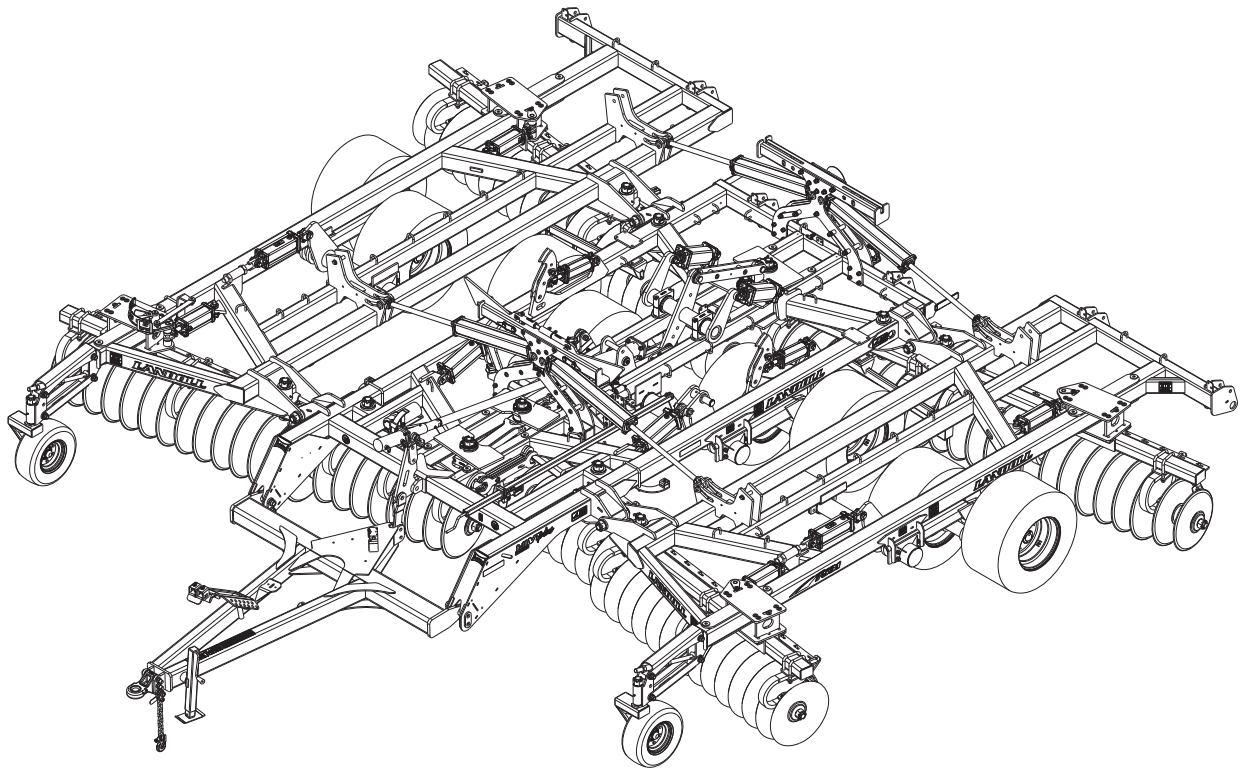




Model 7531

Adjustable VT Plus

Parts Manual



LANDOLL COMPANY, LLC

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ WWW.LANDOLL.COM

Instructions for Ordering Parts

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

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

Fax #: 888-527-3909

Order online: dealer.landoll.com

IDENTIFICATION PLATE

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

See Figure 1-1.

SERIAL NUMBER NOMENCLATURE

The Following information will help decode the 7531 Adj. VT Plus serial number

75H2500100 = xxmysssss

The 7500 series QR code decal, may be scanned to link to the most current manuals, located on the front of the frame *See Figure 1-1.*

xx	= model series (i.e. 75 for Adjustable VT Plus)
m	= month of manufacture (ex. "H" means October. The letter I is not used.)
yy	= year manufactured (ex. "25" means 2025)
sssss	= Sequential number used to track warranty and service information.

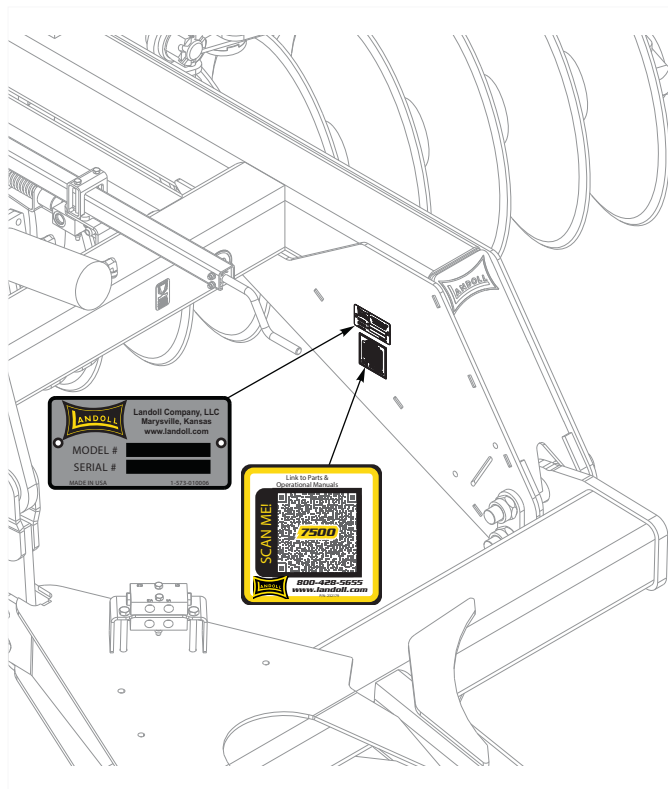


Figure 1-1: Data Plate and QR Code Decal Location

Manuals for 7531 VT Plus

Manual Number	Manual Type
F-1188	Operator's Manual
F-1189	Parts Manual

Table of Contents

1 Frame Assemblies Center

Frame Assembly 23'-26'-29'	1-1
Frame Assembly 32'-35'	1-3
Frame Assembly Lift 7531-23'-29'	1-5
Frame Assembly Lift 7531-32'-35'	1-9
Walking Tandem Assembly	1-13
Dual Wheel Scraper Assembly	1-15
Radius Rod Lift Assembly	1-16
Depth Stop Assembly	1-17
Lift Lock Assembly	1-18
Hub/Spindle Assembly, Center	1-19
Hub/Spindle Assembly Center (Dual Wheels)	1-21

2 Hitches

Hitch Assembly	2-1
Hydraulic Leveler Assembly	2-3
Ball & Clevis Assembly	2-5
Jack Assembly	2-6
Leveler Spring Tube Assembly	2-7

3 Frame Assemblies Wing

Frame Assembly Wing	3-1
Hub/Spindle Assembly, Wings	3-3
Gauge Wheel Assembly	3-5
Hub/Spindle Assembly 224600	3-7

4 Disc Gang Assemblies

Disc Gang Assembly	4-1
Gang Adjust Assembly Center	4-3
Gang Assembly Center	4-5
Gang Assembly Wing 23'	4-7
Gang Assembly Wing 7531-26'-35'	4-9
Gang Wing Gauge Assembly 7531-23'	4-11
Gang Wing Gauge Assembly 7531-26'-35'	4-13
Disc Gang Assembly 7531-23'	4-15
Disc Gang Assembly 7531-26'	4-17
Disc Gang Assembly 7531-29'	4-19
Disc Gang Assembly 7531-32'	4-21
Disc Gang Assembly 7531-35'	4-23
Disc Bearing Assembly	4-25

5 Hydraulic Assemblies

Hydraulic Assembly Lift 7531-23'-26'-29'	5-1
Hydraulic Assembly Lift 7531-32'-35'	5-3
Fold Stabilizer Assembly 7531-23'	5-5

Wing Fold Stabilizer Assembly 7531-23'	5-7
Fold Stabilizer Assembly 7531-26'-35'	5-9
Wing Fold Stabilizer Assembly 7531-26'-29' Front	5-11
Wing Fold Stabilizer Assembly 7531-26'-29' Rear	5-13
Wing Fold Stabilizer Assembly 7531-32'-35' Front	5-15
Wing Fold Stabilizer Assembly 7531-32'-35' Rear	5-17
Hydraulic Assembly Fold 7531-23'	5-19
Hydraulic Assembly Fold 7531-26'-29' (Before S/N 75K2501921)	5-21
Hydraulic Assembly Fold 7531-26'-29' (After S/N 75K2501921)	5-23
Hydraulic Assembly Fold 7531-32'-35' (Before S/N 75K2501921)	5-25
Hydraulic Assembly Fold 7531-32'-35' (After S/N 75K2501921)	5-27
Hydraulic Assembly Gang 7531-23'	5-29
Hydraulic Assembly Gang 7531-26'-29'	5-31
Hydraulic Assembly Gang 7531-32'-35'	5-33
Hydraulic Assembly Leveler	5-35
Manifold Assembly Front 7531-23'	5-37
Manifold Assembly Front 7531-26'/29' Before	5-39
Manifold Assembly Front 7531-26'/29' After	5-40
Manifold Assembly Rear 7531-26'/29' Before	5-41
Manifold Assembly Rear 7531-26'/29' After	5-42
Manifold Assembly Front 7531-32'-35' Before	5-43
Manifold Assembly Front 7531-32'-35' After	5-44
Manifold Assembly Front 7531-32'-35'	5-45
Manifold Assembly Rear 7531-32'-35' Before	5-47
Manifold Assembly Rear 7531-32'-35' After	5-48

6 Cylinders

Cylinder Assembly 4 x 10 Rephase (Prince)	6-1
Cylinder Assembly 4 x 10 Rephase (Midway)	6-2
Cylinder Assembly 4-1/2 x 10 Rephase (Prince)	6-3
Cylinder Assembly 4-1/2 x 10 Rephase (Midway)	6-4
Cylinder Assembly 4-1/2 x 8 Rephase (Prince)	6-5
Cylinder Assembly 4-1/2 x 8 Rephase (Midway)	6-6
Cylinder Assembly 4 x 8 Rephase	6-7
Cylinder Assembly 3-3/4 x 8 Rephase	6-8
Cylinder Assembly 3-1/4 x 8 Rephase (Prince)	6-9
Cylinder Assembly 3-1/4 x 8 Rephase (Midway)	6-10
Cylinder Assembly 3-1/2 x 8 Rephase (Prince)	6-11
Cylinder Assembly 3-1/2 x 8 Rephase (Midway)	6-12
Cylinder Assembly 3-3/4 x 10 Rephase (Prince)	6-13
Cylinder Assembly 3-3/4 x 10 Rephase (Midway)	6-14
Cylinder Assembly 3-1/2 x 8, Rephase (Prince)	6-15
Cylinder Assembly 3-1/2 x 8, Rephase (Midway)	6-16
Cylinder Assembly 3-1/4 x 8, Rephase (Prince)	6-17
Cylinder Assembly 3-1/4 x 8, Rephase (Midway)	6-18
Cylinder Assembly 4 x 10 Rephase (Prince) (1-1/4" Clevis Pins)	6-19
Cylinder Assembly 4 x 10 Rephase (Midway) (1-1/4" Clevis Pins)	6-20
Cylinder Assembly 4-1/2 x 30	6-21

Cylinder Assembly 4 x 30 (Prince)	6-22
Cylinder Assembly 4 x 30 (Midway)	6-23
Cylinder Assembly 3-1/2 x 6	6-24
Cylinder Assembly 2-1/2 x 2-1/2	6-25
Cylinder Assembly 1-1/2 x 1-1/2	6-26

7 Electrical

Electrical Assembly W/LED Lights	7-1
--	-----

8 Decals

Decals	8-1
--------------	-----

9 Attachments

STD Round Reel Assembly 7531-23'-29'	9-1
STD Round Reel Assembly 7531-32'-35'	9-3
Double Round Reel Assembly 7531-23'-29'	9-5
Double Flat Assembly 7531-23'-29'	9-7
Double Round Reel Assembly 7531-32'-35'	9-9
Double Flat Reel Assembly 7531-32'-35'	9-11
Double Flat/Round Reel Assembly 7531-23'-29'	9-13
Double Flat/Round Reel Assembly 7531-32'-35'	9-15
Std Single Arm Assembly	9-17
Std Single Arm Assembly	9-19
Std Single Arm W/Stop Assembly	9-21
Hydraulic Single Arm Assembly	9-23
Hydraulic Single Arm W/Stop Assembly	9-25
Std Double Arm Assembly	9-27
Std Double Arm W/Stop Assembly	9-29
Hydraulic Double Arm Assembly	9-31
Hydraulic Double Arm W/Stop Assembly	9-33
Conditioner Reel/Gangbar Assembly	9-35
Double Reel Assembly 7531-23'-29' Center	9-37
Double Reel Assembly 7531-32'-35' Center	9-39
Double Flat/RD Reel Assembly 7531-23'-29' Center	9-41
Double Flat/RD Reel Assembly 7531-32'-35' Center	9-43
Double Round Reel Assembly 7531-23'-32' Wings	9-45
Double Flat Reel Assembly 7531-23'-32' Wings	9-47
Double Reel Assembly 7531-35' Wings	9-49
Double Flat/RD Reel Assembly 7531-23'-32' Wings	9-51
Double Flat/RD Reel Assembly 7531-35' Wings	9-53
Reel Hydraulic Assembly	9-55

10 Glossary

11 Index

Frame Assemblies Center

Frame Assembly 23'-26'-29'

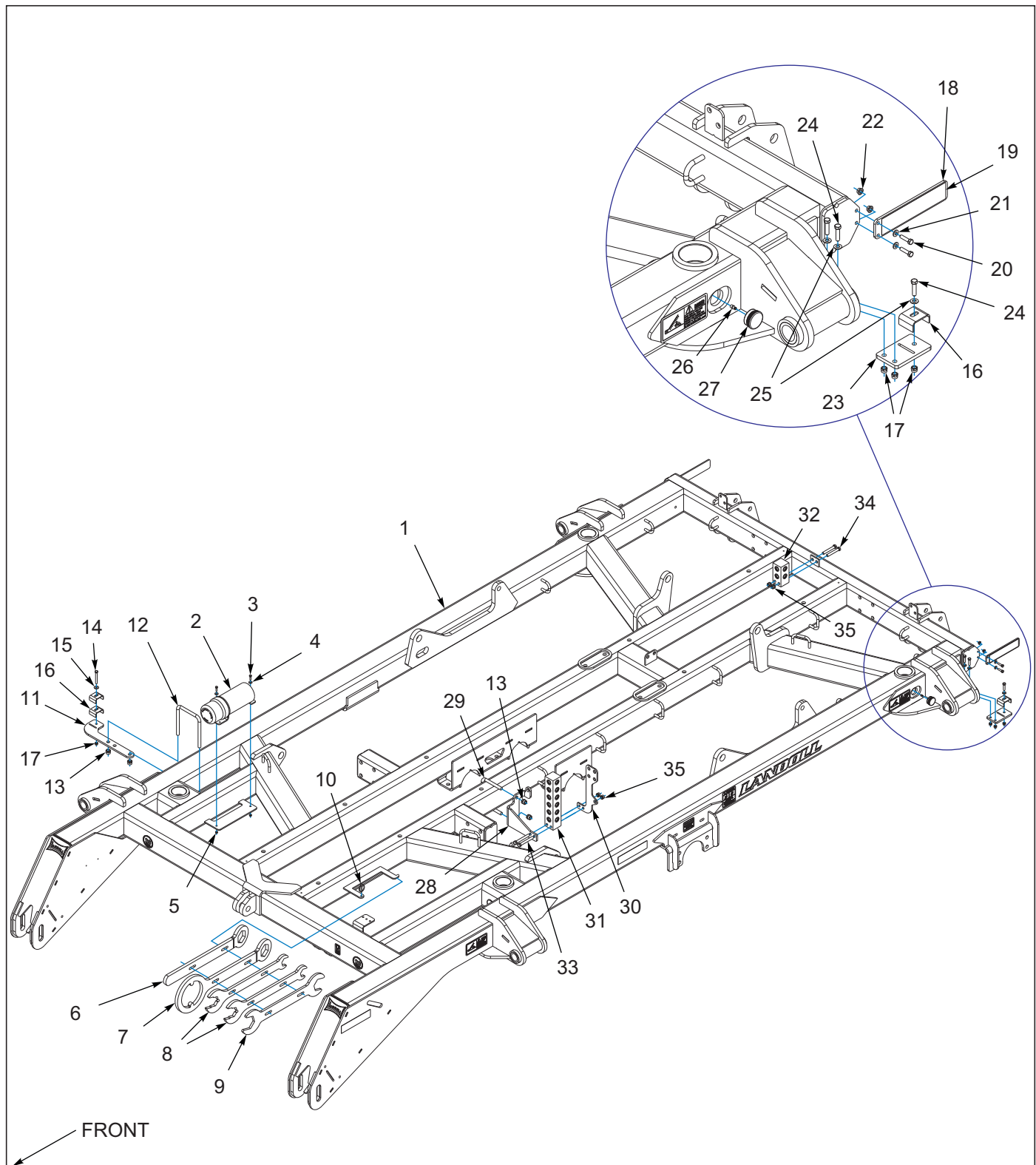


Figure 1-1: Frame Assembly 23'-26'-29'

Frame Assembly 23'-26'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249821	CENTER, FRAME NC WELD	1
2	150076	MANUAL TUBE (4-1/4"ID)	1
3	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
4	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
5	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
6	140533	GANG WRENCH	1
7	219788	GANG WRENCH, DOUBLE SIDE	1
8	141109	WRENCH, ADJUSTMENT	2
9	219789	WRENCH, GANG ADJ	1
10	70239854	PIN QUICK HITCH	1
11	251998	PLATE, HOSE MOUNT SHORT	1
12	141269	U-BOLT, WING STABILIZER	1
13	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
14	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	1
15	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
16	2-181-010001	HOSE CLAMP	4
17	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	7
18	250297	ASSY, YELLOW REFLECTOR	2
19	528934	REFLECTOR - YELLOW	2
20	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	4
21	1-861-010032-08	'WASHER,FLAT 5/16 N ZP	4
22	1-510-010004-03	NUT HX FLANGE, 5/16-18 GR8	4
23	209726	PLATE, HOSE MOUNT (USED WITH HYDRAULIC REELS ONLY)	2
24	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	6
25	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	4
26	171024	FITTING, GREASE 5/16-24 STR	4
27	189284	PLUG,PLASTPANEL1-3/4&1-13/16	4
28	253594	PLATE, MANIFOLD/BULKHEAD	1
29	2-102-010032	U BOLT CENTER SHANK MT.	1
30	253570	MOUNT, BULKHEAD HOSES	1
31	250288	MANIFOLD, FRONT 7531-26/29 (SEE PAGE 5-39)	1
32	250291	MANIFOLD, RR 7531-26/29 (SEE PAGE 5-41)	1
33	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2
34	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
35	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4

Frame Assembly 32'-35'

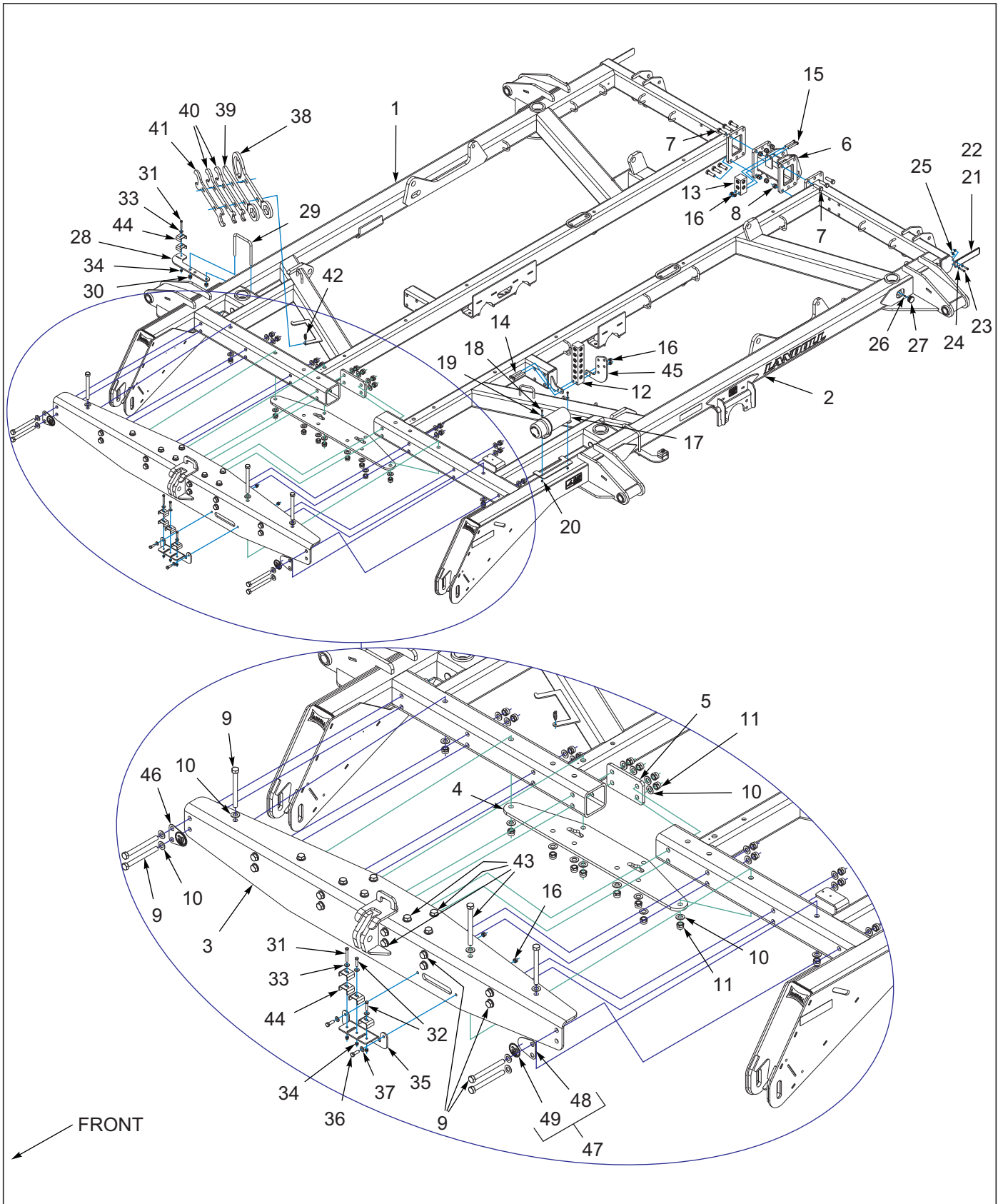


Figure 1-2: Frame Assembly 32'-35'

Frame Assembly 32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249822	FRAME, CTR RT HALF WC	1
2	249823	FRAME, CTR LT HALF WC	1
3	246885	MOUNT, FT CM & LEVELER	1
4	246886	PLATE, BOTTOM FRAME	1
5	246887	PLATE, CF FRONT	1
6	250221	MOUNT, REAR FRAME 11-1/2 L	1
7	1-654-010087-07	HHCS, 3/4-16UNFX2.5-GR8-ZP 5	12
8	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	13
9	114028	SCREW HX CAP 7/8X8-1/2 GR8	14
10	1-861-010032-22	WASHER,FL 7/8 ZP/CD	52
11	1-512-010005-17	NUT,HEX,SELF-LOCKING 7/8-9	26
12	250289	MANIFOLD, FRONT 7531-32/35 (SEE PAGE 5-44)	1
13	250292	MANIFOLD, RR 7531-32/35 (SEE PAGE 5-48)	1
14	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2
15	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
16	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	6
17	150076	MANUAL TUBE (4-1/4"ID)	1
18	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
19	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
20	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
21	250297	ASSY, YELLOW REFLECTOR	2
22	528934	REFLECTOR - YELLOW	2
23	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	4
24	1-861-010032-08	WASHER,FLAT 5/16 N ZP	4
25	1-510-010004-03	NUT HX FLANGE, 5/16-18 GR8	4
26	171024	FITTING, GREASE 5/16-24 STR	4
27	189284	PLUG,PLASTPANEL1-3/4&1-13/16	4
28	207873	PLATE, HOSE MOUNT LONG	2
29	141269	U-BOLT, WING STABILIZER	2
30	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4
31	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	4
32	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G5	4
33	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	5
34	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	5
35	250304	MOUNT, HYD HOSE	1
36	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2
37	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	2
38	219788	GANG WRENCH, DOUBLE SIDE	1
39	140533	GANG WRENCH	1
40	141109	WRENCH, ADJUSTMENT	2
41	219789	WRENCH, GANG ADJ	1
42	70239854	PIN QUICK HITCH	1
43	183735	SCREW HX HD CAP 7/8-9X9 GR8	12
44	2-181-010001	HOSE CLAMP	8
45	255064	MOUNT, BULKHEAD HOSES W/C	1
46	256073	ASSY, DECAL 20 RT (INCLUDES ITEMS 48-49)	1
47	256074	ASSY, DECAL 20 LT (INCLUDES ITEMS 48-49)	1
48	256072	PLATE, 20 MPH DECAL	2
49	144193	DECAL, SIS 20 MPH	2

Frame Assembly Lift 7531-23'-29'

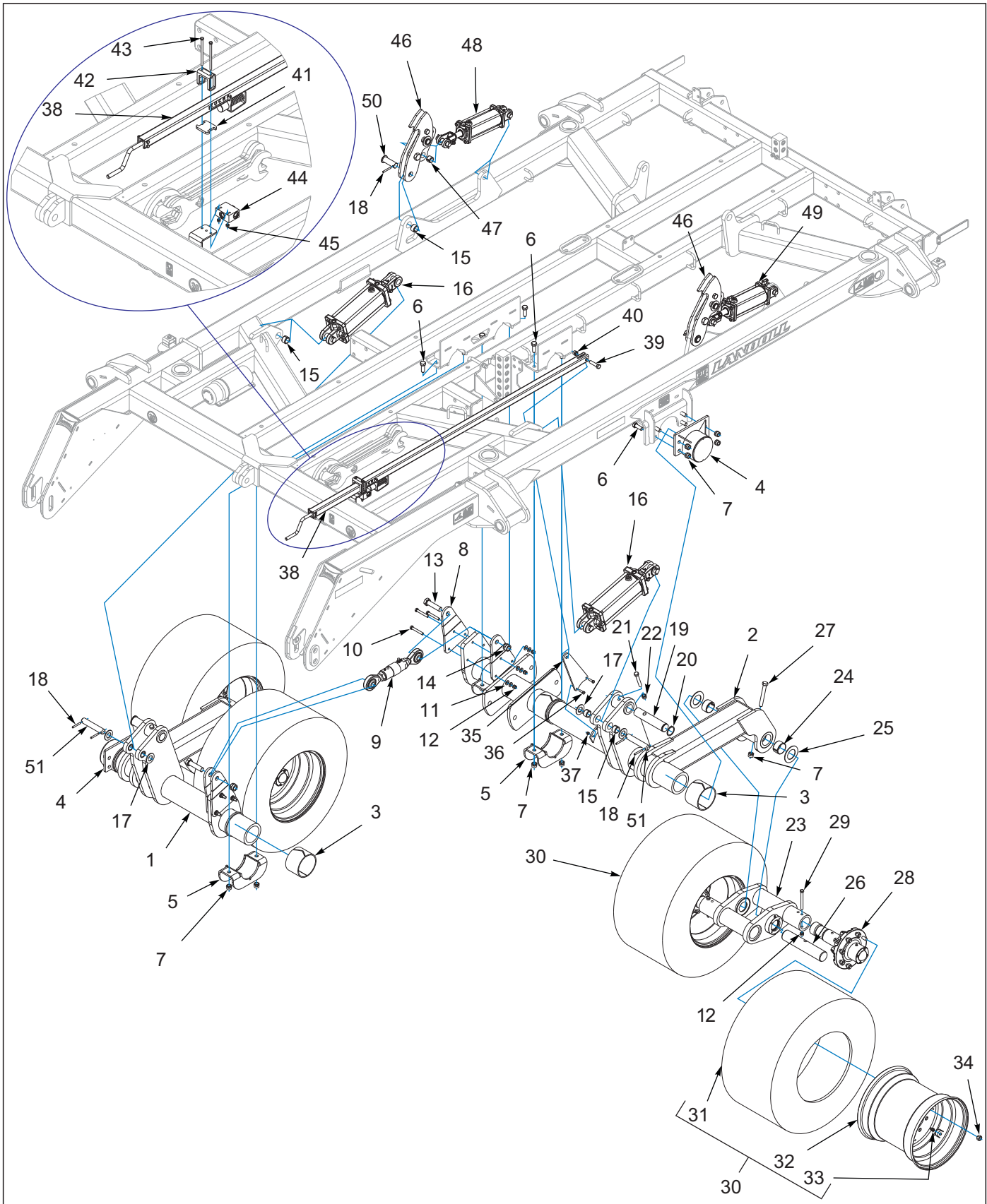


Figure 1-3: Frame Assembly Lift 7531-32'-35'

Frame Assembly Lift 7531-23'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249850	LIFT, CENTER RIGHT NC	1
2	249859	LIFT, CENTER LEFT NC	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	16
8	171063	PLATE, OFFSET	4
9	167568	RAD ROD ASSY, LIFT (SEE PAGE 1-16)	1
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	6
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	2-150-010174	BUSHING,1-5/8X1-1/4X1	8
16	247550	CYLINDER, 4-1/2 X 10, REPHASE (SEE PAGE 6-3)	2
17	116100	WASHER 1-1/4 NAR FL ZP/CD	4
18	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	6
19	253469	RD BAR, TRANSPORT LOCK	2
20	188530	SNAP RING, 2 SHAFT	2
21	1-654-010059-13	SCREW HEX CAP 5/8-11X4UNC GR5	2
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
23	223526	ASSY, WALKER 3SP/2-1/2 PIN (SEE PAGE 1-13)	2
24	198351	CONNEX, 2-3/4 X 2-1/2 X 1-1/2L	4
25	164563	WASHER, THRUST 2-1/2	4
26	223528	SPINDLE, WALKBEAM,2-1/2X12-1/2	2
27	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5	2
28	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 1-19)	4
29	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
30	193130	TIRE&WHEEL ASSY, 480/45R17 AG (INCLUDES ITEMS 31-33)	4
31	204386	TIRE, BKT VF 480/45R17	4
32	193131	WHEEL,17X16,POS.38OFFSET,8BOLT	4
33	TR575	VALVE STEM TUBELESS TIRE	4
34	102600	NUT,WHEEL BOLT, 5/8	32
35	164124	MOUNT, DEPTH CONTROL	1
36	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
37	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
38	229851	ASSY, DEPTH STOP 90 L (SEE PAGE 1-17)	1
39	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	1
40	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	1
41	165257	PAD, SLIDE	1
42	165265	GUIDE, DEPTH STOP	1
43	171556	SCREW,HEX CP,5/16-18UNCX5-1/2	2
44	203467	VALVE-LIMIT, STROKE	1
45	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
46	253470	ASSY, LIFT LOCK (SEE PAGE 1-18)	2
47	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2
48	247534	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGE 6-17)	1
49	247535	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGE 6-15)	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
50	226589	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	2
51	170291	PIN, 1-1/4 X 7	2

Table provided for general use.

[illegible]

Frame Assembly Lift 7531-32'-35'

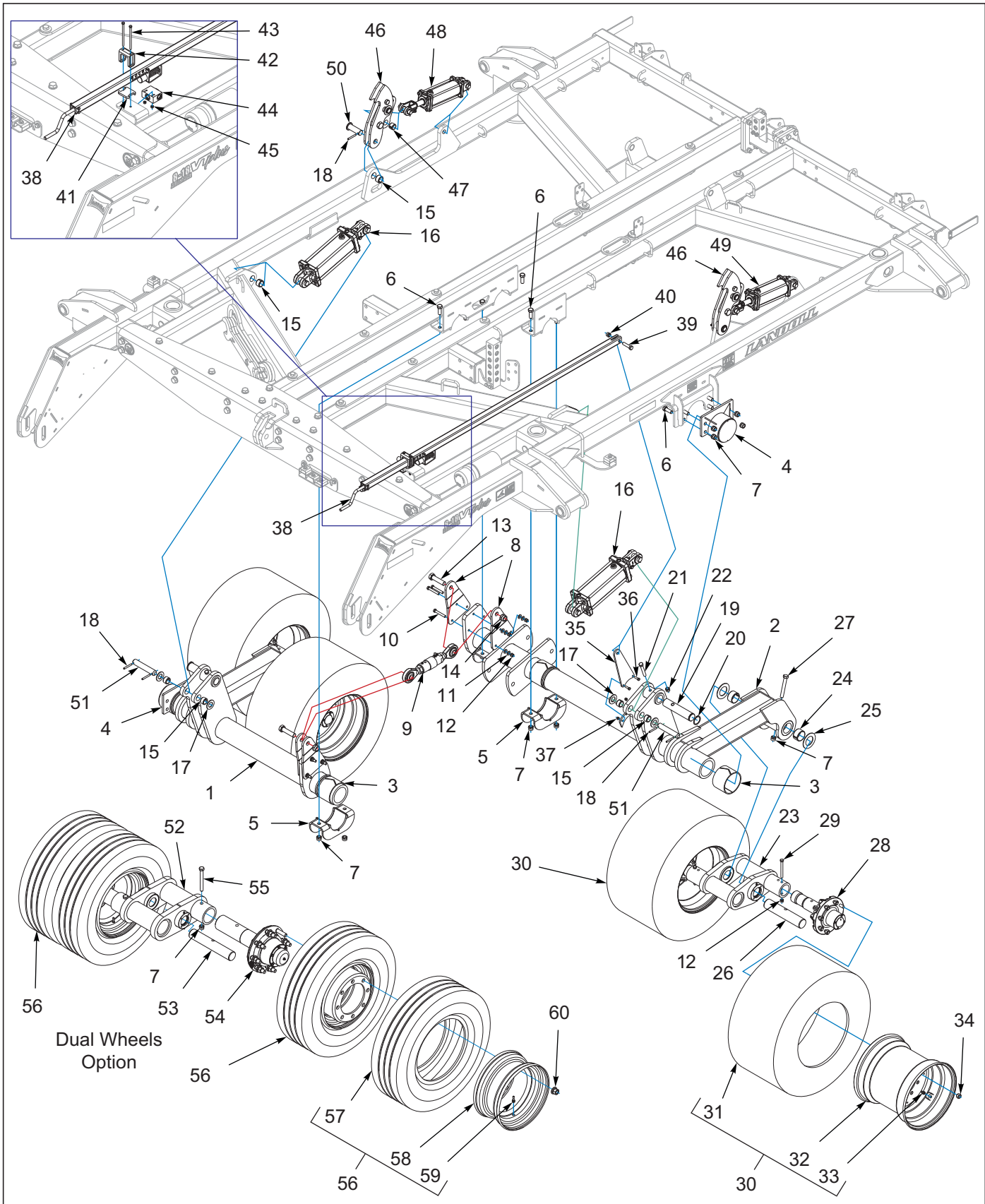


Figure 1-4: Frame Assembly Lift 7531-32'-35'

Frame Assembly Lift 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249852	LIFT, CENTER RIGHT-WC	1
2	249861	LIFT, CENTER LEFT-WC	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	16
8	171063	PLATE, OFFSET	4
9	167568	RAD ROD ASSY, LIFT (SEE PAGE 1-16)	1
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	6
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	2-150-010174	BUSHING,1-5/8X1-1/4X1	4
16	247550	CYLINDER, 4-1/2 X 10, REPHASE (SEE PAGE 6-3)	2
17	116100	WASHER 1-1/4 NAR FL ZP/CD	4
18	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	6
19	253469	RD BAR, TRANSPORT LOCK	2
20	188530	SNAP RING, 2 SHAFT	2
21	1-654-010059-13	SCREW HEX CAP 5/8-11X4UNC GR5	2
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
23	223526	ASSY, WALKER 3SP/2-1/2 PIN (SEE PAGE 1-13)	2
24	198351	CONNEX, 2-3/4 X 2-1/2 X 1-1/2L	4
25	164563	WASHER, THRUST 2-1/2	4
26	223528	SPINDLE, WALKBEAM,2-1/2X12-1/2	2
27	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5	2
28	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 1-19)	4
29	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	4
30	193130	TIRE&WHEEL ASSY, 480/45R17 AG (INCLUDES ITEMS 31-33)	4
31	204386	TIRE, BKT VF 480/45R17	4
32	193131	WHEEL,17X16,POS.38OFFSET,8BOLT	4
33	TR575	VALVE STEM TUBELESS TIRE	4
34	102600	NUT,WHEEL BOLT, 5/8	32
35	164124	MOUNT, DEPTH CONTROL	1
36	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
37	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
38	229851	ASSY, DEPTH STOP 90 L (SEE PAGE 1-17)	1
39	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	1
40	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	1
41	165257	PAD, SLIDE	1
42	165265	GUIDE, DEPTH STOP	1
43	171556	SCREW,HEX CP,5/16-18UNCX5-1/2	2
44	203467	VALVE-LIMIT, STROKE	1
45	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
46	253470	ASSY, LIFT LOCK (SEE PAGE 1-18)	2
47	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	2
48	247534	CYLINDER 3-1/4 X 8 REPHASE (SEE PAGE 6-17)	1
49	247535	CYLINDER 3-1/2 X 8 REPHASE (SEE PAGE 6-15)	1

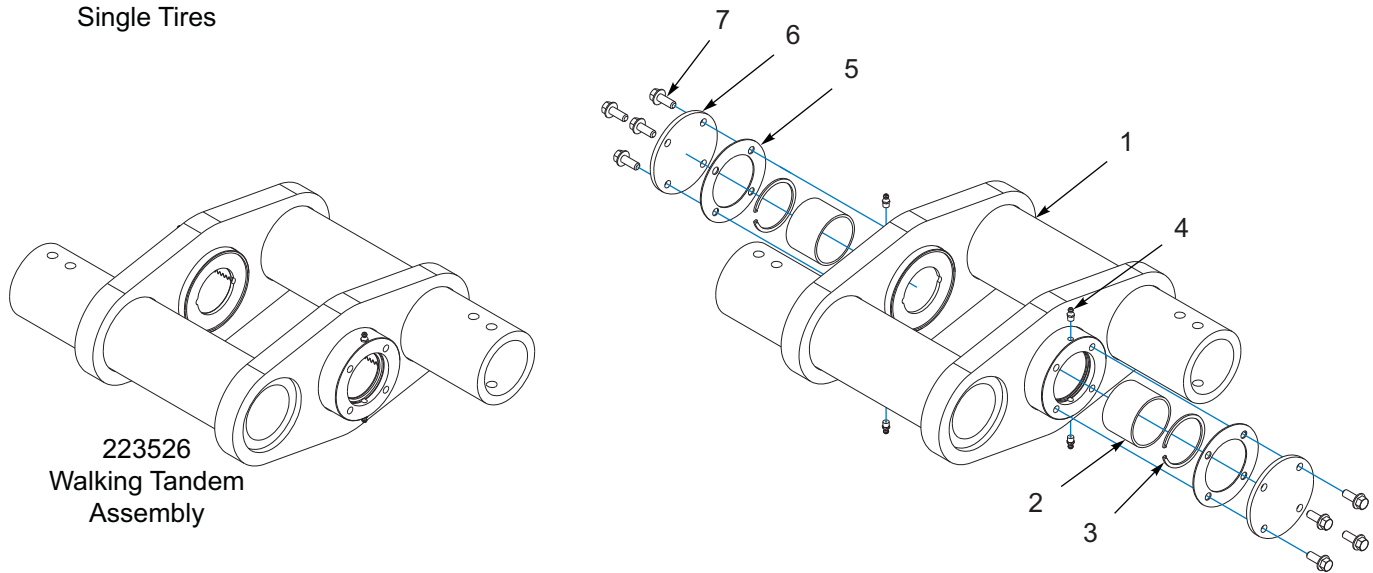
ITEM	PART NUMBER	DESCRIPTION	QTY.
50	226589	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	2
51	170291	PIN, 1-1/4 X 7	2
52	253575	ASSY, WALKER 4SP/2-1/2 PIN (SEE PAGE 1-13)	2
53	253574	SPINDLE, WALK BEAM 2-1/2 X 14-1/2	2
54	191974	HUB/SPINDLE ASSY, 4" W/ZERK (SEE PAGE 1-21)	4
55	100855	SCREW, HHCS, 3/4-10 X 6-1/2 GR5	4
56	239600	TIRE ASSY 265/70R19.5 DYNATRAC	4
57	239599	TIRE 265/70R19.5 DYNATRAC	4
58	223599	WHL DISC PILOT MT 19.5X7.50 8B	4
59	TR416	VALVE STEM TUBELESS TIRE	4
60	179933	NUT, HEX M22X1.5	32

Table provided for general use.

[illegible]

Walking Tandem Assembly

NOTE: Used With
Single Tires



NOTE: Used With
Dual Tires

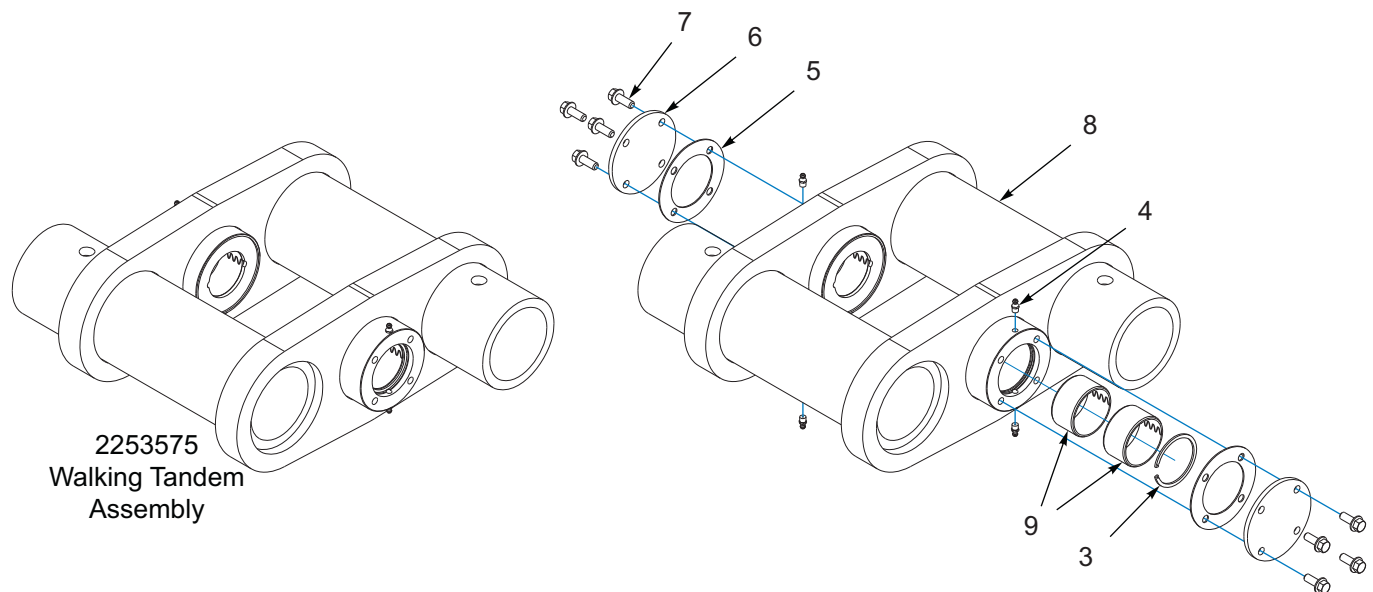


Figure 1-5: Walking Tandem Assembly

Walking Tandem Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	223526	ASSY, WALKER 3SP/2-1/2 PIN (USED WITH SINGLE TIRES)	*	
--	253575	ASSY,WALKER 4SP/2-1/2 PIN (USED WITH DUAL TIRES)		*
1	223525	WALKING TANDEM2-1/2,3 SP WLDMT (INCLUDES ITEM 2-4)	1	--
2	217561	BUSHING, SPRING 2-3/4X2-1/2X2	2	--
3	217560	SNAP RING, INTERNAL 2-3/4	2	2
4	171024	FITTING, GREASE 5/16-24 STR	4	4
5	217646	GASKET, ENDCAP	2	2
6	217568	ENDCAP, WALKER 2-1/2"	2	2
7	219795	SCREW, HEX FLANGE HD, 3/8 X 1	8	8
8	253576	WALK TANDEM 4SP/2-1/2 PIN (INCLUDES ITEM 3-4, 9)	--	1
9	198351	CONNEX, 2-3/4 X 2-1/2 X 1-1/2L	--	4

Dual Wheel Scraper Assembly

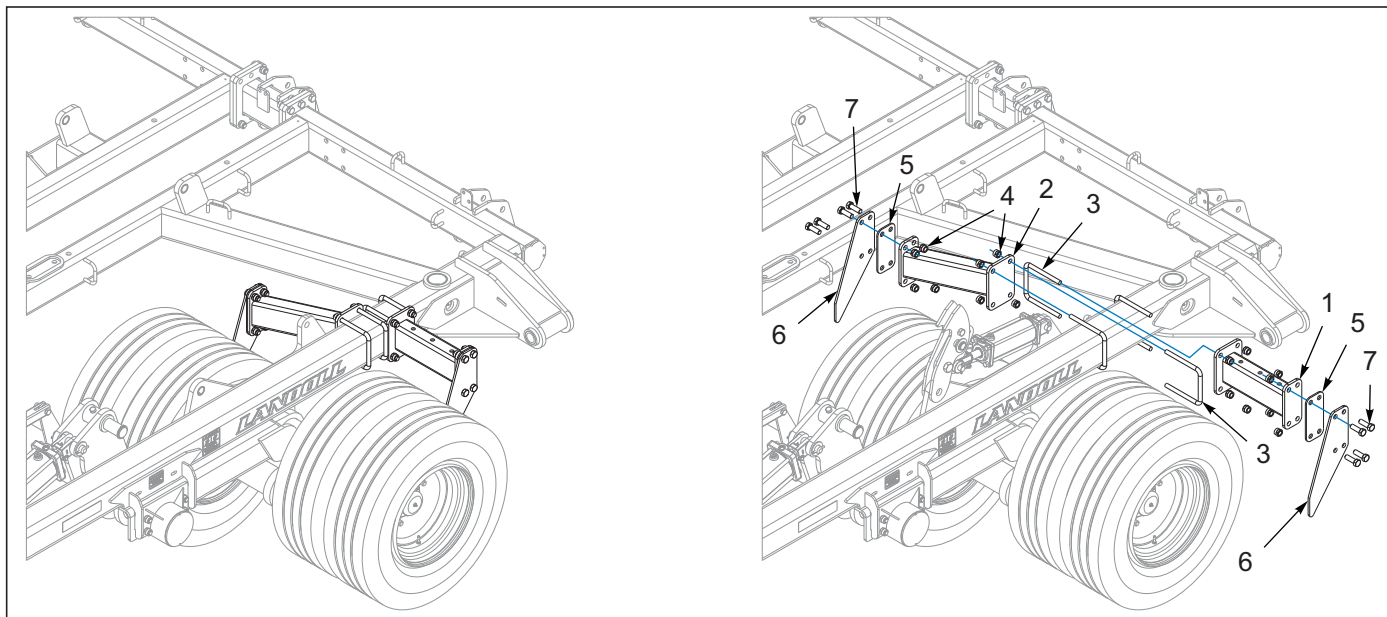


Figure 1-6: Dual Wheel Scraper Assembly

Dual Wheel Scraper Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	253580	MOUNT, SCRAPER/LIGHT ARM	2
2	256048	MOUNT, SCRAPER INNER	2
3	7K723	U-BOLT 3/4-10X6-13/16X7-3/4	8
4	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	16
5	236072	PLATE, SPACER	4
6	170213	SCRAPER, DUAL TIRE	4
7	1-654-010061-06	SCREW, HXCP, 3/4-10UNCX2-1/4GR5	16

