHAFT, GANG 85-1/2 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 24" 8-3/4SP 4 GA (Non-Rollable)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	140493	SCRAPER, DUAL LEFT	8	10	10	12	12	14	14
49	140492	SCRAPER, DUAL RIGHT	8	10	10	12	12	14	14
50	140488	SCRAPER 4-1/2 IN	38	42	50	54	58	62	70

Disc Gang Assembly 24" 8-3/4 SP HDS 4 GA (Heavy Duty Scraper)

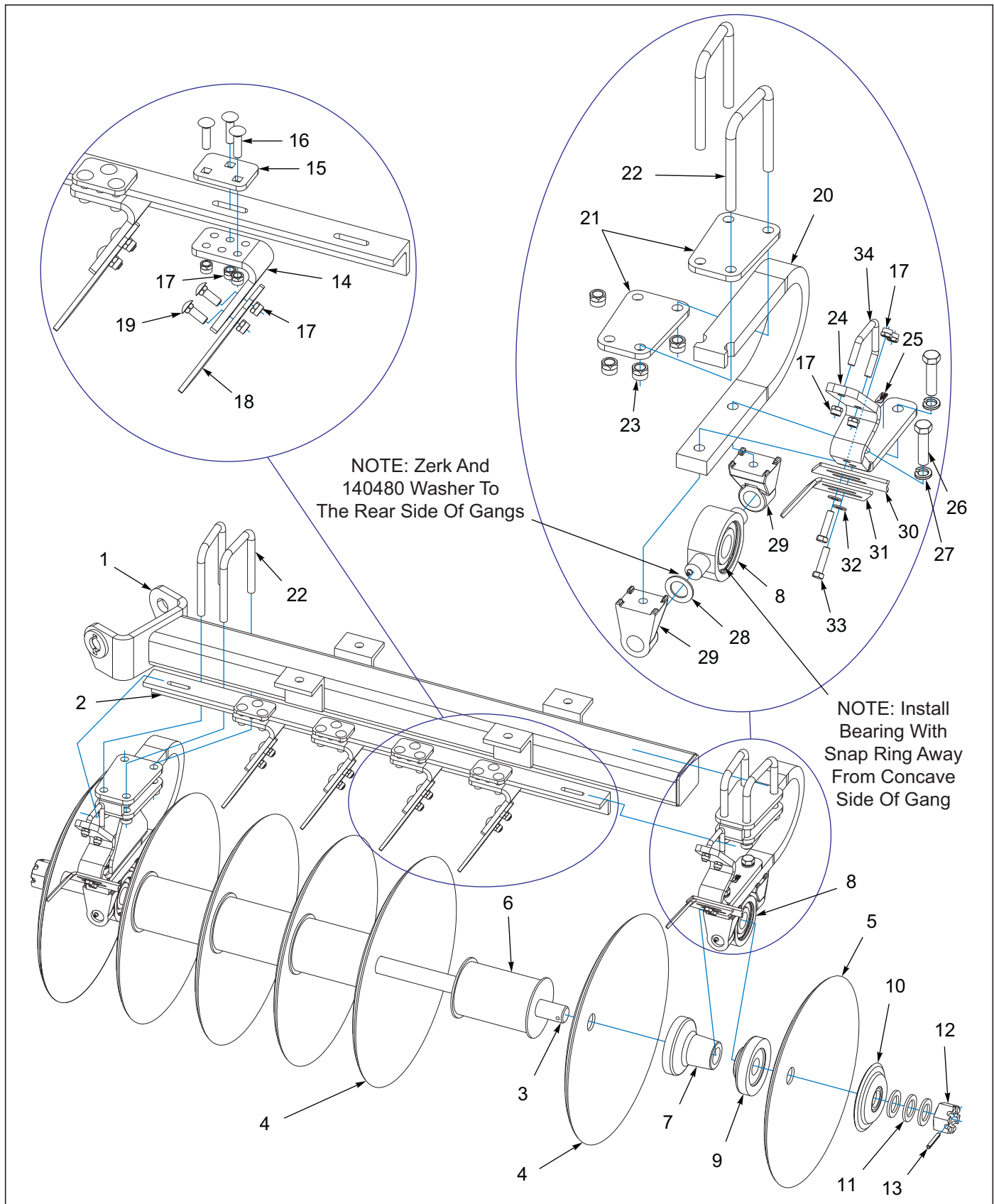


Figure 3-21: Disc Gang Assembly 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

Disc Gang Assembly 24" 8-3/4 SP HDS 4 GA (Heavy Duty Scraper)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-35 THRU 3-39)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-35 THRU 3-39)	REF
3	-----	GANG SHAFT (SEE PAGES 3-35 THRU 3-39)	REF
4	140465	DISC BLADE, 24" 1/4" 1-3/4" ID	
5	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	
6	140496	SPOOL WLDMT, 8-3/4"	
7	140486	HALF SPOOL, CONVEX	
8	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
9	140485	HALF SPOOL, CONCAVE	
10	140469	END COLLAR	
11	141154	WASHER, GANG SHAFT	
12	23085	NUT, HEX SLOTTED 1-3/4 - 5	
13	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
14	161523	ARM, SCRAPER	
15	161524	CLAMP, SCRAPER	
16	1-654-010070-05	SCREW, RDHD SQNCK 1/2-13X2 GR5	
17	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
18	161522	BLADE, SCRAPER	
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
20	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
20	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
21	140483	PLATE, DISC SHANK MOUNT	
22	140484	U-BOLT, 3/4 X 5	
23	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
24	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
24	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
25	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
26	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	
27	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
28	140480	WASHER, TRUNNION	
29	140479	MOUNT, TRUNNION	
30	174329	SCRAPER, DUAL ADJ BLACK	
31	174330	SCRAPER, DUAL ADJ RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
31	174331	SCRAPER, DUAL ADJ LEFT (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
32	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
33	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
34	140487	UBOLT, SCRAPER BAR MOUNT	

Disc Gang Assembly 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

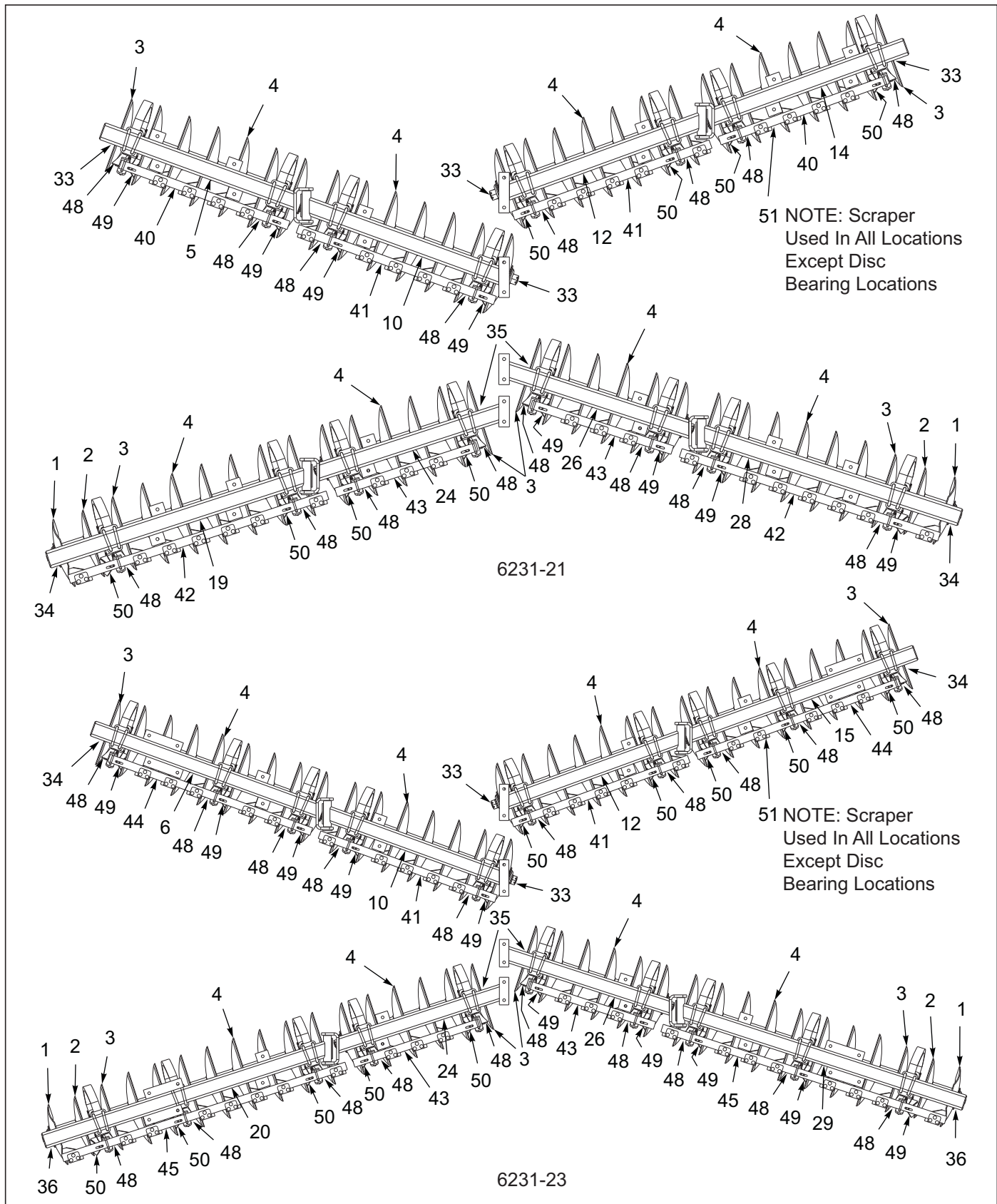


Figure 3-22: Disc Gang Assembly 6231 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (1 of 4)

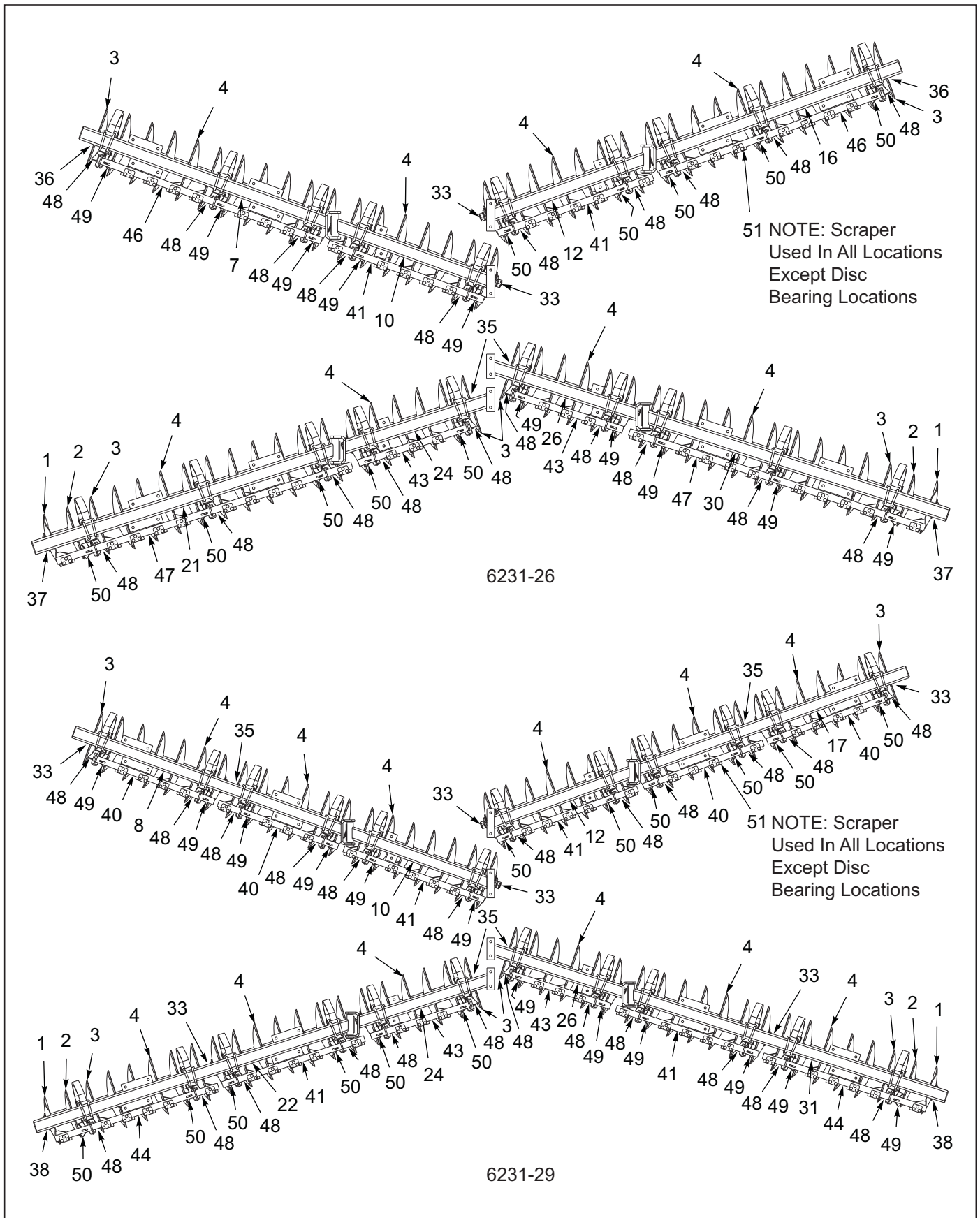


Figure 3-23: Disc Gang Assembly 6231 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (2 of 4)

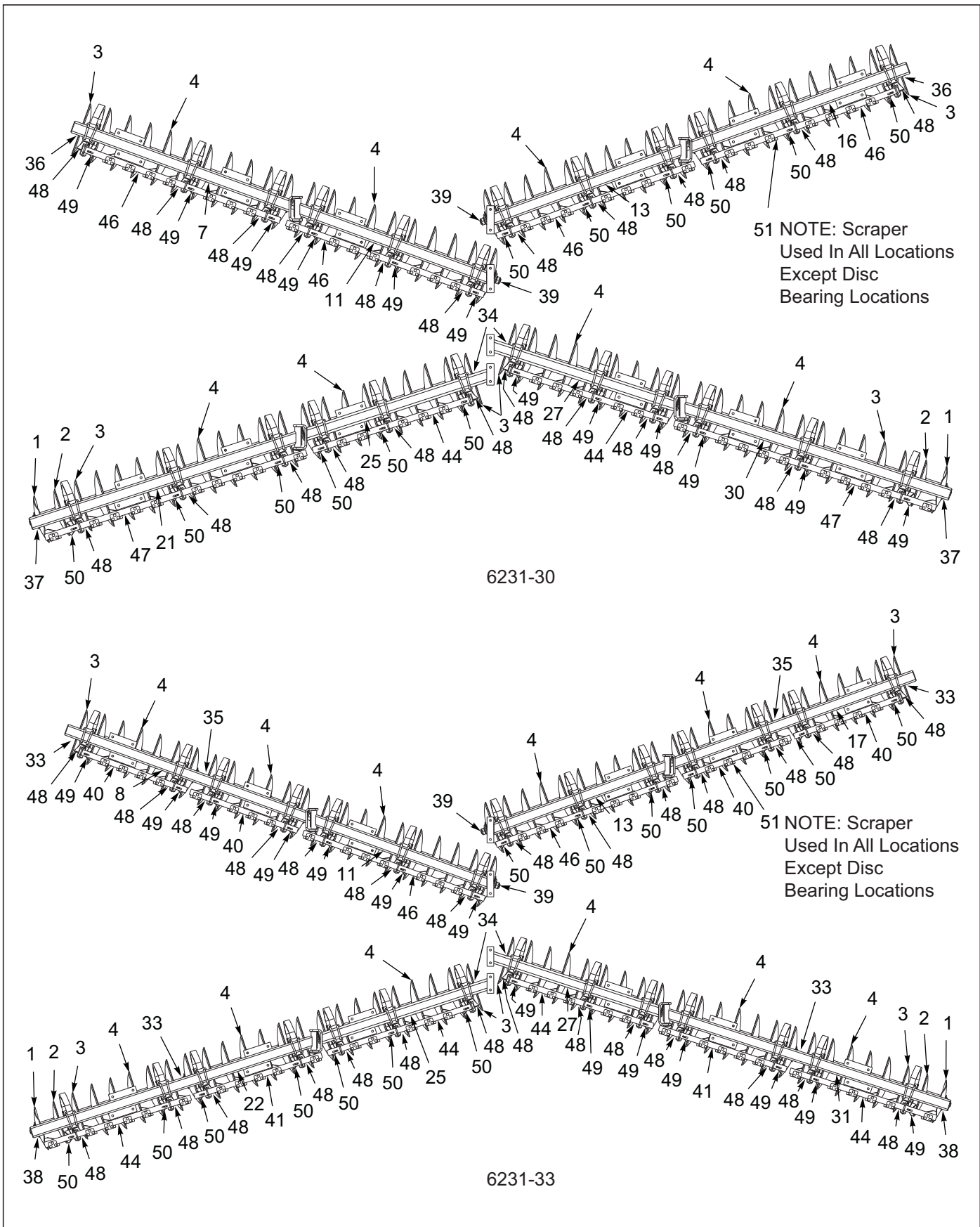


Figure 3-24: Disc Gang Assembly 6231 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (3 of 4)

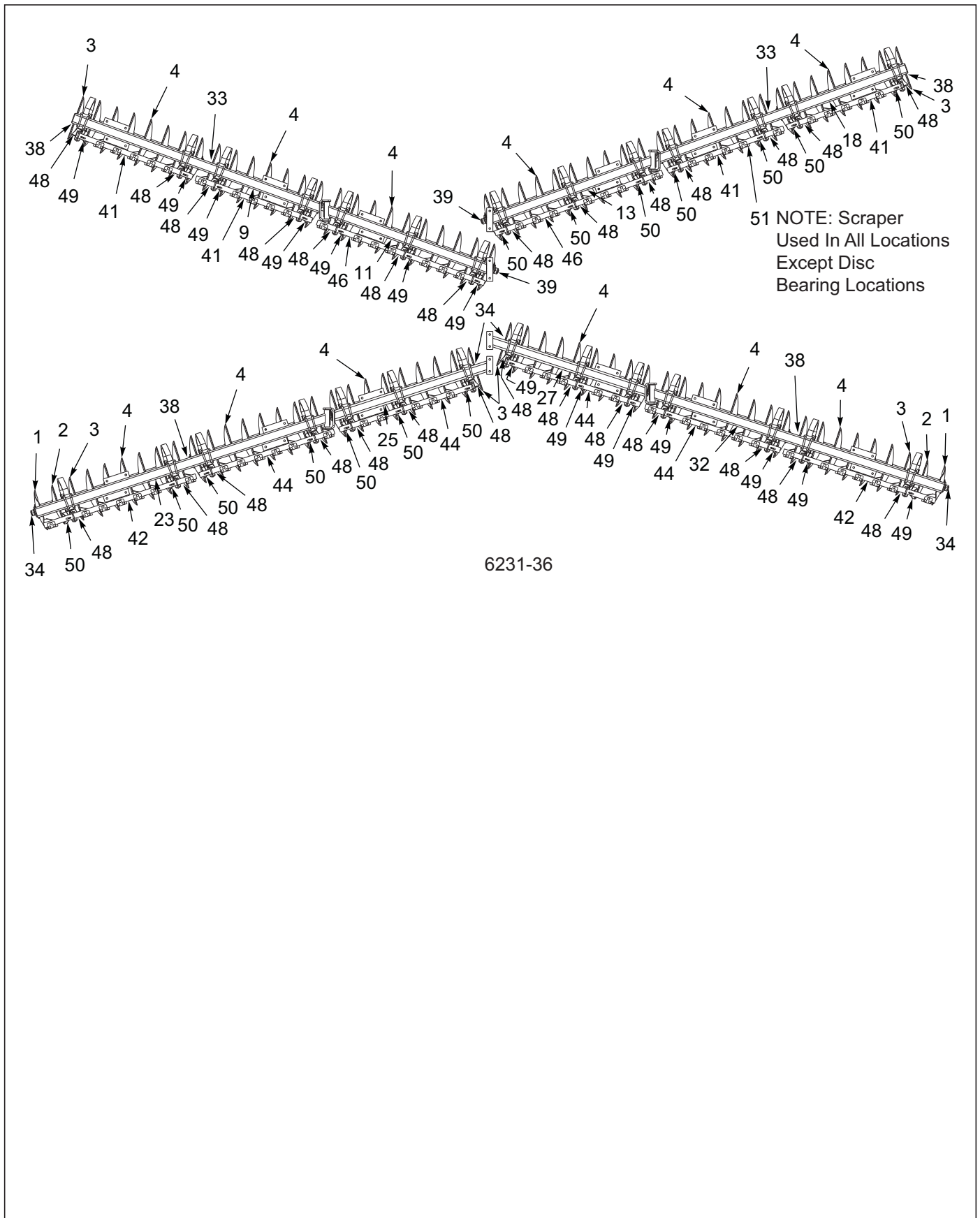


Figure 3-25: Disc Gang Assembly 6231 24" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (4 of 4)

Disc Gang Assembly 24" 8-3/4SP HDS 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	195640	GANG ASSY, 24" 4GA HDS 21	*						
--	195641	GANG ASSY, 24" 4GA HDS 23		*					
--	195642	GANG ASSY, 24" 4GA HDS 26			*				
--	195643	GANG ASSY, 24" 4GA HDS 29				*			
--	195644	GANG ASSY, 24" 4GA HDS 30					*		
--	195645	GANG ASSY, 24" 4GA HDS 33						*	
--	195646	GANG ASSY, 24" 4GA HDS 36							*
1	140468	DISC BLADE,20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	140467	DISC BLADE,20" 1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	6	6	6	6	6	6	6
4	140465	DISC BLADE,24" 1/4" 1-3/4" ID	48	56	64	72	76	84	92
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	141163	SHAFT, GANG 59 L	4	2	2	6	--	4	2
34	141165	SHAFT, GANG 76-1/2 L	2	2	--	--	2	2	4
35	141184	SHAFT, GANG 50-1/2 L	2	2	2	4	--	2	--
36	141186	SHAFT, GANG 94 L	--	2	2	--	2	--	--
37	141187	SHAFT, GANG 111-1/2 L	--	--	2	--	2	--	--
38	141164	SHAFT, GANG 68 L	--	--	--	2	--	2	4
39	141166	SHAFT, GANG 85-1/2 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 24" 8-3/4SP HDS 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	174329	SCRAPER, DUAL ADJ BACK	16	20	20	24	24	28	28
49	174331	SCRAPER, DUAL ADJ LEFT	8	10	10	12	12	14	14
50	174330	SCRAPER, DUAL ADJ RIGHT	8	10	10	12	12	14	14
51	161522	BLADE, SCRAPER	38	42	50	54	58	62	70

Disc Gang Assembly 26" 8-3/4SP 4 GA

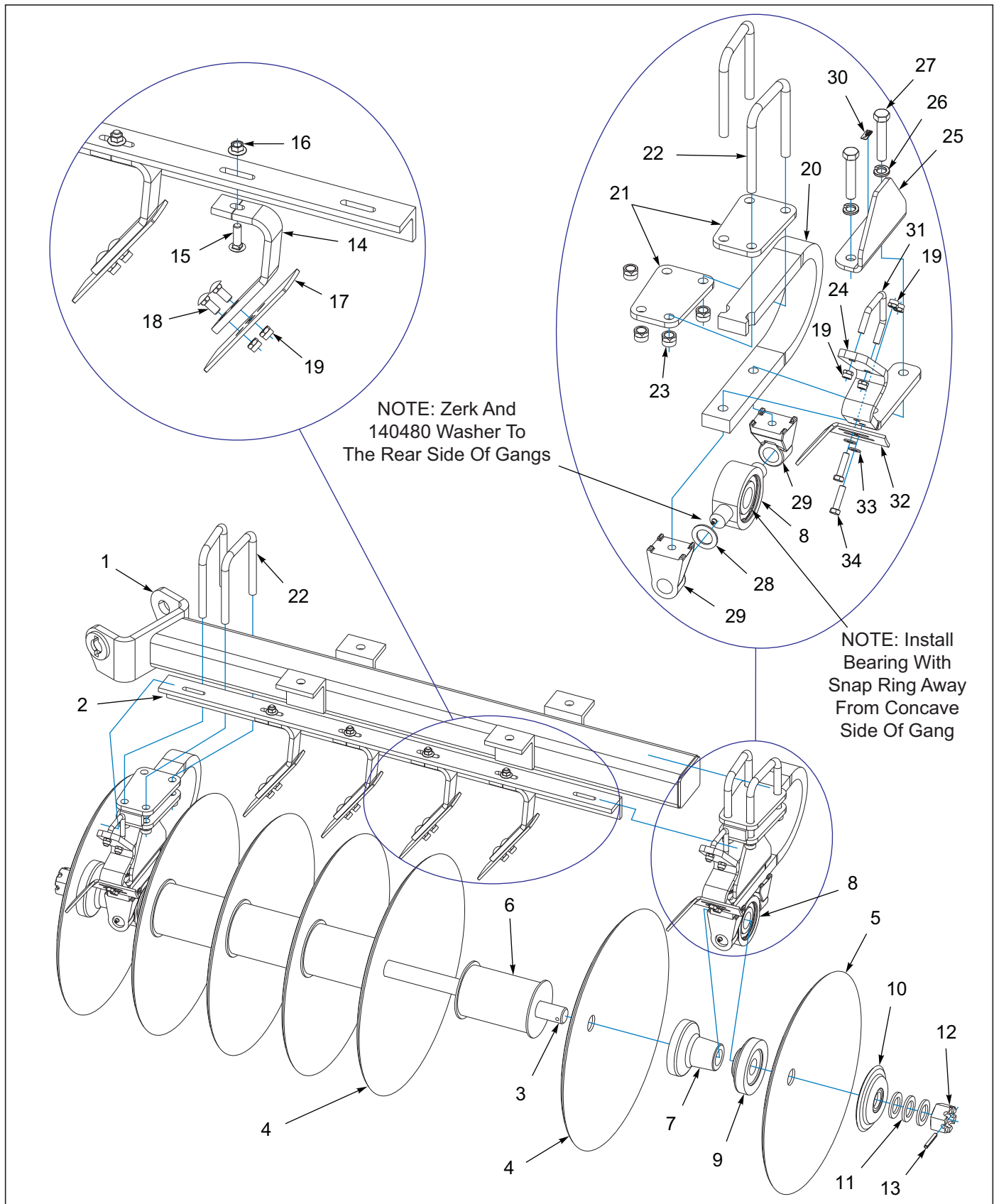


Figure 3-26: Disc Gang Assembly 26" 8-3/4SP 4 GA

Disc Gang Assembly 26" 8-3/4SP 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-43 THRU 3-47)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-43 THRU 3-47)	REF
3	-----	GANG SHAFT (SEE PAGES 3-43 THRU 3-47)	REF
4	169575	DISC BLADE 26"X1/4" 1-3/4" ID	
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	
6	140496	SPOOL WLDMT, 8-3/4"	
7	140486	HALF SPOOL, CONVEX	
8	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
9	140485	HALF SPOOL, CONCAVE	
10	140469	END COLLAR	
11	141154	WASHER, GANG SHAFT	
12	23085	NUT, HEX SLOTTED 1-3/4 - 5	
13	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
14	172724	ARM, SCRAPER	
15	160161	SHAKER BOLT 1/2-13X1-3/4 GR8ZP	
16	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	
17	191444	SCRAPER, 4-1/2 IN LC	
18	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
19	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
20	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
20	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
21	140483	PLATE, DISC SHANK MOUNT	
22	140484	U-BOLT, 3/4 X 5	
23	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
24	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
24	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
25	143988	STOP, DISC SHANK	
26	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
27	114029	SCREW HX CAP 3/4-10X4 GR8	
28	140480	WASHER, TRUNNION	
29	140479	MOUNT, TRUNNION	
30	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
31	140487	UBOLT, SCRAPER BAR MOUNT	
32	195694	SCRAPER, DUAL RT 28X8-3/4 (USED RIGHT FRONT AND LEFT REAR GANGS)	
32	195695	SCRAPER, DUAL LT 28X8-3/4 (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
33	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
34	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
35	140464	BEARING, DISC 1.775ID	
36	140473	WASHER, BEARING	
37	140475	CASTING, TRUNNION	
38	140476	INTERNAL RETAINING RING	
39	5000	ZERK FITTING 1/8NPT	

Disc Gang Assembly 26" 8-3/4SP 4 GA

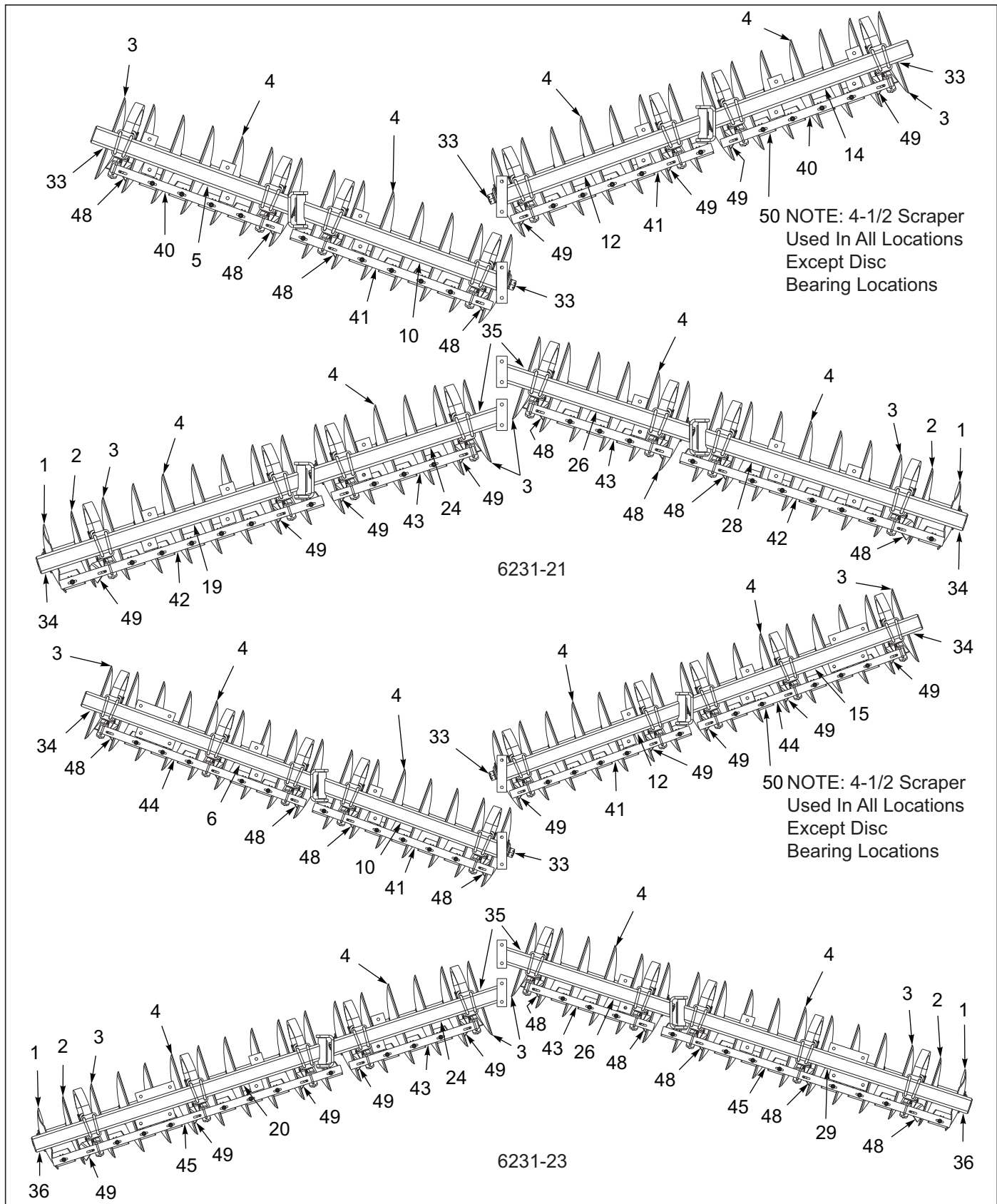


Figure 3-27: Disc Gang Assembly 6231 26" 8-3/4SP 4 GA (1 of 4)

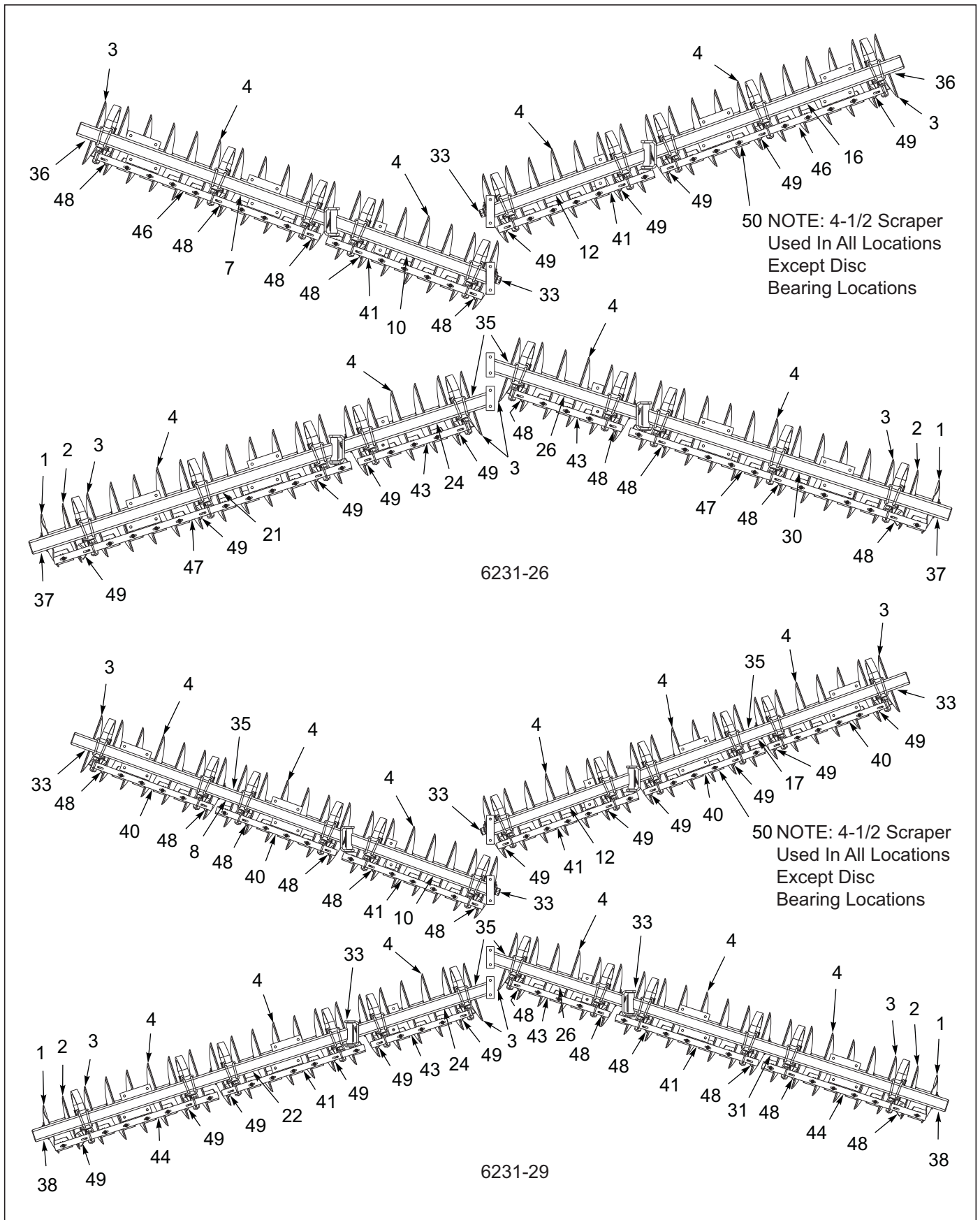


Figure 3-28: Disc Gang Assembly 6231 26" 8-3/4SP 4 GA (2 of 4)

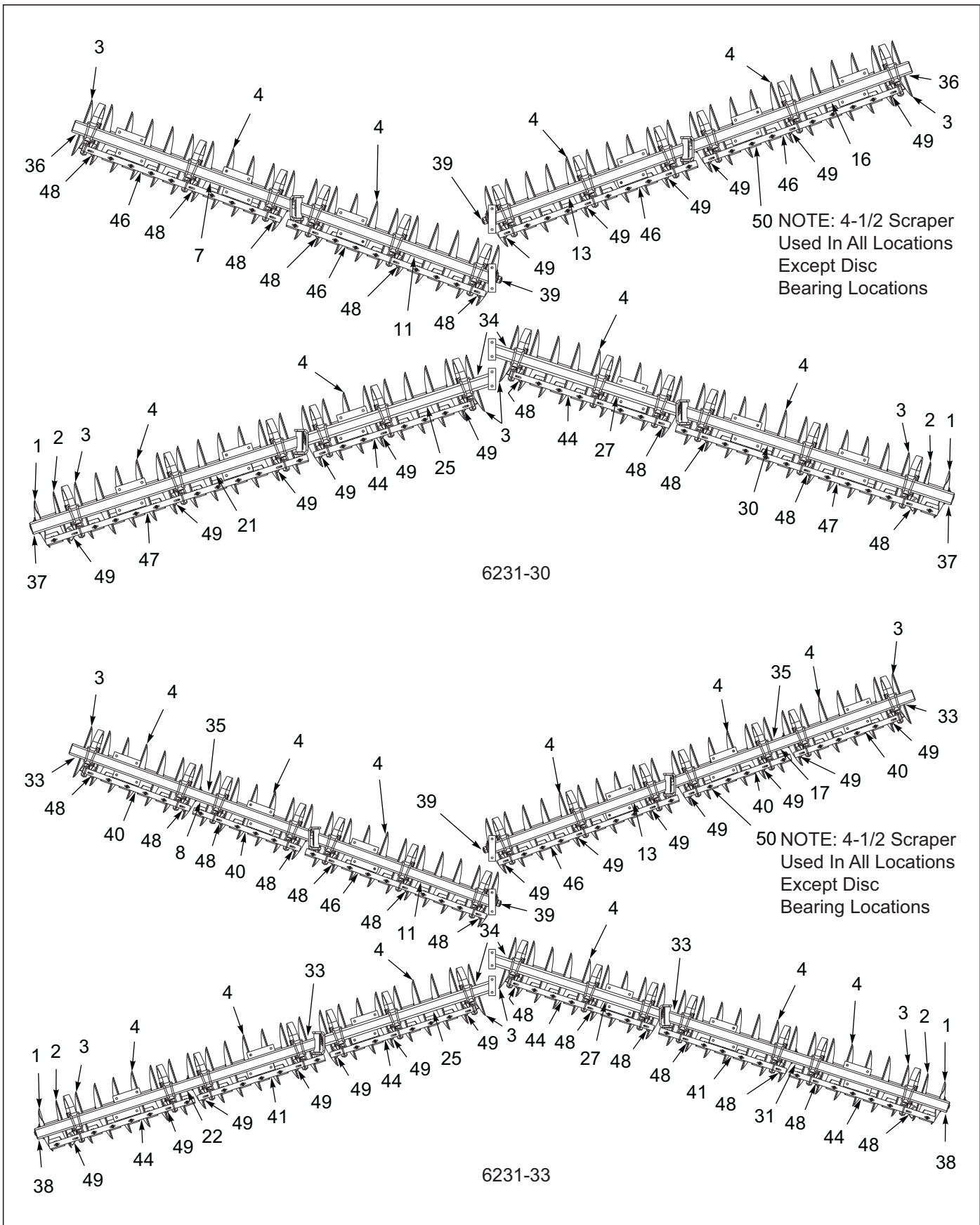


Figure 3-29: Disc Gang Assembly 6231 26" 8-3/4SP 4 GA (3 of 4)

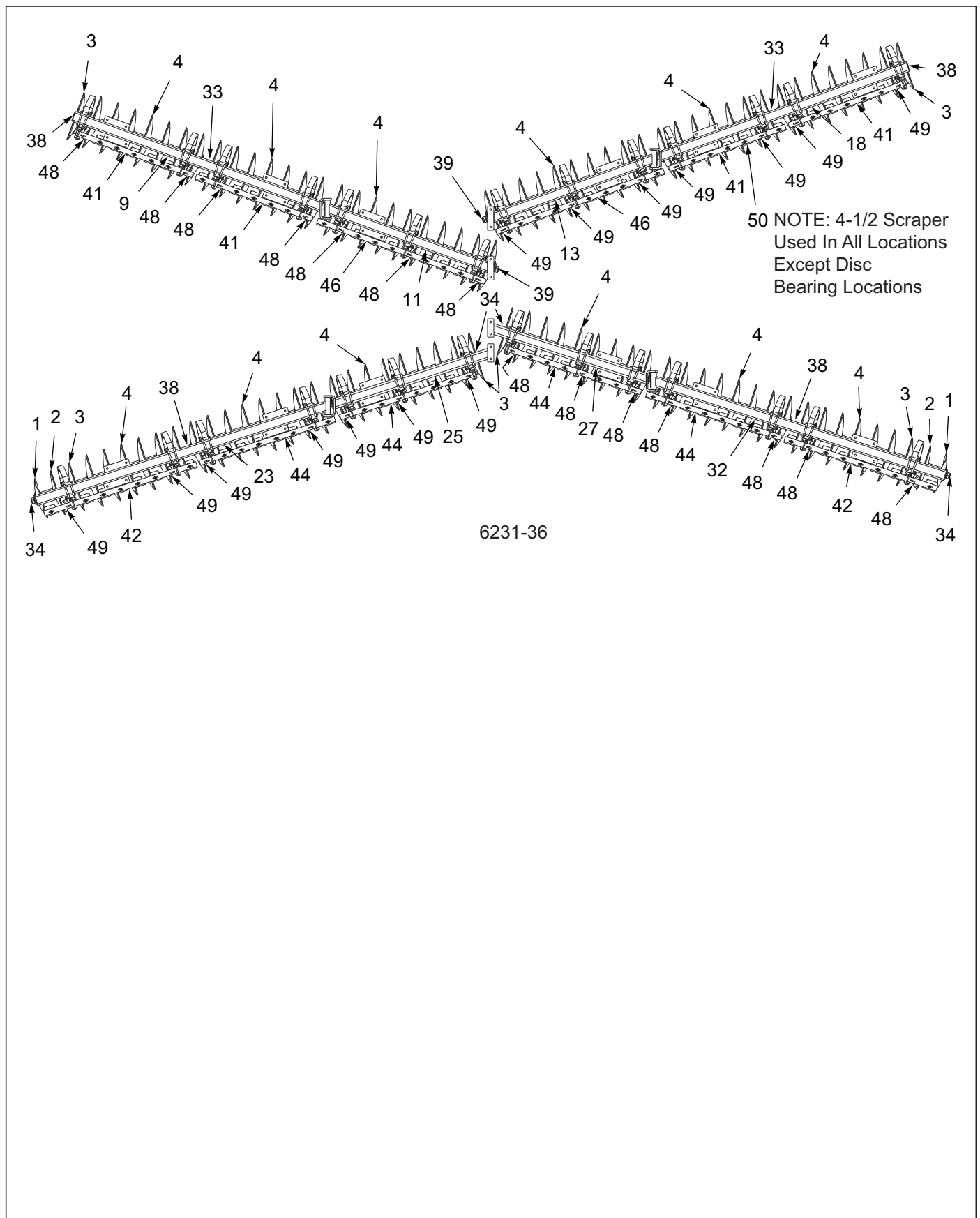


Figure 3-30: Disc Gang Assembly 6231 26" 8-3/4SP 4 GA (4 of 4)

Disc Gang Assembly 26" 8-3/4SP 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	198274	GANG ASSY, 26" 4GA 21	*						
--	198275	GANG ASSY, 26" 4GA 23		*					
--	198276	GANG ASSY, 26" 4GA 26			*				
--	198277	GANG ASSY, 26" 4GA 29				*			
--	198278	GANG ASSY, 26" 4GA 30					*		
--	198279	GANG ASSY, 26" 4GA 33						*	
--	198280	GANG ASSY, 26" 4GA 36							*
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	155617	DISC BLADE, 22"X1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	6	6	6	6	6	6	6
4	169575	DISC BLADE 26"X1/4" 1-3/4" ID	48	56	64	72	76	84	92
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	141163	SHAFT, GANG 59 L	4	2	2	6	--	4	2
34	141165	SHAFT, GANG 76-1/2 L	2	2	--	--	2	2	4
35	141184	SHAFT, GANG 50-1/2 L	2	2	2	2	--	2	--
36	141186	SHAFT, GANG 94 L	--	2	2	--	2	--	--
37	141187	SHAFT, GANG 111-1/2 L	--	--	2	--	2	--	--
38	141164	SHAFT, GANG 68 L	--	--	--	4	--	2	4
39	141166	SHAFT, GANG 85-1/2 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 26" 8-3/4SP 4 GA

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	195695	SCRAPER, DUAL LT 28X8-3/4	8	10	10	12	12	14	14
49	195694	SCRAPER, DUAL RT 28X8-3/4	8	10	10	12	12	14	14
50	191444	SCRAPER, 4-1/2 IN LC	38	42	50	54	58	62	70

Disc Gang Assembly 26" 8-3/4 SP HDS 4 GA (Heavy Duty Scraper)

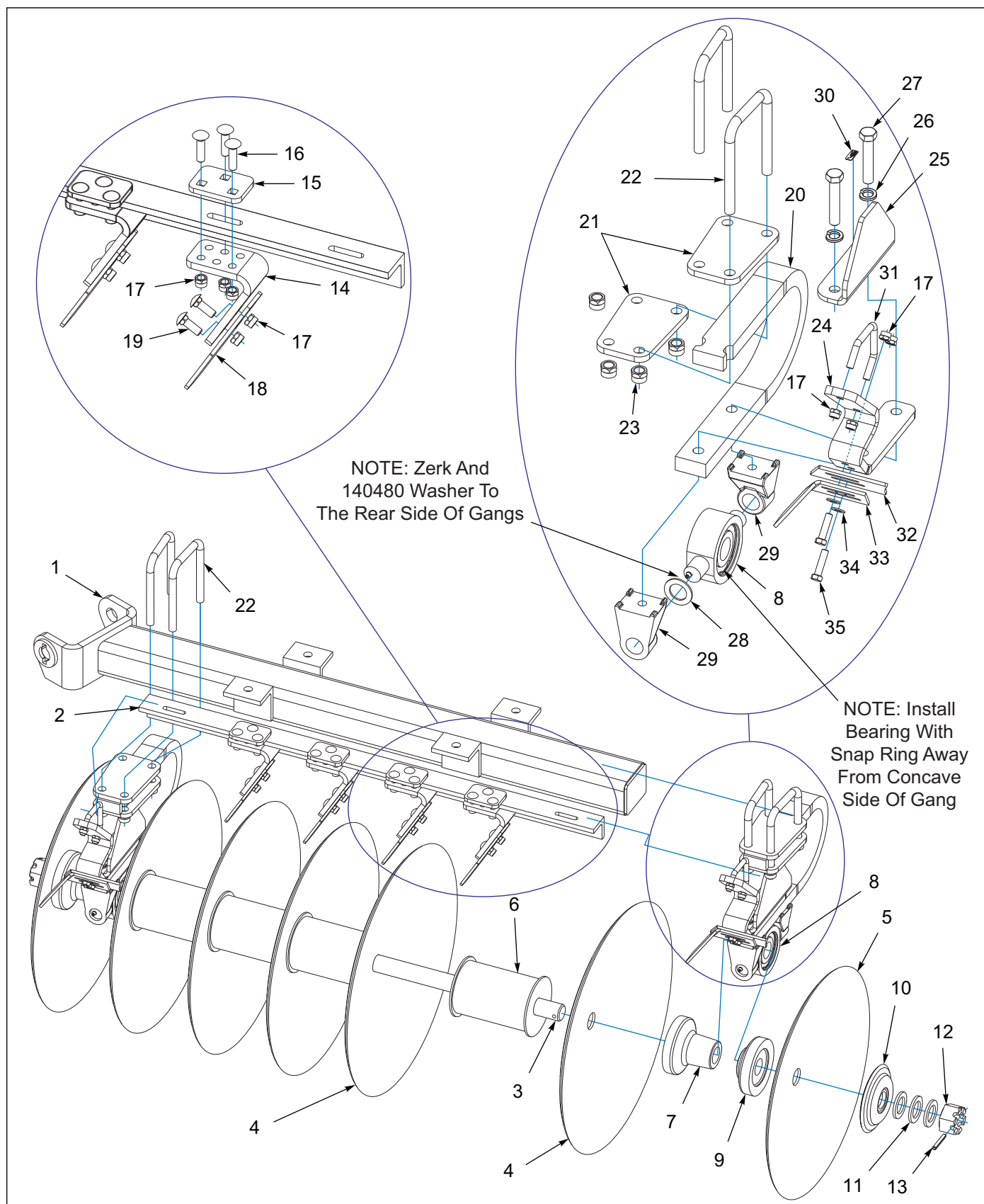


Figure 3-31: Disc Gang Assembly 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

Disc Gang Assembly 26" 8-3/4 SP HDS 4 GA (Heavy Duty Scraper)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	----	GANG BAR (SEE PAGES 3-51 THRU 3-55)	REF
2	----	SCRAPER BAR (SEE PAGES 3-51 THRU 3-55)	REF
3	----	GANG SHAFT (SEE PAGES 3-51 THRU 3-55)	REF
4	169575	DISC BLADE 26"X1/4" 1-3/4" ID	
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	
6	140496	SPOOL WLDMT, 8-3/4"	
7	140486	HALF SPOOL, CONVEX	
8	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
9	140485	HALF SPOOL, CONCAVE	
10	140469	END COLLAR	
11	141154	WASHER, GANG SHAFT	
12	23085	NUT, HEX SLOTTED 1-3/4 - 5	
13	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
14	161523	ARM, SCRAPER	
15	161524	CLAMP, SCRAPER	
16	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	
17	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	
18	211018	BLADE, SCRAPER	
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
20	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
20	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
21	140483	PLATE, DISC SHANK MOUNT	
22	140484	U-BOLT, 3/4 X 5	
23	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	
24	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
24	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
25	143988	STOP, DISC SHANK	
26	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	
27	114029	SCREW HX CAP 3/4-10X4 GR8	
28	140480	WASHER, TRUNNION	
29	140479	MOUNT, TRUNNION	
30	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
31	140487	UBOLT, SCRAPER BAR MOUNT	
32	174329	SCRAPER, DUAL ADJ BLACK	
33	211016	SCRAPER, DUAL ADJ RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
33	211017	SCRAPER, DUAL ADJ LEFT (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
35	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	

Disc Gang Assembly 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

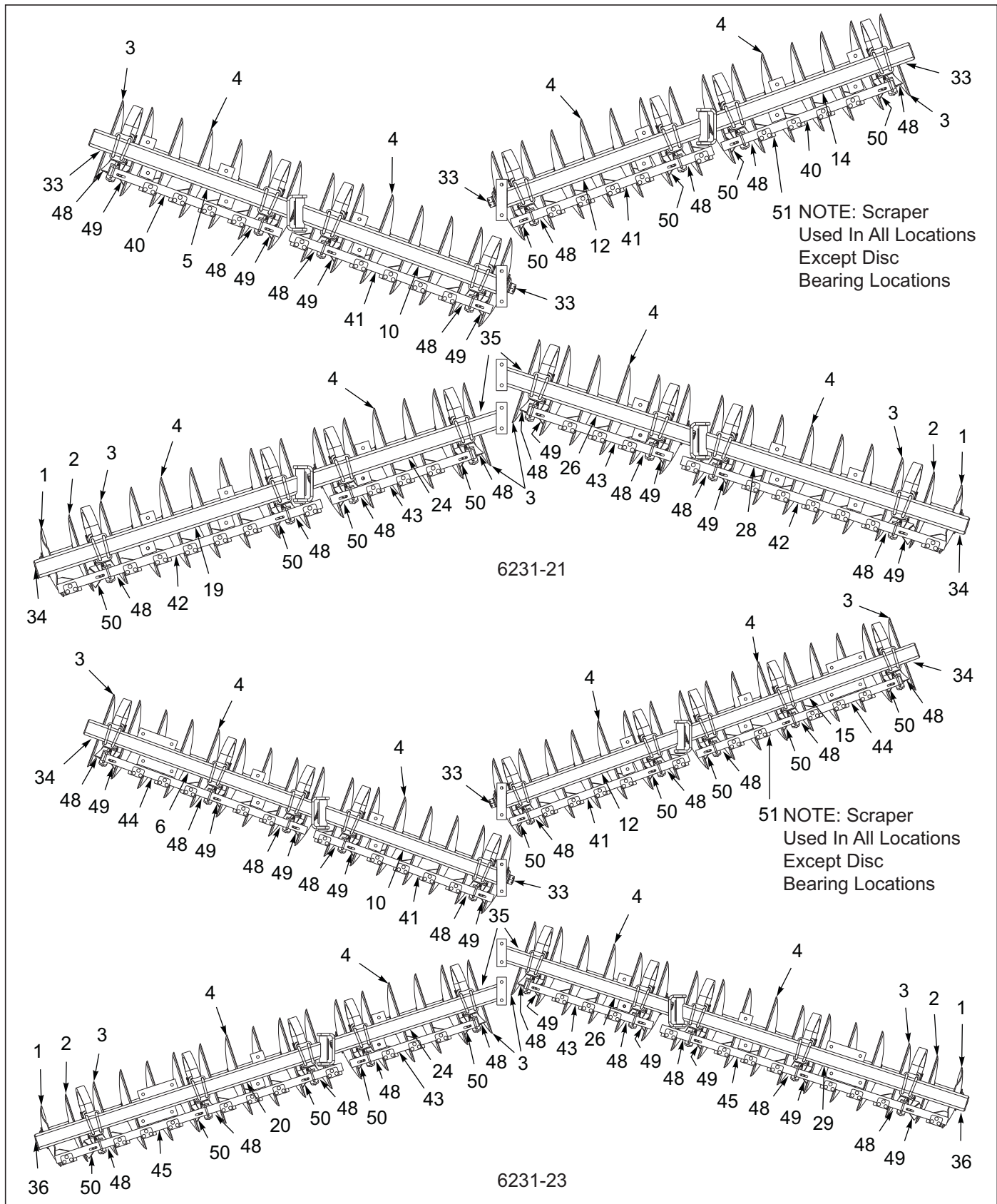


Figure 3-32: Disc Gang Assembly 6231 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (1 of 4)

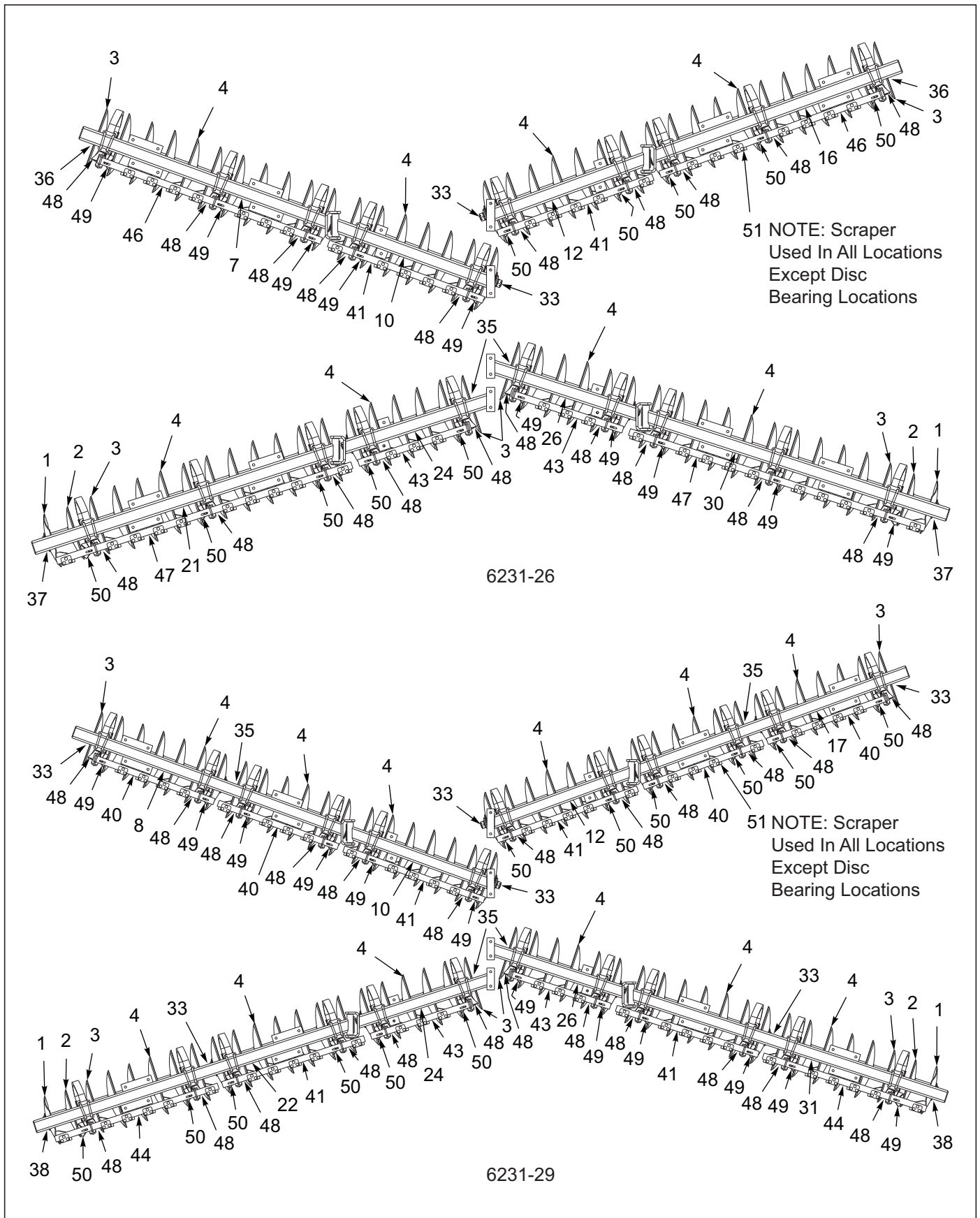


Figure 3-33: Disc Gang Assembly 6231 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (2 of 4)

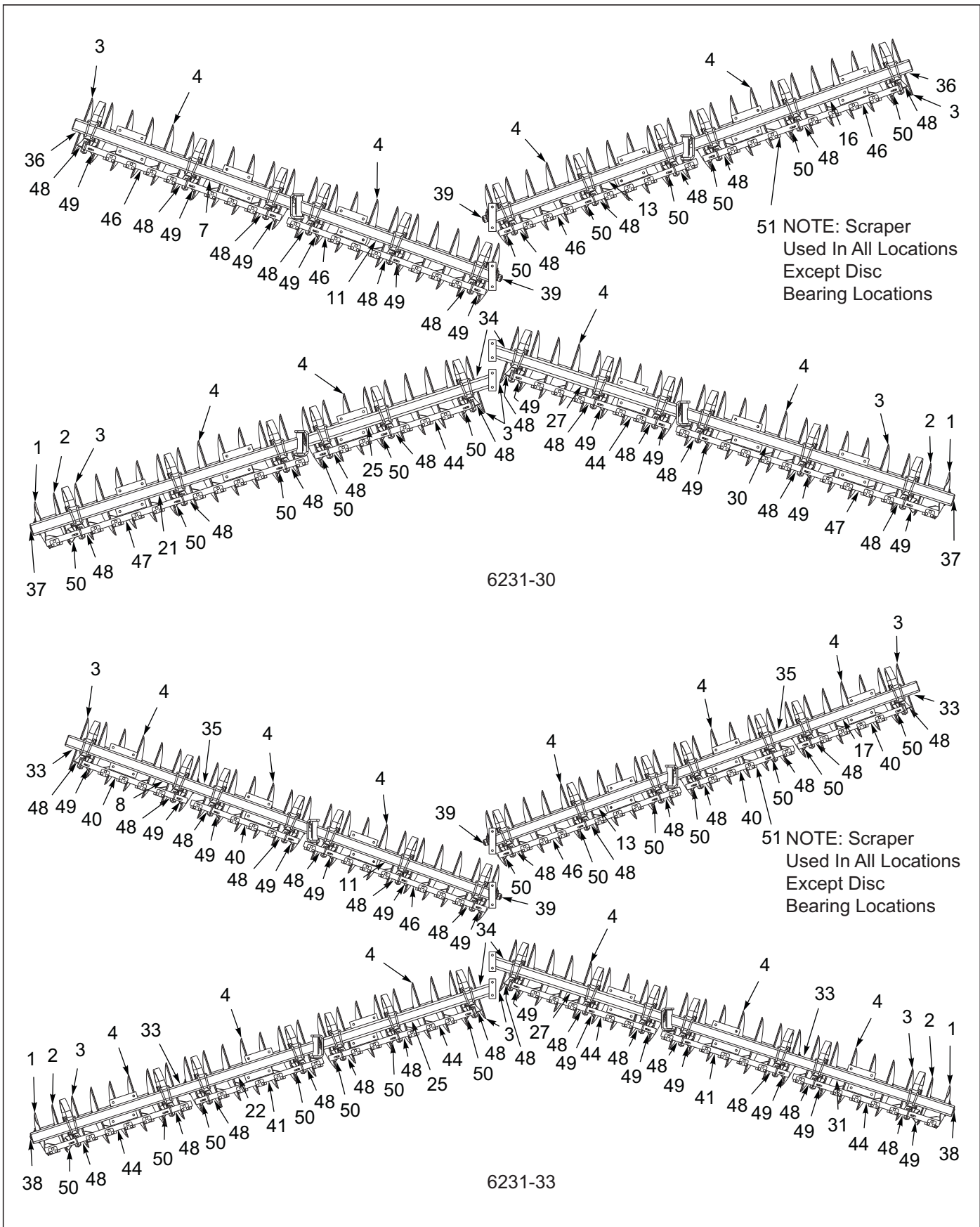


Figure 3-34: Disc Gang Assembly 6231 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (3 of 4)