Radius Rod Lift Assembly

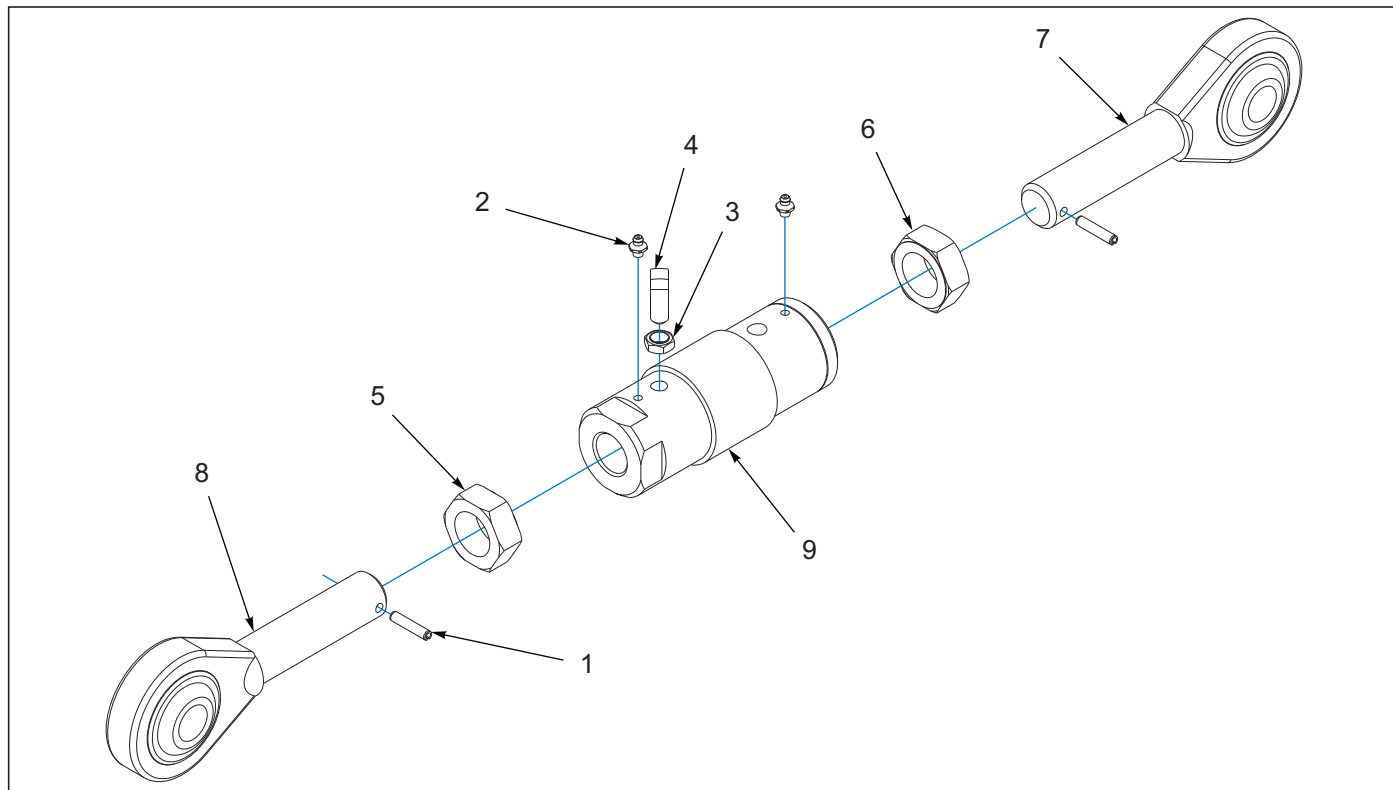


Figure 1-7: Radius Rod Lift Assembly

Radius Rod Lift Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	167568	RAD ROD ASSY, LIFT	
1	0600-250-01250	ROLL PIN 1/4X1-1/4 LONG	2
2	1-298-010001-1	ZERK FITTING 1/4 SAE	2
3	1-511-010001-05	NUT HEX JAM 1/2-13	1
4	1-654-010080-2	SCREW SET1/2X1-1/4 SQHD CP PT	1
5	100826	NUT, HEX, M10X1.5	1
6	153803	NUT 1-1/4-7 HX JAM,UNC LH GR2	1
7	159553	SCREW SHORT LH RADIUS ROD	1
8	159557	SCREW, SHORT, RH RADIUS ROD	1
9	167569	RADIUS ROD WLDMT 7"	1

Depth Stop Assembly

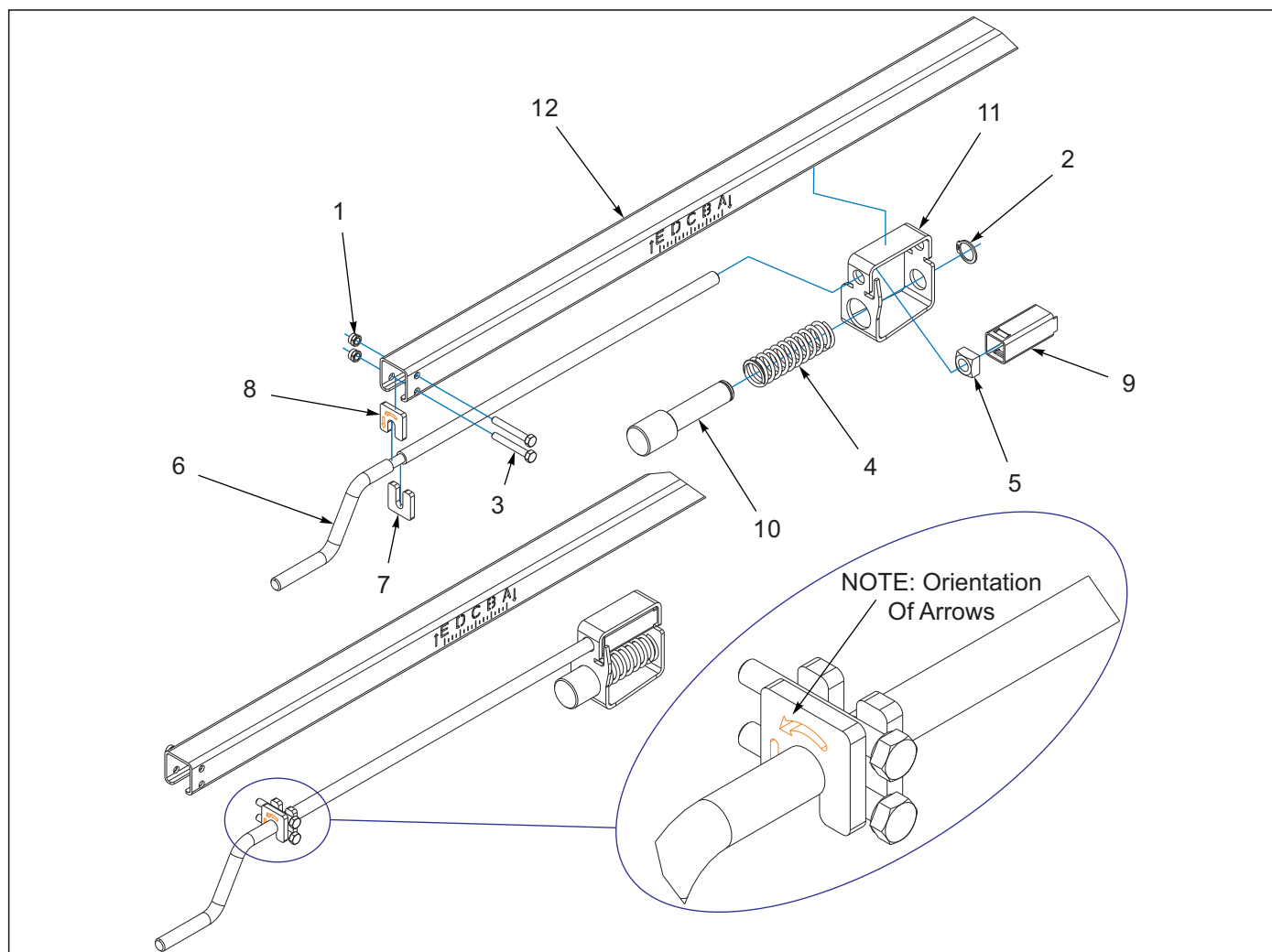


Figure 1-8: Depth Stop Assembly

Depth Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	229851	ASSY, DEPTH STOP 90 L	
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	229852	SQ TUBE, DEPTH STOP-90"	1

Lift Lock Assembly

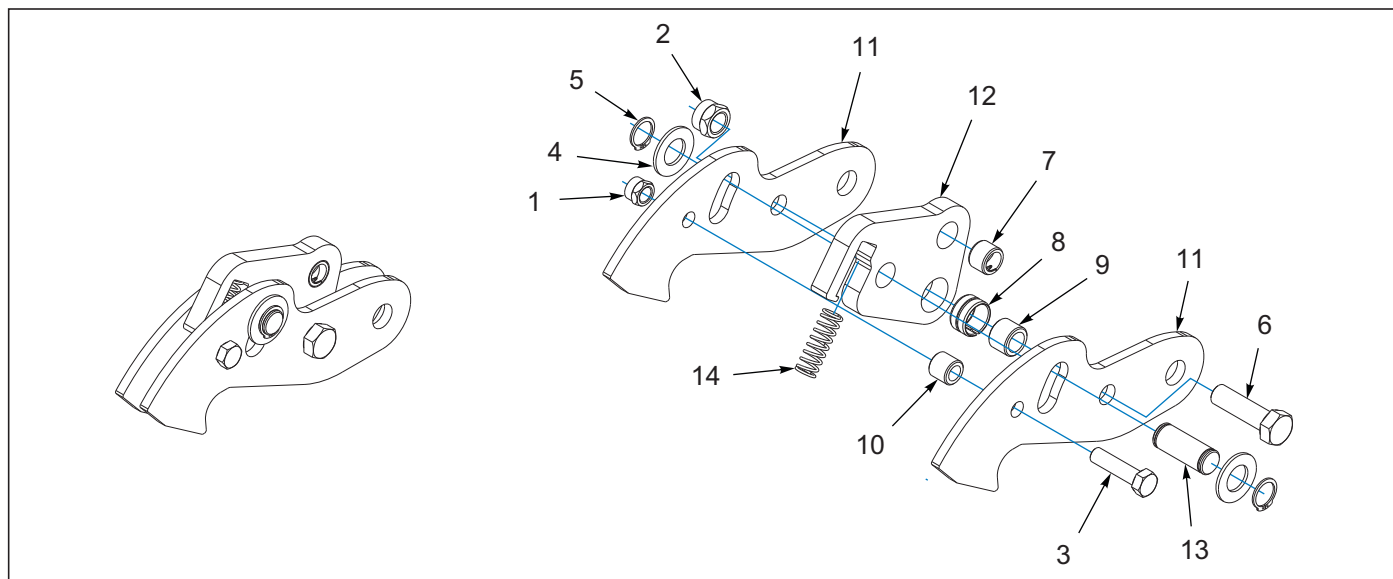


Figure 1-9: Lift Lock Assembly

Lift Lock Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	253470	ASSY, LIFT LOCK	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	1
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	1
3	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	1
4	116100	WASHER 1-1/4 NAR FL ZP/CD	2
5	120454	RING,RETAINING 1.25 HD	2
6	172579	SCREW HEX CAP 1-8UNCX3.5 GR8	1
7	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	1
8	2-150-010218	BUSHING,LEVELING LINKAGE2220F	1
9	251967	BUSHING, PIVOT 1-1/8 L	1
10	251968	BUSHING, CLAMP 1-1/8 L	1
11	253471	PLATE, LOCK	2
12	253472	PLATE, CYL LUG	1
13	253473	PIN, LOCK 3-1/4 L	1
14	434020	COMPRESSION SPRING	1

Hub/Spindle Assembly, Center

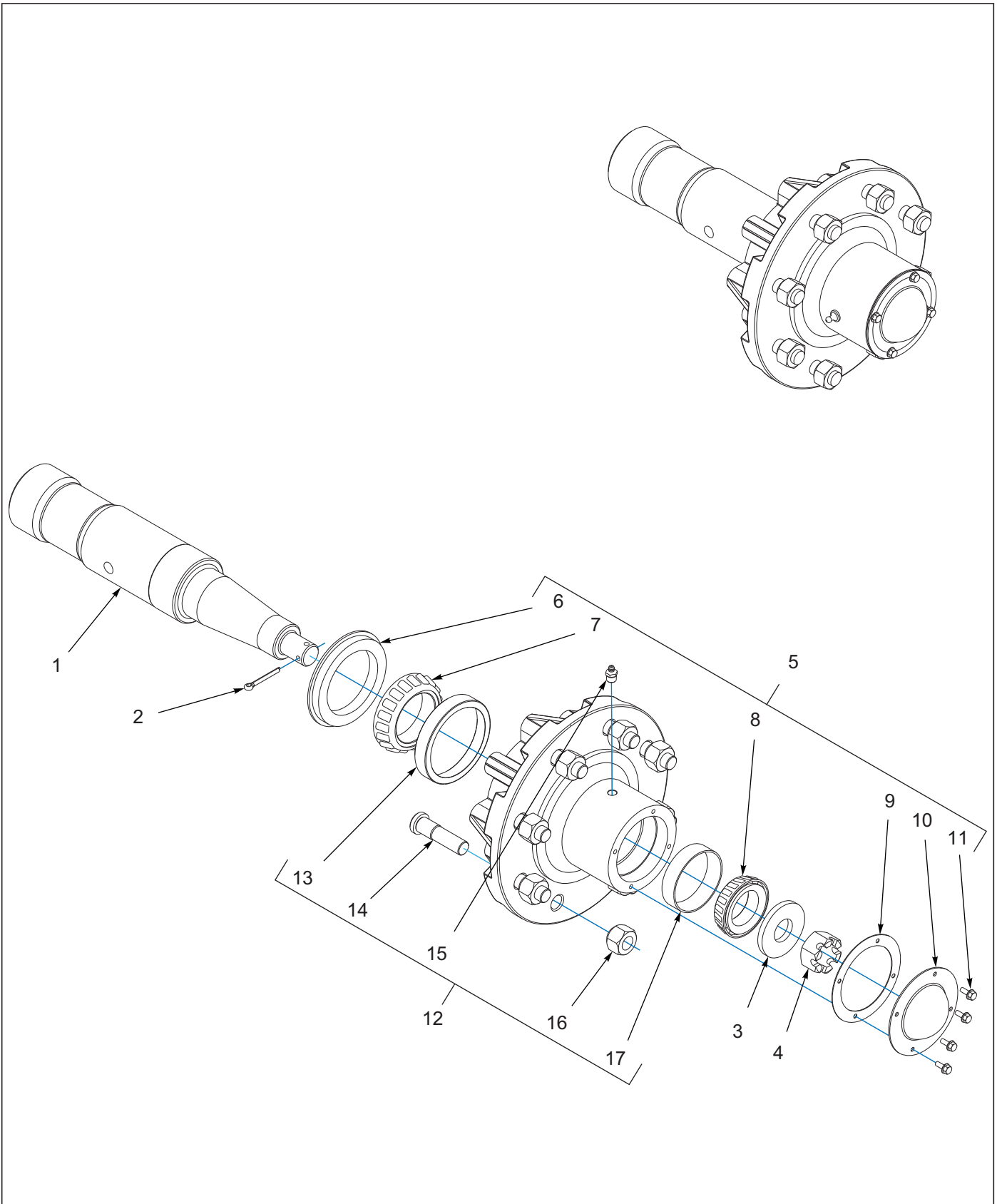


Figure 1-10: Hub/Spindle Assembly, Center

Hub/Spindle Assembly, Center

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

Hub/Spindle Assembly Center (Dual Wheels)

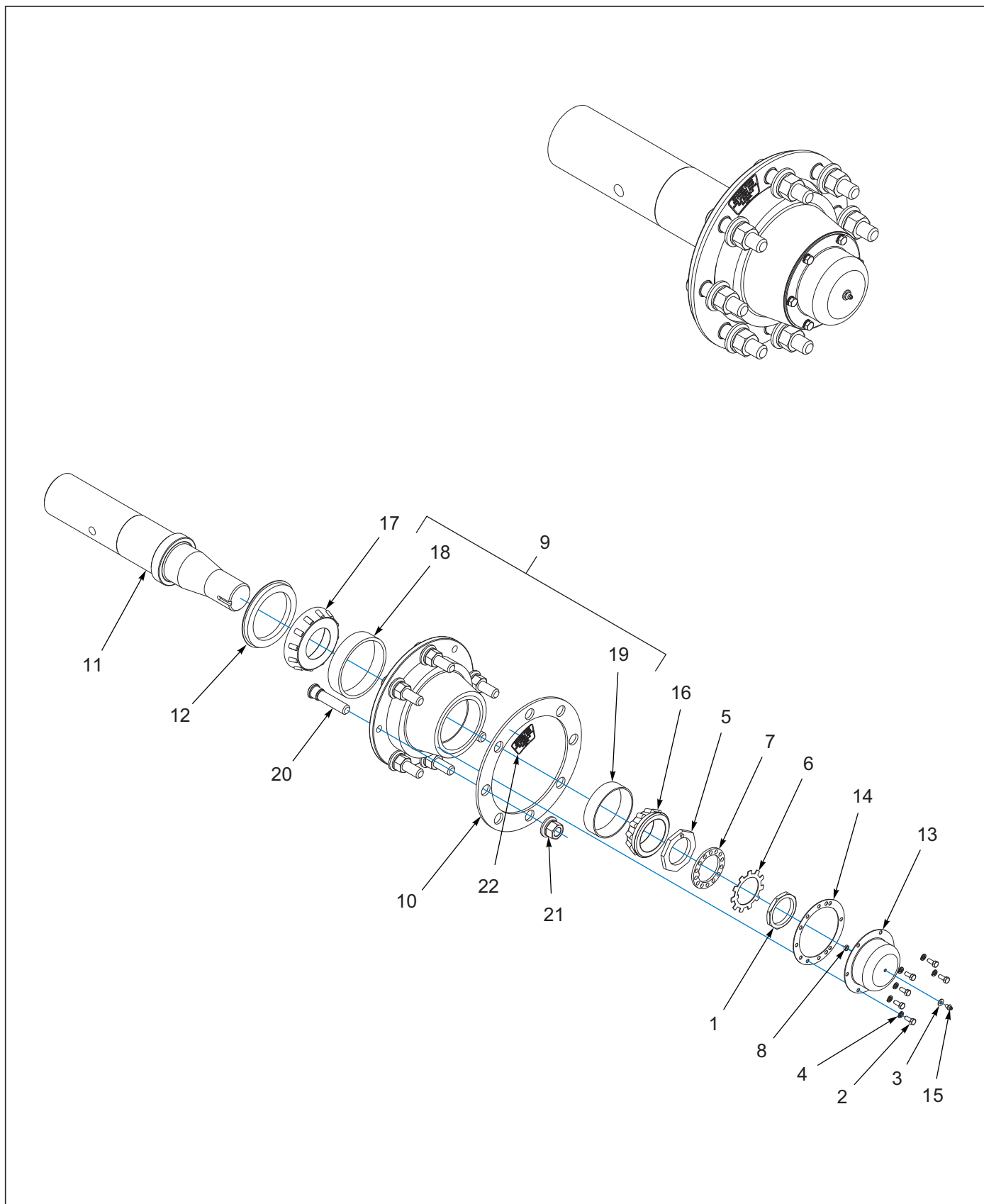


Figure 1-11: Hub/Spindle Assembly Center (Dual Wheels)

Hub/Spindle Assembly Center (Dual Wheels)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	191974	HUB/SPINDLE ASSY, 4" W/ZERK	
1	006-115-00	NUT OUTER, SPINDLE, DEXTER	1
2	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	1
3	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	1
4	1-861-010034-10	WASHER,LKG 5/16	6
5	103103-002	INNER SPIN NUT	1
6	105106	STAR L/W	1
7	105107	LOCK WASHER	1
8	1404013	NUT JAM HEX HD GR 5 1/4-28	1
9	164557	HUB W/CUPS, 8 BOLT (INCLUDES ITEMS 18, 19, 20, 21)	1
10	167586	SPACER, WHEEL	1
11	167649	ASSY, 4" SPINDLE-SLEEVE	1
12	184769	SEAL, PURGABLE 6 OD X 4-5/8 ID	1
13	191976	HUBCAP W/ 1/4 HOLE	1
14	3067	GASKET HUB	1
15	5013	ZERK, FITTING 1/4-28SAEX11/16	1
16	HM212049	OUTER BRG A19S	1
17	HM218248	INNER BEARING	1
18	HM218210	BEARING CUP,INNER-DEXTERD225K	1
19	HM212011	OUTER CUP	1
20	101162	STUD - DISC PILOT HOLE WHL	8
21	179933	NUT, HEX M22X1.5	8
22	255069	DECAL, HUB SPACER	1

Hitches

Hitch Assembly

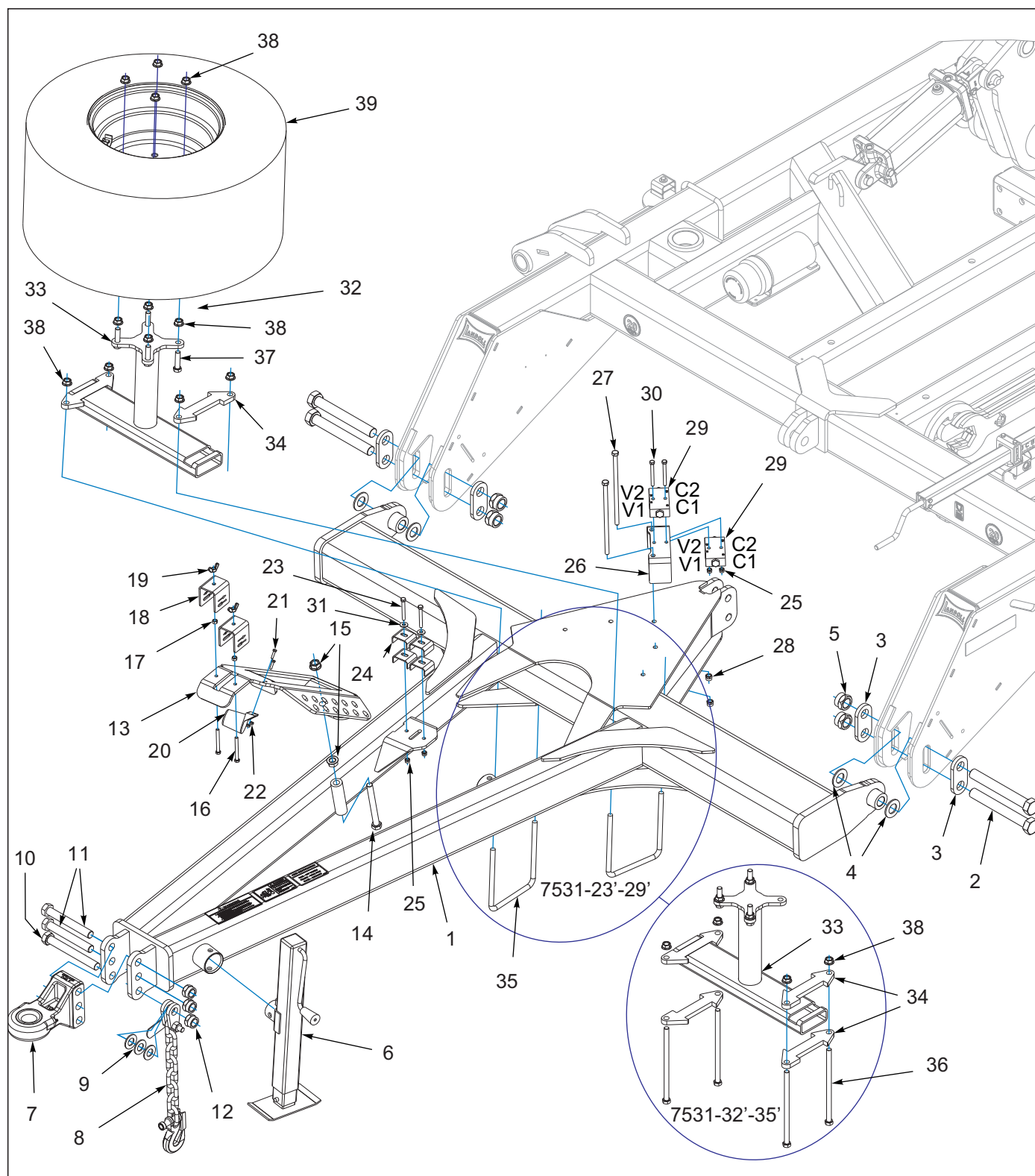
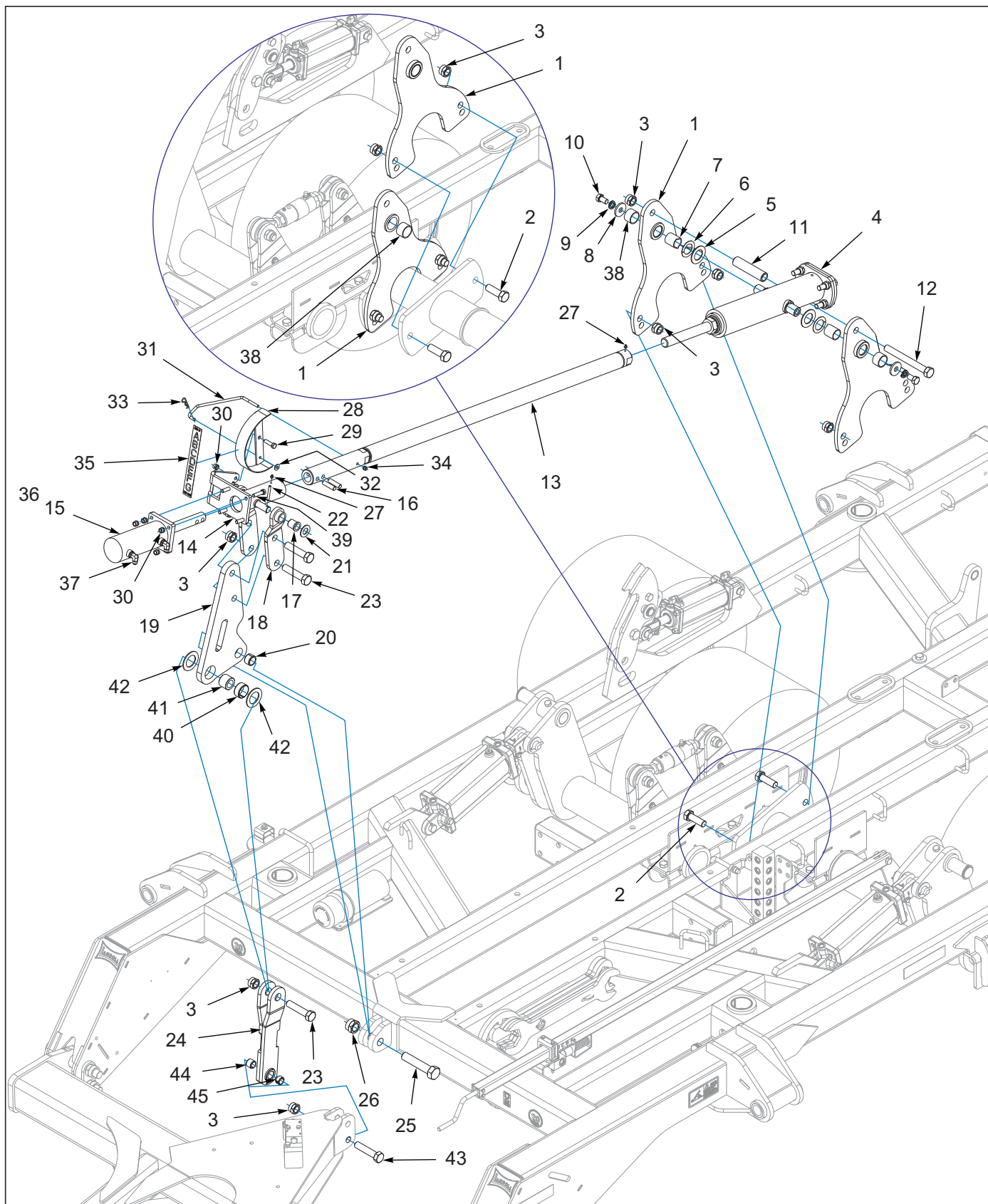


Figure 2-1: Hitch Assembly

Hitch Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	206679	HITCH NC WLDMT (7531-23'-26'-29')	1
1	250275	HITCH WC 7531 (7531-32'-35')	1
2	184795	SCREW HX CP 1-1/4-7UNCX10 GR8	4
3	207850	PLATE, HITCH MOUNT 1-1/4	4
4	116100	WASHER 1-1/4 NAR FL ZP/CD	4
5	101385	NUT,HEX SLFLKG,1-1/4-7 GRB	4
6	140647	JACK, SIDE WIND 7000/8000 LB (SEE PAGE 2-6)	1
7	189451	HITCH, BALL CAT IV 3-HOLE (SEE PAGE 2-5)	1
8	156950	SAFETY CHAIN, 41,000 LB	1
9	1-861-010032-24	WASHER FL 1IN NARROW ZP	3
10	1-654-010125-22	SCREW HX CP 1-8UNCX8-1/2G8ZP	1
11	153696	BOLT, HITCH CLEVIS	2
12	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	3
13	251964	BRACKET, HOSE HOLDER	1
14	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	1
15	103841	NUT,FLG,LNK,SERRATED 3/4-10UNC	2
16	141807	SCREW 3/8-16UNCX3-1/2 ALLTHRD	2
17	1-512-010007-07	NUT, HEX 3/8-16 GR2 ZP	2
18	141247	CLAMP, HOSE HOLDER	2
19	155628	NUT WING 3/8-16 UNC	2
20	2-368-010287	HARNESS, STOR-A-WAY	1
21	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
22	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
23	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	2
24	2-181-010001	HOSE CLAMP	4
25	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
26	174695	CLAMP, HOSE HOLDER	1
27	131081	SCREW,HEX CAP 1/2-13X11 (7531-23'-26'-29')	2
27	167638	SCREW, HX CP, 1/2-13UNCX12GR5 (7531-32'-35')	2
28	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
29	124696	VALVE,CHK DBL PILOT O-RING	2
30	1-654-010051-15	SCREW HXCP 3/8-16UNCX3-1/2 G5	2
31	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	2
32	221274	ASSY, SPARE BKT 410/50R16.5 (INCLUDES ITEMS 33-35, 37-38, PART NO. 215350)	1
32	211926	ASSY, SPARE TIRE 480/45R17 (INCLUDES ITEMS 33-35, 37-38, PART NO. 193130)	1
32	253561	ASSY, SPARE TIRE 480-32/35 (INCLUDES ITEMS 33-34, 36-38, PART NO. 193130)	1
33	211928	WLDMT MOUNT, SPARE TIRE	1
34	225087	MOUNT PLATE, OFFSET	2
35	211933	U-BOLT, WING STABILIZER	2
36	101387	SCREW HX CP 5/8-11UNCX11-1/2	4
37	1-654-010059-07	SCREW HX CP 5/8-11UNCX2-1/2G5	4
38	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	12
39	215350	TIRE&WHL ASSY, VF410/50R16.5	1
39	193130	TIRE&WHEEL ASSY, 480/45R17 AG	1

Hydraulic Leveler Assembly



Hydraulic Leveler Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249995	MOUNT, LEVELER PLATE (INCLUDES ITEMS 38)	2
2	1-654-010125-09	SCREW,HXCP 1-8UNCX3 GR8	4
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	9
4	249990	TUBE ASSY, LEVELER SPRING (SEE PAGE 2-7)	1
5	164539	WASHER THRUST 1-3/4 (STEEL)	2
6	141258	WASHER, THRUST 1-3/4 (PLASTIC)	2
7	249993	BUSHING, PIVOT	2
8	200259	WASHER, 3/4 HEAVY - 2-1/4	2
9	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	2
10	129263	SCREW HEX CAP 3/4-10 X 1-1/4	2
11	207808	BUSHING, CLAMP	1
12	154888	SCREW HEX CAP, 1-8UNCX9 GR5	1
13	183914	TUBE, LEVELER 71" WLDMT	1
14	140625	CROSS, LEVELER CYLINDER WLDMT	1
15	144116	CYL ASSY, 3-1/2 X 6 W/FITTINGS (INCLUDES ITEMS 36-37)	1
16	140627	PIN, LEVELER	2
17	2-073-010012	BEARING FLANGE	2
18	240609	PLATE, LEVELER CROSS	2
19	253475	PLATE, LEVELER L	1
20	2-150-010174	BUSHING,1-5/8X1-1/4X1	1
21	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
22	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	2
23	141777	SCREW HX CP 1-8UNCX4-1/2 GR5	4
24	253476	LINK, LEVELER	1
25	172823	SCREW HX CAP 1-1/4-7X6 GR8	1
26	101385	NUT,HEX SLFLKG,1-1/4-7 GRB	1
27	1-298-010001-1	ZERK FITTING 1/4 SAE	2
28	141241	GAUGE, LEVEL INDICATOR WLDMT	1
29	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	1
30	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
31	141242	ROD, LEVEL INDICATOR	1
32	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
33	1-557-010403	HAIRPIN 1/8	1
34	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
35	141263	DECAL, LEVEL INDICATOR	1
36	140631	CYLINDER 3-1/2X6 (SEE PAGE 6-24)	1
37	141827	ELBOW 90 3/4ORB3/4JIC 1/32REST	2
38	243053	BRG, IGUS 2.00 X 1.75 X 1.25 L	2
39	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	4
40	219778	BUSHING, SPRING 2-1/4 X 2 X 1	1
41	253474	BUSHING, PIVOT	1
42	164471	WASHER, THRUST 2"	2
43	1-654-010065-15	SCREW HX CP 1-8UNCX5 GR5	1
44	2-150-010008	BUSHING 1-1/4ODX1IDX1 STEEL	1
45	3P079	SPRING BUSHING,1 X 1.25 X 0.75	1

Ball & Clevis Assembly

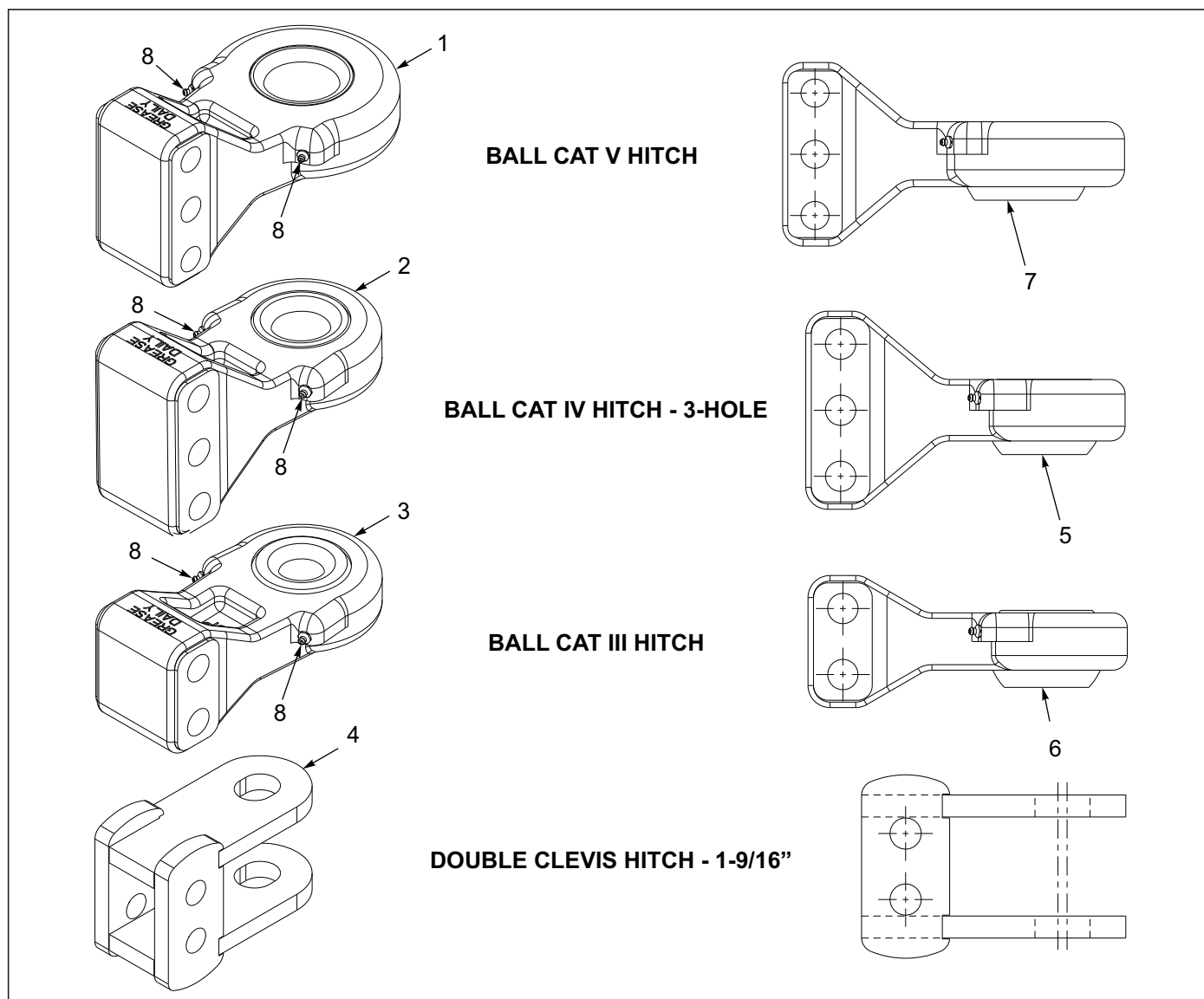


Figure 2-3: Ball & Clevis Assembly

Ball & Clevis Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	177032	HITCH, BALL CAT 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	1
5	189453	BUSHING, SPHERICAL 1-1/2 ID	1
6	189453	BUSHING, SPHERICAL 1-1/2 ID	1
6	189454	BUSHING, SPHERICAL 2 ID	1
7	189468	BUSHING, SPHERICAL 2-3/4 ID	1
7	189467	BUSHING, SPHERICAL 2 ID	1
8	1-298-010001-1	ZERK FITTING 1/4 SAE	1

Jack Assembly

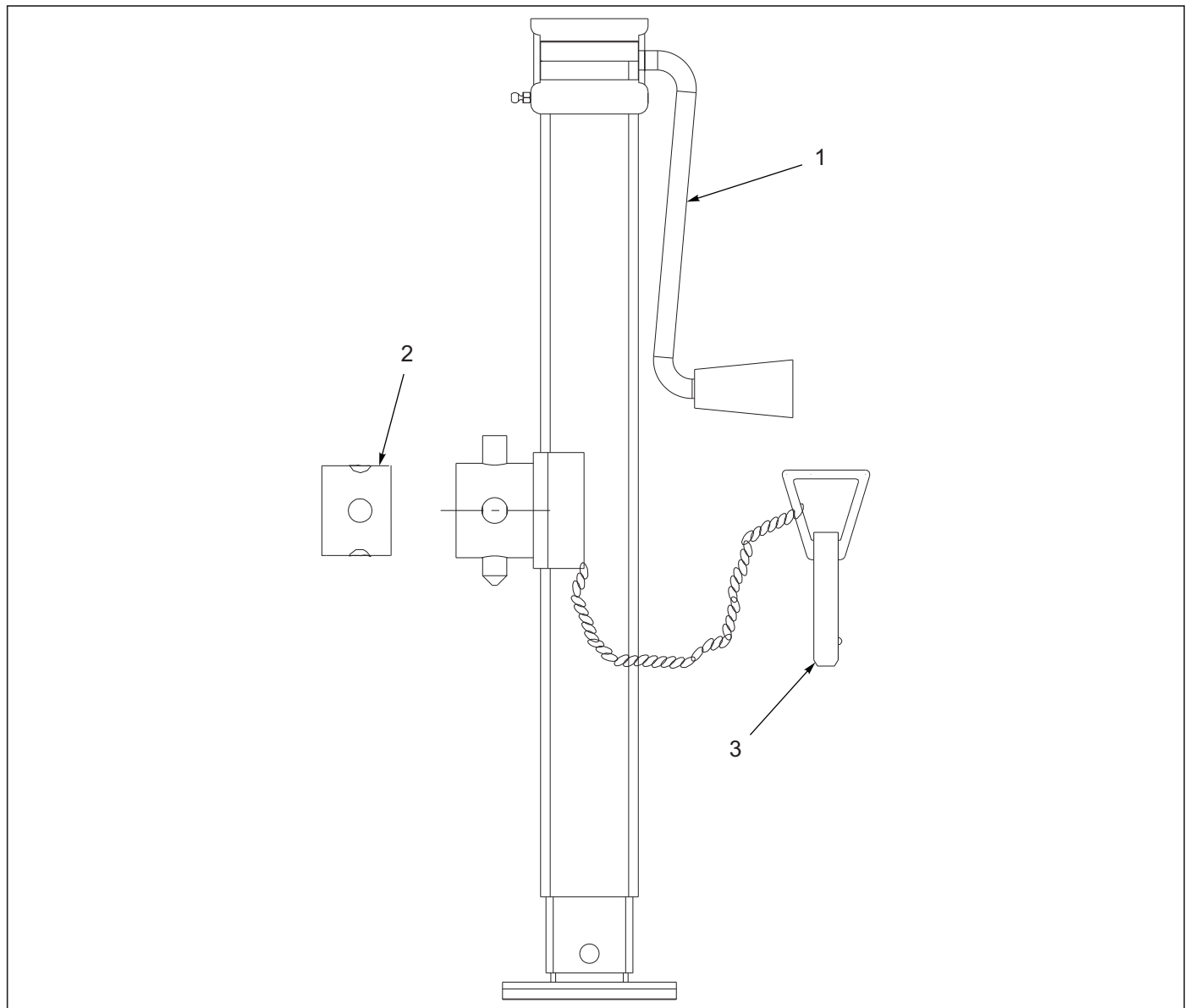


Figure 2-4: Jack Assembly

Jack Assembly

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

Leveler Spring Tube Assembly

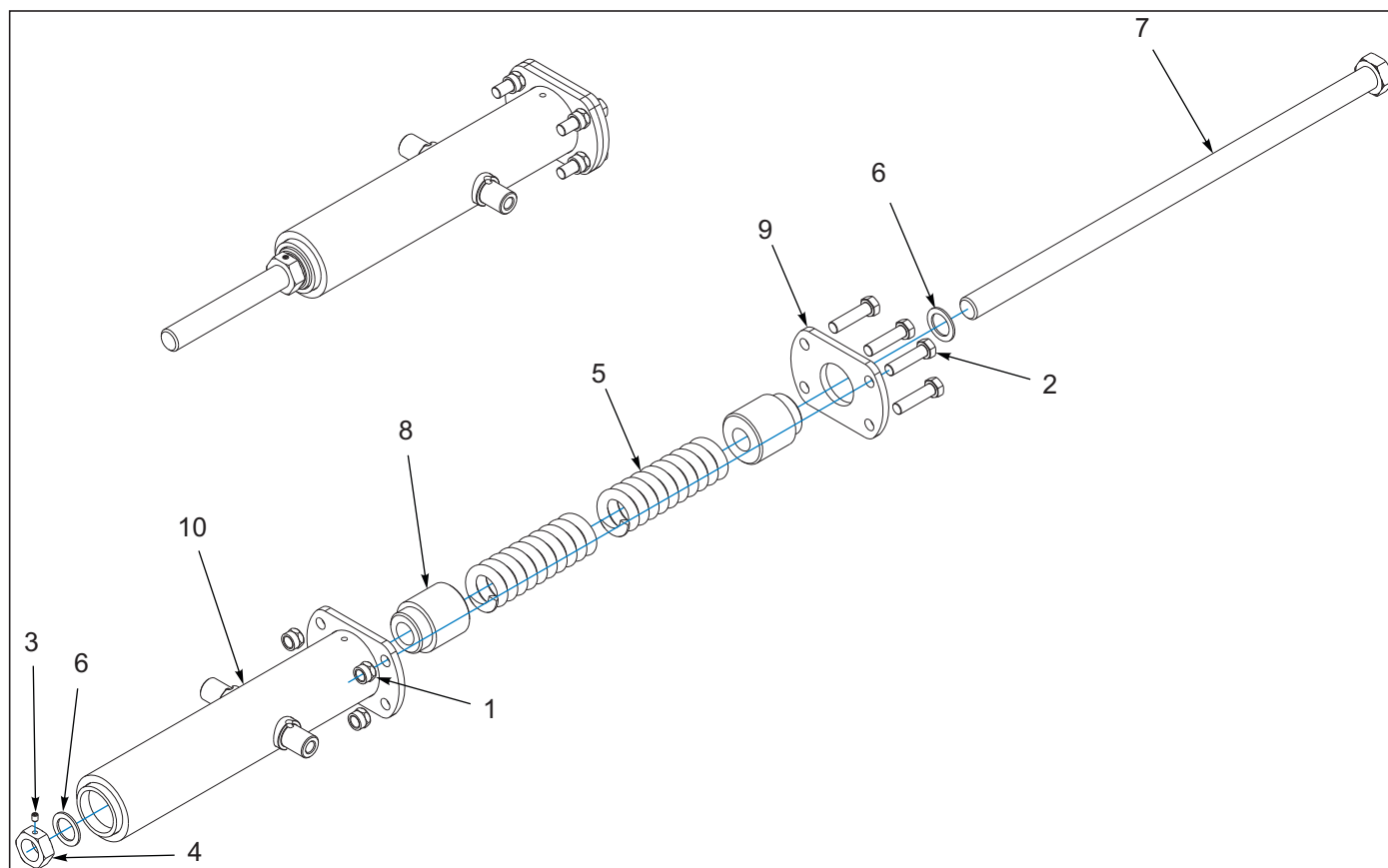


Figure 2-5: Leveler Spring Tube Assembly

Leveler Spring Tube Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	249990	TUBE ASSY, LEVELER SPRING	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
2	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	4
3	122709	SCREW,SET,HXSKTCPPT 3/8-16X1/2	1
4	140610	NUT,HEX JAM W/O SET SCREW	1
5	140649	SPRING, LEVELER, BLUE	2
6	170258	BUSHING, MACHINE 1-1/2 X 10 GA	2
7	206724	SCREW WLDMT LEVELER	1
8	206730	LEVELER CROSS	2
9	206731	PLATE, LEVELER SPRING TUBE	1
10	249991	TUBE WLDMT, LEVELER SPRING	1

Table provided for general use.