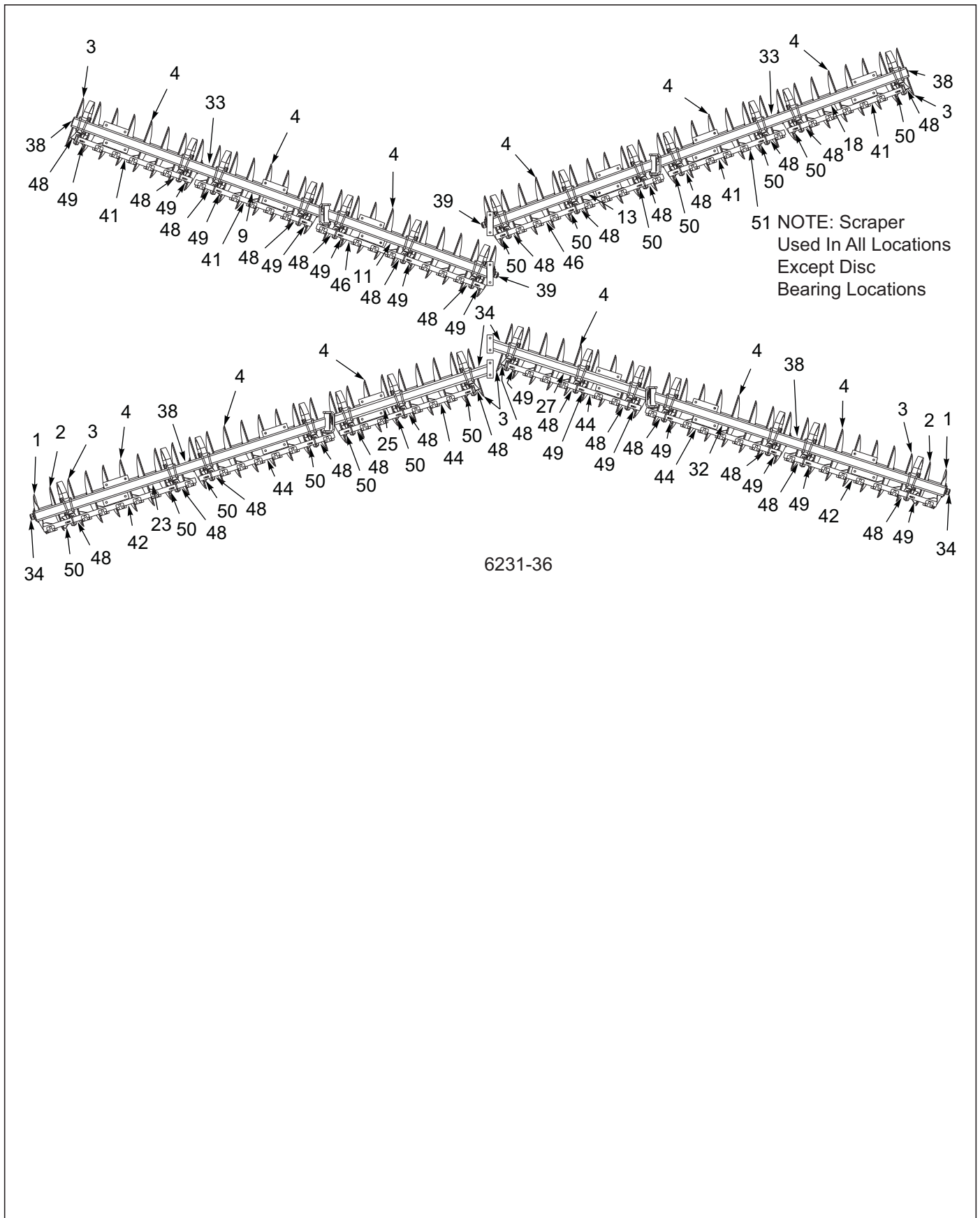


Figure 3-35: Disc Gang Assembly 6231 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper) (4 of 4)

Disc Gang Assembly 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	211005	GANG ASSY, 26" 4GA HDS 21	*						
--	211006	GANG ASSY, 26" 4GA HDS 23		*					
--	211007	GANG ASSY, 26" 4GA HDS 26			*				
--	211008	GANG ASSY, 26" 4GA HDS 29				*			
--	211009	GANG ASSY, 26" 4GA HDS 30					*		
--	211010	GANG ASSY, 26" 4GA HDS 33						*	
--	211011	GANG ASSY, 26" 4GA HDS 36							*
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	155617	DISC BLADE, 22"X1/4" 1-3/4 ID	2	2	2	2	2	2	2
3	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	6	6	6	6	6	6	6
4	169575	DISC BLADE 26"X1/4" 1-3/4" ID	48	56	64	72	76	84	92
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	141163	SHAFT, GANG 59 L	4	2	2	6	--	4	2
34	141165	SHAFT, GANG 76-1/2 L	2	2	--	--	2	2	4
35	141184	SHAFT, GANG 50-1/2 L	2	2	2	4	--	2	--
36	141186	SHAFT, GANG 94 L	--	2	2	--	2	--	--
37	141187	SHAFT, GANG 111-1/2 L	--	--	2	--	2	--	--
38	141164	SHAFT, GANG 68 L	--	--	2	--	--	2	4
39	141166	SHAFT, GANG 85-1/2 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 26" 8-3/4SP HDS 4 GA (Heavy Duty Scraper)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	174329	SCRAPER, DUAL ADJ BACK	16	20	20	24	24	28	28
49	211017	SCRAPER, DUAL ADJ LEFT	8	10	10	12	12	14	14
50	211016	SCRAPER, DUAL ADJ RIGHT	8	10	10	12	12	14	14
51	211018	BLADE, SCRAPER	38	42	50	54	58	62	70

Disc Gang Assembly 26" 8-3/4SP 5/16"

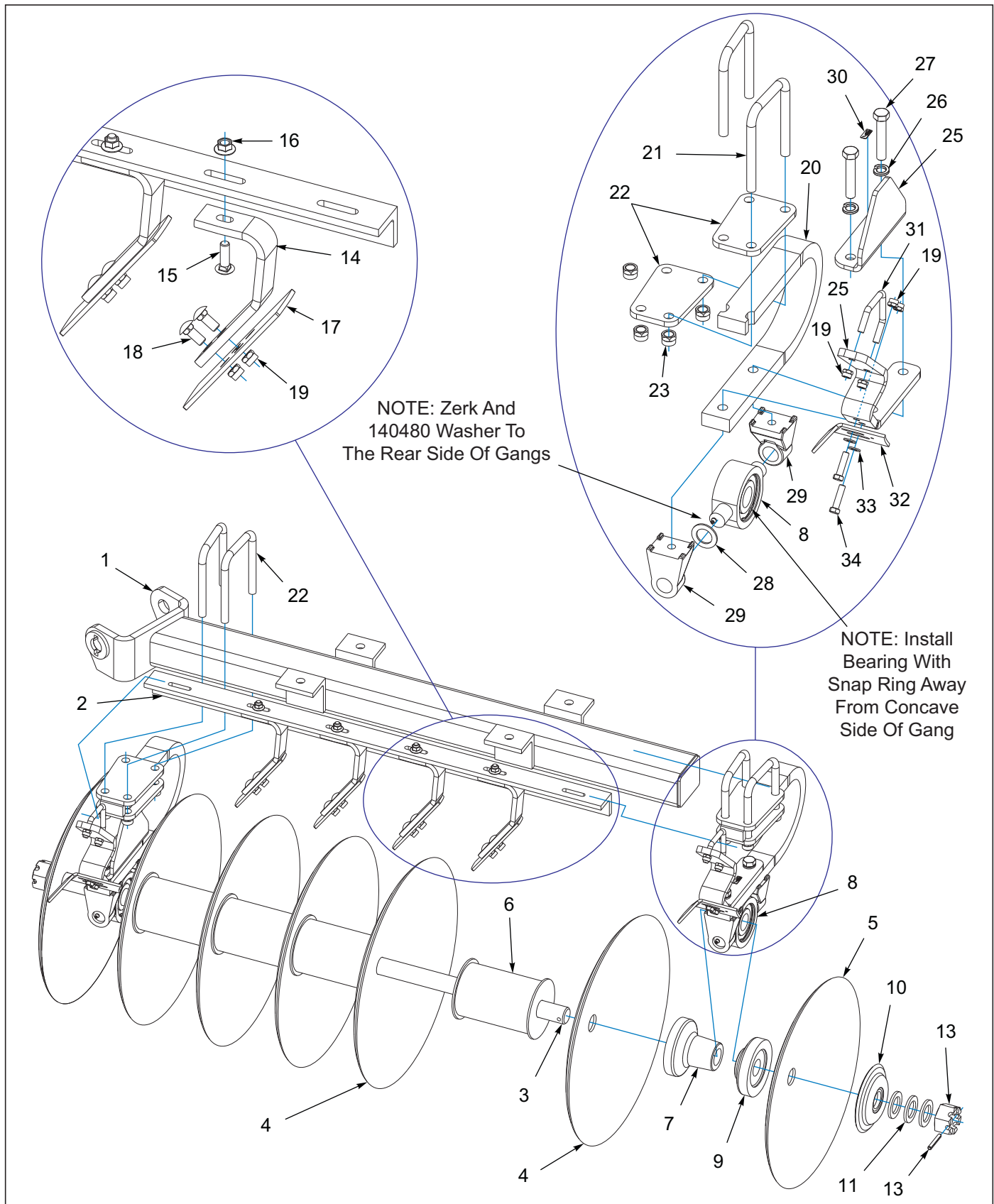


Figure 3-36: Disc Gang Assembly 26" 8-3/4SP 5/16"

Disc Gang Assembly 26" 8-3/4SP 5/16"

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-59 THRU 3-63)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-59 THRU 3-63)	REF
3	-----	GANG SHAFT (SEE PAGES 3-59 THRU 3-63)	REF
4	141871	DISC BLADE 26X5/16 1-3/4 ID	
5	140465	DISC BLADE,24" 1/4" 1-3/4" ID	
6	140466	DISC BLADE 22"X 1/4" 1-3/4"ID	
7	140496	SPOOL WLDMT, 8-3/4"	
8	140486	HALF SPOOL, CONVEX	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-83)	
10	140485	HALF SPOOL, CONCAVE	
11	140469	END COLLAR	
12	141154	WASHER, GANG SHAFT	
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
15	172724	ARM, SCRAPER	
16	160161	SHAKER BOLT1/2-13X1-3/4 GR8ZP	
17	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	
18	140488	SCRAPER 4-1/2 IN	
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
20	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	
21	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
21	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
22	140483	PLATE, DISC SHANK MOUNT	
23	140484	U-BOLT, 3/4 X 5	
24	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	
25	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
25	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
26	143988	STOP, DISC SHANK	
27	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	
28	114029	SCREW HX CAP 3/4-10X4 GR8	
29	140480	WASHER, TRUNNION	
30	140479	MOUNT, TRUNNION	
31	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
32	140487	UBOLT, SCRAPER BAR MOUNT	
33	140492	SCRAPER, DUAL RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
33	140493	SCRAPER, DUAL LEFT (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
35	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	

Disc Gang Assembly 26" 8-3/4SP 5/16"

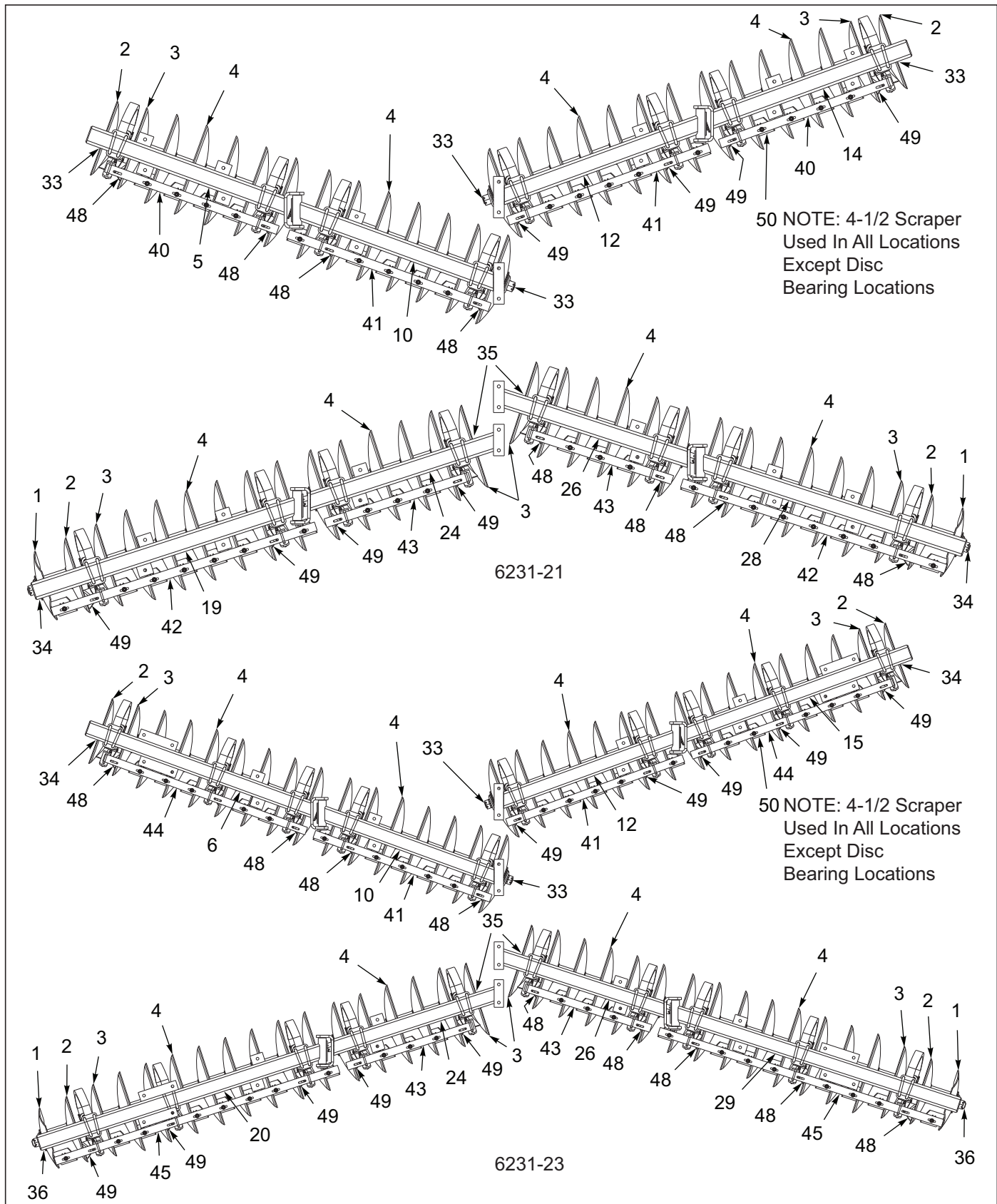


Figure 3-37: Disc Gang Assembly 6231 26" 8-3/4SP 5/16" (1 of 4)

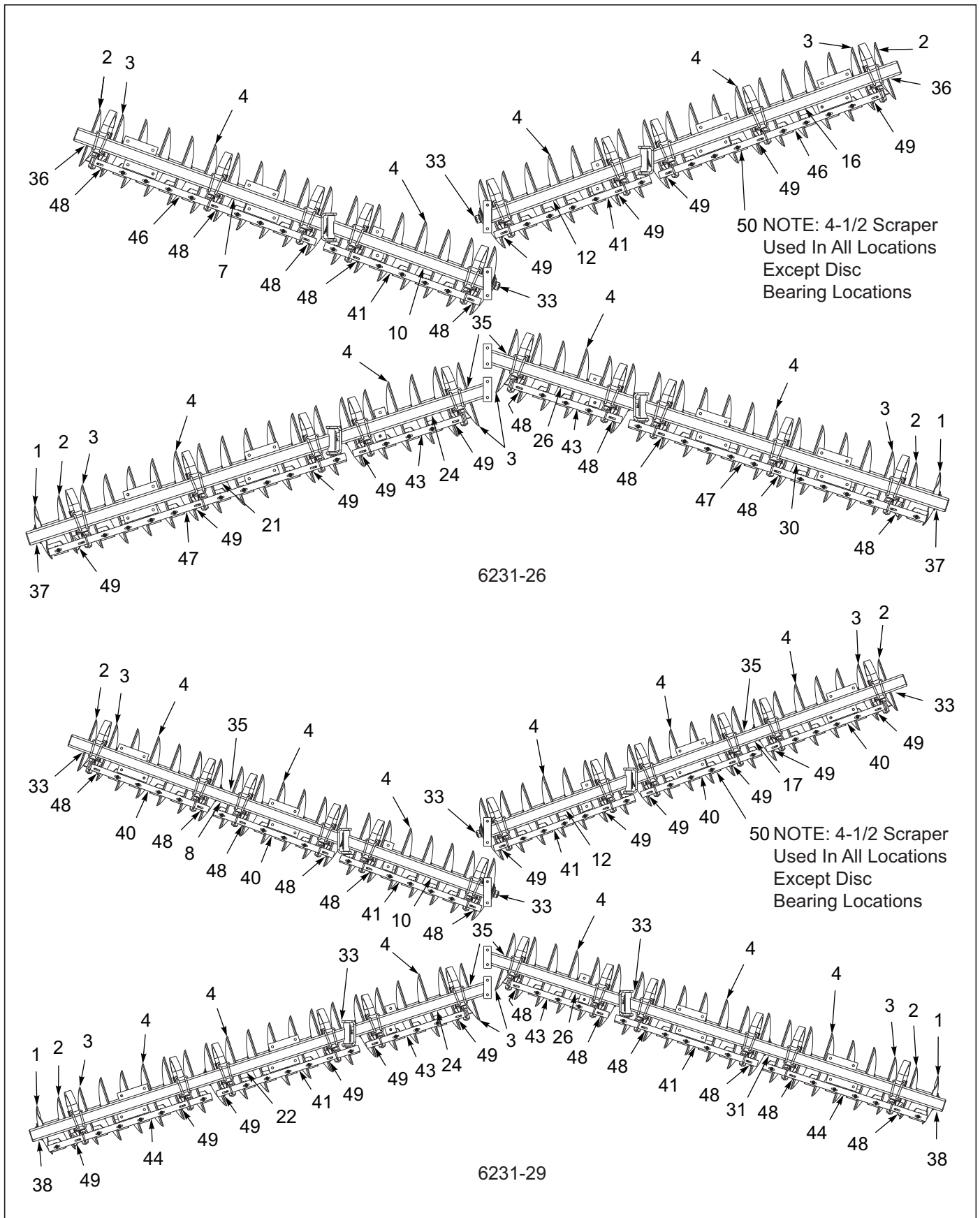


Figure 3-38: Disc Gang Assembly 6231 26" 8-3/4SP 5/16" (2 of 4)

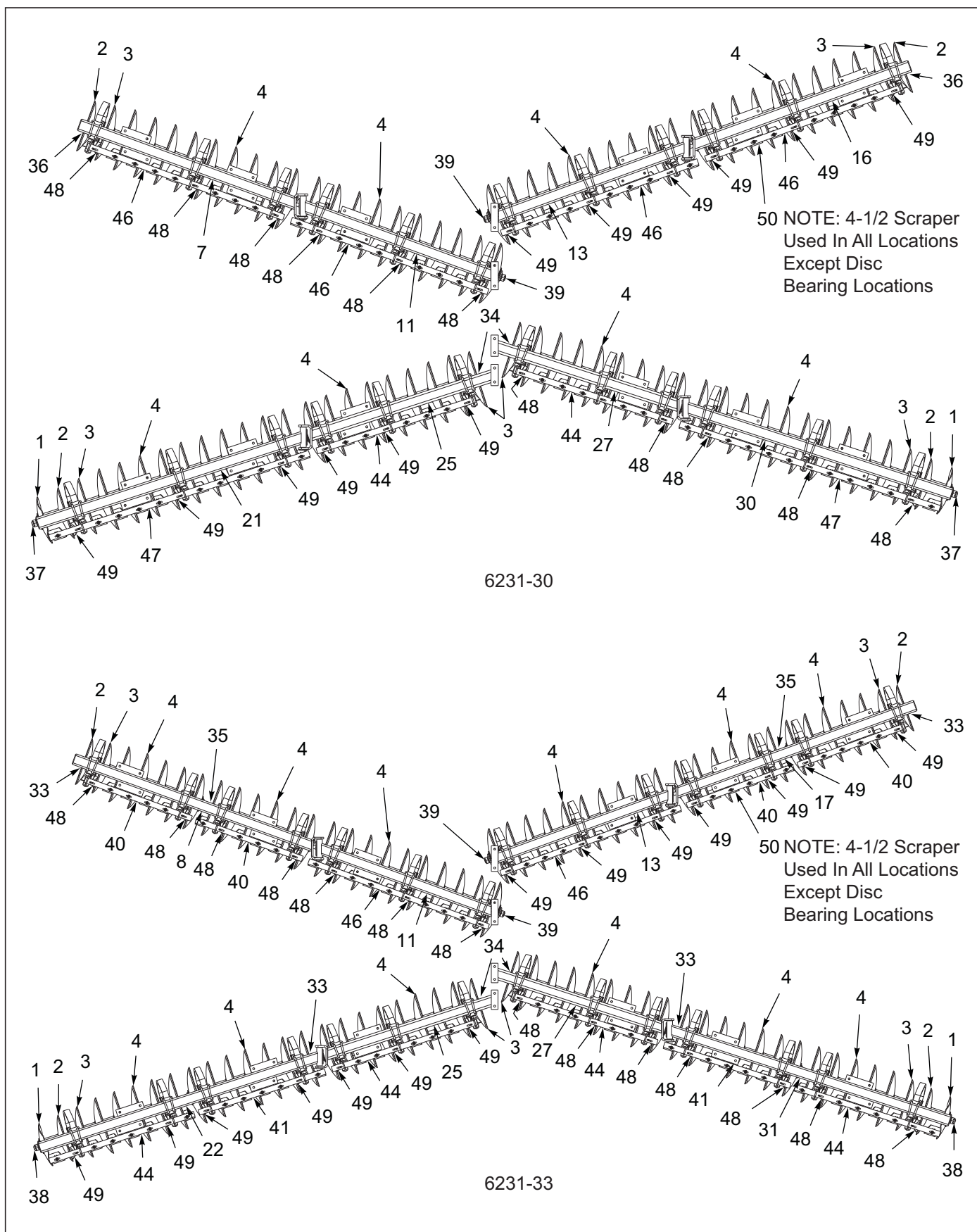


Figure 3-39: Disc Gang Assembly 6231 26" 8-3/4SP 5/16" (3 of 4)

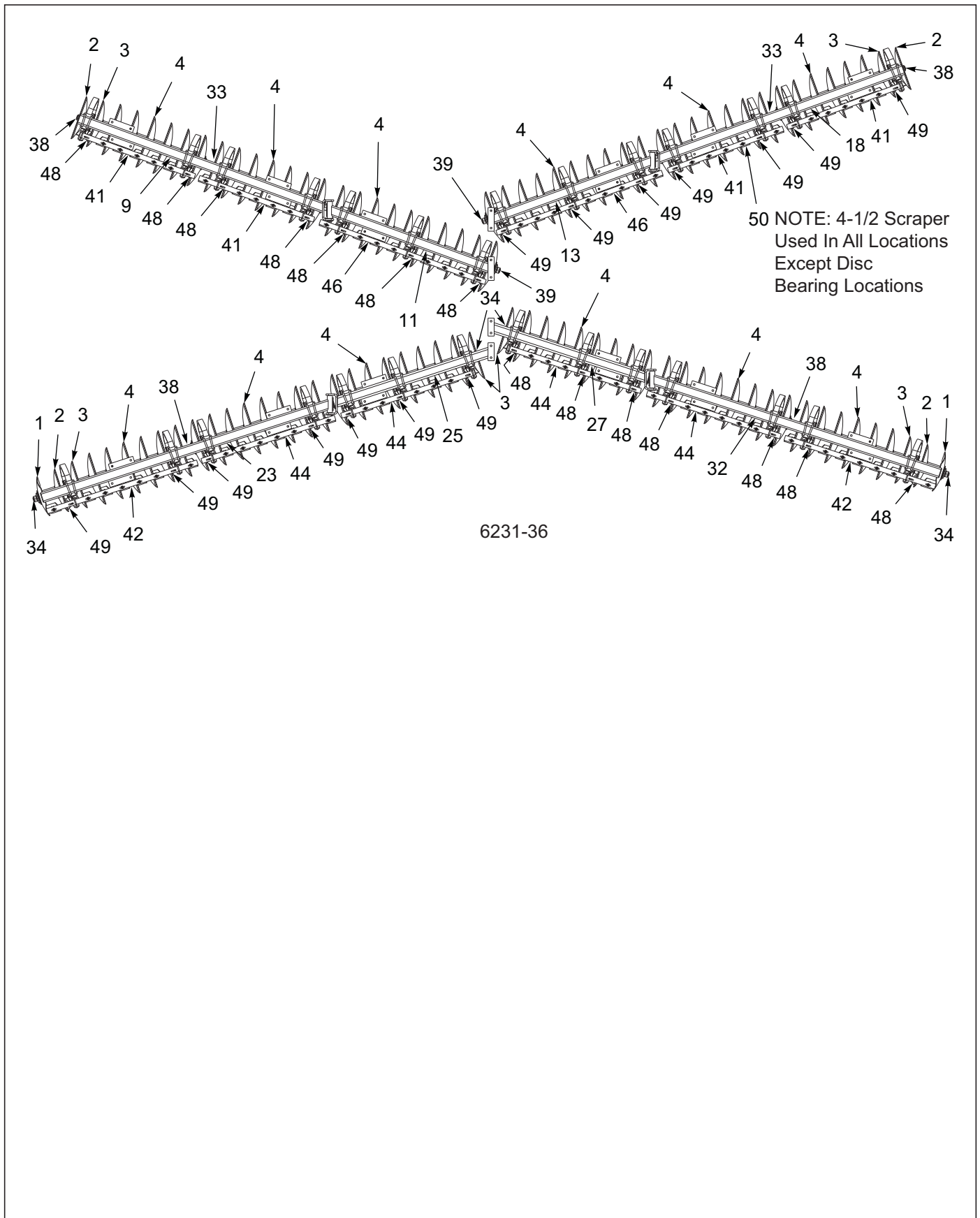


Figure 3-40: Disc Gang Assembly 6231 26" 8-3/4SP 5/16" (4 of 4)

Disc Gang Assembly 26" 8-3/4SP 5/16"

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	194609	GANG ASSY, 26" 5/16" 21	*						
--	194610	GANG ASSY, 26" 5/16" 23		*					
--	194611	GANG ASSY, 26" 5/16" 26			*				
--	194612	GANG ASSY, 26" 5/16" 29				*			
--	194613	GANG ASSY, 26" 5/16" 30					*		
--	194614	GANG ASSY, 26" 5/16" 33						*	
--	194615	GANG ASSY, 26" 5/16" 36							*
1	140468	DISC BLADE, 20" 1/4" 3-SIDED	2	2	2	2	2	2	2
2	140466	DISC BLADE 22"X 1/4" 1-3/4" ID	4	4	4	4	4	4	4
3	140465	DISC BLADE, 24" 1/4" 1-3/4" ID	6	6	6	6	6	6	6
4	141871	DISC BLADE 26X5/16 1-3/4 ID	46	54	62	70	74	82	90
5	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
6	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
7	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
8	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
9	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
10	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
11	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
12	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
13	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
14	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
15	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
16	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
17	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
18	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
19	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
20	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
21	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
22	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
23	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
24	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
25	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
26	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
27	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
28	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
29	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
30	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
31	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
32	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
33	142579	SHAFT, GANG 59-1/2 L	4	2	2	6	--	4	2
34	142581	SHAFT, GANG 77 L	2	2	--	--	2	2	4
35	142705	SHAFT, GANG 51 L	2	2	2	4	--	2	--
36	142703	SHAFT, GANG 95 L	--	2	2	--	2	--	--
37	142704	SHAFT, GANG 112-1/2 L	--	--	2	--	2	--	--
38	142580	SHAFT, GANG 68-1/2	--	--	--	2	--	2	4
39	142582	SHAFT, GANG 86 L	--	--	--	--	2	2	2
40	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
41	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
42	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2

Disc Gang Assembly 26" 8-3/4SP 5/16"

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
44	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
45	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
46	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
47	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
48	140493	SCRAPER, DUAL LEFT	8	10	10	12	12	14	14
49	140492	SCRAPER, DUAL RIGHT	8	10	10	12	12	14	14
50	140488	SCRAPER 4-1/2 IN	38	42	50	54	58	62	70

Disc Gang Assembly 28" 8-3/4 SP NF 5/16" (Notched Front)

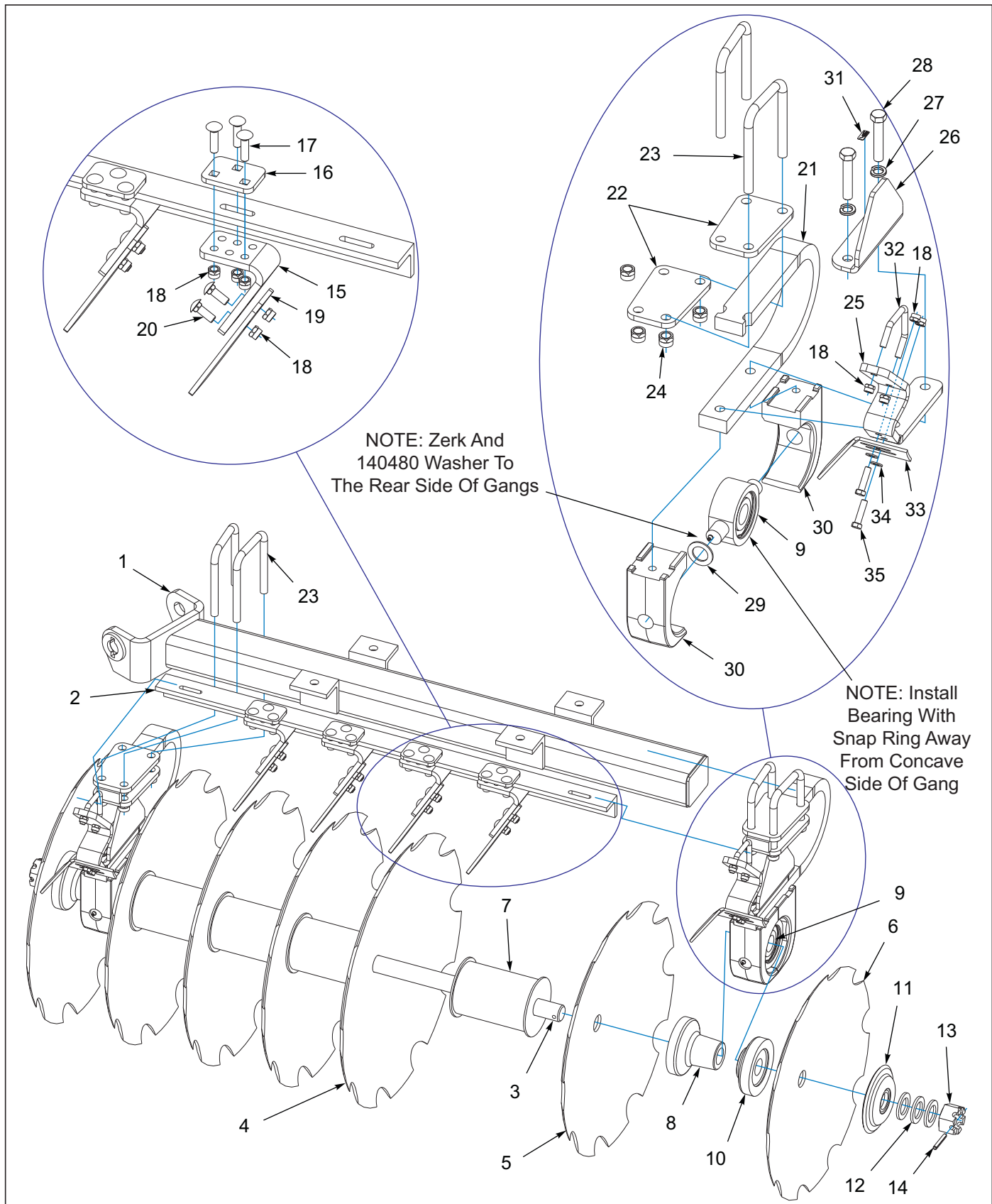


Figure 3-41: Disc Gang Assembly 28" 8-3/4SP NF 5/16" (Notched Front)

Disc Gang Assembly 28" 8-3/4 SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-67 THRU 3-71)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-67 THRU 3-71)	REF
3	-----	GANG SHAFT (SEE PAGES 3-67 THRU 3-71)	REF
4	195677	DISC BLADE, 28X5/16 NOTCHED	
5	195691	DISC BLADE, 26X5/16 NOTCHED	
6	195690	DISC BLADE, 24X5/16 NOTCHED	
7	140496	SPOOL WLDMT, 8-3/4"	
8	140486	HALF SPOOL, CONVEX	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGES 3-75 & 3-83)	
10	140485	HALF SPOOL, CONCAVE	
11	140469	END COLLAR	
12	141154	WASHER, GANG SHAFT	
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
15	161523	ARM, SCRAPER	
16	161524	CLAMP, SCRAPER	
17	1-654-010070-05	SCREW, RDHD SQNCK 1/2-13X2 GR5	
18	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
19	195685	BLADE, SCRAPER HD 28"	
20	1-654-010070-03	SCREW RDHD SQNK 1/2-13X1-1/2	
21	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
21	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
22	140483	PLATE, DISC SHANK MOUNT	
23	140484	U-BOLT, 3/4 X 5	
24	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
25	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
25	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
26	143988	STOP, DISC SHANK	
27	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
28	114029	SCREW HX CAP 3/4-10X4 GR8	
29	140480	WASHER, TRUNNION	
30	238476	MOUNT, TRUNNION GUARD (SEE PAGE 3-84)	
31	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
32	140487	UBOLT, SCRAPER BAR MOUNT	
33	195694	SCRAPER, DUAL RT 28X8-3/4 (USED RIGHT FRONT AND LEFT REAR GANGS)	
33	195695	SCRAPER, DUAL LT 28X8-3/4 (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
35	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
36	140464	BEARING, DISC 1.775ID	
37	140473	WASHER, BEARING	
38	140475	CASTING, TRUNNION	
39	140476	INTERNAL RETAINING RING	
40	5000	ZERK FITTING 1/8NPT	

Disc Gang Assembly 28" 8-3/4SP NF 5/16" (Notched Front)

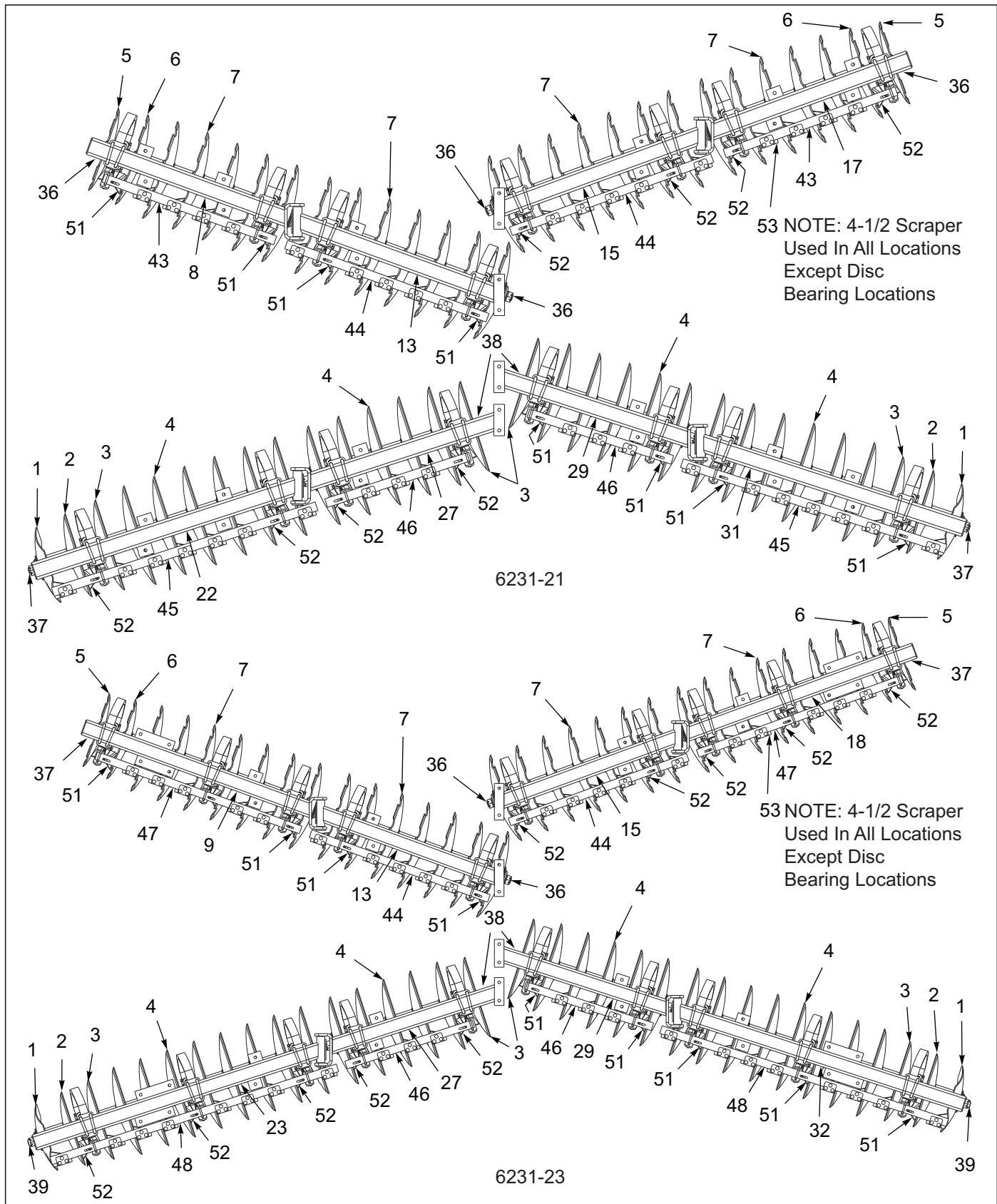


Figure 3-42: Disc Gang Assembly 6231 28" 8-3/4SP NF 5/16"(Notched Front) (1 of 4)

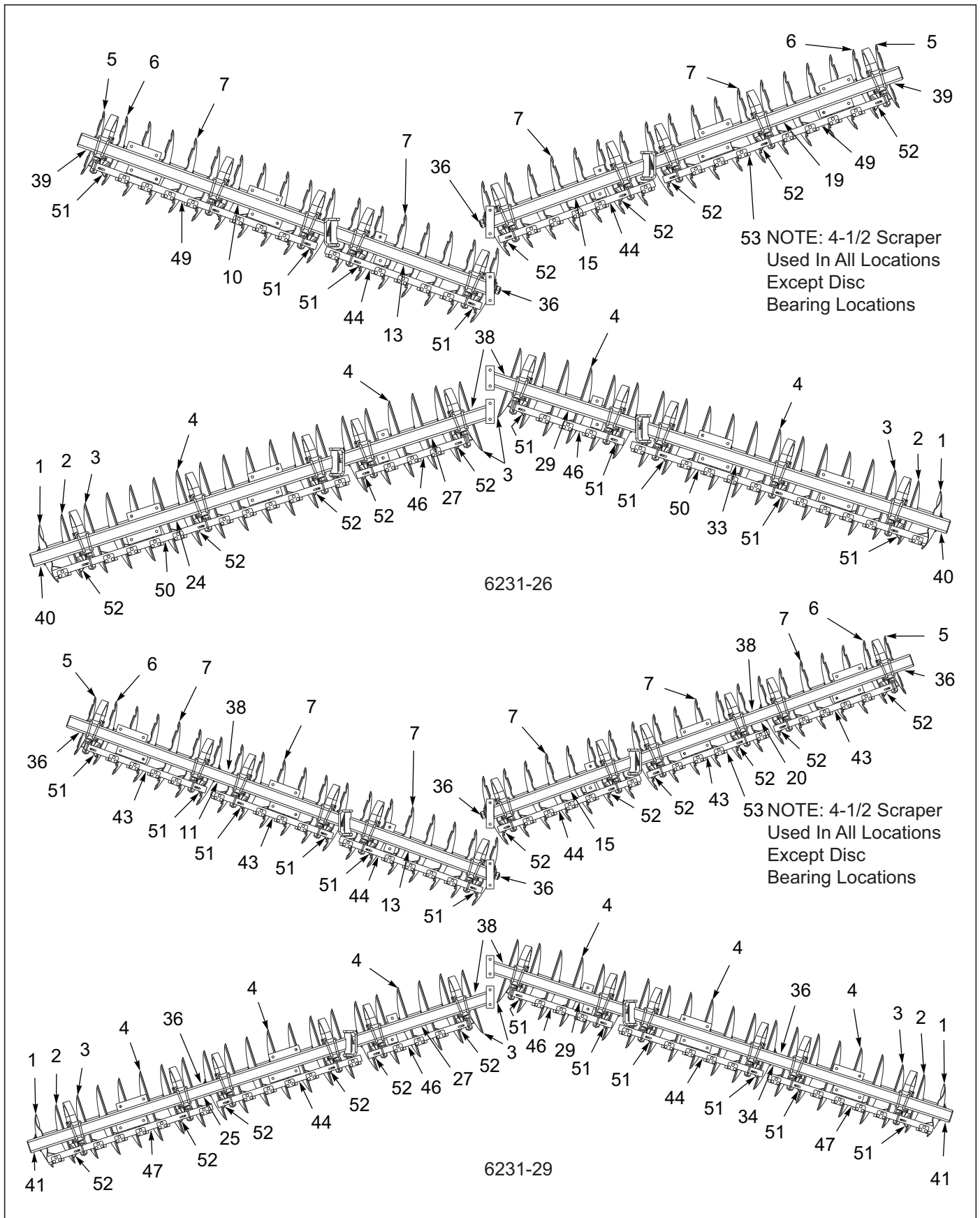


Figure 3-43: Disc Gang Assembly 6231 28" 8-3/4SP NF 5/16" (Notched Front) (2 of 4)

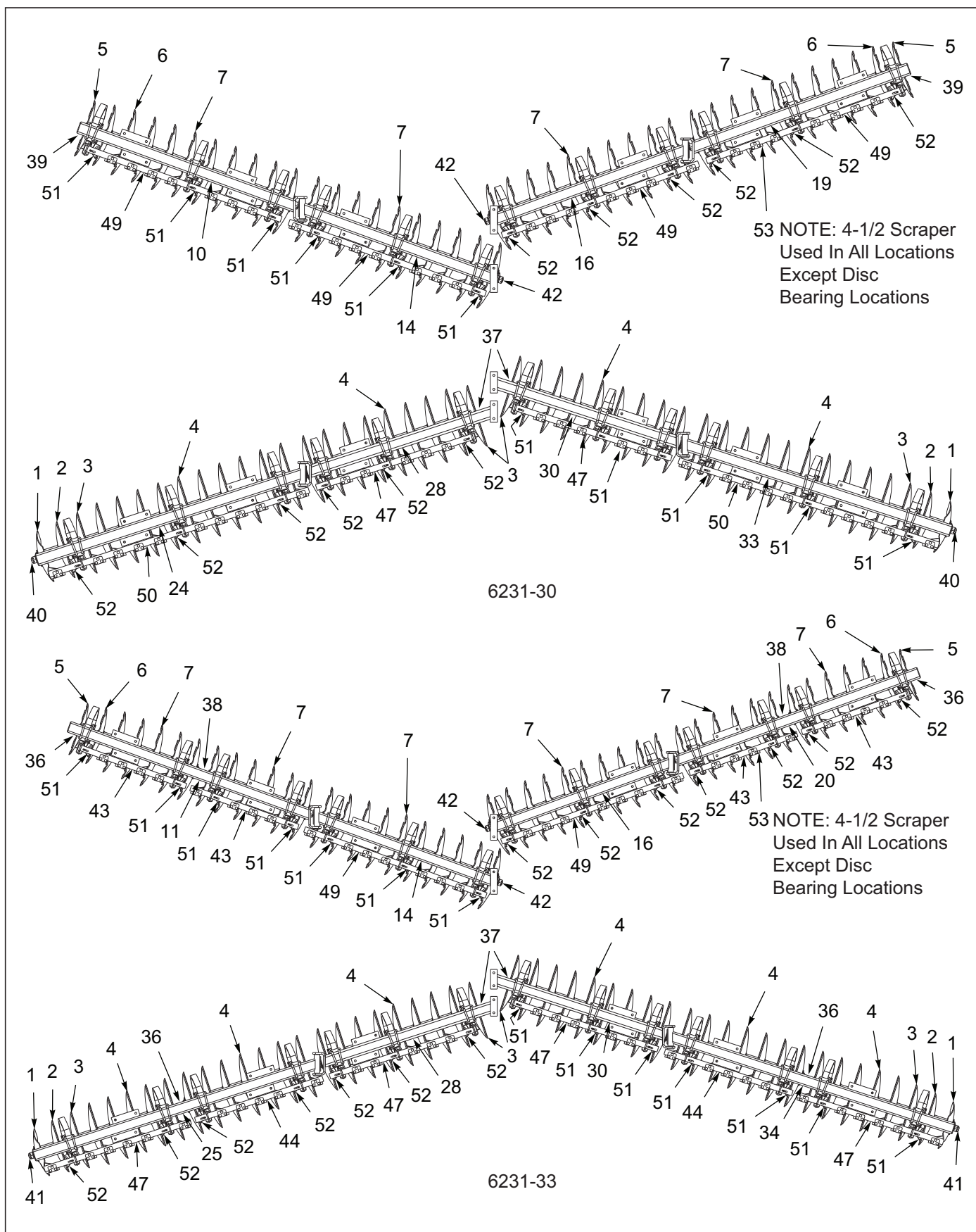


Figure 3-44: Disc Gang Assembly 6231 28' 8-3/4SP NF 5/16' (Notched Front) (3 of 4)

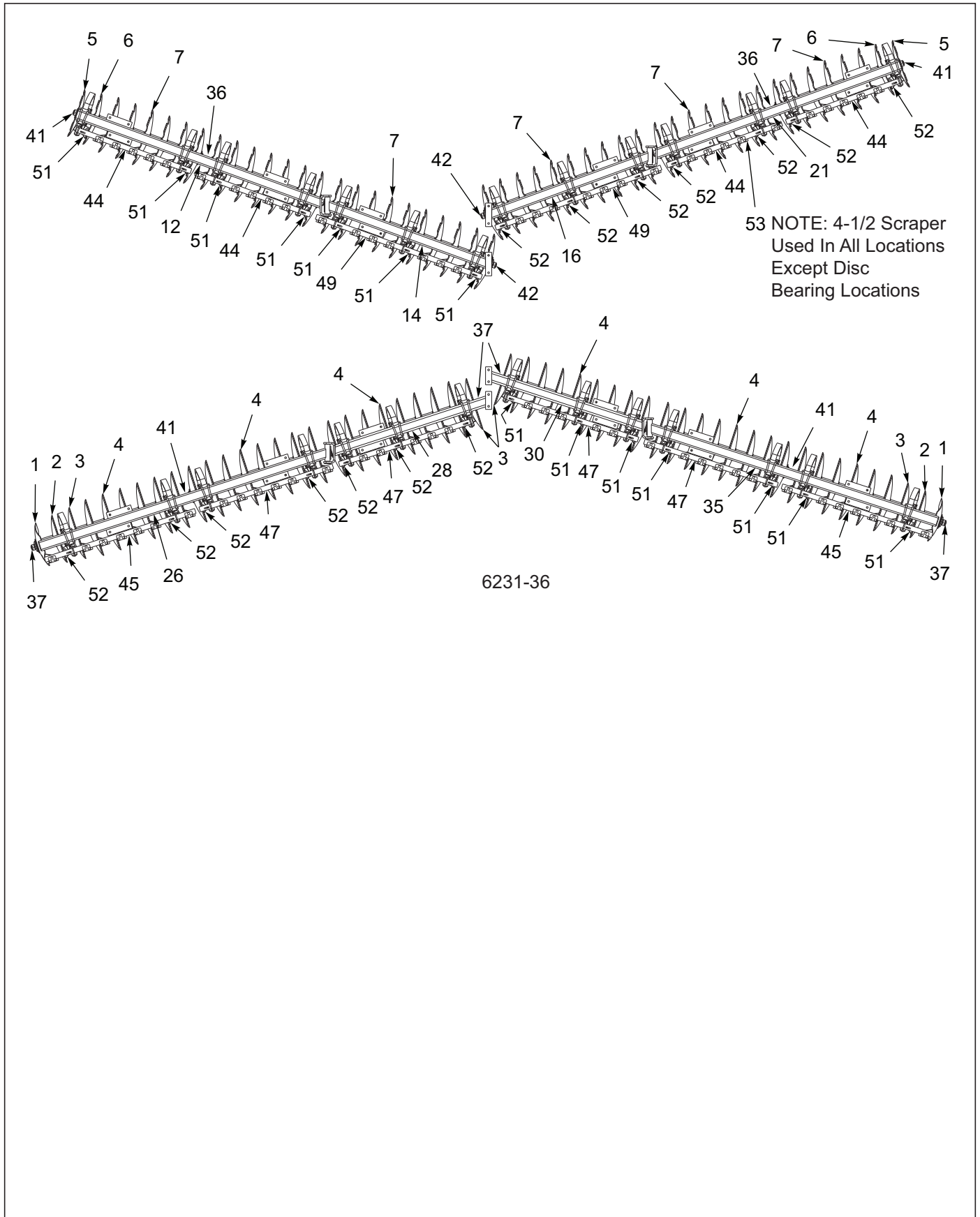


Figure 3-45: Disc Gang Assembly 6231 28" 8-3/4SP NF 5/16" (Notched Front) (4 of 4)

Disc Gang Assembly 28" 8-3/4SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	195678	GANG ASSY, 28X5/16 8-3/4 NF 21	*						
--	195679	GANG ASSY, 28X5/16 8-3/4 NF 23		*					
--	195680	GANG ASSY, 28X5/16 8-3/4 NF 26			*				
--	195681	GANG ASSY, 28X5/16 8-3/4 NF 29				*			
--	195682	GANG ASSY, 28X5/16 8-3/4 NF 30					*		
--	195683	GANG ASSY, 28X5/16 8-3/4 NF 33						*	
--	195684	GANG ASSY, 28X5/16 8-3/4 NF 36							*
1	195693	DISC BLADE, 22" X 1/4" 3-SIDED	2	2	2	2	2	2	2
2	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	2	2	2	2	2	2	2
3	169575	DISC BLADE 26"X1/4" 1-3/4" ID	4	4	4	4	4	4	4
4	195676	DISC BLADE, 28X5/16 1-3/4 ID	22	26	30	34	36	40	44
5	195690	DISC BLADE, 24X5/16 NOTCHED	2	2	2	2	2	2	2
6	195691	DISC BLADE, 26X5/16 NOTCHED	2	2	2	2	2	2	2
7	195677	DISC BLADE, 28X5/16 NOTCHED	24	28	32	36	38	42	46
8	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
9	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
10	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
11	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
12	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
13	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
14	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
15	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
16	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
17	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
18	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
19	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
20	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
21	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
22	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
23	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
24	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
25	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
26	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
27	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
28	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
29	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
30	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
31	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
32	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
33	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
34	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
35	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
36	142579	SHAFT, GANG 59-1/2 L	4	2	2	6	--	4	2
37	142581	SHAFT, GANG 77 L	2	2	--	--	2	2	4
38	142705	SHAFT, GANG 51 L	2	2	2	4	--	2	--
39	142703	SHAFT, GANG 95 L	--	2	2	--	2	--	--
40	142704	SHAFT, GANG 112-1/2 L	--	--	2	--	2	--	--
41	142580	SHAFT, GANG 68-1/2	--	--	--	2	--	2	4
42	142582	SHAFT, GANG 86 L	--	--	--	--	2	2	2

Disc Gang Assembly 28" 8-3/4SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
43	141167	SCRAPER BAR 8-3/4 SP 6 HOLE	2	--	--	4	--	4	--
44	141168	SCRAPER BAR 8-3/4 SP 7 HOLE	2	2	2	4	--	2	4
45	141170	SCRAPER BAR 8-3/4 SP 9 HOLE	2	--	--	--	--	--	2
46	141188	SCRAPER BAR 8-3/4 SP 5 HOLE	2	2	2	2	--	--	--
47	141169	SCRAPER BAR 8-3/4 SP 8 HOLE	--	2	--	2	2	4	4
48	141172	SCRAPER BAR 8-3/4 SP 11 HOLE	--	2	--	--	--	--	--
49	141171	SCRAPER BAR 8-3/4 SP 10 HOLE	--	--	2	--	4	2	2
50	141173	SCRAPER BAR 8-3/4 SP 13 HOLE	--	--	2	--	2	--	--
51	195695	SCRAPER, DUAL LT 28X8-3/4	8	10	10	12	12	14	14
52	195694	SCRAPER, DUAL RT 28X8-3/4	8	10	10	12	12	14	14
53	195685	BLADE, SCRAPER HD 28"	38	42	50	54	58	62	70

Disc Gang Assembly 28" 10-1/2 SP NF 5/16" (Notched Front)

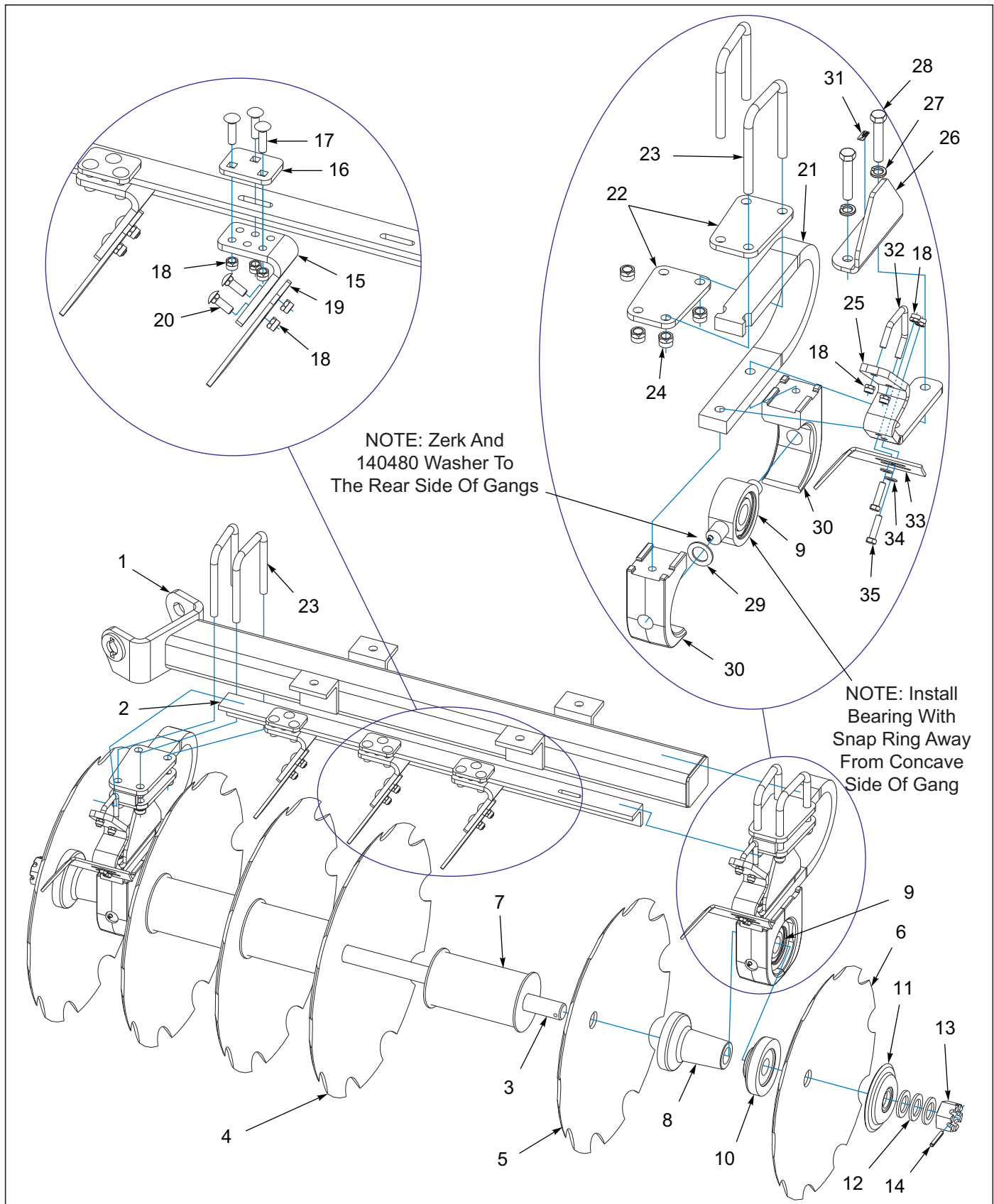


Figure 3-46: Disc Gang Assembly 28" 10-1/2SP NF 5/16" (Notched Front)

Disc Gang Assembly 28" 10-1/2 SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (SEE PAGES 3-77 THRU 3-81)	REF
2	-----	SCRAPER BAR (SEE PAGES 3-77 THRU 3-81)	REF
3	-----	GANG SHAFT (SEE PAGES 3-77 THRU 3-81)	REF
4	195677	DISC BLADE, 28X5/16 NOTCHED	
5	195691	DISC BLADE, 26X5/16 NOTCHED	
6	195690	DISC BLADE, 24X5/16 NOTCHED	
7	148364	SPOOL WLDMT 10-1/2"	
8	148363	HALF SPOOL CONVEX	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGES 3-75 & 3-83)	
10	140485	HALF SPOOL, CONCAVE	
11	140469	END COLLAR	
12	141154	WASHER, GANG SHAFT	
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	
15	161523	ARM, SCRAPER	
16	161524	CLAMP, SCRAPER	
17	1-654-010070-05	SCREW, RDHD SQNCK 1/2-13X2 GR5	
18	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	
19	195685	BLADE, SCRAPER HD 28"	
20	1-654-010070-03	SCREW RDHD SQNK 1/2-13X1-1/2	
21	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
21	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
22	140483	PLATE, DISC SHANK MOUNT	
23	140484	U-BOLT, 3/4 X 5	
24	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	
25	140490	MOUNT, SCRAPER BAR RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
25	140491	MOUNT, SCRAPER BAR LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
26	143988	STOP, DISC SHANK	
27	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	
28	114029	SCREW HX CAP 3/4-10X4 GR8	
29	140480	WASHER, TRUNNION	
30	238476	MOUNT, TRUNNION GUARD (SEE PAGE 3-84)	
31	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
32	140487	UBOLT, SCRAPER BAR MOUNT	
33	197736	SCRAPER, DUAL RT 28X10-1/2 (USED RIGHT FRONT AND LEFT REAR GANGS)	
33	197737	SCRAPER, DUAL LT 28X10-1/2 (NOT SHOWN) (USED LEFT FRONT AND RIGHT REAR GANGS)	
34	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
35	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	
36	140464	BEARING, DISC 1.775ID	
37	140473	WASHER, BEARING	
38	140475	CASTING, TRUNNION	
39	140476	INTERNAL RETAINING RING	
40	5000	ZERK FITTING 1/8NPT	