[illegible]

Frame Assemblies Wing

Frame Assembly Wing

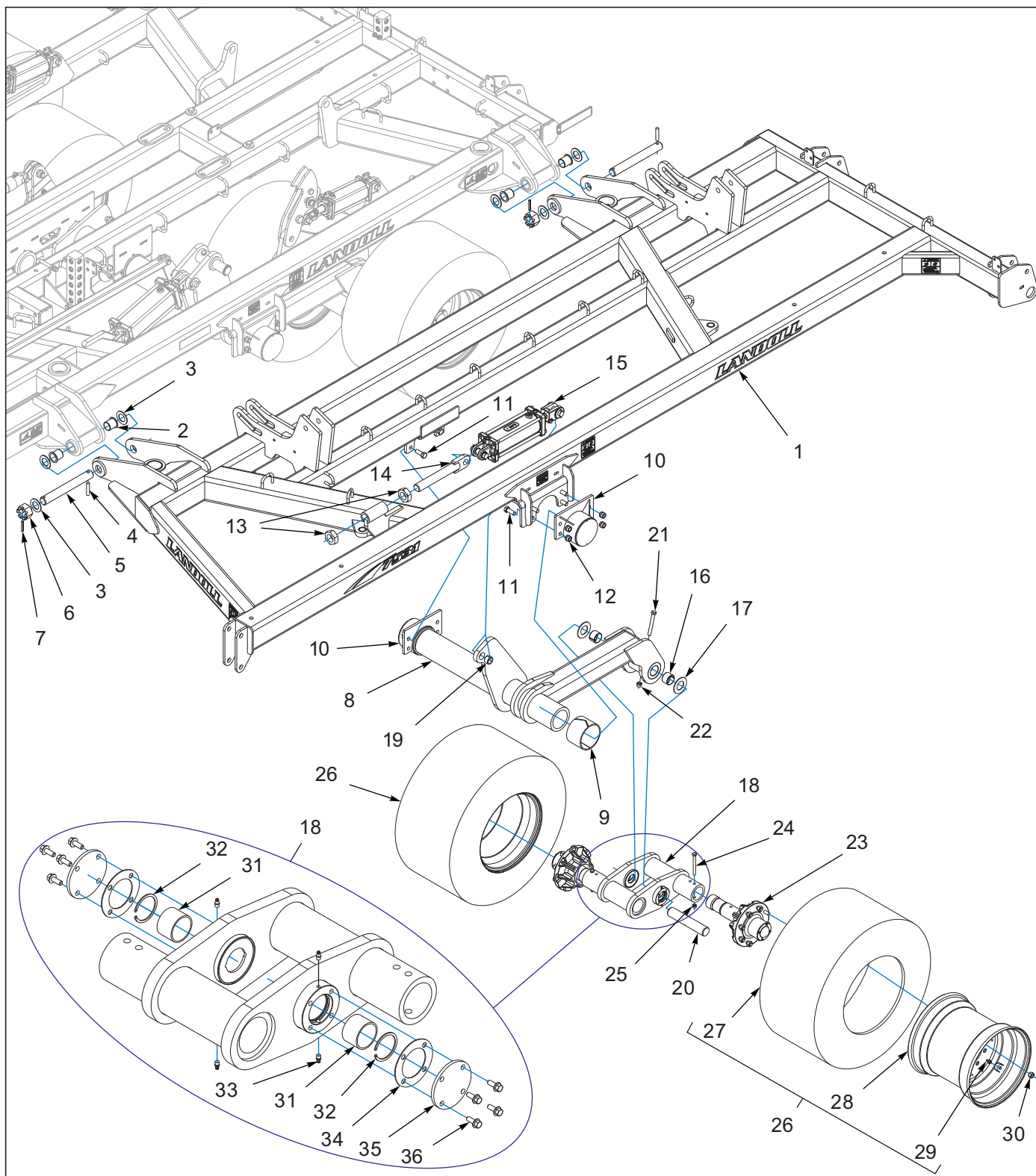


Figure 3-1: Frame Assembly Wing

Frame Assembly Wing

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	249895	WING LT, 7531-23	1
1	249894	WING RT, 7531-23	1
1	249897	WING LT, 7531-26	1
1	249896	WING RT, 7531-26	1
1	249899	WING, LT 7531-29	1
1	249898	WING, RT 7531-29	1
2	164533	BEARING, FLANGE 1-3/4	8
3	164539	WASHER THRUST 1-3/4	8
4	148382	PIN, WALKING BEAM SPINDLE	4
5	198404	PIN, HINGE 1-3/4	4
6	23085	NUT HEX SLOTTED 1 3/4-5	4
7	1-647-010004257	PIN,SPRING,SLOTTED 3/8X2-1/2	4
8	249855	LIFT, WING LEFT-23	1
8	249854	LIFT, WING RIGHT-23	1
8	249857	LIFT, WING LEFT (7531-26'-29'-32'-35')	1
8	249856	LIFT, WING RIGHT (7531-26'-29'-32'-35')	1
9	140519	BEARING, UHMW 4IN	4
10	141209	BEARING CAP, LIFT WLDMT	4
11	1-654-010061-05	SCREW,HHC,3/4-10UNCX2,GR5,ZP	16
12	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
13	155716	NUT HX JAM 1-3/4-5UNC GR2	4
14	167617	ROD, CYLINDER ANCHOR WLDMT	2
15	247549	CYL, 4 X 10, REPHASE 1.25 PIN (SEE PAGE 6-1)	2
15	247549M	CYL, 4X10, REPHASE 1.25 PIN (SEE PAGE 6-2)	2
16	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
17	171070	WASHER, THRUST 2	4
18	217591	ASSY, WALKER 3" (INCLUDES ITEMS 32-34)	2
19	2-150-010174	BUSHING,1-5/8X1-1/4X1	2
20	217593	SPINDLE, WALK BEAM 2"	2
21	1-654-010059-15	SCREW,HEX CAP,5/8-11UNCX5 GR5	2
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
23	223440	ASSY, 8 BOLT HUB & SPINDLE (SEE PAGE 3-3)	4
24	1-654-010055-15	SCR, HX CP, 1/2-13UNCX5 GR5	1
25	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
26	215350	TIRE&WHL ASSY, VF410/50R16.5 (INCLUDES ITEMS 27, 28 & 29) (7531-23')	4
26	193130	TIRE&WHEEL ASSY, 480/45R17 AG (INCLUDES ITEMS 27, 28 & 29) (7531-26'-35')	4
27	215352	TIRE, VF410/50R16.5 (USED WITH 215350)	4
27	204386	TIRE, BKT VF 480/45R17 (USED WITH 193130)	4
28	171011	WHL 16.5X12 POS 1.5 OFFST 8BLT (USED WITH 215350)	4
28	193131	WHEEL,17X16,POS.38OFFSET,8BOLT (USED WITH 193130)	4
29	TR575	VALVE STEM TUBELESS TIRE	4
30	102600	NUT,WHEEL BOLT, 5/8	32
31	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
32	217559	SNAP RING, INTERNAL-2-1/4	4
33	171024	FITTING, GREASE 5/16-24 STR	8
34	217627	GASKET, ENDCAP	4
35	217626	ENDCAP, WALKER	4
36	219795	SCREW, HEX FLANGE HD, 3/8 X 1	16

Hub/Spindle Assembly, Wings

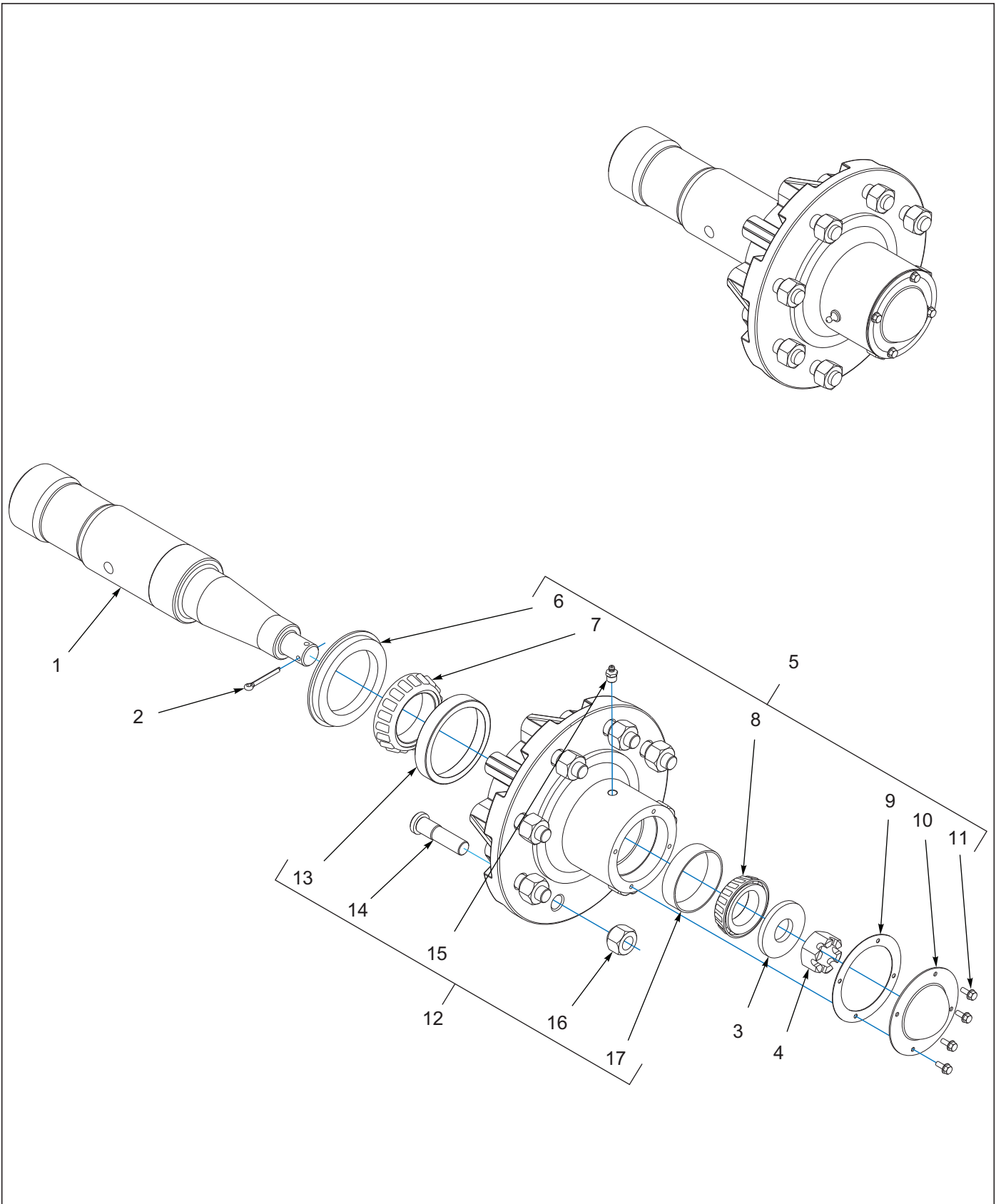


Figure 3-2: Hub/Spindle Assembly, Wings

Hub/Spindle Assembly, Wings

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

Gauge Wheel Assembly

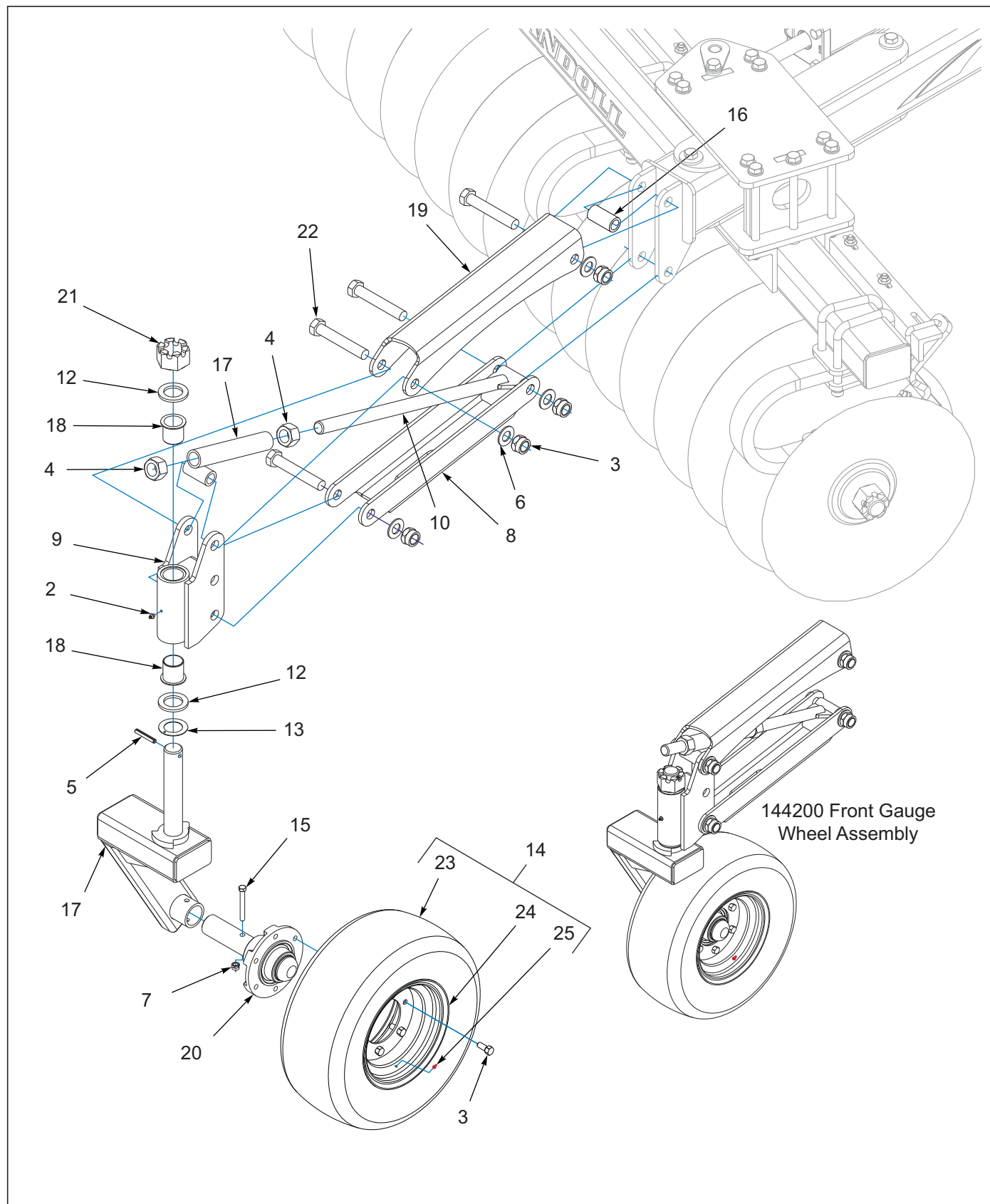


Figure 3-3: Gauge Wheel Assembly

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 3-7)	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

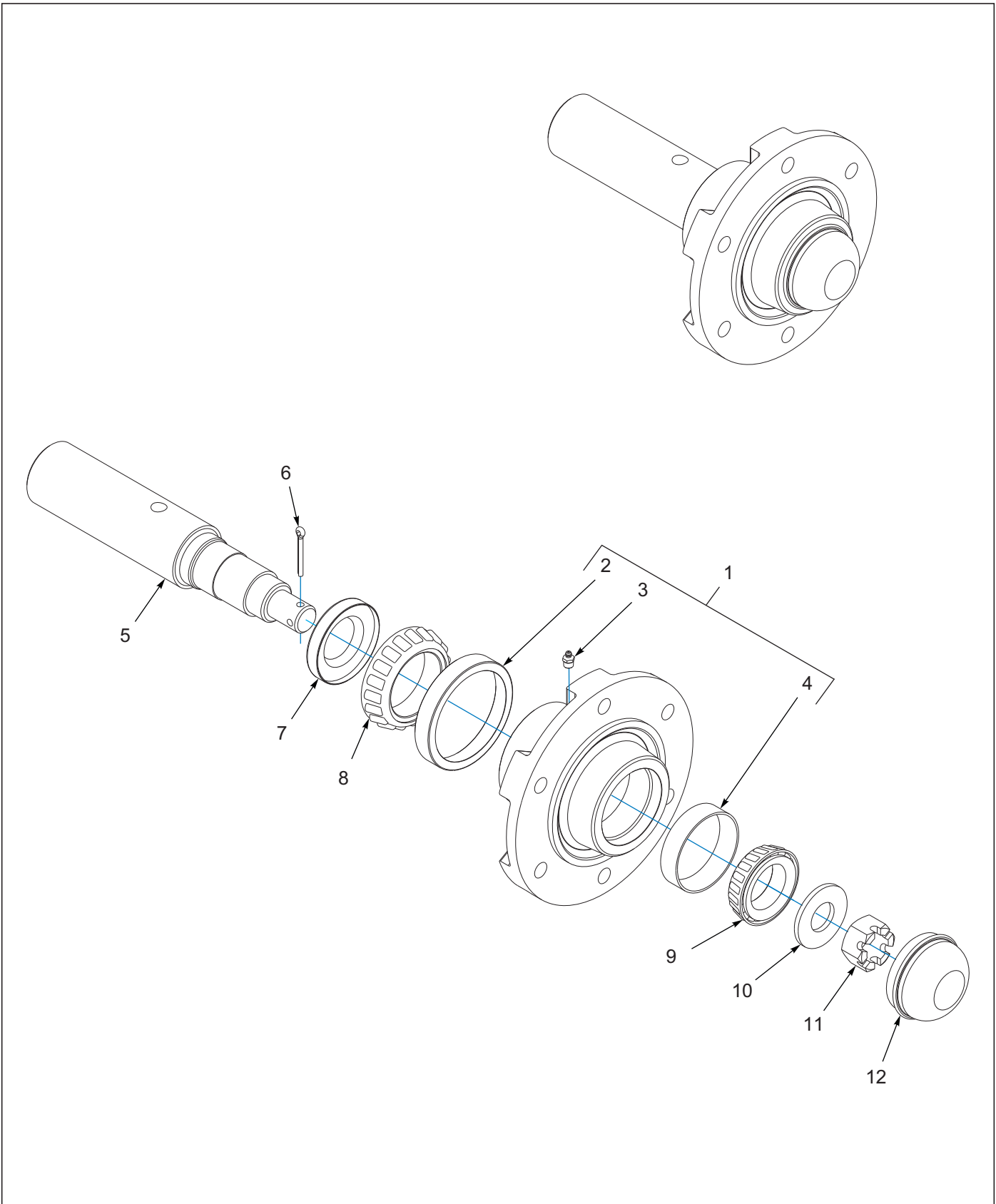


Figure 3-4: Hub/Spindle Assembly 224600

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

Disc Gang Assemblies

Disc Gang Assembly

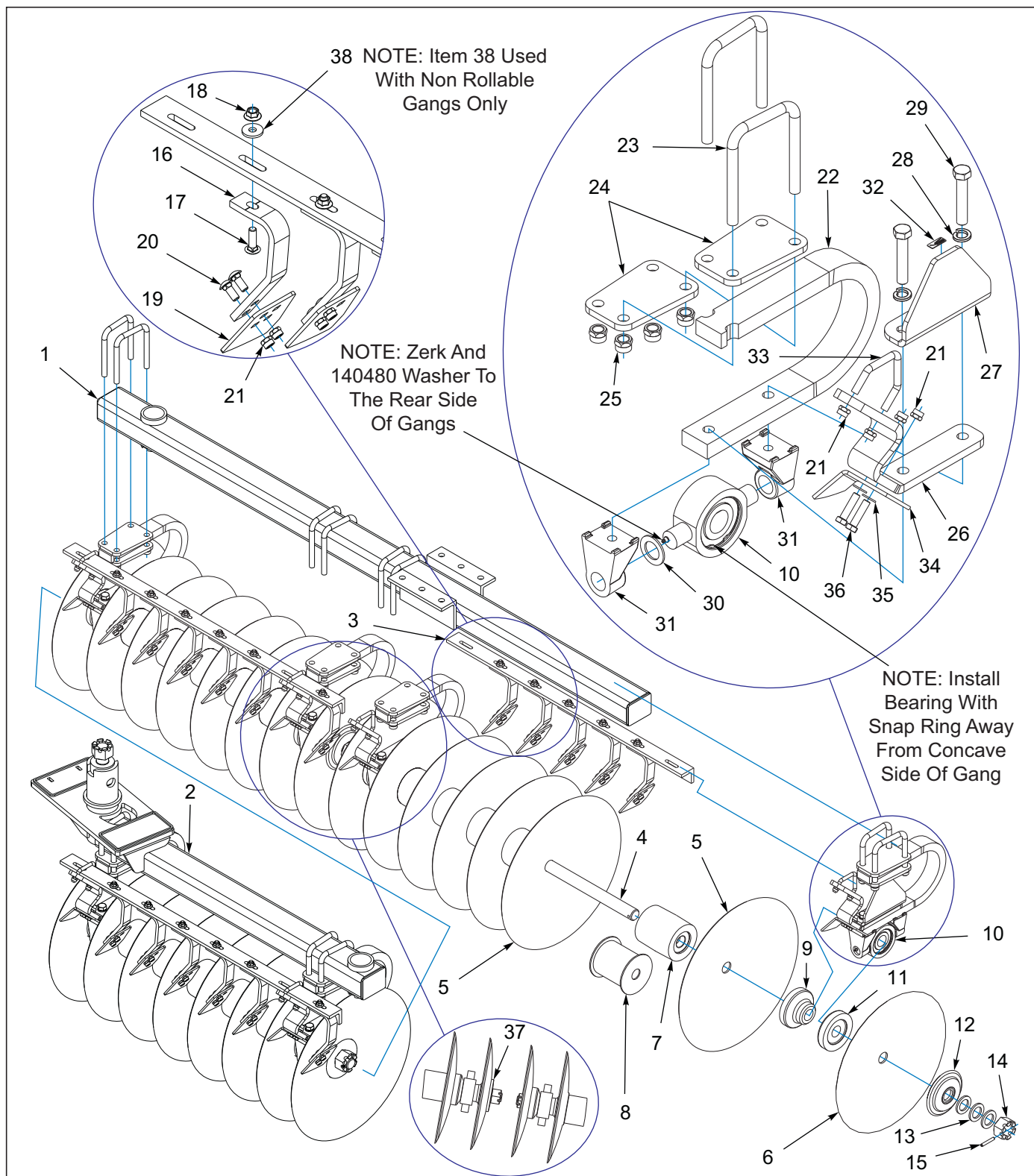


Figure 4-1: Disc Gang Assembly

Disc Gang Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	GANG BAR (OUTER) (SEE PAGE 4-15 to SEE PAGE 4-21)	
2	-----	GANG BAR (INNER) (SEE PAGE 4-15 to SEE PAGE 4-21)	
3	-----	SCRAPER BAR (SEE PAGE 4-15 to SEE PAGE 4-21)	
4	-----	GANG SHAFT (SEE PAGE 4-15 to SEE PAGE 4-21)	
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	
5	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	
6	155617	DISC BLADE,22"X1/4" 1-3/4 ID	
6	155618	DISC BLADE,22"X1/4" 1-3/4 ID	
6	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	
6	155619	DISC BLADE,20"X1/4" 1-3/4 ID (ROLLABLE)	
7	154668	SPOOL, CAST 7 SP	
8	153652	SPOOL WELDMENT, 7 SP	
9	153651	HALF SPOOL, CONVEX 7 SP	
10	140477	BEARING, DISC 1.775 ID ASSY (SEE PAGE 4-25)	
11	140485	HALF SPOOL, CONCAVE	
12	140469	END COLLAR	
13	141154	WASHER GANG SHAFT	
14	23085	NUT HEX SLOTTED 1 3/4-5	
15	1-647-010004257	PIN,SPRING,SLOTTED 3/8X2-1/2	
16	172724	ARM, SCRAPER	
17	246756	SCREW FLANGE HD 1/2-20X2 GR 8 (USED WITH NON ROLLABLE)	
17	160161	SHAKER BOLT1/2-13X1-3/4 GR8ZP (USED WITH ROLLABLE)	
18	209393	NUT,1/2-20,LG FLNG HD TOP LOCK (USED WITH NON ROLLABLE)	
18	172509	NUT,1/2-13 WIDE FLNG TOP LCK F (USED WITH ROLLABLE)	
19	166718	SCRAPER, 5-1/2"	
20	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	
21	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	
22	140481	SHANK, DISC BEARING, RIGHT (SHOWN RT FRONT LT REAR)	
22	140482	SHANK, DISC BEARING, LEFT (NOT SHOWN LT FRONT RT REAR)	
23	140484	U-BOLT, 3/4 X 5	
24	140483	PLATE, DISC SHANK MOUNT	
25	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	
26	140490	MOUNT, SCRAPER BAR RIGHT (SHOWN RT FRONT LT REAR)	
26	140491	MOUNT, SCRAPER BAR LEFT (NOT SHOWN LT FRONT RT REAR)	
27	143988	STOP, DISC SHANK (USED ON NON-ROLLABLE BLADE OPTION)	
28	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	
29	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	
29	114029	SCREW HX CAP 3/4-10X4 GR8 (USED ON NON-ROLLABLE BLADE OPTION)	
30	140480	WASHER, TRUNNION	
31	140479	MOUNT, TRUNNION	
32	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	
33	140487	UBOLT, SCRAPER BAR MOUNT	
34	180141	SCRAPER, DUAL LT, 7-24" LC (NOT SHOWN LT FRONT RT REAR)	
34	180140	SCRAPER, DUAL RT, 7-24" LC (SHOWN RT FRONT LT REAR)	
35	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	
36	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	
37	153709	WASHER, DISC GANG END	
38	153631	WASHER, FLAT 1/2HD (USED WITH NON ROLLABLE)	

Gang Adjust Assembly Center

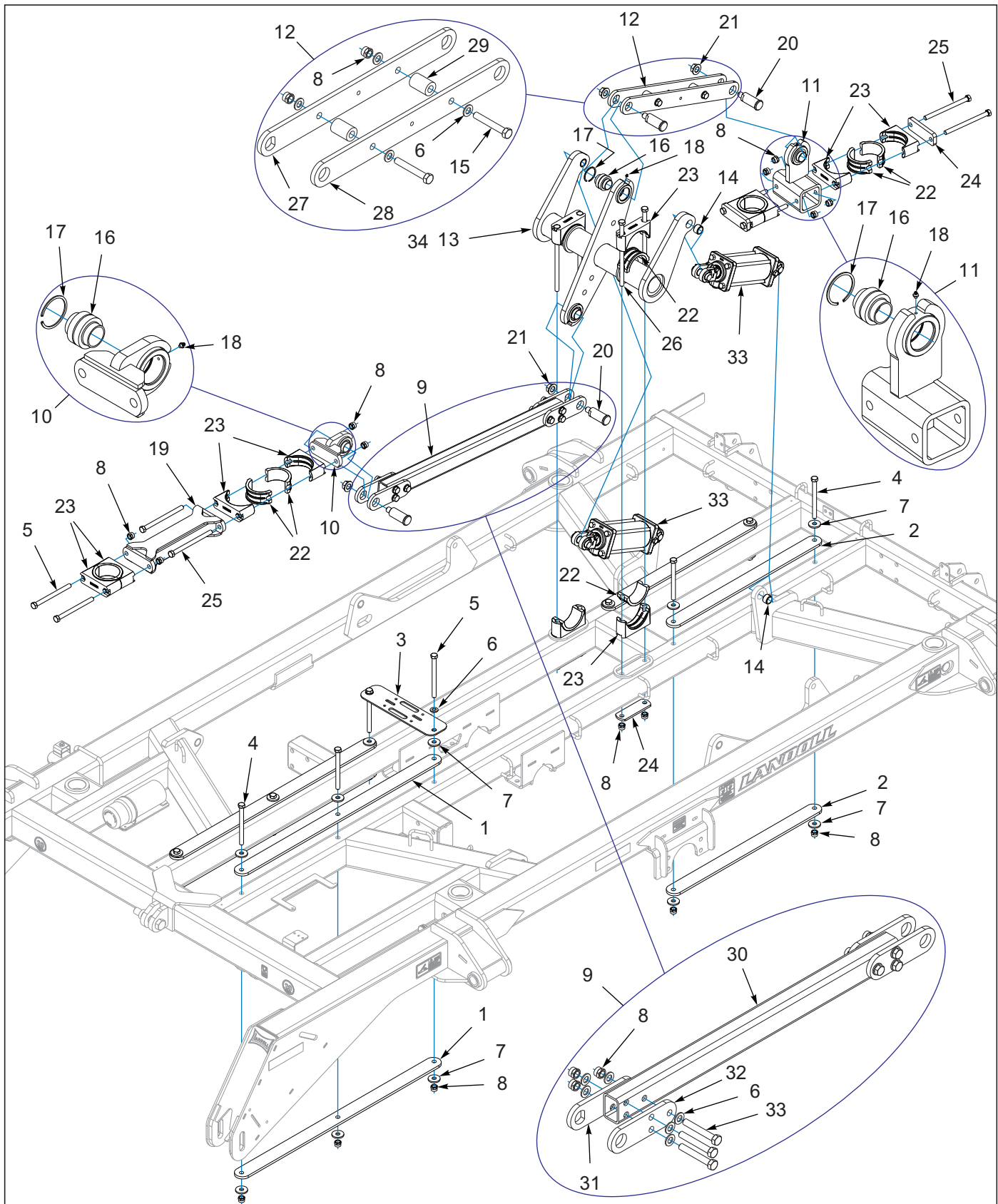


Figure 4-2: Gang Adjust Assembly Center

Gang Adjust Assembly Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	250245	SLIDE, CENTER FRONT (7531-23'-35')	4
2	250246	SLIDE, CENTER REAR (7531-23'-35')	4
3	253573	PLATE, HOSE GUIDE (7531-23'-29' ONLY)	1
4	1-654-010061-22	SCREW, HEX CAP, 3/4-10UNCX8-1/2	8
5	1-654-010032-23	SCREW HXCP 3/4-10X9 GR8	4
6	1-861-010032-20	WASHER, FLAT, 3/4 N ZP/CD	18
7	200259	WASHER, 3/4 HEAVY - 2-1/4	20
8	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	30
9	250209	ASSY, LINK FT GANG 53-3/4 (INCLUDES ITEMS 6, 8, 30-33) (7531-23'-29')	1
9	250200	ASSY, LINK FRONT GANGS 46-1/2 (INCLUDES ITEMS 6, 8, 30-33) (7531-32'-35')	1
10	207854	LINK, FRONT GANGS WLDMT (INCLUDES ITEMS 16-18)	1
11	249910	MOUNT, REAR GANGS (INCLUDES ITEMS 16-18)	1
12	250210	ASSY, LINK RR GANGS 29" (INCLUDES ITEMS 6, 8, 27-29) (7531-23'-29')	1
12	250201	ASSY, LINK REAR GANGS 26-3/8 (7531-32'-35')	1
13	249921	ASSY, GANG ADJ LIFT NC 8" (7531-23'-26')	1
13	249923	ASSY, GANG ADJ LIFT WC (7531-29')	1
13	249922	ASSY, GANG ADJ LIFT NC 10" (7531-32'-35')	1
14	2-150-010174	BUSHING, 1-5/8X1-1/4X1	4
15	1-654-010061-15	SCREW, HX CP 3/4-10UNCX5 GR5	8
16	206605	BEARING, SPH EXT 1-3/4 DIA	3
17	207885	SNAP RING, INTERNAL-2.81	3
18	1-298-010001-1	ZERK FITTING 1/4 SAE	3
19	204533	CONNECTOR, FRONT GANGS WLDMT	1
20	250202	PIN, GANG ADJ	4
21	174732	NUT, FLG HD, TOPLOCK, 1-8 UNC	4
22	2P793	BRG INSERT, 4 1/2 INSERT	12
23	188038	BRG HALF, 4-1/2 INSERT	12
24	207918	PLATE, CLAMP	4
25	1-654-010032-25	SCREW HX CP 3/4-10X10 GR8	6
26	155965	SCREW HX CP 3/4-10UNCX14 GR5B	4
27	250212	PLATE, LINK FLAT 29" (7531-23'-29')	1
27	250206	PLATE, LINK FLAT (7531-32'-32')	1
28	250211	PLATE, LINK ROUND 29" (7531-23'-29')	1
28	250205	PLATE, LINK ROUND (7531-32'-32')	1
29	250207	BUSHING, CLAMP 2.63 L	2
30	250213	TUBE, LINK 46-1/4	1
31	250204	PLATE, LINK FLAT	2
32	250203	PLATE, LINK ROUND	2
33	247538	CYLINDER, 4-1/2 X 8, REPHASE (7531-23'-26') (SEE PAGE 6-6)	2
33	247550	CYLINDER, 4-1/2 X 10, REPHASE (7531-29'-35') (SEE PAGE 6-4)	2
34	249920	LIFT, GANG ADJ NC-8" (7531-23'-26')	1
34	249913	LIFT, GANG ADJ WC (7531-29')	1
34	249912	LIFT, GANG ADJ NC-10" (7531-32'-32')	1

Gang Assembly Center

NOTE: Use Item 5 Washer Shim
As Needed To Remove Vertical Movement.
Use 1 Or 2 Per Bearing. Washers Must Be Loose
After Torqueing Slotted Nut To 200 FT-LBS.

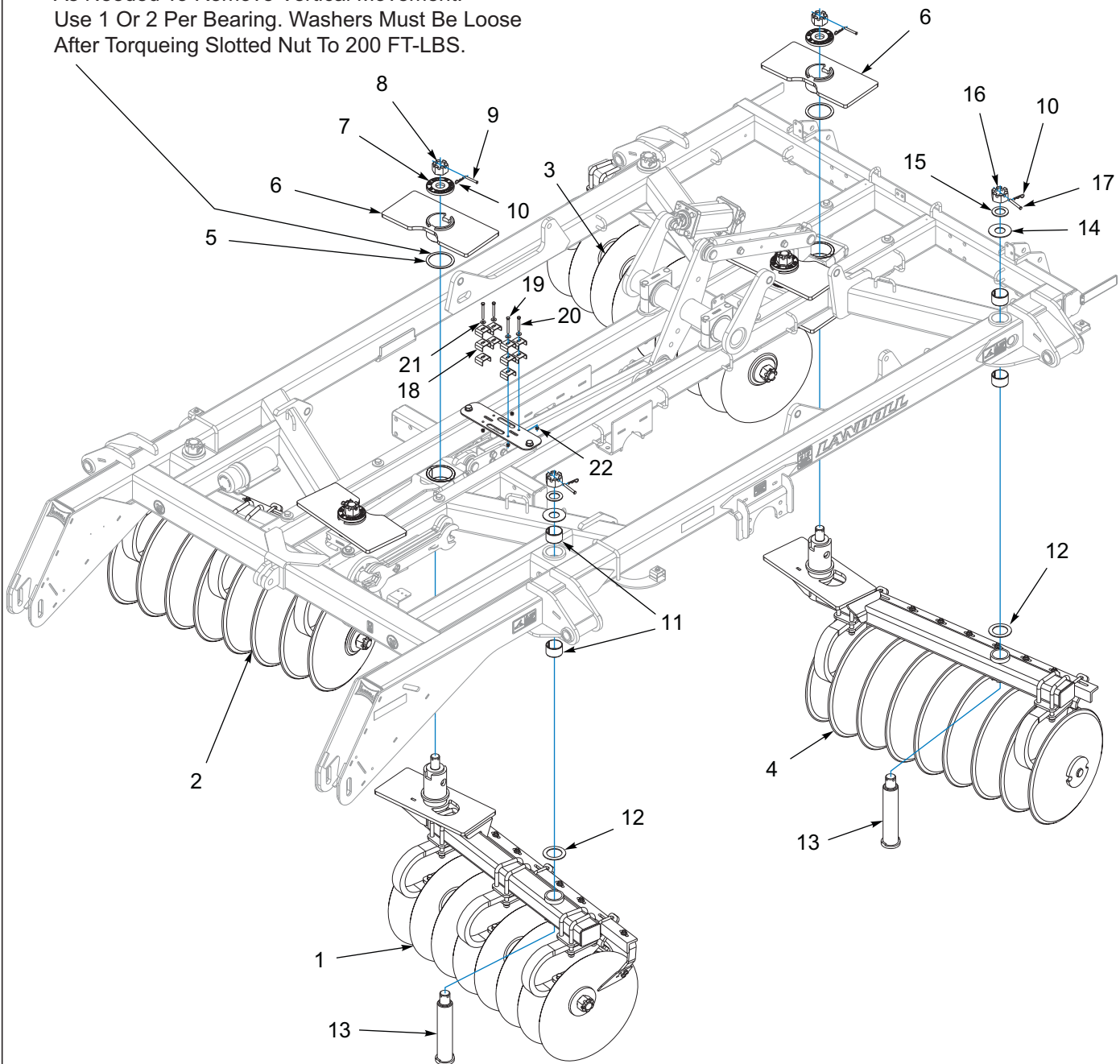


Figure 4-3: Gang Assembly Center

Gang Assembly Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	LCF GANGBAR W/BLADES (SEE PAGE 4-1 FOR GANG ASSEMBLY) & (SEE PAGE 4-15 7530-23') (SEE PAGE 4-17 7530-26') (SEE PAGE 4-19 7530-29') (SEE PAGE 4-21 7530-32') for GANG PLACEMENT) (SEE PAGE 4-23 7530-35') for GANG PLACEMENT)	1
2	-----	RCF GANGBAR W/BLADES (SEE PAGE 4-1 FOR GANG ASSEMBLY) & (SEE PAGE 4-15 7530-23') (SEE PAGE 4-17 7530-26') (SEE PAGE 4-19 7530-29') (SEE PAGE 4-21 7530-32') for GANG PLACEMENT) (SEE PAGE 4-23 7530-35') for GANG PLACEMENT)	1
3	-----	RCR GANGBAR W/BLADES (SEE PAGE 4-1 FOR GANG ASSEMBLY) & (SEE PAGE 4-15 7530-23') (SEE PAGE 4-17 7530-26') (SEE PAGE 4-19 7530-29') (SEE PAGE 4-21 7530-32') for GANG PLACEMENT) (SEE PAGE 4-23 7530-35') for GANG PLACEMENT)	1
4	-----	LCR GANGBAR W/BLADES (SEE PAGE 4-1 FOR GANG ASSEMBLY) & (SEE PAGE 4-15 7530-23') (SEE PAGE 4-17 7530-26') (SEE PAGE 4-19 7530-29') (SEE PAGE 4-21 7530-32') for GANG PLACEMENT) (SEE PAGE 4-23 7530-35') for GANG PLACEMENT)	1
5	195066	WASHER SHIM ROCKSHAFT	4
6	250248	SLIDE, CF GANG BAR	4
7	221224	ASSY, WASHER/DECAL	4
8	23085	NUT HEX SLOTTED 1 3/4-5	4
9	2-557-010262	PIN, CLEVIS, ASSY 3/8X3	4
10	1-557-010403	HAIRPIN 1/8	8
11	144341	BUSHING, SPRING 3-1/4X3X2	8
12	206709	WASHER, THRUST - 3"	4
13	249980	PIN, GANG PIVOT 13-1/4 L	4
14	254961	WASHER, THRUST 2"(PAINTED BLUE)	4
15	164471	WASHER, THRUST 2" (STAINLESS STEEL)	4
16	172891	NUT HX SLOT 2-4-1/2 ZP	4
17	225097	PIN, CLEVIS 7/16 X 3-1/2	4
18	2-181-010001	HOSE CLAMP	10
19	1-654-010051-15	SCREW HXCP 3/8-16UNCX3-1/2 G5	2
20	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	2
21	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
22	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4

Gang Assembly Wing 23'

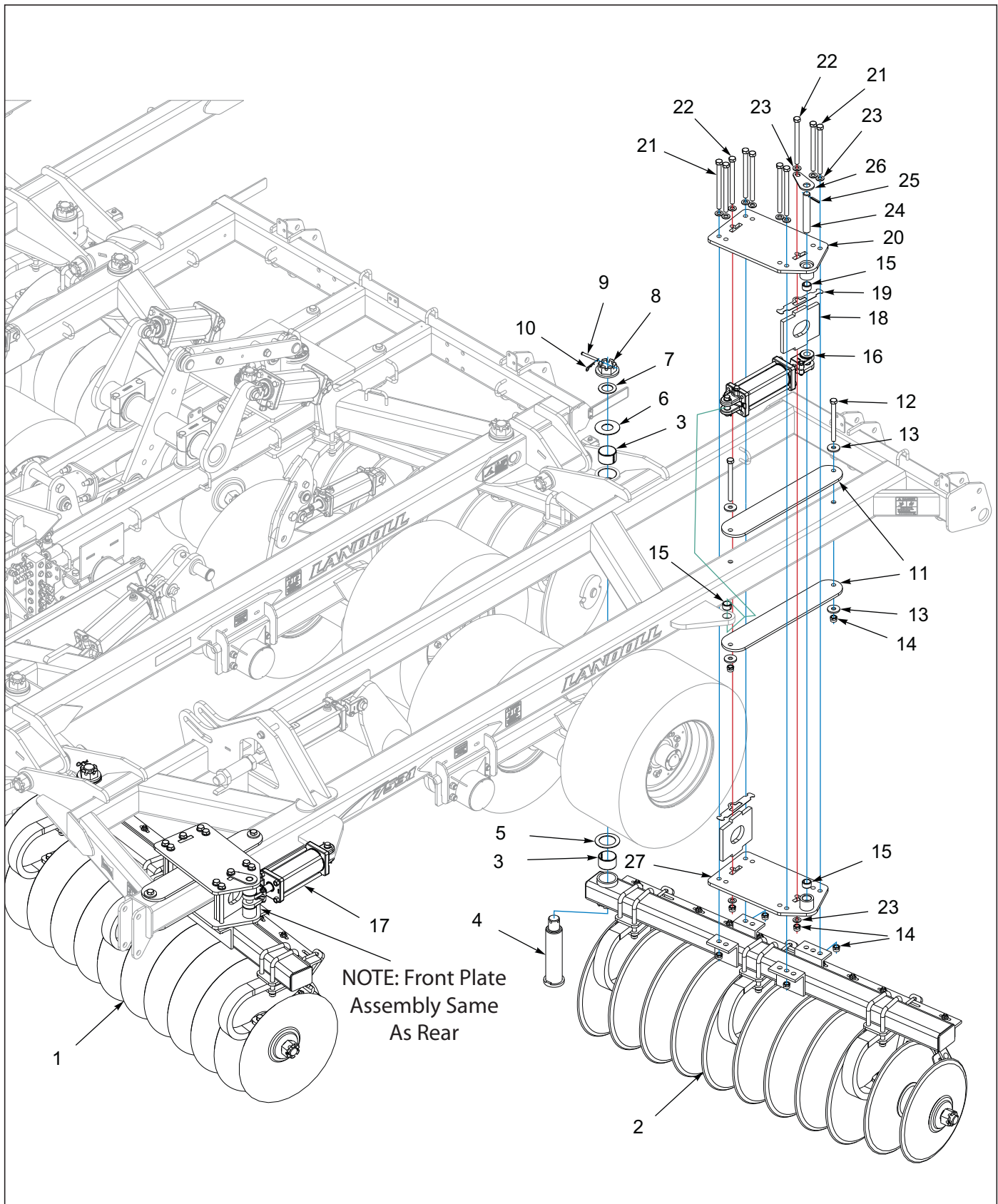


Figure 4-4: Gang Assembly Wing 23'

Gang Assembly Wing 23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	LCF GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
1	-----	RCF GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
2	-----	LCR GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
2	-----	RCR GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
3	144341	BUSHING, SPRING 3-1/4X3X2	8
4	253480	PIN, GANG PIVOT 11-1/4 L	4
5	206709	WASHER, THRUST - 3"	4
6	254961	WASHER, THRUST 2" (PAINTED BLUE)	4
7	164471	WASHER, THRUST 2" (STAINLESS STEEL)	4
8	172891	NUT HX SLOT 2-4-1/2 ZP	4
9	225097	PIN, CLEVIS 7/16 X 3-1/2	4
10	1-557-010403	HAIRPIN 1/8	4
11	250237	SLIDE, OUTER WING-23/26	8
12	107491	SCREW HX CP 3/4-10X8-1/2 GR8	8
13	200259	WASHER, 3/4 HEAVY - 2-1/4	16
14	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	48
15	2-150-010174	BUSHING,1-5/8X1-1/4X1	8
16	254277	CYL,3-3/4 X 8,REPHASE,1.25 PIN (SEE PAGE 6-8)	2
17	254278	CYL, 4 X 8, REPHASE, 1.25 PIN (SEE PAGE 6-7)	2
18	250229	PLATE, SLIDE SPACER	8
19	219730	SHEET, SHIM	8
20	255035	MOUNT, GANG SLIDE RT	4
21	1-654-010032-25	SCREW HX CP 3/4-10X10 GR8	32
22	3/4-10X9-1/2CS8	SCREW,CAP HEX HEAD GR8	8
23	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	48
24	215411	PIN, 1-1/4 X 8-1/2	4
25	147072	PIN, SPRING SLOTTED 5/16 X 2	4
26	255041	PLATE, KEEPER-3.81	4
27	255036	MOUNT, GANG SLIDE LT	4

Gang Assembly Wing 7531-26'-35'

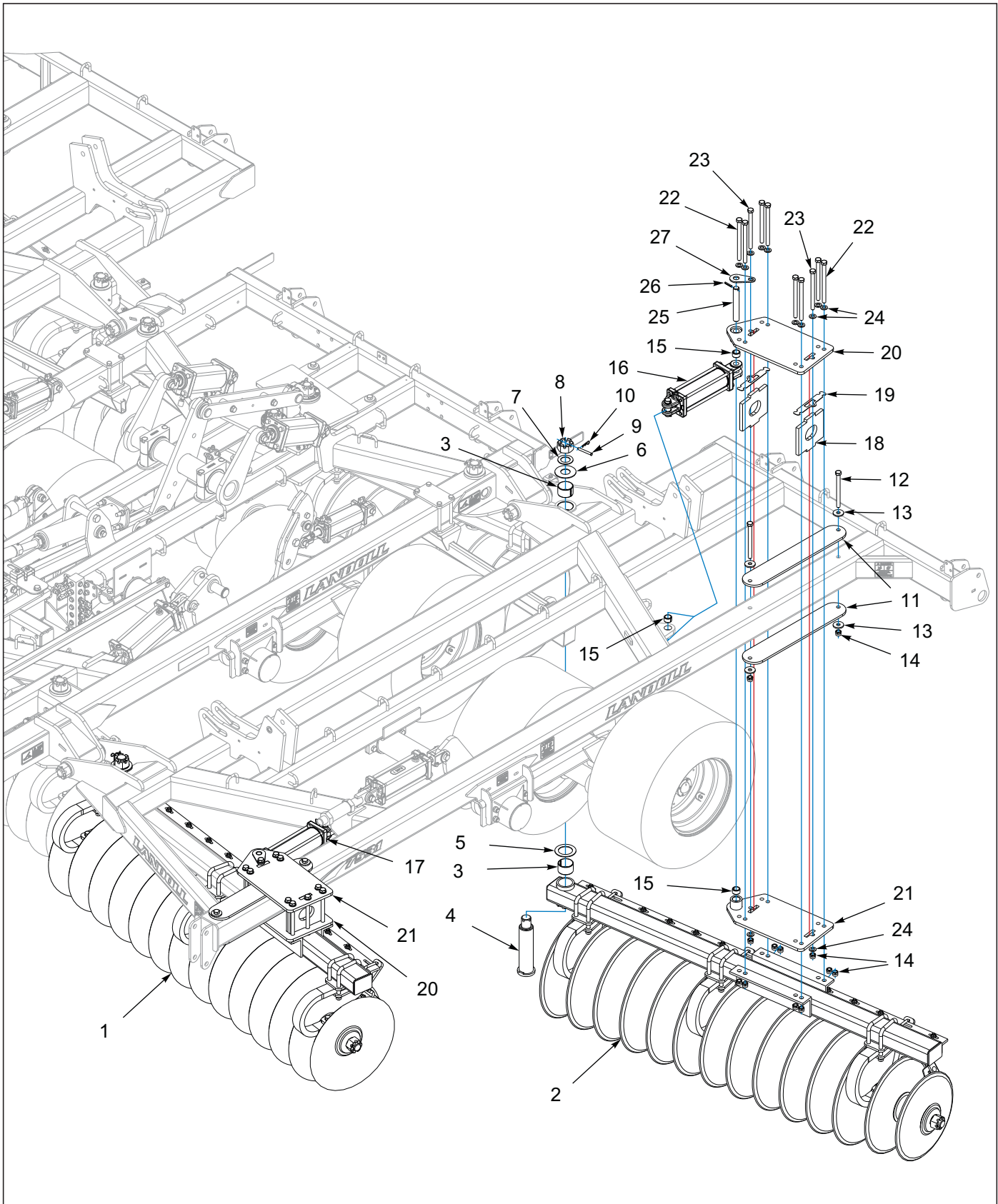


Figure 4-5: Gang Assembly Wing 7531-26'-35'

Gang Assembly Wing 7531-26'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	-----	LCF GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
1	-----	RCF GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
2	-----	LCR GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
2	-----	RCR GANGBAR W/BLADES (SEE PAGE 4-1) AND (SEE PAGE 4-15 THRU SEE PAGE 4-23)	1
3	144341	BUSHING, SPRING 3-1/4X3X2	8
4	253480	PIN, GANG PIVOT 11-1/4 L	4
5	206709	WASHER, THRUST - 3"	4
6	254961	WASHER, THRUST 2" (PAINTED BLUE)	4
7	164471	WASHER, THRUST 2" (STAINLESS STEEL)	4
8	172891	NUT HX SLOT 2-4-1/2 ZP	4
9	225097	PIN, CLEVIS 7/16 X 3-1/2	4
10	1-557-010403	HAIRPIN 1/8	4
11	250237	SLIDE, OUTER WING-23/26	8
11	250236	SLIDE, OUTER WING (7531-29'-32'-35')	8
12	107491	SCREW HX CP 3/4-10X8-1/2 GR8	8
13	200259	WASHER, 3/4 HEAVY - 2-1/4	16
14	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	48
15	2-150-010174	BUSHING,1-5/8X1-1/4X1	8
16	254277	CYL,3-3/4 X 8,REPHASE,1.25 PIN (7531-26') (SEE PAGE 6-8)	2
16	247548	CYL,3-3/4X10, REPHASE 1.25 PIN (7531-29'-32'-35') (SEE PAGE 6-13)	2
17	254278	CYL, 4 X 8, REPHASE, 1.25 PIN (7531-26') (SEE PAGE 6-7)	2
17	247549	CYL, 4 X 10, REPHASE 1.25 PIN (7531-29'-32'-35') (SEE PAGE 6-1)	2
18	250229	PLATE, SLIDE SPACER	8
19	219730	SHEET, SHIM	8
20	250226	MOUNT, GANG SLIDE LT (USED ON LEFT REAR TOP, LEFT FRONT BOTTOM, RIGHT REAR BOTTOM, RIGHT FRONT TOP)	4
21	250225	MOUNT, GANG SLIDE RT (USED ON LEFT REAR BOTTOM, LEFT FRONT TOP, RIGHT REAR TOP, RIGHT FRONT BORROM)	4
22	1-654-010032-25	SCREW HX CP 3/4-10X10 GR8	32
23	3/4-10X9-1/2CS8	SCREW,CAP HEX HEAD GR8	8
24	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	48
25	215411	PIN, 1-1/4 X 8-1/2	4
26	147072	PIN, SPRING SLOTTED 5/16 X 2	4
27	219731	PLATE, KEEPER	4

Gang Wing Gauge Assembly 7531-23'

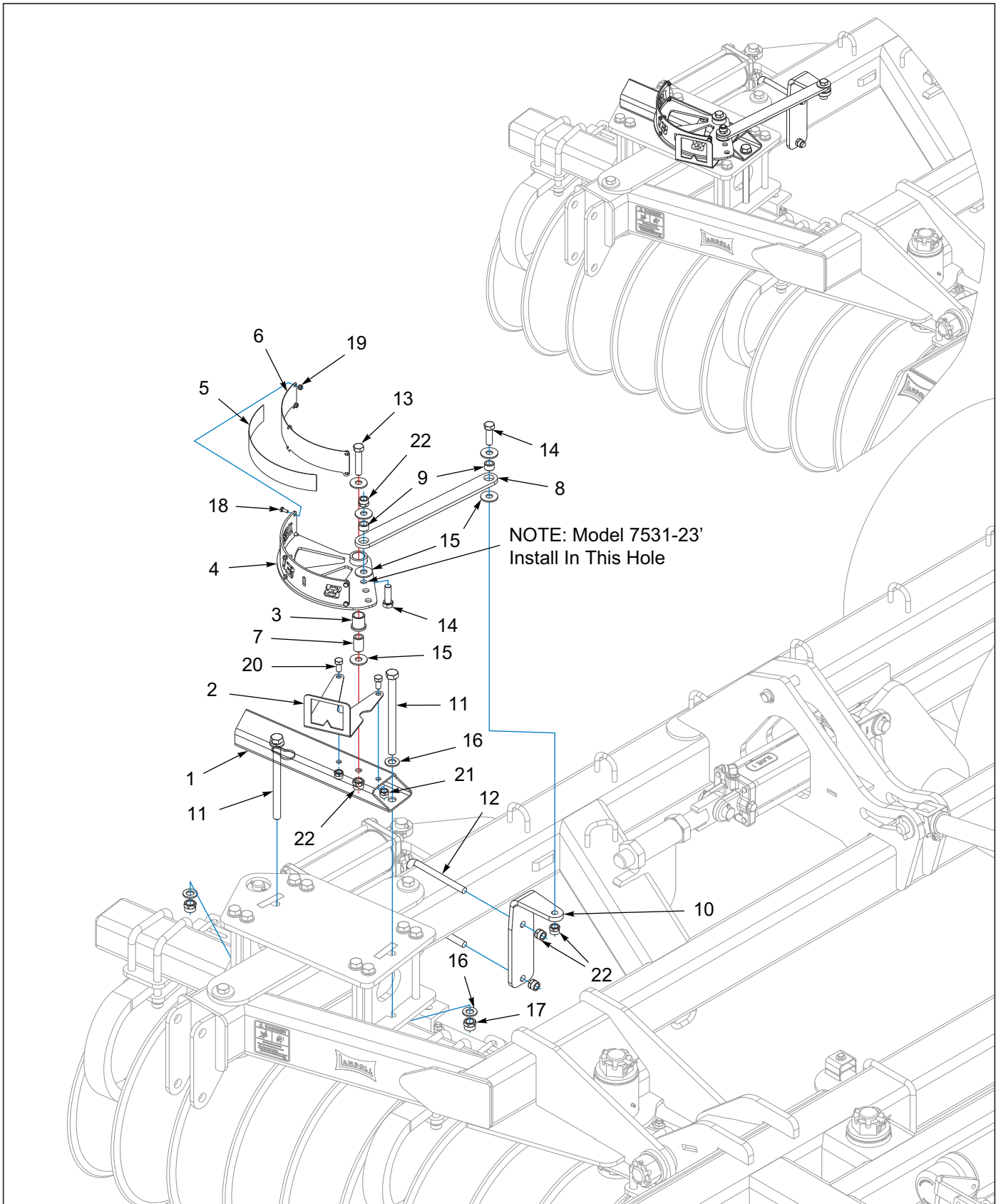


Figure 4-6: Gang Wing Gauge Assembly 7531-23'

Gang Wing Gauge Assembly 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	255046	TUBE, GAUGE-23	1
2	207939	GAUGE, INDICATOR	1
3	144264	BEARING, FLANGE 1"	1
4	250233	DIAL, GANG ADJ 8-18	1
5	209623	TAPE WHITE REFLECTIVE	1
6	209622	GAUGE, BACK PLATE	1
7	209621	BUSHING, GAUGE CLAMP	1
8	209618	LINK, GAUGE	1
9	168762	BUSHING, 1 X .640 X 5/8	2
10	250307	PLATE, GAUGE ARM	1
11	3/4-10X9-1/2CS8	SCREW,CAP HEX HEAD GR8	2
12	141269	U-BOLT, WING STABILIZER	1
13	1-654-010059-09	SCREW 5/8-11UNCX3 HX CP GR5	1
14	1-654-010059-05	SCREW,HEX CAP,5/8-11UNCX2 GR5	2
15	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	6
16	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	4
17	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2
18	1-654-010047-03	SCREW, HEX 1/4-20UNCX5/8	6
19	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	6
20	1-654-010055-01	SCR,HX CP 1/2-13UNCX1 GR5	2
21	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	5

Gang Wing Gauge Assembly 7531-26'-35'

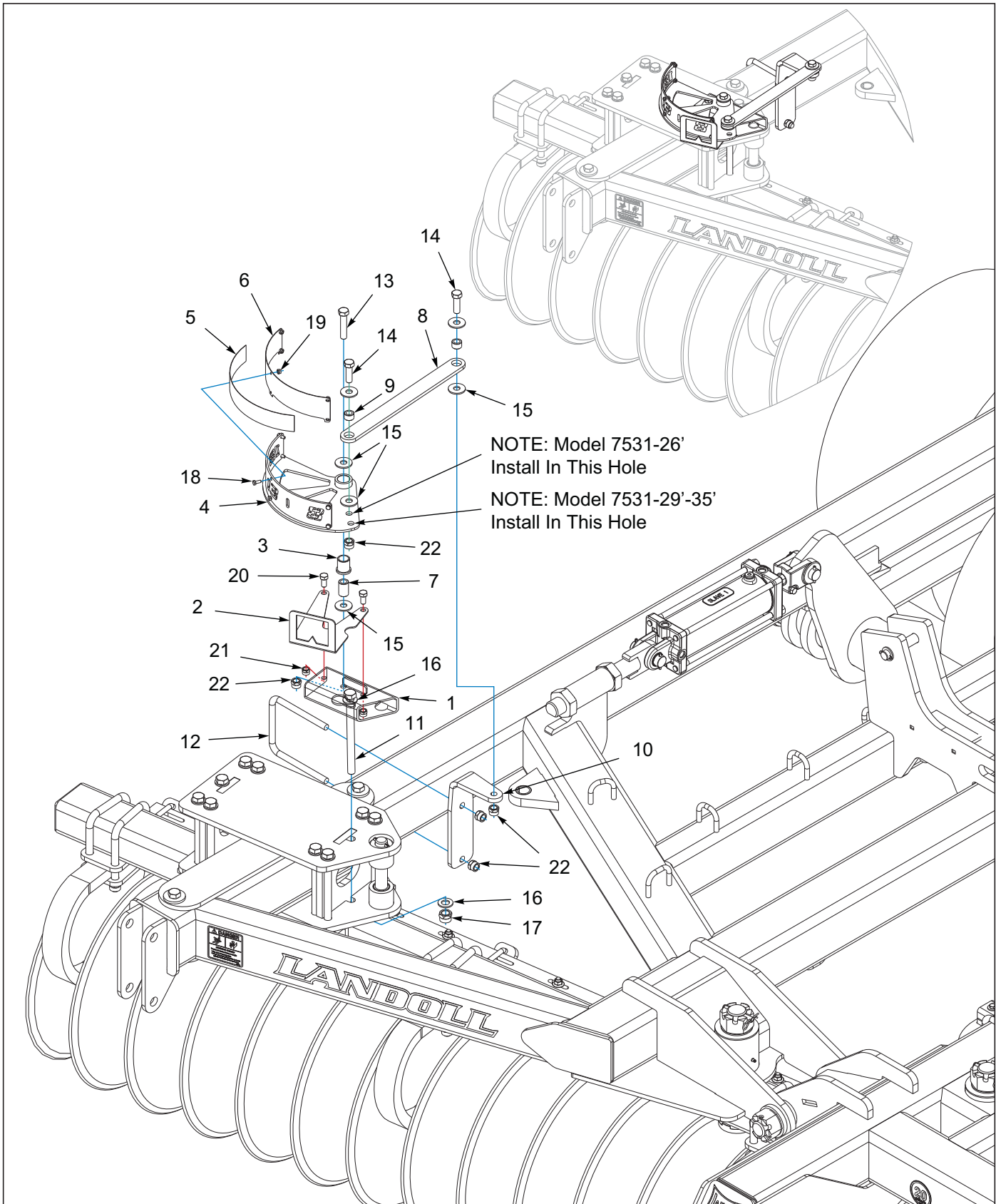


Figure 4-7: Gang Wing Gauge Assembly 7531-26'-35'

Gang Wing Gauge Assembly 7531-26'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	250230	TUBE, GAUGE	1
2	207939	GAUGE, INDICATOR	1
3	144264	BEARING, FLANGE 1"	1
4	250233	DIAL, GANG ADJ 8-18	1
5	209623	TAPE WHITE REFLECTIVE	1
6	209622	GAUGE, BACK PLATE	1
7	209621	BUSHING, GAUGE CLAMP	1
8	209618	LINK, GAUGE	1
9	168762	BUSHING, 1 X .640 X 5/8	2
10	250307	PLATE, GAUGE ARM	1
11	3/4-10X9-1/2CS8	SCREW,CAP HEX HEAD GR8	2
12	141269	U-BOLT, WING STABILIZER	1
13	1-654-010059-09	SCREW 5/8-11UNCX3 HX CP GR5	1
14	1-654-010059-05	SCREW,HEX CAP,5/8-11UNCX2 GR5	2
15	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	6
16	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	4
17	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2
18	1-654-010047-03	SCREW, HEX 1/4-20UNCX5/8	6
19	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	6
20	1-654-010055-01	SCR,HX CP 1/2-13UNCX1 GR5	2
21	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
22	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	5

Disc Gang Assembly 7531-23'

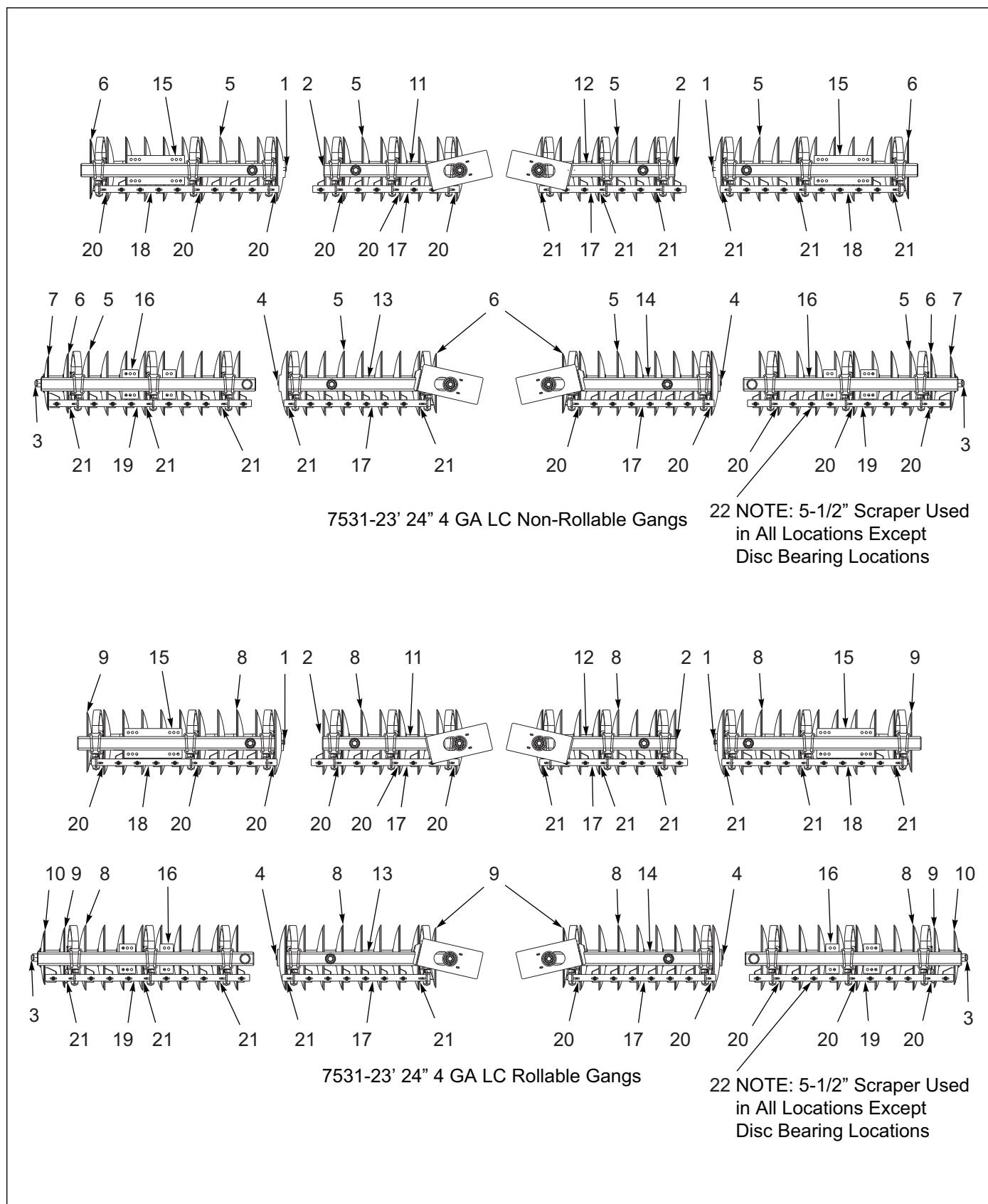


Figure 4-8: Disc Gang Assembly 7531-23'

DiscGang Assembly 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	250314	ING 7-24 4 GA LC STD GANG 23	*	
--	250320	ROLL 7-24 4 GA LC GANG 23		*
1	215384	GANG SHAFT, WELDED, 74-1/8"	2	2
2	153713	SHAFT, GANG 55-1/2 L	2	2
3	142581	SHAFT, GANG 77 L	2	2
4	215389	GANG SHAFT, WELDED 60-1/8"	2	2
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	70	--
6	155617	DISC BLADE, 22"X1/4" 1-3/4 ID (NON-ROLLABLE)	6	--
7	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	2	--
8	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	70
9	155618	DISC BLADE, 22"X1/4" 1-3/4 ID (ROLLABLE)	--	6
10	155619	DISC BLADE, 20"X1/4" 1-3/4 ID (ROLLABLE)	--	2
11	249863	GANG BAR, LCF 7531 NC	1	1
12	249862	GANG BAR, RCF 7531 NC	1	1
13	249865	GANG BAR, LCR 7531 NC	1	1
14	249864	GANG BAR, RCR 7531 NC	1	1
15	249874	GANG BAR, WING FRONT 23	2	2
16	249875	GANG BAR, WING REAR 23	2	2
17	153699	SCRAPER BAR, 7 SP 8 HOLE	4	4
18	153701	SCRAPER BAR, 7 SP 10HOLE	2	2
19	153702	SCRAPER BAR, 7 SP 11 HOLE	2	2
20	180141	SCRAPER, DUAL LT, 7-24" LC	11	11
21	180140	SCRAPER, DUAL RT, 7-24" LC	10	10
22	166718	SCRAPER, 5-1/2"	52	52

Disc Gang Assembly 7531-26'

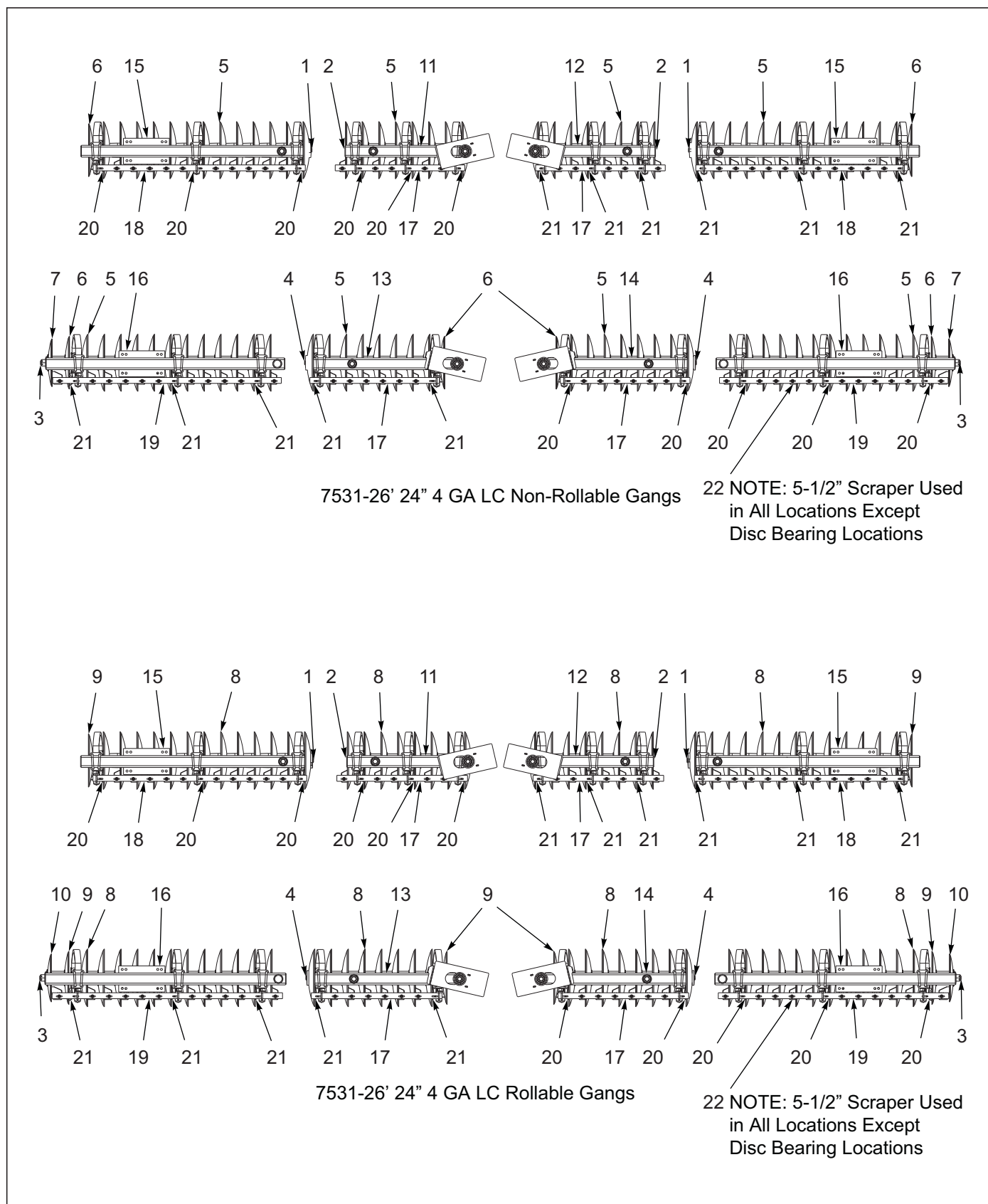


Figure 4-9: Disc Gang Assembly 7531-26'

DiscGang Assembly 7531-26'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	250315	ING 7-24 4 GA LC GANG 26	*	
--	250321	ROLL 7-24 4 GA LC GANG 26		*
1	215391	GANG SHAFT, WELDED, 95-1/2	2	2
2	153713	SHAFT, GANG 55-1/2 L	2	2
3	156082	SHAFT, GANG 98 L	2	2
4	215389	GANG SHAFT, WELDED 60-1/8"	2	2
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	82	--
6	155617	DISC BLADE, 22"X1/4" 1-3/4 ID (NON-ROLLABLE)	6	--
7	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	2	--
8	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	82
9	155618	DISC BLADE, 22"X1/4" 1-3/4 ID (ROLLABLE)	--	6
10	155619	DISC BLADE, 20"X1/4" 1-3/4 ID (ROLLABLE)	--	2
11	249863	GANG BAR, LCF 7531 NC	1	1
12	249862	GANG BAR, RCF 7531 NC	1	1
13	249865	GANG BAR, LCR 7531 NC	1	1
14	249864	GANG BAR, RCR 7531 NC	1	1
15	249876	GANG BAR, WING FRONT 26	2	2
16	249877	GANG BAR, WING REAR 26	2	2
17	153699	SCRAPER BAR, 7 SP 8 HOLE	4	4
18	153704	SCRAPER BAR, 7 SP 13 HOLE	2	2
19	153705	SCRAPER BAR, 7 SP 14 HOLE	2	2
20	180141	SCRAPER, DUAL LT, 7-24" LC	11	11
21	180140	SCRAPER, DUAL RT, 7-24" LC	11	11
22	166718	SCRAPER, 5-1/2"	64	64

Disc Gang Assembly 7531-29'

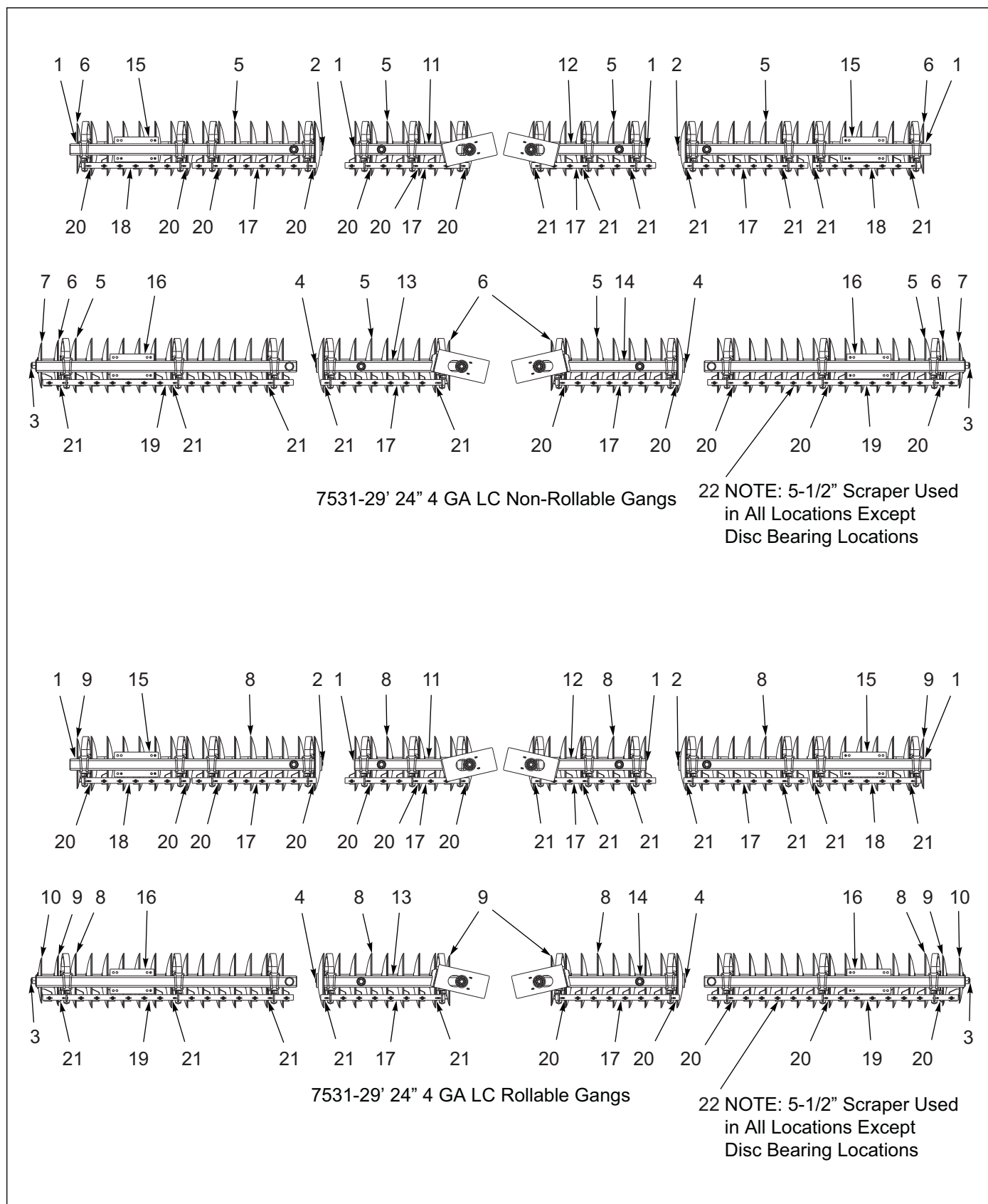


Figure 4-10: Disc Gang Assembly 7531-29'

DiscGang Assembly 7531-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	250316	ING 7-24 4GA LC STD GANG 29	*	
--	250322	ROLL 7-24 4GA LC STD GANG 29		*
1	153713	SHAFT, GANG 55-1/2 L	4	4
2	215383	GANG SHAFT, WELDED, 53-1/8"	2	2
3	149594	SHAFT, GANG 112	2	2
4	215389	GANG SHAFT, WELDED 60-1/8"	2	2
5	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	90	--
6	155617	DISC BLADE,22"X1/4" 1-3/4 ID (NON-ROLLABLE)	6	--
7	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	2	--
8	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	90
9	155618	DISC BLADE,22"X1/4" 1-3/4 ID (ROLLABLE)	--	6
10	155619	DISC BLADE,20"X1/4" 1-3/4 ID (ROLLABLE)	--	2
11	249863	GANG BAR, LCF 7531 NC	1	1
12	249862	GANG BAR, RCF 7531 NC	1	1
13	249865	GANG BAR, LCR 7531 NC	1	1
14	249864	GANG BAR, RCR 7531 NC	1	1
15	249878	GANG BAR, WING FRONT 29/32	2	2
16	249879	GANG BAR, WING REAR 29/32	2	2
17	153699	SCRAPER BAR, 7 SP 8 HOLE	4	4
18	153698	SCRAPER BAR, 7 SP 7 HOLE	2	2
19	180088	SCRAPER BAR, 7 SP 16 HOLE	2	2
20	180141	SCRAPER, DUAL LT, 7-24" LC	12	12
21	180140	SCRAPER, DUAL RT, 7-24" LC	12	12
22	166718	SCRAPER, 5-1/2"	70	70

Disc Gang Assembly 7531-32'

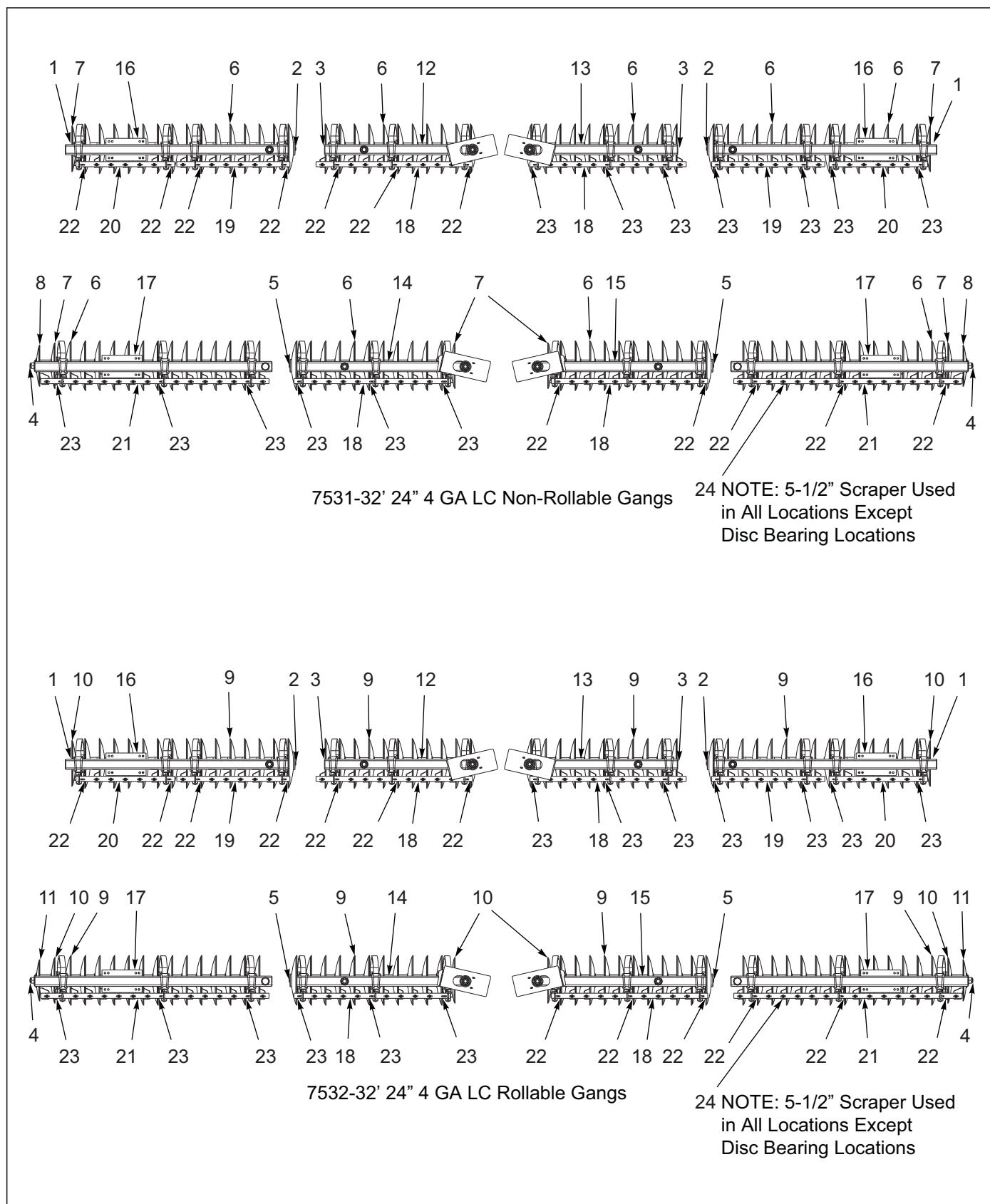


Figure 4-11: Disc Gang Assembly 7531-32'

DiscGang Assembly 7531-32'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	250317	ING 7-24 4GA LC STD GANG 32	*	
--	250323	ROLL 7-24 4 GA LC STD GANG 32	*	
1	153713	SHAFT, GANG 55-1/2 L	2	2
2	215383	GANG SHAFT, WELDED, 53-1/8"	2	2
3	141165	SHAFT, GANG 76-1/2 L	2	2
4	149594	SHAFT, GANG 112	2	2
5	215388	GANG SHAFT, WELDED, 81-1/8"	2	2
6	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	102	--
7	155617	DISC BLADE, 22"X1/4" 1-3/4 ID (NON-ROLLABLE)	6	--
8	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	2	--
9	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	102
10	155618	DISC BLADE, 22"X1/4" 1-3/4 ID (ROLLABLE)	--	6
11	155619	DISC BLADE, 20"X1/4" 1-3/4 ID (ROLLABLE)	--	2
12	249867	GANG BAR, LCF 7531 WC	1	1
13	249866	GANG BAR, RCF 7531 WC	1	1
14	249869	GANG BAR, LCR 7531 WC	1	1
15	249868	GANG BAR, RCR 7531 WC	1	1
16	249878	GANG BAR, WING FRONT 29/32	2	2
17	249879	GANG BAR, WING REAR 29/32	2	2
18	153702	SCRAPER BAR, 7 SP 11 HOLE	4	4
19	153699	SCRAPER BAR, 7 SP 8 HOLE	2	2
20	153698	SCRAPER BAR, 7 SP 7 HOLE	2	2
21	180088	SCRAPER BAR, 7 SP 16 HOLE	2	2
22	180141	SCRAPER, DUAL LT, 7-24" LC	13	13
23	180140	SCRAPER, DUAL RT, 7-24" LC	13	13
24	166718	SCRAPER, 5-1/2"	80	80

Disc Gang Assembly 7531-35'

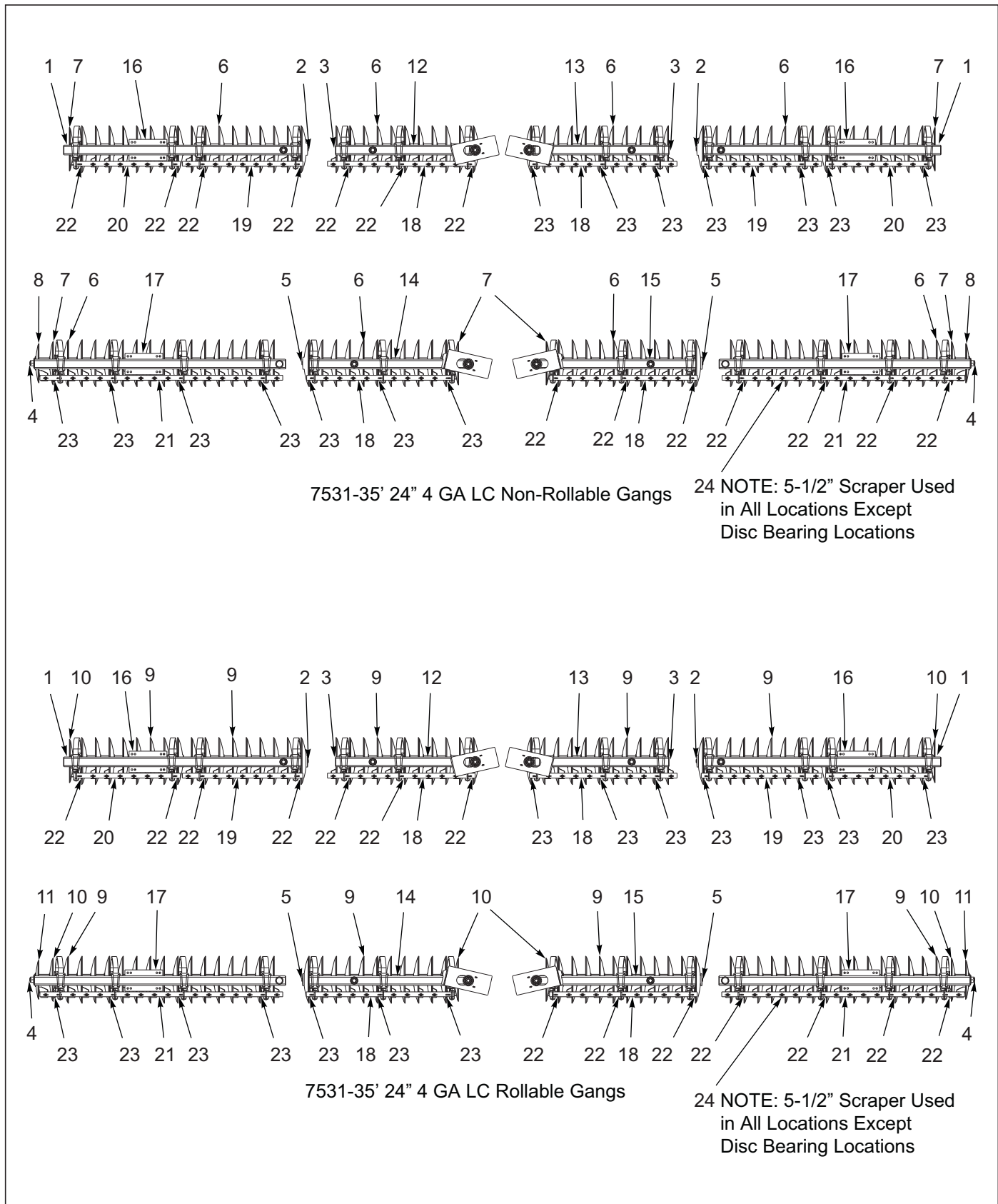


Figure 4-12: Disc Gang Assembly 7531-35'

DiscGang Assembly 7531-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	250318	ING 7-24 4GA LC GANG 35	*	
--	250324	ROLL 7-24 4GA LC STD GANG 35		*
1	154663	SHAFT, GANG 62-1/2 L	2	2
2	215389	GANG SHAFT, WELDED 60-1/8"	2	2
3	141165	SHAFT, GANG 76-1/2 L	2	2
4	212801	SHAFT, GANG 126	2	2
5	215388	GANG SHAFT, WELDED, 81-1/8"	2	2
6	161530A	ING DISC BLD, 24X1/4 1-3/4 ID (NON-ROLLABLE)	110	--
7	155617	DISC BLADE, 22"X1/4" 1-3/4 ID (NON-ROLLABLE)	6	--
8	186100	DISC BLADE, 20" X 1/4" 1-3/4ID (NON-ROLLABLE)	2	--
9	172076	DISC BLADE, 24"X1/4", 1-3/4"ID (ROLLABLE)	--	110
10	155618	DISC BLADE, 22"X1/4" 1-3/4 ID (ROLLABLE)	--	6
11	155619	DISC BLADE, 20"X1/4" 1-3/4 ID (ROLLABLE)	--	2
12	249867	GANG BAR, LCF 7531 WC	1	1
13	249866	GANG BAR, RCF 7531 WC	1	1
14	249869	GANG BAR, LCR 7531 WC	1	1
15	249868	GANG BAR, RCR 7531 WC	1	1
16	249880	GANG BAR, WING FRONT 35	2	2
17	249881	GANG BAR, WING REAR 35	2	2
18	153702	SCRAPER BAR, 7 SP 11 HOLE	4	4
19	153700	SCRAPER BAR, 7 SP 9 HOLE	2	2
20	153699	SCRAPER BAR, 7 SP 8 HOLE	2	2
21	212800	SCRAPER BAR, 7 SP 18 HOLE	2	2
22	180141	SCRAPER, DUAL LT, 7-24" LC	14	14
23	180140	SCRAPER, DUAL RT, 7-24" LC	14	14
24	166718	SCRAPER, 5-1/2"	86	86

Disc Bearing Assembly

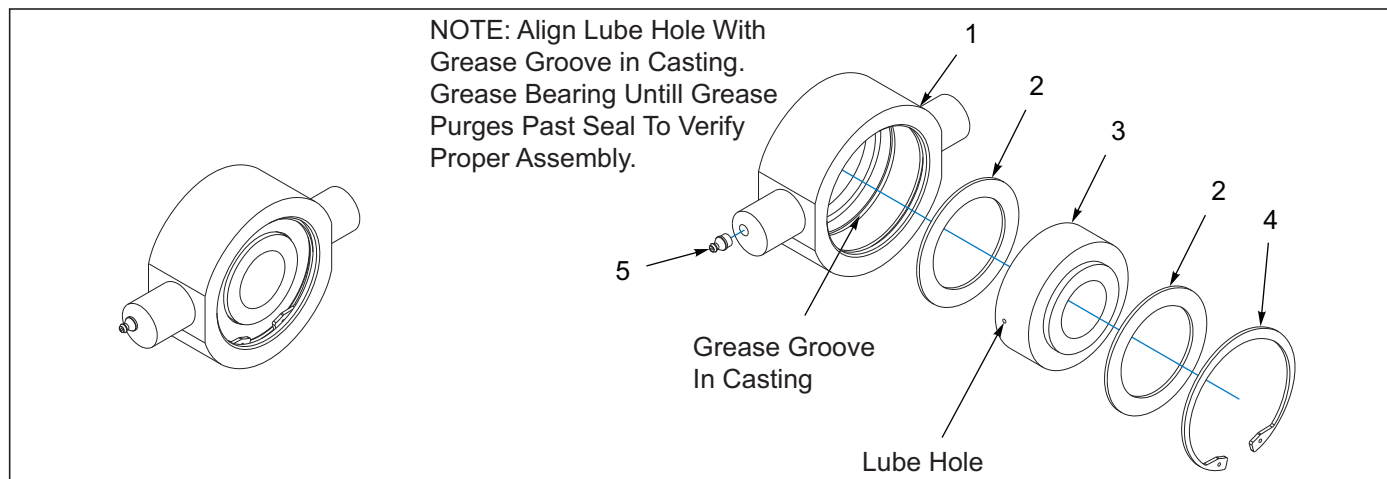


Figure 4-13: Disc Bearing Assembly

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

Table provided for general use.

[illegible]

Hydraulic Assemblies

Hydraulic Assembly Lift 7531-23'-26'-29'

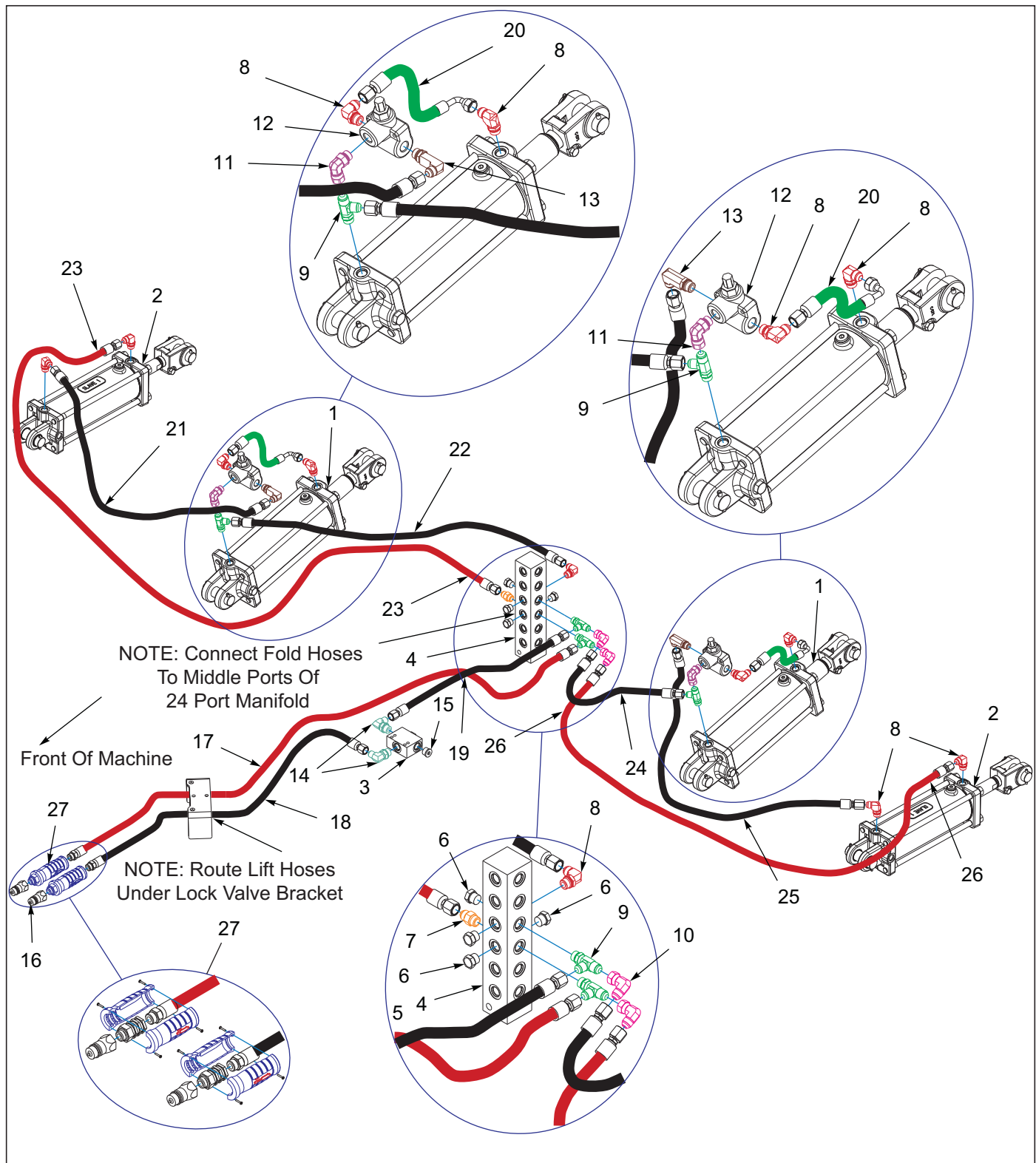


Figure 5-1: Hydraulic Assembly Lift 7531-23'-26'-29'

Hydraulic Assembly Lift 7531-23'-26'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	247550	CYLINDER, 4-1/2 X 10, REPHASE (SEE PAGE 6-3)	2
2	247549	CYL, 4 X 10, REPHASE 1.25 PIN (SEE PAGE 6-1)	2
3	203467	VALVE-LIMIT, STROKE	1
4	250288	MANIFOLD, FRONT 7531-26/29 (SEE PAGE 5-39)	1
5	191923	MANIFOLD HYDRAULIC 24 PORT	1
6	1-007-010025	PLUG, 3/4-16 O-RING BOSS	3
7	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	1
8	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	7
9	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	4
10	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	2
11	2P140	ELBOW, 08MOR X 08FJS X 90DEG	2
12	165287	VALVE, RELIEF, 1000PSI	2
13	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	2
14	2062-10-8S	ADAPTER,90, #10 O-RING-TUBE	2
15	143853	PLUG #10 M ORB HEX SOCKET	1
16	141828	COUPLER,MALE 3/4-16 O-RING	2
17	186238	HOSE 1/2X246 #8JIC X #8OR	1
18	186237	HOSE 1/2X195 #8JIC X #8OR	1
19	1-397-010301054	HOSE ASSY,1/2X54,SAE 37 STR	1
20	253566	HOSE ASSY, 3/8X11-8FJIC-8F90	2
21	1413184	HOSE ASSY #6 .38X106.25HIPRES (7531-23')	1
21	231852	HOSE ASSY, 3/8X122,-8FJX,-8FJX (7531-26')	1
21	217050	HOSE ASSY,3/8 X133-8FJIC-8FJIC (7531-29')	1
22	116432	HOSE ASSY, 3/8X60 #8 JIC SWV	1
23	194116	HOSE ASM,3/8 X 172,#8FJS (7531-23')	1
23	141883	HOSE ASSY 3/8X190 #8 JIC SWIV (7531-26')	1
23	71509000	HOSE ASM 3/8 X202 (7531-29')	1
24	147582	HOSE ASSY 3/8X24 #8 JIC SWIV	1
25	1413183	HOSE ASSY #6 .38X103.25HIPRES (7531-23')	1
25	117916	HOSE ASSY 3/8X110,#8 JIC SWVL (7531-26')	1
25	1422177	HOSE ASM, 3/8 X 118.25 (7531-29')	1
26	137599	HOSE ASSY 3/8X126.25 #8JIC SWV (7531-23')	1
26	141881	HOSE ASSY 3/8X136 #8 JIC SWIV (7531-26')	1
26	153620	HOSE ASSY 3/8X140 #8 JIC SWIV (7531-29')	1
27	251972	HOSE HANDLES, BLUE, 1/2" SET	1

Hydraulic Assembly Lift 7531-32'-35'