Shank & Bearing Assembly 28" NF Before 12-01-2022

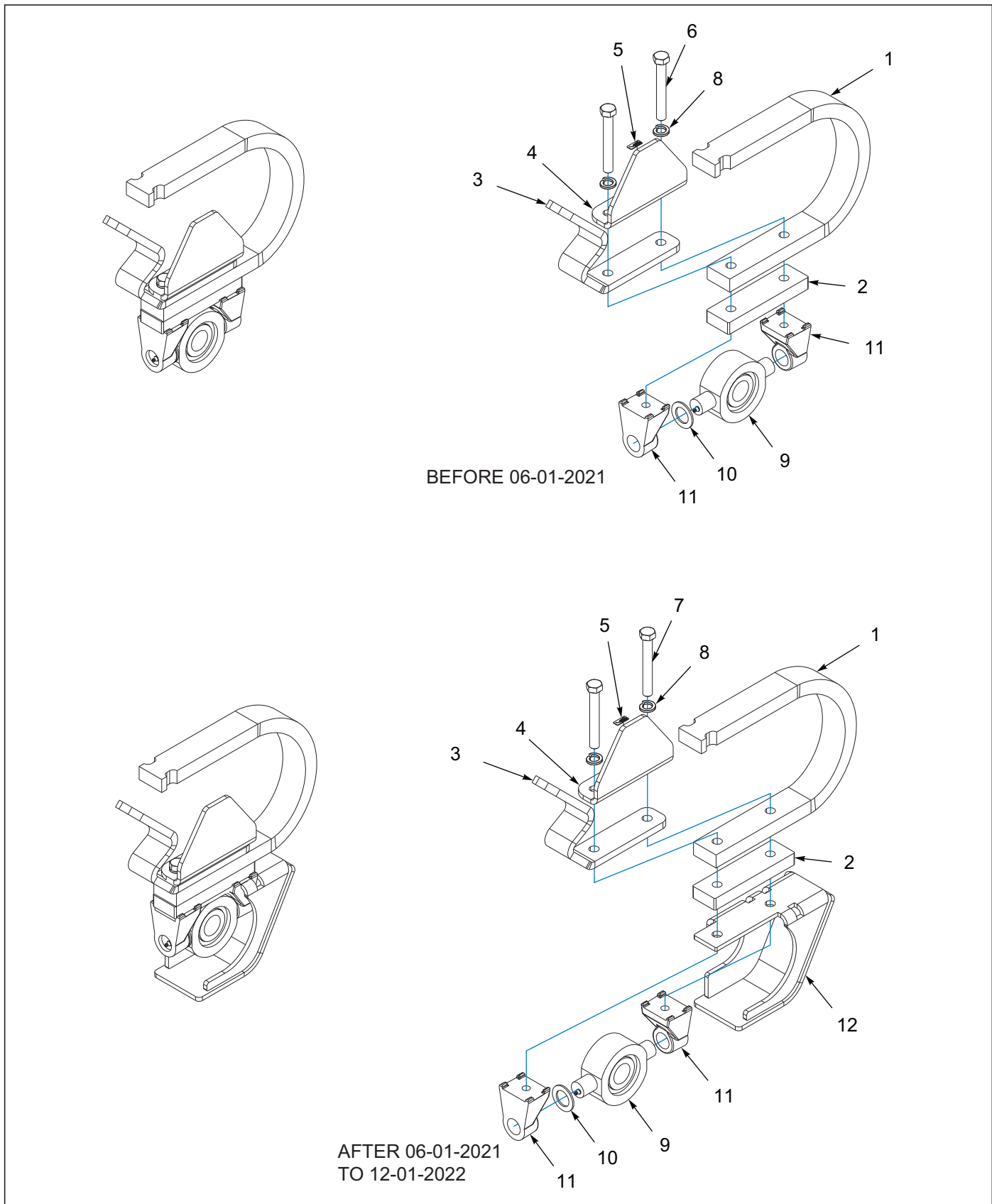


Figure 3-47: Shank & Bearing Assembly 28" NF Before 12-01-2022

Shank & Bearing Assembly 28” NF Before 12-01-2022

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140481	SHANK, DISC BEARING, RIGHT (USED RIGHT FRONT AND LEFT REAR GANGS)	
1	140482	SHANK, DISC BEARING, LEFT (USED LEFT FRONT AND RIGHT REAR GANGS) (NOT SHOWN)	
2	195692	SPACER, DISC GANG	
3	140490	MOUNT, SCRAPER BAR RIGHT	
4	143988	STOP, DISC SHANK	
5	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
6	172883	SCREW HX CP,3/4-10X5 GR8 ZP	
7	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	
8	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	
9	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 3-77)	
10	140480	WASHER, TRUNNION	
11	140479	MOUNT, TRUNNION	
12	187343	WLDMT, RH BEARING GUARD	
12	187348	WLDMT, LH BEARING GUARD	

Disc Gang Assembly 28" 10-1/2SP NF 5/16" (Notched Front)

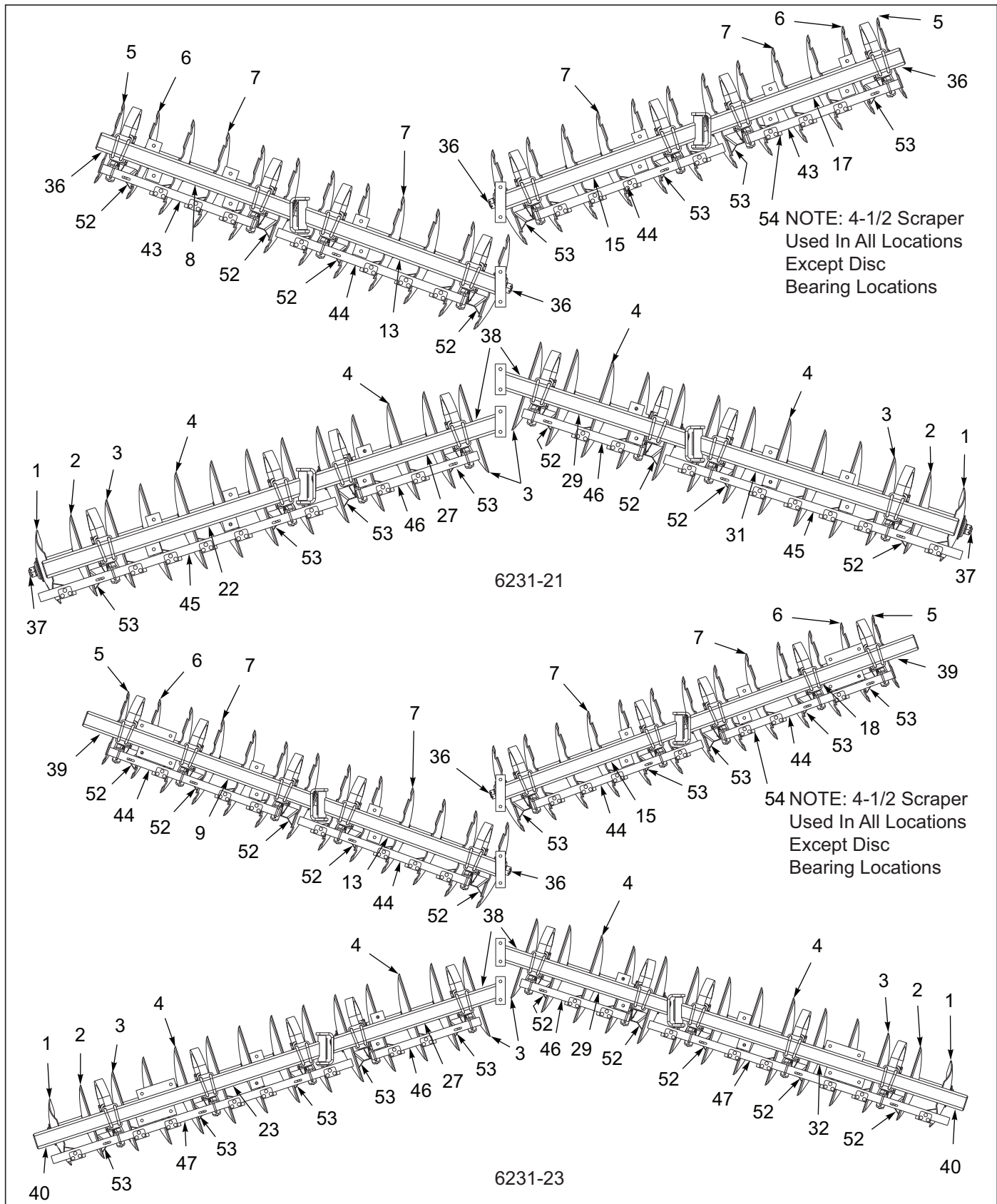


Figure 3-48: Disc Gang Assembly 6231 28" 10-1/2SP NF 5/16" (Notched Front)(1 of 4)

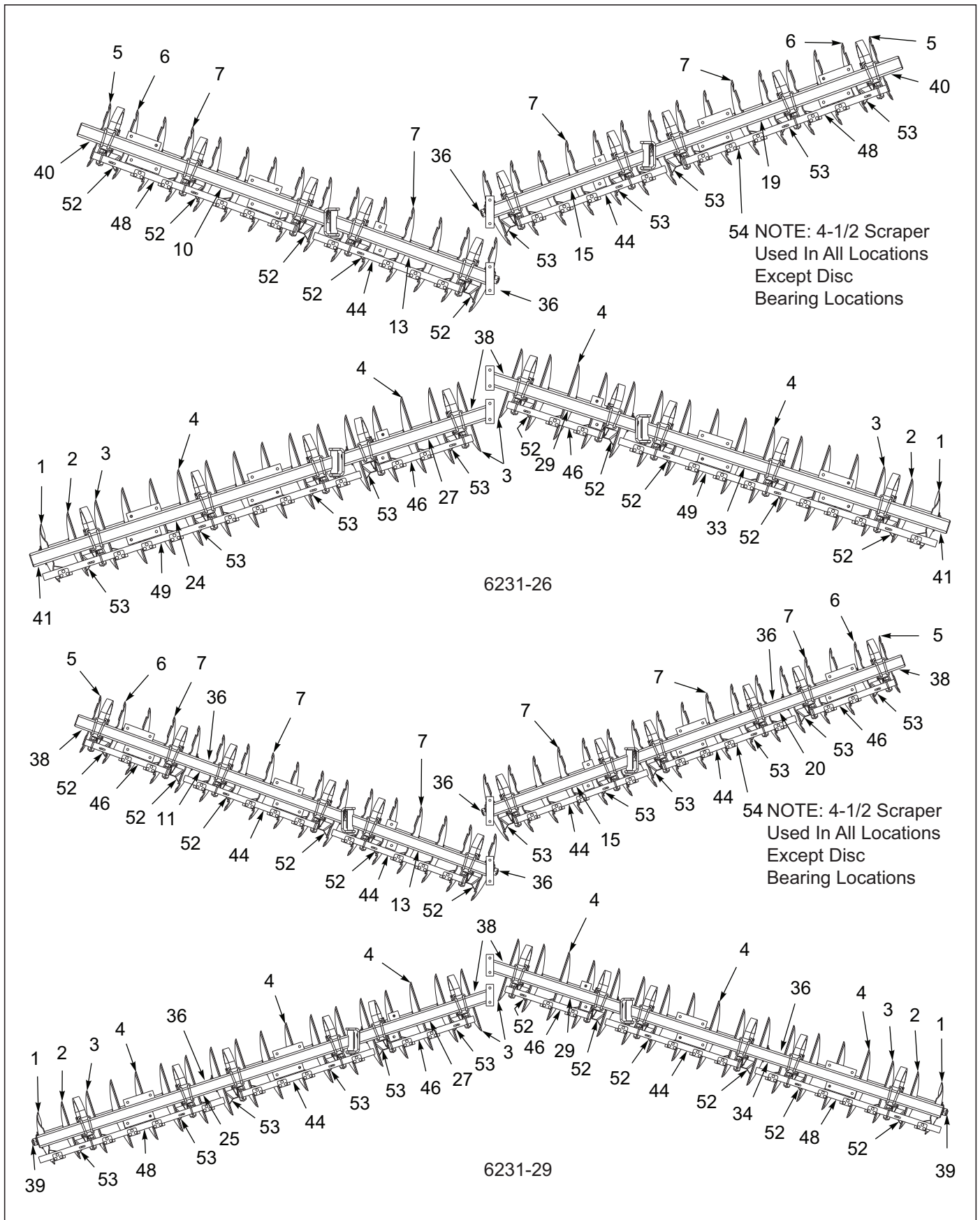


Figure 3-49: Disc Gang Assembly 6231 28" 10-1/2SP NF 5/16" (Notched Front) (2 of 4)

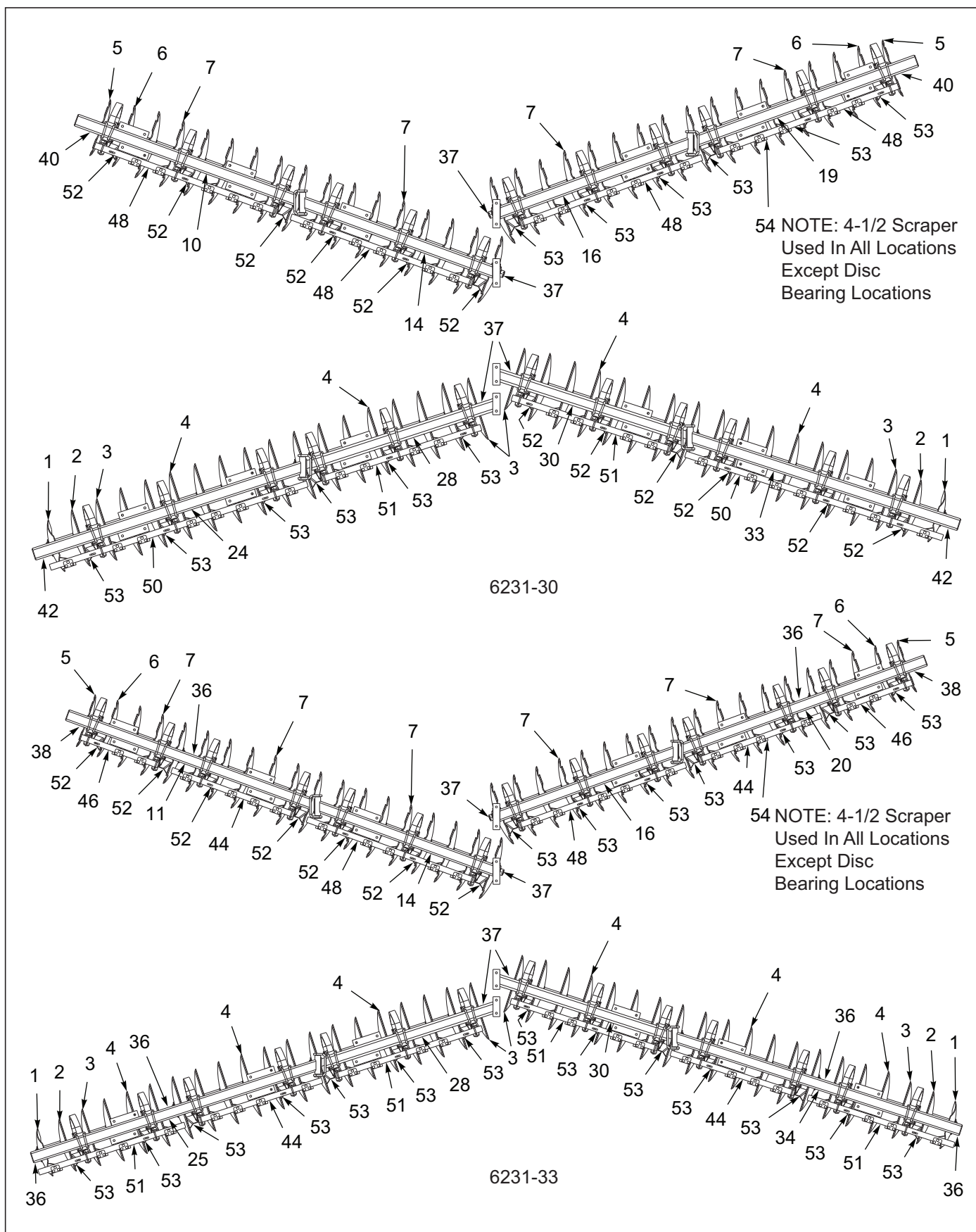


Figure 3-50: Disc Gang Assembly 6231 28" 10-1/2SP NF 5/16" (Notched Front) (3 of 4)

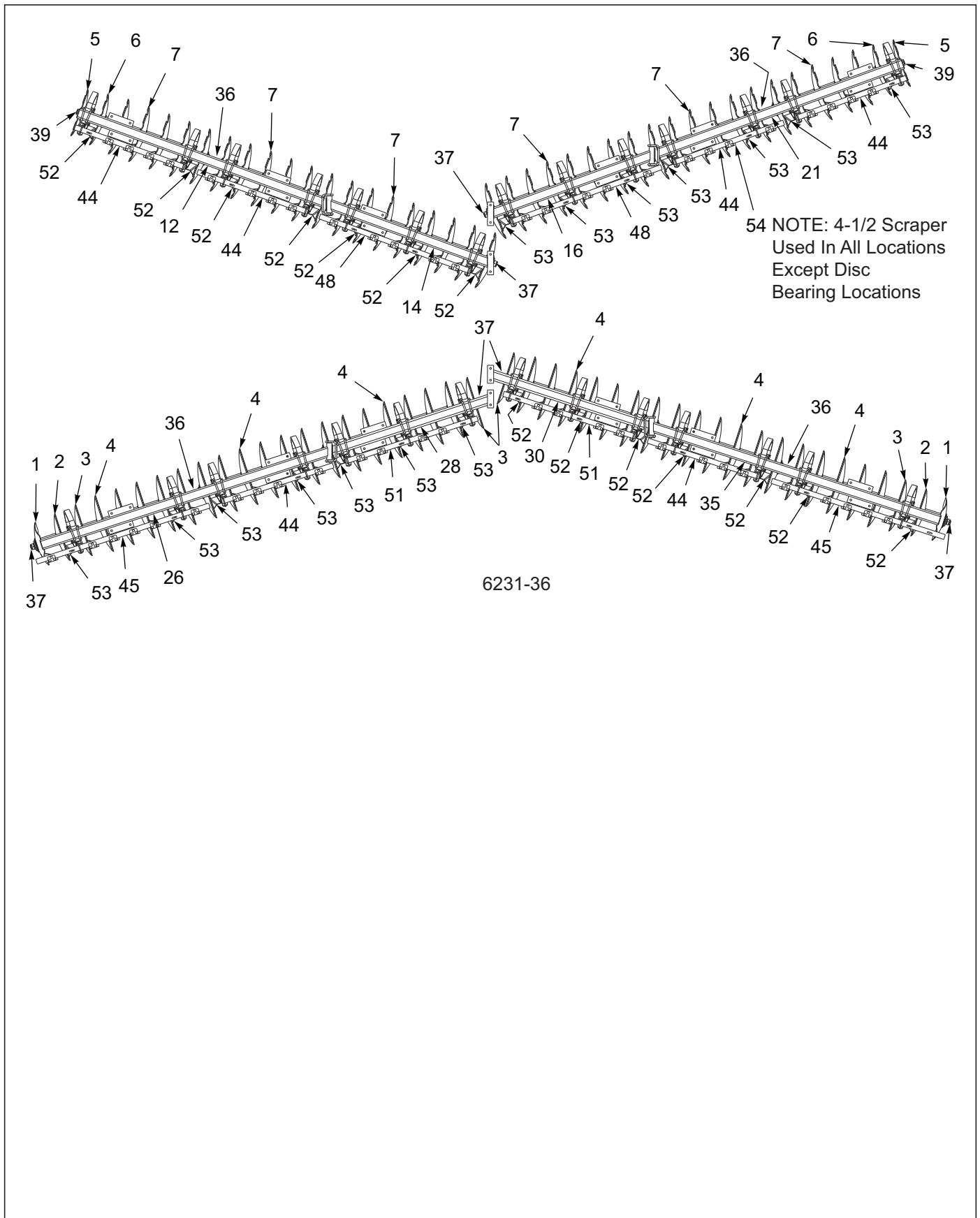


Figure 3-51: Disc Gang Assembly 6231 28" 10-1/2SP NF 5/16" (Notched Front) (4 of 4)

Disc Gang Assembly 28" 10-1/2SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	197726	GANG ASSY, 28X5/16 10-1/2NF 21	*						
--	197727	GANG ASSY, 28X5/16 10-1/2NF 23		*					
--	197728	GANG ASSY, 28X5/16 10-1/2NF 26			*				
--	197729	GANG ASSY, 28X5/16 10-1/2NF 29				*			
--	197730	GANG ASSY, 28X5/16 10-1/2NF 30					*		
--	197731	GANG ASSY, 28X5/16 10-1/2NF 33						*	
--	197732	GANG ASSY, 28X5/16 10-1/2NF 36							*
1	195693	DISC BLADE, 22" X 1/4" 3-SIDED	2	2	2	2	2	2	2
2	161530A	ING DISC BLD, 24X1/4 1-3/4 ID	2	2	2	2	2	2	2
3	169575	DISC BLADE 26"X1/4" 1-3/4" ID	4	4	4	4	4	4	4
4	195676	DISC BLADE, 28X5/16 1-3/4 ID	18	20	28	34	28	32	36
5	195690	DISC BLADE, 24X5/16 NOTCHED	2	2	2	2	2	2	2
6	195691	DISC BLADE, 26X5/16 NOTCHED	2	2	2	2	2	2	2
7	195677	DISC BLADE, 28X5/16 NOTCHED	20	22	30	36	30	34	38
8	193517	GANG BAR, LWF 21 WLDMT	1	--	--	--	--	--	--
9	193521	GANG BAR, LWF 23 WLDMT	--	1	--	--	--	--	--
10	193525	GANG BAR, LWF 26-30 WLDMT	--	--	1	--	1	--	--
11	193529	GANG BAR, LWF 29-33 WLDMT	--	--	--	1	--	1	--
12	193533	GANG BAR, LWF 36 WLDMT	--	--	--	--	--	--	1
13	193509	GANG BAR, LCF 21-29 WLDMT	1	1	1	1	--	--	--
14	193513	GANG BAR, LCF 30-36 WLDMT	--	--	--	--	1	1	1
15	193508	GANG BAR, RCF 21-29 WLDMT	1	1	1	1	--	--	--
16	193512	GANG BAR, RCF 30-36 WLDMT	--	--	--	--	1	1	1
17	193516	GANG BAR, RWF 21 WLDMT	1	--	--	--	--	--	--
18	193520	GANG BAR, RWF 23 WLDMT	--	1	--	--	--	--	--
19	193524	GANG BAR, RWF 26-30 WLDMT	--	--	1	--	1	--	--
20	193528	GANG BAR, RWF 29-33 WLDMT	--	--	--	1	--	1	--
21	193532	GANG BAR, RWF 36 WLDMT	--	--	--	--	--	--	1
22	193519	GANG BAR, LWR 21 WLDMT	1	--	--	--	--	--	--
23	193523	GANG BAR, LWR 23 WLDMT	--	1	--	--	--	--	--
24	193527	GANG BAR, LWR 26-30 WLDMT	--	--	1	--	1	--	--
25	193531	GANG BAR, LWR 29-33 WLDMT	--	--	--	1	--	1	--
26	193535	GANG BAR, LWR 36 WLDMT	--	--	--	--	--	--	1
27	193511	GANG BAR, LCR 21-29 WLDMT	1	1	1	1	--	--	--
28	193515	GANG BAR, LCR 30-36 WLDMT	--	--	--	--	1	1	1
29	193510	GANG BAR, RCR 21-29 WLDMT	1	1	1	1	--	--	--
30	193514	GANG BAR, RCR 30-36 WLDMT	--	--	--	--	1	1	1
31	193518	GANG BAR, RWR 21 WLDMT	1	--	--	--	--	--	--
32	193522	GANG BAR, RWR 23 WLDMT	--	1	--	--	--	--	--
33	193526	GANG BAR, RWR 26-30 WLDMT	--	--	1	--	1	--	--
34	193530	GANG BAR, RWR 29-33 WLDMT	--	--	--	1	--	1	--
35	193534	GANG BAR, RWR 36 WLDMT	--	--	--	--	--	--	1
36	142579	SHAFT, GANG 59-1/2 L	4	2	2	6	--	6	4
37	185724	SHAFT, GANG 80-1/2"	2	--	--	--	4	4	6
38	195698	SHAFT, GANG 49 L	2	2	2	4	--	2	--
39	156951	SHAFT, GANG 70 L	--	2	--	2	--	--	2
40	185721	SHAFT, GANG 91-1/2	--	2	2	--	2	--	--
41	142704	SHAFT, GANG 112-1/2 L	--	--	2	--	--	--	--
42	185722	SHAFT, GANG 102	--	--	--	--	2	--	--

Disc Gang Assembly 28" 10-1/2SP NF 5/16" (Notched Front)

ITEM	PART NUMBER	DESCRIPTION	QTY.							
43	197734	SCRAPER BAR, 10-1/2 SP 4 HOLE	2	--	--	--	--	--	--	--
44	160183	SCRAPER BAR, 10 1/2 SP 5 HOLE	2	4	2	6	--	4	6	
45	149605	SCRAPER BAR,10-1/2 SP 8 HOLE	2	--	--	--	--	--	2	
46	197733	SCRAPER BAR, 10-1/2 SP 3 HOLE	2	2	2	4	--	2	--	
47	149606	SCRAPER BAR, 10-1/2 SP 9 HOLE	--	2	--	--	--	--	--	
48	149604	SCRAPER BAR,10-1/2 SP 7 HOLE	--	--	2	2	4	2	2	
49	149608	SCRAPER BAR,10-1/2 SP 11 HOLE	--	--	2	--	--	--	--	
50	149607	SCRAPER BAR,10-1/2 SP 10 HOLE	--	--	--	--	2	--	--	
51	149603	SCRAPER BAR, 10 1/2 SP 6 HOLE	--	--	--	--	2	4	2	
52	197737	SCRAPER, DUAL LT 28X10-1/2	8	10	10	12	12	14	14	
53	197736	SCRAPER, DUAL RT 28X10-1/2	8	10	10	12	12	14	14	
54	195685	BLADE, SCRAPER HD 28"	30	30	38	42	42	16	53	

Disc Bearing Assembly

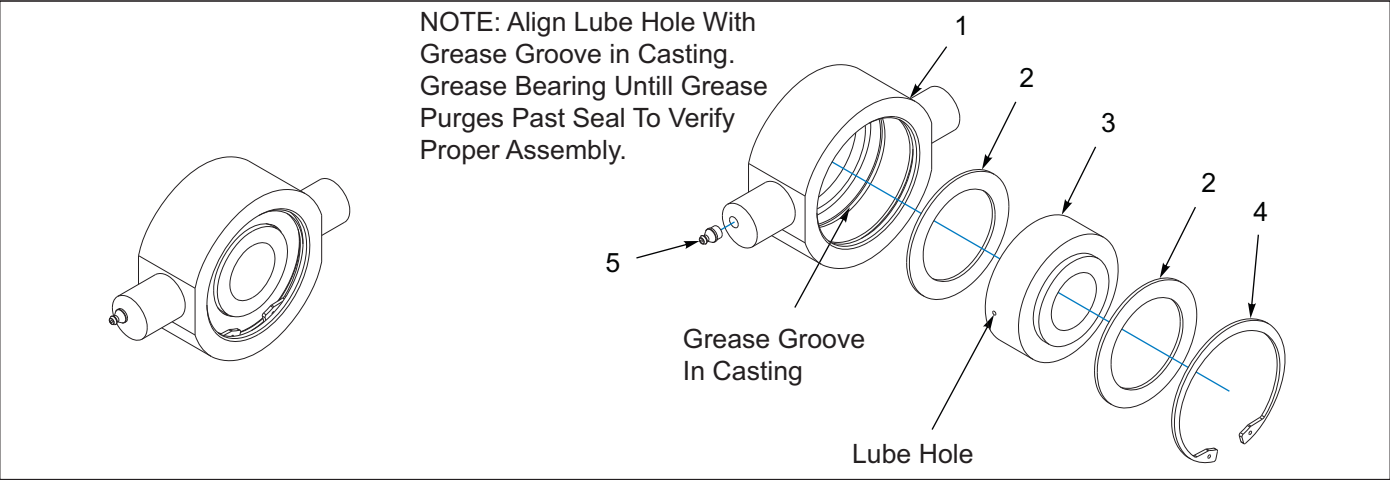


Figure 3-52: Disc Bearing Assembly

Disc Bearing Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140477	BEARING, DISC 1.775 ID ASSY (INCLUDES ITEMS 1-5)	
1	140475	CASTING, TRUNNION	1
2	140473	WASHER, BEARING	2
3	140464	BEARING, DISC 1.775 ID	1
4	140476	INTERNAL RETAINING RING	1
5	5000	ZERK FITTING 1/8NPT	1

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Hydraulic Assemblies

Lift Assembly 6231-21-29

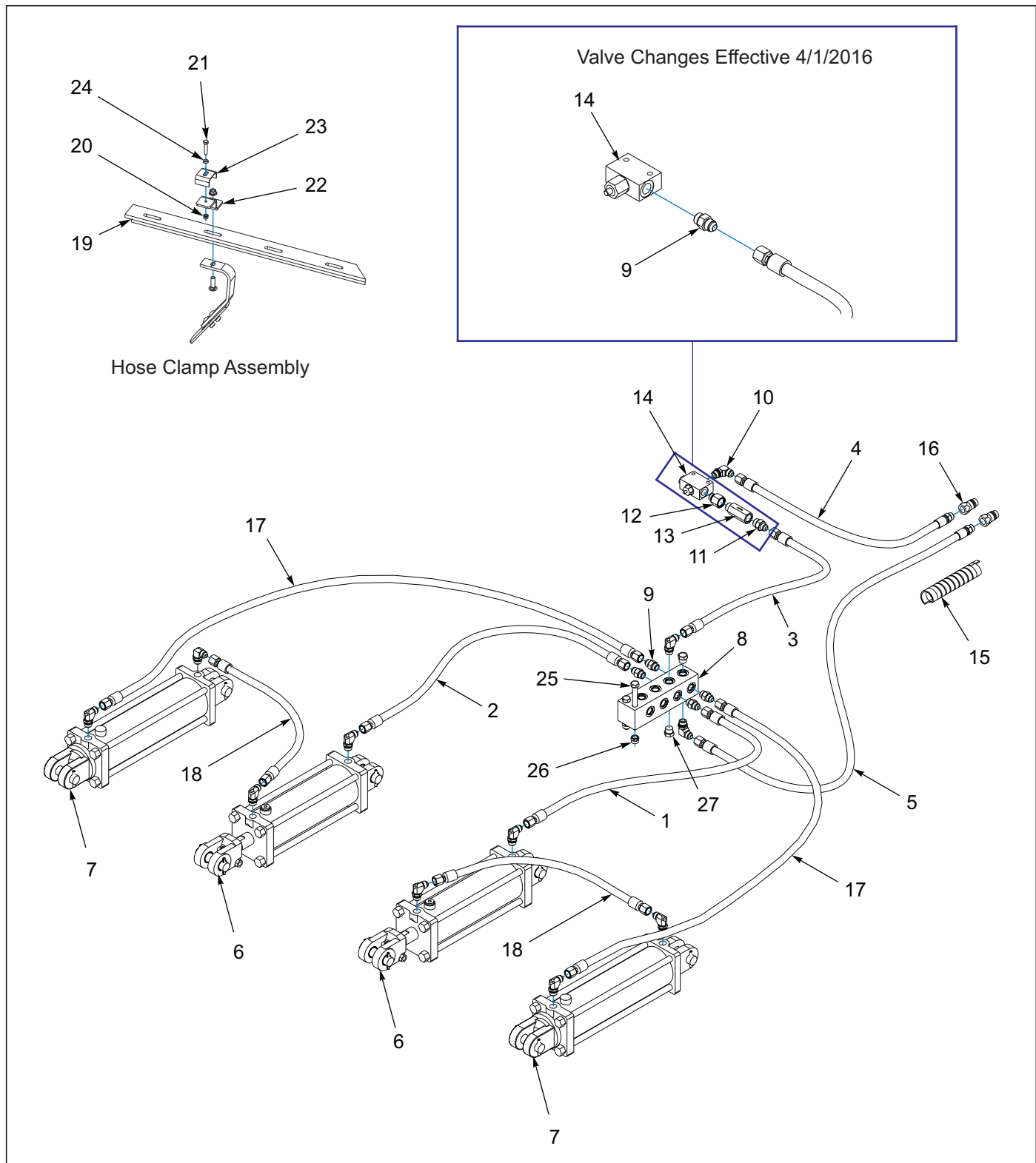


Figure 4-1: Lift Assembly 6231-21-29

Lift Assembly 6231-21-29

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	71508954	HOSE ASSY, 3/8 X 22", #8 JIC, SWVL	1
2	1-397-010369036	HOSE ASSY, 3/8 X 36", #8 JIC, SWVL	1
3	111301	HOSE ASSY, 1/2 X 195" 37 STR-STR	1
4	167555	HOSE ASSY, 1/2 X 210" 37 JIC X 3/4-16 O-RING	1
5	176996	HOSE ASSY, 1/2 X 220" 37 JIC X 3/4-16 O-RING	1
6	247547	CYLINDER, 4 X 10, REPHASE (AFTER 04/15/2024) (SEE PAGE 5-3)	2
6	140470	CYLINDER 4X10 REPHASE (BEFORE 04/15/2024) (SEE PAGE 5-4)	2
7	247546	CYLINDER, 3-3/4 X 10, REPHASE (AFTER 05-10-2024)(SEE PAGE 5-5)	2
7	140471	CYLINDER 3-3/4X10 REPHASE (BEFORE 05-10-2024) (SEE PAGE 5-6)	2
8	141594	MANIFOLD HYDRAULIC, 16 PORT	1
9	202702-8-8S	ADAPTER, #8, O-RING TO #8 TUBE (AFTER 4-1-2016)	4
10	2062-8-8S	ADAPTER, O-RING, 37°, JIC 90	11
11	202702-10-8S	ADAPTER, O-RING, 37° FLARE, SAE 070120 (BEFORE 4-1-2016)	1
12	181938	ADAPTER, #8 MORB X #10 FORB (BEFORE 4-1-2016)	1
13	181933	VALVE, IN-LINE RES (BEFORE 4-1-2016)	1
14	185660	VALVE LIMIT	1
15	155528	HOSE WRAP, BLUE	1
16	141828	COUPLER, MALE, 3/4-16, O-RING	2
17	137600	HOSE ASSY, 3/8 X 130", #8 JIC, SWVL (USED ON 21' MODEL)	2
17	141881	HOSE ASSY, 3/8 X 136", #8 JIC, SWVL (USED ON 23' MODEL)	2
17	144342	HOSE ASSY, 3/8 X 150", #8 JIC, SWVL (USED ON 26' MODEL)	2
17	122911	HOSE ASSY, 3/8 X 168", #8 JIC, SWVL (USED ON 29' MODEL)	2
18	1413183	HOSE ASSY, 3/8 X 103.25", #8 JIC, SWVL (USED ON 21' MODEL)	2
18	1413572	HOSE ASSY, 3/8 X 107", #8 JIC, SWVL (USED ON 23' MODEL)	2
18	137598	HOSE ASSY, 3/8 X 123", #8 JIC, SWVL (USED ON 26' MODEL)	2
18	198296	HOSE ASSY, 3/8 X 144", #8 JIC, SWVL (USED ON 29' MODEL)	2
19	-----	SCRAPER BAR	REF
20	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
21	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	1
22	141275	BRACKET, HOSE CLAMP	1
23	2-181-010001	HOSE CLAMP	1
24	1-861-010032-11	WASHER, FLAT 3/8	1
25	1-654-010055-11	SCREW, HEX 1/2-13 UNC X 3-1/2 UNC, GRB	2
26	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC GRB	2
27	1-007-010025	PLUG, 3/4-16 O-RING BOSS	8

Lift Assembly 6231-30-36

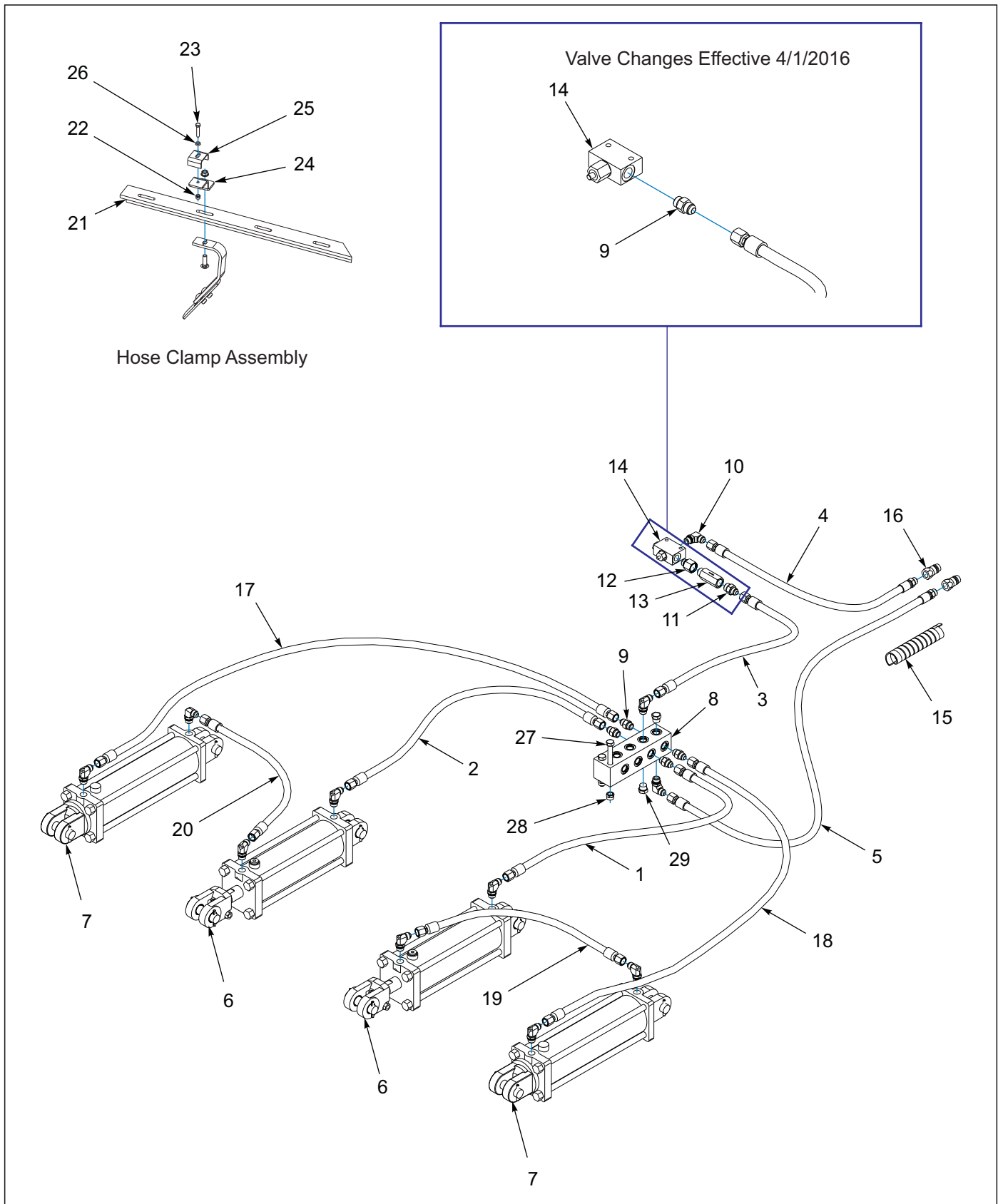


Figure 4-2: Lift Assembly 6231-30-36

Lift Assembly 6231-30-36

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	147584	HOSE ASSY, 3/8 X 40", #8 JIC, SWVL	1
2	71508992	HOSE ASSY, 3/8 X 50", #8 JIC, SWVL	1
3	111301	HOSE ASSY, 1/2 X 36" 37 STR-STR	1
4	167555	HOSE ASSY, 1/2 X 210" 37 JIC X 3/4-16 O-RING	1
5	176996	HOSE ASSY, 1/2 X 220" 37 JIC X 3/4-16 O-RING	1
6	247547	CYLINDER, 4 X 10, REPHASE (AFTER 04/15/2024) (SEE PAGE 5-3)	2
6	140470	CYLINDER 4X10 REPHASE (BEFORE 04/15/2024) (SEE PAGE 5-4)	2
7	247546	CYLINDER, 3-3/4 X 10, REPHASE (AFTER 05-10-2024) (SEE PAGE 5-5)	2
7	140471	CYLINDER 3-3/4X10 REPHASE (BEFORE 05-10-2024) (SEE PAGE 5-6)	2
8	141594	MANIFOLD HYDRAULIC, 16 PORT	1
9	202702-8-8S	ADAPTER, #8, O-RING TO #8 TUBE (AFTER 4-1-2016)	14
10	2062-8-8S	ADAPTER, O-RING, 37°, JIC 90	9
11	202702-10-8S	ADAPTER, O-RING, 37° FLARE, SAE 070120 (BEFORE 4-1-2016)	1
12	181938	ADAPTER, #8 MORB X #10 FORB (BEFORE 4-1-2016)	1
13	181933	VALVE, IN-LINE RES (BEFORE 4-1-2016)	1
14	185660	VALVE LIMIT	1
15	155528	HOSE WRAP, BLUE	1
16	141828	COUPLER, MALE, 3/4-16, O-RING	2
17	71508983	HOSE ASSY, 3/8 X 182", #8 JIC, SWVL (USED ON 30' MODEL)	1
17	117163	HOSE ASSY, 3/8 X 196", #8 JIC, SWVL (USED ON 33' MODEL)	1
17	153621	HOSE ASSY, 3/8 X 212", #8 JIC, SWVL (USED ON 36' MODEL)	1
18	122911	HOSE ASSY, 3/8 X 168", #8 JIC, SWVL (USED ON 30' MODEL)	1
18	150273	HOSE ASSY, 3/8 X 185", #8 JIC, SWVL (USED ON 33' MODEL)	1
18	71509000	HOSE ASSY, 3/8 X 202", #8 JIC, SWVL (USED ON 36' MODEL)	1
19	141881	HOSE ASSY, 3/8 X 136", #8 JIC, SWVL (USED ON 30' MODEL)	1
19	144342	HOSE ASSY, 3/8 X 150", #8 JIC, SWVL (USED ON 33' MODEL)	1
19	144343	HOSE ASSY, 3/8 X 165", #8 JIC, SWVL (USED ON 36' MODEL)	1
20	137600	HOSE ASSY, 3/8 X 130", #8 JIC, SWVL (USED ON 30' MODEL)	1
20	116435	HOSE ASSY, 3/8 X 146", #8 JIC, SWVL (USED ON 33' MODEL)	1
20	144343	HOSE ASSY, 3/8 X 165", #8 JIC, SWVL (USED ON 36' MODEL)	1
21	-----	SCRAPER BAR	REF
22	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
23	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	1
24	141275	BRACKET, HOSE CLAMP	1
25	2-181-010001	HOSE CLAMP	1
26	1-861-010032-11	WASHER, FLAT 3/8	1
27	1-654-010055-11	SCREW, HEX 1/2-13 UNC X 3-1/2 UNC, GRB	2
28	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC GRB	2
29	1-007-010025	PLUG, 3/4-16 O-RING BOSS	8

Fold Assembly 6231-21, 23, 26, 30 (Single)

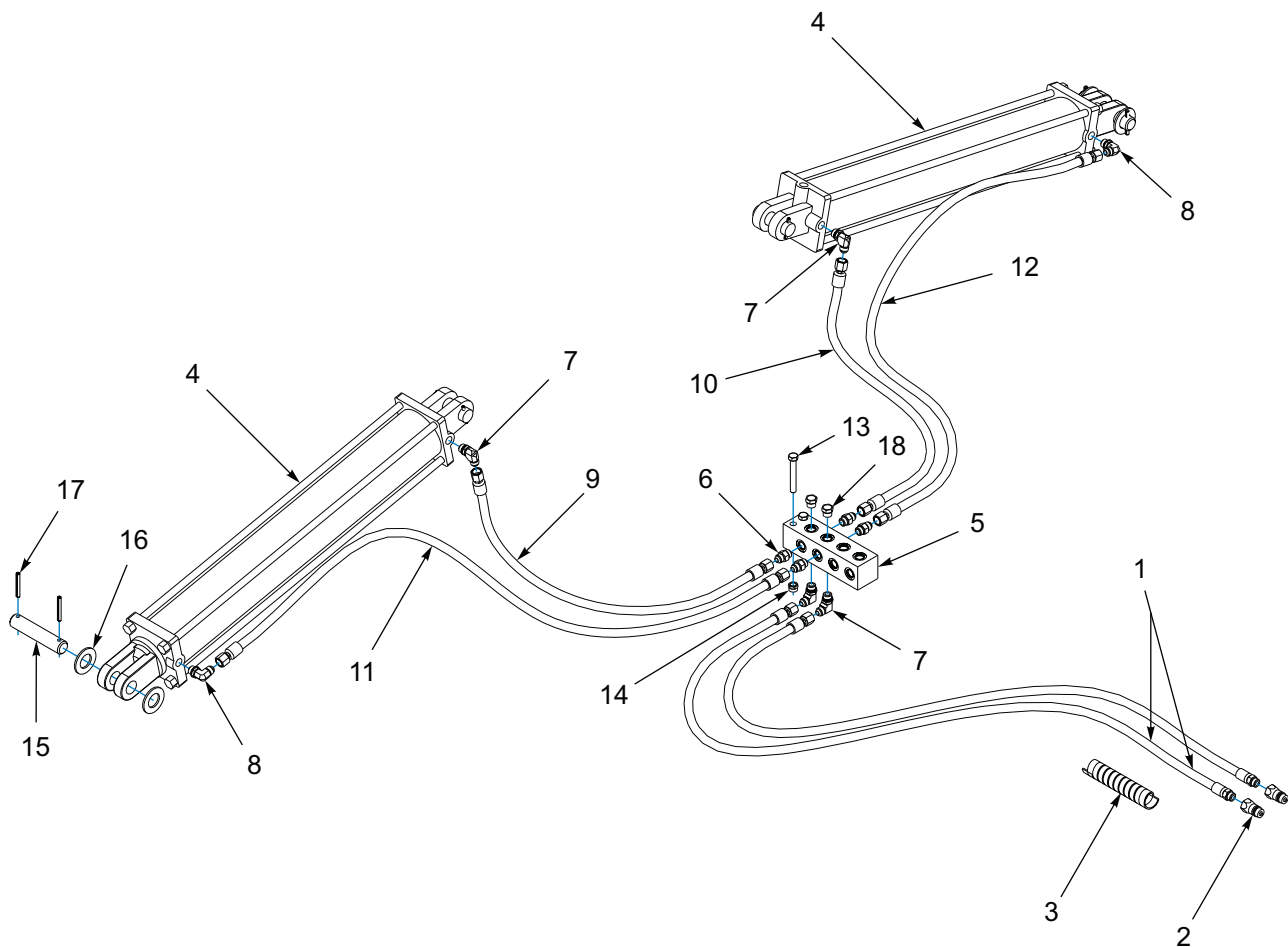


Figure 4-3: Fold Assembly 6231-21, 23, 26, 30 (Single)

Fold Assembly 6231-21, 23, 26, 30 (Single)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	194696	HOSE ASSY, 3/8 X 220", #8 JIC X #8 O-RING	2
2	141828	COUPLER, MALE, 3/4-16, O-RING	2
3	155529	HOSE WRAP, YELLOW	1
4	167575	CYLINDER, 4-1/2 X 30, 2 DIA ROD (SEE PAGE 5-7)	2
5	141594	MANIFOLD HYDRAULIC, 16 PORT	1
6	202702-8-8S	ADAPTER, #8, O-RING TO #8 TUBE	14
7	2062-8-8S	ADAPTER, O-RING, 37°, JIC 90	4
8	141826	ELBOW 90, 3/4 O-RING-3/4 JIC, 1/16 RES	2
9	71508954	HOSE ASSY, 3/8 X 22", #8 JIC, SWVL (USED ON 21'-26' MODELS)	1
9	147123	HOSE ASSY, 3/8 X 31", #8 JIC, SWVL (USED ON 30' MODEL)	1
10	153842	HOSE ASSY, 3/8 X 33", #8 JIC, SWVL (USED ON 21'-26' MODELS)	1
10	147584	HOSE ASSY, 3/8 X 40", #8 JIC, SWVL (USED ON 30' MODEL)	1
11	71508984	HOSE ASSY, 3/8 X 42", #8 JIC, SWVL (USED ON 21'-26' MODELS)	1
11	116432	HOSE ASSY, 3/8 X 60", #8 JIC, SWVL (USED ON 30' MODEL)	1
12	71508992	HOSE ASSY, 3/8 X 50", #8 JIC, SWVL (USED ON 21'-26' MODELS)	1
12	122910	HOSE ASSY, 3/8 X 70", #8 JIC, SWVL (USED ON 30' MODEL)	1
13	1-654-010055-11	SCREW, HEX 1/2-13 UNC X 3-1/2 UNC, GRB	2
14	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC GRB	2
15	141244	PIN, FOLD	4
16	116100	WASHER 1-1/4 NAR FL ZP/CD	8
17	1-647-010004240	PIN, SPRING, SLOTTED, 5/16X2-1/2	8
18	1-007-010025	PLUG, 3/4-16 O-RING BOSS	12

Fold Assembly 6231-29 (Double)

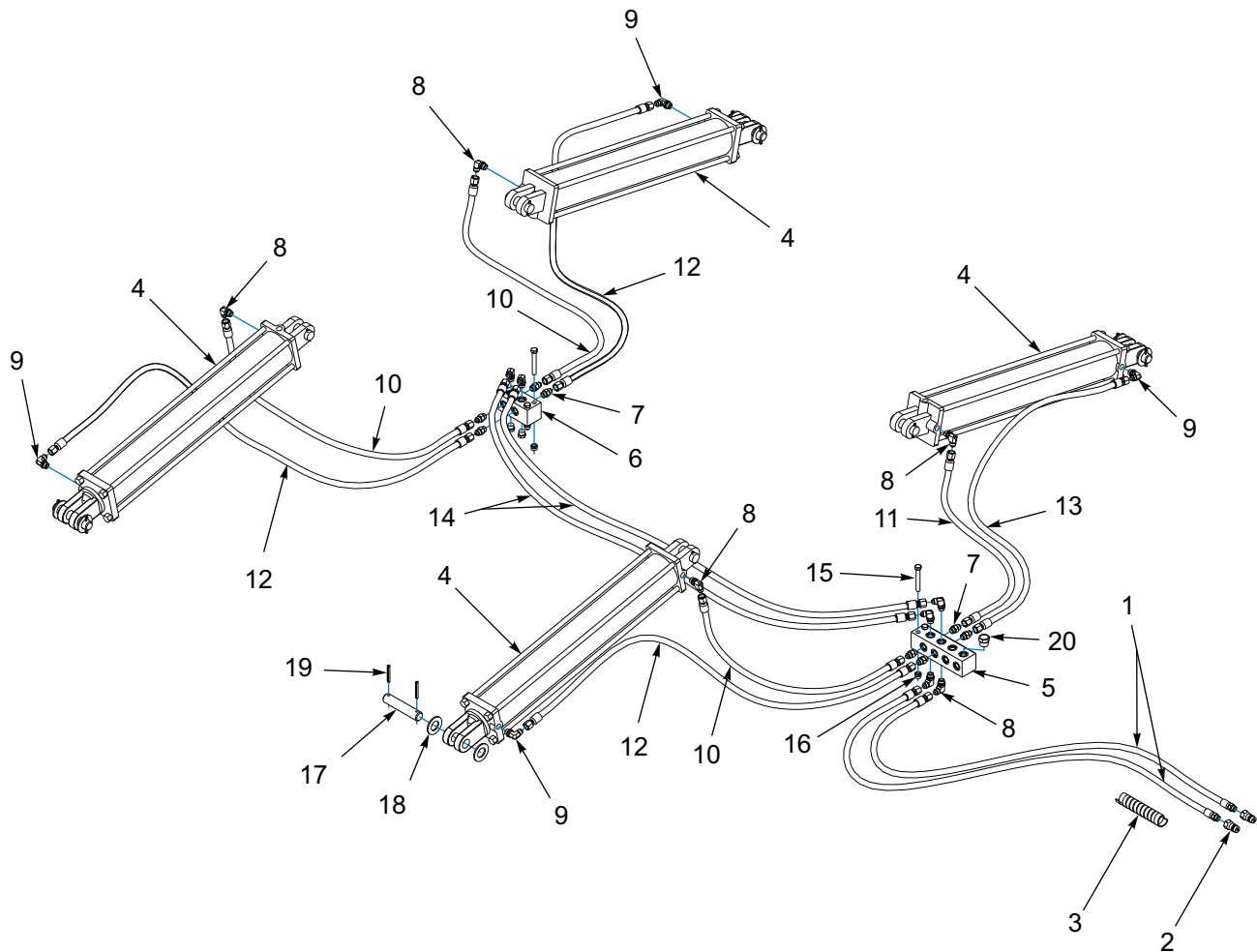


Figure 4-4: Fold Assembly 6231-29 (Double)

Fold Assembly 6231-29 (Double)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	194696	HOSE ASSY, 3/8 X 220", #8 JIC X #8 O-RING	2
2	141828	COUPLER, MALE, 3/4-16, O-RING	2
3	155529	HOSE WRAP, YELLOW	1
4	167575	CYLINDER, 4-1/2 X 30, 2 DIA ROD (SEE PAGE 5-7)	4
5	141594	MANIFOLD HYDRAULIC, 16 PORT	1
6	2-474-010022	MANIFOLD HYDRAULIC ASSY, 6 HOSE	1
7	202702-8-8S	ADAPTER, #8, O-RING TO #8 TUBE	8
8	2062-8-8S	ADAPTER, O-RING, 37°, JIC 90	10
9	141826	ELBOW 90, 3/4 O-RING-3/4 JIC, 1/16 RES	4
10	71508954	HOSE ASSY, 3/8 X 22", #8 JIC, SWVL	3
11	153842	HOSE ASSY, 3/8 X 33", #8 JIC, SWVL	1
12	71508984	HOSE ASSY, 3/8 X 42", #8 JIC, SWVL	3
13	71508992	HOSE ASSY, 3/8 X 50", #8 JIC, SWVL	1
14	137599	HOSE ASSY, 3/8 X 126", #8 JIC, SWVL	2
15	1-654-010055-11	SCREW, HEX 1/2-13 UNC X 3-1/2 UNC, GRB	2
16	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC GRB	2
17	141244	PIN, FOLD	4
18	116100	WASHER 1-1/4 NAR FL ZP/CD	8
19	1-647-010004240	PIN, SPRING, SLOTTED, 5/16X2-1/2	8
20	1-007-010025	PLUG, 3/4-16 O-RING BOSS	12

Fold Assembly 6231-33-36 (Double)

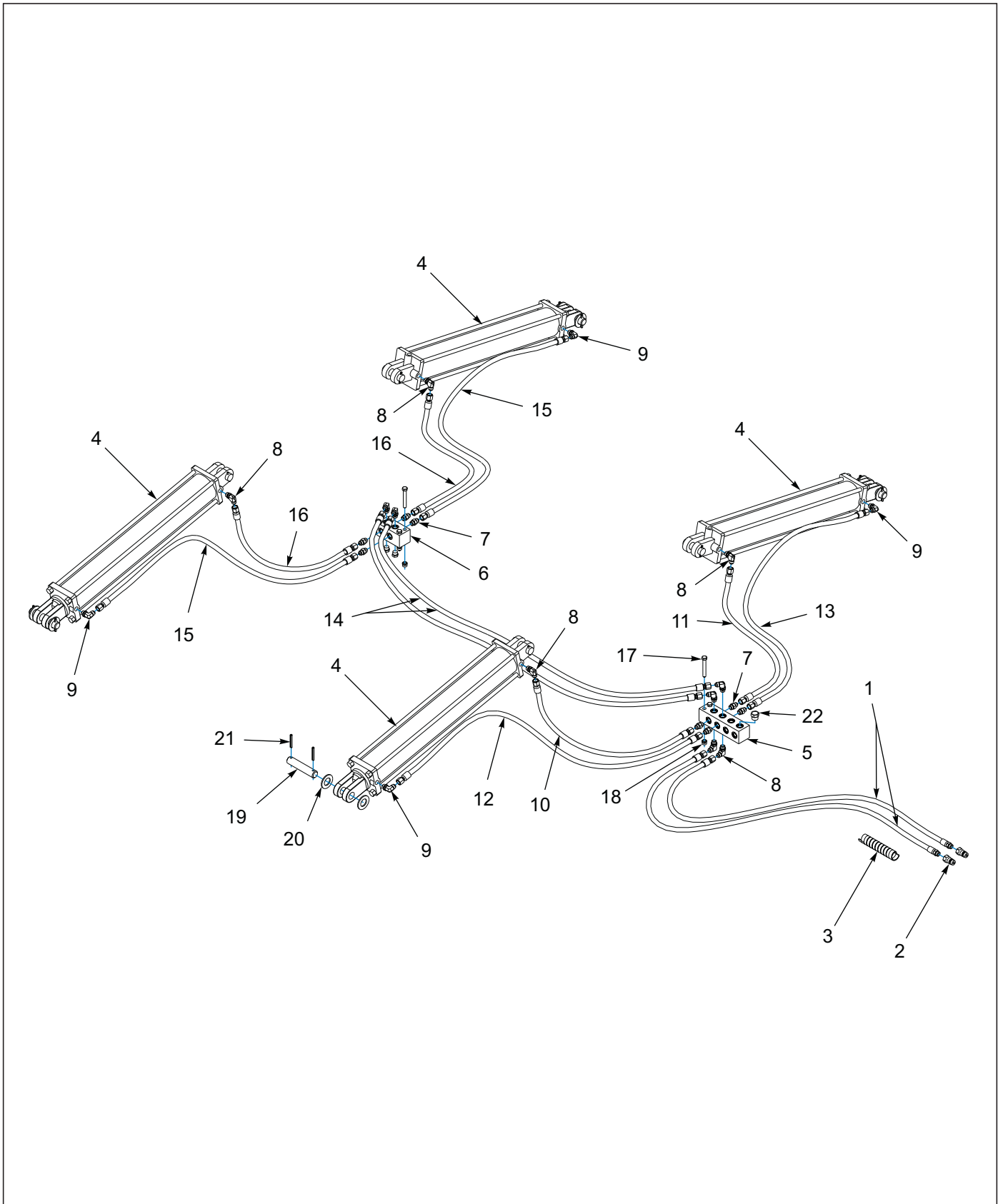


Figure 4-5: Fold Assembly 6231-33-36 (Double)

Fold Assembly 6231-33-36 (Double)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	194696	HOSE ASSY, 3/8 X 222", #8 JIC X #8 O-RING	2
2	141828	COUPLER, MALE, 3/4-16, O-RING	2
3	155529	HOSE WRAP, YELLOW	1
4	167575	CYLINDER, 4-1/2 X 30, 2 DIA ROD (SEE PAGE 5-7)	4
5	141594	MANIFOLD HYDRAULIC, 16 PORT	1
6	2-474-010022	MANIFOLD HYDRAULIC ASSY, 6 HOSE	1
7	202702-8-8S	ADAPTER, #8, O-RING TO #8 TUBE	8
8	2062-8-8S	ADAPTER, O-RING, 37°, JIC 90	10
9	141826	ELBOW 90, 3/4 O-RING-3/4 JIC, 1/16 RES	4
10	147123	HOSE ASSY, 3/8 X 31", #8 JIC, SWVL	1
11	147584	HOSE ASSY, 3/8 X 40", #8 JIC, SWVL	1
12	116432	HOSE ASSY, 3/8 X 60", #8 JIC, SWVL	1
13	122910	HOSE ASSY, 3/8 X 70", #8 JIC, SWVL	1
14	166171	HOSE ASSY, 3/8 X 114", #8 JIC, SWVL	2
15	153843	HOSE ASSY, 3/8 X 67", #8 JIC, SWVL	2
16	1-397-010369036	HOSE ASSY, 3/8 X 36", #8 JIC, SWVL	2
17	1-654-010055-11	SCREW, HEX 1/2-13 UNC X 3-1/2 UNC, GRB	2
18	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC GRB	2
19	141244	PIN, FOLD	4
20	116100	WASHER 1-1/4 NAR FL ZP/CD	8
21	1-647-010004240	PIN, SPRING, SLOTTED, 5/16X2-1/2	8
22	1-007-010025	PLUG, 3/4-16 O-RING BOSS	12

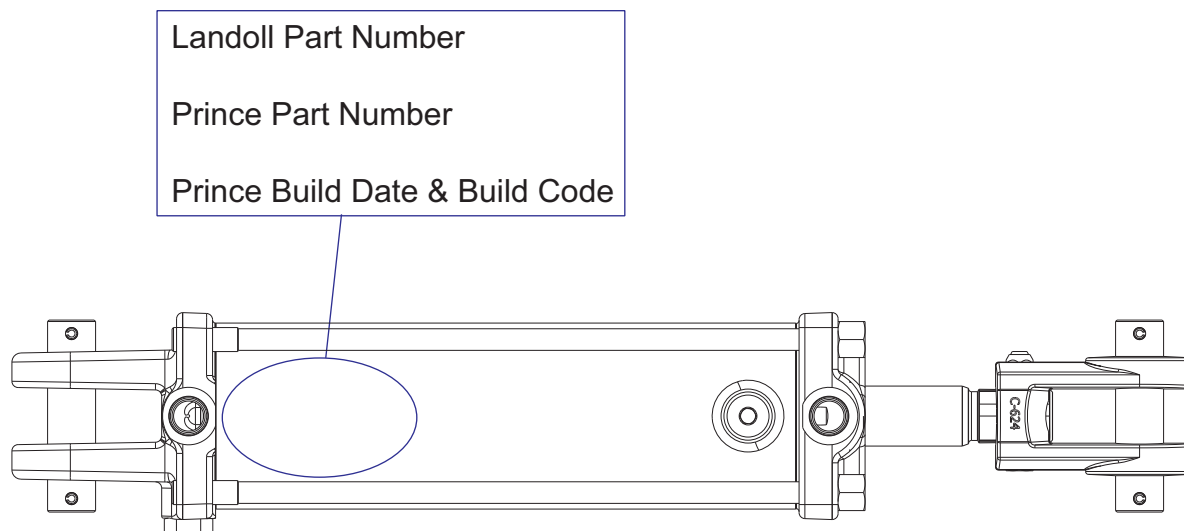
Cylinders

Rephasing Hydraulic Cylinder Change

As of January 1st, 2024, the **REPHASING** cylinders that Landoll purchases from Prince Manufacturing have been modified by Prince Manufacturing. These changes have required Landoll to assign new part numbers for the cylinders and corresponding service items, i.e. packing kits, glands, clevis ends, etc.