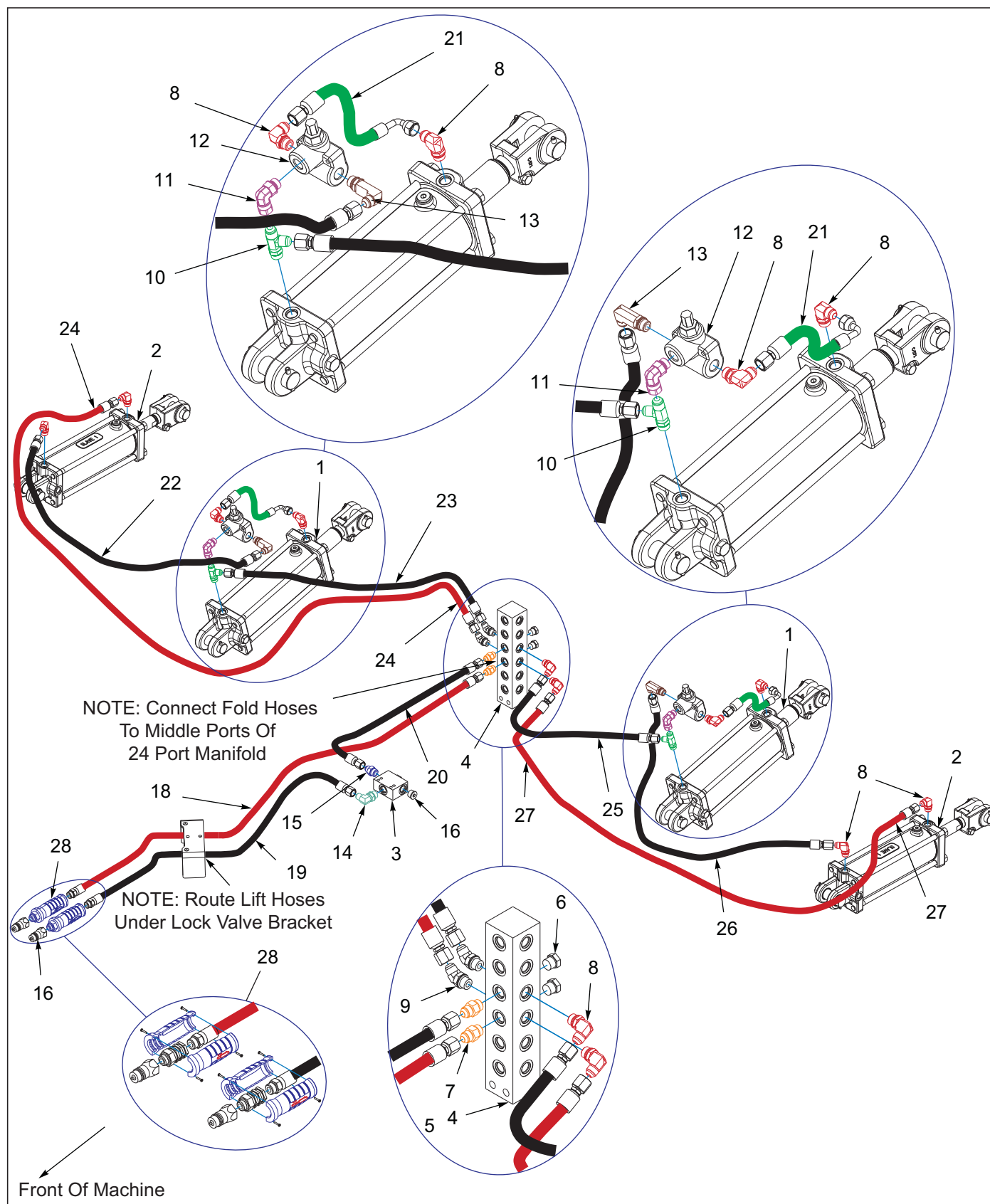


Figure 5-2: Hydraulic Assembly Lift 7531-32'-35'

Hydraulic Assembly Lift 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	247550	CYLINDER, 4-1/2 X 10, REPHASE	2
2	247549	CYL, 4 X 10, REPHASE 1.25 PIN	2
3	203467	VALVE-LIMIT, STROKE	1
4	250289	MANIFOLD, FRONT 7531-32/35	1
5	191923	MANIFOLD HYDRAULIC 24 PORT	1
6	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
7	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
8	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	10
9	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	2
10	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	2
11	2P140	ELBOW, 08MOR X 08FJS X 90DEG	2
12	165287	VALVE, RELIEF, 1000PSI	2
13	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	2
14	2062-10-8S	ADAPTER,90, #10 O-RING-TUBE	2
15	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	1
16	143853	PLUG #10 M ORB HEX SOCKET	1
17	141828	COUPLER,MALE 3/4-16 O-RING	2
18	166282	HOSE 1/2X37JICX3/4-16ORINGX240	1
19	256069	HOSE ASSY, 1/2X213-8FJX-8ORB	1
20	1-397-010301054	HOSE ASSY,1/2X54,SAE 37 STR	1
21	253566	HOSE ASSY, 3/8X11-8FJIC-8F90	2
22	153620	HOSE ASSY 3/8X140 #8 JIC SWIV	1
23	71508988	HOSE ASSY 3/8 X 80	1
24	71600088	HOSE ASSY 3/8 X228IN	1
25	153842	HOSE ASSY 3/8X33 #8 JIC SWIV	1
26	137598	HOSE ASSY #6 .38X123.25HIPRES	1
27	141889	HOSE ASSY 3/8X159 #8JIC SWIV	1
28	251972	HOSE HANDLES, BLUE, 1/2" SET	1

Fold Stabilizer Assembly 7531-23'

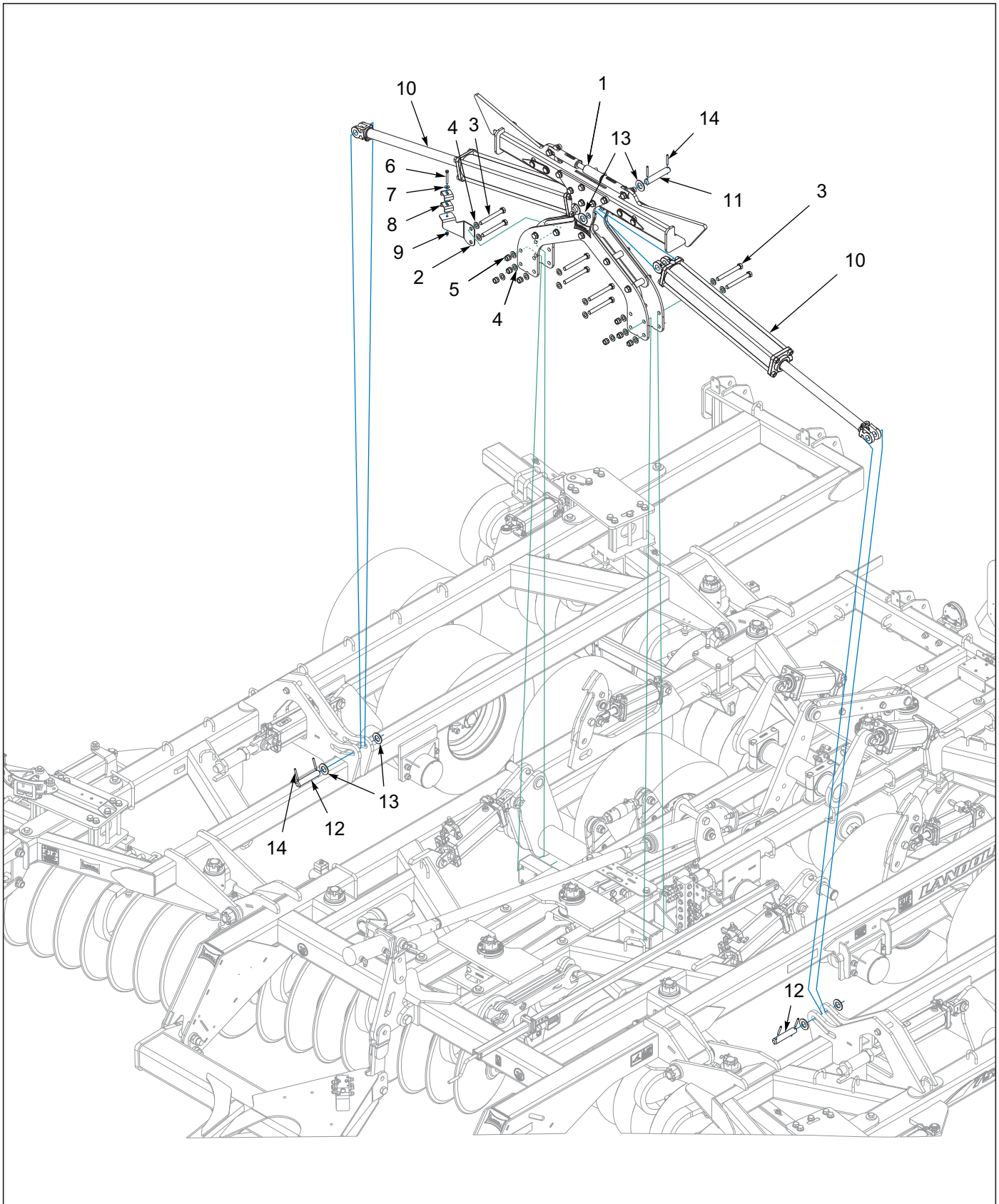


Figure 5-3: Fold Stabilizer Assembly 7531-23'

Fold Stabilizer Assembly 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	256057	ASSY, WING FOLD STAB-23	1
2	253571	MOUNT, HOSE NC	1
3	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	8
4	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	16
5	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
6	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	1
7	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
8	2-181-010001	HOSE CLAMP	2
9	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
10	254306	CYLINDER, 4-1/2 X 30, 2" ROD (SEE PAGE 6-21)	4
11	170291	PIN, 1-1/4 X 7	2
12	246860	PIN, 1-1/4 X 6-1/2	2
13	116100	WASHER 1-1/4 NAR FL ZP/CD	8
14	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	8

This diagram illustrates the assembly of a motorcycle rear suspension system. It features a main exploded view and two smaller inset diagrams at the top. The main assembly shows the rear swingarm (19) being connected to the rear subframe (11) via a shock absorber (16) and various linkages (12, 13, 14, 15, 18). The front subframe (10) is also shown. Numbered callouts (1-19) identify specific components such as bolts, washers, springs, and linkages. Red and blue lines trace the assembly path for different parts. The top-left inset shows the 'REAR' view of the subframe, and the top-right inset shows the 'FRONT' view. The bottom-left inset shows the 'FRONT' view of the swingarm assembly.

F-1189-2510

Wing Fold Stabilizer Assembly 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	256057	ASSY, WING FOLD STAB-23	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	13
2	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	2
3	1-654-010061-25	SCREW,HX CP 3/4-10UNCX10 GR5	2
4	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	26
5	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	9
6	120454	RING,RETAINING 1.25 HD	8
7	122917	SPRING COMPRESSION,4-1/2 MONO	2
8	141259	DECAL, LANDOLL, YELLOW	1
9	244513	PIN, HOOK 5-1/8" L	4
10	249976	PLATE, WING HOOK	2
11	250390	WING STABILIZER NC	1
12	251952	RD TUBE, SPACER 3-1/4 L	8
13	251953	WASHER, FOLD DOUBLE	4
14	251960	WASHER, DOUBLE POINTER	2
15	253572	PLATE, HOSE LOOP	1
16	256050	CYL, 1-1/2 STROKE, WING LOCK	1
17	256053	ROD, NYLATRON SPACER	2
18	256058	PLATE, FOLD INNER-23	2
19	256059	PLATE, FOLD CYL MT-23	2

Fold Stabilizer Assembly 7531-26'-35'

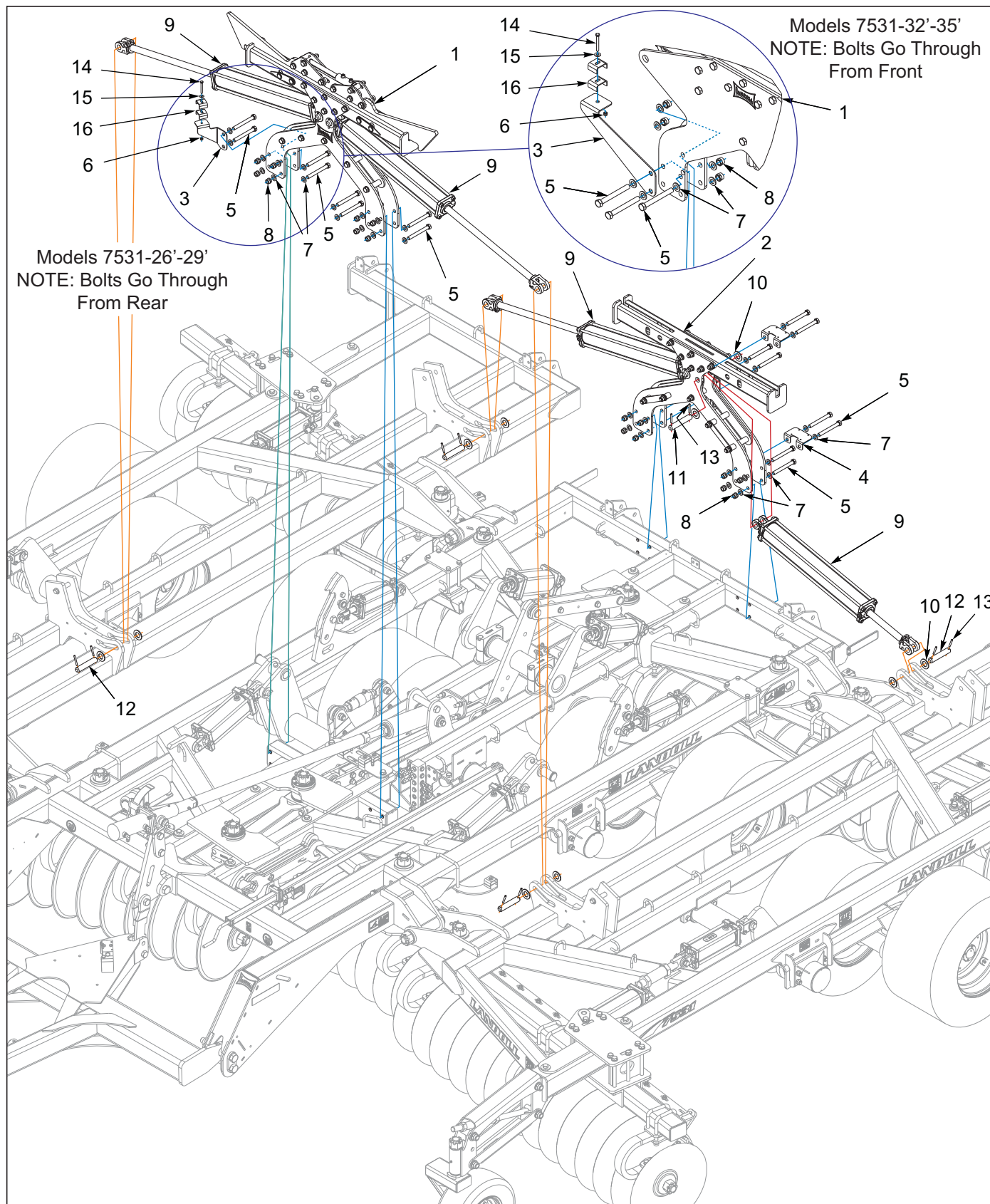


Figure 5-5: Fold Stabilizer Assembly 7531-26'-35'

Fold Stabilizer Assembly 7531-26'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	251950	ASSY, WING FOLD STAB FT NC	1
1	249970	ASSY, WING FOLD STAB FRONT	1
2	251951	ASSY, WING FOLD STAB RR NC	1
2	249971	ASSY, WING FOLD STAB REAR	1
3	253571	MOUNT, HOSE NC	1
3	211960	MOUNT, HOSE	1
4	253598	MOUNT, TAIL LIGHT	2
5	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	16
6	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
7	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	32
8	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
9	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-22)	4
10	116100	WASHER 1-1/4 NAR FL ZP/CD	16
11	170291	PIN, 1-1/4 X 7	4
12	246860	PIN, 1-1/4 X 6-1/2	4
13	1-647-010004240	PIN,SPRING,SLOTTED,5/16X2-1/2	16
14	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	1
15	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
16	2-181-010001	HOSE CLAMP	2

Wing Fold Stabilizer Assembly 7531-26'-29' Front

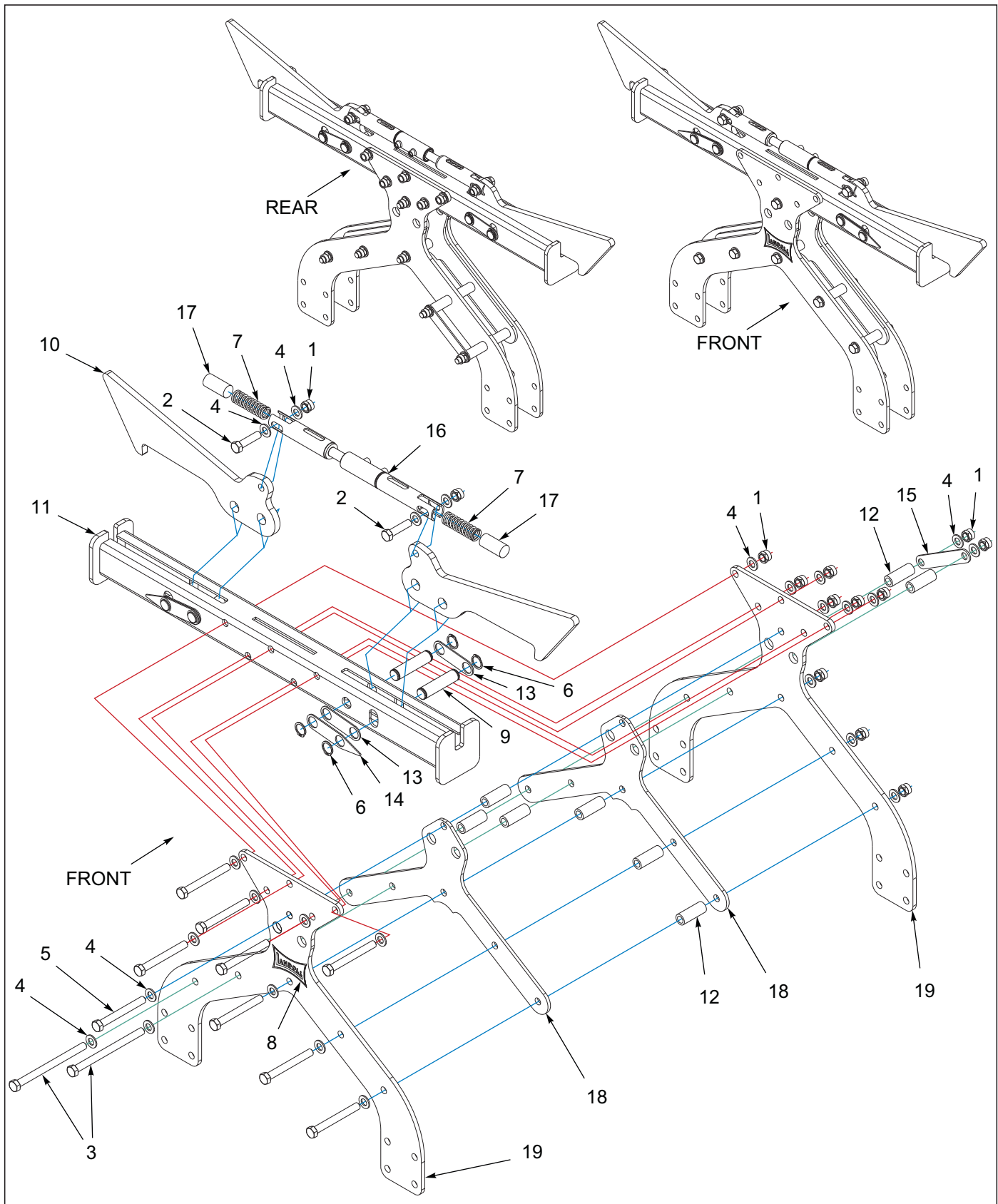


Figure 5-6: Wing Fold Stabilizer Assembly 7531-26'-29' Front

Wing Fold Stabilizer Assembly 7531-26'-29' Front

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	251950	ASSY, WING FOLD STAB FT NC	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	13
2	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	2
3	1-654-010061-25	SCREW,HX CP 3/4-10UNCX10 GR5	2
4	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	26
5	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	9
6	120454	RING,RETAINING 1.25 HD	8
7	122917	SPRING COMPRESSION,4-1/2 MONO	2
8	141259	DECAL, LANDOLL, YELLOW	1
9	244513	PIN, HOOK 5-1/8" L	4
10	249976	PLATE, WING HOOK	2
11	250390	WING STABILIZER NC	1
12	251952	RD TUBE, SPACER 3-1/4 L	8
13	251953	WASHER, FOLD DOUBLE	4
14	251960	WASHER, DOUBLE POINTER	2
15	253572	PLATE, HOSE LOOP	1
16	256050	CYL, 1-1/2 STROKE, WING LOCK	1
17	256053	ROD, NYLATRON SPACER	2
18	250389	PLATE, FOLD INNER	2
19	250388	PLATE, FOLD CYL MOUNT NC	2

Wing Fold Stabilizer Assembly 7531-26'-29' Rear

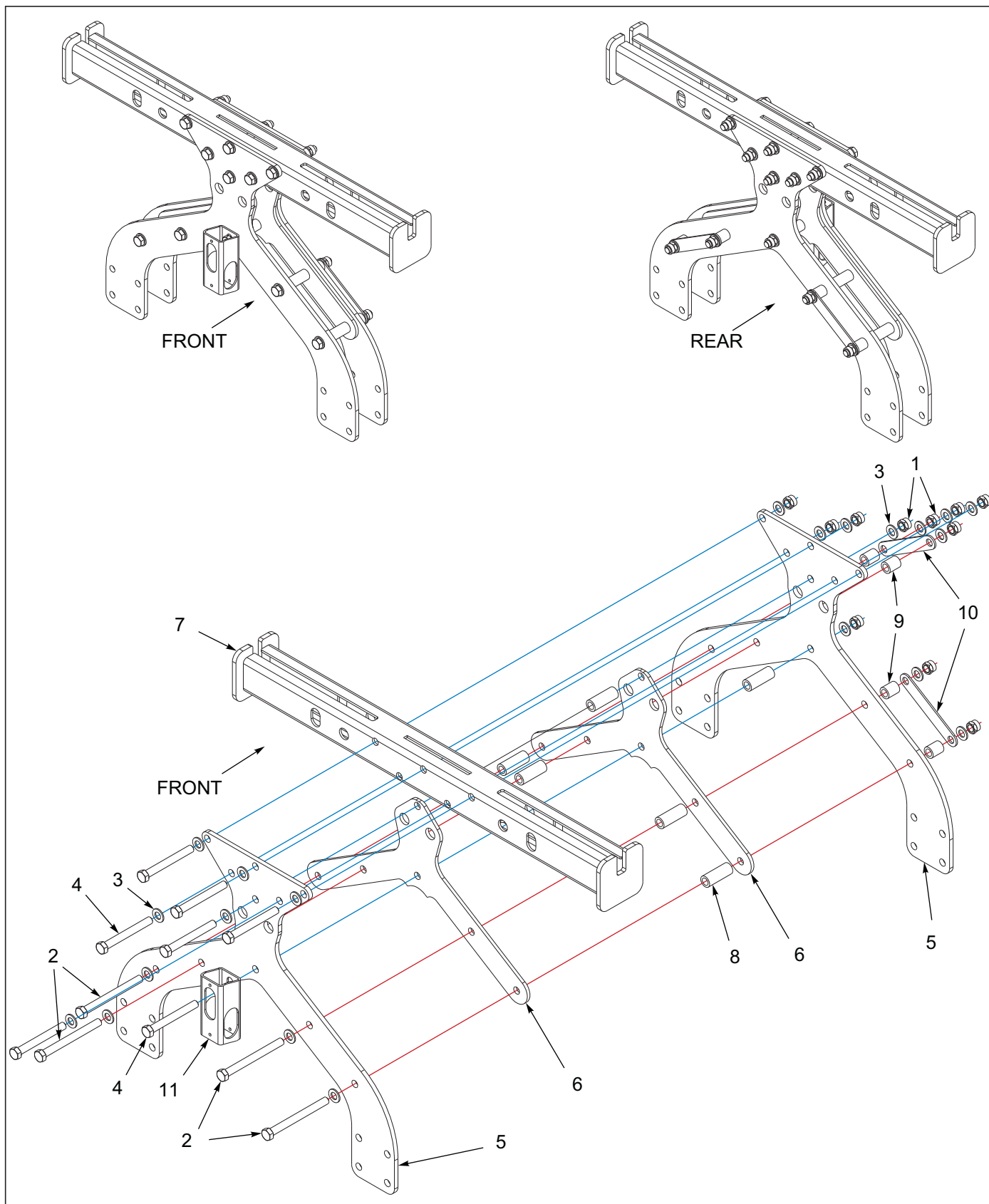


Figure 5-7: Wing Fold Stabilizer Assembly 7531-26'-29' Rear

Wing Fold Stabilizer Assembly 7531-26'-29' Rear

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	251951	ASSY, WING FOLD STAB RR NC	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	11
2	1-654-010061-21	SCREW,HX CP,3/4-10UNCX8	4
3	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	21
4	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	7
5	250388	PLATE, FOLD CYL MOUNT NC	2
6	250389	PLATE, FOLD INNER	2
7	250390	WING STABILIZER NC	1
8	251952	RD TUBE, SPACER 3-1/4 L	6
9	251999	RD TUBE, SPACER 1-1/2 L	4
10	253572	PLATE, HOSE LOOP	2
11	253597	MOUNT, SMV/MODULE	1

Wing Fold Stabilizer Assembly 7531-32'-35' Front

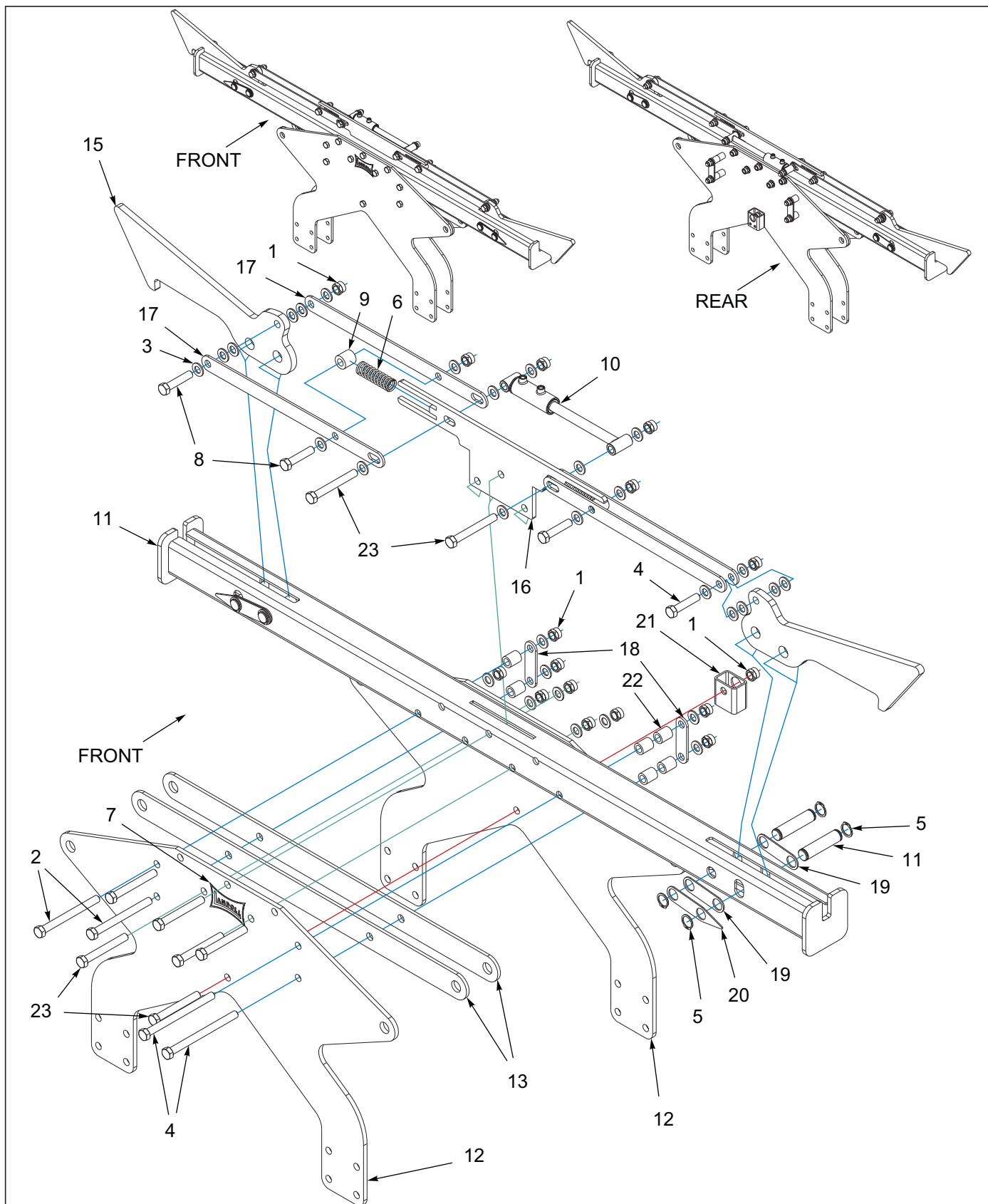


Figure 5-8: Wing Fold Stabilizer Assembly 7531-32'-35' Front

Wing Fold Stabilizer Assembly 7531-32'-35' Front

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	249970	ASSY, WING FOLD STAB FRONT	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
2	1-654-010061-21	SCREW,HX CP,3/4-10UNCX8	2
3	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	31
4	104436	SCREW,HX CP,3/4-10UNCX9-1/2G5	2
5	120454	RING,RETAINING 1.25 HD	8
6	122917	SPRING COMPRESSION,4-1/2 MONO	2
7	141259	DECAL, LANDOLL, YELLOW	1
8	141776	SCREWHXCP 3/4-10UNCX3-1/2GR5B	4
9	150299	BUSHING, CLAMP 1-1/2	2
10	230890	CYLINDER,1-1/2X1-1/2,3000PSI	1
11	244513	PIN, HOOK 5-1/8" L	4
12	249972	PLATE, FOLD CYL MOUNT WC	2
13	249973	PLATE, CYL MNT WC	2
14	249974	WING STABILIZER WC	1
15	249976	PLATE, WING HOOK	2
16	250218	PLATE, WING LOCK	1
17	250219	PLATE, HOOK LINK	4
18	250293	PLATE, HOSE CLAMP	2
19	251953	WASHER, FOLD DOUBLE	4
20	251960	WASHER, DOUBLE POINTER	2
21	251962	MOUNT, MANIFOLD	1
22	251999	RD TUBE, SPACER 1-1/2 L	6
23	W908409-4	SCREW 3/4-10X6 HEX HD CAP	8

Wing Fold Stabilizer Assembly 7531-32'-35' Rear

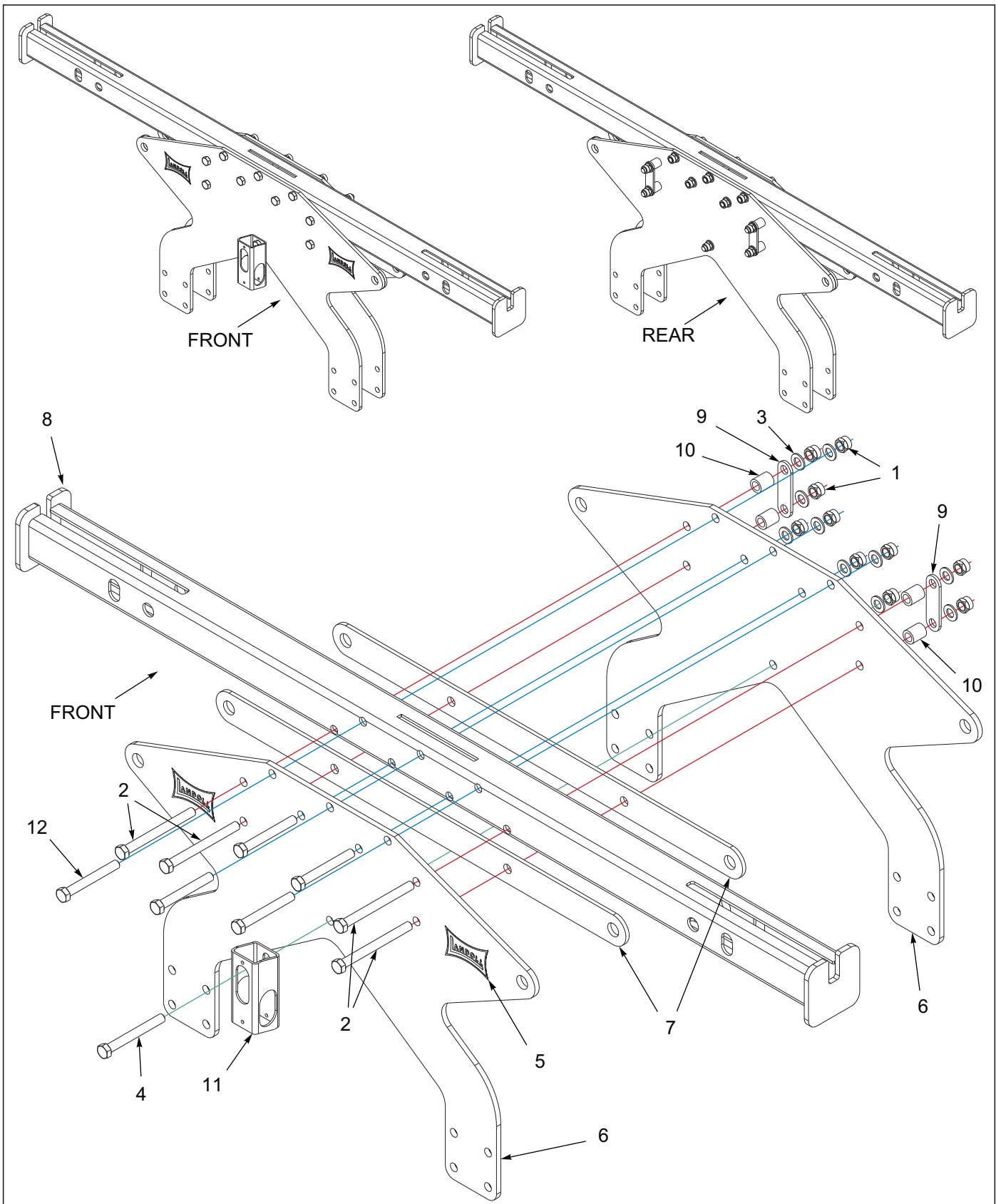


Figure 5-9: Wing Fold Stabilizer Assembly 7531-32'-35' Rear

Wing Fold Stabilizer Assembly 7531-32'-35' Rear

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	249971	ASSY, WING FOLD STAB REAR	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	10
2	1-654-010061-21	SCREW,HX CP,3/4-10UNCX8	4
3	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	10
4	100855	SCREW, HHCS,3/4-10X6-1/2 GR5	1
5	141259	DECAL, LANDOLL, YELLOW	2
6	249972	PLATE, FOLD CYL MOUNT WC	2
7	249973	PLATE, CYL MNT WC	2
8	249974	WING STABILIZER WC	1
9	250293	PLATE, HOSE CLAMP	2
10	251999	RD TUBE, SPACER 1-1/2 L	4
11	253597	MOUNT, SMV/MODULE	1
12	W908409-4	SCREW 3/4-10X6 HEX HD CAP	5

Hydraulic Assembly Fold 7531-23'

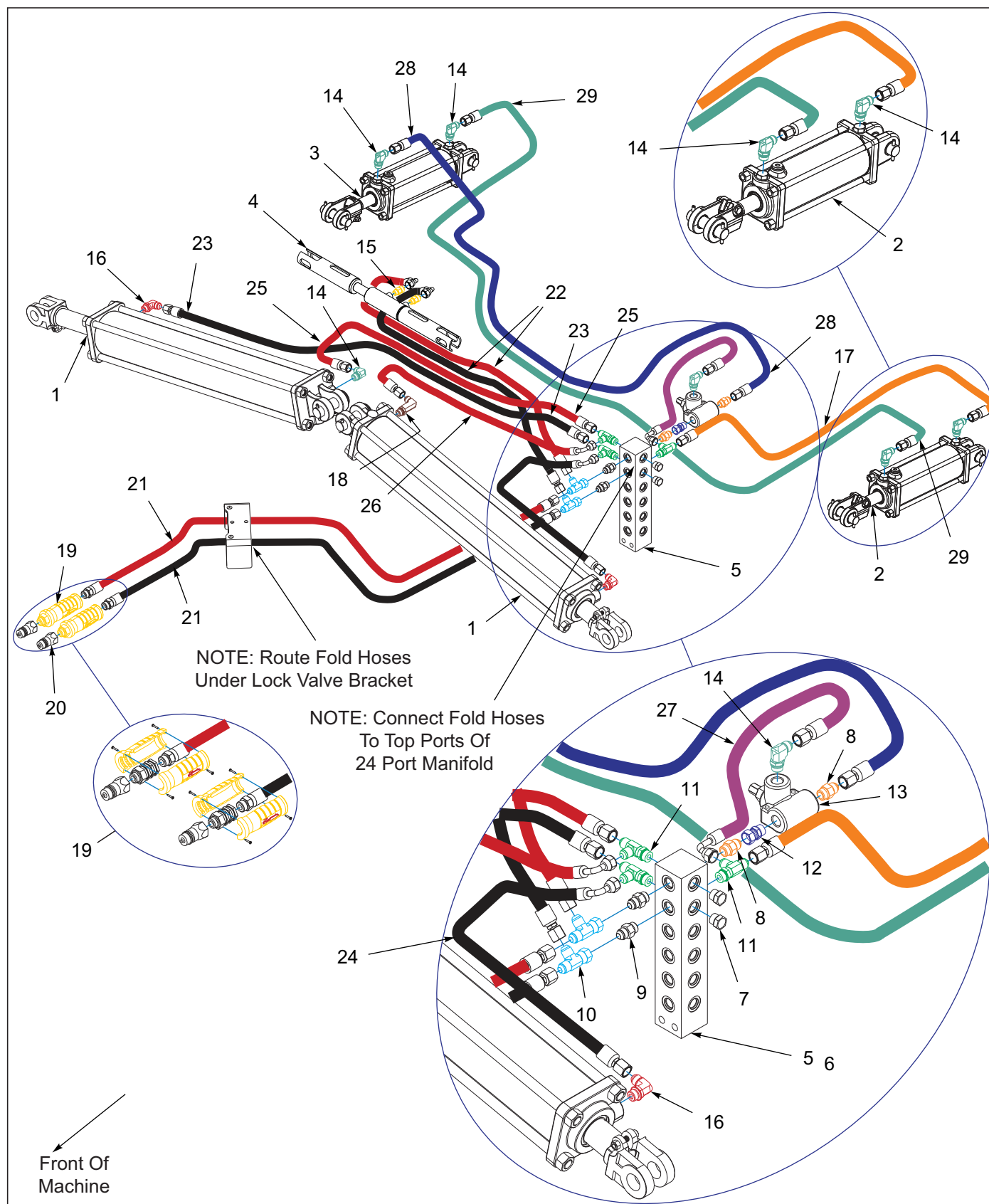


Figure 5-10: Hydraulic Assembly Fold 7531-23'

Hydraulic Assembly Fold 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	254306	CYLINDER, 4-1/2 X 30, 2" ROD (SEE PAGE 6-22)	4
2	247535	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGE 6-11)	1
3	247534	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGE 6-11)	1
4	256050	CYL, 1-1/2 STROKE, WING LOCK	12
5	250287	MANIFOLD, FRONT 7531-23 (SEE PAGE 5-37)	1
6	191923	MANIFOLD HYDRAULIC 24 PORT	1
7	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
8	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
9	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2
10	203102-8-8S	ADAPTER, TEE, 1/2 #8JICX#8JICSWV	2
11	203005-8-8S	ADAPTER, TEE, #8 O-RING-TUBE	3
12	102-1130	FTG, STR 8M ORING X 8F JIC SW	1
13	165287	VALVE, RELIEF, 1000PSI	1
14	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	6
15	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	2
16	141826	ELBOW 90 1/16 RES	2
17	71509000	HOSE ASM 3/8 X202	1
18	206209-8-8S	ADAPTER, 90° LONG, #8 O-RING-TUBE	1
19	251973	HOSE HANDLES, YELLOW, 1/2" SET	1
20	141828	COUPLER, MALE 3/4-16 O-RING	2
21	176997	HOSE 3/8 X 240, #8JIC X #8OR	2
22	123079	HOSE ASSY 3/8X62 #8STR-#8-90	2
23	116489	HOSE ASSY 3/8X64 #8 JIC SW	1
24	254960	HOSE ASSY, 3/8X86-8FJICX8F90	1
25	192068	HOSE ASM, 3/8 X 46	1
26	254959	HOSE ASSY, 3/8X52-8FJICX8F90	1
27	203422	HOSE ASSY 3/8X23 #8STR-#8-90	1
28	256070	HOSE ASSY, 3/8 X 240 #8STR JIC	1
29	141882	HOSE ASSY 3/8X206 #8 JIC SWIV	1

Hydraulic Assembly Fold 7531-26'-29' (Before S/N 75K2501921)

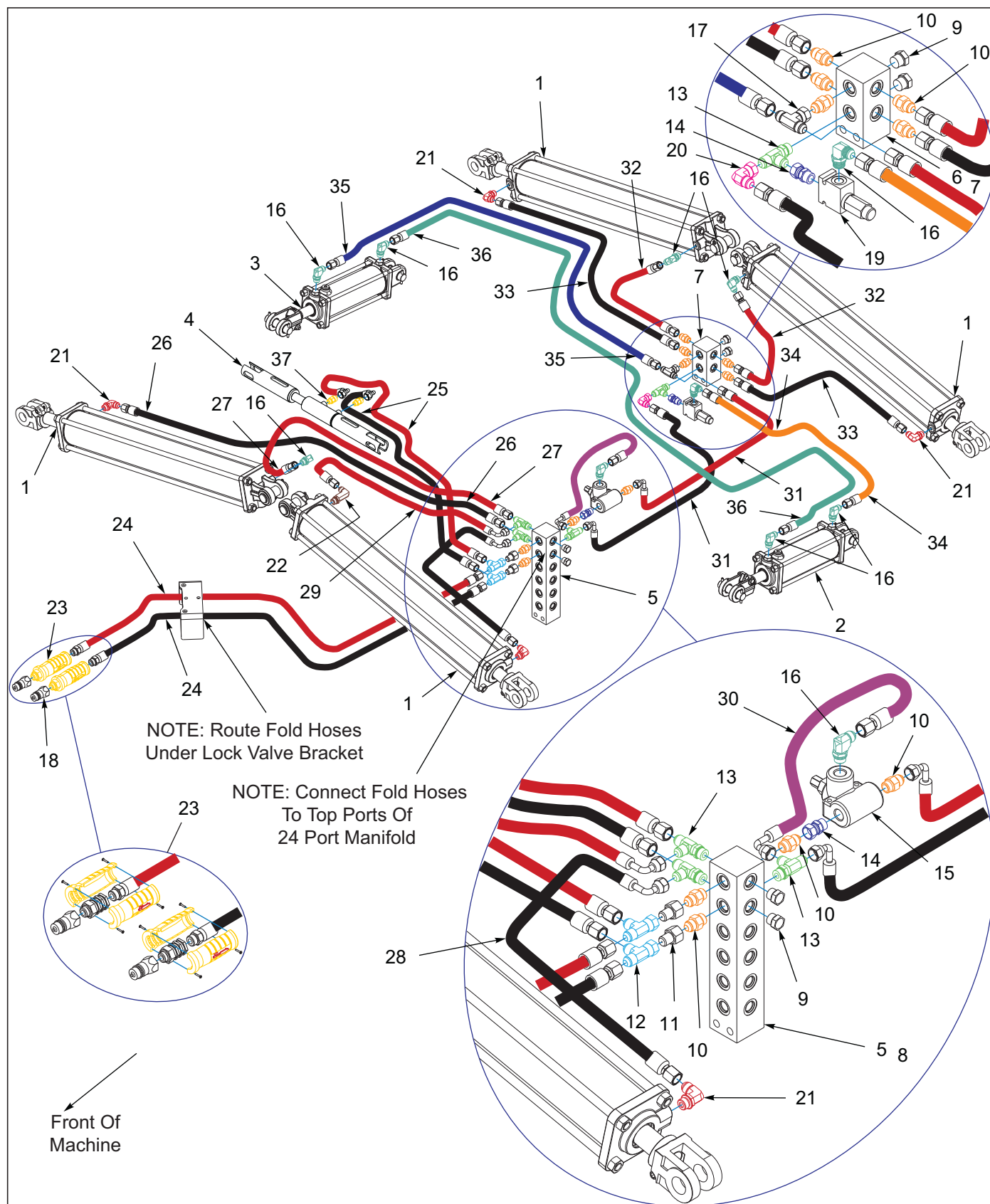


Figure 5-11: Hydraulic Assembly Fold 7531-26'-29' (Before S/N 75K2501921)

Hydraulic Assembly Fold 7531-26'-29' (Before S/N 75K2501921)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-22)	4
2	247535	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGE 6-11)	1
3	247534	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGE 6-9)	1
4	256050	CYL, 1-1/2 STROKE, WING LOCK	1
5	250288	MANIFOLD, FRONT 7531-26/29 (SEE PAGE 5-39)	1
6	250291	MANIFOLD, RR 7531-26/29 (SEE PAGE 5-41)	1
7	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
8	191923	MANIFOLD HYDRAULIC 24 PORT	1
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
10	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	7
11	127806	ADAPTER, HYD, -8JIC W/3/32 RESTR	2
12	203102-8-8S	ADAPTER, TEE, 1/2 #8JIC X #8JIC SWV	2
13	203005-8-8S	ADAPTER, TEE, #8 O-RING-TUBE	4
14	102-1130	FTG, STR 8M ORING X 8F JIC SW	1
15	165287	VALVE, RELIEF, 1000PSI	1
16	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	8
17	123109	ADAPTER, TEE, #8JIC FEM BR	1
18	141828	COUPLER, MALE 3/4-16 O-RING	2
19	193149	VALVE, RELIEF PILOT OP W/REV CK	1
20	2071-8-8S	ADAPTER 90 #8 FLR SWIVEL #8JIC	1
21	141826	ELBOW 90 1/16 RES	4
22	206209-8-8S	ADAPTER, 90° LONG, #8 O-RING-TUBE	1
23	251973	HOSE HANDLES, YELLOW, 1/2" SET	1
24	176997	HOSE 3/8 X 240, #8JIC X #8OR	2
25	123079	HOSE ASSY 3/8X62 #8STR-#8-90	2
26	116489	HOSE ASSY 3/8X64 #8 JIC SW	1
27	192068	HOSE ASM, 3/8 X 46	1
28	254960	HOSE ASSY, 3/8X86-8FJICX8F90	1
29	254959	HOSE ASSY, 3/8X52-8FJICX8F90	1
30	203422	HOSE ASSY 3/8X23 #8STR-#8-90	1
31	130949	HOSE, 3/8X128, JIC #8-#8X90	2
32	192487	HOSE ASM, 3/8 X 28	2
33	147584	HOSE ASSY 3/8X40 #8 JIC SWIV	2
34	208479	HOSE ASSY 3/8X84, 8FJS ENDS	1
35	166171	HOSE ASSY 3/8X114 #8JIC SWIV	1
36	141882	HOSE ASSY 3/8X206 #8 JIC SWIV	1
37	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	2

Hydraulic Assembly Fold 7531-26'-29' (After S/N 75K2501921)

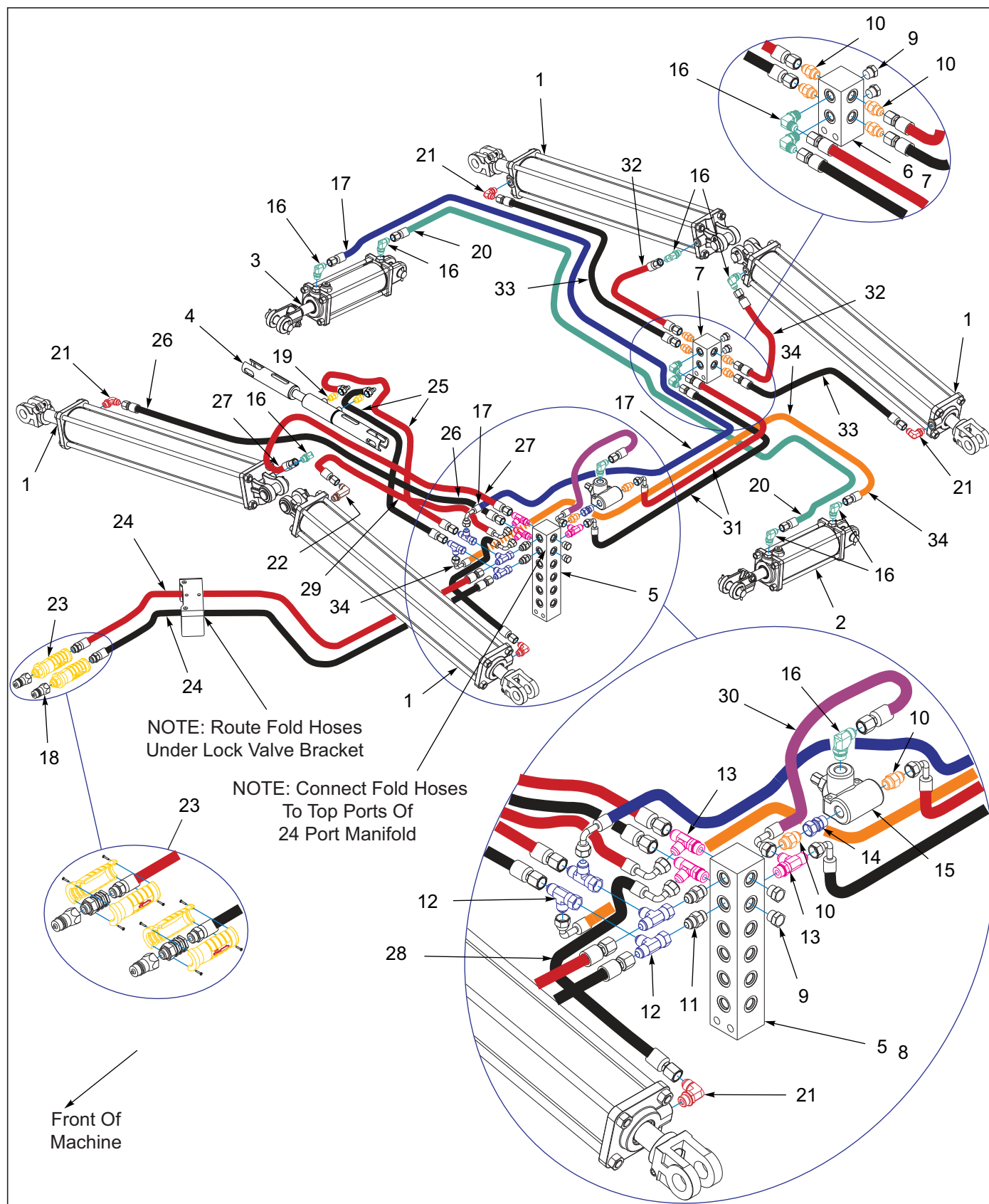


Figure 5-12: Hydraulic Assembly Fold 7531-26'-29' (After S/N 75K2501921)

Hydraulic Assembly Fold 7531-26'-29' (After S/N 75K2501921)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-22)	4
2	247535	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGE 6-11)	1
3	247534	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGE 6-9)	1
4	256050	CYL, 1-1/2 STROKE, WING LOCK	1
5	250288	MANIFOLD, FRONT 7531-26/29 (SEE PAGE 5-40)	1
6	250291	MANIFOLD, RR 7531-26/29 (SEE PAGE 5-42)	1
7	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
8	191923	MANIFOLD HYDRAULIC 24 PORT	1
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
10	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	7
11	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2
12	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	4
13	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	3
14	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
15	165287	VALVE, RELIEF, 1000PSI	1
16	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	8
17	153839	HOSE ASSY 3/8X249 #8STR-#8-90	1
18	141828	COUPLER,MALE 3/4-16 O-RING	2
19	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	2
20	141882	HOSE ASSY 3/8X206 #8 JIC SWIV	1
21	141826	ELBOW 90 1/16 RES	4
22	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	1
23	251973	HOSE HANDLES, YELLOW, 1/2" SET	1
24	176997	HOSE 3/8 X 240, #8JIC X #8OR	2
25	123079	HOSE ASSY 3/8X62 #8STR-#8-90	2
26	116489	HOSE ASSY 3/8X64 #8 JIC SW	1
27	192068	HOSE ASM, 3/8 X 46	1
28	254960	HOSE ASSY, 3/8X86-8FJICX8F90	1
29	254959	HOSE ASSY, 3/8X52-8FJICX8F90	1
30	203422	HOSE ASSY 3/8X23 #8STR-#8-90	1
31	130949	HOSE,3/8X128,JIC #8-#8X90	2
32	192487	HOSE ASM, 3/8 X 28	2
33	147584	HOSE ASSY 3/8X40 #8 JIC SWIV	2
34	256102	HOSE ASSY, 3/8X205-8FJIC-8F90	1

Hydraulic Assembly Fold 7531-32'-35' (Before S/N 75K2501921)

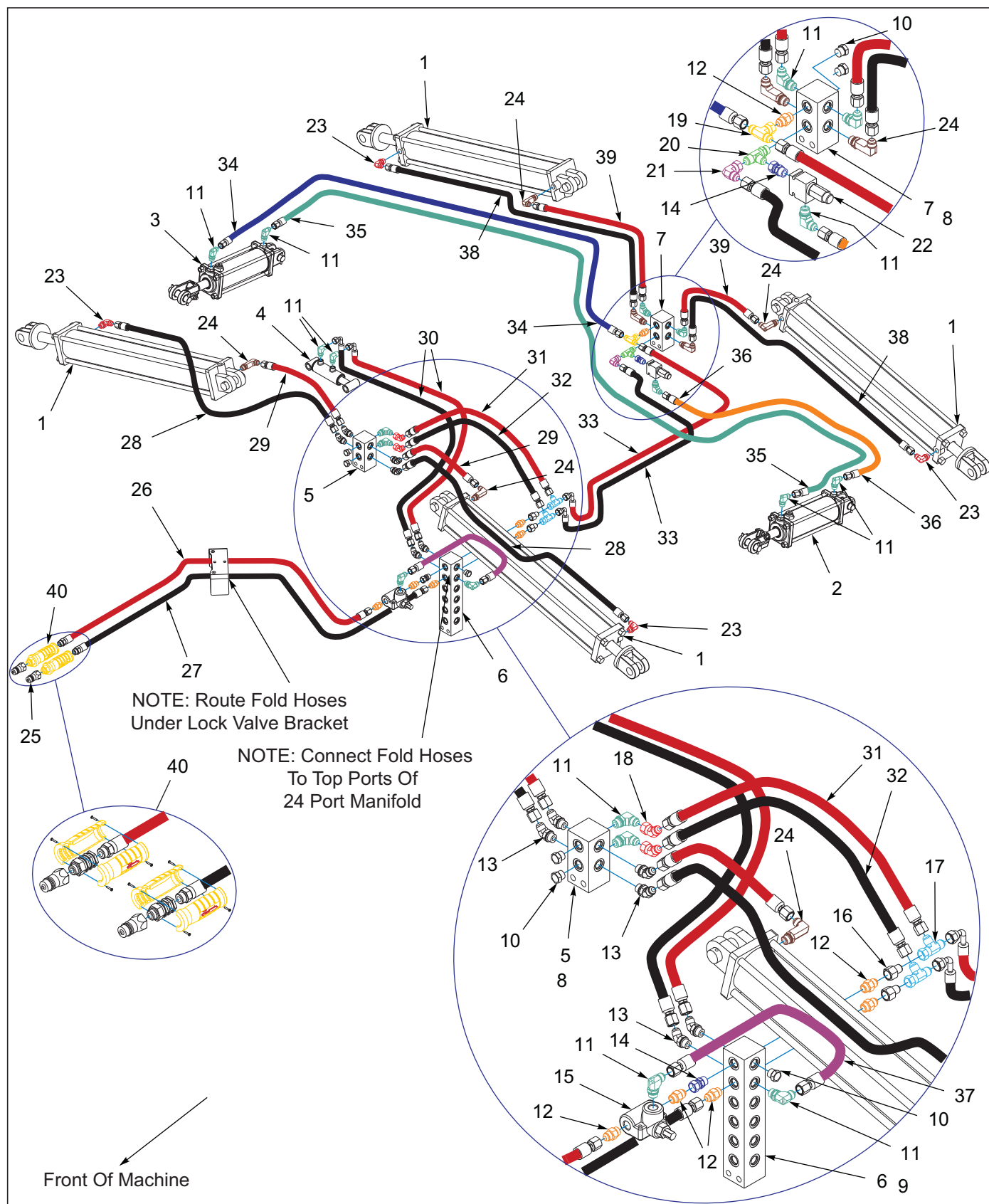


Figure 5-13: Hydraulic Assembly Fold 7531-32'-35' (Before S/N 75K2501921)

Hydraulic Assembly Fold 7531-32'-35' (Before S/N 75K2501921)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-22)	4
2	247535	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGE 6-15)	1
3	247534	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGE 6-9)	1
4	230890	CYLINDER, 1-1/2 X 1-1/2, 3000 PSI (SEE PAGE 6-26)	1
5	250290	MANIFOLD, FT 7531-32/35 (SEE PAGE 5-45)	1
6	250289	MANIFOLD, FRONT 7531-32/35 (SEE PAGE 5-43)	1
7	250292	MANIFOLD, RR 7531-32/35 (SEE PAGE 5-47)	1
8	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	2
9	191923	MANIFOLD HYDRAULIC 24 PORT	1
10	1-007-010025	PLUG, 3/4-16 O-RING BOSS	5
11	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	113
12	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	6
13	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	6
14	102-1130	FTG, STR 8M ORING X 8F JIC SW	2
15	165287	VALVE, RELIEF, 1000 PSI	1
16	127806	ADAPTER, HYD, -8 JIC W/3/32 RESTR	2
17	203102-8-8S	ADAPTER, TEE, 1/2 #8 JIC X #8 JIC SWV	2
18	121031	FITTING, 45 EL #8 M X #8 F 37 SWVL	2
19	123109	ADAPTER, TEE, #8 JIC FEM BR	1
20	203005-8-8S	ADAPTER, TEE, #8 O-RING-TUBE	1
21	2071-8-8S	ADAPTER 90 #8 FLR SWIVEL #8 JIC	1
22	193149	VALVE, RELIEF PILOT OP W/REV CK	1
23	141826	ELBOW 90 1/16 RES	4
24	206209-8-8S	ADAPTER, 90 LONG, #8 O-RING-TUBE	6
25	141828	COUPLER, MALE 3/4-16 O-RING	2
26	202902	HOSE ASSY, 3/8 X 235, #8 FJSX #8 MOR	1
27	253567	HOSE ASSY, 3/8 X 74-8 FJIC-8 F90	1
28	116432	HOSE ASSY, 3/8 X 60 #8 JIC SWV	4
29	5000858	HOSE ASSY, 3/8 X 25, #8 JIC SWVL	2
30	163051	HOSE ASSY, 3/8 X 40 #8 STR-#8-90	2
31	71508985	HOSE ASSY .38 X 30	1
32	147123	HOSE ASSY, 3/8 X 31 #8 JIC SWV	1
33	253568	HOSE ASSY, 3/8 X 140-8 FJIC-8 F90	2
34	116492	HOSE ASSY 3/8 X 128 #8 JIC SW	1
35	167556	HOSE ASSY 3/8 X 232 #8 JIC SWIV	1
36	156945	HOSE ASSY 3/8 X 100 #8 JIC SWIV	1
37	71508954	HOSE ASSY .38 X 22 IN	1
38	208813	HOSE ASSY, 3/8 X 68, -8 FJX, -8 FJX	2
39	153842	HOSE ASSY 3/8 X 33 #8 JIC SWIV	2
40	251973	HOSE HANDLES, YELLOW, 1/2" SET	1

Hydraulic Assembly Fold 7531-32'-35' (After S/N 75K2501921)

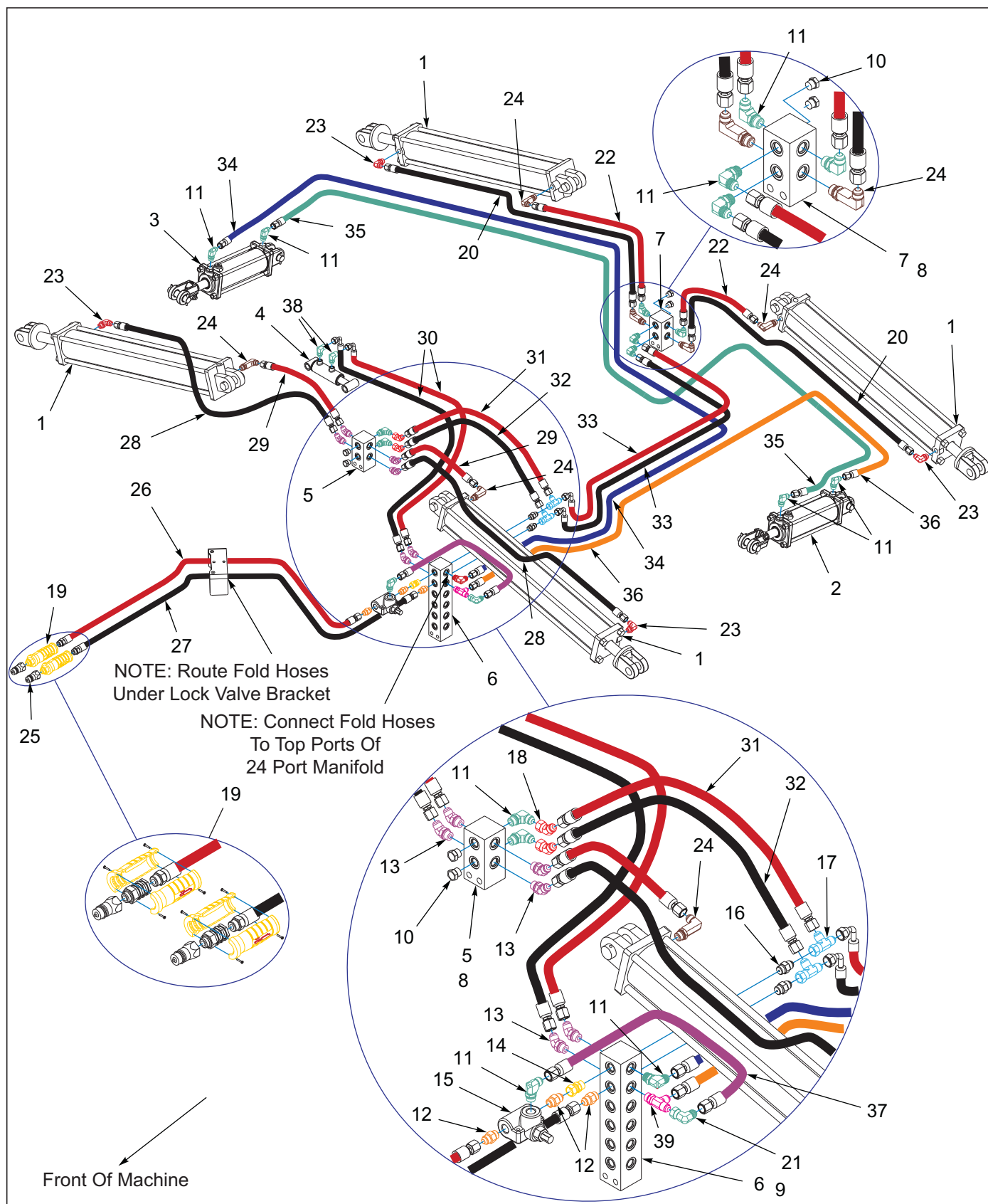


Figure 5-14: Hydraulic Assembly Fold 7531-32'-35' (After S/N 75K2501921)

Hydraulic Assembly Fold 7531-32'-35' (After S/N 75K2501921)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140472	CYLINDER, 4 X 30, 1-1/2 ROD (SEE PAGE 6-22)	4
2	247535	CYLINDER, 3-1/2 X 8, REPHASE (SEE PAGE 6-15)	1
3	247534	CYLINDER, 3-1/4 X 8, REPHASE (SEE PAGE 6-9)	1
4	230890	CYLINDER, 1-1/2 X 1-1/2, 3000 PSI (SEE PAGE 6-26)	1
5	250290	MANIFOLD, FT 7531-32/35 (SEE PAGE 5-45)	1
6	250289	MANIFOLD, FRONT 7531-32/35 (SEE PAGE 5-44)	1
7	250292	MANIFOLD, RR 7531-32/35 (SEE PAGE 5-48)	1
8	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	2
9	191923	MANIFOLD HYDRAULIC 24 PORT	1
10	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
11	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	12
12	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	3
13	2061-8-8S	ADAPTER, 45°, #8 O-RING-TUBE	6
14	102-1130	FTG, STR 8M ORING X 8F JIC SW	1
15	165287	VALVE, RELIEF, 1000 PSI	1
16	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2
17	203102-8-8S	ADAPTER, TEE, 1/2 #8 JIC X #8 JIC SWV	2
18	121031	FITTING, 45° EL #8M X #8F 37SWVL	2
19	251973	HOSE HANDLES, YELLOW, 1/2" SET	1
20	208813	HOSE ASSY, 3/8X68, -8FJX, -8FJX	2
21	2071-8-8S	ADAPTER 90° #8 FLR SWIVEL #8 JIC	1
22	153842	HOSE ASSY 3/8X33 #8 JIC SWIV	2
23	141826	ELBOW 90 1/16 RES	4
24	206209-8-8S	ADAPTER, 90° LONG, #8 O-RING-TUBE	6
25	141828	COUPLER, MALE 3/4-16 O-RING	2
26	202902	HOSE ASSY, 3/8X235, #8 FJSX #8 MOR	1
27	253569	HOSE ASSY, 3/8X238 #8 JICX #8 OR	1
28	116432	HOSE ASSY, 3/8X60 #8 JIC SWV	2
29	5000858	HOSE ASSY, 3/8 X 25, #8 JIC SWVL	2
30	163051	HOSE ASSY, 3/8X40 #8 STR-#8-90	2
31	71508985	HOSE ASSY .38 X 30	1
32	147123	HOSE ASSY, 3/8X31 #8 JIC SWV	1
33	253568	HOSE ASSY, 3/8X140-8FJIC-8F90	2
34	116437	HOSE ASSY, 3/8X267 #8 JIC SW	1
35	167556	HOSE ASSY 3/8X232 #8 JIC SWIV	1
36	210266	HOSE ASSY, 3/8, #8 JIC SWIVEL X224	1
37	71508954	HOSE ASSY .38X22IN	1
38	2062-6-8S	ADAPTER, 90°, #6 O-RING-#8 JIC	2
39	203005-8-8S	ADAPTER, TEE, #8 O-RING-TUBE	1

Hydraulic Assembly Gang 7531-23'

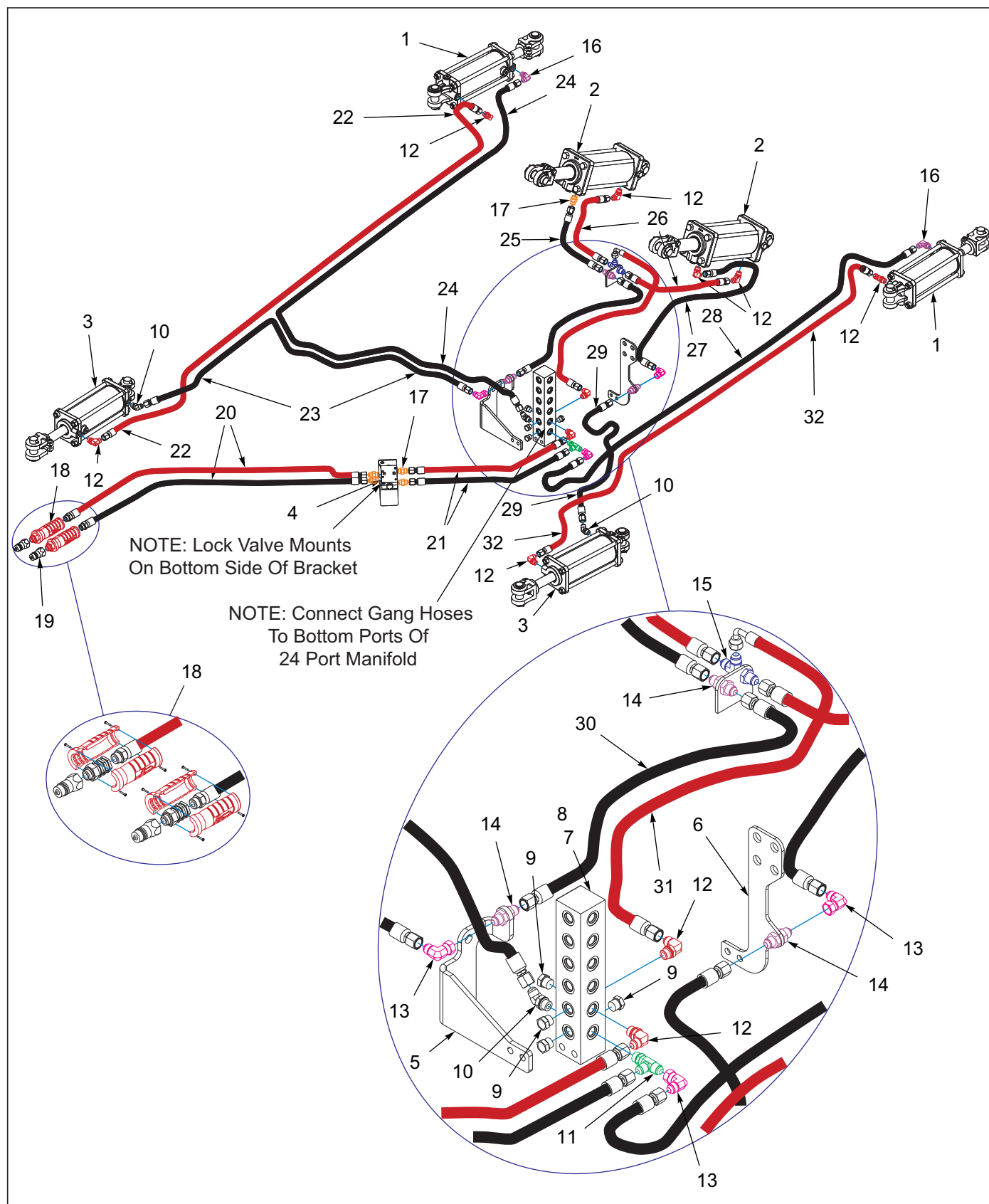


Figure 5-15: Hydraulic Assembly Gang 7531-23'

Hydraulic Assembly Gang 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	254277	CYL,3-3/4 X 8,REPHASE,1.25 PI (SEE PAGE 6-8)	2
2	247538	CYLINDER, 4-1/2 X 8, REPHASE (SEE PAGE 6-5)	2
3	254278	CYL, 4 X 8, REPHASE, 1.25 PIN (SEE PAGE 6-7)	2
4	124696	VALVE,CHK DBL PILOT O-RING	1
5	253594	PLATE, MANIFOLD/BULKHEAD	1
6	253570	MOUNT, BULKHEAD HOSES	1
7	250288	MANIFOLD, FRONT 7531-26/29 (SEE PAGE 5-39)	1
8	191923	MANIFOLD HYDRAULIC 24 PORT	1
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
10	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	3
11	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
12	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	9
13	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3
14	102-0322	37 FLARE BULKHEAD/37 FLARE	3
15	1P292	08MJ MALE BULKHEAD RUN TEE	1
16	141826	ELBOW 90 1/16 RES	2
17	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	5
18	251975	HOSE HANDLES, RED, 1/2" SET	1
19	141828	COUPLER,MALE 3/4-16 O-RING	2
20	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
21	195647	HOSE ASSY, 3/8X93 #8 JIC SWIV	2
22	153620	HOSE ASSY 3/8X140 #8 JIC SWIV	2
23	159569	HOSE ASSY 3/8X161,#8JIC SWVL	1
24	116437	HOSE ASSY, 3/8X267 #8 JIC SW	1
25	5000858	HOSE ASSY, 3/8 X 25,#8JIC SWVL	1
26	153842	HOSE ASSY 3/8X33 #8 JIC SWIV	2
27	116491	HOSE ASSY 3/8X96 #8 JIC SW	1
28	210266	HOSE ASSY,3/8,#8JIC SWIVELX224	1
29	1422176	HOSE ASSY 3/8X116 #8 JIC SWIV	1
30	153843	HOSE ASSY 3/8X67 #8 JIC SWIV	1
31	253567	HOSE ASSY, 3/8X74-8FJIC-8F90	1
32	137599	HOSE ASSY 3/8X126.25 #8JIC SWV	1

Hydraulic Assembly Gang 7531-26'-29'

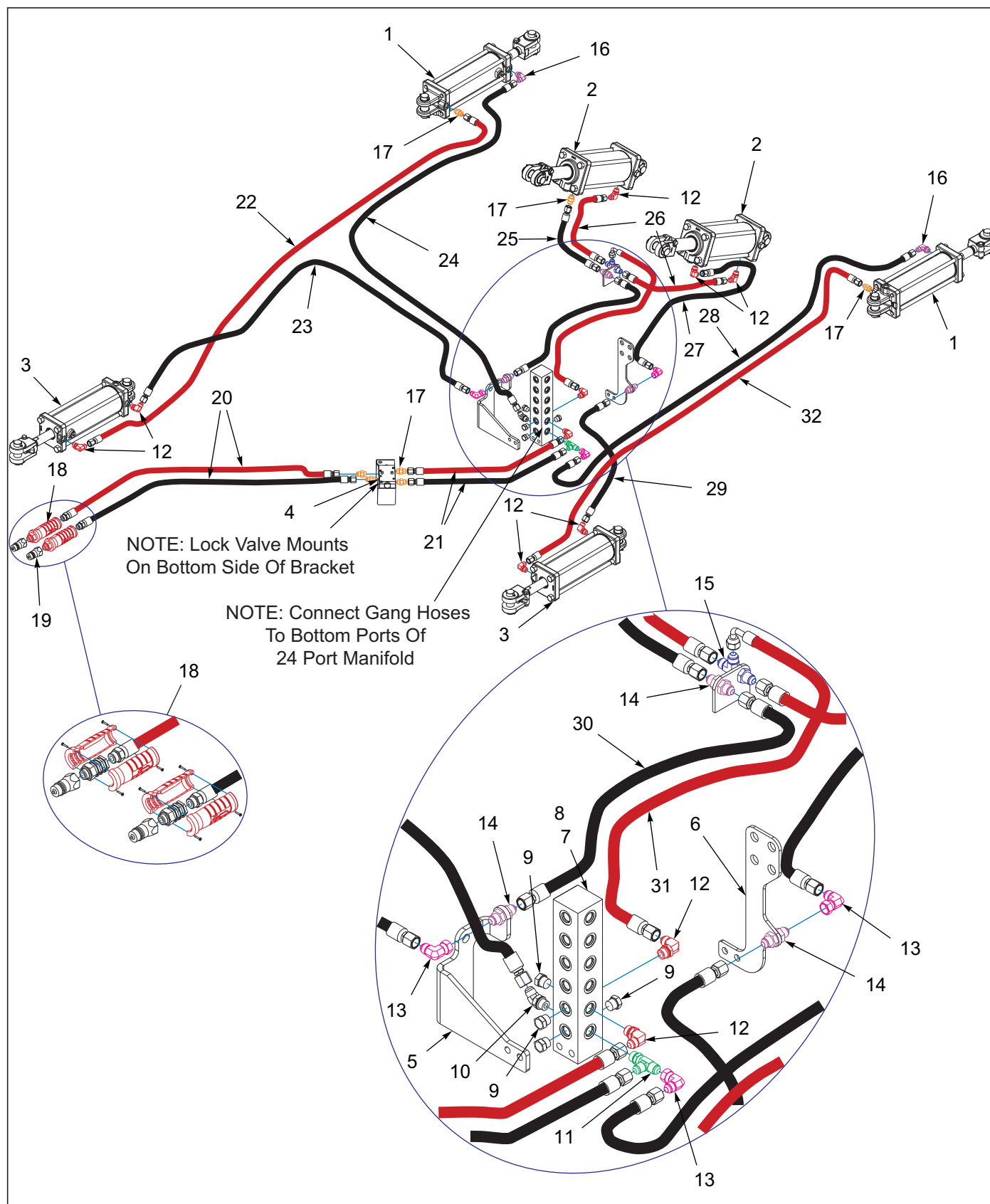


Figure 5-16: Hydraulic Assembly Gang 7531-26'-29'

Hydraulic Assembly Gang 7531-26'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	254277	CYL,3-3/4 X 8,REPHASE,1.25 PIN (7531-26')	2
1	247548	CYL,3-3/4X10, REPHASE 1.25 PIN (7531-29')	2
2	247538	CYLINDER, 4-1/2 X 8, REPHASE (7531-26')	2
2	247550	CYLINDER, 4-1/2 X 10, REPHASE (7531-29')	2
3	254278	CYL, 4 X 8, REPHASE, 1.25 PIN (7531-26')	2
3	247549	CYL, 4 X 10, REPHASE 1.25 PIN (7531-29')	2
4	124696	VALVE,CHK DBL PILOT O-RING	1
5	253594	PLATE, MANIFOLD/BULKHEAD	1
6	253570	MOUNT, BULKHEAD HOSES	1
7	250288	MANIFOLD, FRONT 7531-26/29 (INCLUDES ITEMS 8-13) (SEE PAGE 5-39)	1
8	191923	MANIFOLD HYDRAULIC 24 PORT	1
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	4
10	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	1
11	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
12	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	9
13	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3
14	102-0322	37 FLARE BULKHEAD/37 FLARE	3
15	1P292	08MJ MALE BULKHEAD RUN TEE	1
16	141826	ELBOW 90 1/16 RES	2
17	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	7
18	251975	HOSE HANDLES, RED, 1/2" SET	1
19	141828	COUPLER,MALE 3/4-16 O-RING	2
20	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
21	195647	HOSE ASSY, 3/8X93 #8 JIC SWIV	2
22	159569	HOSE ASSY 3/8X161,#8JIC SWVL (7531-26')	2
22	122911	HOSE ASSY 3/8X168,#8JIC SWVL (7531-29')	2
23	194115	HOSE ASM,3/8 X 154,#8FJS (7531-26')	2
23	211345	HOSE ASSY,3/8X170,8FJS ENDS (7531-29')	1
24	203595	HOSE ASSY 3/8X280,-8FJX,-8FJX (7531-26')	2
24	210267	HOSE ASSY,3/8,#8JIC SWIVELX305 (7531-29')	1
25	5000858	HOSE ASSY, 3/8 X 25,#8JIC SWVL	1
26	153842	HOSE ASSY 3/8X33 #8 JIC SWIV	2
27	116491	HOSE ASSY 3/8X96 #8 JIC SW	1
28	210266	HOSE ASSY,3/8,#8JIC SWIVELX224 (7531-26')	2
28	164307	HOSE ASSY,3/8X237 #8JIC SWIV (7531-29')	1
29	71509382	HOSE ASSY .38 X 112 (7531-26')	2
29	137599	HOSE ASSY 3/8X126.25 #8JIC SWV (7531-29')	1
30	153843	HOSE ASSY 3/8X67 #8 JIC SWIV	1
31	253567	HOSE ASSY, 3/8X74-8FJIC-8F90	1
32	194115	HOSE ASM,3/8 X 154,#8FJS (7531-26')	2
32	117260	HOSE ASSY 3/8X156 #8JIC (7531-29')	1

Hydraulic Assembly Gang 7531-32'-35'

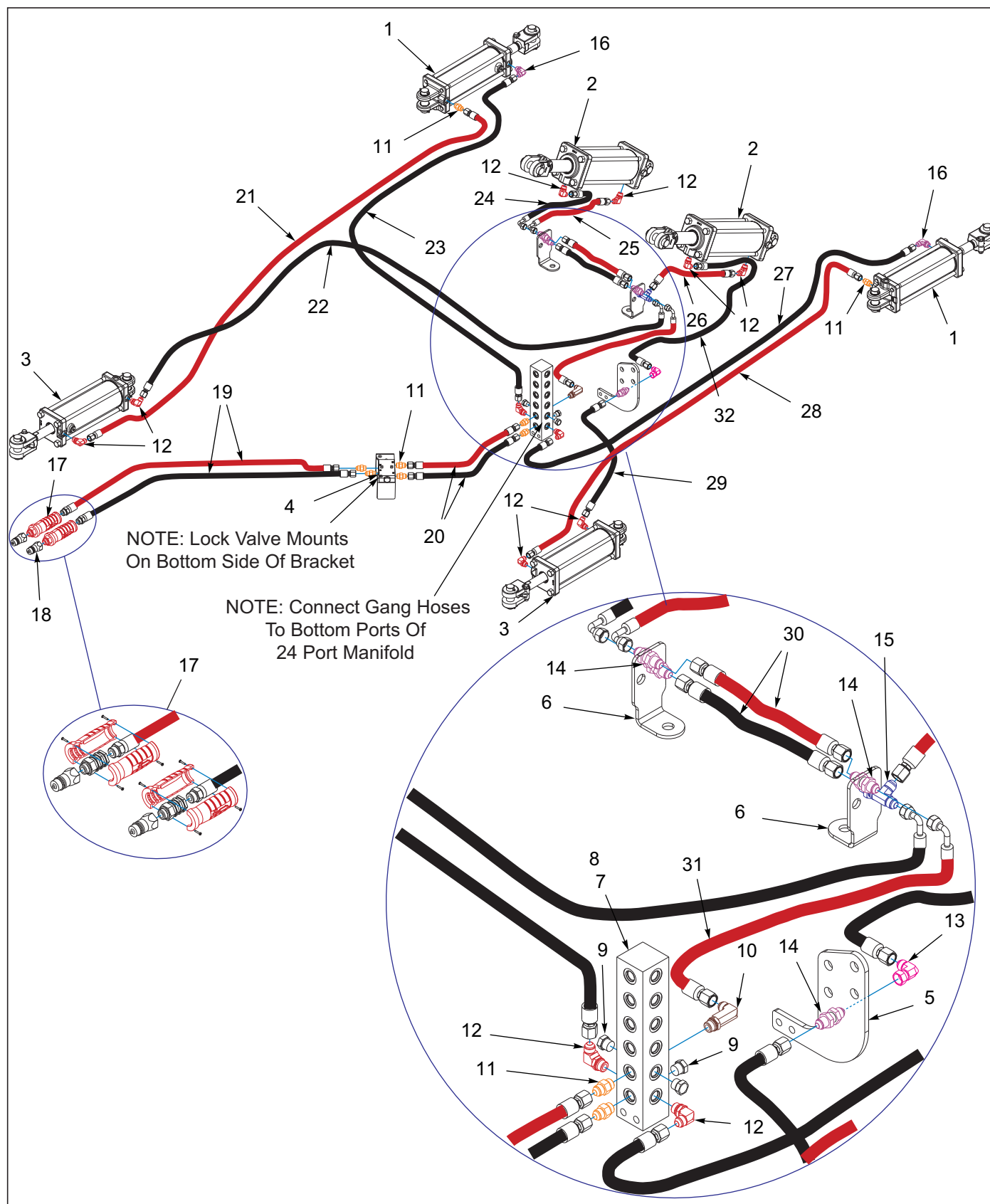


Figure 5-17: Hydraulic Assembly Gang 7531-32'-35'

Hydraulic Assembly Gang 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	247548	CYL,3-3/4X10, REPHASE 1.25 PIN	2
2	247550	CYLINDER, 4-1/2 X 10, REPHASE	2
3	247549	CYL, 4 X 10, REPHASE 1.25 PIN	2
4	124696	VALVE,CHK DBL PILOT O-RING	1
5	255064	MOUNT, BULKHEAD HOSES W/C	1
6	251963	PLATE, BULKHEAD GANGS	2
7	250288	MANIFOLD, FRONT 7531-26/29 (INCLUDES ITEMS 8-12) (SEE PAGE 5-39)	1
8	191923	MANIFOLD HYDRAULIC 24 PORT	1
9	1-007-010025	PLUG, 3/4-16 O-RING BOSS	3
10	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	1
11	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	8
12	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	8
13	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	1
14	102-0322	37 FLARE BULKHEAD/37 FLARE	3
15	1P292	08MJ MALE BULKHEAD RUN TEE	1
16	141826	ELBOW 90 1/16 RES	2
17	251975	HOSE HANDLES, RED, 1/2" SET	1
18	141828	COUPLER,MALE 3/4-16 O-RING	2
19	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
20	208479	HOSE ASSY 3/8X84,8FJS ENDS	2
21	194116	HOSE ASM,3/8 X 172,#8FJS	2
22	256068	HOSE ASSY, 3/8X280-8FJIC-8F90	1
23	201313	HOSE ASSY 3/8X335,-8FJX,-8FJX	1
24	123062	HOSE ASSY 3/8X27 #8STR-#8-90	1
25	163781	HOSE ASSY 3/8X17 #8STR -#8-90	1
26	153841	HOSE ASSY 3/8X18 #8 JIC SWIV	1
27	71510821	HOSE, .38 X 244 IN.	1
28	194115	HOSE ASM,3/8 X 154,#8FJS	1
29	141881	HOSE ASSY 3/8X136 #8 JIC SWIV	1
30	137601	HOSE ASSY, 3/8X20, #8JIC SWVL	2
31	130948	HOSE,3/8X78,JIC #8-#8X90	1
32	139213	HOSE ASSY 3/8X105 #8JIC SWIVEL	1

Hydraulic Assembly Leveler

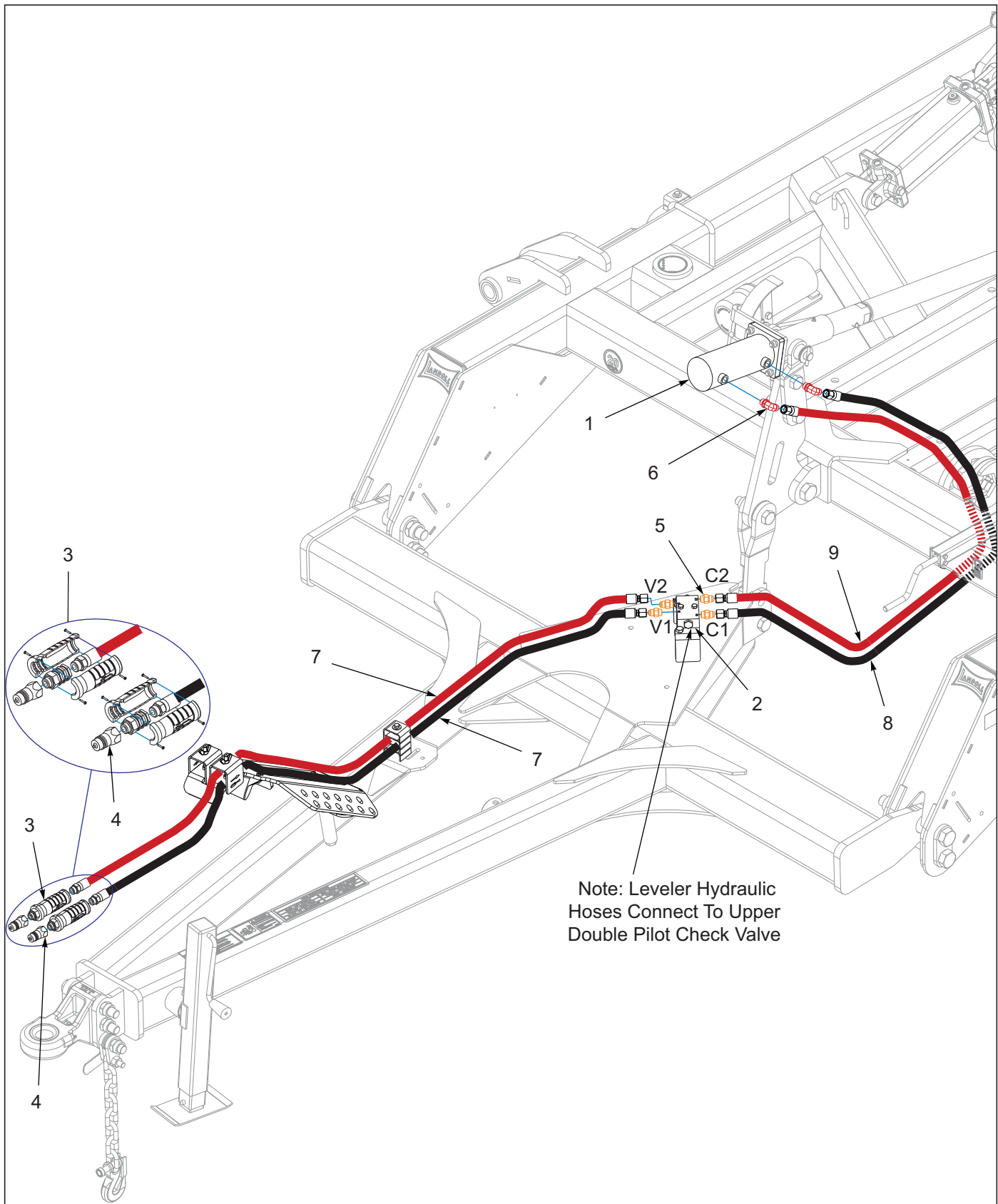


Figure 5-18: Hydraulic Assembly Leveler

Hydraulic Assembly Leveler

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	140631	CYLINDER 3-1/2X6 (SEE PAGE 6-24)	1
2	124696	VALVE,CHK DBL PILOT O-RING	1
3	251974	HOSE HANDLES, BLACK, 1/2" SET	1
4	141828	COUPLER,MALE 3/4-16 O-RING	2
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	4
6	141827	ELBOW 90 3/4ORB3/4JIC 1/32REST	2
7	141860	HOSE ASSY 3/8X150 #8JICX8OR	2
8	147583	HOSE ASSY 3/8X72 #8 JIC SWIV	1
9	116490	HOSE ASSY 3/8X78 #8 JIC SW	1

Manifold Assembly Front 7531-23'

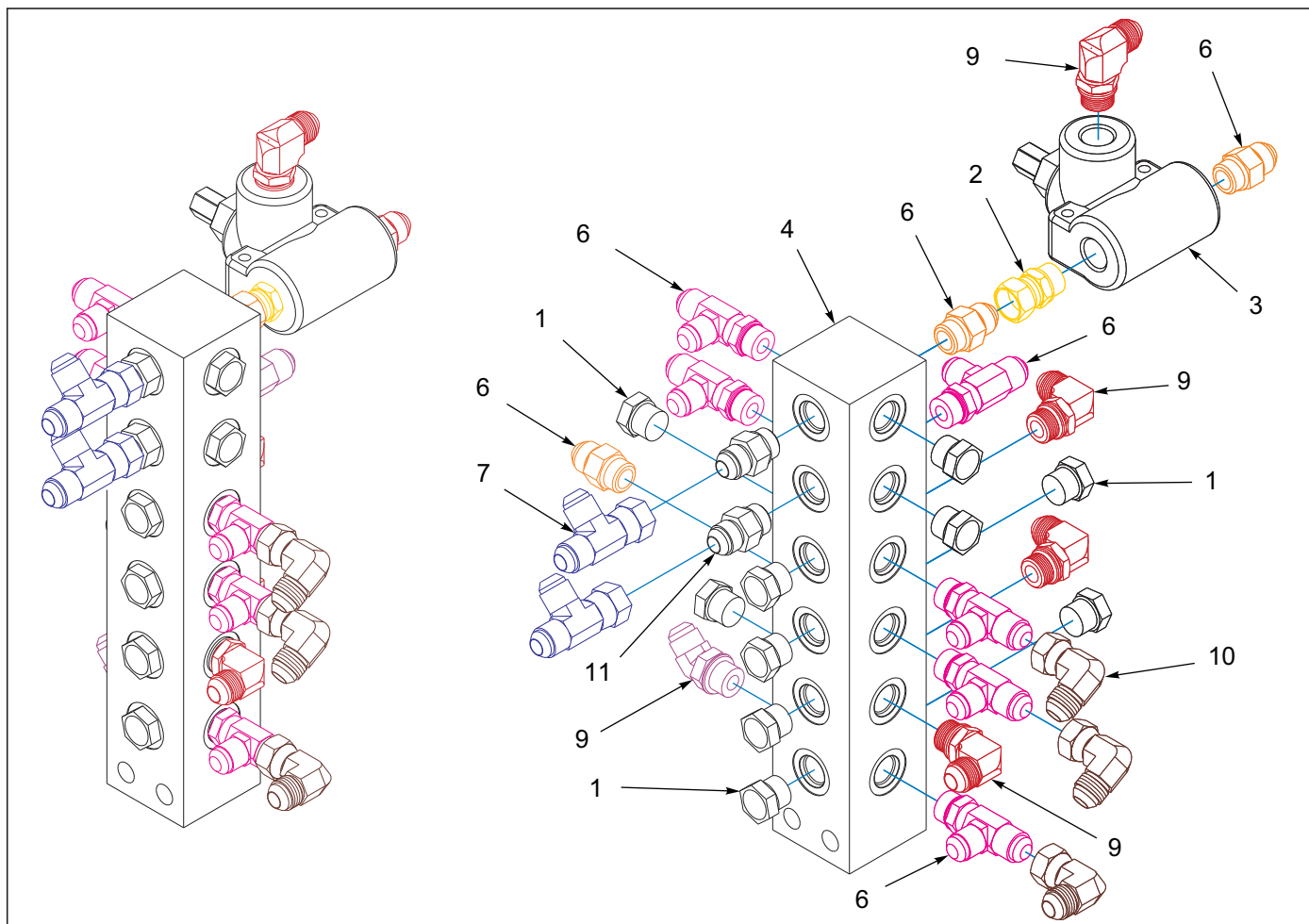


Figure 5-19: Manifold Assembly Front 7531-23'

Manifold Assembly Front 7531-23'

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250287	MANIFOLD, FRONT 7531-23	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	10
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	165287	VALVE, RELIEF, 1000PSI	1
4	191923	MANIFOLD HYDRAULIC 24 PORT	1
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	3
6	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	6
7	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
8	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	1
9	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	4
10	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3
11	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2

Table provided for general use.