During assembly and service of your Landoll equipment it is important to know which cylinders you are dealing with. During the modification process listed above, Landoll requested that the below two changes be implemented to help aid our customers in identifying the cylinder:

1. Engrave the Landoll part number into the barrel of the cylinder.



2. Remove spring bushings in both the butt end and rod clevises. Change both clevises to an Austempered Ductile Iron (ADI) material for improved strength and wearability.

NOTE: When ordering parts, please make sure the correct cylinder part number has been identified, ensuring that you receive the correct parts. Record the information from the identification plate (See Figure 1-1) to assist with ordering parts.

Figure 5-1: Rephasing Hydraulic Cylinder Change

Cross Reference Matrix For Model 6231 Disc

Old Landoll Part Number	New Landoll Part Number	Landoll Part Description
140470	247547	Cylinder, 4 x 10, Rephase
140471	247546	Cylinder, 3-3/4 x 10, Rephase

Figure 5-2: Cross Reference Matrix For Model 6231 Disc

Cylinder Assembly 4 x 10, Rephase

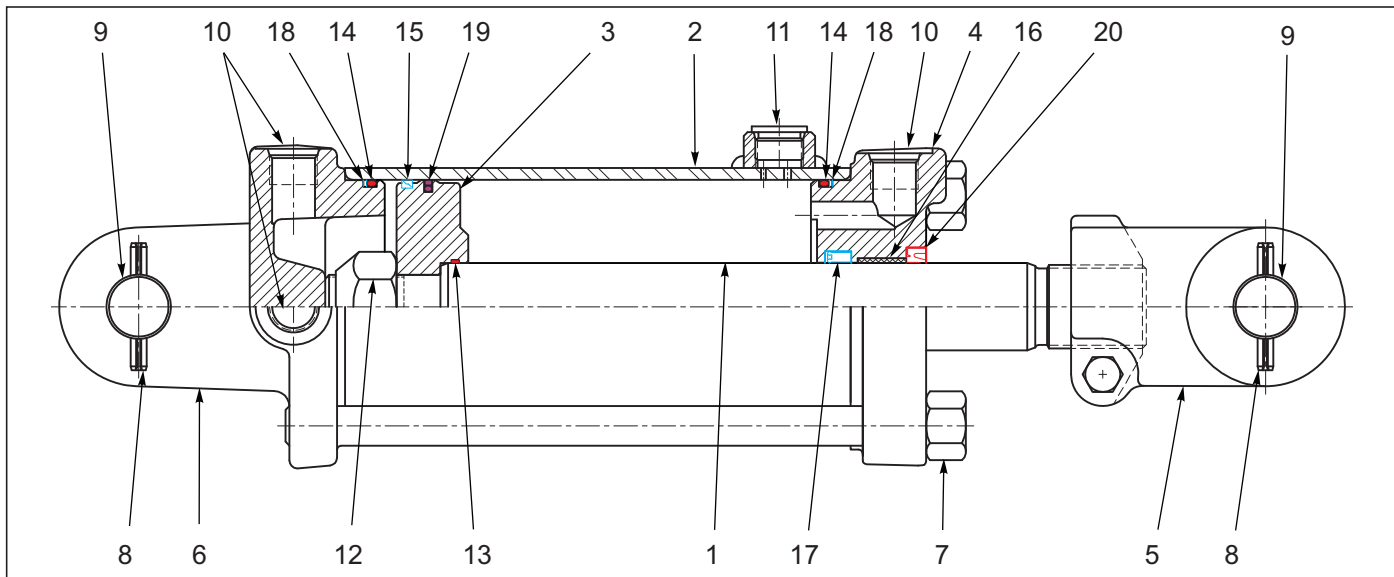


Figure 5-3: Cylinder Assembly 4 x 10, Rephase

Cylinder Assembly 4 x 10, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247547	CYLINDER, 4 X 10, REPHASE	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252929	GLAND, 4" BORE, PRINCE	1
5	252925	ROD CLEVIS-ADI, 1" PIN, PRINCE	1
6	252930	BUTT CLEVIS-ADI, 4" BORE, PRINCE	1
7	----	TIE ROD STUD W/ HEX NUT	1
8	111789	PIN, ROLL #190100057 (ø1/4 x 2)	4
9	143994	CLEVIS PIN, ø1 HARDEN, PRINCE	2
10	----	#8 SAE HEX HEAD PLUG	3
11	----	#8 SAE HOLLOW HEX PLUG	1
12	----	LOCKNUT	1
13	----	O- RING	1
14	----	O- RING	2
15	----	PISTON BEARING RING	1
16	252927	GLAND BUSHING, 1-3/8 ROD, PRINCE	1
17	----	U- CUP	1
18	----	BU- WASHER	2
19	----	TEFLON SEAL	1
20	----	CANNED WIPER	1
21	252931	PACKING KIT, 4" BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 4 x 10, Rephase

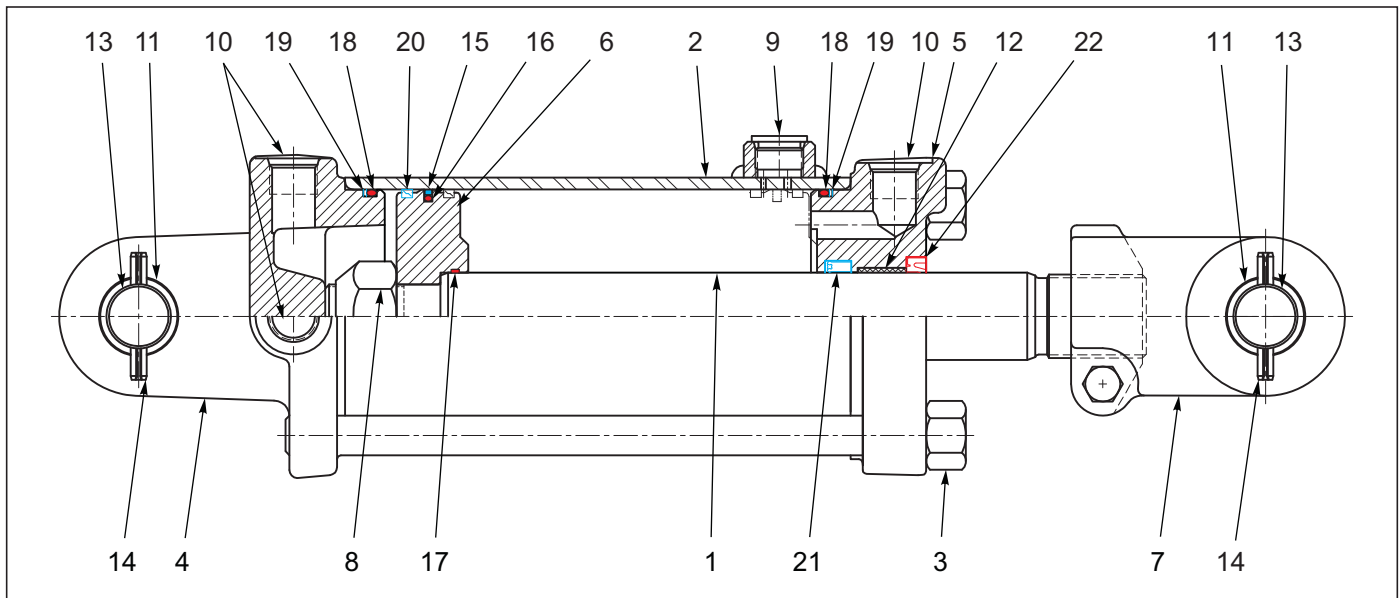


Figure 5-4: Cylinder Assembly 4 x 10, Rephase

Cylinder Assembly 4 x 10, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140470	CYLINDER 4X10 REPHASE (1" PINS) (DISCONTINUED)	
1	----	PISTON, ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	1
4	142114	BUTT CLEVIS ASSEMBLY	1
5	142109	GLAND ASSEMBLY	1
6	----	PISTON	1
7	142110	CLEVIS ASSEMBLY	1
8	----	NUT, LOCK	1
9	----	PLUG, PORT	1
10	----	PLUG, PORT	3
11	142112	BUSHING, HARDENED	4
12	141301	BUSHING	1
13	143994	CLEVIS PIN, $\phi 1$ HARDEN, PRINCE	2
14	111789	PIN, ROLL #190100057 ($\phi 1/4 \times 2$)	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	1
18	----	O- RING	2
19	----	BU- WASHER	2
20	----	BEARING RING	2
21	----	U- CUP	1
22	----	CANNED WIPER	1
23	142111	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-22)	

Cylinder Assembly 3-3/4 x 10, Rephase

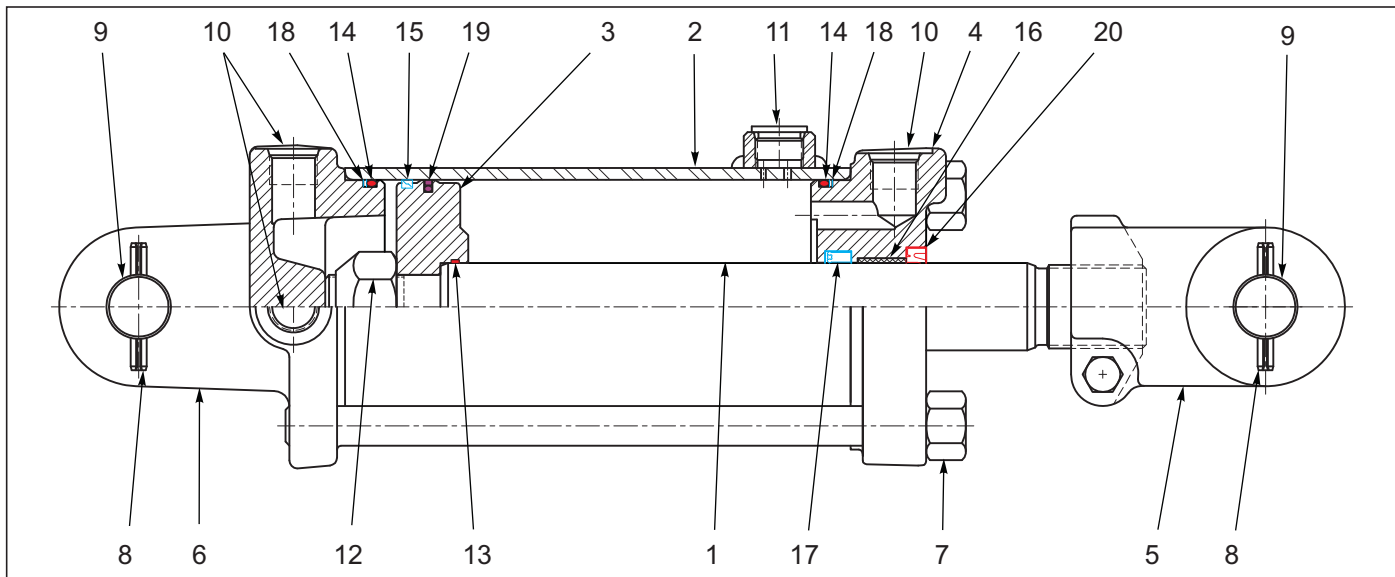


Figure 5-5: Cylinder Assembly 3-3/4 x 10, Rephase

Cylinder Assembly 3-3/4 x 10, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247546	CYLINDER, 3-3/4 X 10, REPHASE	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252924	GLAND, 3-3/4" BORE, PRINCE	1
5	252925	ROD CLEVIS-ADI, 1" PIN, PRINCE	1
6	252926	BUTT CLEVIS-ADI, 3-3/4 BORE, PRC	1
7	----	TIE ROD STUD W/ HEX NUT	1
8	111789	PIN, ROLL #190100057 (ø1/4 x 2)	4
9	143994	CLEVIS PIN, ø1 HARDEN, PRINCE	2
10	----	#8 SAE HEX HEAD PLUG	3
11	----	#8 SAE HOLLOW HEX PLUG	1
12	----	LOCKNUT	1
13	----	O- RING	1
14	----	O- RING	2
15	----	PISTON BEARING RING	1
16	252927	GLAND BUSHING, 1-3/8 ROD, PRINCE	1
17	----	U- CUP	1
18	----	BU- WASHER	2
19	----	TEFLON SEAL	1
20	----	CANNED WIPER	1
21	252928	PACKING KIT, 3-3/4 BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 3-3/4 x 10, Rephase

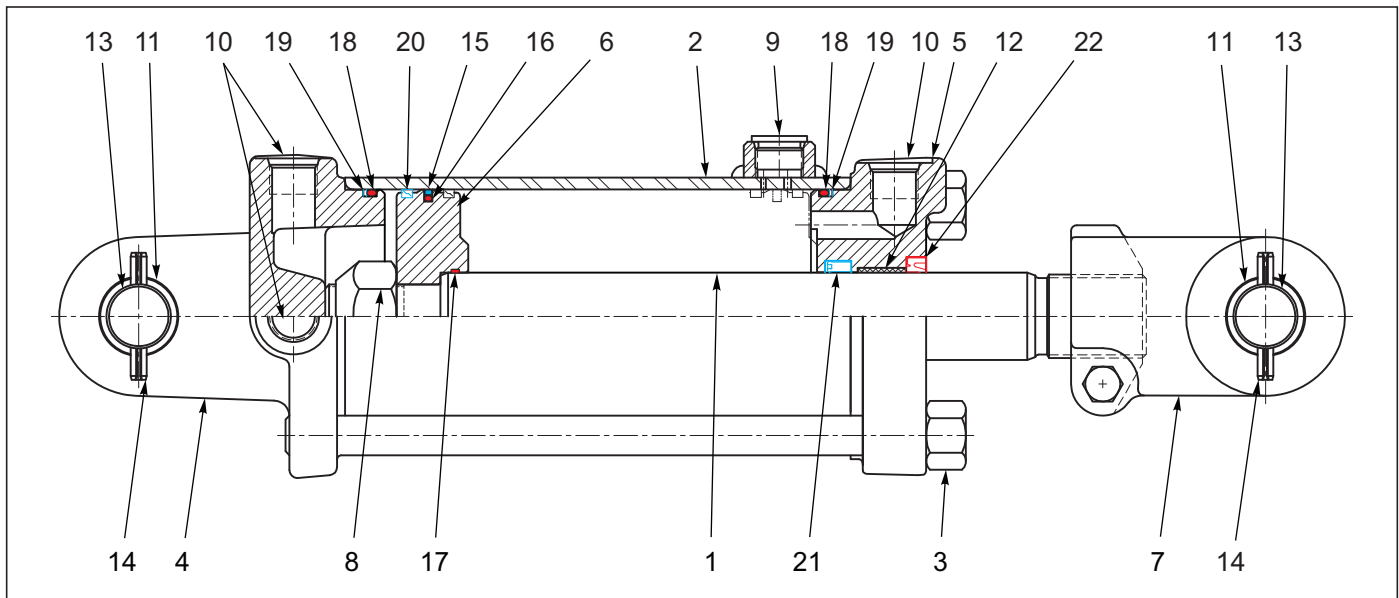


Figure 5-6: Cylinder Assembly 3-3/4, x 10, Rephase

Cylinder Assembly 3-3/4 x 10, Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140471	CYLINDER, 3-3/4 X 10, REPHASE (1" PINS) (DISCONTINUED)	
1	----	PISTON, ROD	1
2	----	TUBE ASSY	1
3	----	TIEROD ASSY	1
4	142116	BUTT CLEVIS ASSEMBLY	1
5	111871	GLAND ASSY, 9800 #081800022	1
6	----	PISTON ROD	1
7	142110	CLEVIS ASSEMBLY	1
8	----	NUT, LOCK	1
9	----	PLUG, PORT	1
10	----	PLUG, PORT	3
11	142112	BUSHING, HARDENED	4
12	141301	BUSHING	1
13	143994	CLEVIS PIN, $\phi 1$ HARDEN, PRINCE	2
14	111789	PIN,ROLL #190100057 ($\phi 1/4$ x 2)	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	1
18	----	O- RING	2
19	----	BU- WASHER	2
20	----	BEARING RING	2
21	----	U- CUP	1
22	----	CANNED WIPER	1
23	142103	PRINCE #PMCK-BH-0669 (NOT SHOWN) (INCLUDES ITEMS 15-22)	

Cylinder Assembly 4-1/2 x 30

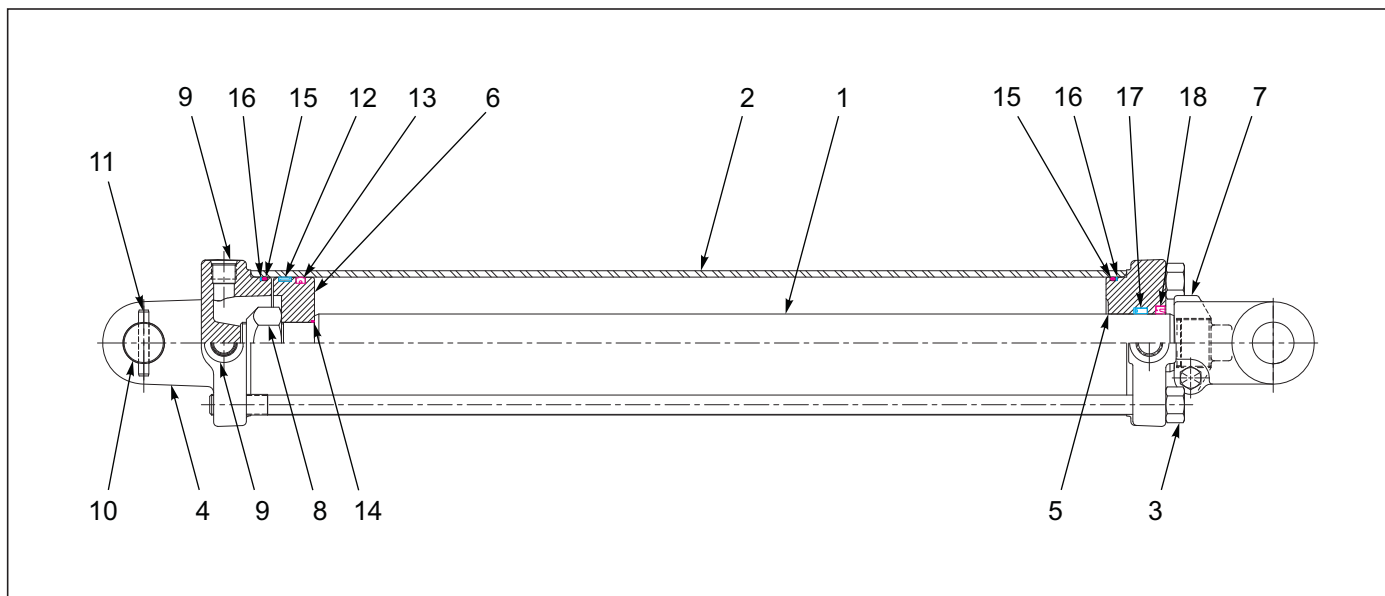


Figure 5-7: Cylinder Assembly 4-1/2 x 30

Cylinder Assembly 4-1/2 x 30

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	167575	CYLINDER, 4-1/2 X 30, 2DIA ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSEMBLY	4
4	218648	BUTT CLEVIS ASSY	1
5	169549	GLAND	1
6	----	PISTON	1
7	100000362	CLEVIS FOR 3-242-010050 CYL	1
8	----	LOCKNUT	1
9	----	PORT PLUG	3
10	169550	CLEVIS PIN	1
11	147072	PIN, SPRING SLOTTED 5/16 X 2	2
12	----	BEARING RING	2
13	----	CROWN SEAL	1
14	----	O-RING	1
15	----	O-RING	2
16	----	BU-WASHER	2
17	----	U-CUP	1
18	----	WIPER	2
19	169552	PACKING KIT (ITEMS 12-18)	1

Cylinder Assembly 3-1/2 x 6

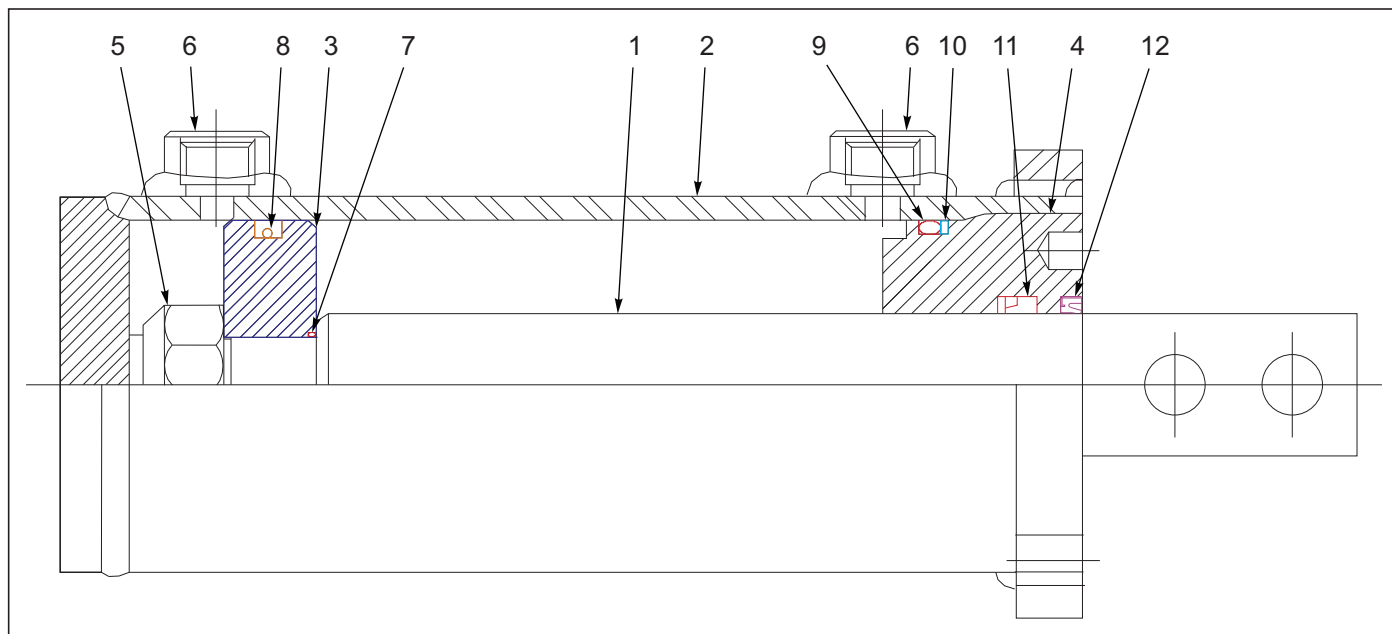


Figure 5-8: Cylinder Assembly 3-1/2 x 6

Cylinder Assembly 3-1/2 x 6

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140631	CYLINDER 3-1/2X6	
1	142803	PISTON ROD	1
2	----	BUTT AND TUBE ASSEMBLY	1
3	----	PISTON	1
4	142806	GLAND	1
5	----	LOCKNUT	1
6	----	PORT PLUG	2
7	----	O-RING	1
8	----	CROWN SEAL	1
9	----	O-RING	1
10	----	BU-WASHER	1
11	----	U-CUP	1
12	----	CANNED WIPER	1
13	142807	PACKING KIT (NOT SHOWN) (INCLUDES ITEM 7-12)	

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

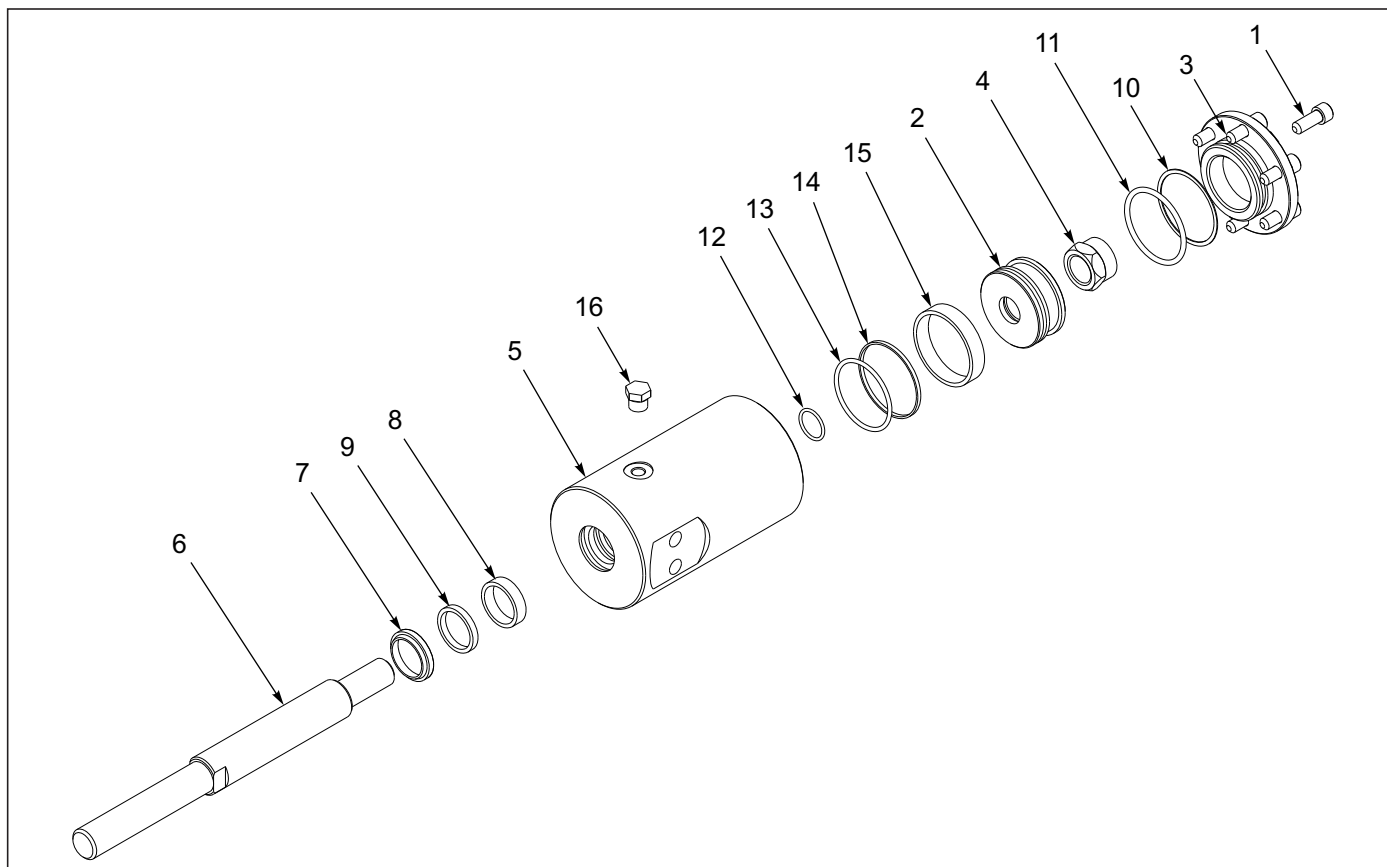


Figure 5-9: Cylinder Assembly 2-1/2 x 2-1/2

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	172537	CYL ASSY 2-1/2"X 2-1/2" STROKE (1" THREADS) (BEFORE 6-8-2017)	
1	-----	SCREW, HEX SOCKET 3/8-16 X 1	6
2	-----	PISTON, 2-1/2 BORE	1
3	171080	BASE CAP 2-1/2"	1
4	-----	NUT, HEX LOCK 7/8-14 GRC	1
5	-----	CYLINDER, BARREL 2-1/2 STROKE	1
6	172539	ROD 1-1/4" DIA 2-1/2" STROKE	1
7	-----	WIPER, 1-1/4 ROD	1
8	-----	WEAR RING, 1-1/4 ROD	1
9	-----	U-CUP, 1-1/4 ROD	1
10	-----	BACK-UP RING, CAP	1
11	-----	O-RING, CAP	1
12	-----	O-RING, PISTON	1
13	-----	O-RING, PISTON	1
14	-----	SEAL, 2-1/2 PISTON	1
15	-----	WEAR RING, 2-1/2 PISTON	1
16	-----	PLUG, O-RING 9/16-18	2
17	171081	SEAL KIT, 2-1/2" BORE CYL (NOT SHOWN) (INCL. ITEMS 7 - 15)	

Cylinder Assembly 2-1/2 x 2-1/2 1-1/8 Threads

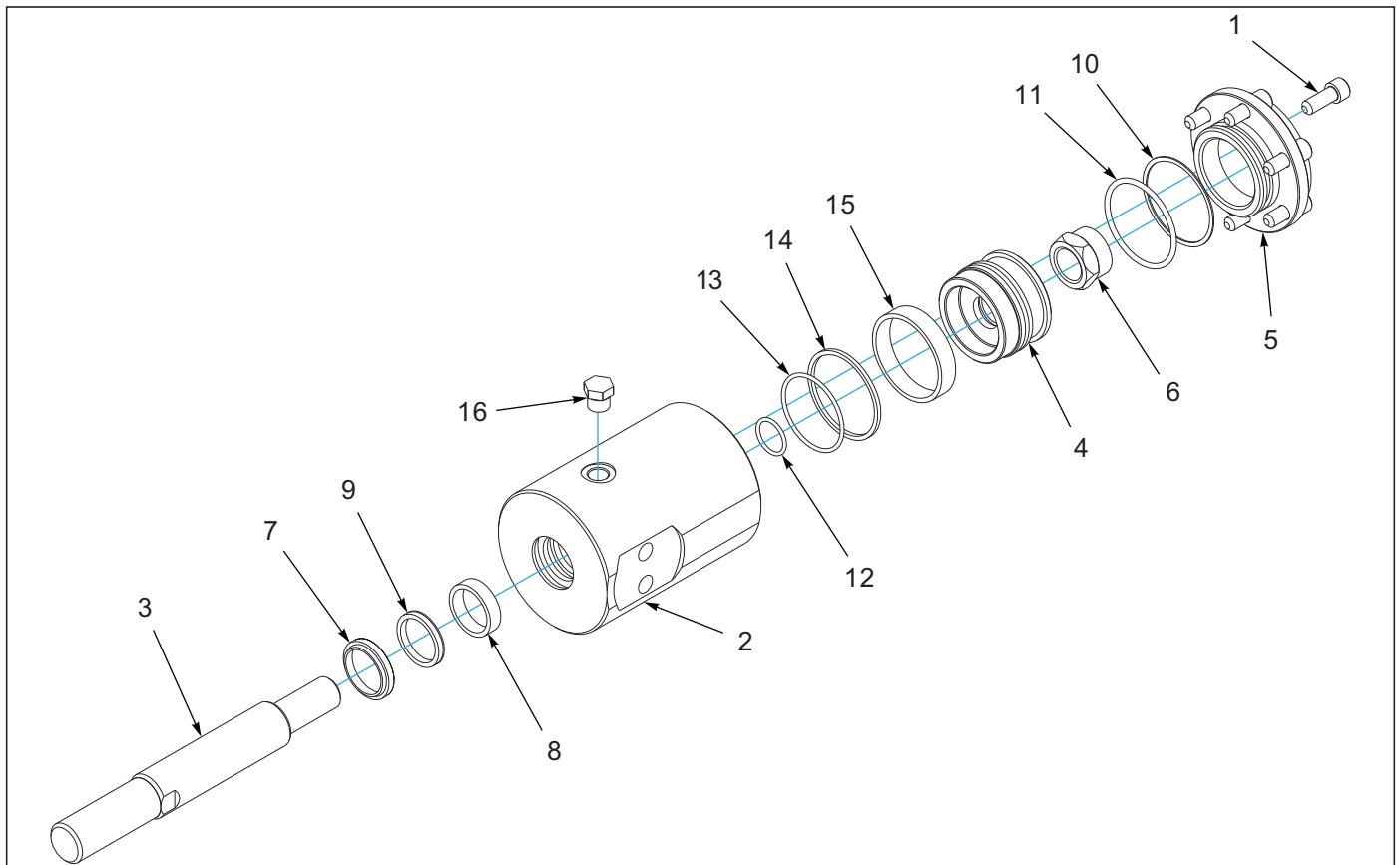


Figure 5-10: Cylinder Assembly 2-1/2 x 2-1/2 1-1/8 Threads

Cylinder Assembly 2-1/2 x 2-1/2 1-1/8 Threads

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (AFTER 6-8-2017)	
1	----	SCREW, HEX SOCKET 3/8-16 X 1	6
2	----	CYLINDER, BARREL 2-1/2" STROKE	1
3	206673	ROD 1-1/4 DIA	1
4	----	PISTON, 2-1/2 BORE	1
5	171080	BASE CAP 2-1/2"	1
6	----	NUT, HEX SLFLKG 7/8-14 GRC	1
7	----	WIPER, 1-1/4 ROD	1
8	----	WEAR RING, 1-1/4 ROD	1
9	----	U-CUP, 1-1/4 ROD	1
10	----	BACK-UP RING, CAP	1
11	----	O-RING, CAP	1
12	----	O-RING, PISTON	1
13	----	O-RING, PISTON	1
14	----	SEAL, 2-1/2 PISTON	1
15	----	WEAR RING, 2-1/2 PISTON	1
16	----	PLUG, O-RING 9/16-18	2
17	171081	SEAL KIT, 2-1/2" BORE CYL (NOT SHOWN) (INCL. ITEMS 7 - 15)	

Electrical

Electrical Assembly W/LED Lights

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 6-1: Electrical Assembly W/LED Lights (1 of 2)

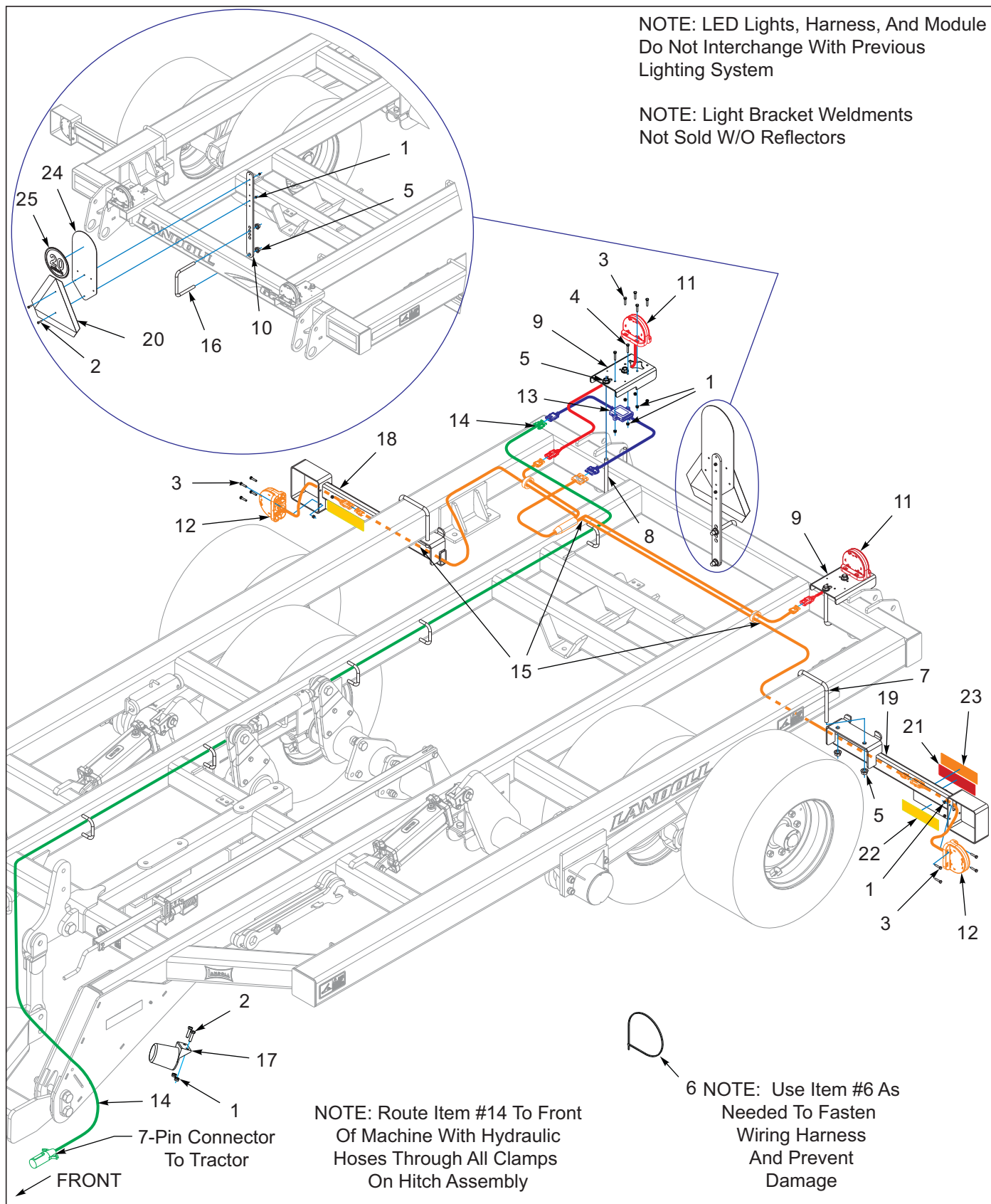


Figure 6-2: Electrical Assembly W/LED Lights (2 of 2)

Electrical Assembly W/LED Lights

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	194695	LIGHT KIT	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	22
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1" GR5	4
3	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	16
4	1-654-010047-08	SCREW, HEX HEAD CAP 1/4-20 X 1-1/2 GR5	2
5	100827	NUT, FLANGE HEAD SERRATED 5/8-11	6
6	105874	TIE SELF LOCKING 19"	15
7	141269	U-BOLT, WING STABILIZER	2
8	157648	U-BOLT	2
9	164138	MOUNT, TAIL LIGHT	2
10	164142	BRACKET MOUNTING, SMV	1
11	174435	LAMP, AG RED SINGLE LED	2
12	174436	LAMP, AG AMBER SINGLE LED	2
13	174437	MODULE, AG FLASHER CONTROL	1
14	174438	HARNESS, MAIN WARNING LIGHTS	1
15	174439	HARNESS, REAR WARNING LIGHTS	1
16	2-102-010032	U-BOLT, 5/8 X 5-11/16 X 5-1/2	1
17	2-368-010287	HARNESS, STOR-AWAY (SEE PAGE 2-1)	1
18	156970	BRACKET, LIGHT RH NC W/ REF (21'-29') (ITEMS 21-23)	1
18	194691	BRACKET, LIGHT RH WC W/ REF (30'-36') (ITEMS 21-23)	1
19	156971	BRACKET, LIGHT LH NC W/ REF (21'-29') (ITEMS 21-23)	1
19	194692	BRACKET, LIGHT LH WC W/ REF (30'-36') (ITEMS 21-23)	1
20	70260977	SMV EMBLEM	1
21	528933	REFLECTOR, RED	2
22	528934	REFLECTOR, YELLOW	2
23	528938	STRIPE, ORANGE	2
24	224590	MOUNT, SIS DECAL	1
25	224589	DECAL, SIS 20 MILE/H	1

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Decals

Decals

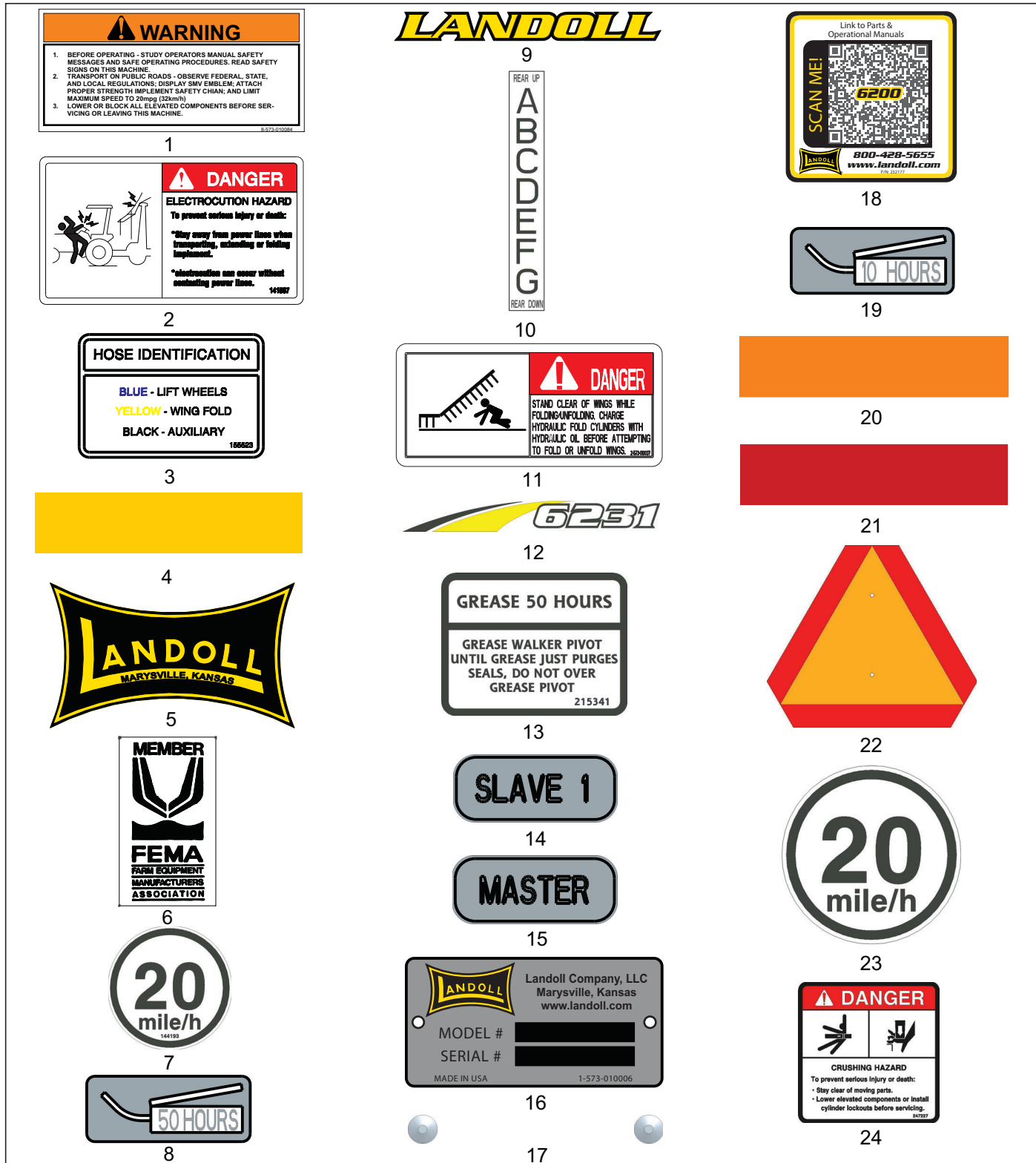
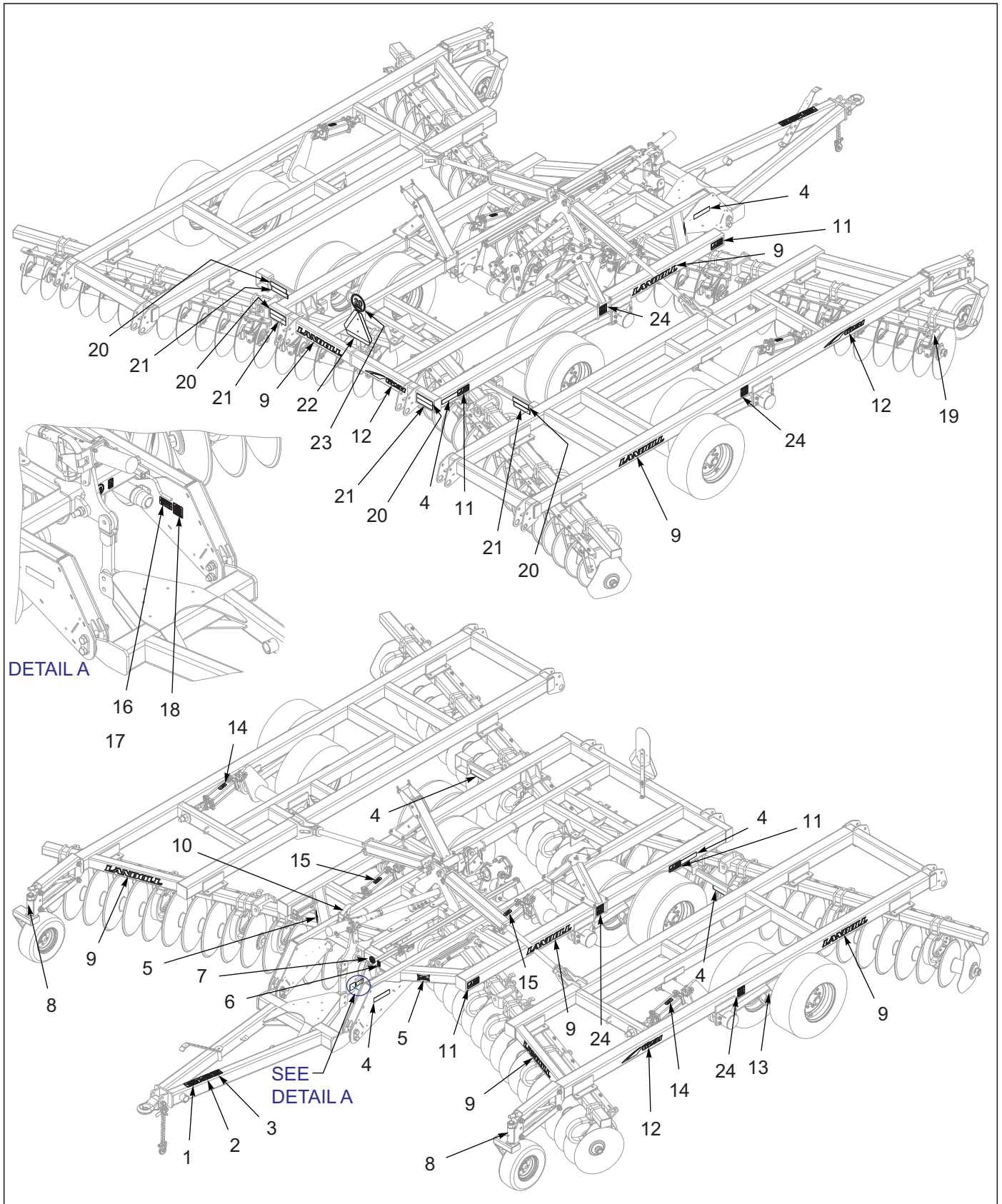


Figure 7-1: Decals (1 of 2)



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	528934	REFLECTOR - YELLOW	4
5	141259	DECAL, LANDOLL, YELLOW	2
6	2-573-010198	DECAL, MEMBER FEMA	1
7	144193	DECAL, SIS 20 MPH	1
8	2-573-010330-03	DECAL, LUBRICATION 50 HOURS	2
9	141260	DECAL, LANDOLL	7
10	141263	DECAL, LEVEL INDICATOR	1
11	2-573-010037	DECAL, DANGER, WING	4
12	192839	DECAL, MODEL 6231	3
13	215341	DECAL, GREASE WALKER	4
14	2-573-010149	DECAL SLAVE	2
15	2-573-010150	DECAL MASTER	2
16	1-573-010006	PLACARD, NAME	1
17	156010	RIVET, BLIND .156X1/2 GRIP	2
18	232177	DECAL, QR CODE 6200 SERIES	1
19	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
20	528938	STRIPE, ORANGE (SEE PAGE 6-1)	4
21	528933	REFLECTOR - RED (SEE PAGE 6-1)	4
22	70260977	SMV EMBLEM	1
23	224589	DECAL, SIS 20 MILE/H	1
24	247227	DECAL, DANGER CRUSHING	4

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Attachments

3 Row Coil Tine Harrow Assembly 6231-21-36

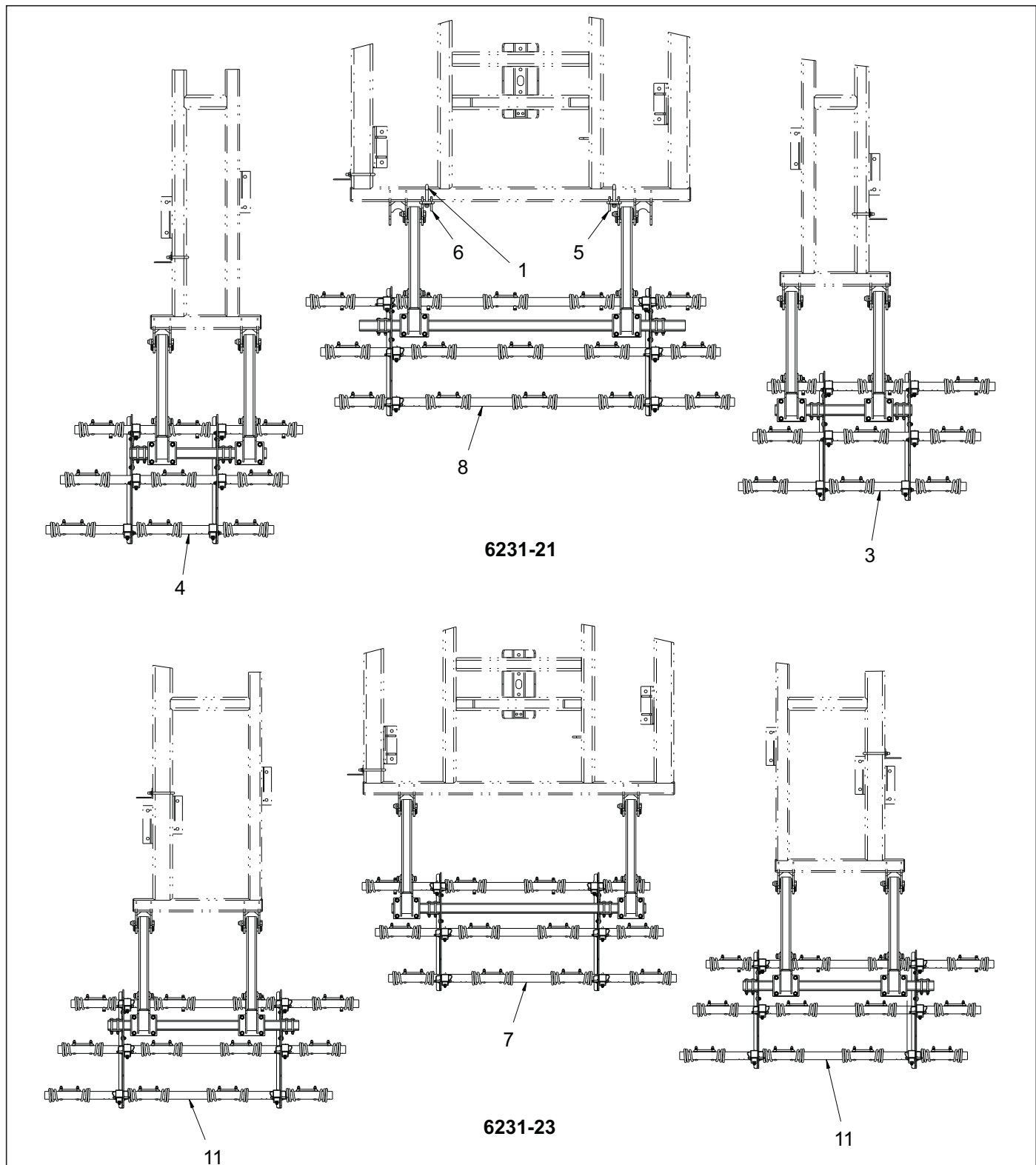
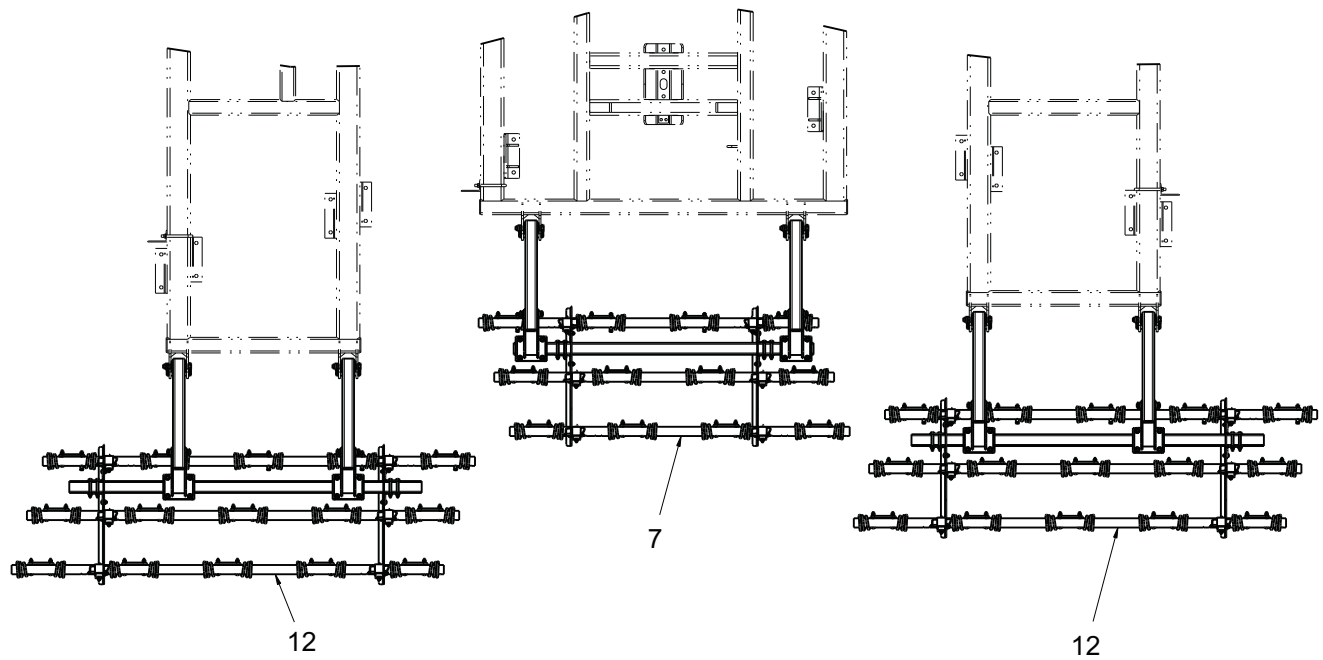
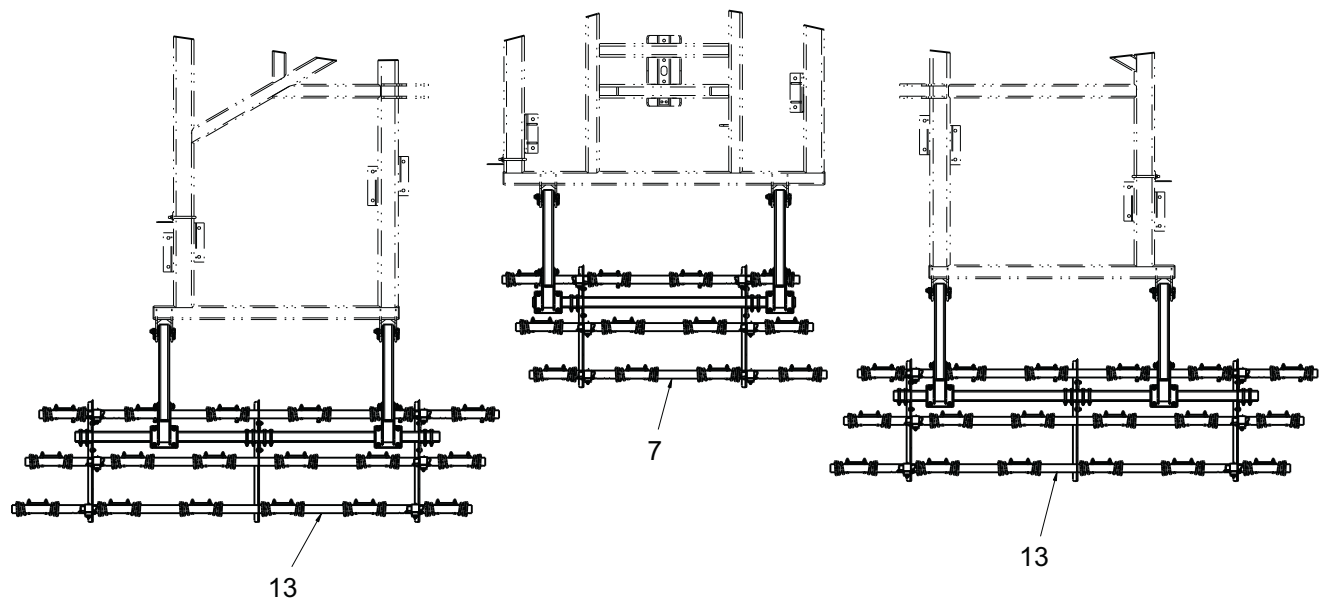