[illegible]

Manifold Assembly Front 7531-26'/29' Before

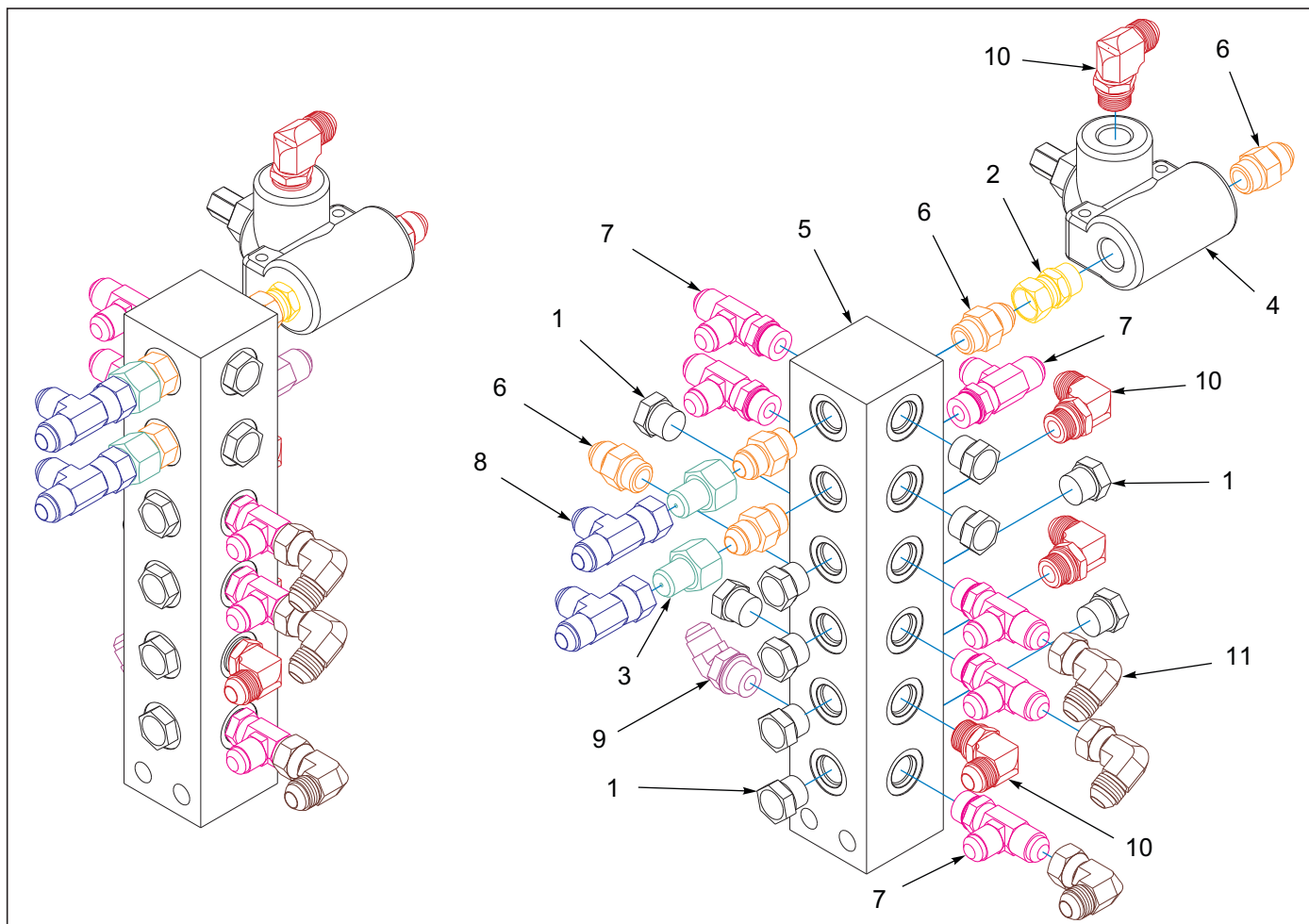


Figure 5-20: Manifold Assembly Front 7531-26'/29' Before

Manifold Assembly Front 7531-26'/29' Before

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250288	MANIFOLD, FRONT 7531-26/29	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	10
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	127806	ADAPTER,HYD,-8JIC W/3/32RESTR	2
4	165287	VALVE, RELIEF, 1000PSI	1
5	191923	MANIFOLD HYDRAULIC 24 PORT	1
6	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	5
7	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	6
8	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
9	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	1
10	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	4
11	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3

Manifold Assembly Front 7531-26'/29' After

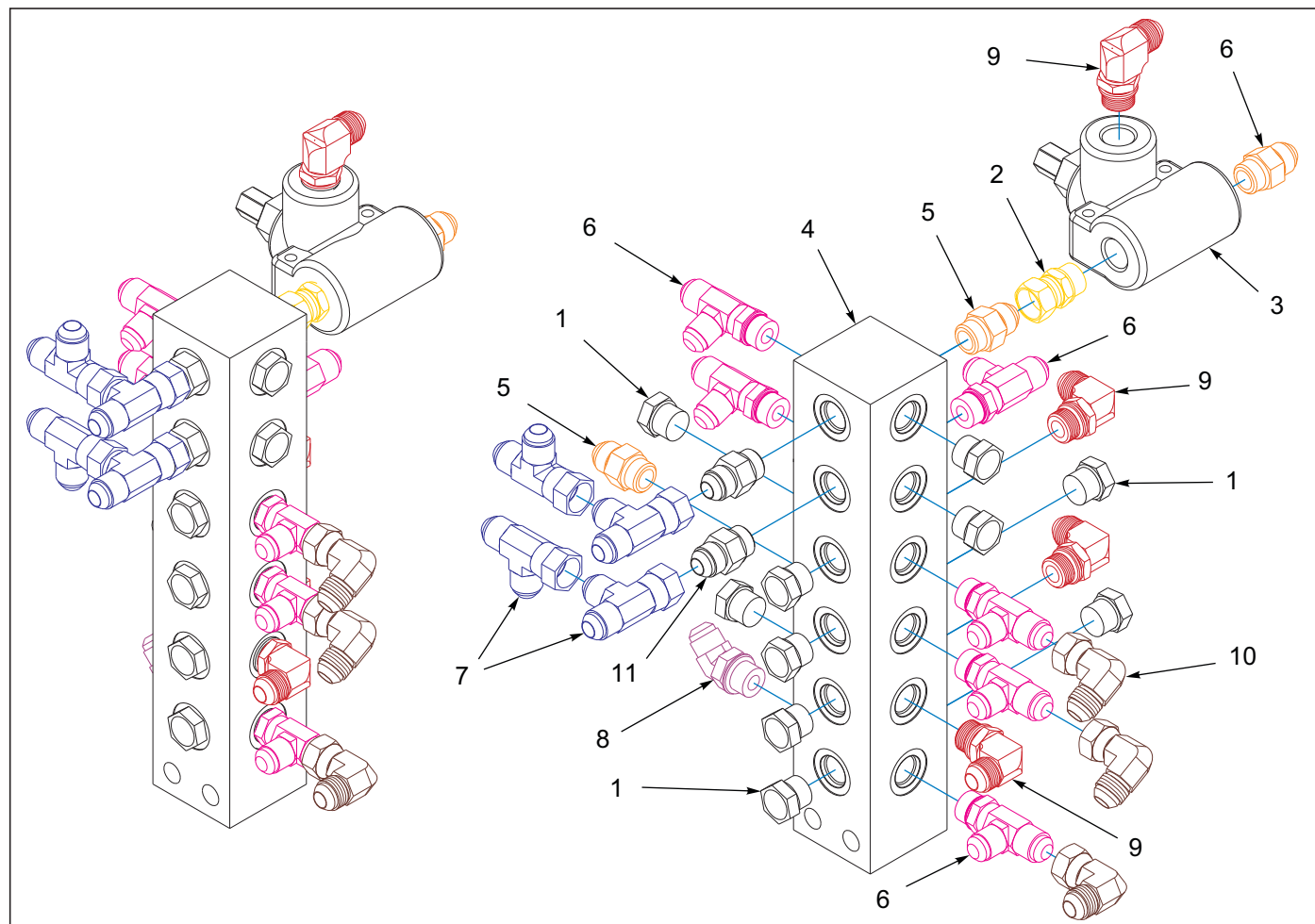


Figure 5-21: Manifold Assembly Front 7531-26'/29' After

Manifold Assembly Front 7531-26'/29' After

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250288	MANIFOLD, FRONT 7531-26/29	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	10
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	165287	VALVE, RELIEF, 1000PSI	1
4	191923	MANIFOLD HYDRAULIC 24 PORT	1
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	3
6	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	6
7	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	4
8	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	1
9	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	4
10	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3
11	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2

Manifold Assembly Rear 7531-26'/29' Before

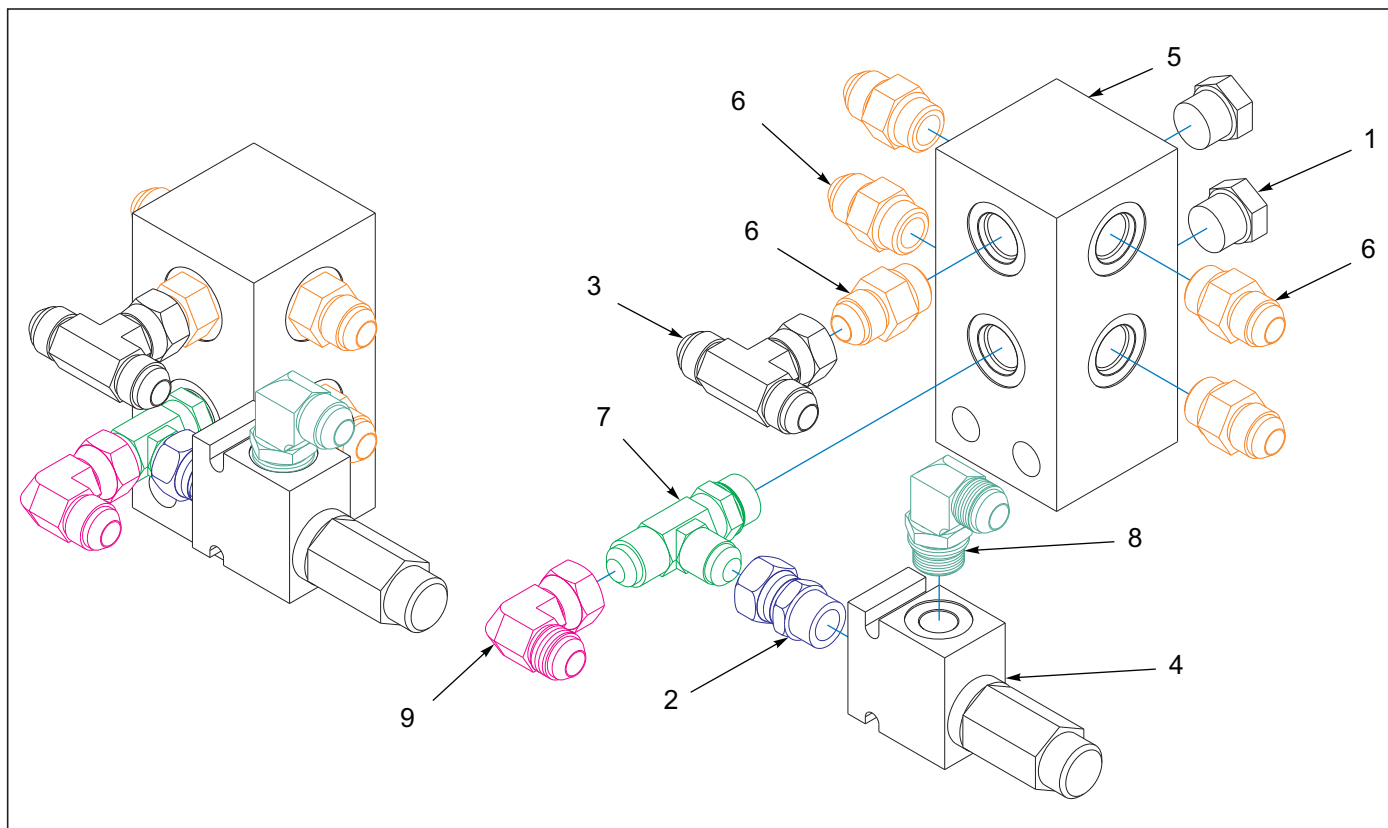


Figure 5-22: Manifold Assembly Front 7531-26'/29' Before

Manifold Assembly Rear 7531-26'/29' Before

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250291	MANIFOLD, RR 7531-26/29	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	123109	ADAPTER, TEE, #8JIC FEM BR	1
4	193149	VALVE,RELIEF PILOT OP W/REV CK	1
5	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
6	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	4
7	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
8	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	1
9	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	1

Manifold Assembly Rear 7531-26'/29' After

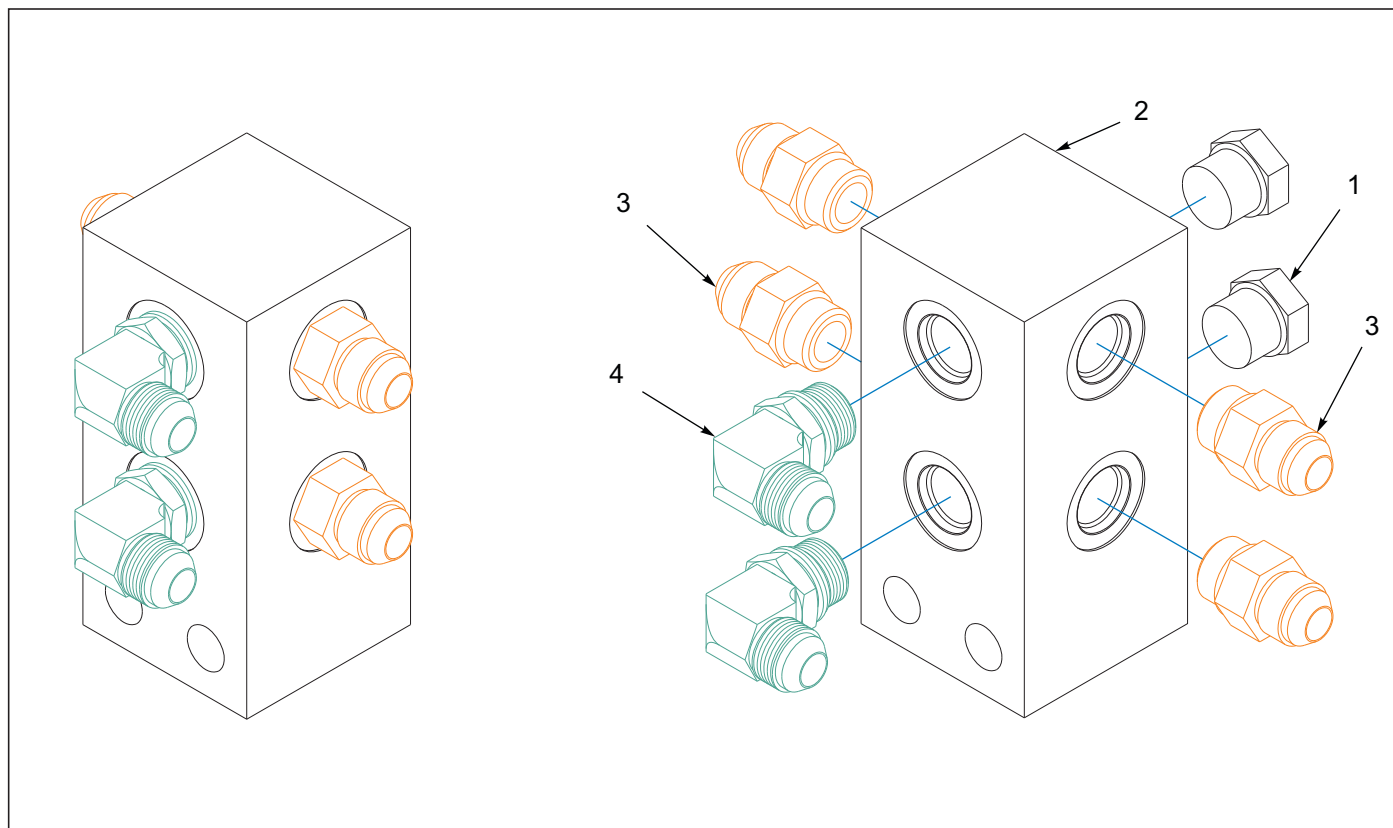


Figure 5-23: Manifold Assembly Front 7531-26'/29' After

Manifold Assembly Rear 7531-26'/29' After

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250291	MANIFOLD, RR 7531-26/29	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	4
4	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	2

Manifold Assembly Front 7531-32'-35' Before

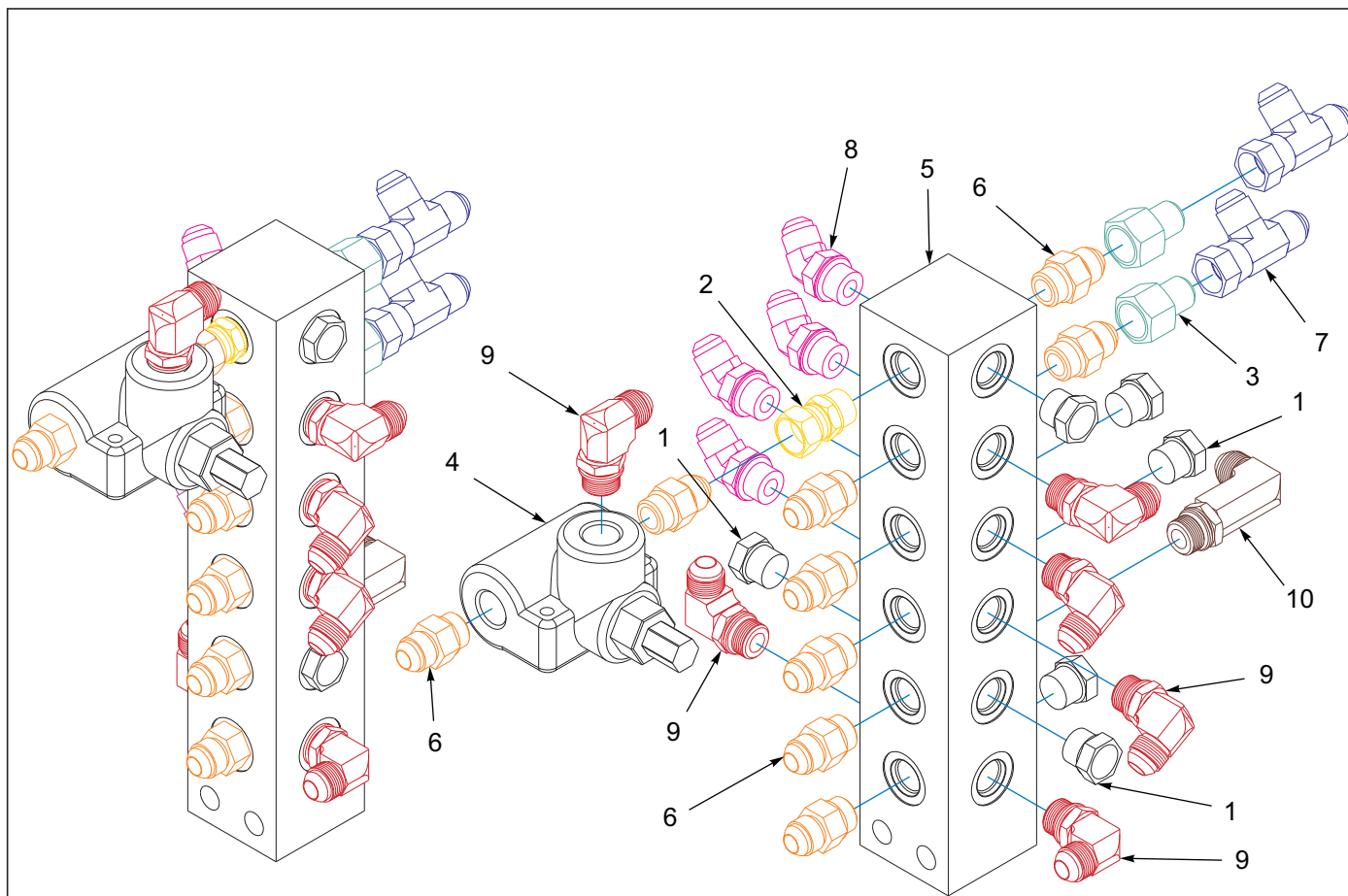


Figure 5-24: Manifold Assembly Front 7531-32'-35' Before

Manifold Assembly Front 7531-32'-35' Before

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250289	MANIFOLD, FRONT 7531-32/35	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	6
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	127806	ADAPTER,HYD,-8JIC W/3/32RESTR	2
4	165287	VALVE, RELIEF, 1000PSI	1
5	191923	MANIFOLD HYDRAULIC 24 PORT	1
6	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	9
7	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
8	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	4
9	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	6
10	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	1

Manifold Assembly Front 7531-32'-35' After

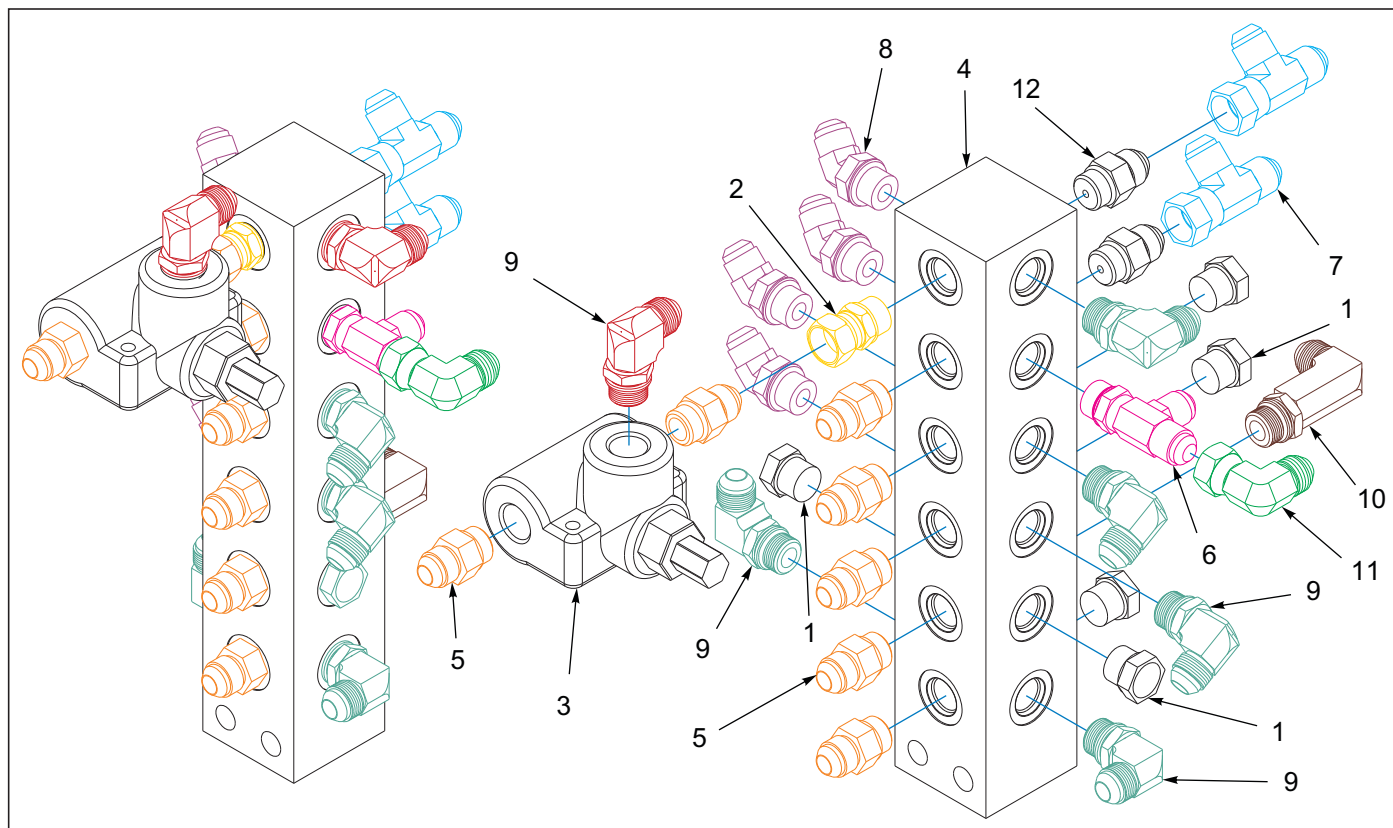


Figure 5-25: Manifold Assembly Front 7531-32'-35' After

Manifold Assembly Front 7531-32'-35' After

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250289	MANIFOLD, FRONT 7531-32/35	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	5
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	165287	VALVE, RELIEF, 1000PSI	1
4	191923	MANIFOLD HYDRAULIC 24 PORT	1
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	7
6	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
7	203102-8-8S	ADAPTER,TEE,1/2 #8JICX#8JICSWV	2
8	2061-8-8S	ADAPTER, 45°, #8 O-RING-TUBE	4
9	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	6
10	206209-8-8S	ADAPTER,90°LONG,#8 O-RING-TUBE	1
11	2071-8-8S	ADAPTER90° #8 FLR SWIVEL #8JIC	1
12	256100	ADAPTER #8 O-RG-#8 TB .156 RES	2

Manifold Assembly Front 7531-32'-35'

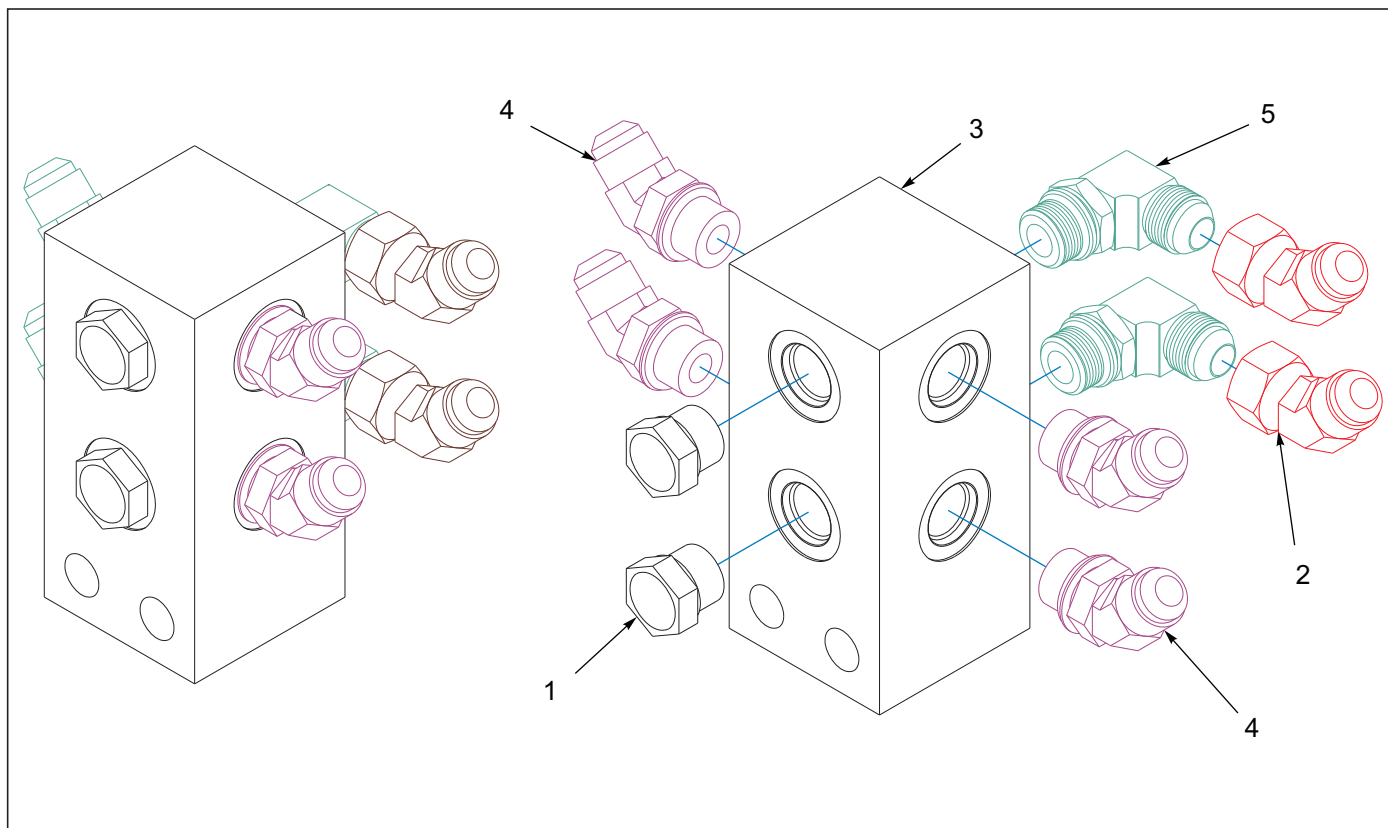


Figure 5-26: Manifold Assembly Front7531-32'-35'

Manifold Assembly Front 7531-32'-35

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250290	MANIFOLD, FT 7531-32/35	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
2	121031	FITTING,45EL #8M X #8F 37SWVL	2
3	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
4	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	4
5	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	2

Table provided for general use.

[illegible]

Manifold Assembly Rear 7531-32'-35' Before

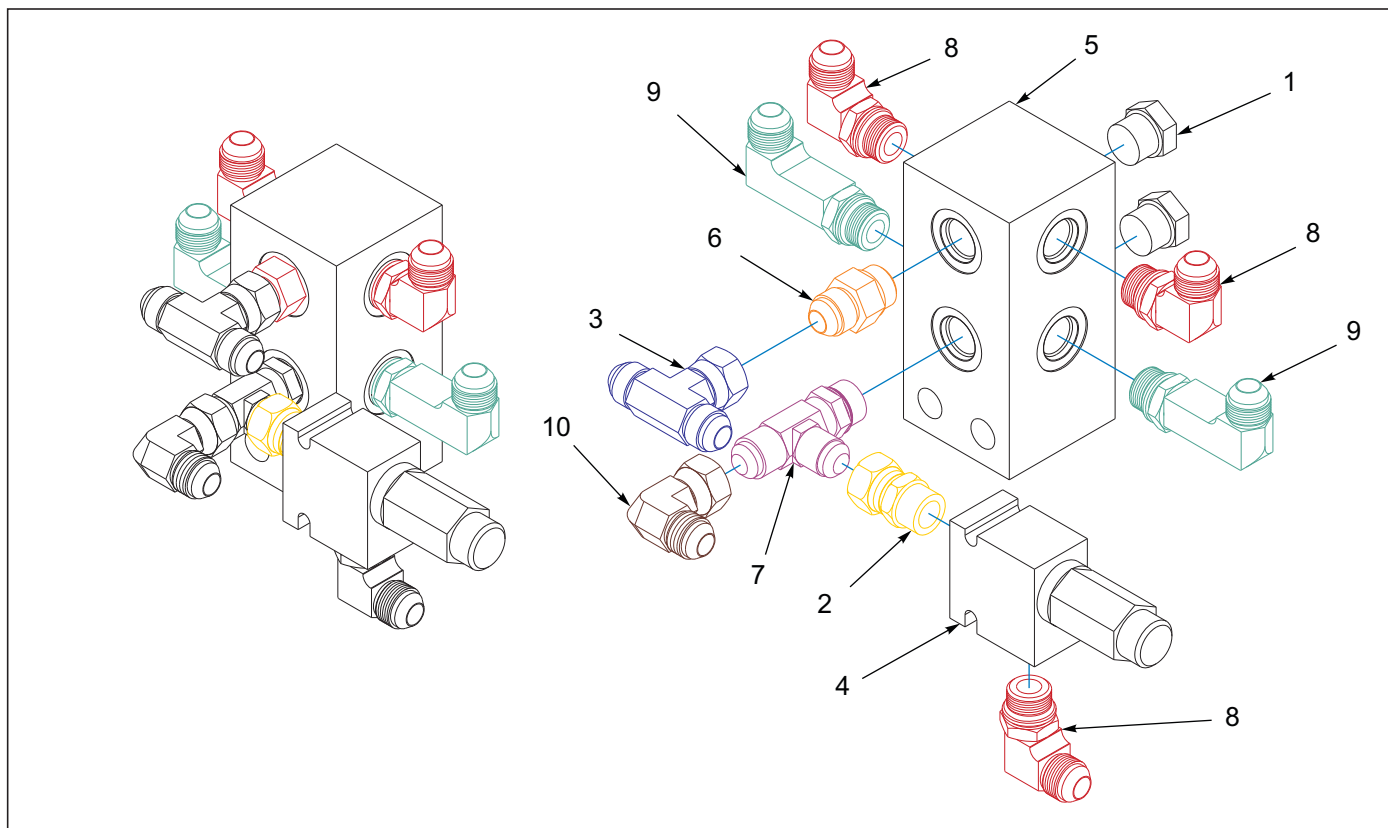


Figure 5-27: Manifold Assembly Rear 7531-32'-35' Before

Manifold Assembly Rear 7531-32'-35' Before

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250292	MANIFOLD, RR 7531-32/35	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
2	102-1130	FTG,STR 8M ORING X 8F JIC SW	1
3	123109	ADAPTER, TEE, #8JIC FEM BR	1
4	193149	VALVE,RELIEF PILOT OP W/REV CK	1
5	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
6	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	1
7	203005-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	1
8	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	3
9	206209-8-8S	ADAPTER,90°LONG,#8 O-RING-TUBE	2
10	2071-8-8S	ADAPTER90° #8 FLR SWIVEL #8JIC	1

Manifold Assembly Rear 7531-32'-35' After

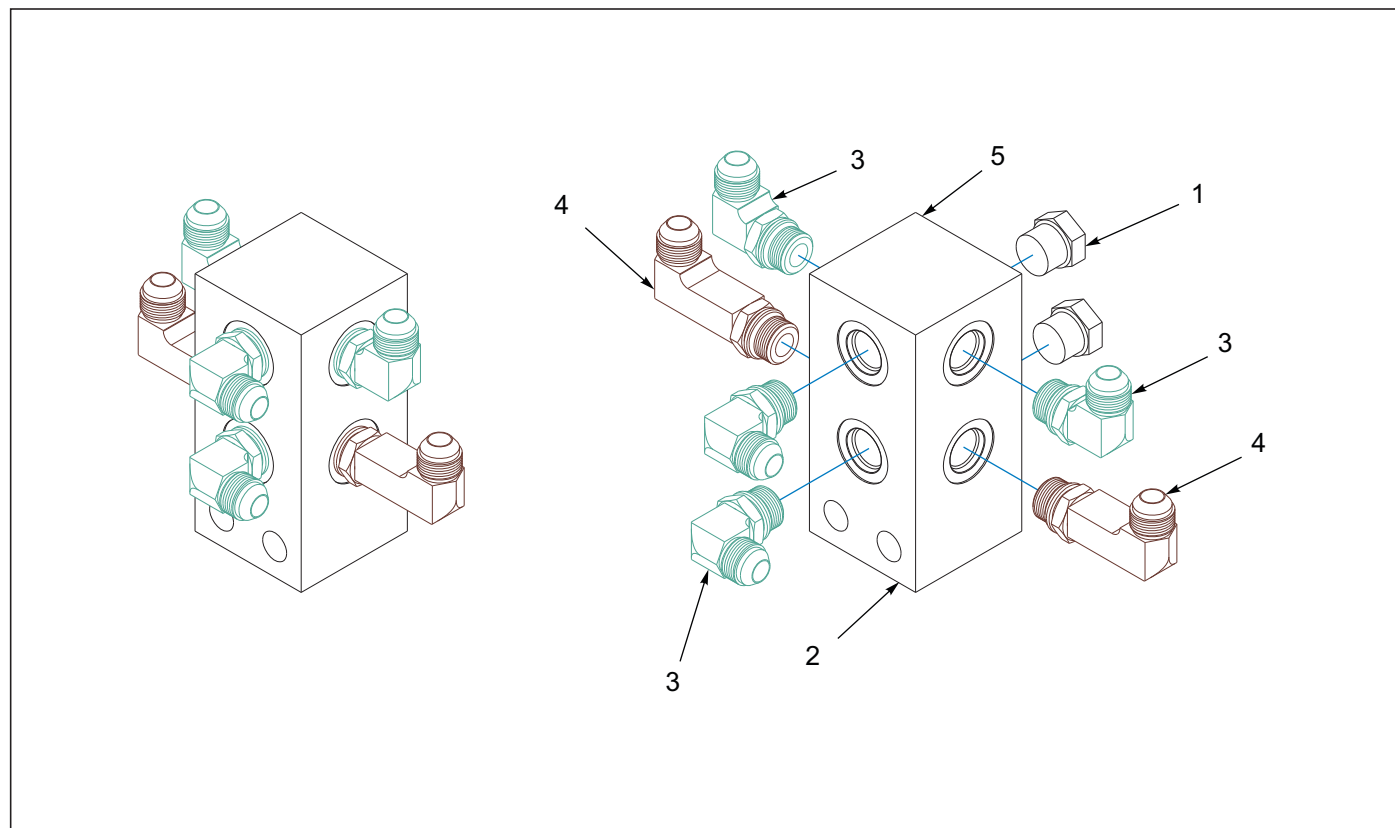


Figure 5-28: Manifold Assembly Rear 7531-32'-35' After

Manifold Assembly Rear 7531-32'-35' After

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	250292	MANIFOLD, RR 7531-32/35	
1	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	4
4	206209-8-8S	ADAPTER,90LONG,#8 O-RING-TUBE	2

Cylinders

Cylinder Assembly 4 x 10 Rephase (Prince)

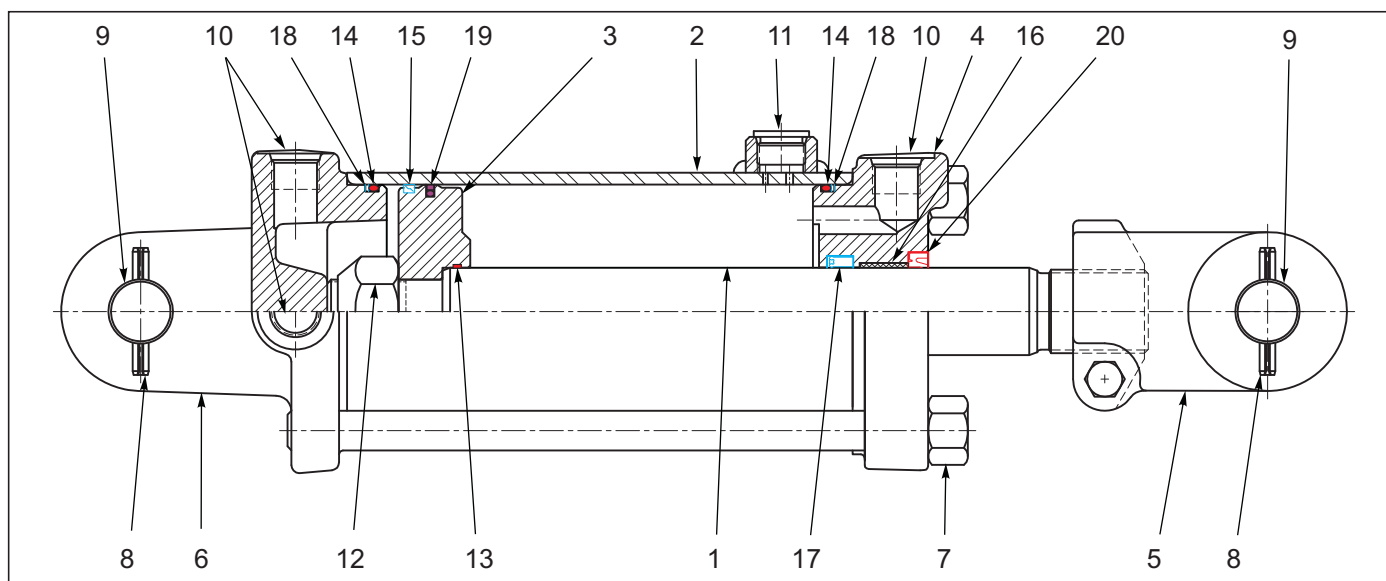


Figure 6-1: Cylinder Assembly 4 x 10 Rephase (Prince)

Cylinder Assembly 4 x 10 Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247549	CYL, 4 X 10, REPHASE 1.25 PIN	
1	-----	PISTON ROD	1
2	-----	TUBE ASSEMBLY	1
3	-----	PISTON	1
4	252929	GLAND, 4" BORE, PRINCE	1
5	252937	ROD CLEVIS-ADI, 1-1/4 PIN, PRINC	1
6	252938	BUTT CLEVIS-ADI, 4 BORE, PRINCE	1
7	-----	TIE ROD STUD W/ HEX NUT	1
8	147072	PIN, SPRING SLOTTED 5/16 X 2	4
9	147755	CLEVIS PIN, Ø1-1/4 HARD, 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	252939	PACKING KIT, 4" BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 4 x 10 Rephase (Midway)

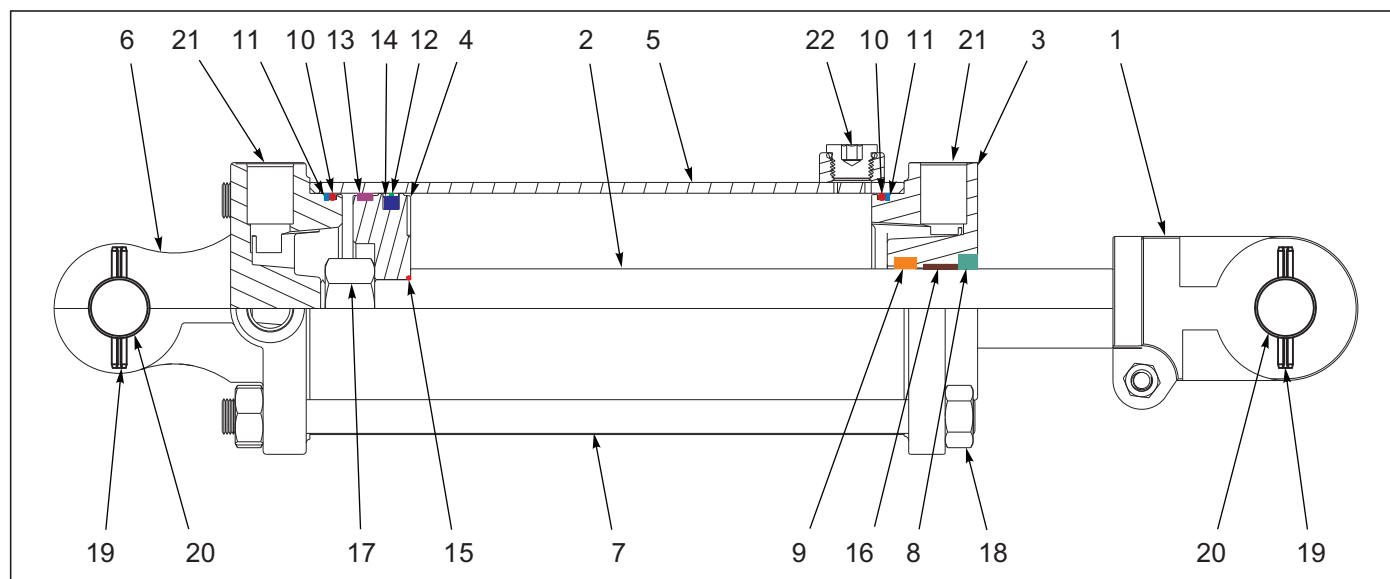


Figure 6-2: Cylinder Assembly 4 x 10 Rephase (Midway)

Cylinder Assembly 4 x 10 Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247549M	CYL, 4X10, REPHASE 1.25 PIN	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	229560	GLAND, 4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	229558	BUTT CLEVIS, 4" BORE,MIDWAY	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226615	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	229561	PACKING KIT, 4" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 4-1/2 x 10 Rephase (Prince)

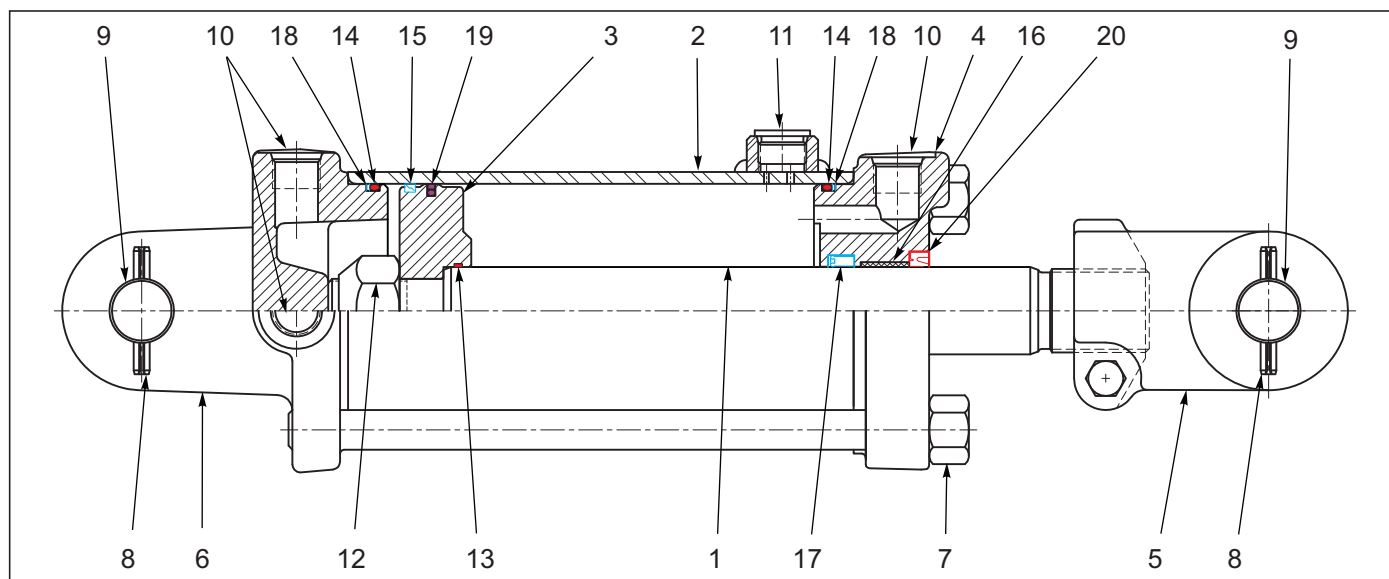


Figure 6-3: Cylinder Assembly 4-1/2 x 10 Rephase (Prince)

Cylinder Assembly 4-1/2 x 10 Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247550	CYLINDER, 4-1/2 X 10, REPHASE	
1	-----	PISTON ROD	1
2	-----	TUBE ASSEMBLY	1
3	-----	PISTON	1
4	252932	GLAND, 4-1/2" BORE, PRINCE	1
5	252933	ROD CLEVIS-ADI, 1-1/4 PIN, PRINC	1
6	252934	BUTT CLEVIS-ADI, 4-1/2 BORE, PRC	1
7	-----	TIE ROD STUD W/ HEX NUT	1
8	147072	PIN, SPRING SLOTTED 5/16 X 2	4
9	147755	CLEVIS PIN, Ø1-1/4 HARD, 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	252935	GLAND BUSHING, 2" ROD, PRINCE	1
17	-----	U- CUP	1
18	-----	BU- WASHER	2
19	-----	TEFLON SEAL	1
20	-----	CANNED WIPER	1
21	252936	PACKING KIT, 4-1/2 BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 4-1/2 x 10 Rephase (Midway)

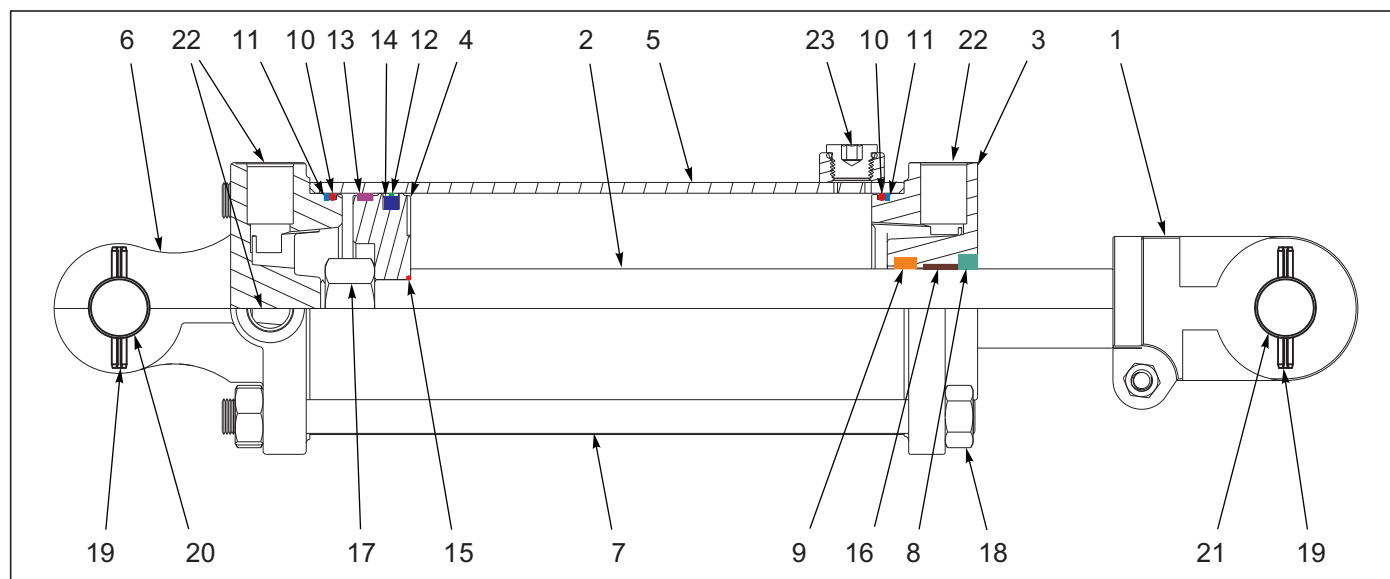


Figure 6-4: Cylinder Assembly 4-1/2 x 10 Rephase (Midway)

Cylinder Assembly 4-1/2 x 10 Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247550M	CYLINDER, 4-1/2 X 10, REPHASE	
1	229553	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	226607	GLAND, 4-1/2" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	229552	BUTT CLEVIS, 4-1/2 BORE,MIDWAY	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226614	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	1
21	226615	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	1
22	-----	HEX PLUG	3
23	-----	REPHASING PORT PLUG	1
24	226616	PACKING KIT,4-1/2" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 4-1/2 x 8 Rephase (Prince)

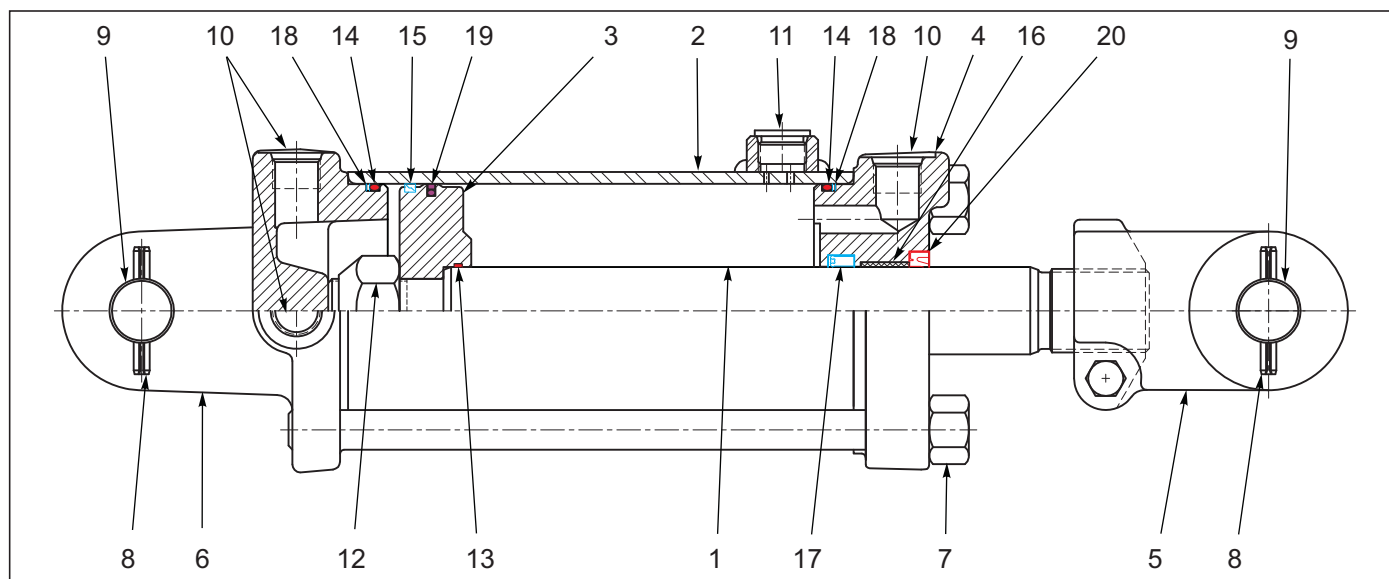


Figure 6-5: Cylinder Assembly 4-1/2 x 8 Rephase (Prince)