Figure 8-1: 3 Row Coil Tine Harrow Assembly 6231-21-23



6231-26



6231-29

Figure 8-2: 3 Row Coil Tine Harrow Assembly 6231-26-29

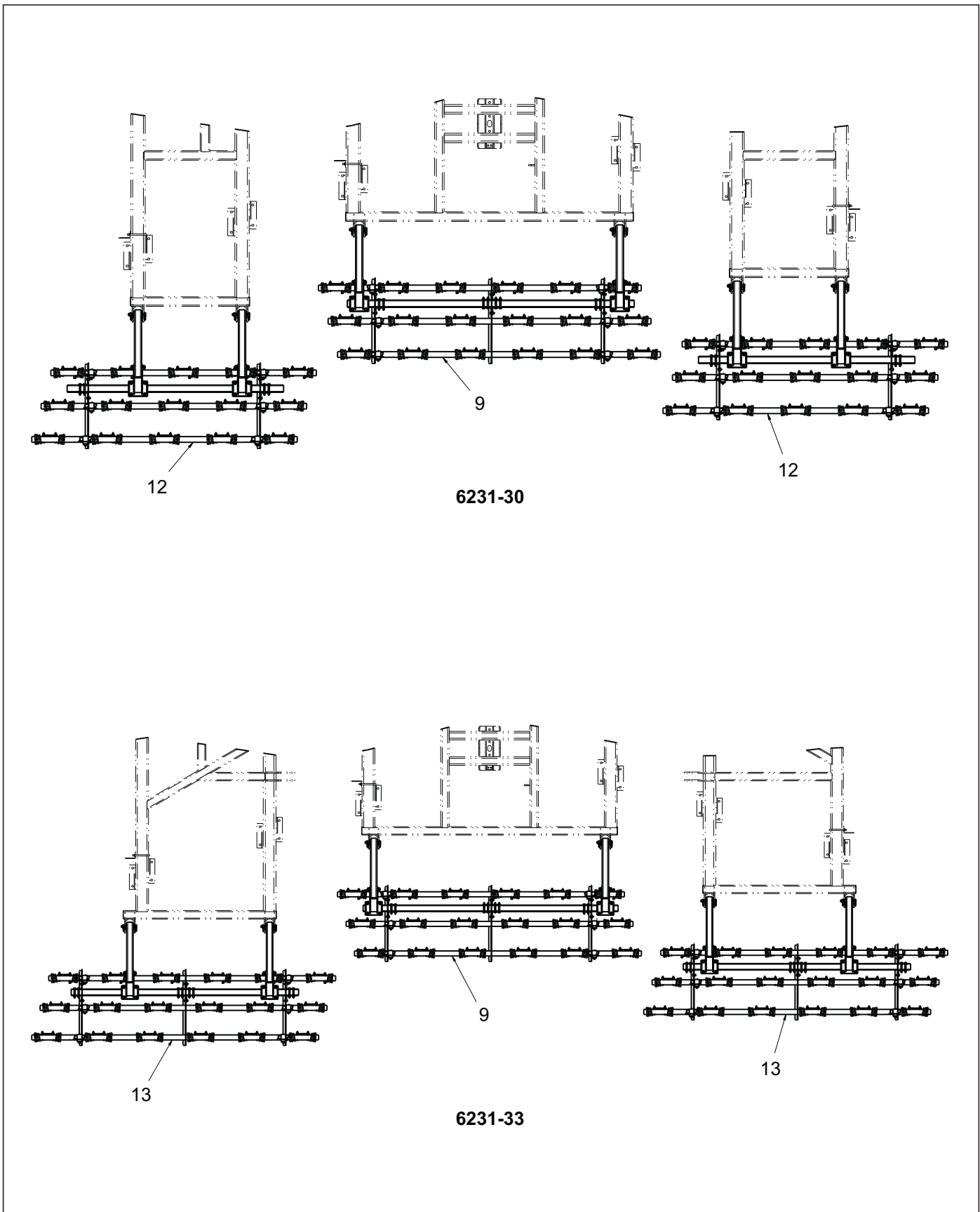
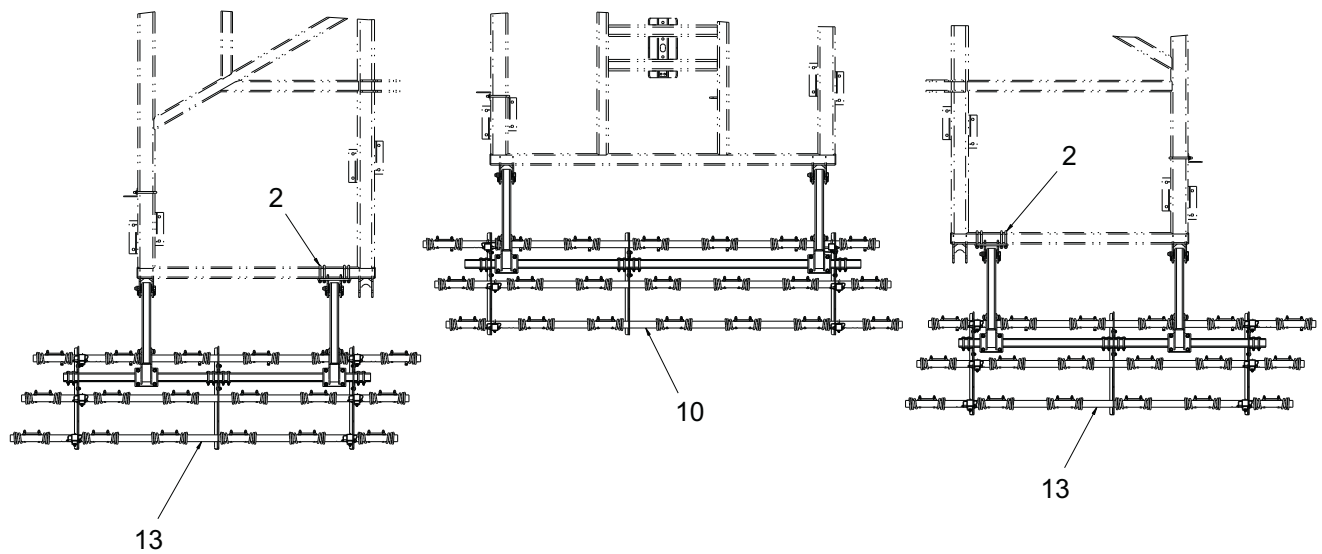


Figure 8-3: 3 Row Coil Tine Harrow Assembly 6231-30-33



6231-36

Figure 8-4: 3 Row Coil Tine Harrow Assembly 6231-36

3 Row Coil Tine Harrow Assembly 6231-21-36

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	195615	3 ROW CT HARROW ASSEMBLY (21')	*						
--	195616	3 ROW CT HARROW ASSEMBLY (23')		*					
--	195617	3 ROW CT HARROW ASSEMBLY (26')			*				
--	195618	3 ROW CT HARROW ASSEMBLY (29')				*			
--	195619	3 ROW CT HARROW ASSEMBLY (30')					*		
--	195620	3 ROW CT HARROW ASSEMBLY (33')						*	
--	195621	3 ROW CT HARROW ASSEMBLY (36')							*
1	111392	U-BOLT, GAUGE WHEEL 1550	2	--	--	--	--	--	--
2	180164	ASSY, MOUNT 6" (SEE PAGE 8-17)	--	--	--	--	--	--	2
3	195660	3 TINE HARROW ASSEMBLY, RH (SEE PAGE 8-7)	1	--	--	--	--	--	--
4	195661	3 TINE HARROW ASSEMBLY, LH (SEE PAGE 8-7)	1	--	--	--	--	--	--
5	195650	MOUNT, COIL TINE RIGHT	1	--	--	--	--	--	--
6	195651	MOUNT, COIL TINE LEFT	1	--	--	--	--	--	--
7	195658	4 TINE HARROW ASSEMBLY, CENTER (SEE PAGE 8-9)	--	1	1	1	--	--	--
8	157120	5 TINE HARROW ASSEMBLY, CENTER (SEE PAGE 8-9)	1	--	--	--	--	--	--
9	180153	6 TINE HARROW ASSEMBLY, CENTER (SEE PAGE 8-9)	--	--	--	--	1	1	--
10	157123	7 TINE HARROW ASSEMBLY, CENTER (SEE PAGE 8-9)	--	--	--	--	--	--	1
11	155954	4 TINE HARROW ASSEMBLY (SEE PAGE 8-11)	--	2	--	--	--	--	--
12	155998	5 TINE HARROW ASSEMBLY (SEE PAGE 8-11)	--	--	2	--	2	--	--
13	155803	6 TINE HARROW ASSEMBLY (SEE PAGE 8-11)	--	--	--	2	--	2	2

[illegible]

3 Row CT Harrow Assembly

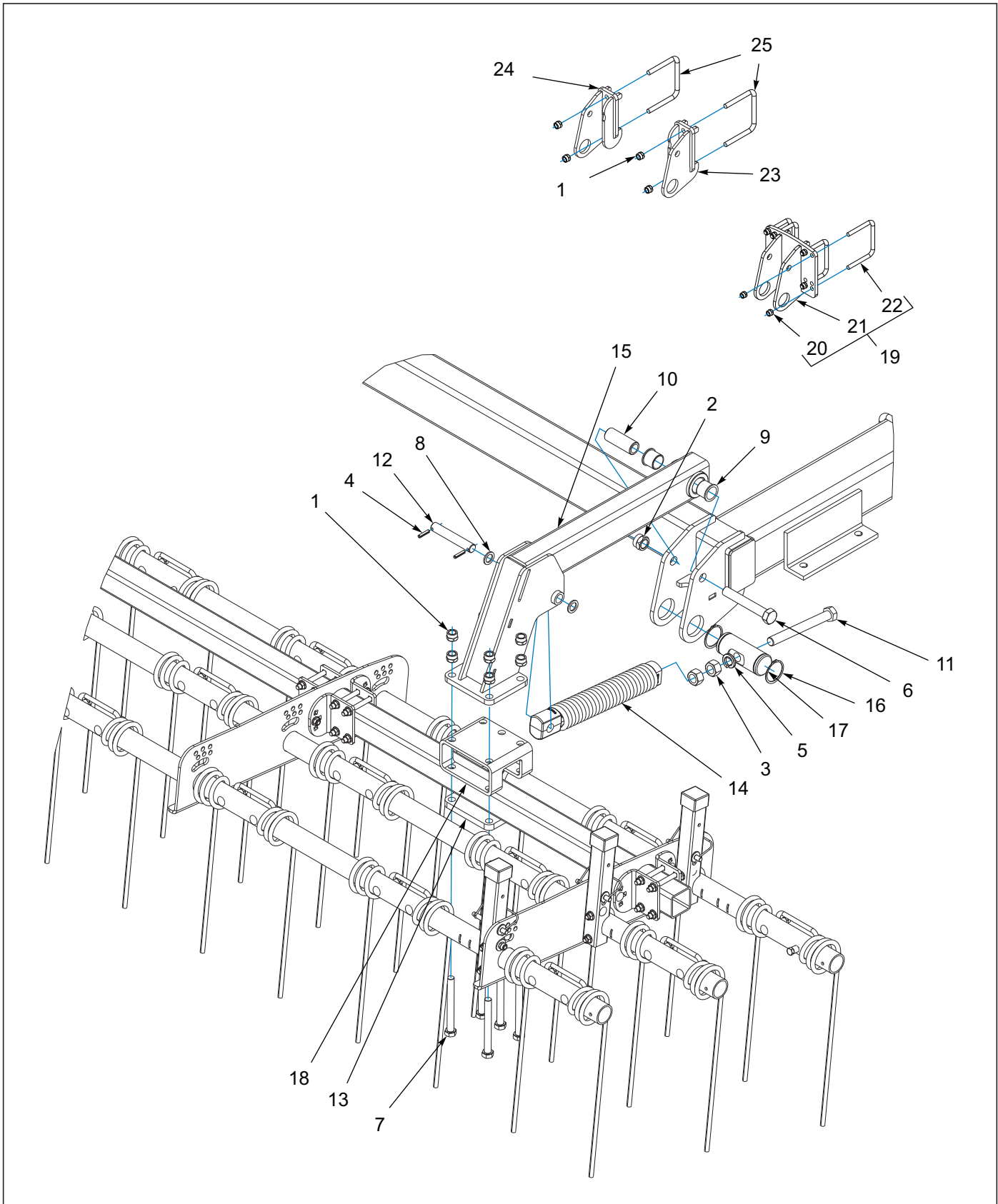


Figure 8-5: 3 Row CT Harrow Assembly

3 Row CT Harrow Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	195615	3 ROW CT HARROW, 6231-21 ASSY	*						
--	195616	3 ROW CT HARROW, 6231-23 ASSY		*					
--	195617	3 ROW CT HARROW, 6231-26 ASSY			*				
--	195618	3 ROW CT HARROW, 6231-29 ASSY				*			
--	195619	3 ROW CT HARROW, 6231-30 ASSY					*		
--	195620	3 ROW CT HARROW, 6231-33 ASSY						*	
--	195621	3 ROW CT HARROW, 6231-36 ASSY							*
1	1-512-010005-15	NUT,HEX SLFLKG, 3/4-10 UNC, GRB	64	60	60	60	60	60	60
2	1-512-010005-19	NUT,HEX SLFLKG, 1-8 UNC, GRB	6	6	6	6	6	6	6
3	1-512-010007-14	NUT,HEX 1-8 UNC, GR2	12	12	12	12	12	12	12
4	1-647-010004236	ROLL PIN, SLTD, 5/16 X 1-1/2	12	12	12	12	12	12	12
5	1-861-010034-21	WASHER,LKG, HLCL SPR 1	6	6	6	6	6	6	6
6	100829	SCREW HEX 1-8 UNC X 6-1/2 GR5	6	6	6	6	6	6	6
7	102209	SCREW,HEX 3/4-10UNC X 7 GR8	30	30	30	30	30	30	30
8	117957	MACHINERY BUSHING, ZINC PLATED	12	12	12	12	12	12	12
9	140599	BEARING, FLANGE 1-1/2	12	12	12	12	12	12	12
10	152209	BUSHING, PIVOT 1-1/2	6	6	6	6	6	6	6
11	152210	BOLT,SPRING ADJ 1 X 9	6	6	6	6	6	6	6
12	154392	PIN, PIVOT	6	6	6	6	6	6	6
13	154748P	PLATE, GANGBAR MOUNT	6	6	6	6	6	6	6
14	158795	SPRING ASSY, 17"	6	6	6	6	6	6	6
15	158847	ARM REEL	6	6	6	6	6	6	6
16	158896	SNAP RING, 2-1/2 SHAFT	12	12	12	12	12	12	12
17	158897	PIN, ADJUSTMENT W/SNAP RING	6	6	6	6	6	6	6
18	180152	TUBE, CLAMP	6	6	6	6	6	6	6
19	180164	ASSY, MOUNT 6" (ITEMS 20-22)	--	--	--	--	--	--	2
20	1-512-010005-13	NUT, HEX SLFLKG, 5/8-11 UNC GRB	--	--	--	--	--	--	16
21	180161	MOUNT, COIL TINE	--	--	--	--	--	--	2
22	2-102-010032	U-BOLT, CENTER SHANK MT	--	--	--	--	--	--	8
23	195650	MOUNT WLDMT, COIL TINE RIGHT	1	--	--	--	--	--	--
24	195651	MOUNT WLDMT, COIL TINE LEFT	1	--	--	--	--	--	--
25	111392	U-BOLT, GAUGE WHEEL 1550	2	--	--	--	--	--	--

Harrow Tine Assembly Center Frame

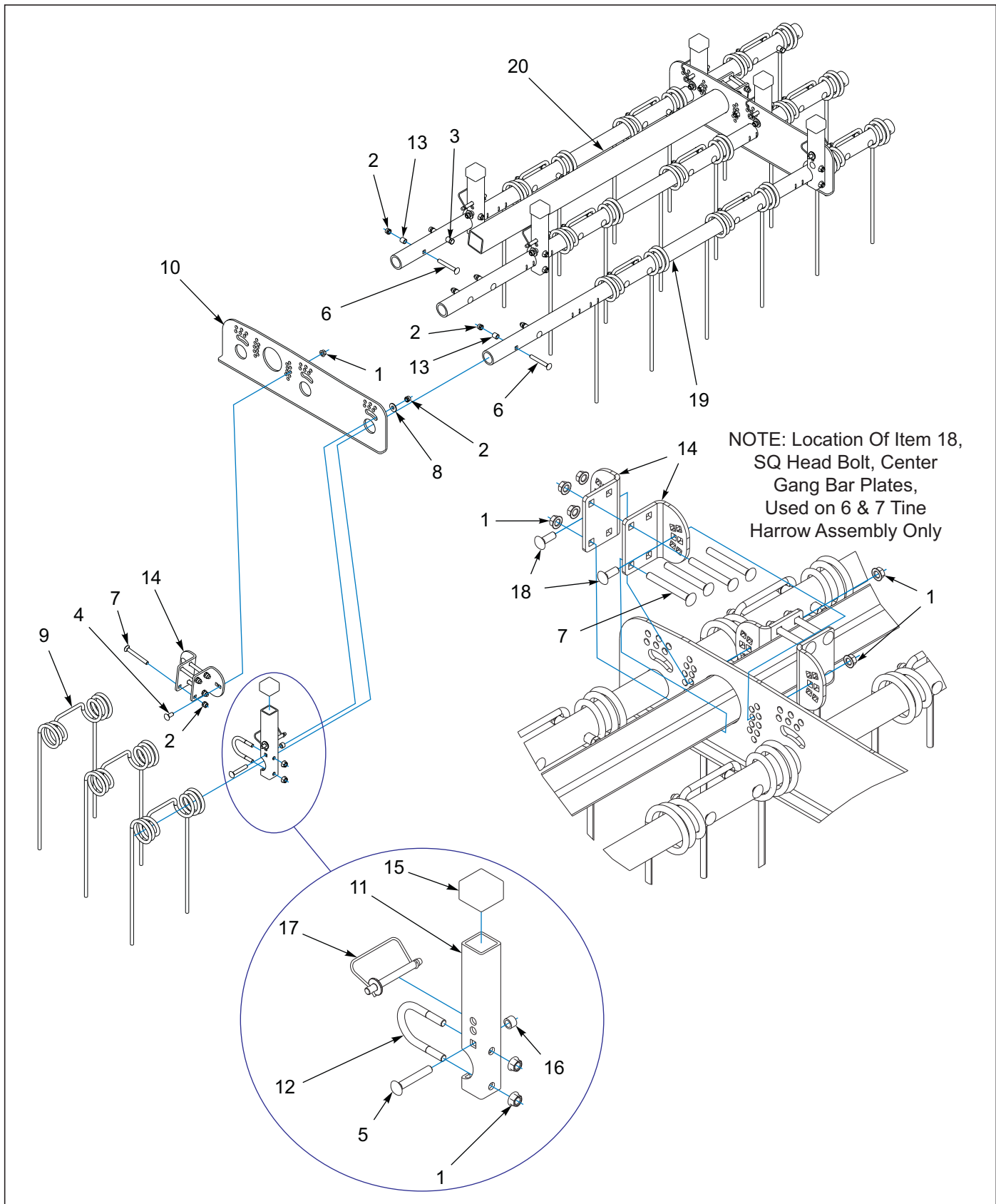


Figure 8-6: Harrow Tine Assembly Center Frame

Harrow Tine Assembly Center Frame

ITEM	PART NUMBER	DESCRIPTION	QTY.			
--	195658	HARROW ASSY, 4 TINE	*			
--	157120	5 TINE HARROW CENTER ASSY		*		
--	180153	ASSY, 6 TINE HARROW			*	
--	157123	7 TINE HARROW CENTER ASSY				*
1	1-510-010003-09	NUT, FLANGE HD SERRATED 1/2-13	16	24	34	34
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	38	36	42	48
3	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	4	5	6	7
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	4	4	4	4
5	1-654-010070-11	SCREW, RD HEAD SQ NECK 1/2-13 X 3-1/2	6	6	6	6
6	1-654-010070-13	SCREW, RD HEAD SQ NECK 1/2-13 X 4	20	25	30	35
7	1-654-010070-14	SCREW, RD HEAD SQ NECK 1/2-13 X 4-1/2	8	8	16	16
8	1-861-010032-15	WASHER, FLAT 1/2W	6	6	6	6
9	154532	TINE, HARROW SPRING	12	15	18	21
10	154993	PLATE, GANG BAR	2	2	3	3
11	154994	TUBE, ANGLE ADJUST	6	6	6	6
12	154995	U-BOLT, 1/2	6	6	6	6
13	154997	BUSHING, TINE RETAINER	28	35	42	49
14	154998	PLATE, ANGLE ADJUSTMENT	4	4	8	8
15	155927	CAP, TUBE 1.95 X 1.5	6	6	6	6
16	155956	BUSHING, ANGLE ADJUSTMENT	6	6	6	6
17	155971	PIN, SPRING CLIP	6	6	6	6
18	1-654-010070-03	SCREW, RD HEAD SQ 1/2-13 X 1-1/2 (USED W/ CENTER GANG BAR PLATES)	--	--	2	2
19	195243	GANG BAR, 4 TINE 87-1/4"	3	--	--	--
19	195244	GANG BAR, 5 TINE 111"	--	3	--	--
19	195274	GANG BAR, 6 TINE 135"	--	--	3	--
19	195282	GANG BAR, 7 TINE 159"	--	--	--	3
20	180156	TUBE, RIDE BAR 78"	1	--	--	--
20	156778	TUBE, RIDE BAR 90.5"	--	1	--	--
20	180155	TUBE, RIDE BAR 120"	--	--	1	--
20	156779	TUBE, RIDE BAR 138"	--	--	--	1

Harrow Tine Assembly Wing Frame

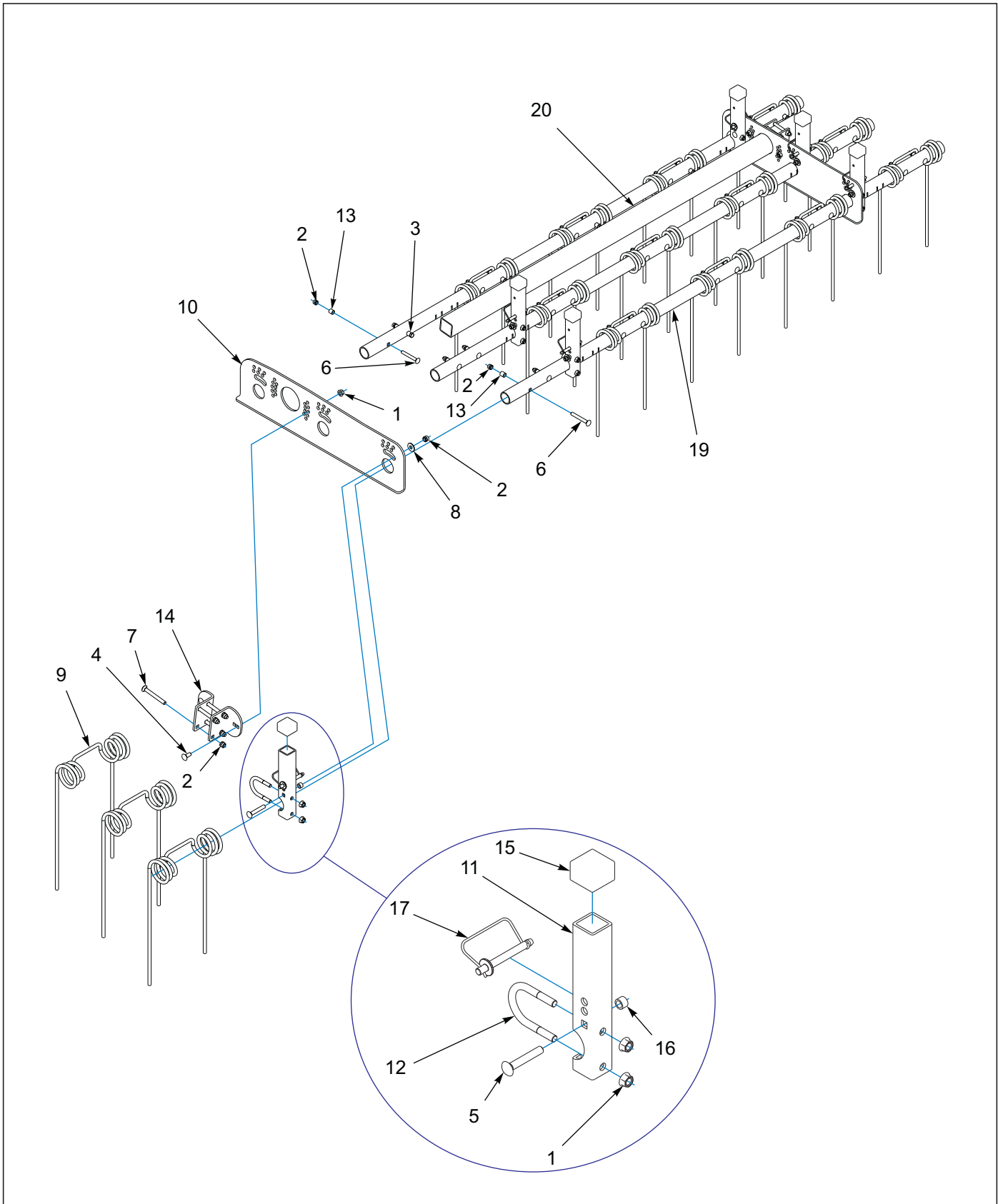


Figure 8-7: Harrow Tine Assembly Wing Frame

Harrow Tine Assembly Wing Frame

ITEM	PART NUMBER	DESCRIPTION	QTY.				
--	195660	HARROW ASSY, 3 TINE RH	*				
--	195661	HARROW ASSY, 3 TINE LH		*			
--	155954	HARROW ASSY 4 TINE			*		
--	155998	HARROW 5 TINE SECTION				*	
--	155803	HARROW ASSY 6 TINE					*
1	1-510-010003-09	NUT, FLANGE HD SERRATED 1/2-13	16	16	16	24	34
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	32	32	38	36	42
3	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	3	3	4	5	6
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	4	4	4	4	4
5	1-654-010070-11	SCREW, RD HEAD SQ NECK 1/2-13 X 3-1/2	6	6	6	6	6
6	1-654-010070-13	SCREW, RD HEAD SQ NECK 1/2-13 X 4	15	15	20	25	30
7	1-654-010070-14	SCREW, RD HEAD SQ NECK 1/2-13 X 4-1/2	8	8	8	8	16
8	1-861-010032-15	WASHER, FLAT 1/2W	6	6	6	6	6
9	154532	TINE, HARROW SPRING	9	9	12	15	18
10	154993	PLATE, GANG BAR	2	2	2	2	3
11	154994	TUBE, ANGLE ADJUST	6	6	6	6	6
12	154995	U-BOLT, 1/2	6	6	6	6	6
13	154997	BUSHING, TINE RETAINER	21	21	28	35	42
14	154998	PLATE, ANGLE ADJUSTMENT	4	4	4	4	8
15	155927	CAP, TUBE 1.95 X 1.5	6	6	6	6	6
16	155956	BUSHING, ANGLE ADJUSTMENT	6	6	6	6	6
17	155971	PIN, SPRING CLIP	6	6	6	6	6
18	1-654-010070-03	SCREW, RD HEAD SQ 1/2-13 X 1-1/2	--	--	--	2	2
		(NOT SHOWN)					
		(USED W/ CENTER GANG BAR PLATES)					
19	195241	GANG BAR, 3 TINE 63-1/4"	3	3	--	--	--
19	195243	GANG BAR, 4 TINE 87-1/4"	--	--	3	--	--
19	195244	GANG BAR, 5 TINE 111"	--	--	--	3	--
19	195274	GANG BAR, 6 TINE 135"	--	--	--	--	3
20	156776	TUBE, RIDE BAR 38"	1	1	--	--	--
20	156777	TUBE, RIDE BAR 57.875"	--	--	1	--	--
20	156778	TUBE, RIDE BAR 90.5"	--	--	--	1	--
20	155005	TUBE, SQUARE 3 X 3/16 X 107	--	--	--	--	1

Conditioner Reel Assembly 6231-21-36

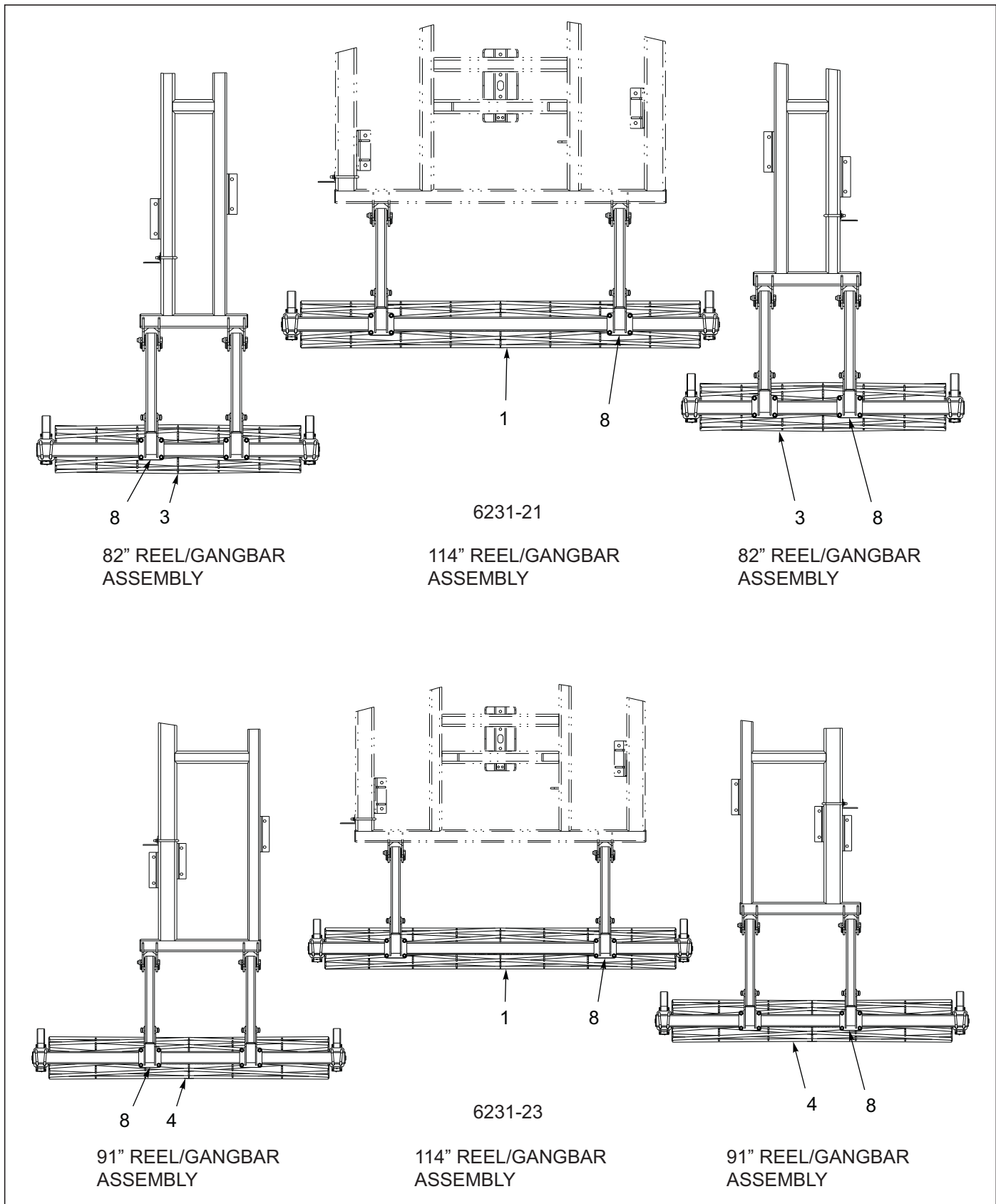


Figure 8-8: Conditioner Reel Assembly 6231-21-23

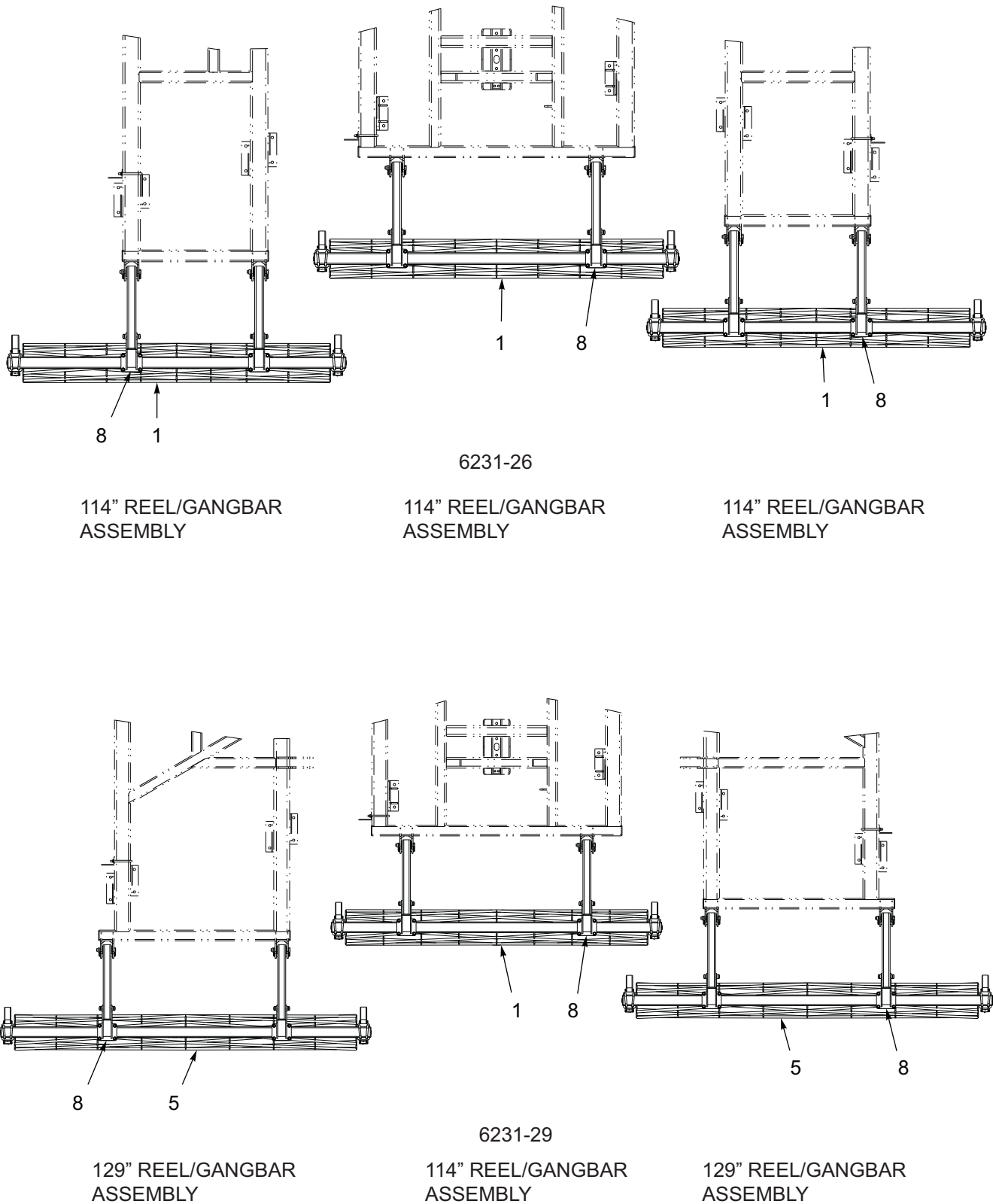


Figure 8-9: Conditioner Reel Assembly 6231-26-29

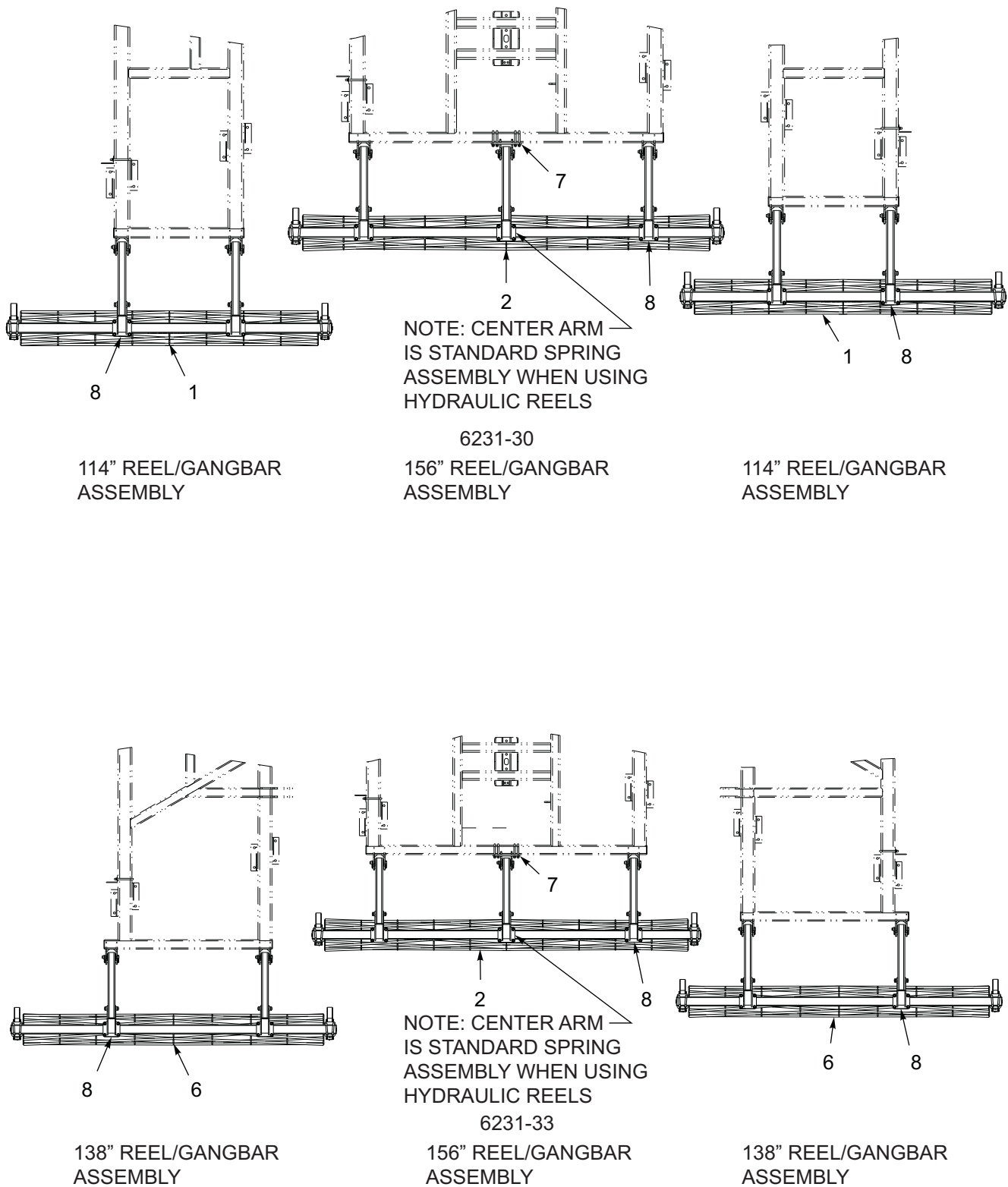


Figure 8-10: Conditioner Reel Assembly 6231-30-33

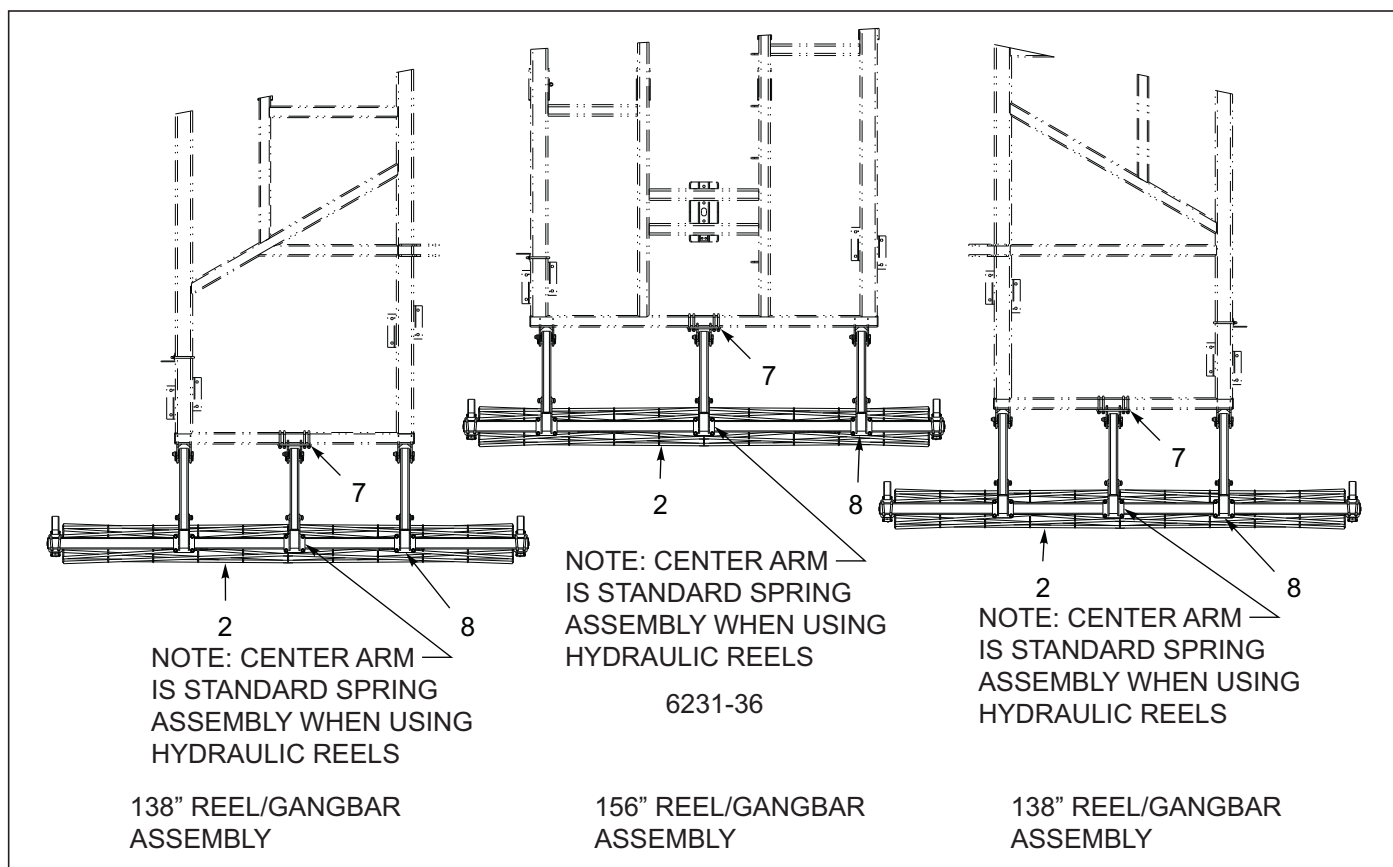


Figure 8-11: Conditioner Reel Assembly 6231-36

Conditioner Reel Assembly 6231-21-36

ITEM	PART NO.	DESCRIPTION	QTY.						
--	193590	CONDITIONER REEL, 6231-21	*						
--	193591	CONDITIONER REEL, 6231-23	*						
--	193592	CONDITIONER REEL, 6231-26	*						
--	193593	CONDITIONER REEL, 6231-29	*						
--	193594	CONDITIONER REEL, 6231-30	*						
--	193595	CONDITIONER REEL, 6231-33	*						
--	193596	CONDITIONER REEL, 6231-36	*						
1	154687	COND-REEL/GANGBAR ASSY 114"	1	1	3	1	2	--	--
2	165127	COND-REEL/GANGBAR ASSY 156"	--	--	--	--	1	1	3
3	154684	COND-REEL/GANGBAR ASSY 82"	2	--	--	--	--	--	--
4	154686	COND-REEL/GANGBAR ASSY 91"	--	2	--	--	--	--	--
5	156125	COND-REEL/GANGBAR ASSY 129"	--	--	--	2	--	--	--
6	201765	COND-REEL/GANGBAR ASSY 138"	--	--	--	--	--	2	--
7	180164	ASSY, MOUNT-6	--	--	--	--	1	1	3
8	----	REEL ARM ASSEMBLY-SPRING (SEE PAGE 8-17)	6	6	6	6	7	7	7
8	----	REEL ARM ASSEMBLY-HYDRAULIC (SEE PAGE 8-19)	6	6	6	6	6	6	6

(NOTE: FOR P/N'S 154687, 165127, 154684, 154686, 156125, & 201765 SEE PAGE 8-17)

Conditioner Reel Assembly

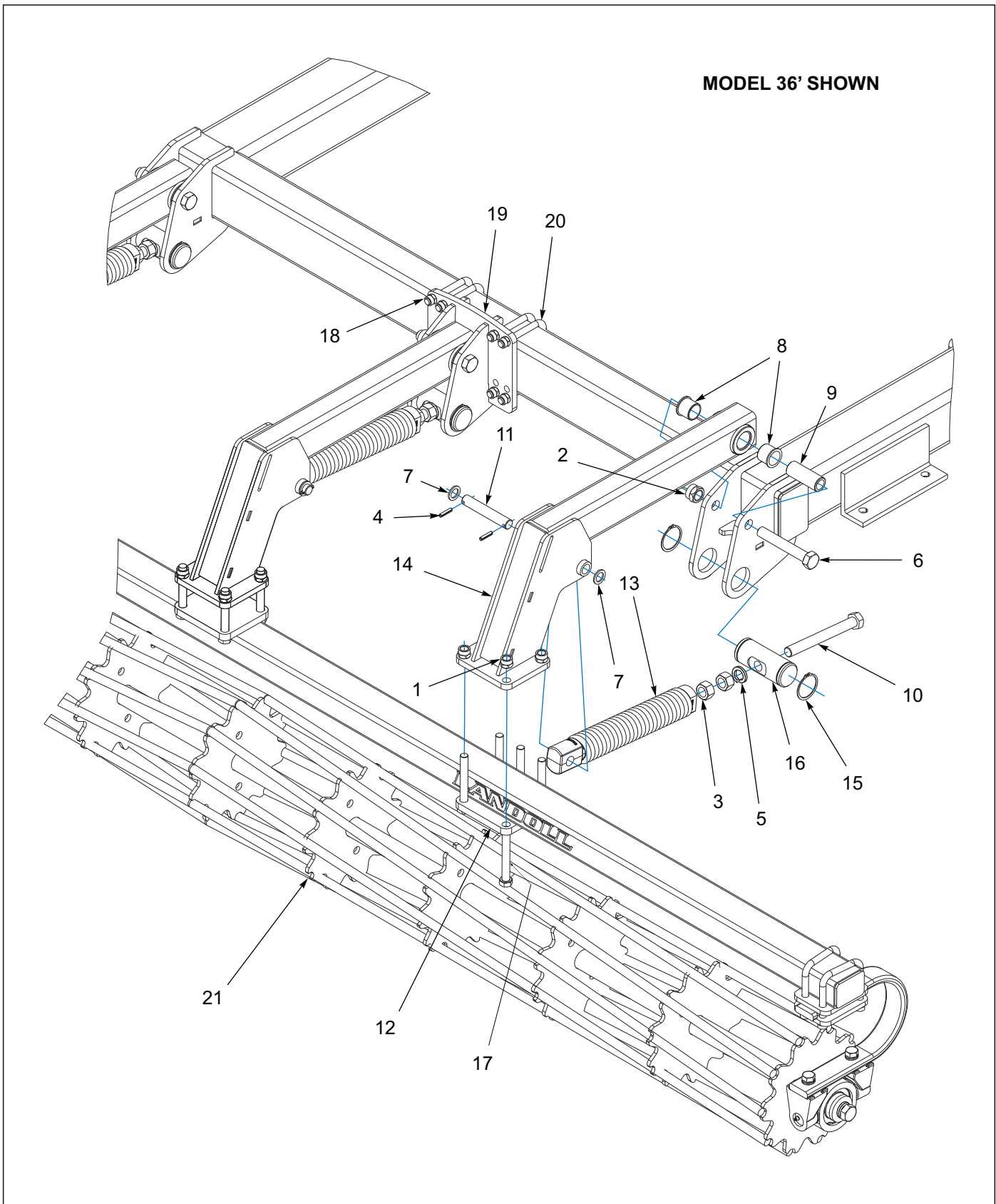


Figure 8-12: Conditioner Reel Assembly

Conditioner Reel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	193590	CONDITIONER REEL, 6231-21 ASSY	*	
--	193591	CONDITIONER REEL, 6231-23 ASSY	*	
--	193592	CONDITIONER REEL, 6231-26 ASSY	*	
--	193593	CONDITIONER REEL, 6231-29 ASSY	*	
--	193594	CONDITIONER REEL, 6231-30 ASSY		*
--	193595	CONDITIONER REEL, 6231-33 ASSY		*
--	193596	CONDITIONER REEL, 6231-36 ASSY		*
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10 (2 USED WITH 172884) (BEFORE 5-17-2023)	60	70
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC (2 USED WITH 172884) (AFTER 5-17-2023)	30	35
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6	7
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	12	14
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	12	14
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	6	7
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	6	7
7	117957	MACHINERY BUSHING,ZINC PLATED	12	14
8	140599	BEARING, FLANGE 1-1/2	12	14
9	152209	BUSHING, PIVOT 1-1/2	6	7
10	152210	BOLT, ADJ, 1 X 9	6	7
11	154392	PIN,PIVOT	6	7
12	154748P	PLATE, GANGBAR MOUNT	6	7
13	158795	SPRING ASSY, 17	6	7
14	158847	ARM, REEL	6	7
15	158896	SNAP RING, 2-1/2 SHAFT	12	14
16	158897	PIN, ADJUSTMENT	6	7
17	172884	SCREW HX CP,3/4-10X6 GR8ZP (BEFORE 5-17-2023)	30	35
17	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8 (AFTER 5-17-2023)	30	35
18	1-512-010005-13	NUT, HEX SLFLKG, 5/8-11 UNC GRB	8	8
19	180161	MOUNT, COIL TINE	1	1
20	2-102-010032	U-BOLT, CENTER SHANK MT	4	4
21	-----	CONDITIONER REEL/GANGBAR ASSEMBLY (SEE PAGE 8-21)	N/A	N/A

Conditioner Reel Assembly Hydraulic

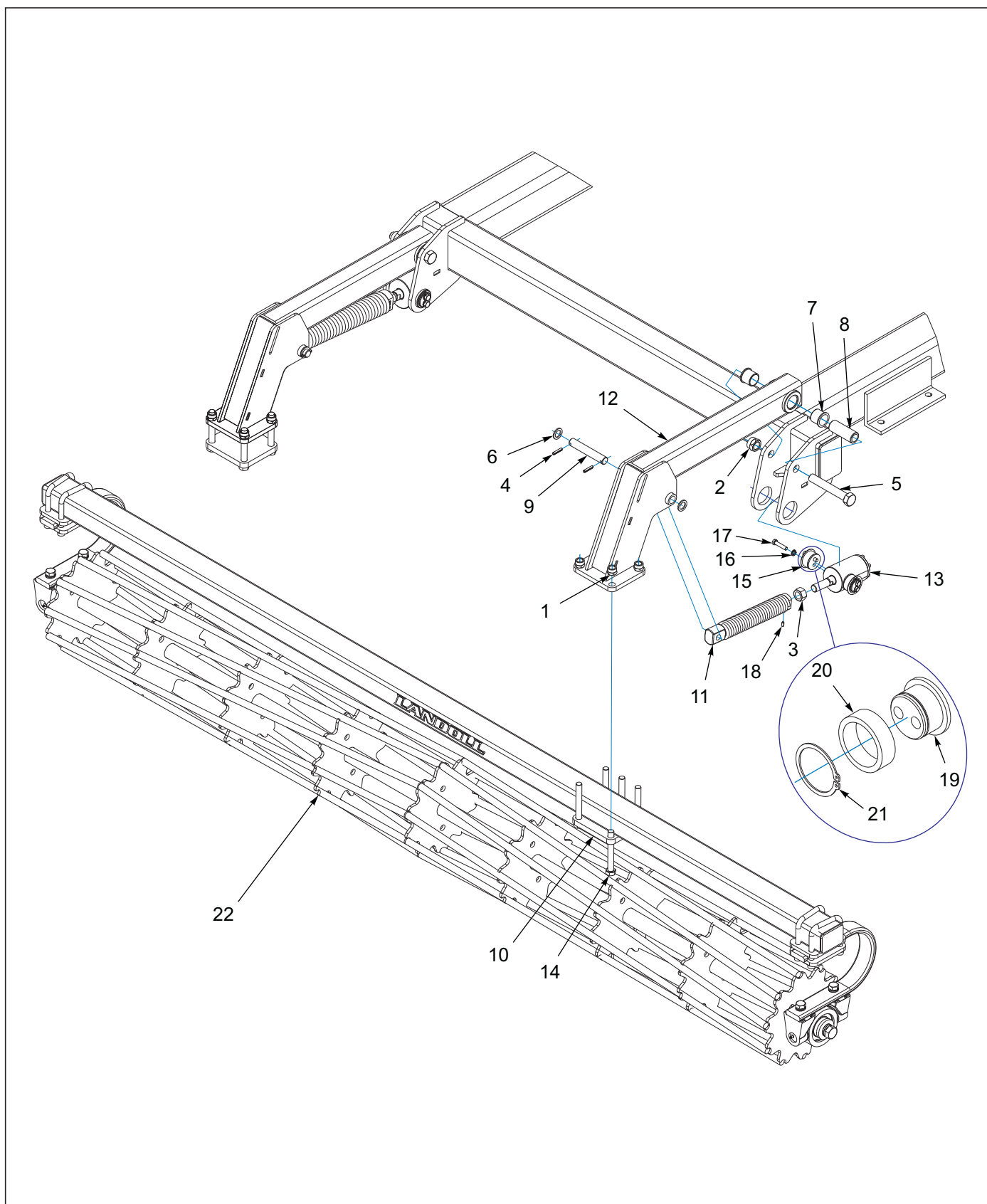


Figure 8-13: Conditioner Reel Assembly Hydraulic

Conditioner Reel Assembly Hydraulic

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	194652	HYD COND REEL 6231-21 ASSY	*	
--	194653	HYD COND REEL 6231-23 ASSY	*	
--	194654	HYD COND REEL 6231-26 ASSY	*	
--	194655	HYD COND REEL 6231-29 ASSY	*	
--	194656	HYD COND REEL 6231-30 ASSY		*
--	194657	HYD COND REEL 6231-33 ASSY		*
--	194658	HYD COND REEL 6231-36 ASSY		*
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10 (2 USED WITH 172884) (BEFORE 5-17-2023)	60	70
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC (2 USED WITH 172884) (AFTER 5-17-2023)	30	35
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6	7
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	12	14
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	12	14
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	12	14
5	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	6	7
6	117957	MACHINERY BUSHING,ZINC PLATED	12	14
7	140599	BEARING, FLANGE 1-1/2	12	14
8	152209	BUSHING, PIVOT 1-1/2	6	7
9	154392	PIN,PIVOT	6	7
10	154748P	PLATE, GANGBAR MOUNT	6	7
11	158795	SPRING ASSEMBLY, 17" (BEFORE 6-8-2017)	6	7
11	206652	SPRING ASSY 17" 1-1/8 THD (AFTER 6-8-2017)	6	7
12	158847	ARM, REEL	6	7
13	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6	7
13	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6	7
14	172884	SCREW HX CP,3/4-10X6 GR8ZP (BEFORE 5-17-2023)	30	35
14	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8 (AFTER 5-17-2023)	30	35
15	198320	ASSY, TRUNION MOUNT 1-1/4" (AFTER 2-21-2016) (INCLUDES ITEMS 19-21)	2	2
16	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2	2
17	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2	2
18	1P444	SET SCREW, 3/8-16 X 3/4 NYLON (AFTER 6-8-2017)	6	7
19	191924	TRUNION, CYLINDER	1	1
20	191925	TRUNION, BEARING	1	1
21	188530	SNAP RING, 2 SHAFT	1	1
22	-----	CONDITIONER REEL/GANGBAR ASSEMBLY (SEE PAGE 8-21)	N/A	N/A

Conditioner Reel/Gangbar Assembly

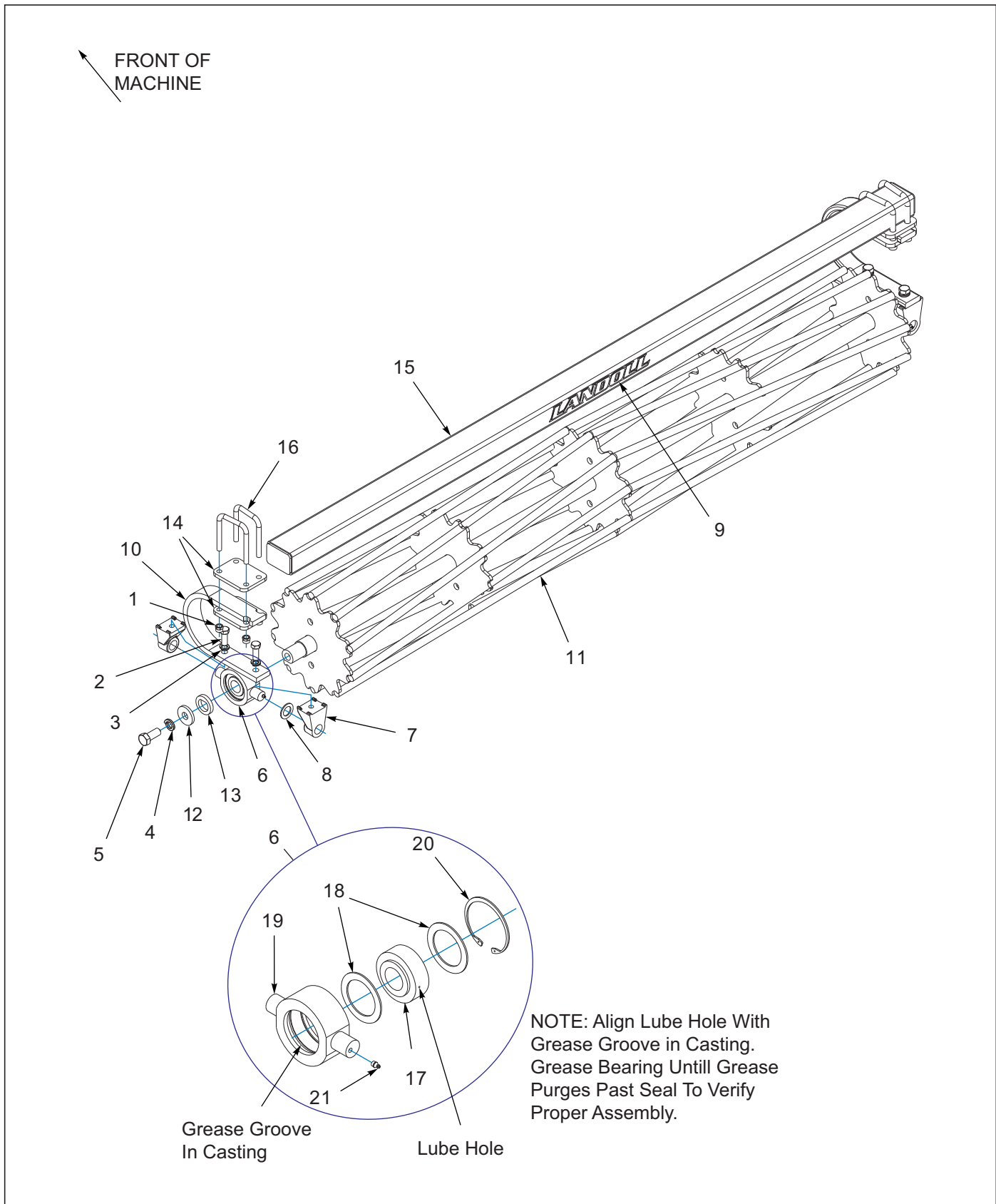


Figure 8-14: Conditioner Reel/Gangbar Assembly

Conditioner Reel/Gangbar Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.				
--	154686	COND-REEL/GANGBAR ASSY 91"	*				
--	154687	COND-REEL/GANGBAR ASSY 114"	*				
--	156125	COND-REEL/GANGBAR ASSY 129"	*				
--	201765	COND-REEL/GANGBAR ASSY 138"	*				
--	165127	COND-REEL/GANGBAR ASSY 156"	*				
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	8	8	8	8	8
2	1-654-010032-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR8	4	4	4	4	4
3	1-861-010034-17	WASHER, SPLIT LOCK 3/4	4	4	4	4	4
4	1-861-010034-21	WASHER, SPLIT LOCK 1"	2	2	2	2	2
5	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2	2	2	2	2
6	140477	BEARING, DISC 1.775 ID ASSEMBLY (INCLUDES ITEMS 17-21)	2	2	2	2	2
7	140479	MOUNT, TRUNNION BEARING	4	4	4	4	4
8	140480	WASHER, TRUNNION	2	2	2	2	2
9	148337	ATTACHMENT DECAL, LANDOLL	1	1	1	1	1
10	153716	SHANK, STRAIGHT 3/4 X 2-1/2	2	2	2	2	2
11	154691	CONDITIONER REEL, 91"	1	--	--	--	--
11	154692	CONDITIONER REEL, 114"	--	1	--	--	--
11	156124	CONDITIONER REEL, 129"	--	--	1	--	--
11	201766	CONDITIONER REEL WLDMT 138"	--	--	--	1	--
11	164378	CONDITIONER REEL, 156"	--	--	--	--	1
12	154185	WASHER, 3/8 THICK	2	2	2	2	2
13	154186	WASHER, FLAT TOP	2	2	2	2	2
14	154393	PLATE, SHANK MOUNT	4	4	4	4	4
15	154658	GANG BAR, 101" REEL 91"	1	--	--	--	--
15	154659	GANG BAR, 124" REEL 114"	--	1	--	--	--
15	155594	GANG BAR, 139" REEL 129"	--	--	1	--	--
15	201768	GANGBAR WLDMT, 148"-REEL-138"	--	--	--	1	--
15	165226	GANG BAR, 166" REEL 156"	--	--	--	--	1
16	6-102-010009	U-BOLT	4	4	4	4	4
17	140464	BEARING, DISC 1.775 ID	1	1	1	1	1
18	140473	WASHER, BEARING	2	2	2	2	2
19	140475	CASTING, TRUNNION	1	1	1	1	1
20	140476	INTERNAL RETAINING RING	1	1	1	1	1
21	5000	ZERK FITTING 1/8NPT	1	1	1	1	1

Reel Hydraulic Assembly 6231-21

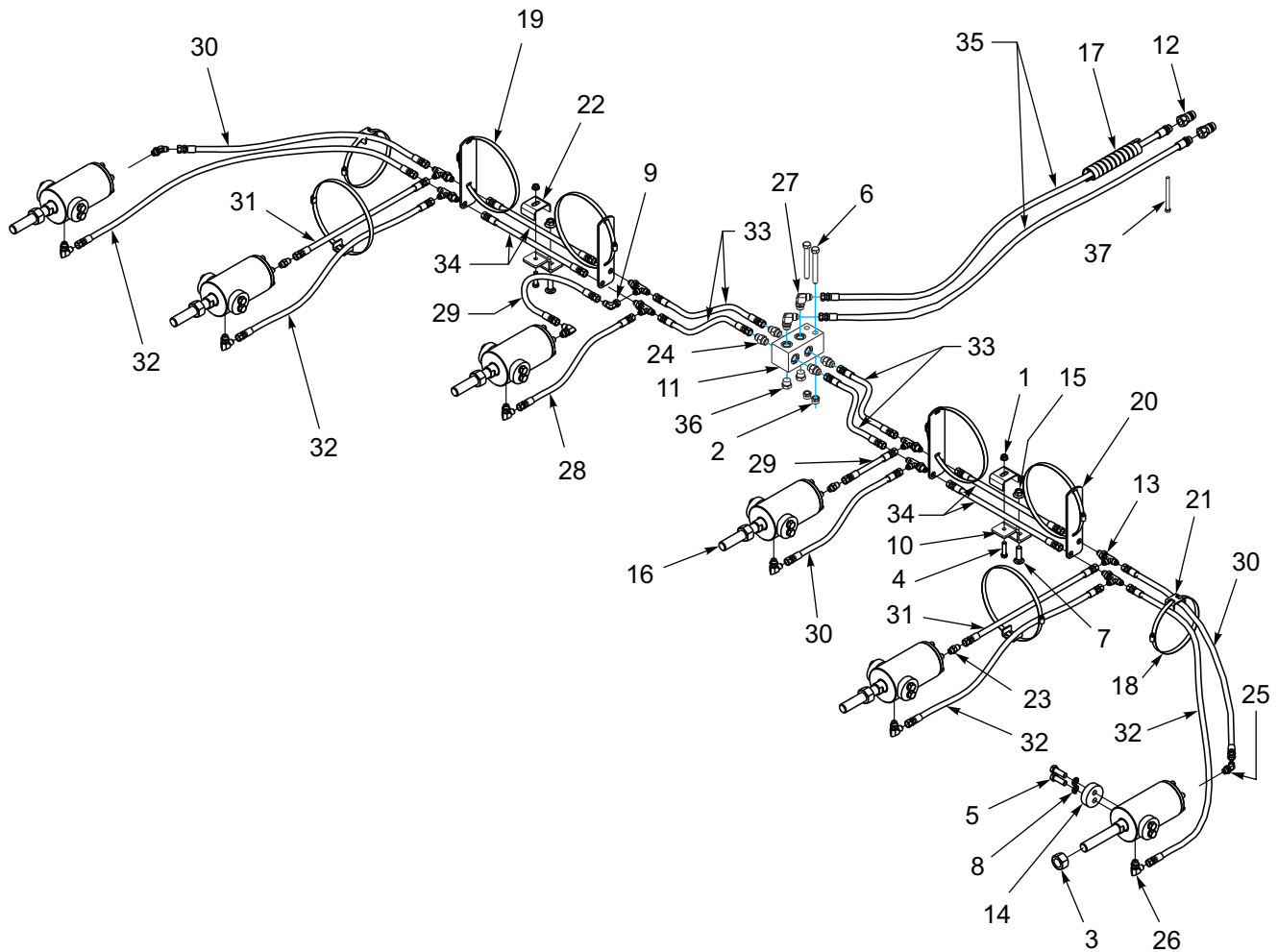


Figure 8-15: Reel Hydraulic Assembly 6231-21

Reel Hydraulic Assembly 6231-21

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	6
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	6
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2	24
6	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
7	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
8	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1
10	141275	BRACKET, HOSE CLAMP	2
11	2-474-010022	MANIFOLD HYDRAULIC, 6 HOSE (8 PORT)	1
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
14	198320	ASSY, TRUNION MOUNT 1-1/4"	12
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
16	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6
16	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6
17	172973	HOSE WRAP, RED	1
18	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
19	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8
20	172992	PLATE, BULKHEAD	4
21	174784	CLAMP HOSE	12
22	2-181-010001	HOSE CLAMP	5
23	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3
24	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
25	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
26	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7
27	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
28	7779-14	HOSE ASSY, 1/4 X 14", #6 JIC, FEMALE	1
29	195665	HOSE ASSY, 1/4 X 20", #6 JIC, FEMALE	2
30	176929	HOSE ASSY, 1/4 X 24", #6 JIC, FEMALE	3
31	195666	HOSE ASSY, 1/4 X 26", #6 JIC, FEMALE	2
32	195667	HOSE ASSY, 1/4 X 32", #6 JIC, FEMALE	4
33	172999	HOSE ASSY, 1/4 X 42", #6 JIC, FEMALE	4
34	71500165	HOSE ASSY, 1/4 X 46", #6 JIC, FEMALE	4
35	172972	HOSE ASSY, 3/8 X 330", #8 JIC, SWVL	2
36	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
37	173044	SCREW, ALL THREAD,3/8-16X4-1/2	1
38	199315	HYD REEL KIT, 6231-21 (NOT SHOWN) (ITEMS 1-35)	1

Reel Hydraulic Assembly 6231-23

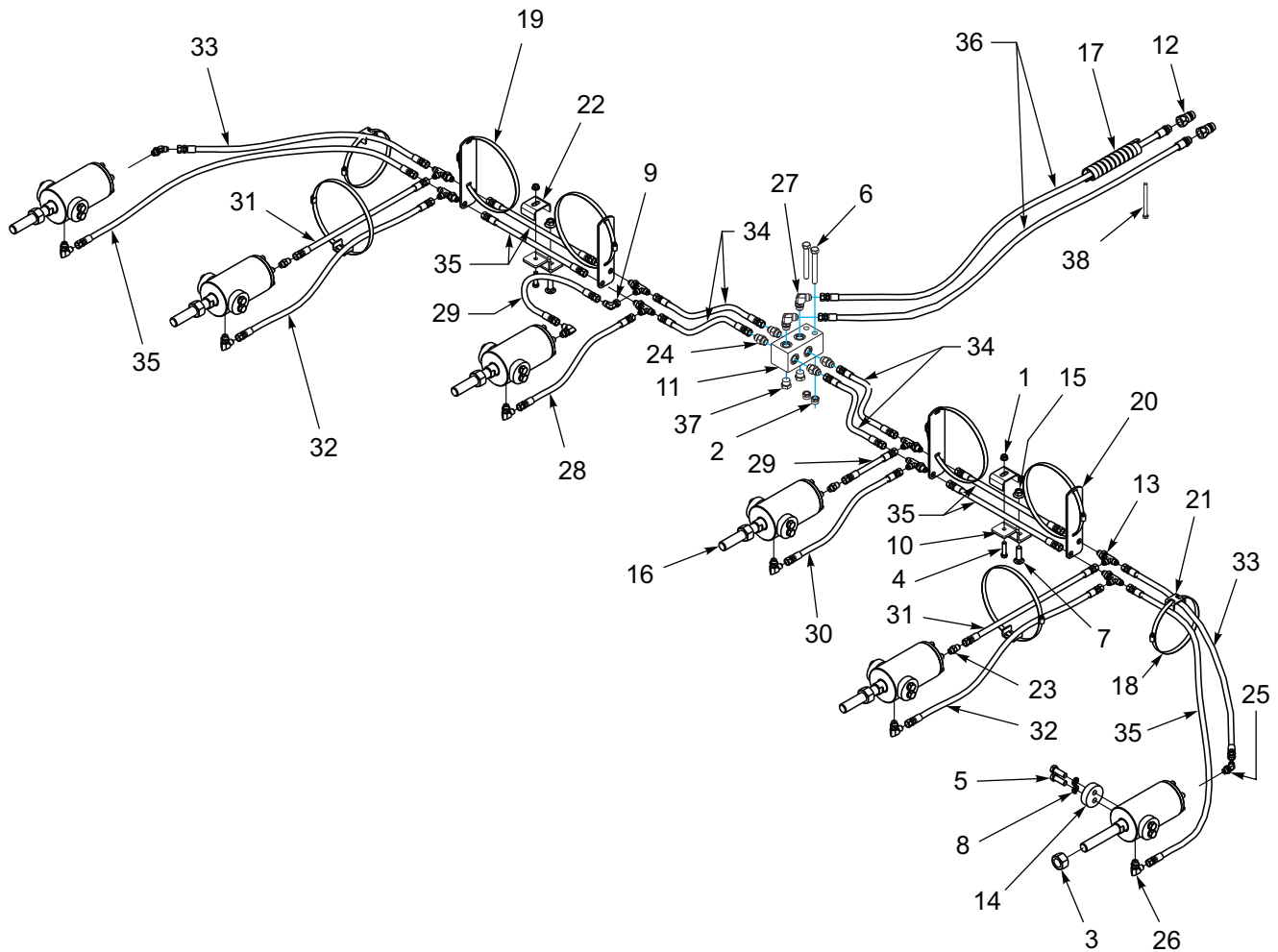


Figure 8-16: Reel Hydraulic Assembly 6231-23

Reel Hydraulic Assembly 6231-23

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	6
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	6
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2	24
6	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
7	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
8	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1
10	141275	BRACKET, HOSE CLAMP	2
11	2-474-010022	MANIFOLD HYDRAULIC, 6 HOSE (8 PORT)	1
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
14	198320	ASSY, TRUNION MOUNT 1-1/4" (AFTER 2-20-2016)	12
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
16	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6
16	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6
17	172973	HOSE WRAP, RED	1
18	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
19	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8
20	172992	PLATE, BULKHEAD	4
21	174784	CLAMP HOSE	12
22	2-181-010001	HOSE CLAMP	5
23	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3
24	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
25	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
26	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7
27	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
28	7779-14	HOSE ASSY, 1/4 X 14", #6 JIC, FEMALE	1
29	195665	HOSE ASSY, 1/4 X 20", #6 JIC, FEMALE	2
30	176929	HOSE ASSY, 1/4 X 24", #6 JIC, FEMALE	1
31	195666	HOSE ASSY, 1/4 X 26", #6 JIC, FEMALE	2
32	195667	HOSE ASSY, 1/4 X 32", #6 JIC, FEMALE	2
33	71509008	HOSE ASSY, 1/4 X 40", #6 JIC, FEMALE	2
34	172999	HOSE ASSY, 1/4 X 42", #6 JIC, FEMALE	4
35	71500165	HOSE ASSY, 1/4 X 46", #6 JIC, FEMALE	6
36	172972	HOSE ASSY, 3/8 X 330", #8 JIC, SWVL	2
37	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
38	173044	SCREW, ALL THREAD,3/8-16X4-1/2	1
39	199316	HYD REEL KIT, 6231-23 (NOT SHOWN) (ITEMS 1-36)	1

Reel Hydraulic Assembly 6231-26

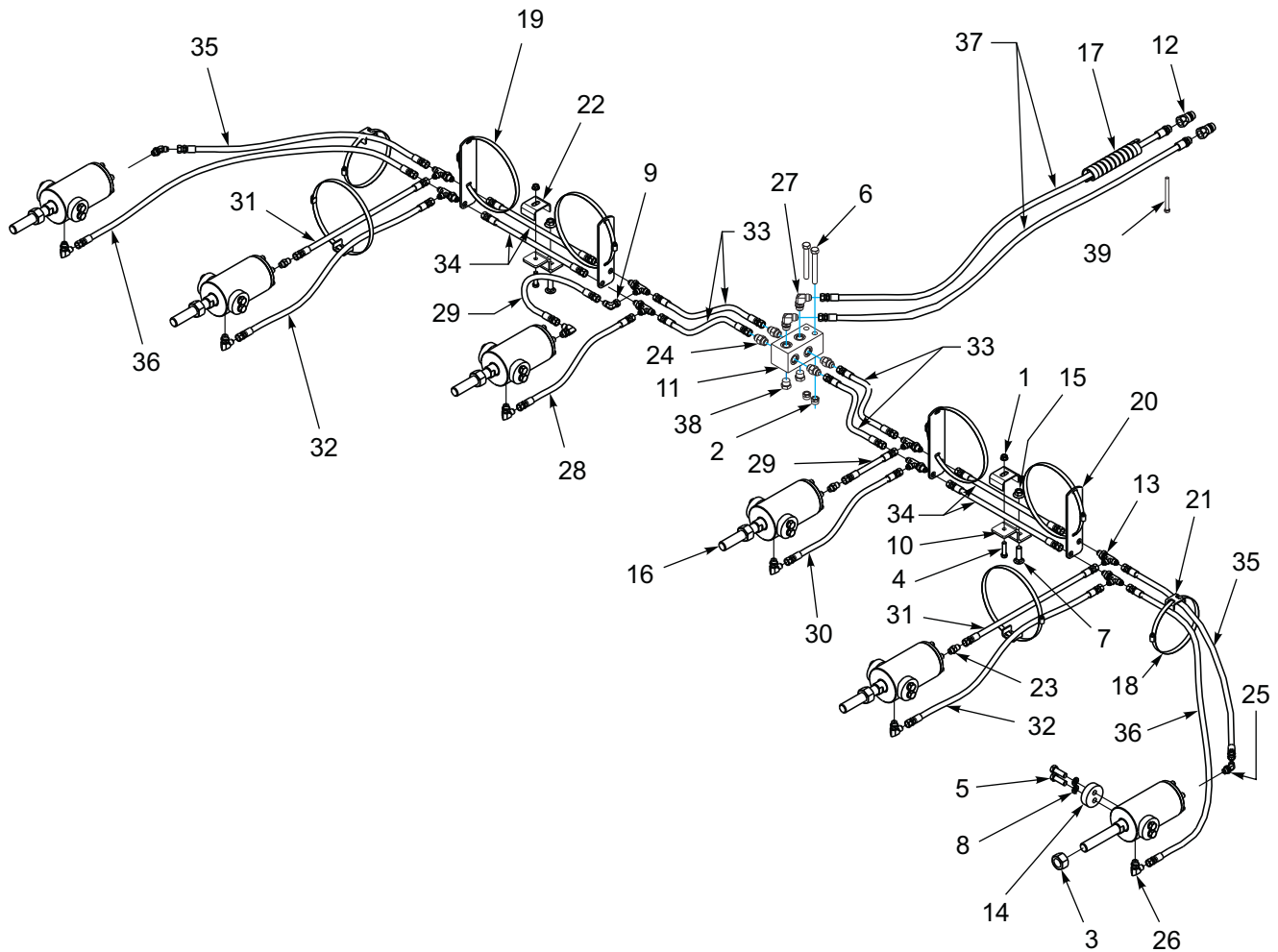


Figure 8-17: Reel Hydraulic Assembly 6231-26

Reel Hydraulic Assembly 6231-26

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	6
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	6
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2	24
6	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
7	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
8	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1
10	141275	BRACKET, HOSE CLAMP	2
11	2-474-010022	MANIFOLD HYDRAULIC, 6 HOSE (8 PORT)	1
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
14	198320	ASSY, TRUNION MOUNT 1-1/4" (AFTER 2-20-2016)	12
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
16	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6
16	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6
17	172973	HOSE WRAP, RED	1
18	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
19	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8
20	172992	PLATE, BULKHEAD	4
21	174784	CLAMP HOSE	12
22	2-181-010001	HOSE CLAMP	5
23	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3
24	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
25	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
26	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7
27	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
28	7779-14	HOSE ASSY, 1/4 X 14", #6 JIC, FEMALE	1
29	195665	HOSE ASSY, 1/4 X 20", #6 JIC, FEMALE	2
30	176929	HOSE ASSY, 1/4 X 24", #6 JIC, FEMALE	1
31	195666	HOSE ASSY, 1/4 X 26", #6 JIC, FEMALE	2
32	195667	HOSE ASSY, 1/4 X 32", #6 JIC, FEMALE	2
33	172999	HOSE ASSY, 1/4 X 42", #6 JIC, FEMALE	4
34	71500165	HOSE ASSY, 1/4 X 46", #6 JIC, FEMALE	4
35	71509010	HOSE ASSY, 1/4 X 64", #6 JIC, FEMALE	2
36	173000	HOSE ASSY, 1/4 X 68", #6 JIC, FEMALE	2
37	172972	HOSE ASSY, 3/8 X 330", #8 JIC, SWVL	2
38	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
39	173044	SCREW, ALL THREAD,3/8-16X4-1/2	1
40	199317	HYD REEL KIT, 6231-26 (NOT SHOWN) (ITEMS 1-37)	1

Reel Hydraulic Assembly 6231-29

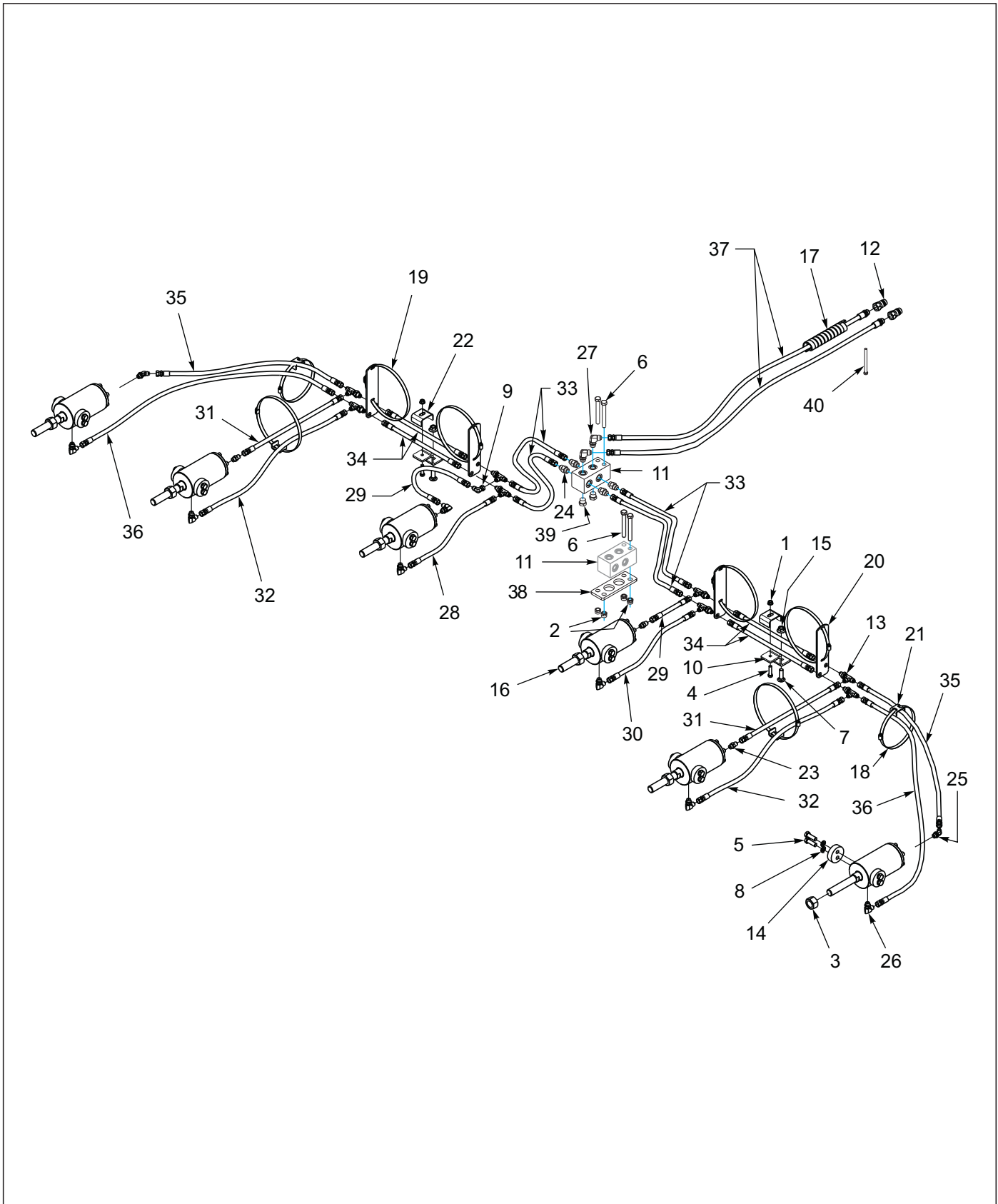


Figure 8-18: Reel Hydraulic Assembly 6231-29

Reel Hydraulic Assembly 6231-29

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	6
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	6
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2	24
6	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	4
7	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
8	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1
10	141275	BRACKET, HOSE CLAMP	2
11	2-474-010022	MANIFOLD HYDRAULIC, 6 HOSE (8 PORT)	2
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
14	198320	ASSY, TRUNION MOUNT 1-1/4" (AFTER 2-20-2016)	12
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
16	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6
16	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6
17	172973	HOSE WRAP, RED	1
18	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
19	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8
20	172992	PLATE, BULKHEAD	4
21	174784	CLAMP HOSE	12
22	2-181-010001	HOSE CLAMP	5
23	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3
24	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
25	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
26	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7
27	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
28	7779-14	HOSE ASSY, 1/4 X 14", #6 JIC, FEMALE	1
29	195665	HOSE ASSY, 1/4 X 20", #6 JIC, FEMALE	2
30	176929	HOSE ASSY, 1/4 X 24", #6 JIC, FEMALE	1
31	71509125	HOSE ASSY, 1/4 X 30", #6 JIC, FEMALE	2
32	71509009	HOSE ASSY, 1/4 X 36", #6 JIC, FEMALE	2
33	172999	HOSE ASSY, 1/4 X 42", #6 JIC, FEMALE	4
34	71500165	HOSE ASSY, 1/4 X 46", #6 JIC, FEMALE	4
35	71509006	HOSE ASSY, 1/4 X 80", #6 JIC, FEMALE	2
36	71509788	HOSE ASSY, 1/4 X 84", #6 JIC, FEMALE	2
37	172972	HOSE ASSY, 3/8 X 330", #8 JIC, SWVL	2
38	211367	HYD MANIFOLD MNT	1
39	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
40	173044	SCREW, ALL THREAD,3/8-16X4-1/2	1
41	199318	HYD REEL KIT, 6231-29 (NOT SHOWN) (ITEMS 1-38)	1

Reel Hydraulic Assembly 6231-30-36

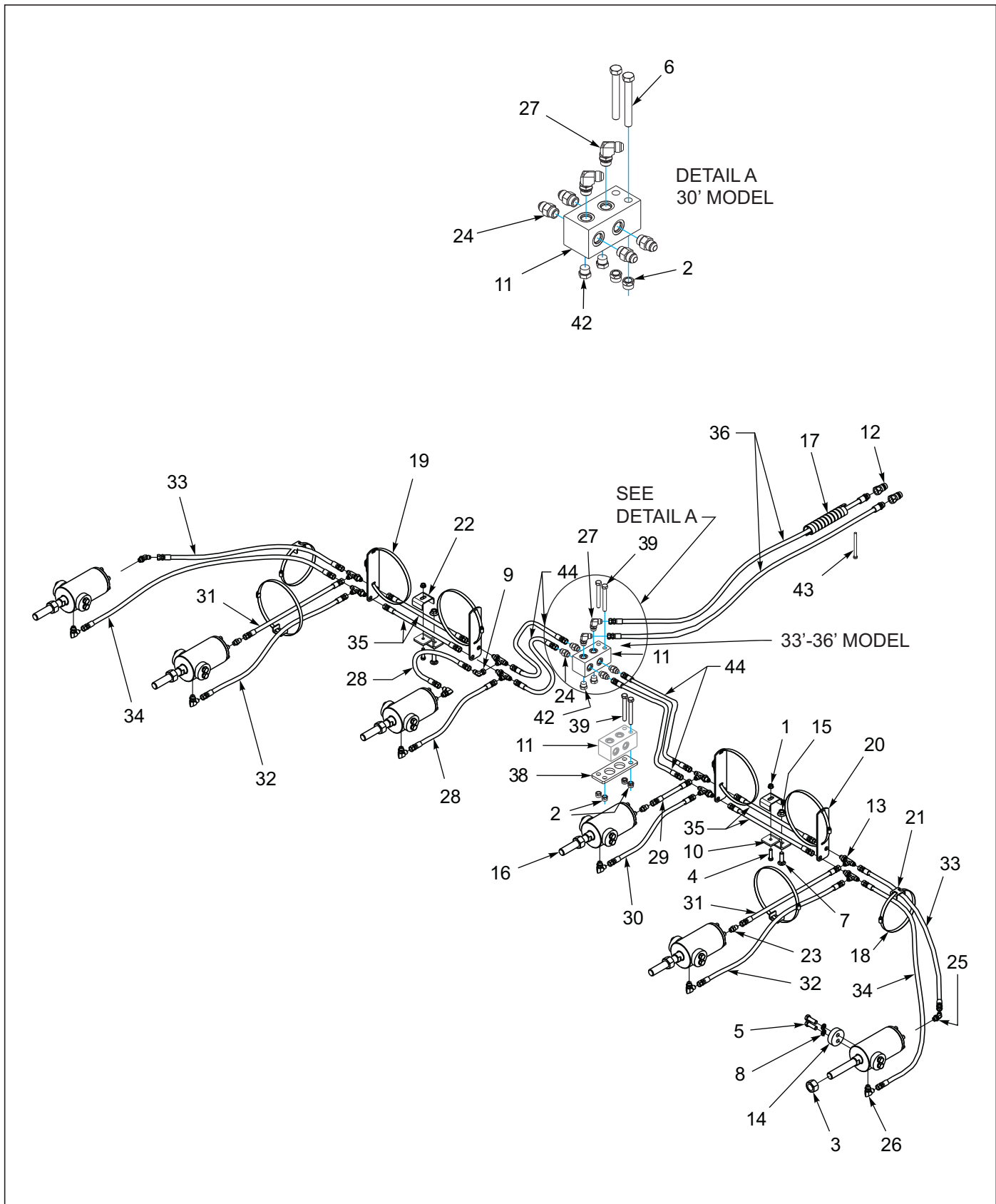


Figure 8-19: Reel Hydraulic Assembly 6231-30-36

Reel Hydraulic Assembly 6231-30-36

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GRB (BEFORE 6-8-2017)	6
3	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2 (AFTER 6-8-2017)	6
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2	24
6	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2 (USED ON 30' MODEL)	2
7	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
8	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1
10	141275	BRACKET, HOSE CLAMP	2
11	2-474-010022	MANIFOLD HYDRAULIC, 6 HOSE (8 PORT)	2
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
14	198320	ASSY, TRUNION MOUNT 1-1/4" (AFTER 2-20-2016)	12
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
16	172537	CYLINDER, 2-1/2 X 2-1/2 STROKE (BEFORE 6-8-2017) (SEE PAGE 5-9)	6
16	206671	CYLINDER, 2-1/2" X 2-1/2" ST 1-1/8 THDS (AFTER 6-8-2017) (SEE PAGE 5-10)	6
17	172973	HOSE WRAP, RED	1
18	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
19	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8
20	172992	PLATE, BULKHEAD	4
21	174784	CLAMP HOSE	12
22	2-181-010001	HOSE CLAMP	5
23	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3
24	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
25	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
26	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7
27	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
28	7779-14	HOSE ASSY, 1/4 X 14", #6 JIC, FEMALE	2
29	195665	HOSE ASSY, 1/4 X 20", #6 JIC, FEMALE	1
30	195666	HOSE ASSY, 1/4 X 26", #6 JIC, FEMALE	1
31	71509125	HOSE ASSY, 1/4 X 30", #6 JIC, FEMALE	2
32	71509009	HOSE ASSY, 1/4 X 36", #6 JIC, FEMALE	2
33	71509010	HOSE ASSY, 1/4 X 64", #6 JIC, FEMALE (USED ON 30' MODEL)	2
33	71509788	HOSE ASSY .250 X 84" (USED ON 33' MODEL)	2
33	71509004	HOSE ASSY, 1/4 X 98", #6 JIC, FEMALE (USED ON 36' MODEL)	2
34	173000	HOSE ASSY, 1/4 X 68", #6 JIC, FEMALE (USED ON 30' MODEL)	2
34	7779-90	HOSE HYD 1/4 X 90 (USED ON 33' MODEL)	2
34	7779-102	HOSE ASSY, 1/4 X 102", #6 JIC, FEMALE (USED ON 36' MODEL)	2
35	7779-54	HOSE ASSY, 1/4 X 54", #6 JIC, FEMALE	4
36	172972	HOSE ASSY, 3/8 X 330", #8 JIC, SWVL	2
37	199319	HYD REEL KIT, 6231-30 (NOT SHOWN) (ITEMS 1-36)	1
38	211367	HYD MANIFOLD MNT (USED ON 33'-36' MODELS)	1
39	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5 (USED ON 33'-36' MODELS)	4
40	199320	HYD REEL KIT, 6231-33 (NOT SHOWN) (ITEMS 1-36, 38, 39)	1
41	199321	HYD REEL KIT, 6231-36 (NOT SHOWN) (ITEMS 1-36, 38, 39)	1
42	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
43	173044	SCREW, ALL THREAD,3/8-16X4-1/2	1
44	71509010	HOSE ASSY, 1/4 X 64", #6 JIC, FEMALE	4

Chevron Flat Bar Reel Assembly 6231-23'-36'

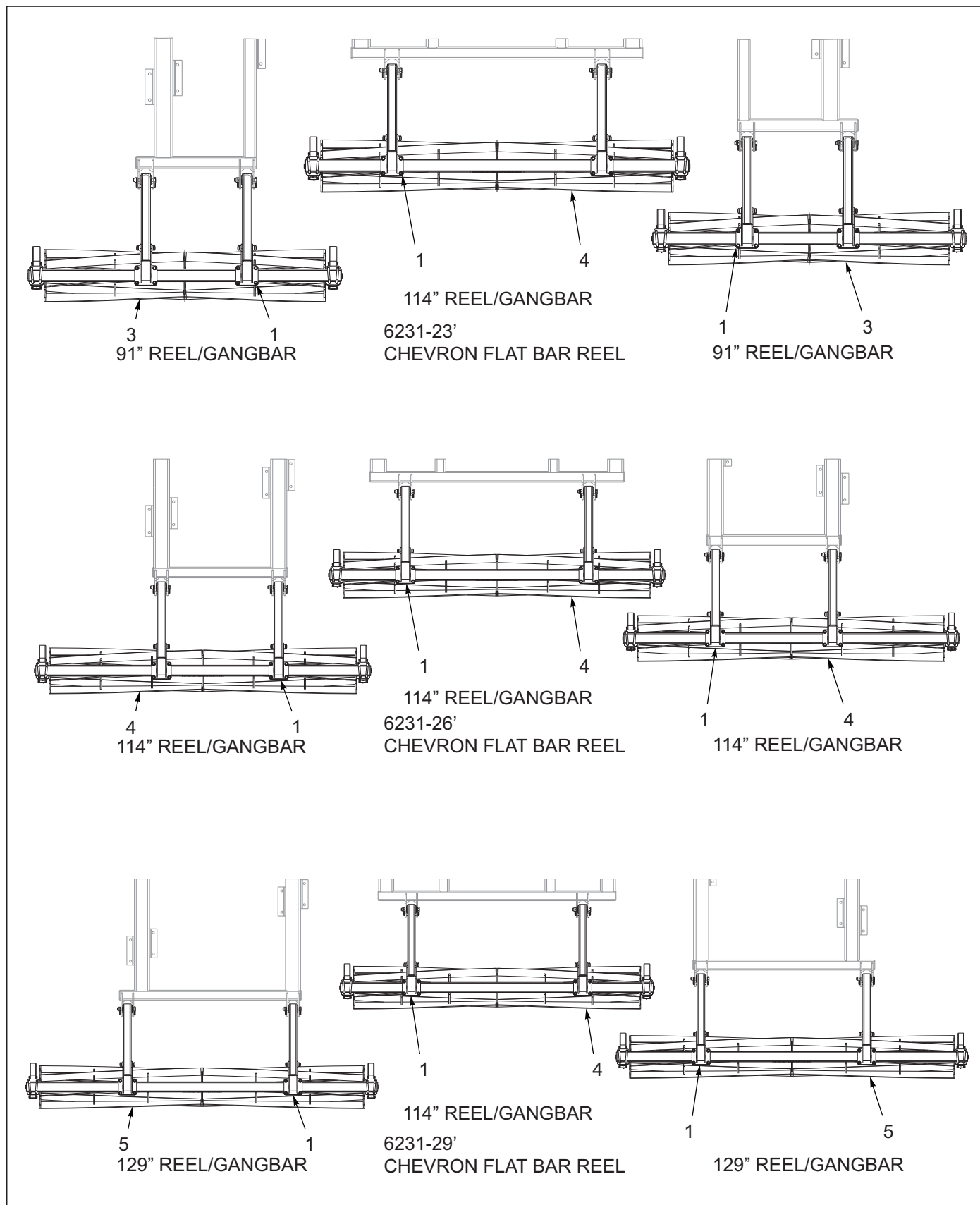


Figure 8-20: Chevron Flat Bar Reel Assembly 6231-26-29

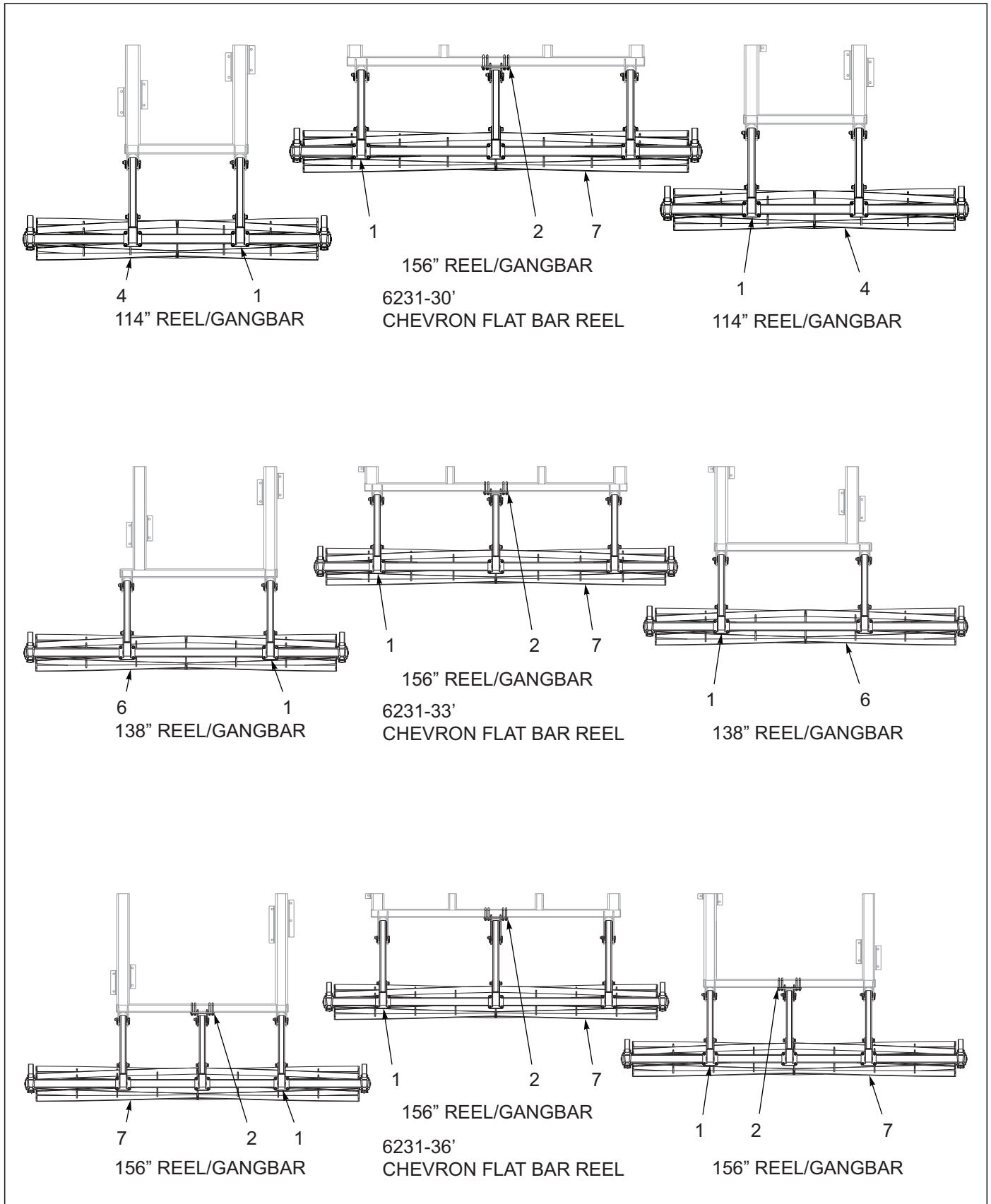


Figure 8-21: Chevron Flat Bar Reel Assembly 6231-30-33-36

Chevron Flat Bar Reel Assembly 6231-23'-36'

ITEM	PART NO.	DESCRIPTION	QTY.					
--	247143	CHEVRON FLAT BAR REEL, 6231-23	*					
--	237167	CHEVRON FLAT BAR REEL, 6231-26		*				
--	237168	CHEVRON FLAT BAR REEL, 6231-29			*			
--	237147	CHEVRON FLAT BAR REEL, 6231-30				*		
--	237169	CHEVRON FLAT BAR REEL, 6231-33					*	
--	237170	CHEVRON FLAT BAR REEL, 6231-36						*
1	-----	REEL ARM ASSEMBLY (SEE PAGE 8-37)	6	6	6	7	7	9
2	180164	ASSY, MOUNT-6" (SEE PAGE 8-37)	--	--	--	1	1	3
3	234349	REEL/GANGBAR, 91" CHEVRON FLAT (SEE PAGE 8-39)	2	--	--	--	--	--
4	234352	REEL/GANGBAR, 114" CHEVRON FLAT (SEE PAGE 8-39)	1	3	1	2	--	--
5	234354	REEL/GANGBAR, 129" CHEVRON FLAT (SEE PAGE 8-39)	--	--	2	--	--	--
6	237140	REEL/GANGBAR, 138" CHEVRON FLAT (SEE PAGE 8-39)	--	--	--	--	2	--
7	234355	REEL/GANGBAR, 156" CHEVRON FLAT (SEE PAGE 8-39)	--	--	--	1	1	3

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Chevron Flat Bar Reel Assembly

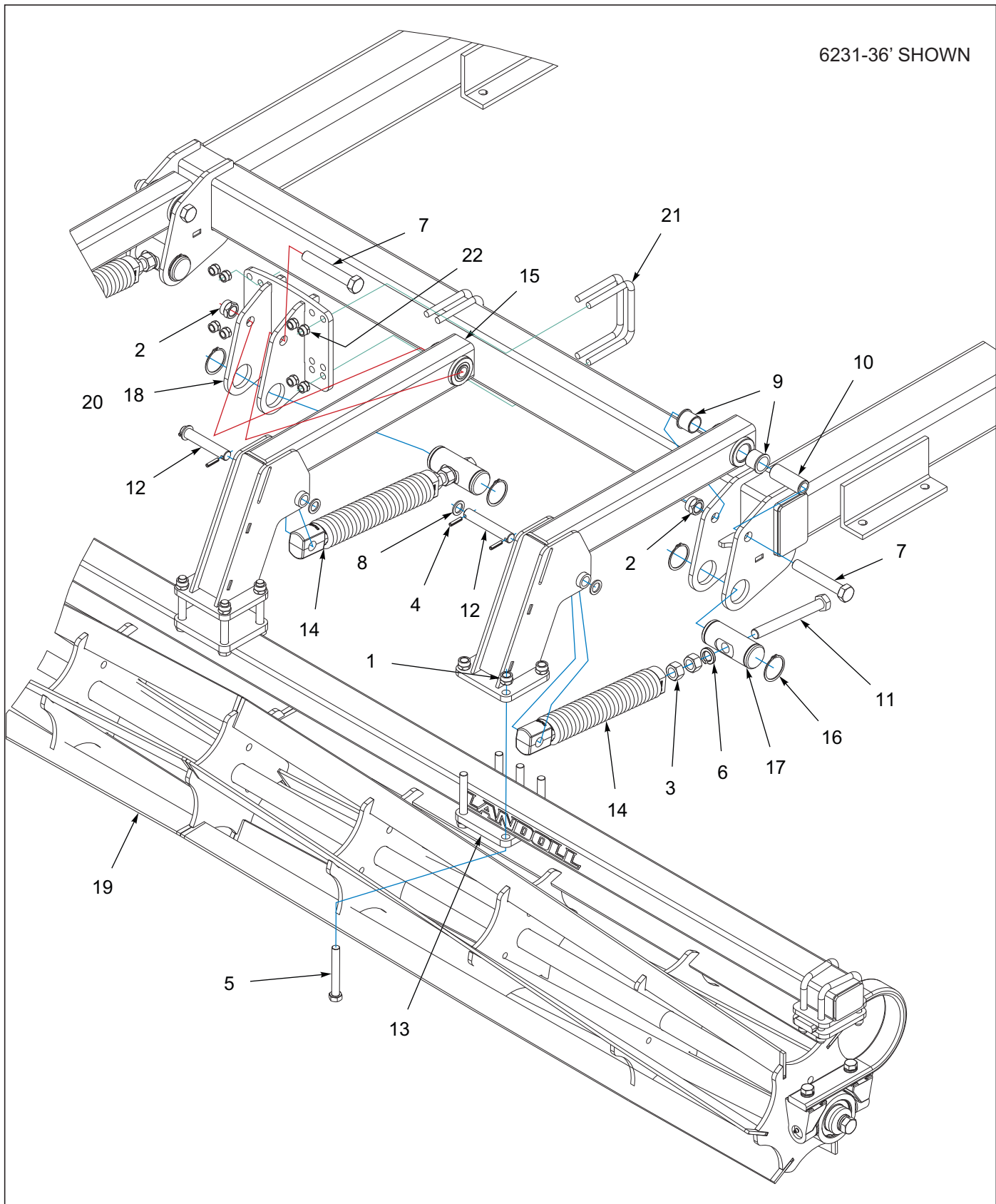


Figure 8-22: Chevron Flat Bar Reel Assembly

Chevron Flat Bar Reel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	247143	CHEVRON FLAT BAR REEL, 6231-23	*					
--	237167	CHEVRON FLAT BAR REEL, 6231-26		*				
--	237168	CHEVRON FLAT BAR REEL, 6231-29			*			
--	237147	CHEVRON FLAT BAR REEL, 6231-30				*		
--	237169	CHEVRON FLAT BAR REEL, 6231-33					*	
--	237170	CHEVRON FLAT BAR REEL, 6231-36						*
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10 (2 USED WITH 172884) (BEFORE 5-17-2023)	--	60	60	70	70	90
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC (2 USED WITH 172884) (AFTER 5-17-2023)	30	30	30	35	35	45
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6	6	6	7	7	9
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	12	12	12	14	14	18
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	12	12	12	14	14	18
5	172884	SCREW HX CP,3/4-10X6 GR8ZP (BEFORE 5-17-2023)	--	30	30	35	35	45
5	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8 (AFTER 5-17-2023)	30	30	30	35	35	45
6	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	6	6	6	7	7	9
7	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	6	6	6	7	7	9
8	117957	MACHINERY BUSHING,ZINC PLATED	12	12	12	14	14	18
9	140599	BEARING, FLANGE 1-1/2"	12	12	12	14	14	18
10	152209	BUSHING, PIVOT 1-1/2	6	6	6	7	7	9
11	152210	BOLT, ADJ, 1 X 9	6	6	6	7	7	9
12	154392	PIN, PIVOT	6	6	6	7	7	9
13	154748P	PLATE, GANGBAR MOUNT BLUE	6	6	6	7	7	9
14	158795	SPRING ASSY, 17"	6	6	6	7	7	9
15	158847	ARM, REEL WLDMT	6	6	6	7	7	9
16	158896	SNAP RING, 2-1/2 SHAFT	12	12	12	14	14	18
17	158897	PIN, ADJUSTMENT	6	6	6	7	7	9
18	180164	ASSY, MOUNT-6"	--	--	--	1	3	3
19	-----	REEL/GANGBAR, CHEVRON FLAT (SEE PAGE 8-39)	N/A	N/A	N/A	N/A	N/A	N/A
20	180161	MOUNT, COIL TINE WLDMT	--	--	--	1	1	3
21	2-102-010032	U BOLT CENTER SHANK MT.	--	--	--	4	4	12
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	--	--	--	8	8	24

Chevron Flat Bar Reel/Gangbar Assembly

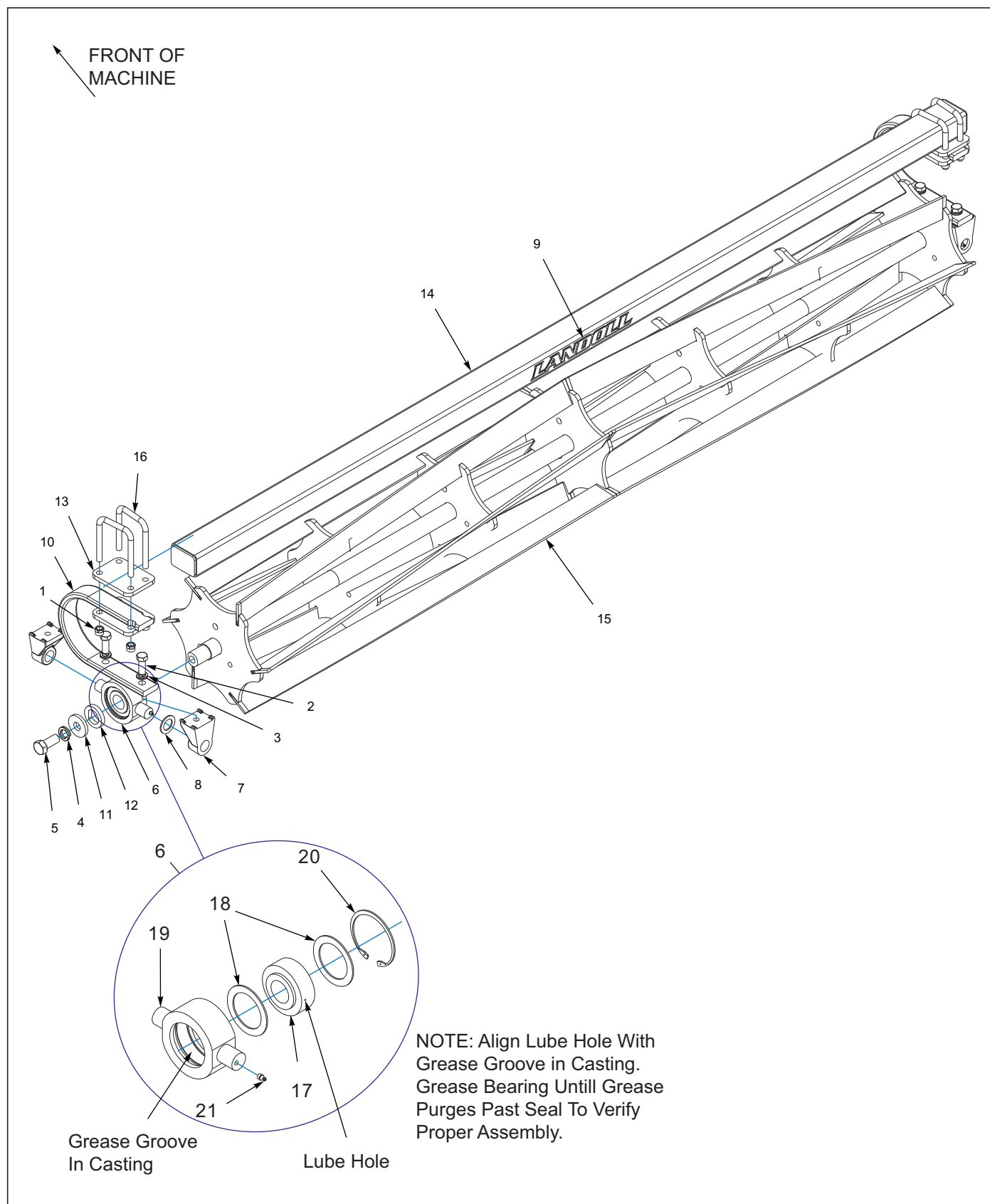


Figure 8-23: Chevron Flat Bar Reel/Gangbar Assembly

Chevron Flat Bar Reel/Gangbar Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.				
--	234349	REEL/GANGBAR, 91" CHEVRON FLAT	*				
--	234352	REEL/GANGBAR, 114" CHEVRON FLAT		*			
--	234354	REEL/GANGBAR, 129" CHEVRON FLAT			*		
--	237140	REEL/GANGBAR, 138" CHEVRON FLAT				*	
--	234355	REEL/GANGBAR, 156" CHEVRON FLAT					*
1	1-512-010005-13	NUT, HEX SLFLKG GRB 5/8-11	8	8	8	8	8
2	1-654-010032-05	SCREW HEX CAP 3/4-10X2 GR8	4	4	4	4	4
3	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4	4	4	4	4
4	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	2	2	2	2	2
5	137943	SCREW, HEX CAP 1-8UNCX2-1/4GR5	2	2	2	2	2
6	140477	BEARING, DISC 1.775 ID ASSY	2	2	2	2	2
7	140479	MOUNT, TRUNNION	4	4	4	4	4
8	140480	WASHER, TRUNNION	2	2	2	2	2
9	148337	ATTACHMENT DECAL, LANDOLL	1	1	1	1	1
10	153716	SHANK, STRAIGHT 3/4 X 2-1/2	2	2	2	2	2
11	154185	WASHER 3/8 THICK 1" ID	2	2	2	2	2
12	154186	WASHER FLAT TOP	2	2	2	2	2
13	154393	PLATE SHANK MOUNT	4	4	4	4	4
14	154658	GANGBAR WLDMT 101" - REEL 91"	1	--	--	--	--
14	154659	GANGBAR WLDMT 124" - REEL 114"	--	1	--	--	--
14	155594	GANGBAR WLDMT 139" - REEL 129"	--	--	1	--	--
14	201768	GANGBAR, 148" REEL 138" WLDMT	--	--	--	1	--
14	165226	GANGBAR, 166" REEL 156" WLDMT	--	--	--	--	1
15	234366	REEL WLDMT, CHEVRON FLAT, 91"	1	--	--	--	--
15	234369	REEL WLDMT, CHEVRON FLAT, 114"	--	1	--	--	--
15	234371	REEL WLDMT, CHEVRON FLAT, 129"	--	--	1	--	--
15	237141	REEL WLDMT, CHEVRON FLAT, 138"	--	--	--	1	--
15	234372	REEL WLDMT, CHEVRON FLAT, 156"	--	--	--	--	1
16	6-102-010009	U-BOLT RIGID GA WHEEL	4	4	4	4	4
17	140464	BEARING, DISC 1.775 ID	1	1	1	1	1
18	140473	WASHER, BEARING	2	2	2	2	2
19	140475	CASTING, TRUNNION	1	1	1	1	1
20	140476	INTERNAL RETAINING RING	1	1	1	1	1
21	5000	ZERK FITTING 1/8NPT	1	1	1	1	1

Double Reel Assembly 6231-21-23-26-29

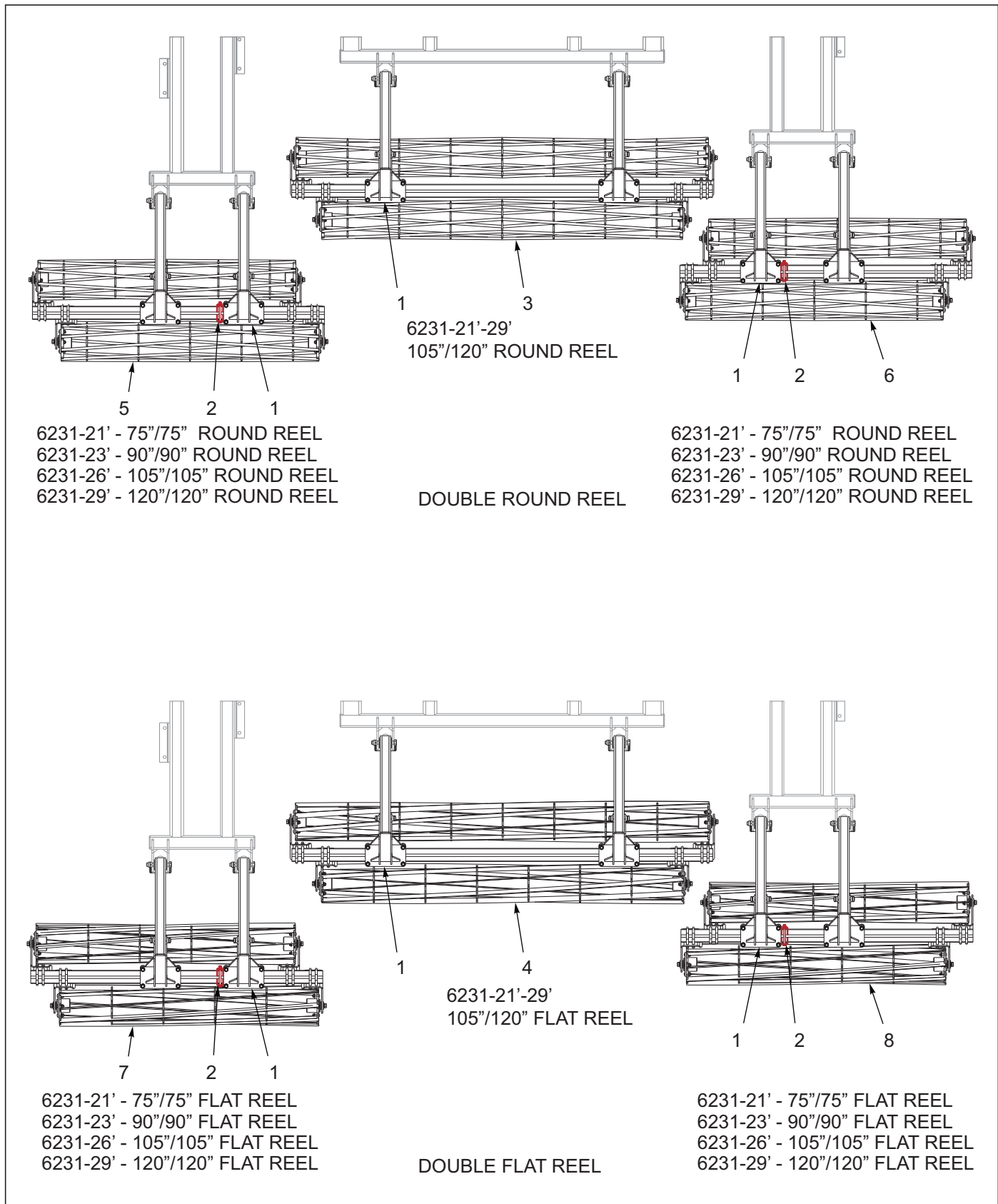
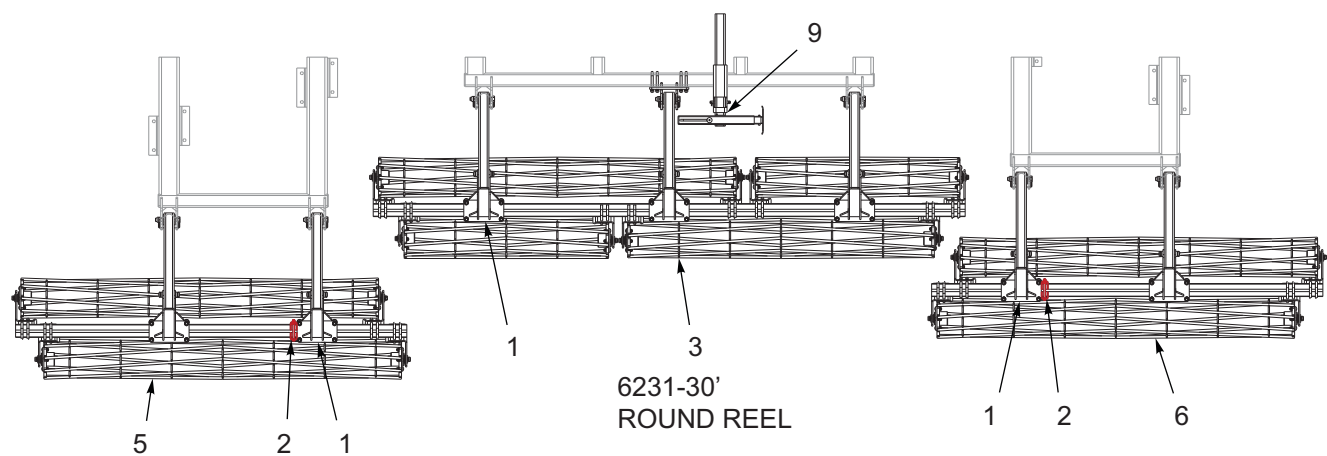


Figure 8-24: Double Reel Assembly 6231-21-23-26-29

Double Reel Assembly 6231-21-23-26-29

ITEM	PART NUMBER	DESCRIPTION	QTY.							
--	204513	DOUBLE ROUND REEL 6231-21 ASSY	*							
--	204514	DOUBLE ROUND REEL 6231-23 ASSY		*						
--	204515	DOUBLE ROUND REEL 6231-26 ASSY			*					
--	204516	DOUBLE ROUND REEL 6231-29 ASSY				*				
--	221186	DOUBLE FLAT REEL 6231-21 ASSY					*			
--	221187	DOUBLE FLAT REEL 6231-23 ASSY						*		
--	221188	DOUBLE FLAT REEL 6231-26 ASSY							*	
--	221189	DOUBLE FLAT REEL 6231-29 ASSY								*
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-61)	6	6	6	6	6	6	6	6
2	-----	CLAMP TUBE STOP ASSEMBLY (SEE PAGE 8-61)	2	2	2	2	2	2	2	2
3	204413	DOUBLE REEL ASSY, 105/120 (SEE PAGE 8-69)	1	1	1	1	--	--	--	--
4	209626	DOUBLE REEL ASSY, 105/120 (SEE PAGE 8-71)	--	--	--	--	1	1	1	1
5	204416	DOUBLE REEL ASSY, 75/75 (SEE PAGE 8-69)	1	--	--	--	--	--	--	--
5	204417	DOUBLE REEL ASSY, 90/90 (SEE PAGE 8-69)	--	1	--	--	--	--	--	--
5	204418	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	--	--	1	--	--	--	--	--
5	204419	DOUBLE REEL ASSY, 120/120 (SEE PAGE 8-69)	--	--	--	1	--	--	--	--
6	204422	DOUBLE REEL ASSY, 75/75 (SEE PAGE 8-69)	1	--	--	--	--	--	--	--
6	204423	DOUBLE REEL ASSY, 90/90 (SEE PAGE 8-69)	--	1	--	--	--	--	--	--
6	204424	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	--	--	1	--	--	--	--	--
6	204425	DOUBLE REEL ASSY, 120/120 (SEE PAGE 8-69)	--	--	--	1	--	--	--	--
7	209629	DOUBLE FLAT REEL ASSY 75/75 (SEE PAGE 8-71)	--	--	--	--	1	--	--	--
7	209630	DOUBLE FLAT REEL ASSY 90/90 (SEE PAGE 8-71)	--	--	--	--	--	1	--	--
7	209631	DOUBLE FLAT REEL ASSY, 105/105 (SEE PAGE 8-71)	--	--	--	--	--	--	1	--
7	209632	DOUBLE FLAT REEL ASSY 120/120 (SEE PAGE 8-71)	--	--	--	--	--	--	--	1
8	209635	DOUBLE FLAT REEL ASSY 75/75 (SEE PAGE 8-71)	--	--	--	--	1	--	--	--
8	209636	DOUBLE FLAT REEL ASSY 90/90 (SEE PAGE 8-71)	--	--	--	--	--	1	--	--
8	209637	DOUBLE FLAT REEL ASSY, 105/105 (SEE PAGE 8-71)	--	--	--	--	--	--	1	--
8	209638	DOUBLE FLAT REEL ASSY 120/120 (SEE PAGE 8-71)	--	--	--	--	--	--	--	1

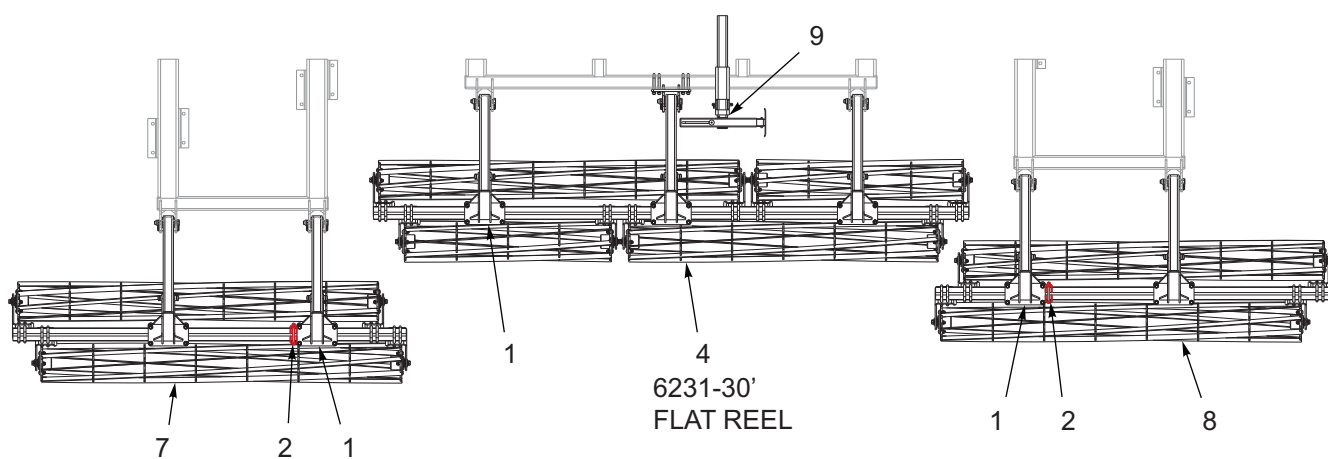
Double Reel Assembly 6231-30



6231-30' - 105"/105" ROUND REEL

DOUBLE ROUND REEL

6231-30' - 105"/105" ROUND REEL



6231-30' - 105"/105" FLAT REEL

DOUBLE FLAT REEL

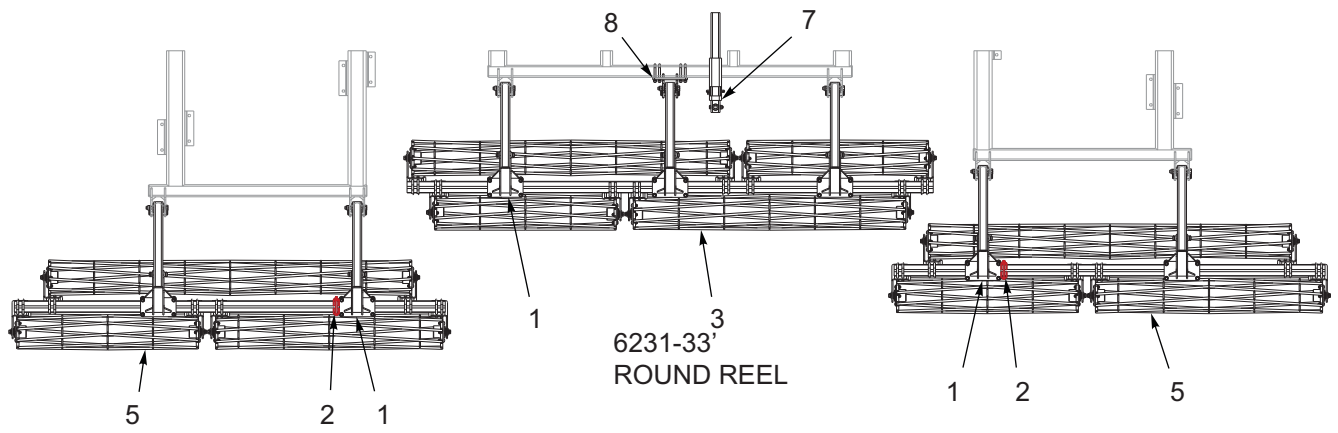
6231-30' - 105"/105" FLAT REEL

Figure 8-25: Double Reel Assembly 6231-30

Double Reel Assembly 6231-30

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	204517	DOUBLE ROUND REEL 6231-30 ASSY	*	
--	221190	DOUBLE FLAT REEL 6231-30 ASSY		*
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-63)	6	6
2	-----	CLAMP TUBE STOP ASSEMBLY (SEE PAGE 8-63)	2	2
3	204427	DOUBLE REEL ASSY (SEE PAGE 8-73)	1	--
4	209639	DOUBLE FLAT REEL ASSY 150/165 (SEE PAGE 8-73)	--	1
5	204418	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	1	--
6	204424	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	1	--
7	209631	DOUBLE FLAT REEL ASSY, 105/105 (SEE PAGE 8-71)	--	1
8	209637	DOUBLE FLAT REEL ASSY, 105/105 (SEE PAGE 8-71)	--	1
9	-----	REAR JACK MOUNT ASSEMBLY (SEE PAGE 8-63)	1	1

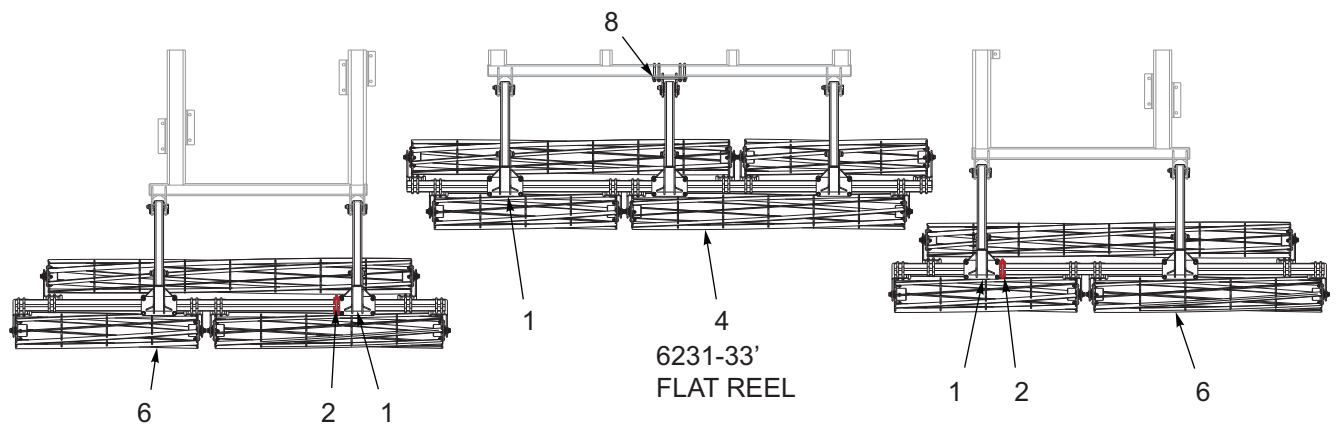
Double Reel Assembly 6231-33



6231-33' - 120"/135" ROUND REEL

DOUBLE ROUND REEL

6231-33' - 120"/135" ROUND REEL



6231-33' - 120"/135" FLAT REEL

DOUBLE FLAT REEL

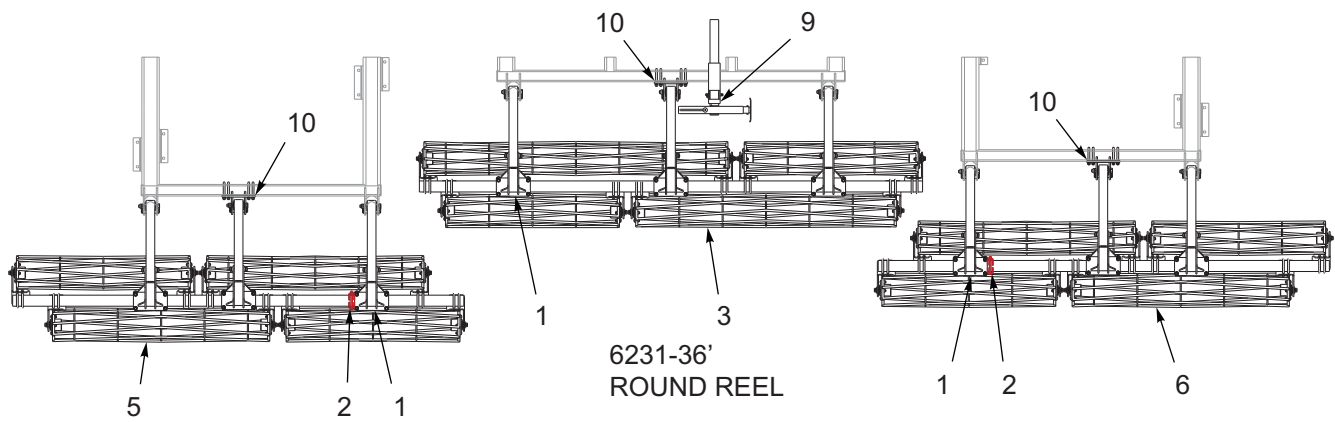
6231-33' - 120"/135" FLAT REEL

Figure 8-26: Double Reel Assembly 6231-33

Double Reel Assembly 6231-33

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	204518	DOUBLE ROUND REEL 6231-33 ASSY	*	
--	221191	DOUBLE FLAT REEL 6231-33 ASSY	*	
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-63)	6	6
2	-----	CLAMP TUBE STOP ASSEMBLY (SEE PAGE 8-63)	2	2
3	204427	DOUBLE REEL ASSY (SEE PAGE 8-73)	1	--
4	209639	DOUBLE FLAT REEL ASSY 150/165 (SEE PAGE 8-73)	--	1
5	204520	DOUBLE REEL ASSY 120/135 (SEE PAGE 8-75)	2	--
6	213756	DOUBLE FLAT REEL ASSY, 120/135 (SEE PAGE 8-75)	--	2
7	-----	REAR JACK MOUNT ASSEMBLY (SEE PAGE 8-63)	1	--
8	180164	ASSY, MOUNT-6" (SEE PAGE 8-63)	1	1

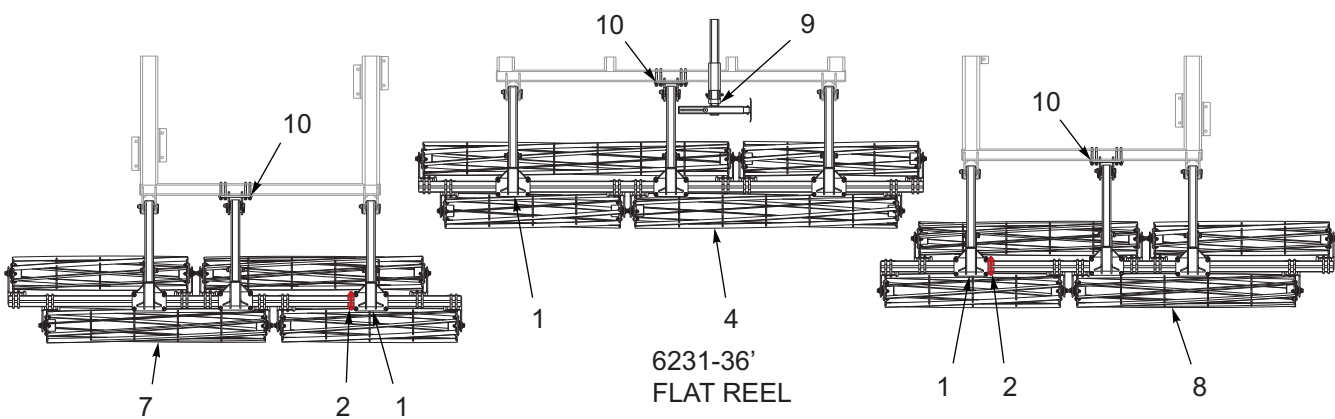
Double Reel Assembly 6231-36



6231-36' - 135"/135" ROUND REEL

DOUBLE ROUND REEL

6231-63' - 135"/135" ROUND REEL



6231-36' - 135"/135" FLAT REEL

DOUBLE FLAT REEL

6231-33' - 135"/135" FLAT REEL

Figure 8-27: Double Reel Assembly 6231-36

Double Reel Assembly 6231-36

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	204519	DOUBLE ROUND REEL 6231-36 ASSY	*	
--	221192	DOUBLE FLAT REEL 6231-36 ASSY	*	
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-63)	9	9
2	-----	CLAMP TUBE STOP ASSEMBLY (SEE PAGE 8-63)	2	2
3	204427	DOUBLE REEL ASSY (SEE PAGE 8-73)	1	--
4	209639	DOUBLE FLAT REEL ASSY 150/165 (SEE PAGE 8-73)	--	1
5	232462	DOUBLE REEL ASSY, 135/135 (SEE PAGE 8-73)	1	--
6	232461	DOUBLE REEL ASSY, 135/135 (SEE PAGE 8-73)	1	--
7	236791	DOUBLE FLAT REEL ASSY, 135/135 (SEE PAGE 8-73)	--	1
8	236790	DOUBLE FLAT REEL ASSY, 135/135 (SEE PAGE 8-73)	--	1
9	-----	REAR JACK MOUNT ASSEMBLY (SEE PAGE 8-63)	1	--
10	180164	ASSY, MOUNT-6" (SEE PAGE 8-63)	3	3

Hydraulic Double Reel Assembly 6231-21-26-29

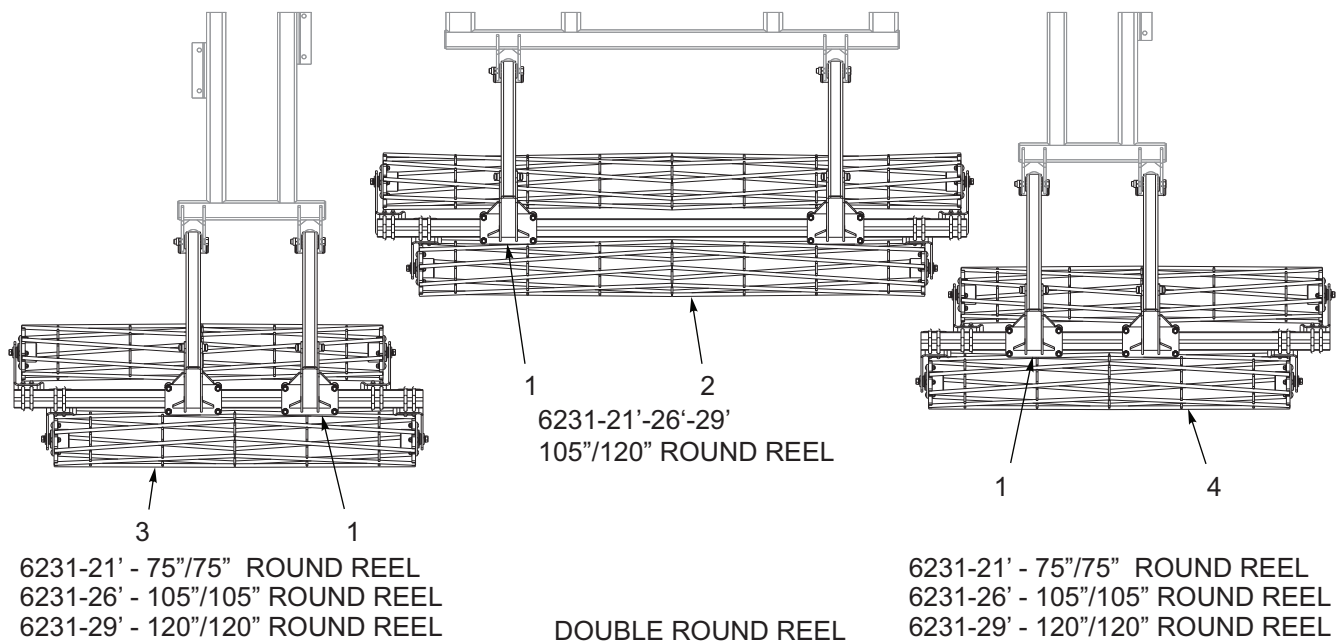


Figure 8-28: Hydraulic Double Reel Assembly 6231-21-26-29

Hydraulic Double Reel Assembly 6231-21-26-29

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	229798	HYD DOUBLE REEL ASSY 6231-21	*		
--	229750	HYD DOUBLE REEL ASSY 6231-26		*	
--	232493	HYD DBL RD REEL ASSY 6231-29			*
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-65)	6	6	6
2	204413	DOUBLE REEL ASSY, 105/120 (SEE PAGE 8-69)	1	1	1
3	204416	DOUBLE REEL ASSY, 75/75 (SEE PAGE 8-69)	1	--	--
3	204418	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	--	1	--
3	204419	DOUBLE REEL ASSY, 120/120 (SEE PAGE 8-69)	--	--	1
4	204422	DOUBLE REEL ASSY, 75/75 (SEE PAGE 8-69)	1	--	--
4	204424	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	--	1	--
4	204425	DOUBLE REEL ASSY, 120/120 (SEE PAGE 8-69)	--	--	1

Hydraulic Double Reel Assembly 6231-30-33-36

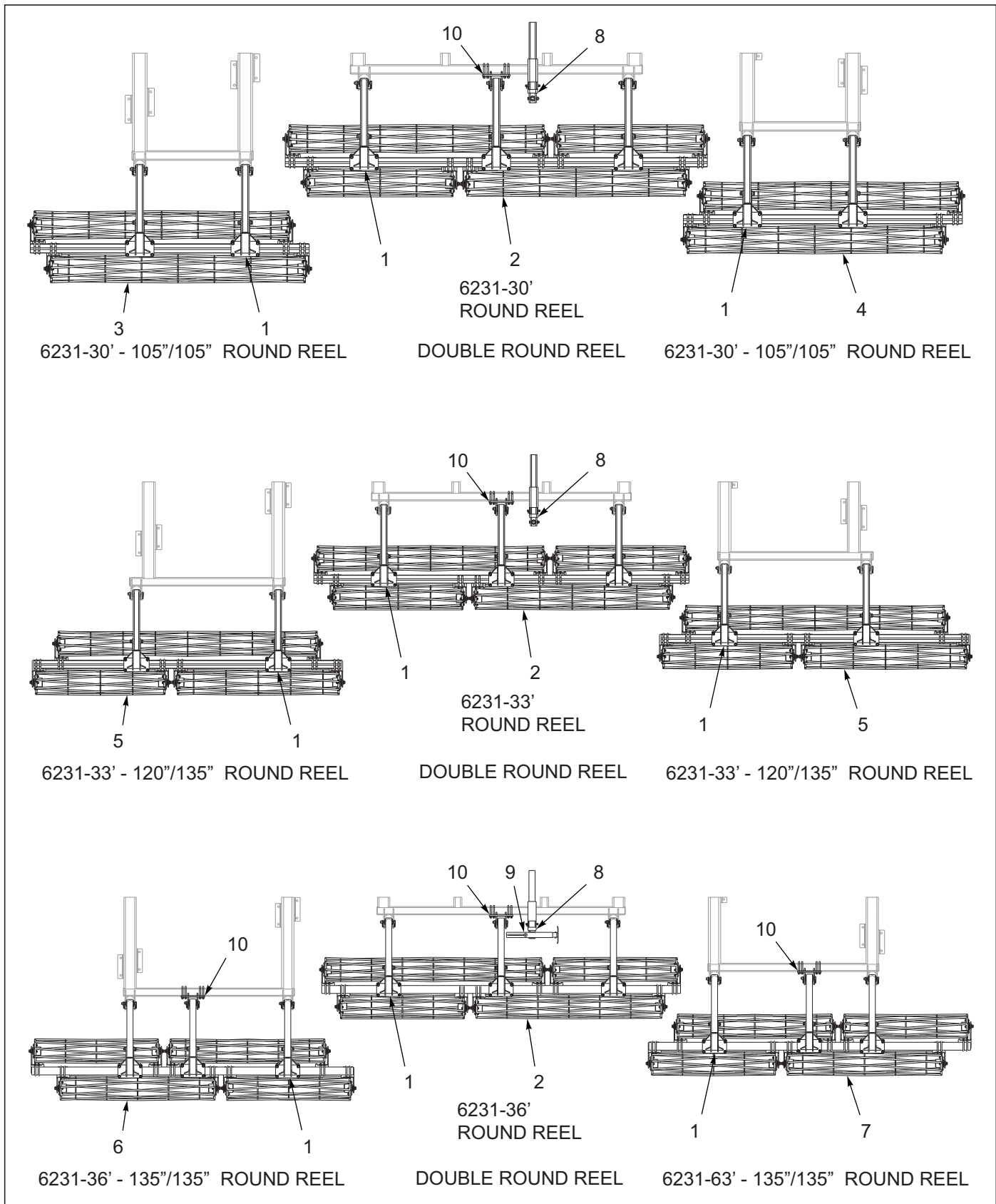


Figure 8-29: Hydraulic Double Reel Assembly 6231-30-33-36

Hydraulic Double Reel Assembly 6231-30-33-36

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	240692	HYD DBL RD REEL ASSY 6231-30	*		
--	232378	HYD DBL RD REEL ASSY 6231-33		*	
--	232459	HYD DBL REEL ASSY 6231-36			*
1	-----	DOUBLE REEL ARM ASSEMBLY (SEE PAGE 8-67)	7	7	9
2	204427	DOUBLE REEL ASSY (SEE PAGE 8-73)	1	1	1
3	204418	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	1	--	--
4	204424	DOUBLE REEL ASSY, 105/105 (SEE PAGE 8-69)	1	--	--
5	204520	DOUBLE REEL ASSY 120/135 (SEE PAGE 8-75)	--	2	--
6	232462	DOUBLE REEL ASSY, 135/135 (SEE PAGE 8-73)	--	--	1
7	232461	DOUBLE REEL ASSY, 135/135 (SEE PAGE 8-73)	--	--	1
8	156953	REAR JACK MOUNT ASSY (SEE PAGE 8-67)	1	1	1
9	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-20)	--	--	1
10	180164	ASSY, MOUNT-6" (SEE PAGE 8-67)	1	1	3

Hydraulic Double Reel Assembly 6231-21-26-29

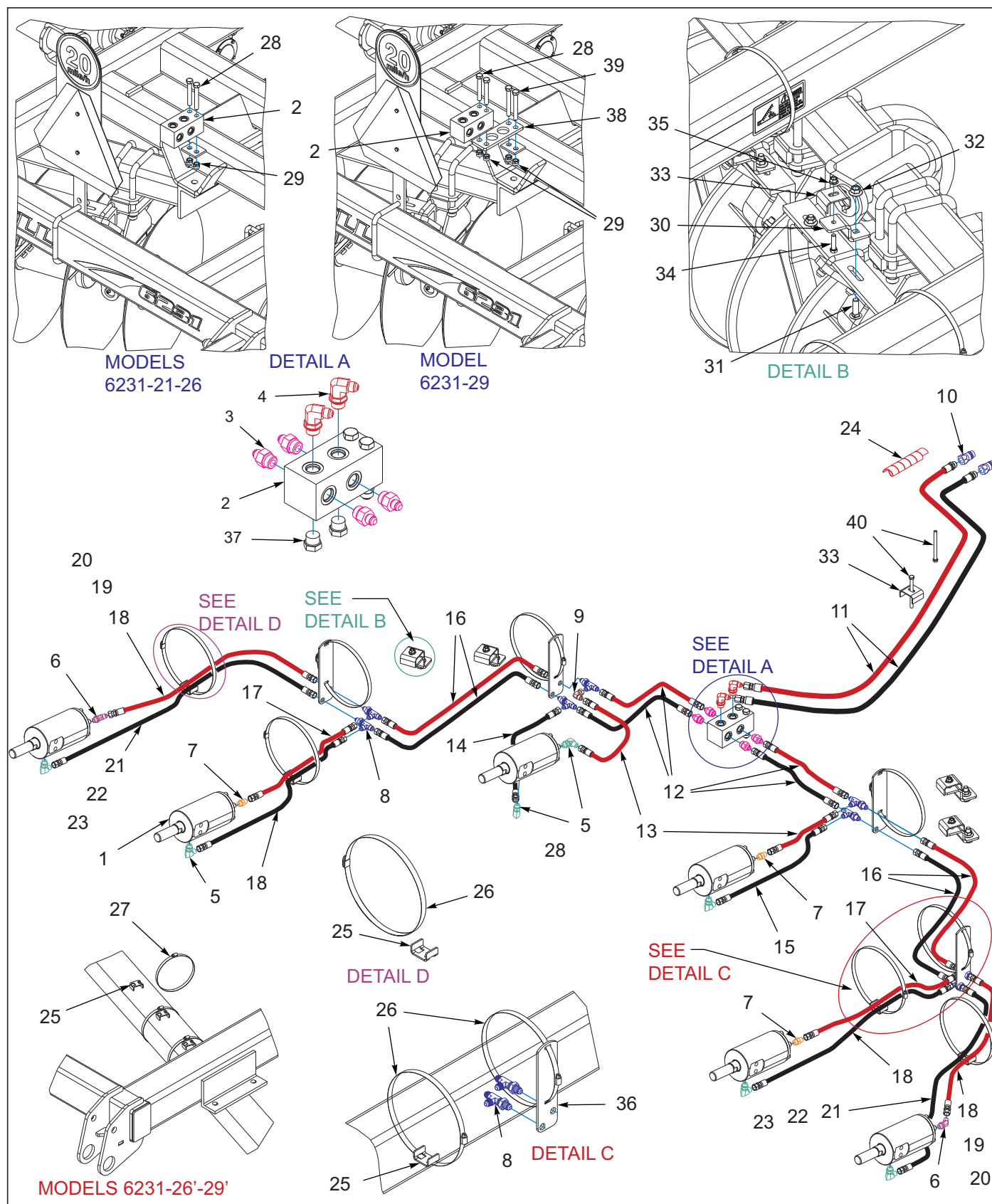


Figure 8-30: Hydraulic Double Reel Assembly 6231-21-26-29

Hydraulic Double Reel Assembly 6231-21-26-29

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	229798	HYD DOUBLE REEL ASSY 6231-21	*		
--	229750	HYD DOUBLE REEL ASSY 6231-26	*		
--	232493	HYD DBL RD REEL ASSY 6231-29	*		
1	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	6	6	6
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1	1	1
3	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4	4	4
4	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2	2	2
5	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	7	7	7
6	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2	2	2
7	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	3	3	3
8	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8	8	8
9	102-0031	ADAPTER,90 JIC SWIVEL #6	1	1	1
10	141828	COUPLER,MALE 3/4-16 O-RING	2	2	2
11	172972	HOSE ASSY, 3/8, #6JICX#8ORX330	2	2	2
12	172999	HOSE ASSY, 1/4 X 42 #6 JIC STR	4	4	4
13	195665	HOSE ASSY, 1/4X20" #6 JIC STR	2	2	2
14	7779-14	HOSE HYD 1/4 X 14	1	1	1
15	176929	HOSE ASSY, 1/4 X 24 #6 JIC STR	1	1	1
16	71500165	HOSE, .25 X 46 IN.	4	4	4
17	195666	HOSE ASSY, 1/4X26" #6 JIC STR (MODELS 6231-21'-26')	2	2	--
17	71509125	HOSE ASSY, 1/4, #6 JIC 30" (MODEL 6231-29')	--	--	2
18	195667	HOSE ASSY, 1/4X32" #6 JIC STR	4	2	--
19	71509010	HOSE ASM 1/4 X 64	--	2	--
20	71509006	HOSE ASM 1/4 X 80	--	--	2
21	224663	HOSE ASSY, 1/4 X 38 #6 JIC STR	2	--	--
22	173000	HOSE ASSY, 1/4 X 68 #6 JIC STR	--	2	--
23	71509788	HOSE ASSY .250 X 84"	--	--	2
24	172973	HOSE WRAP, RED	1	1	1
25	174784	CLAMP HOSE	4	8	8
26	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	8	6	6
27	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	--	6	6
28	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2	2	2
29	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2	2	2
30	141275	BRACKET, HOSE CLAMP	4	4	4
31	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4	4	4
32	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4	4	4
33	2-181-010001	HOSE CLAMP	5	5	5
34	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4	4	4
35	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4	4	4
36	172992	PLATE, BULKHEAD	4	4	4
37	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2	2	2
38	211367	HYD MANIFOLD MNT	--	--	1
39	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	--	--	1
40	173044	SCREW, ALL THREAD,3/8-16X4-1/2	2	2	2

Hydraulic Double Reel Assembly 6231-30

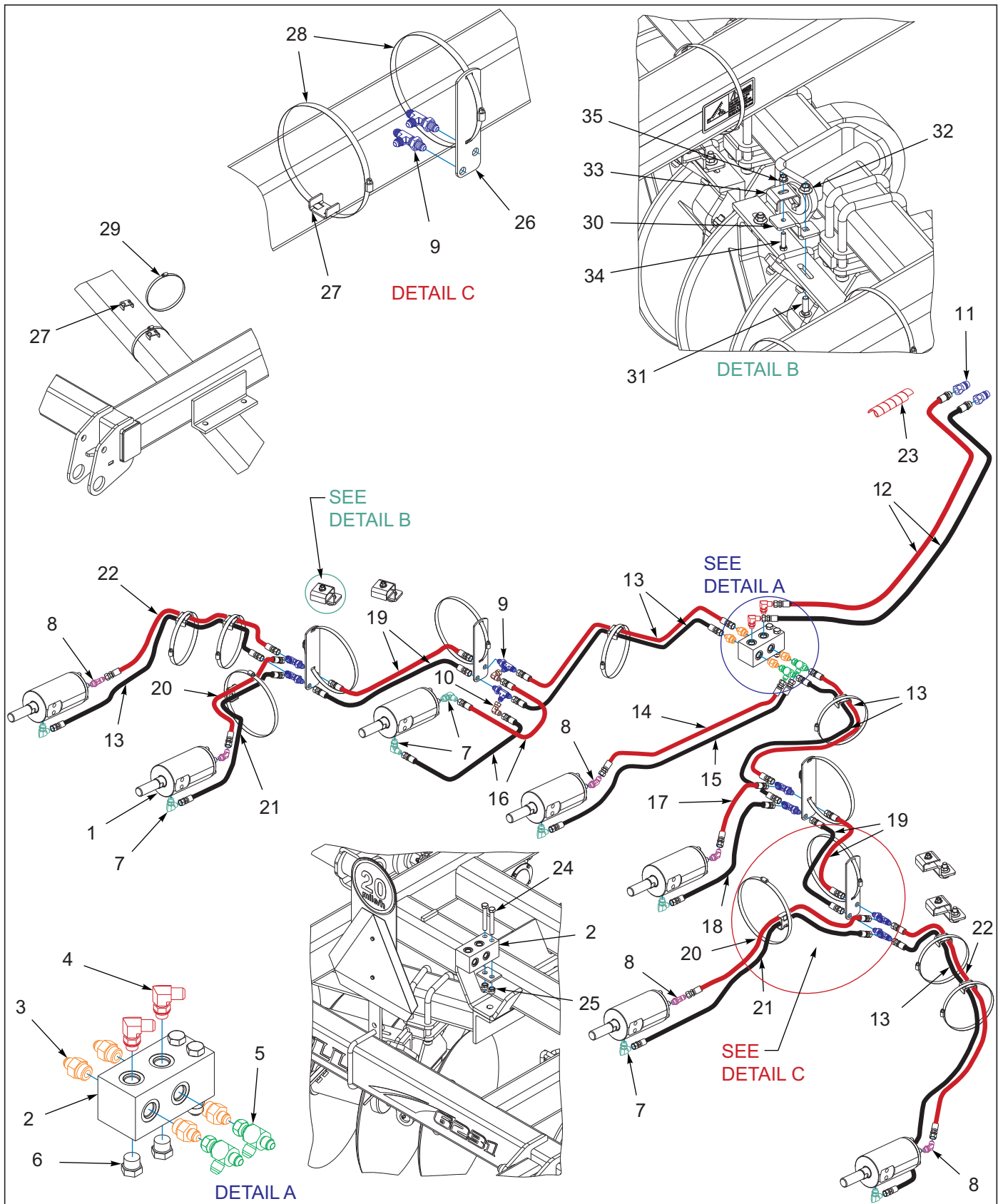


Figure 8-31: Hydraulic Double Reel Assembly 6231-30

Hydraulic Double Reel Assembly 6231-30

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	240692	HYD DBL RD REEL ASSY 6231-30	
1	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	7
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
4	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
5	102-1158	TEE,RUN-SWVL .38SAE	2
6	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
7	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	8
8	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	6
9	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
10	102-0031	ADAPTER,90 JIC SWIVEL #6	2
11	141828	COUPLER,MALE 3/4-16 O-RING	2
12	172972	HOSE ASSY, 3/8, #6JICX#8ORX330	2
13	71509010	HOSE ASM 1/4 X 64	6
14	195667	HOSE ASSY, 1/4X32" #6 JIC STR	1
15	71509009	HOSE ASSY, 1/4 X 36 #6 JIC STR	1
16	7779-14	HOSE HYD 1/4 X 14	2
17	195665	HOSE ASSY, 1/4X20" #6 JIC STR	1
18	195666	HOSE ASSY, 1/4X26" #6 JIC STR	4
19	7779-54	HOSE HYD 1/4 X 54	4
20	176930	HOSE ASSY, 1/4 X 28 #6 JIC STR	2
21	7779-34	HOSE HYD 1/4 X 34	2
22	172979	HOSE ASSY, 1/4 X 60 #6 JIC STR	2
23	172973	HOSE WRAP, RED	1
24	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
25	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
26	172992	PLATE, BULKHEAD	4
27	174784	CLAMP HOSE	8
28	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	6
29	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	6
30	141275	BRACKET, HOSE CLAMP	4
31	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
32	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
33	2-181-010001	HOSE CLAMP	5
34	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
35	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4

Hydraulic Double Reel Assembly 6231-33

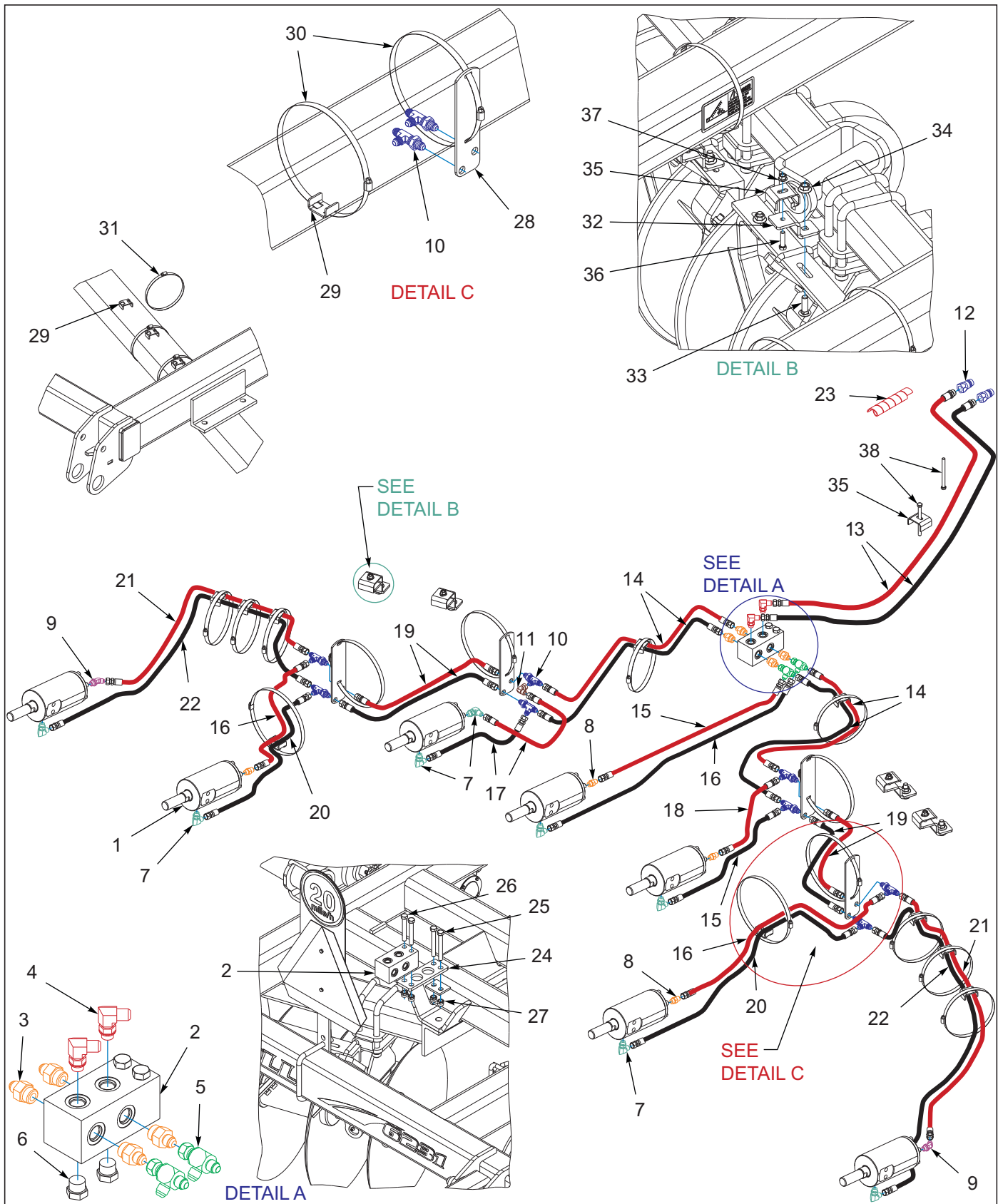


Figure 8-32: Hydraulic Double Reel Assembly 6231-33

Hydraulic Double Reel Assembly 6231-33

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	232378	HYD DBL RD REEL ASSY 6231-33	
1	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	7
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
4	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
5	102-1158	TEE,RUN-SWVL .38SAE	2
6	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
7	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	8
8	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	4
9	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
10	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
11	102-0031	ADAPTER,90 JIC SWIVEL #6	1
12	141828	COUPLER,MALE 3/4-16 O-RING	2
13	172972	HOSE ASSY, 3/8, #6JICX#8ORX330	2
14	71509010	HOSE ASM 1/4 X 64	4
15	195666	HOSE ASSY, 1/4X26" #6 JIC STR	2
16	71509125	HOSE ASSY, 1/4, #6 JIC 30"	3
17	7779-14	HOSE HYD 1/4 X 14	2
18	195665	HOSE ASSY, 1/4X20" #6 JIC STR	1
19	7779-54	HOSE HYD 1/4 X 54	4
20	71509009	HOSE ASSY, 1/4 X 36 #6 JIC STR	2
21	71509788	HOSE ASSY .250 X 84"	2
22	7779-90	HOSE HYD 1/4 X 90	2
23	172973	HOSE WRAP, RED	1
24	211367	HYD MANIFOLD MNT	1
25	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2
26	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
27	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
28	172992	PLATE, BULKHEAD	4
29	174784	CLAMP HOSE	10
30	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	6
31	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
32	141275	BRACKET, HOSE CLAMP	4
33	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
34	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
35	2-181-010001	HOSE CLAMP	5
36	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
37	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
38	173044	SCREW, ALL THREAD,3/8-16X4-1/2	2

Hydraulic Double Reel Assembly 6231-36

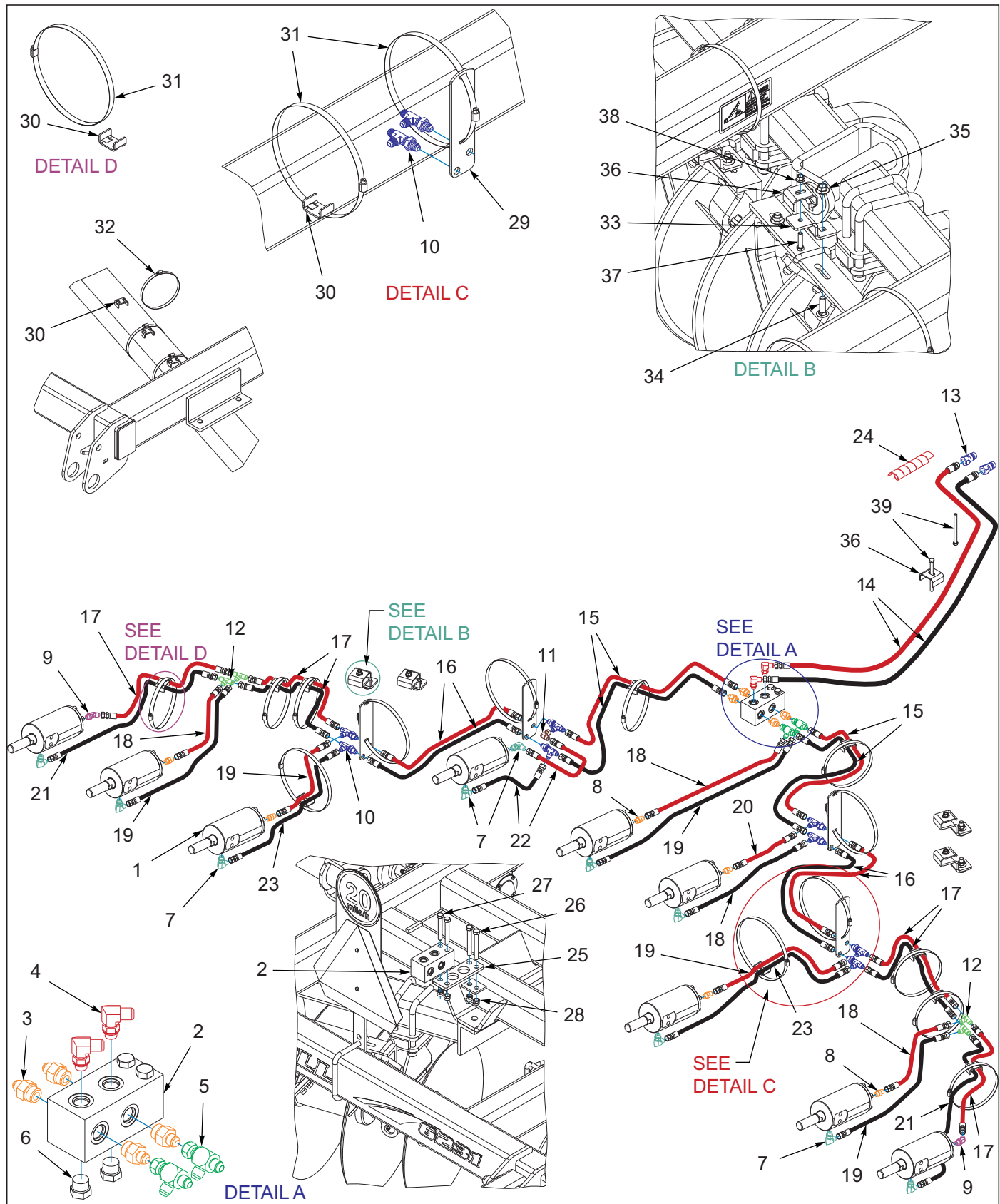


Figure 8-33: Hydraulic Double Reel Assembly 6231-36

Hydraulic Double Reel Assembly 6231-36

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	232459	HYD DBL REEL ASSY 6231-36	
1	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	6
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
4	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
5	102-1158	TEE,RUN-SWVL .38SAE	2
6	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
7	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	10
8	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	6
9	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
10	162569	TEE,#6 JIC BULKHD RUN, W/NUT	8
11	102-0031	ADAPTER,90 JIC SWIVEL #6	1
12	2033-6-6S	ADAPTER, TEE, #6 TUBE	4
13	141828	COUPLER,MALE 3/4-16 O-RING	2
14	172972	HOSE ASSY, 3/8, #6JICX#8ORX330	2
15	71509010	HOSE ASM 1/4 X 64	4
16	7779-54	HOSE HYD 1/4 X 54	4
17	232464	HOSE ASSY, 1/4X44 #6 JIC STR	6
18	195666	HOSE ASSY, 1/4X26" #6 JIC STR	4
19	71509125	HOSE ASSY, 1/4, #6 JIC 30"	5
20	195665	HOSE ASSY, 1/4X20" #6 JIC STR	1
21	7779-48	HOSE HYD 1/4 X 48	2
22	7779-14	HOSE HYD 1/4 X 14	2
23	71509009	HOSE ASSY, 1/4 X 36 #6 JIC STR	2
24	172973	HOSE WRAP, RED	1
25	211367	HYD MANIFOLD MNT	1
26	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2
27	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
28	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
29	172992	PLATE, BULKHEAD	4
30	174784	CLAMP HOSE	8
31	172977	CLAMP, HOSE 2-1/2 - 8-1/2 #128	6
32	172976	CLAMP, HOSE 4-1/2 - 6-1/2 #096	8
33	141275	BRACKET, HOSE CLAMP	4
34	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	4
35	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	4
36	2-181-010001	HOSE CLAMP	5
37	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
38	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
39	173044	SCREW, ALL THREAD,3/8-16X4-1/2	2

Double Reel Assembly 6231-21-23-26-29

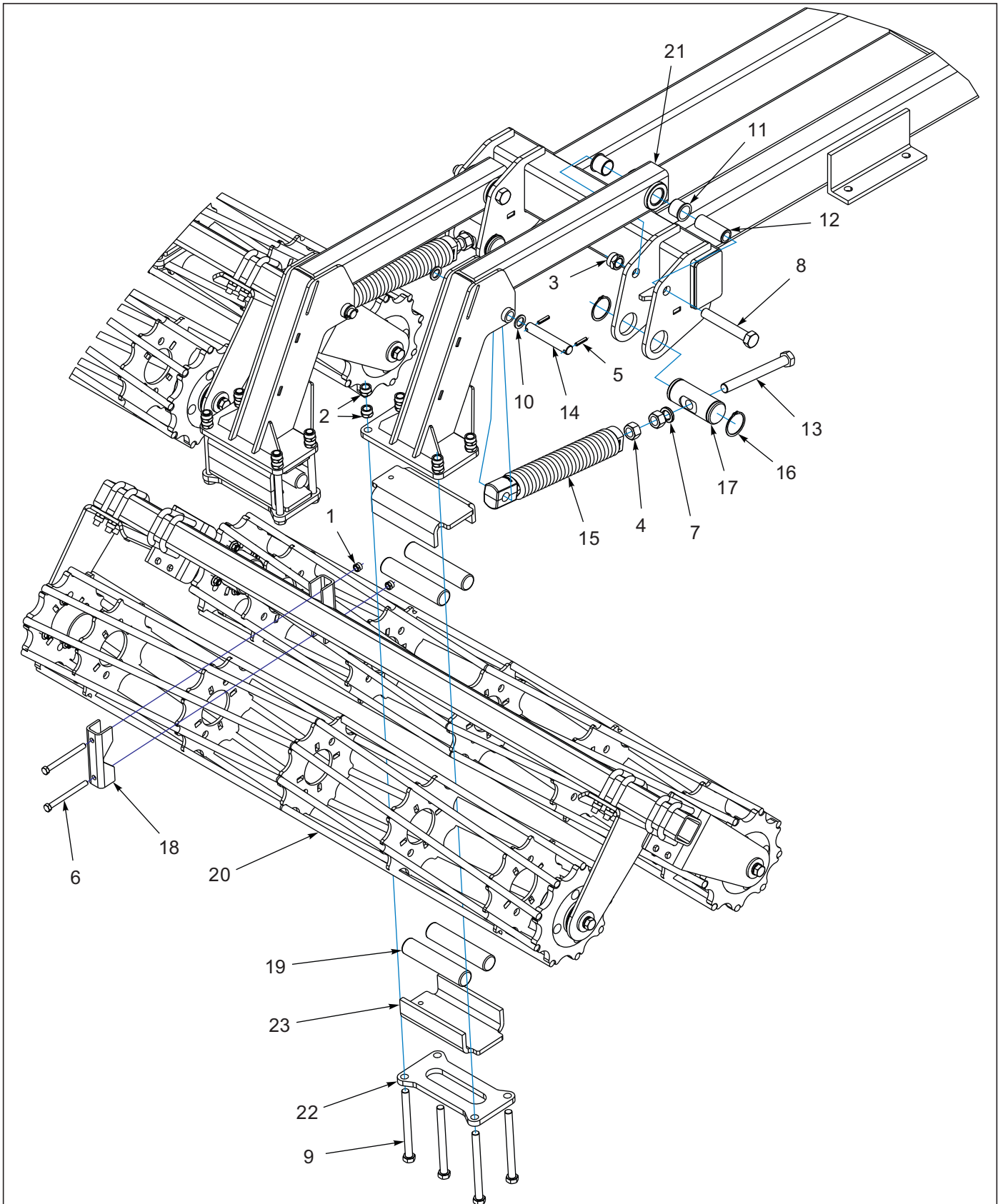


Figure 8-34: Double Reel Assembly 6231-21-23-26-29

Double Reel Assembly 6231-21-23-26-29

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	204513	DOUBLE ROUND REEL 6231-21 ASSY	
--	204514	DOUBLE ROUND REEL 6231-23 ASSY	
--	204515	DOUBLE ROUND REEL 6231-26 ASSY	
--	204516	DOUBLE ROUND REEL 6231-29 ASSY	
--	221186	DOUBLE FLAT REEL 6231-21 ASSY	
--	221187	DOUBLE FLAT REEL 6231-23 ASSY	
--	221188	DOUBLE FLAT REEL 6231-26 ASSY	
--	221189	DOUBLE FLAT REEL 6231-29 ASSY	
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	48
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6
4	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	12
5	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	12
6	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4
7	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	6
8	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	6
9	107491	SCREW HX CP 3/4-10X8-1/2 GR8	24
10	117957	MACHINERY BUSHING,ZINC PLATED	12
11	140599	BEARING, FLANGE 1-1/2"	12
12	152209	BUSHING, PIVOT 1-1/2	6
13	152210	BOLT, ADJ, 1 X 9	6
14	154392	PIN, PIVOT	6
15	158795	SPRING ASSY, 17"	6
16	158896	SNAP RING, 2-1/2 SHAFT	12
17	158897	PIN, ADJUSTMENT	6
18	191487	CLAMP, TUBE 3X3	4
19	203525	SPRING-TORSION, RUBBER, 1-3/4	24
20	-----	DOUBLE REEL ASSEMBLIES (SEE PAGE 8-69)	N/A
21	204505	ARM WLDMT DOUBLE REEL	6
22	204510	PLATE GANGBAR MOUNT	6
23	204511	TUBE, CLAMP	12

Double Reel Assembly 6231-30-33-36

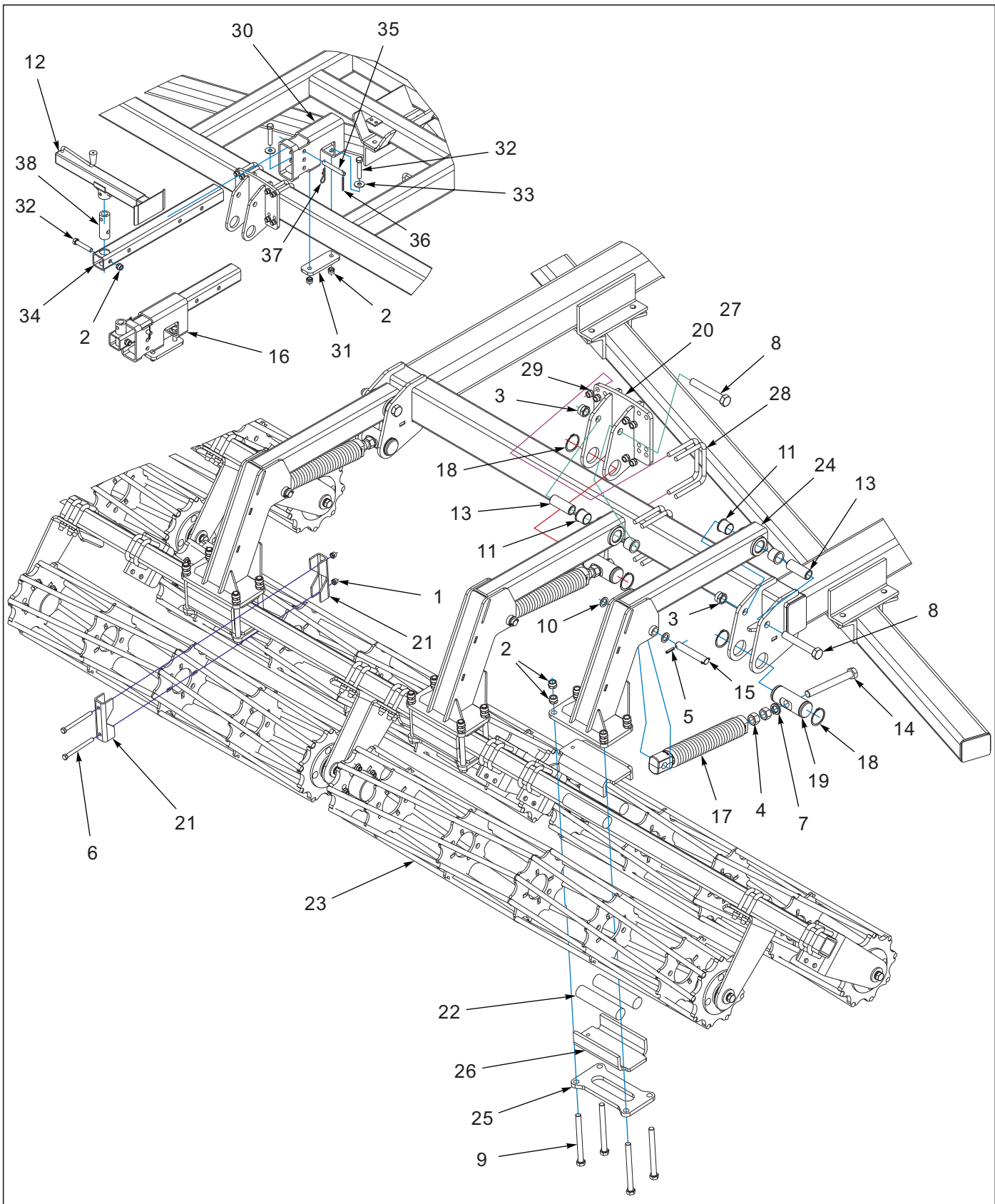


Figure 8-35: Double Reel Assembly 6231-30-33-36

Double Reel Assembly 6231-30-33-36

ITEM	PART NUMBER	DESCRIPTION	QTY.						
--	204517	DOUBLE ROUND REEL 6231-30 ASSY	*						
--	204518	DOUBLE ROUND REEL 6231-33 ASSY		*					
--	204519	DOUBLE ROUND REEL 6231-36 ASSY			*				
--	221190	DOUBLE FLAT REEL 6231-30 ASSY				*			
--	221191	DOUBLE FLAT REEL 6231-33 ASSY					*		
--	221192	DOUBLE FLAT REEL 6231-36 ASSY						*	
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4	4	4	4
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	56	56	72	56	56	72	72
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	7	7	9	7	7	9	9
4	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	14	14	18	14	14	18	18
5	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	14	14	18	14	14	18	18
6	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4	4	4	4
7	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	7	7	9	7	7	9	9
8	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	7	7	9	7	7	9	9
9	107491	SCREW HX CP 3/4-10X8-1/2 GR8	28	28	36	28	28	36	36
10	117957	MACHINERY BUSHING,ZINC PLATED	14	14	18	14	14	18	18
11	140599	BEARING, FLANGE 1-1/2"	14	14	18	14	14	18	18
12	140647	JACK, SIDE WIND 7000/8000 LB	1	--	1	1	--	1	1
13	152209	BUSHING, PIVOT 1-1/2	7	7	9	7	7	9	9
14	152210	BOLT, ADJ, 1 X 9	7	7	9	7	7	9	9
15	154392	PIN, PIVOT	7	7	9	7	7	9	9
16	156953	REAR JACK MOUNT ASSY	1	1	1	1	--	1	1
17	158795	SPRING ASSY, 17"	7	7	9	7	7	9	9
18	158896	SNAP RING, 2-1/2 SHAFT	14	14	18	14	14	18	18
19	158897	PIN, ADJUSTMENT	7	7	9	7	7	9	9
20	180164	ASSY, MOUNT-6" (INCLUDES ITEMS 27, 28, 29)	1	1	3	1	1	3	3
21	191487	CLAMP, TUBE 3X3	4	4	4	4	4	4	4
22	203525	SPRING-TORSION, RUBBER, 1-3/4	28	28	36	28	28	36	36
23	-----	DOUBLE REEL ASSY (SEE PAGE 8-73)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	204505	ARM WLDMT DOUBLE REEL	7	7	9	7	7	9	9
25	204510	PLATE GANGBAR MOUNT	7	7	9	7	7	9	9
26	204511	TUBE, CLAMP	14	14	18	14	14	18	18
27	180161	MOUNT, COIL TINE WLDMT	1	1	1	1	1	1	1
28	2-102-010032	U BOLT CENTER SHANK MT.	4	4	4	4	4	4	4
29	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8	8	8	8	8	8
30	156954	MOUNT, REAR JACK	1	1	1	1	--	1	1
31	156955	PLATE, REAR JACK	1	1	1	1	--	1	1
32	1-654-010061-13	SCREW,HX CP 3/4-10UNCX4 GR5	3	3	3	3	--	3	3
33	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2	2	2	2	--	2	2
34	156956	SQ TUBE, REAR JACK	1	1	1	1	--	1	1
35	2-557-010409	PIN, WING LOCK	1	1	1	1	--	1	1
36	0600-250-03000	1/4X3 ROLL PIN ZP	1	1	1	1	--	1	1
37	1-557-010013	PIN, HAIR 3/16 DIA	1	1	1	1	--	1	1
38	156957	TUBE JACK MOUNT	1	1	1	1	--	1	1

Double Hydraulic Reel Assembly 6231-21-23-26-29

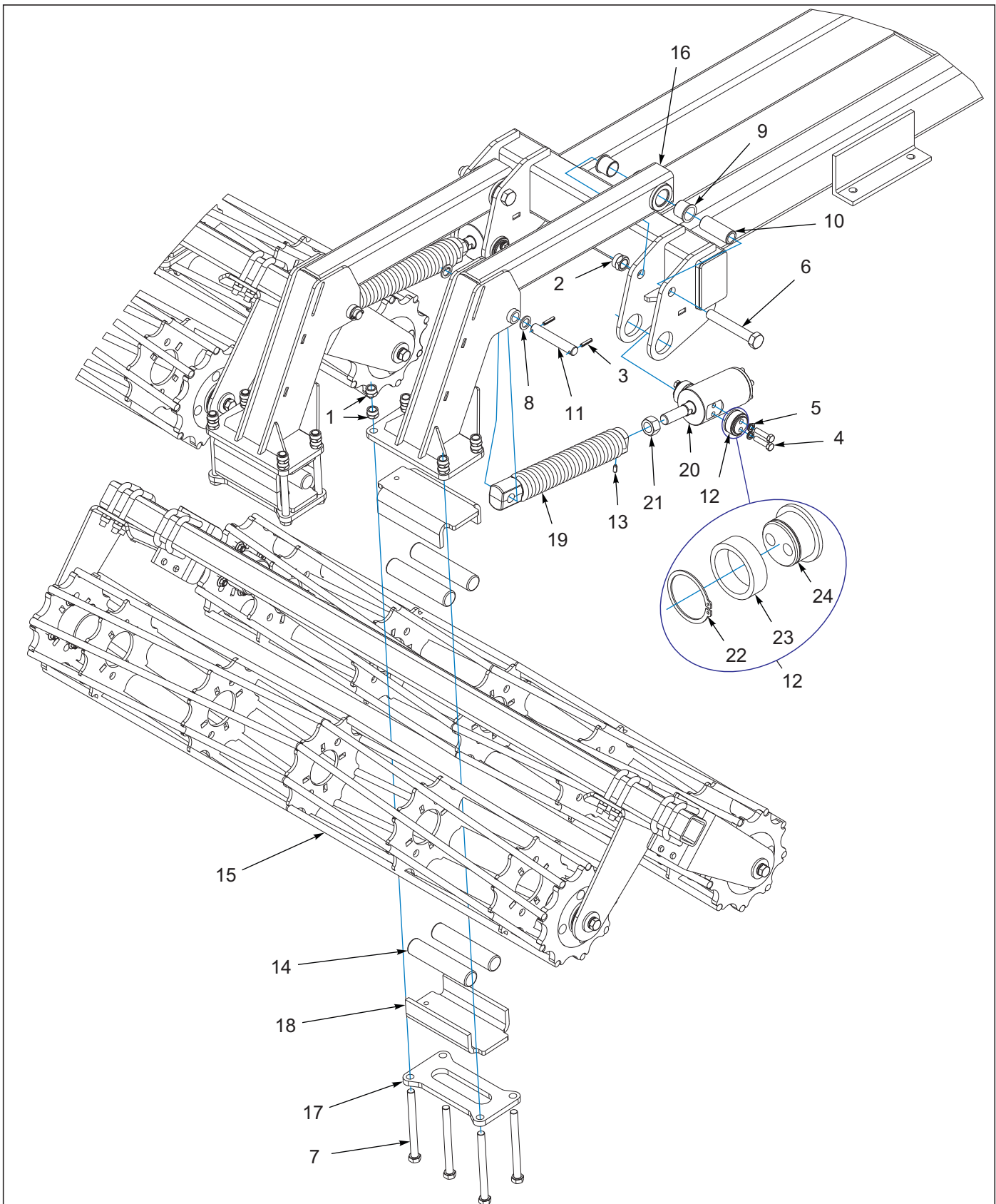


Figure 8-36: Double Hydraulic Reel Assembly 6231-21-23-26-29

Double Hydraulic Reel Assembly 6231-21-23-26-29

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	229798	HYD DOUBLE REEL ASSY 6231-21	
--	229750	HYD DOUBLE REEL ASSY 6231-26	
--	232493	HYD DBL RD REEL ASSY 6231-29	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	48
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	6
3	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	12
4	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	24
5	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	24
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	6
7	107491	SCREW HX CP 3/4-10X8-1/2 GR8	24
8	117957	MACHINERY BUSHING,ZINC PLATED	12
9	140599	BEARING, FLANGE 1-1/2"	12
10	152209	BUSHING, PIVOT 1-1/2	6
11	154392	PIN, PIVOT	6
12	198320	ASSY, TRUNION MOUNT 1-1/4" (INCLUDES ITEMS 22, 23, 24)	12
13	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	6
14	203525	SPRING-TORSION, RUBBER, 1-3/4	24
15	-----	DOUBLE REEL ASSEMBLIES (SEE PAGE 8-69)	N/A
16	204505	ARM WLDMT DOUBLE REEL	6
17	204510	PLATE GANGBAR MOUNT	6
18	204511	TUBE, CLAMP	12
19	206652	SPRING ASSY 17" 1-1/8 THD	6
20	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	6
21	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	6
22	188530	SNAP RING, 2 SHAFT	12
23	191925	TRUNION, BEARING	12
24	191924	TRUNION, CYLINDER	12

Double Hydraulic Reel Assembly 6231-30-33-36

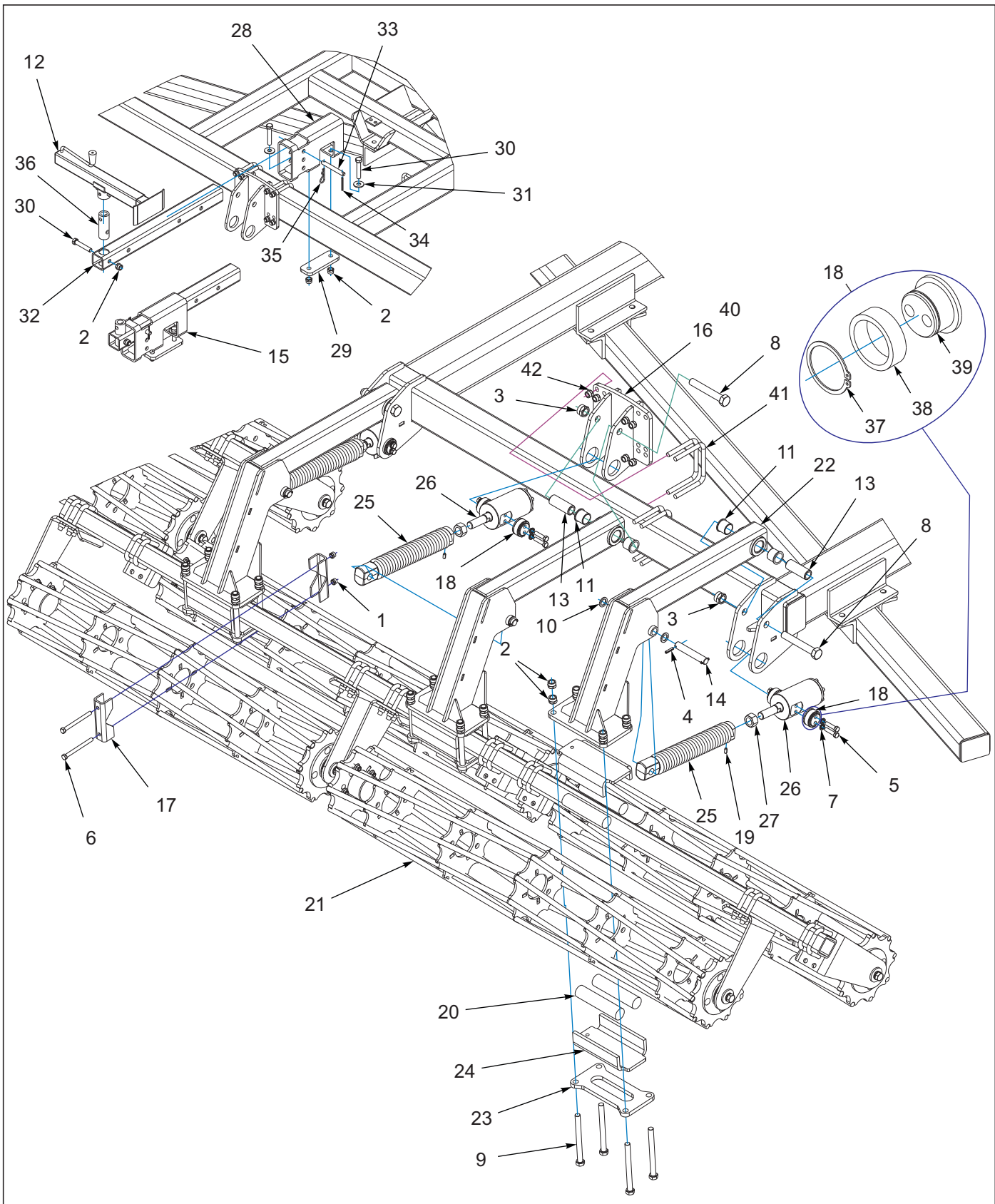


Figure 8-37: Double Hydraulic Reel Assembly 6231-30-33-36

Double Hydraulic Reel Assembly 6231-30-33-36

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	240692	HYD DBL RD REEL ASSY 6231-30	*		
--	232378	HYD DBL RD REEL ASSY 6231-33	*		
--	232459	HYD DBL REEL ASSY 6231-36	*		
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	8
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	56	56	72
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	7	7	9
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	14	14	18
5	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	28	28	36
6	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4
7	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	28	28	36
8	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	7	7	9
9	107491	SCREW HX CP 3/4-10X8-1/2 GR8	28	28	36
10	117957	MACHINERY BUSHING,ZINC PLATED	14	14	18
11	140599	BEARING, FLANGE 1-1/2"	14	14	18
12	140647	JACK, SIDE WIND 7000/8000 LB	--	--	1
13	152209	BUSHING, PIVOT 1-1/2	7	7	9
14	154392	PIN, PIVOT	7	7	9
15	156953	REAR JACK MOUNT ASSY	1	1	1
16	180164	ASSY, MOUNT-6" (INCLUDES ITEMS 40, 41, 42)	1	1	3
17	191487	CLAMP, TUBE 3X3	4	4	4
18	198320	ASSY, TRUNION MOUNT 1-1/4" (INCLUDES ITEMS 37, 38, 39)	14	14	18
19	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	7	7	9
20	203525	SPRING-TORSION, RUBBER, 1-3/4	28	28	36
21	-----	DOUBLE REEL ASSY (SEE PAGES 8-69 & 8-73)	N/A	N/A	N/A
22	204505	ARM WLDMT DOUBLE REEL	7	7	9
23	204510	PLATE GANGBAR MOUNT	7	7	9
24	204511	TUBE, CLAMP	14	14	18
25	206652	SPRING ASSY 17" 1-1/8 THD	7	7	9
26	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM (SEE PAGE 5-10)	7	7	9
27	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	7	7	9
28	156954	MOUNT, REAR JACK	1	1	1
29	156955	PLATE, REAR JACK	1	1	1
30	1-654-010061-13	SCREW,HX CP 3/4-10UNCX4 GR5	3	3	3
31	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2	2	2
32	156956	SQ TUBE, REAR JACK	1	1	1
33	2-557-010409	PIN, WING LOCK	1	1	1
34	0600-250-03000	1/4X3 ROLL PIN ZP	1	1	1
35	1-557-010013	PIN, HAIR 3/16 DIA	1	1	1
36	156957	TUBE JACK MOUNT	1	1	1
37	188530	SNAP RING, 2 SHAFT	14	14	18
38	191925	TRUNION, BEARING	14	14	18
39	191924	TRUNION, CYLINDER	14	14	18
40	180161	MOUNT, COIL TINE WLDMT	1	1	3
41	2-102-010032	U BOLT CENTER SHANK MT.	4	4	12
42	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8	24

Double Reel Assembly Round

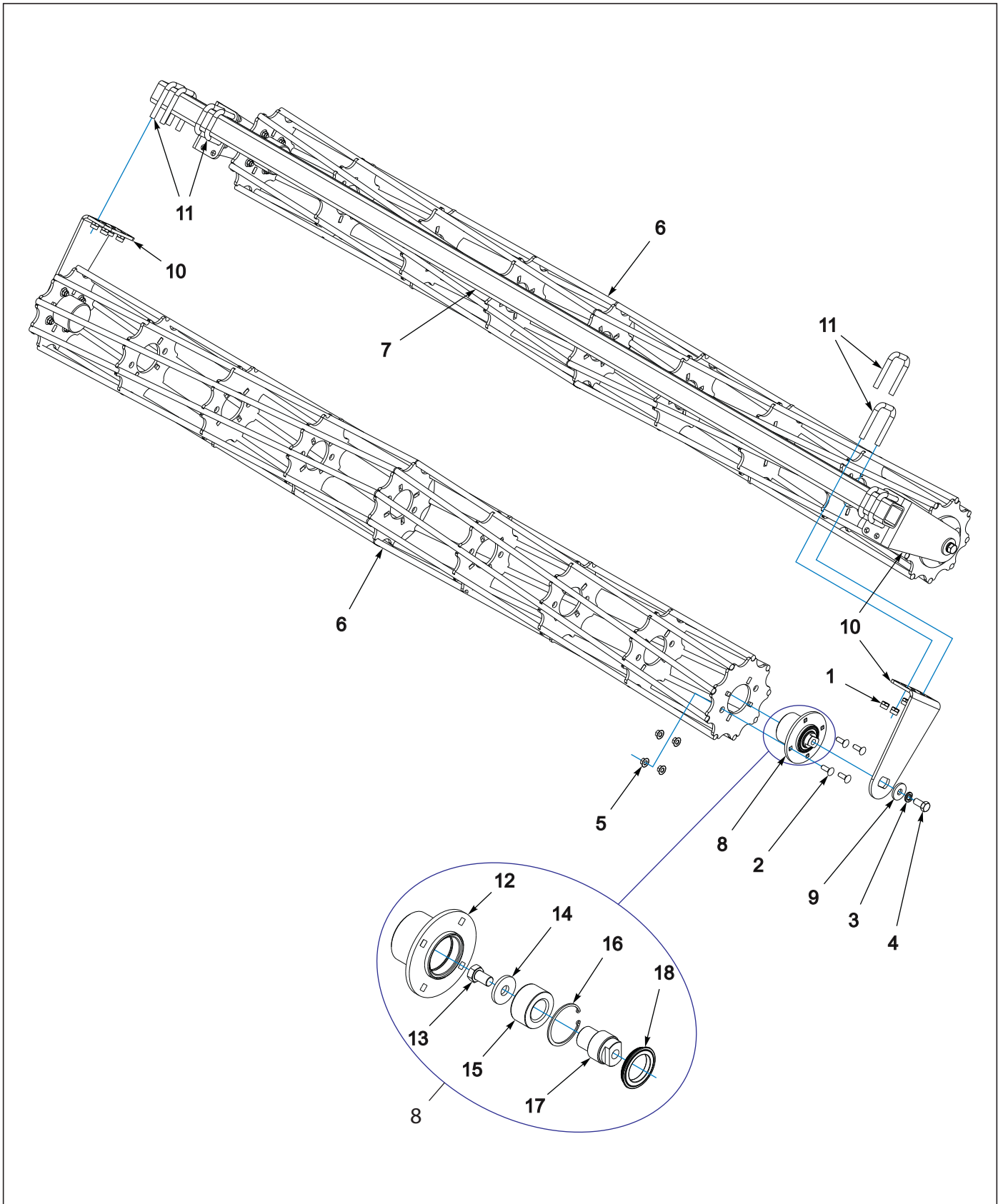


Figure 8-38: Double Reel Assembly Round

Double Reel Assembly Round

ITEM	PART NUMBER	DESCRIPTION	QTY.									
--	204413	DOUBLE REEL ASSY, 105/120 (CENTER)	*									
--	204416	DOUBLE REEL ASSY, 75/75 (LEFT WING)		*								
--	204417	DOUBLE REEL ASSY, 90/90 (LEFT WING)			*							
--	204418	DOUBLE REEL ASSY, 105/105 (LEFT WING)				*						
--	204419	DOUBLE REEL ASSY, 120/120 (LEFT WING)					*					
--	204422	DOUBLE REEL ASSY, 75/75 (RIGHT WING)						*				
--	204423	DOUBLE REEL ASSY, 90/90 (RIGHT WING)							*			
--	204424	DOUBLE REEL ASSY, 105/105 (RIGHT WING)								*		
--	204425	DOUBLE REEL ASSY, 120/120 (RIGHT WING)									*	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16	16	16	16	16	16	16	16	16
2	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	16	16	16	16	16	16	16	16	16	16
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4	4	4	4	4	4	4	4	4
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	4	4	4	4	4	4	4	4	4	4
5	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16	16	16	16	16	16	16	16	16
6	225124	REEL WLDMT, 12 DIA X 75" RD	--	2	--	--	--	2	--	--	--	--
6	225125	REEL WLDMT, 12 DIA X 90" RD	--	--	2	--	--	--	2	--	--	--
6	225126	REEL WLDMT, 12 DIA X 105" RD	1	--	--	2	--	--	--	2	--	--
6	225127	REEL WLDMT, 12 DIA X 120" RD	1	--	--	--	2	--	--	--	2	--
7	190955	GANG BAR, DOUBLE REEL 85L	--	1	--	--	--	1	--	--	--	--
7	190956	GANG BAR, DOUBLE REEL 100L	--	--	1	--	--	--	1	--	--	--
7	190957	GANG BAR, DOUBLE REEL 115L	--	--	--	1	--	--	--	1	--	--
7	190960	GANG BAR, DOUBLE REEL 122-1/2	1	--	--	--	--	--	--	--	--	--
7	190958	GANG BAR, DOUBLE REEL 130L	--	--	--	--	1	--	--	--	--	1
8	200222	HUB ASSY REEL (INCLUDES ITEMS 12-18)	4	4	4	4	4	4	4	4	4	4
9	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4	4	4	4	4	4	4	4	4
10	204400	BEARING MOUNT, REEL	4	4	4	4	4	4	4	4	4	4
11	8-102-010012	U BOLT	8	8	8	8	8	8	8	8	8	8
12	200221	HUB WLDMT REEL	4	4	4	4	4	4	4	4	4	4
13	129263	SCREW HEX CAP 3/4-10 X 1-1/4	4	4	4	4	4	4	4	4	4	4
14	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4	4	4	4	4	4	4	4	4
15	174526	BEARING, DOUBLE TAPER RLLR	4	4	4	4	4	4	4	4	4	4
16	174532	INTERNAL SNAP RING	4	4	4	4	4	4	4	4	4	4
17	200218	SPINDLE REEL BEARING	4	4	4	4	4	4	4	4	4	4
18	185757	SEAL, MAINT FREE HUB HSL	4	4	4	4	4	4	4	4	4	4

Double Reel Assembly Flat

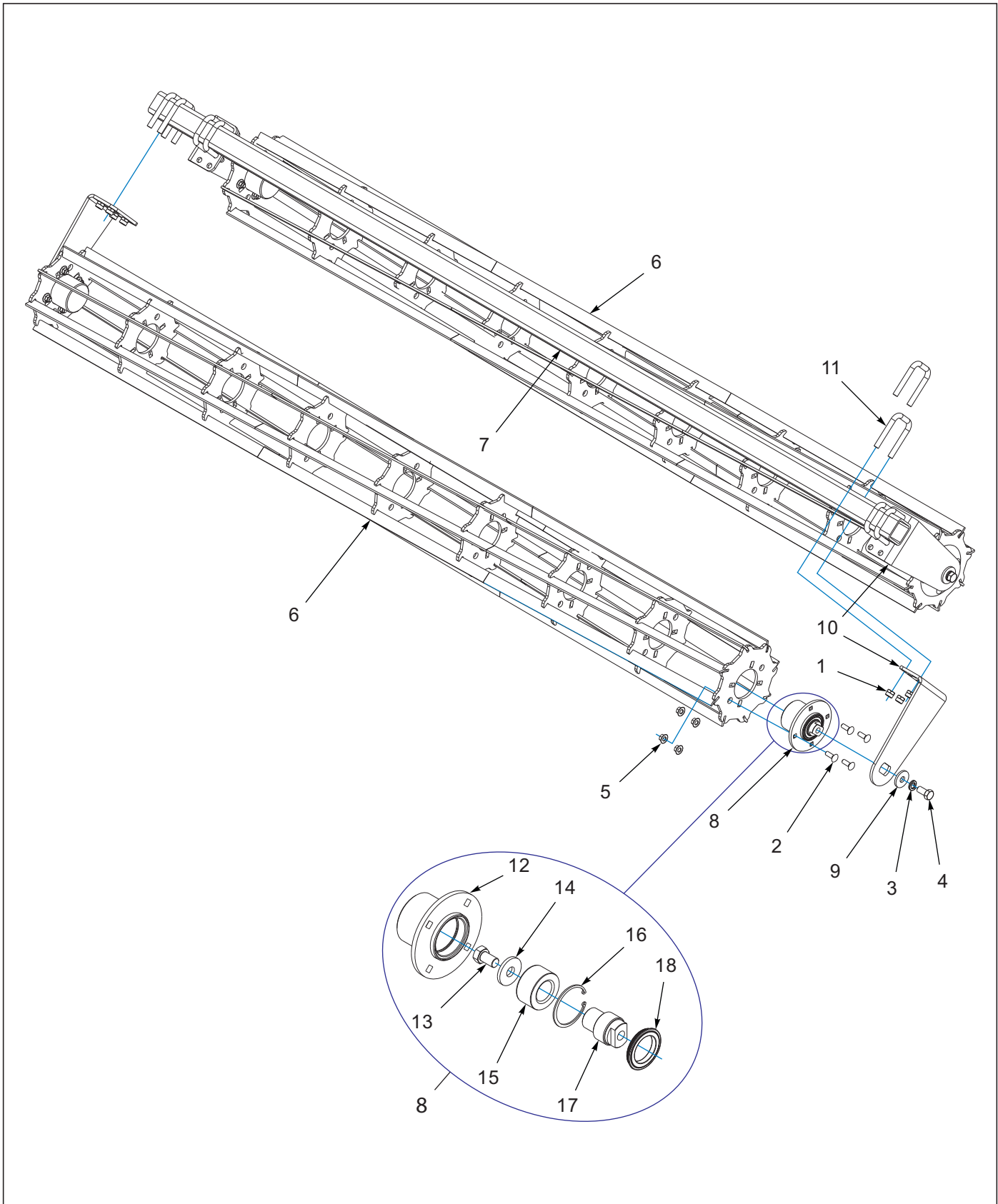


Figure 8-39: Double Reel Assembly Flat

Double Reel Assembly Flat

ITEM	PART NUMBER	DESCRIPTION	QTY.							
--	209626	DOUBLE REEL ASSY, 105/120 (CENTER)	*							
--	209629	DOUBLE FLAT REEL ASSY 75/75 (LEFT WING)		*						
--	209630	DOUBLE FLAT REEL ASSY 90/90 (LEFT WING)			*					
--	209631	DOUBLE FLAT REEL ASSY, 105/105 (LEFT WING)				*				
--	209632	DOUBLE FLAT REEL ASSY 120/120 (LEFT WING)					*			
--	209635	DOUBLE FLAT REEL ASSY 75/75 (RIGHT WING)						*		
--	209636	DOUBLE FLAT REEL ASSY 90/90 (RIGHT WING)							*	
--	209637	DOUBLE FLAT REEL ASSY, 105/105 (RIGHT WING)								*
--	209638	DOUBLE FLAT REEL ASSY 120/120 (RIGHT WING)								*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16	16	16	16	16	16	16
2	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	16	16	16	16	16	16	16	16
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4	4	4	4	4	4	4
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	4	4	4	4	4	4	4	4
5	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16	16	16	16	16	16	16
6	200297	REEL, 12" DIA X 75" FLAT WLDMT	--	2	--	--	--	2	--	--
6	200298	REEL, 12" DIA X 90" FLAT WLDMT	--	--	2	--	--	--	2	--
6	200299	REEL,12" DIA X 105" FLAT WLDMT	1	--	--	2	--	--	--	2
6	209641	REEL, 12 DIA X 120" FLAT WLDMT	1	--	--	--	2	--	--	2
7	190955	GANG BAR, DOUBLE REEL 85L	--	1	--	--	--	1	--	--
7	190956	GANG BAR, DOUBLE REEL 100L	--	--	1	--	--	--	1	--
7	190957	GANG BAR, DOUBLE REEL 115L	--	--	--	1	--	--	--	1
7	190960	GANG BAR, DOUBLE REEL 122-1/2	1	--	--	--	--	--	--	--
7	190958	GANG BAR, DOUBLE REEL 130L	--	--	--	--	1	--	--	1
8	200222	HUB ASSY REEL (INCLUDES ITEMS 12-18)	4	4	4	4	4	4	4	4
9	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4	4	4	4	4	4	4
10	204400	BEARING MOUNT, REEL	4	4	4	4	4	4	4	4
11	8-102-010012	U BOLT	8	8	8	8	8	8	8	8
12	200221	HUB WLDMT REEL	4	4	4	4	4	4	4	4
13	129263	SCREW HEX CAP 3/4-10 X 1-1/4	4	4	4	4	4	4	4	4
14	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4	4	4	4	4	4	4
15	174526	BEARING, DOUBLE TAPER RLLR	4	4	4	4	4	4	4	4
16	174532	INTERNAL SNAP RING	4	4	4	4	4	4	4	4
17	200218	SPINDLE REEL BEARING	4	4	4	4	4	4	4	4
18	185757	SEAL, MAINT FREE HUB HSL	4	4	4	4	4	4	4	4

Double Reel Assembly 6231-30-33-36

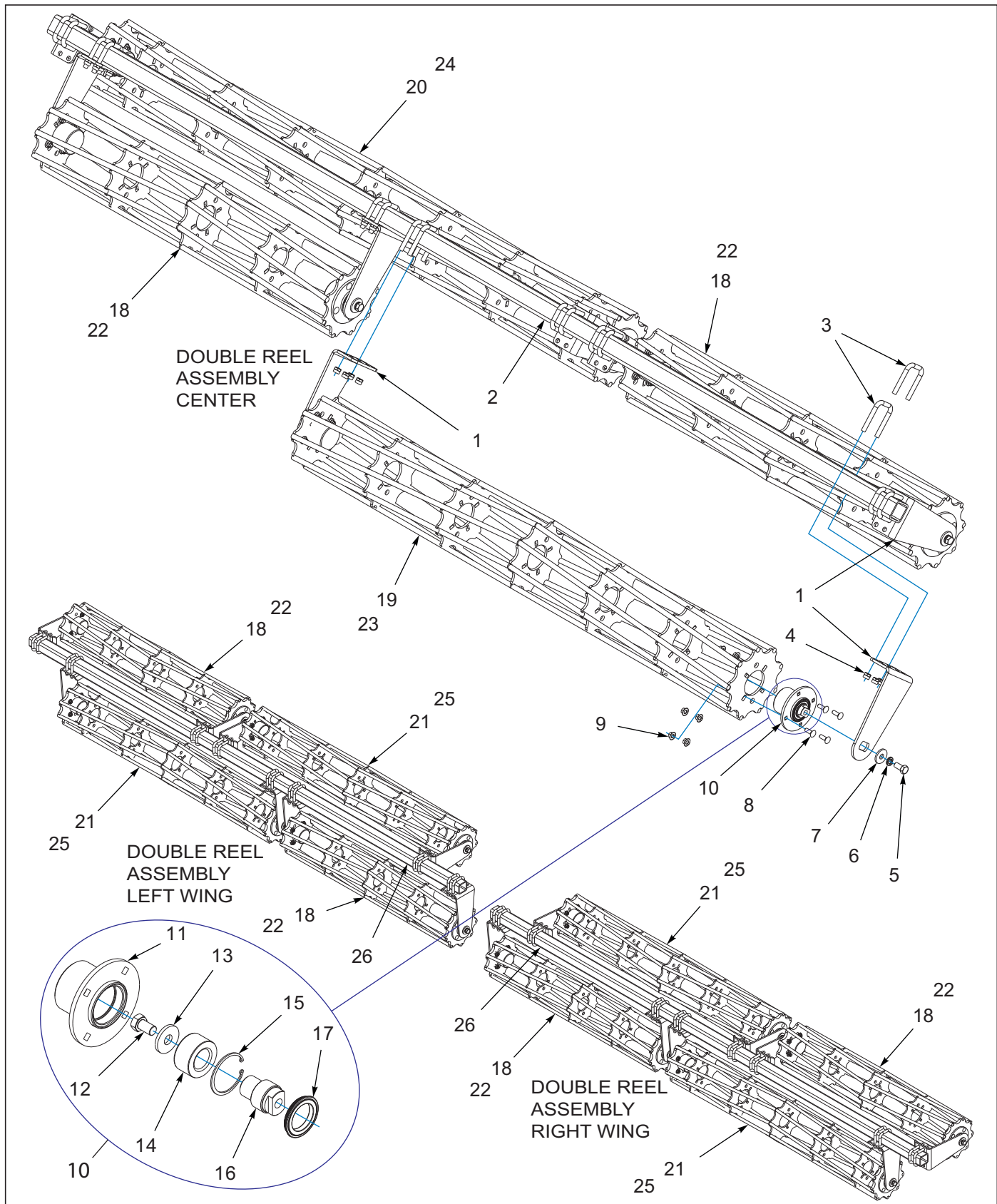


Figure 8-40: Double Reel Assembly 6231-30-33-36

Double Reel Assembly 6231-30-33-36

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	204427	DOUBLE REEL ASSY ROUND (CENTER 6231-30-33-36)	*					
--	232462	DOUBLE REEL ASSY, 135/135 (LEFT WING 6231-36)		*				
--	232461	DOUBLE REEL ASSY, 135/135 (RIGHT WING 6231-36)			*			
--	209639	DOUBLE FLAT REEL ASSY 105/165 (CENTER 6231-30-33-36)				*		
--	236791	DOUBLE FLAT REEL ASSY, 135/135 (LEFT WING 6231-36)					*	
--	236790	DOUBLE FLAT REEL ASSY, 135/135 (RIGHT WING 6231-36)						*
1	204400	BEARING MOUNT, REEL	8	8	8	8	8	8
2	191998	GANG BAR, DOUBLE REEL 174L	1	--	--	1	--	--
3	8-102-010012	U BOLT	16	16	16	16	16	16
4	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	32	32	32	32	32	32
5	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	8	8	8	8	8	8
6	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	8	8	8	8	8	8
7	200259	WASHER, 3/4 HEAVY - 2-1/4	8	8	8	8	8	8
8	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4 (USED WITH ROUND REEL)	32	--	32	32	--	--
8	1-654-010070-03	SCREW RDHD SQNK1/2-13X1-1/2 (USED WITH FLAT REEL)	--	32	--	--	32	32
9	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	32	32	32	32	32	32
10	200222	HUB ASSY REEL (INCLUDES ITEMS 11-17)	8	8	8	8	8	8
11	200221	HUB WLDMT REEL	4	4	4	4	4	4
12	129263	SCREW HEX CAP 3/4-10 X 1-1/4	4	4	4	4	4	4
13	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4	4	4	4	4
14	174526	BEARING, DOUBLE TAPER RLLR	4	4	4	4	4	4
15	174532	INTERNAL SNAP RING	4	4	4	4	4	4
16	200218	SPINDLE REEL BEARING	4	4	4	4	4	4
17	185757	SEAL, MAINT FREE HUB HSL	4	4	4	4	4	4
18	225123	REEL WLDMT, 12 DIA X 60" RD	2	2	2	--	--	--
19	225125	REEL WLDMT, 12 DIA X 90" RD	1	--	--	--	--	--
20	225126	REEL WLDMT, 12 DIA X 105" RD	1	--	--	--	--	--
21	225124	REEL WLDMT, 12 DIA X 75" RD	--	2	2	--	--	--
22	200296	REEL, 12" DIA X 60" FLAT WLDMT	--	--	--	2	2	2
23	200298	REEL, 12" DIA X 90" FLAT WLDMT	--	--	--	1	--	--
24	200299	REEL,12" DIA X 105" FLAT WLDMT	--	--	--	1	--	--
25	200297	REEL, 12" DIA X 75" FLAT WLDMT	--	--	--	--	2	2
26	232463	GANG BAR, DOUBLE REEL 154 L	--	1	1	--	1	1

Double Reel Assembly Wing 6231-33

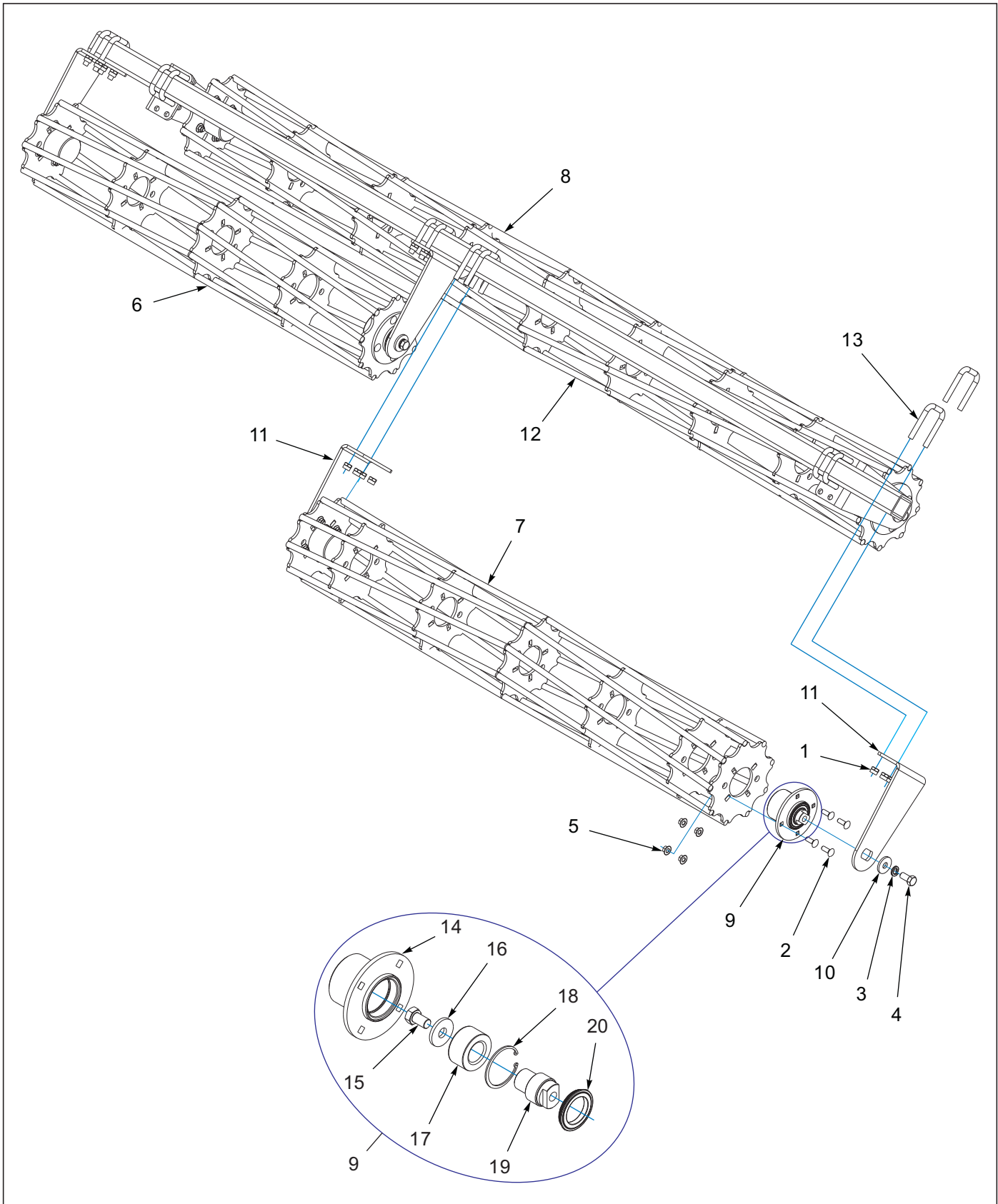


Figure 8-41: Double Reel Assembly Wing 6231-33

Double Reel Assembly Wing 6231-33

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	204520	DOUBLE REEL ASSY, 120/135	*	
--	213756	DBL FLAT REEL ASSY, 120/135	*	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	24	24
1	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4 (USED WITH ROUND REEL)	24	--
2	1-654-010070-03	SCREW RDHD SQNK1/2-13X1-1/2 (USED WITH FLAT REEL)	--	24
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	6	6
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	6	8
5	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	24	24
6	225123	REEL WLDMT, 12 DIA X 60" RD	1	--
6	200296	REEL WLDMT 12" DIA X 60" FLAT	--	1
7	225124	REEL WLDMT, 12 DIA X 75" RD	1	--
7	200297	REEL WLDMT 12" DIA X 75" FLAT	--	1
8	225127	REEL WLDMT, 12 DIA X 120" RD	1	--
8	209641	REEL, 12 DIA X 120" FLAT WLDMT	--	1
9	200222	HUB ASSY REEL (INCLUDES ITEMS 14-20)	6	6
10	200259	WASHER, 3/4 HEAVY - 2-1/4	6	6
11	204400	BEARING MOUNT, REEL	6	6
12	204521	GANG BAR DOUBLE REEL 142-1/2"	1	1
13	8-102-010012	U BOLT	12	12
14	200221	HUB WLDMT REEL	6	6
15	129263	SCREW HEX CAP 3/4-10 X 1-1/4	6	6
16	200259	WASHER, 3/4 HEAVY - 2-1/4	6	6
17	174526	BEARING, DOUBLE TAPER RLLR	6	6
18	174532	INTERNAL SNAP RING	6	6
19	200218	SPINDLE REEL BEARING	6	6
20	185757	SEAL, MAINT FREE HUB HSL	6	6

Spare Tire Assembly 6231-21-29

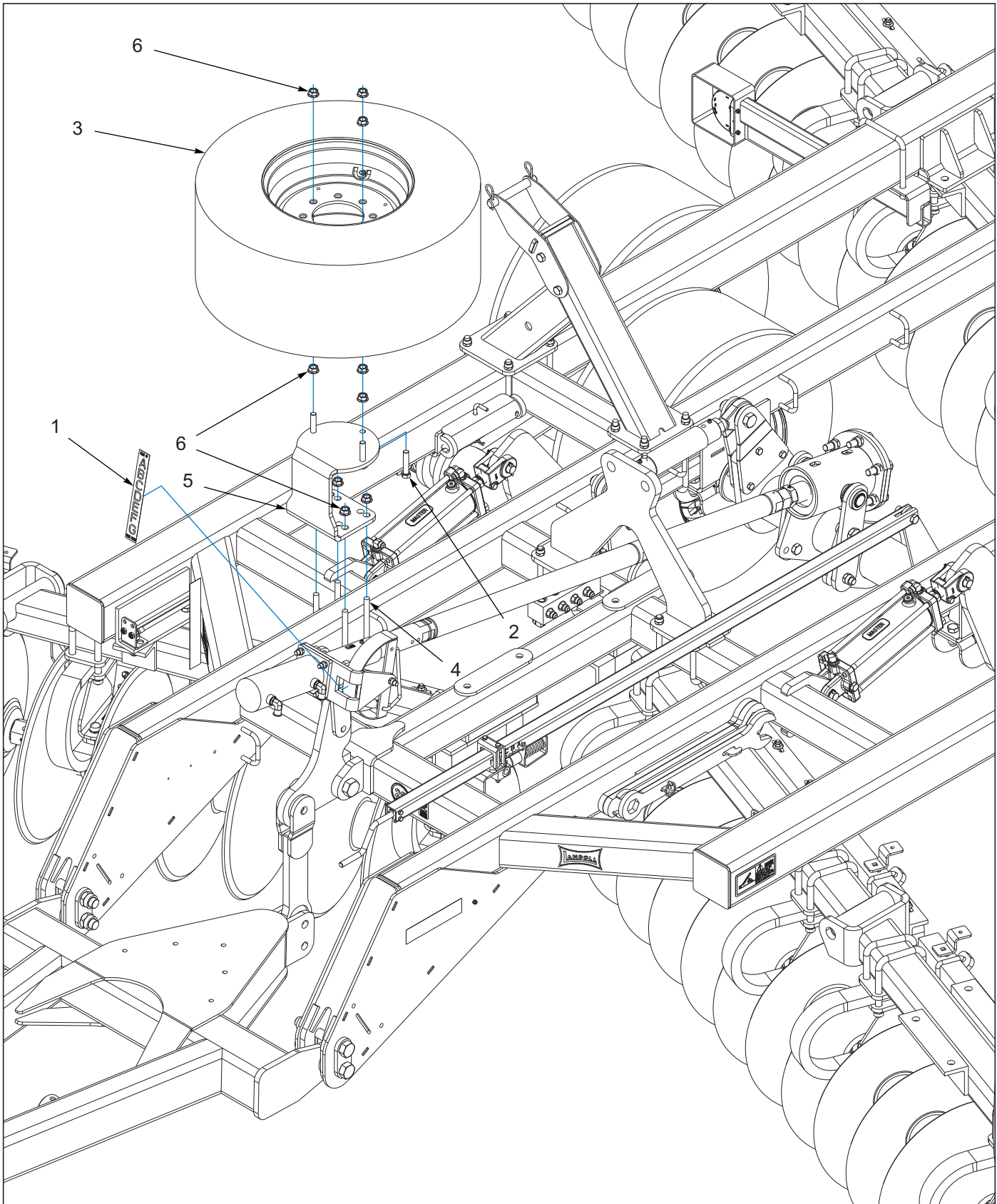


Figure 8-42: Spare Tire Assembly 6231-21-29

Spare Tire Assembly 6231-21-29

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	208223	MOUNT ASSY TIRE 8-BOLT 4X6 (6231-21-23)	*	
--	208222	MOUNT ASSY TIRE 8-BOLT 4X6 (6231-26-29)	*	
1	141263	DECAL, LEVEL INDICATOR	1	1
2	164147	SCREW HX CAP5/8-11X3 2-1/2THD	3	3
3	184708	TIRE ASSY,320/70R15,8 BOLTWHL	1	--
3	221272	BKT 380 TIRE&WHL ASSY POS 1.5"	--	1
4	2-102-010037	U-BOLT CENTER SCRAPER	2	2
5	208213	MOUNT, TIRE 8-BOLT	1	1
6	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	10	10

Spare Tire Assembly 6231-30-33-36

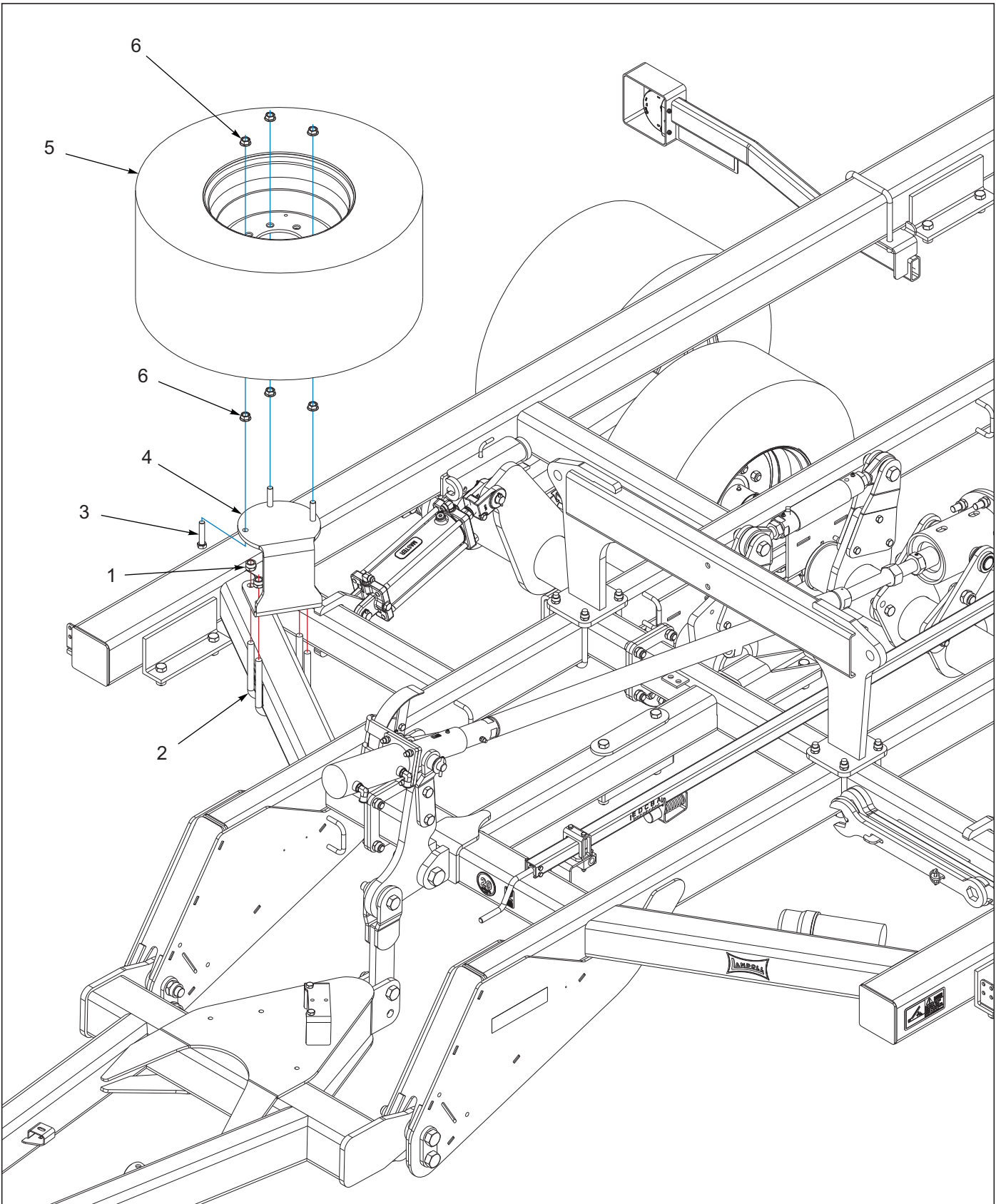


Figure 8-43: Spare Tire Assembly 6231-30-33-36

Spare Tire Assembly 6231-30-33-36

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	243730	MOUNT ASSY, 410 TIRE 8-BLT 5X5	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
2	140484	U-BOLT, 3/4 X 5	2
3	164147	SCREW HX CAP5/8-11X3 2-1/2THD	3
4	208213	MOUNT, TIRE 8-BOLT	1
5	215351	TIRE&WHL ASSY, VF410/50R16.5	1
6	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	6

Rear Hitch Assembly Long

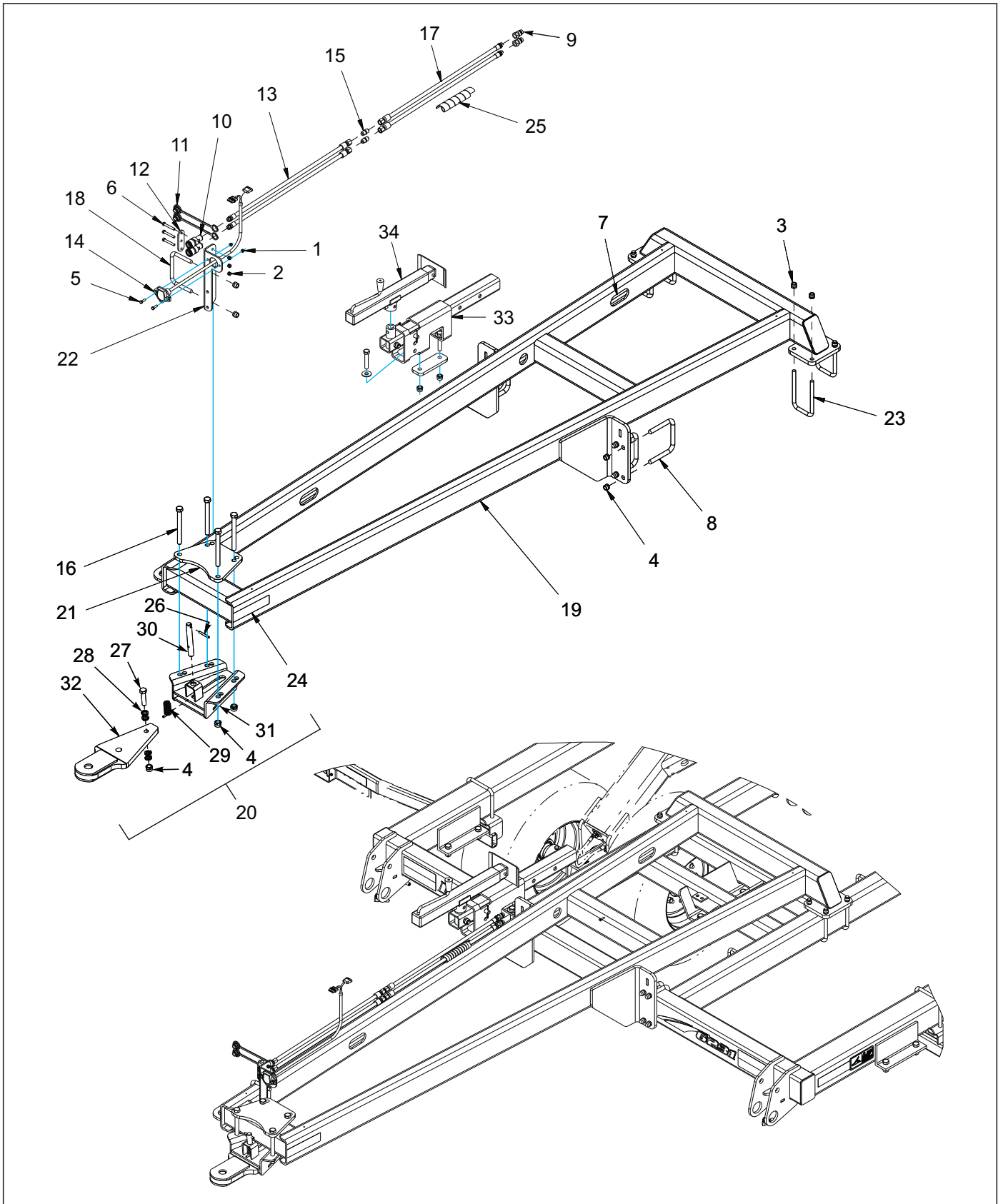


Figure 8-44: Rear Hitch Assembly Long

Rear Hitch Assembly Long

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	198264	LONG REAR TOW HITCH ASSEMBLY	
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
3	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	10
4	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	12
5	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	2
6	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	3
7	1-822-010001	TRIM 1350 3/8BLK FINE PEBBLE	3
8	111392	U-BOLT, GAUGE WHEEL 1550	4
9	141828	COUPLER,MALE 3/4-16 O-RING	2
10	142668	COUPLER FEMALE 3/4-16 O-RING	2
11	142669	PLUG, COUPLER DUST	2
12	142671	PLATE, COUPLER	1
13	142712	HOSE ASSY 3/8X175#8JICX#80R	2
14	143871	HARNESS, TANDEM ADAPTER	1
15	148338	FITTING, UNION SAE 37 8X8	2
16	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	4
17	188774	HOSE ASSY,3/8#8JICX#8ORB 270"	2
18	189433	U-BOLT, 5/8X6-11/16X4-1/2	1
19	195648	HITCH, REAR TOW	1
20	197742	HITCH ASSY, REAR TOW (ITEMS 4, & 26-32)	1
21	198259	MOUNTING PLATE, 6 HOLE	1
22	198265	BRACKET, COUPLER MOUNT	1
23	2-102-010037	U-BOLT CENTER SCRAPER	4
24	528934	REFLECTOR - YELLOW	2
25	155530	HOSE, WRAP YELLOW	1
26	1-647-010004240	PIN, SPRING SLOTTED 5/16 X 2-1/2	2
27	1-654-010061-09	SCREW, HEX 3/4-10UNC X 3, GR5	1
28	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4
29	162191	SPRING, COMP 1.218 X 2.5	1
30	168773	PIN, REAR TOW HITCH	1
31	197743	MOUNT, REAR TOW HITCH	1
32	197746	HITCH, REAR TOW, RIGID	1
33	156953	REAR JACK MOUNT (SEE PAGE 8-83)	1
34	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-20)	1

Rear Jack Assembly

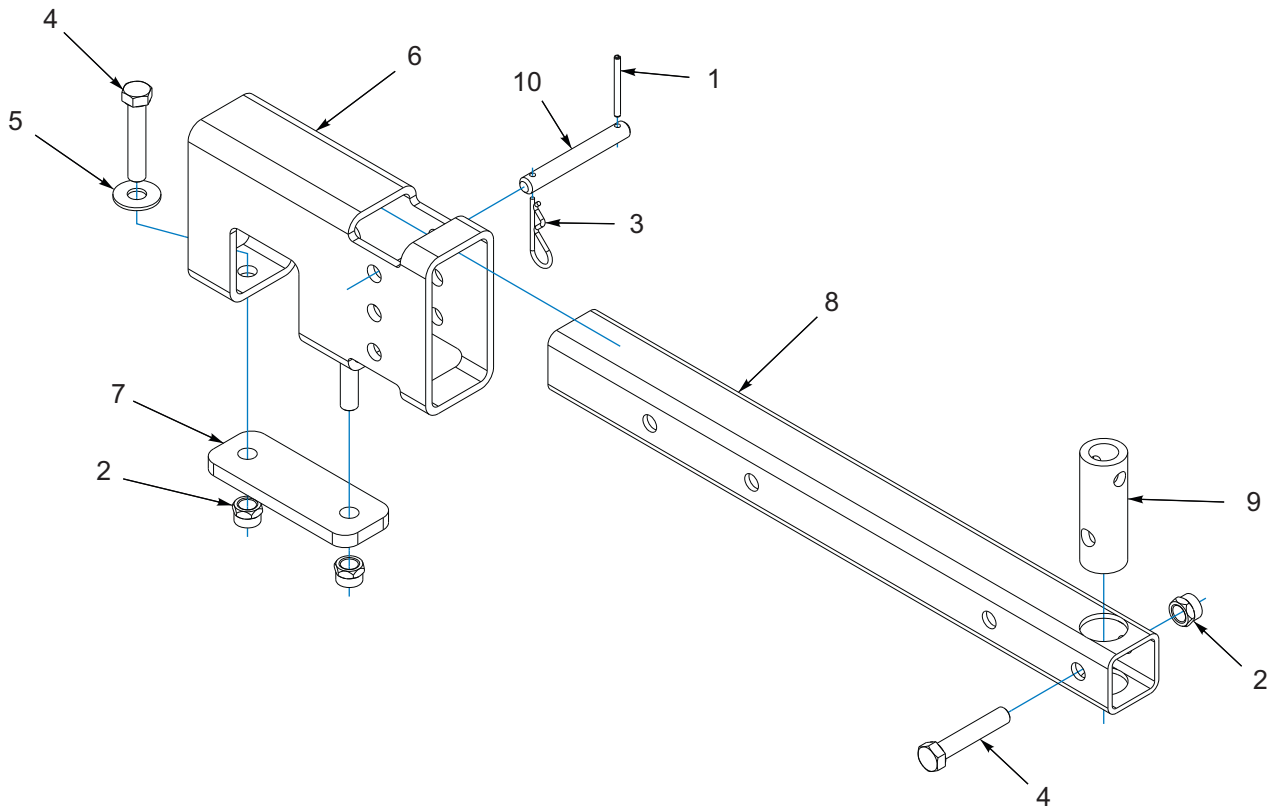


Figure 8-45: Rear Jack Assembly

Rear Jack Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	156953	REAR JACK MOUNT	
1	0600-250-03000	ROLL PIN, SLOTTED 1/4 X 3	1
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	3
3	1-557-010013	PIN, HAIR 3/16	1
4	1-654-010061-13	SCREW, HEX HEAD CAP 3/4-10 x 4 GR5	3
5	1-861-010032-21	WASHER, FLAT 3/4W	2
6	156954	MOUNT, REAR JACK	1
7	156955	PLATE, REAR JACK MOUNT	1
8	156956	SQ. TUBE, REAR JACK	1
9	156957	TUBE, JACK MOUNT	1
10	2-557-010409	PIN, WING LOCK	1

Rear Tow Hitch Assembly Straight

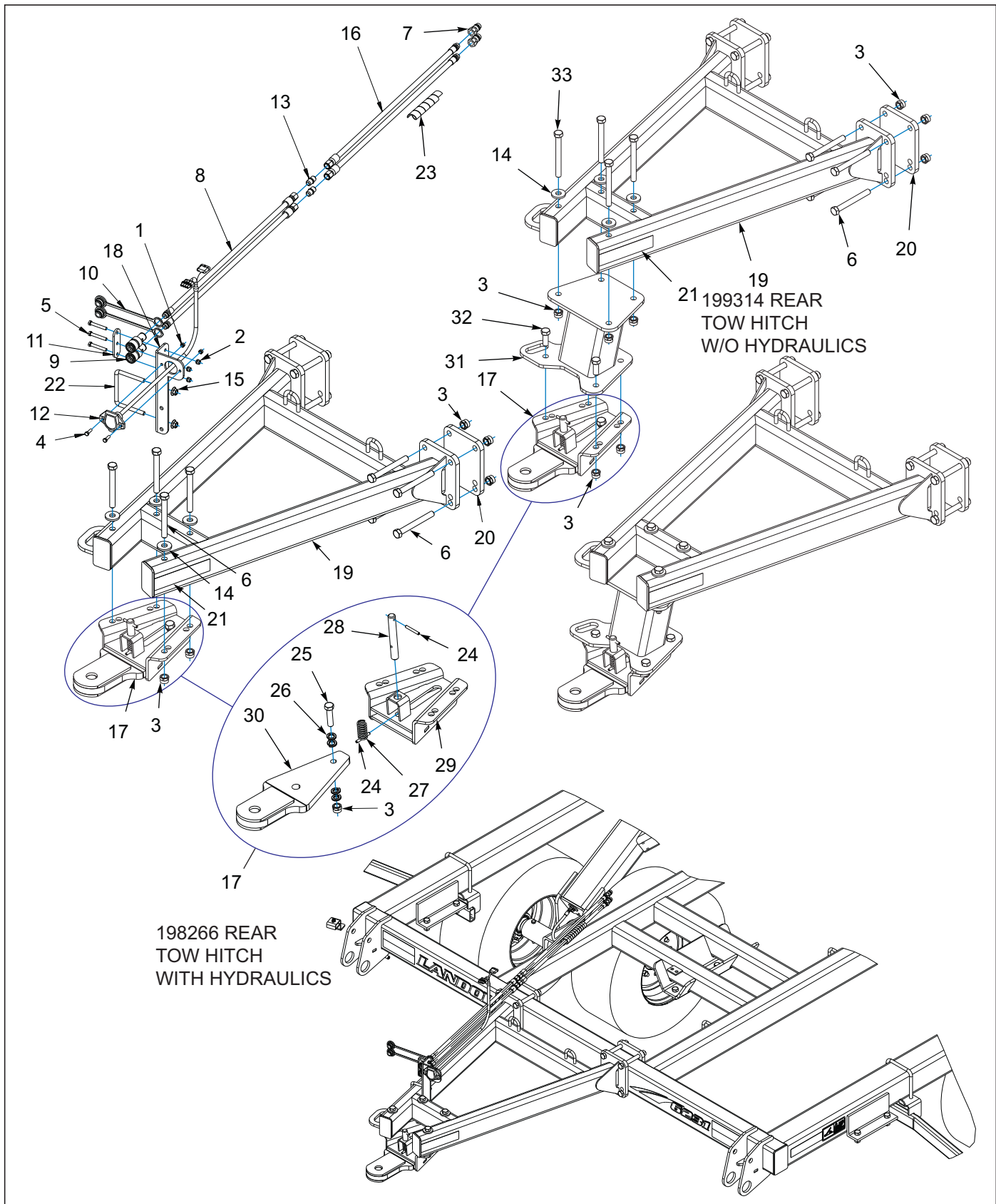


Figure 8-46: Rear Tow Hitch Assembly Straight

Rear Tow Hitch Assembly Straight

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	198266	REAR TOW HITCH - STRAIGHT	*	
--	199314	HITCH ASSY DROP REAR W/O HYD	*	
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2	--
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3	--
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	13	16
4	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	2	--
5	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	3	--
6	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	12	8
7	141828	COUPLER,MALE 3/4-16 O-RING	2	--
8	141922	HOSE ASSY 3/8X120 #8 JICX#80R	2	--
9	142668	COUPLER FEMALE 3/4-16 O-RING	2	--
10	142669	PLUG, COUPLER DUST	2	--
11	142671	PLATE, COUPLER	1	--
12	143871	HARNESS, TANDEM ADAPTER	1	--
13	148338	FITTING, UNION SAE 37 8X8	2	--
14	168750	WASHER FLAT 3/4	4	4
15	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	2	--
16	188774	HOSE ASSY,3/8#8JICX#8ORB 270"	2	--
17	197742	HITCH ASSY, REAR TOW (ITEMS 3, & 24-30)	1	1
18	198265	BRACKET, COUPLER MOUNT	1	--
19	198267	HITCH, STR REAR TOW	1	1
20	198268	MOUNTING PLATE, REAR TOW HITCH	2	2
21	528934	REFLECTOR - YELLOW	2	2
22	7K858	U-BOLT 1/2-13X5-1/2 X 4-1/4	1	--
23	155530	HOSE, WRAP YELLOW	1	--
24	1-647-010004240	PIN, SPRING SLOTTED 5/16 X 2-1/2	2	2
25	1-654-010061-09	SCREW, HEX 3/4-10UNC X 3, GR5	1	1
26	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4	4
27	162191	SPRING, COMP 1.218 X 2.5	1	1
28	168773	PIN, REAR TOW HITCH	1	1
29	197743	MOUNT, REAR TOW HITCH	1	1
30	197746	HITCH, REAR TOW, RIGID	1	1
31	201797	EXTENSION, HITCH DROP	--	1
32	1-654-010061-05	SCREW,HHCS,3/4-10UNCX2,GR5,ZP	--	4
33	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	--	4

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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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

See Figure 11-1.

SERIAL NUMBER

The serial number is located on the identification plate.

The Following information will help decode the 6231 Disc serial number.

62H2410100 = xxmyysssss

QR CODE DECAL

The 6200 series QR code decal, may be scanned to link you to the most current manuals, located on the front of the frame *See Figure 11-1.*

xx	= model series (i.e. 62 for Disc)
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.

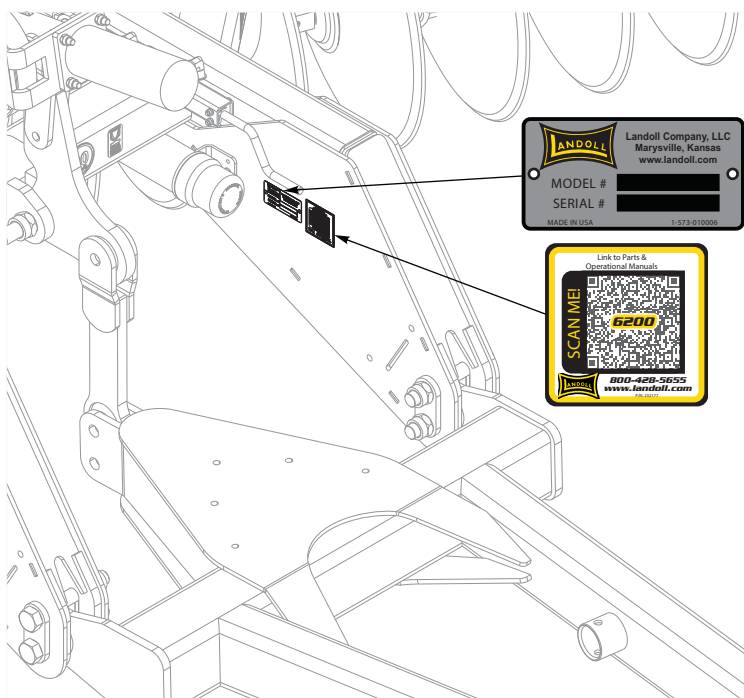


Figure 11-1: Identification Plate and Location

Manuals for 6231 Disc

Manual Number	Manual Type
F-832	Operator's Manual
F-833	Parts Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
02/28/2017	F-833-0217	Initial Release
11/27/2018	F-833-1118	Walking beam revision & cylinders updated
05/22/2020	F-833-0520	Updated hub/spindle assembly, tire/wheel assembly, hydraulic reel manifolds.
08/07/2020	F-833-0820	Updated walking beam assemblies.
03/23/2022	F-833-0322	Added QR decal, SIS 20mph to rear of machine, updated decal pages, updated 7" disc gang placement drawings, updated lift and tire.
07/18/2023	F-833-2307	Updated frame, lift, hitch and hydraulic pages, added new electrical drawing with frame, added new double reel and chevron flat reel attachments, added spare tire assembly drawings.
12/16/2024	F-833-2411	Prince cylinder update, Chapter 3 Disc Gang updated.
05/21/2025	F-833-2505	Added hitch leveler updates, added 247227 crushing hazard decal



intertek

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

Model 6231

Disc

Parts Manual

Re-Order Part Number F-833

LANDOLL COMPANY, LLC

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