Cylinder Assembly 4-1/2 x 8 Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247538	CYLINDER, 4-1/2 X 8, REPHASE	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252932	GLAND, 4-1/2" BORE, PRINCE	1
5	252933	ROD CLEVIS-ADI, 1-1/4" PIN, PRINC	1
6	252934	BUTT CLEVIS-ADI, 4-1/2 BORE, PRC	1
7	----	TIE ROD STUD W/ HEX NUT	1
8	147072	PIN, SPRING SLOTTED 5/16 X 2	4
9	147755	CLEVIS PIN, Ø1-1/4 HARD, 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	252935	GLAND BUSHING, 2" ROD, PRINCE	1
17	----	U- CUP	1
18	----	BU- WASHER	2
19	----	TEFLON SEAL	1
20	----	CANNED WIPER	1
21	252949	PACKING KIT, 4-1/2 BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 4-1/2 x 8 Rephase (Midway)

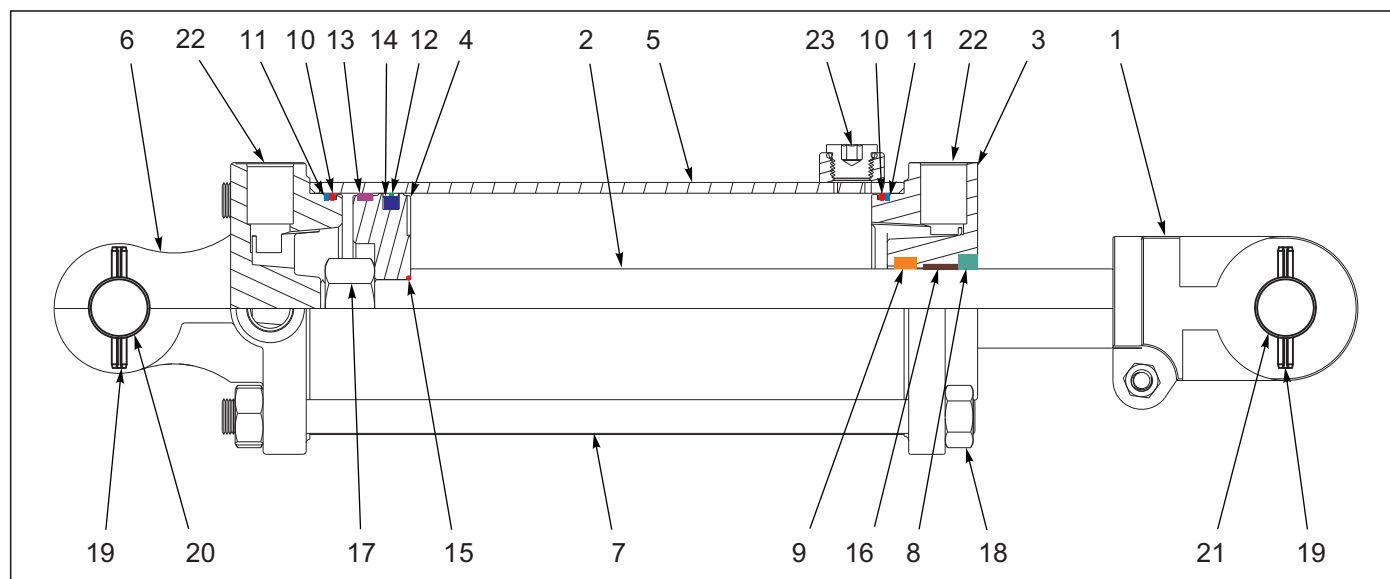


Figure 6-6: Cylinder Assembly 4-1/2 x 8 Rephase (Midway)

Cylinder Assembly 4-1/2 x 8 Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247538M	CYLINDER, 4-1/2 X 8, REPHASE	
1	229553	ROD CLEVIS-ADI, 1-1/4 PIN, MIDWA	1
2	-----	ROD	1
3	226607	GLAND, 4-1/2" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	226610	BUTT CLEVIS-ADI, 4-1/2" BORE	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226614	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	1
21	226615	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	1
22	-----	HEX PLUG	3
23	-----	REPHASING PORT PLUG	1
24	226616	PACKING KIT, 4-1/2" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 4 x 8 Rephase

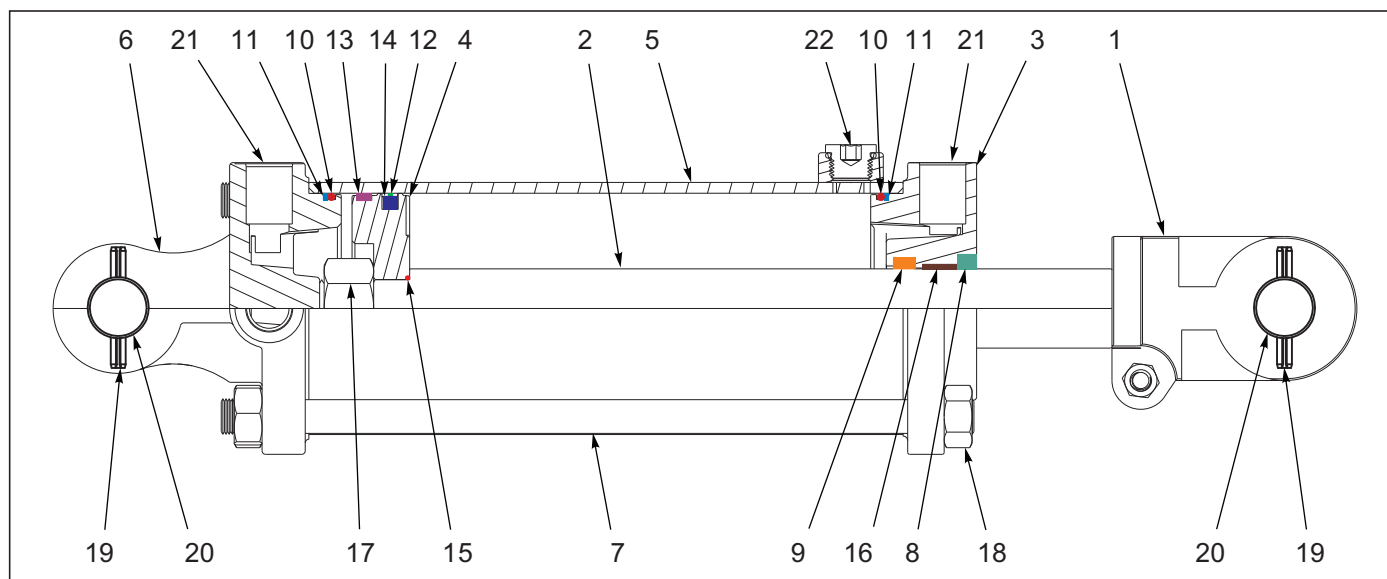


Figure 6-7: Cylinder Assembly x 30 Rephase

Cylinder Assembly 4 x 8 Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254278	CYL, 4 X 8, REPHASE, 1.25 PIN	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	229560	GLAND, 4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	256701	BUTT CLEVIS-ADI,4" BORE,MIDWAY	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226589	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	229561	PACKING KIT,4" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 3-3/4 x 8 Rephase

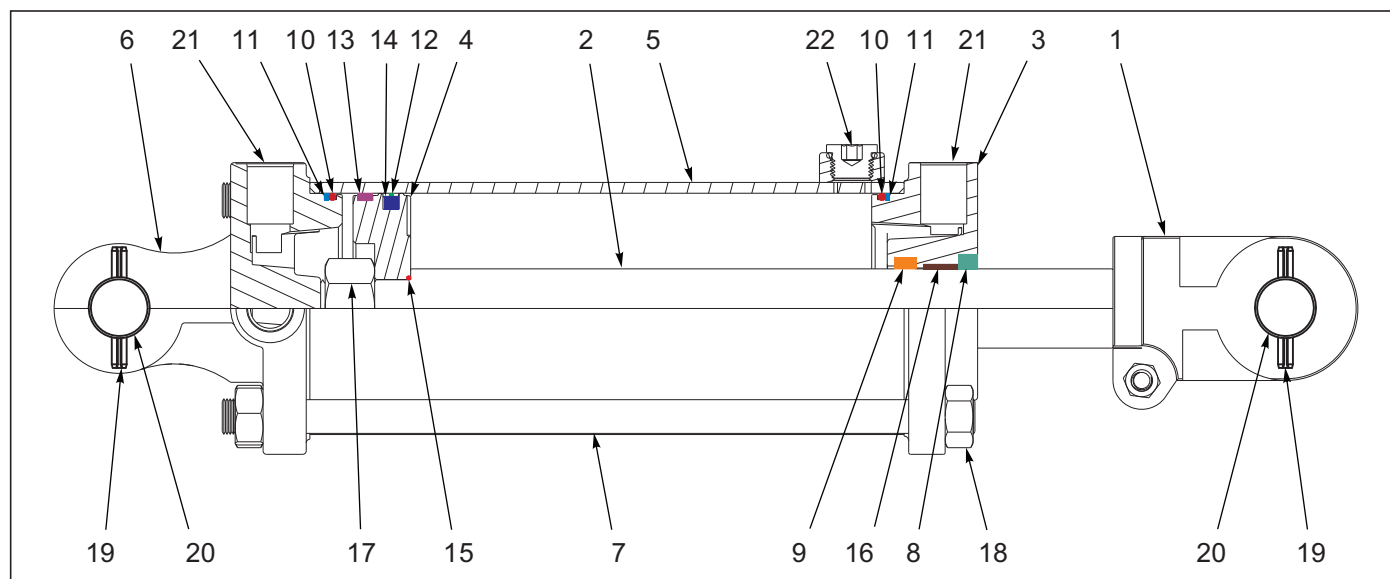


Figure 6-8: Cylinder Assembly 3-3/4 x 30 Rephase

Cylinder Assembly 3-3/4 x 8 Rephase

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254277	CYL,3-3/4 X 8,REPHASE,1.25 PIN	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	231802	GLAND, 3-3/4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	254323	BUTT CLEVIS-ADI,3-3/4" BORE,MW	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226589	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	231803	PACKING KIT,3-3/4" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

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

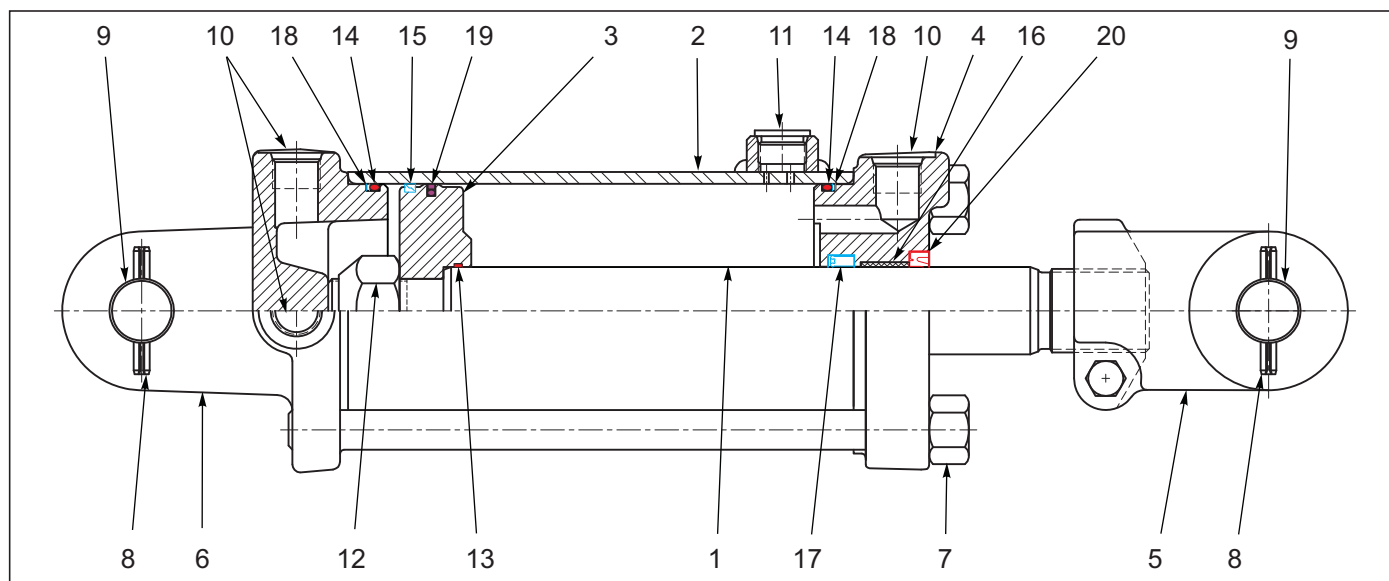


Figure 6-9: Cylinder Assembly 3-1/4 x 8 Rephase (Prince)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247534	CYLINDER, 3-1/4 X 8, REPHASE	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252942	GLAND, 3-1/4" BORE, PRINCE	1
5	252920	ROD CLEVIS-ADI, 1" PIN, PRINCE	1
6	252943	BUTT CLEVIS-ADI, 3-1/4 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	252922	GLAND BUSHING, 1-1/4 ROD, PRINCE	1
17	----	U- CUP	1
18	----	BU- WASHER	2
19	----	TEFLON SEAL	1
20	----	CANNED WIPER	1
21	252945	PACKING KIT, 3-1/4 BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

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

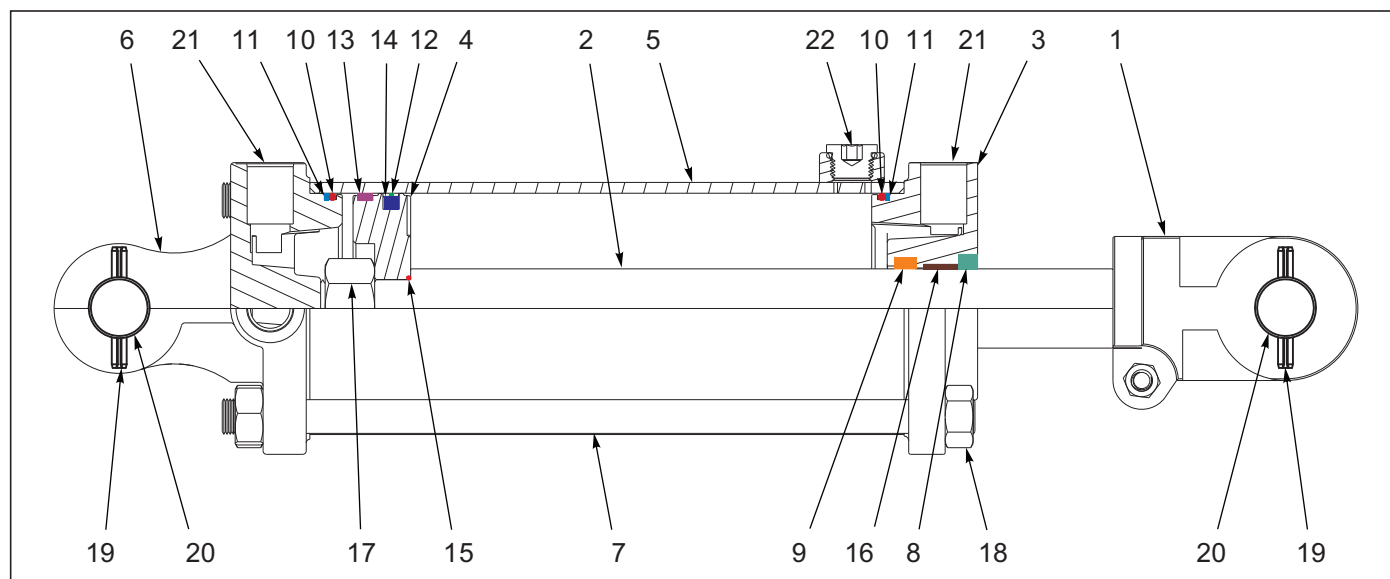


Figure 6-10: Cylinder Assembly 3-1/4 x 8 Rephase (Midway)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247534M	CYLINDER, 3-1/4 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	----	ROD	1
3	234420	GLAND, 3-1/4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	234419	BUTT CLEVIS-ADI, 3-1/4" BORE	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	234421	PACKING KIT,3-1/4" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

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

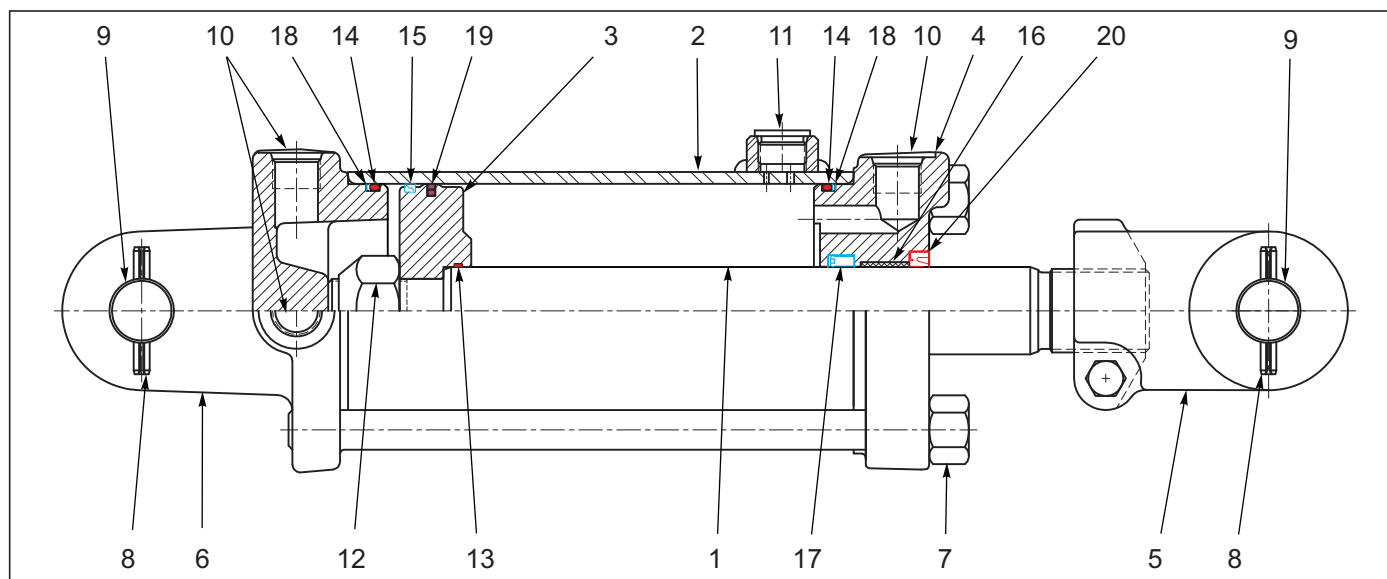


Figure 6-11: Cylinder Assembly 3-1/2 x 8 Rephase (Prince)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247535	CYLINDER, 3-1/2 X 8, REPHASE	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252919	GLAND, 3-1/2" BORE, PRINCE	1
5	252920	ROD CLEVIS-ADI, 1" PIN, PRINCE	1
6	252921	BUTT CLEVIS-ADI, 3-1/2 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	252922	GLAND BUSHING, 1-1/4 ROD, PRINCE	1
17	----	U- CUP	1
18	----	BU- WASHER	2
19	----	TEFLON SEAL	1
20	----	CANNED WIPER	1
21	252946	PACKING KIT, 3-1/2 BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

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

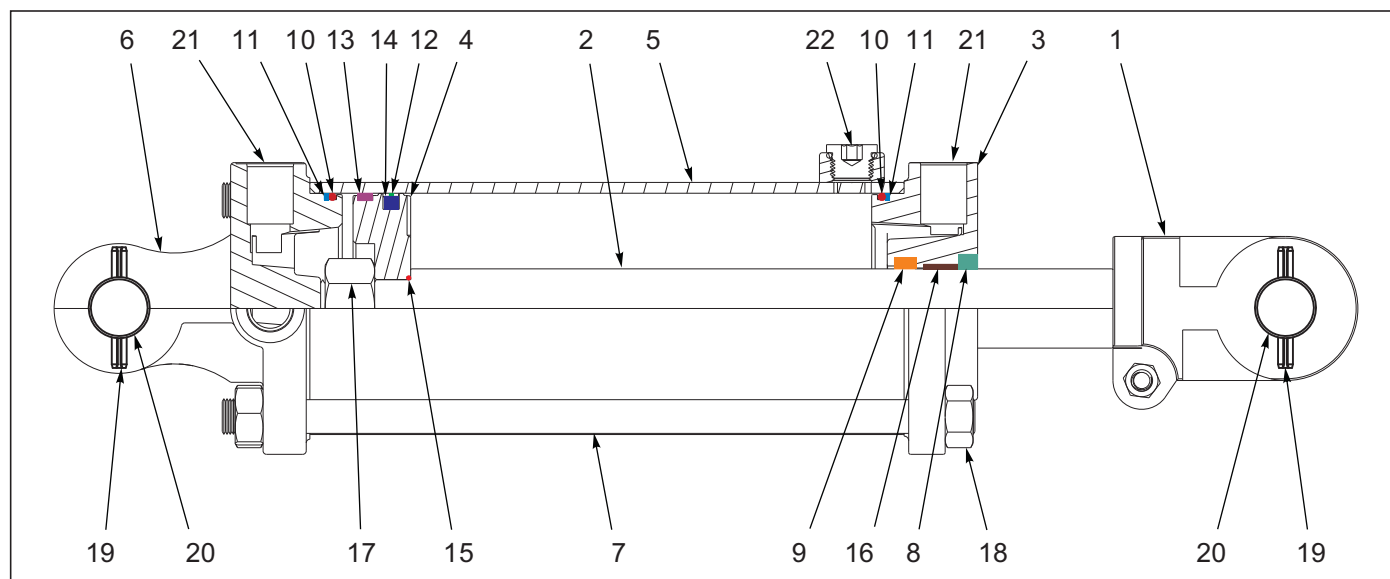


Figure 6-12: Cylinder Assembly 3-1/2 x 8 Rephase (Midway)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247535M	CYLINDER, 3-1/2 X 8, REPHASE	
1	231792	ROD CLEVIS-ADI, 1" PIN, MIDWAY	1
2	-----	ROD	1
3	234417	GLAND, 3-1/2" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	234416	BUTT CLEVIS-ADI, 3-1/2" BORE	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
20	229565	CLEVIS PIN, Ø1" HARDEN, MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	234418	PACKING KIT,3-1/2" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 3-3/4 x 10 Rephase (Prince)

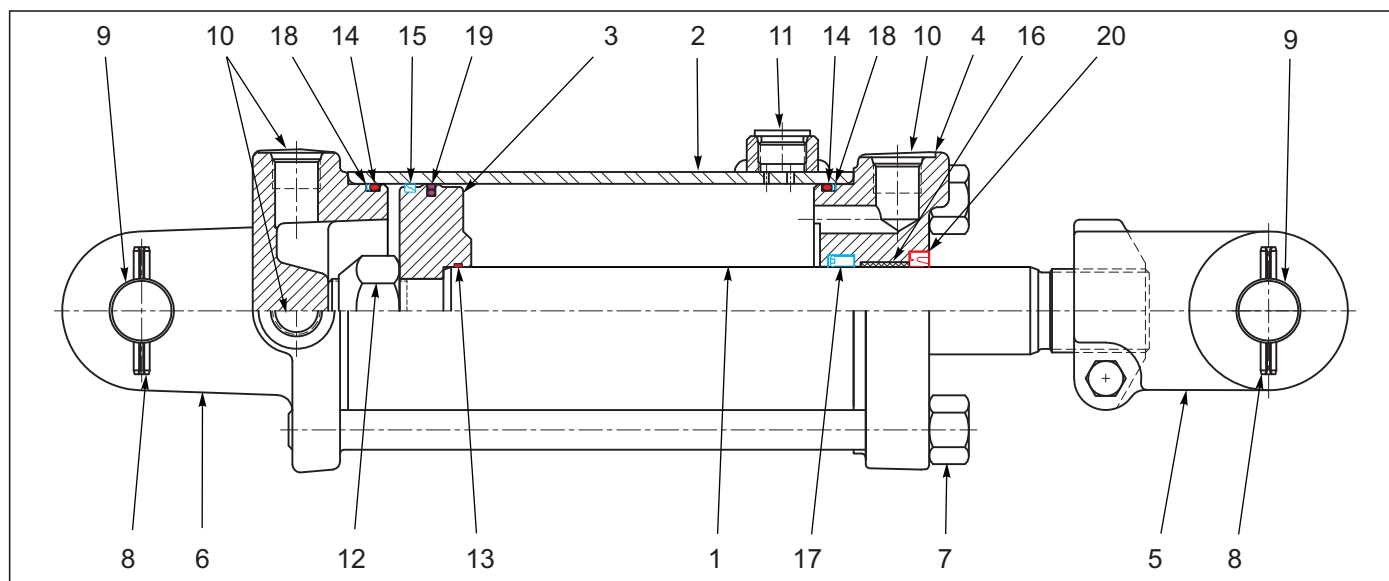


Figure 6-13: Cylinder Assembly 3-3/4 x 10 Rephase (Prince)

Cylinder Assembly 3-3/4 x 10 Rephase (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247548	CYL,3-3/4X10, REPHASE 1.25 PIN	
1	-----	PISTON ROD	1
2	-----	TUBE ASSEMBLY	1
3	-----	PISTON	1
4	252924	GLAND, 3-3/4" BORE, PRINCE	1
5	252937	ROD CLEVIS-ADI, 1-1/4 PIN, PRINCE	1
6	252940	BUTT CLEVIS-ADI,3-3/4 BORE,PRC	1
7	-----	TIE ROD STUD W/ HEX NUT	1
8	147072	PIN, SPRING SLOTTED 5/16 X 2	4
9	147755	CLEVIS PIN,Ø1-1/4 HARD,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	252941	PACKING KIT, 3-3/4 BORE,PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 3-3/4 x 10 Rephase (Midway)

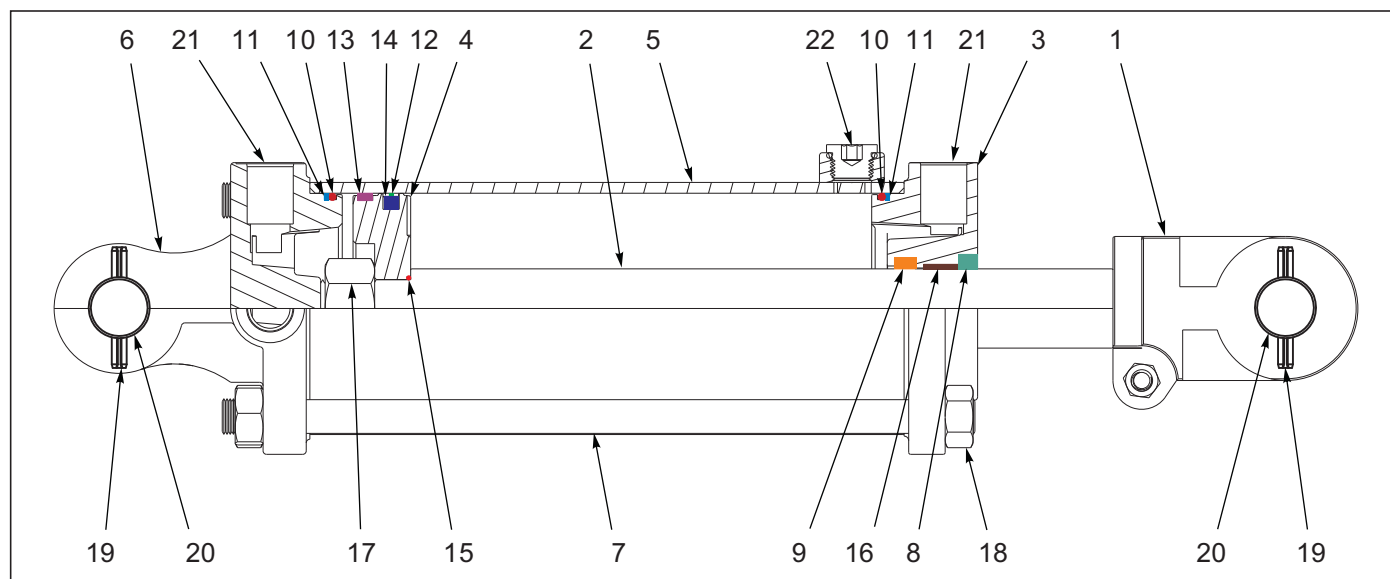


Figure 6-14: Cylinder Assembly 3-3/4 x 10 Rephase (Midway)

Cylinder Assembly 3-3/4 x 10 Rephase (Midway)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247548M	CYL,3-3/4X10, REPHASE 1.25 PIN	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	----	ROD	1
3	231802	GLAND, 3-3/4" BORE, MIDWAY	1
4	----	PISTON	1
5	----	TUBE	1
6	231801	BUTT CLEVIS,3-3/4" BORE,MIDWAY	1
7	----	TIEROD	4
8	----	WIPER	1
9	----	U- CUP	1
10	----	OD O- RING	2
11	----	OD BACKUP	2
12	----	GREEN	1
13	----	WEAR RING	1
14	----	LOADER	1
15	----	O- RING	1
16	----	BUSHING	1
17	----	PISTON NUT	1
18	----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226615	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	----	HEX PLUG	3
22	----	REPHASING PORT PLUG	1
23	231803	PACKING KIT,3-3/4" BORE,MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

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

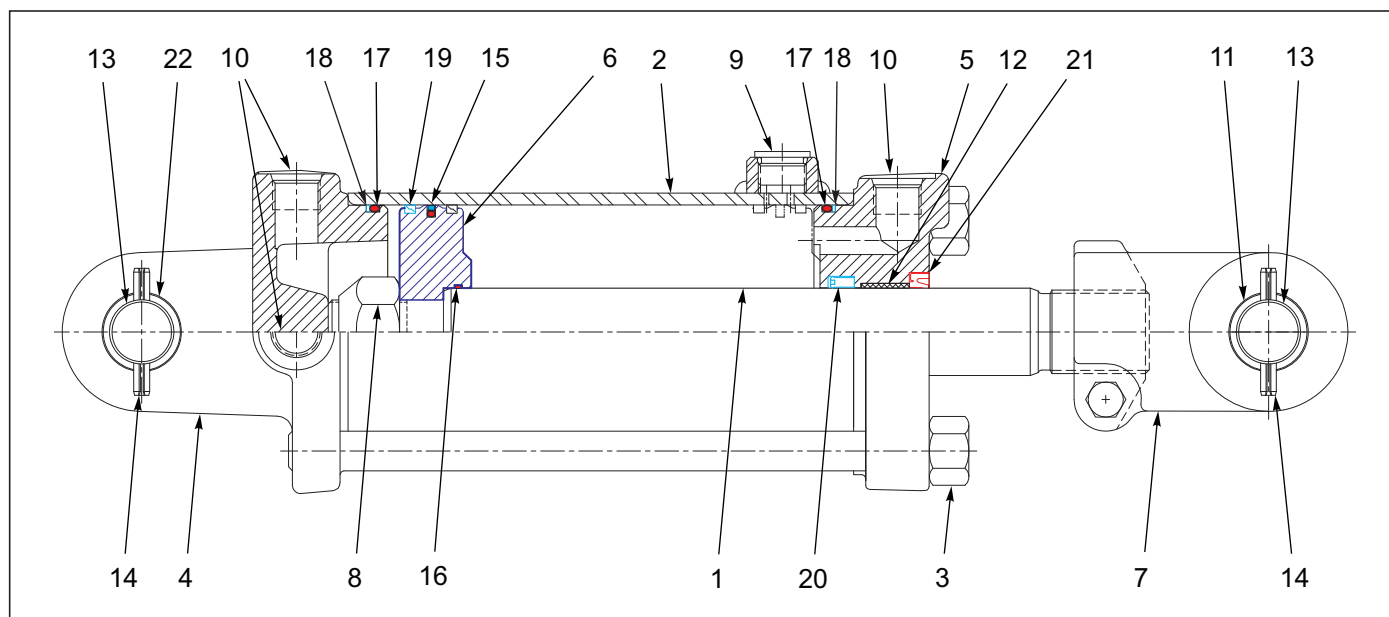


Figure 6-15: Cylinder Assembly 3-1/2 x 8, Rephase (Prince)

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

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

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

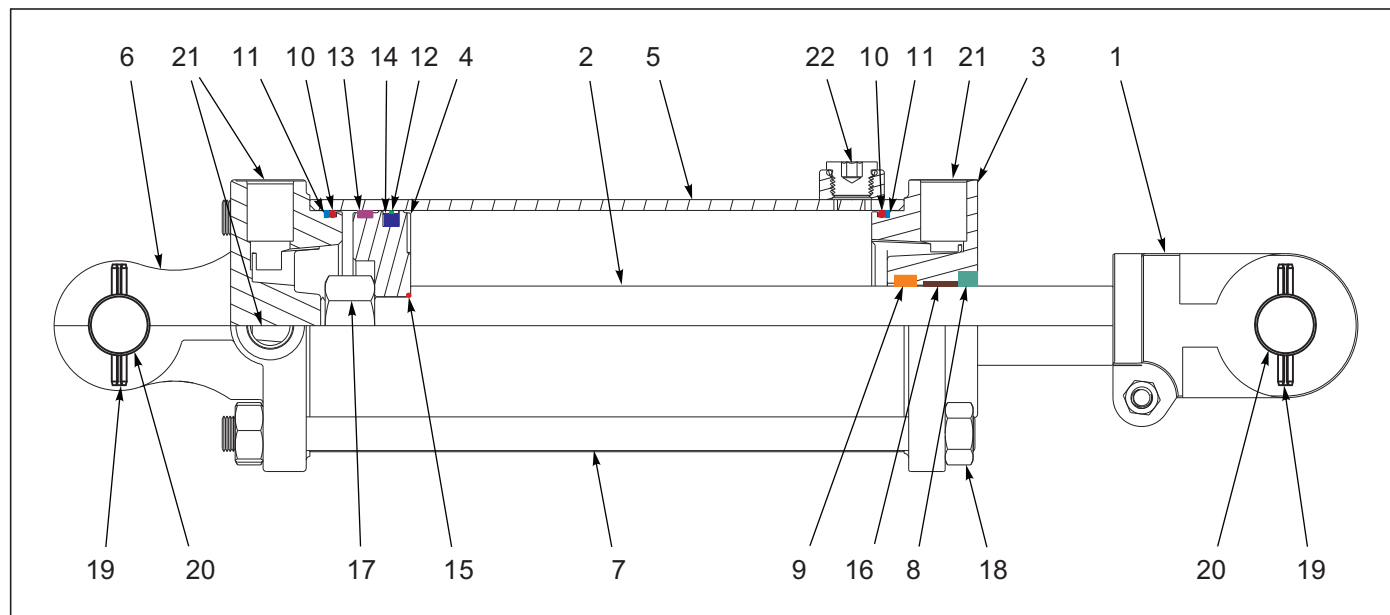


Figure 6-16: Cylinder Assembly 3-1/2 x 8, Rephase (Midway)

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

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

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

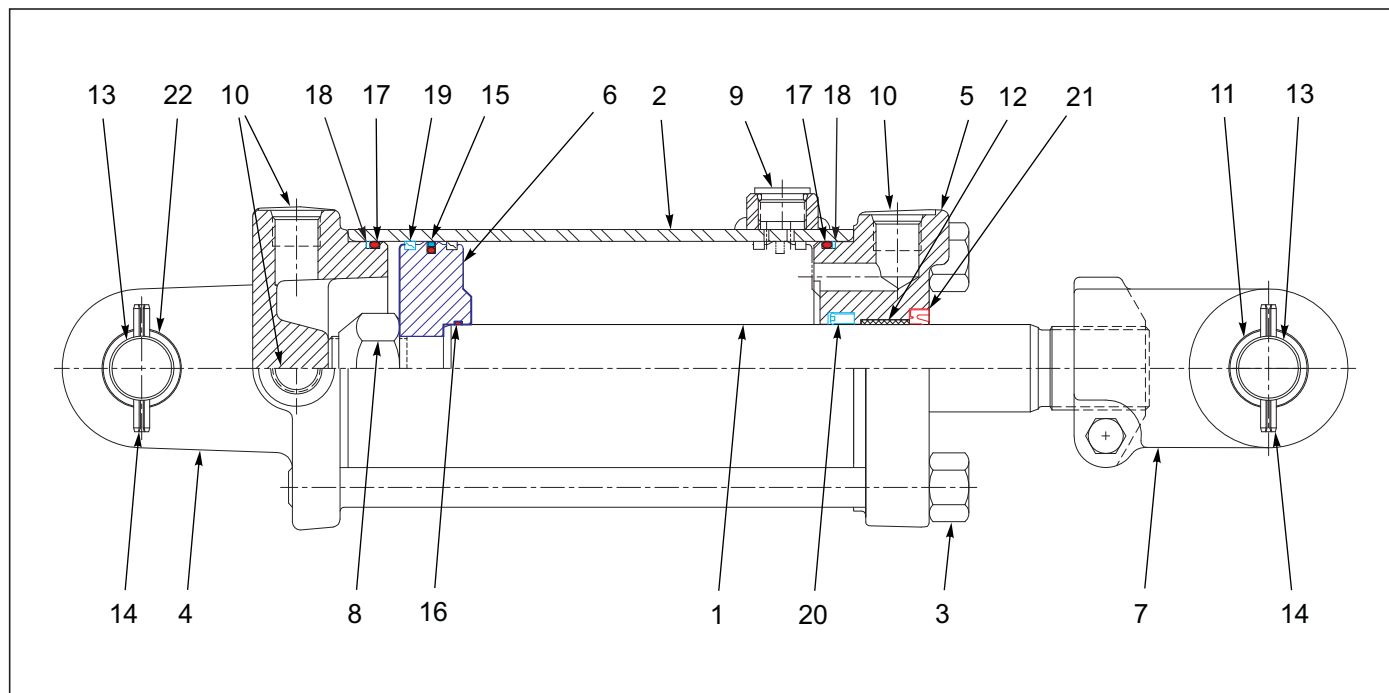


Figure 6-17: Cylinder Assembly 3-1/4 x 8, Rephase (Prince)

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

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

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

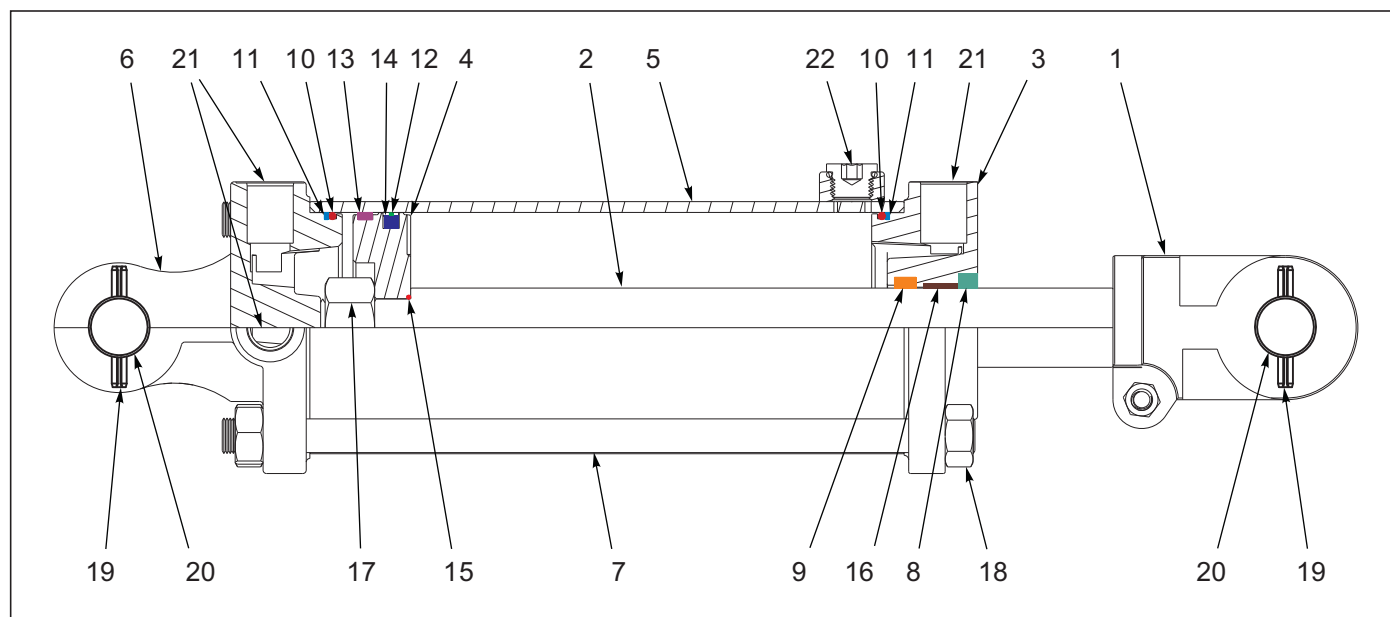


Figure 6-18: Cylinder Assembly 3-1/4 x 8, Rephase (Midway)

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

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

Cylinder Assembly 4 x 10 Rephase (Prince) (1-1/4" Clevis Pins)

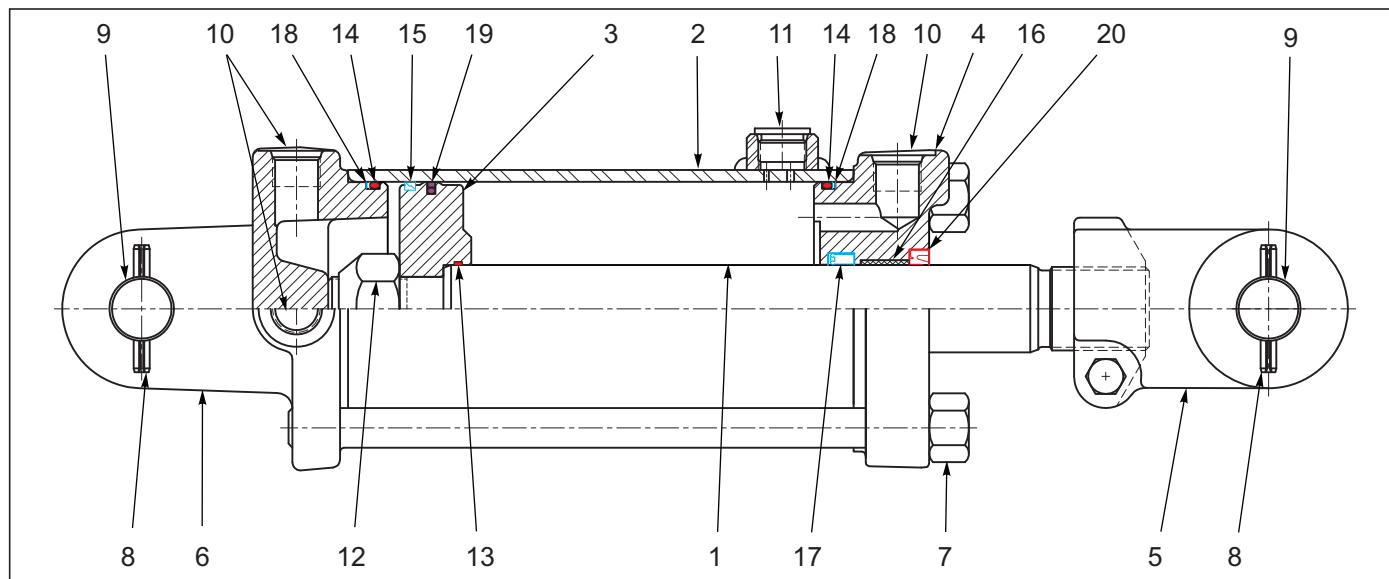


Figure 6-19: Cylinder Assembly 4 x 10 Rephase (Prince) (1-1/4 Clevis Pins)

Cylinder Assembly 4 x 10 Rephase (Prince) (1-1/4" Clevis Pins)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247549	CYL, 4 X 10, REPHASE 1.25 PIN	
1	----	PISTON ROD	1
2	----	TUBE ASSEMBLY	1
3	----	PISTON	1
4	252929	GLAND, 4" BORE, PRINCE	1
5	252937	ROD CLEVIS-ADI, 1-1/4 PIN, PRINC	1
6	252938	BUTT CLEVIS-ADI, 4 BORE, PRINCE	1
7	----	TIE ROD STUD W/ HEX NUT	1
8	147072	PIN, SPRING SLOTTED 5/16 X 2	4
9	147755	CLEVIS PIN, Ø1-1/4 HARD, 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	252939	PACKING KIT, 4" BORE, PRINCE (NOT SHOWN) (INCLUDES ITEMS 13-20)	

Cylinder Assembly 4 x 10 Rephase (Midway) (1-1/4" Clevis Pins)

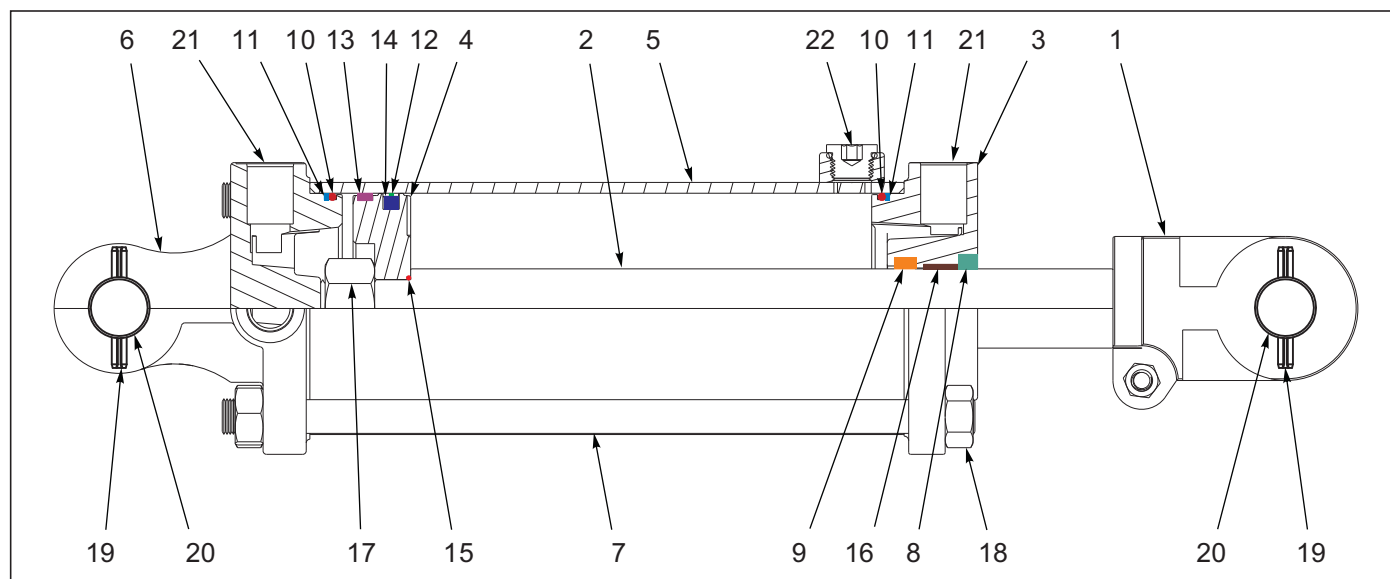


Figure 6-20: Cylinder Assembly 4 x 10 Rephase (Midway) (1-1/4" Clevis Pins)

Cylinder Assembly 4 x 10 Rephase (Midway) (1-1/4" Clevis Pins))

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	247549M	CYL, 4X10, REPHASE 1.25 PIN	
1	229559	ROD CLEVIS-ADI, 1-1/4 PIN, MIDWA	1
2	-----	ROD	1
3	229560	GLAND, 4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	229558	BUTT CLEVIS, 4" BORE, MIDWAY	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226615	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	229561	PACKING KIT, 4" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 8-16)	

Cylinder Assembly 4-1/2 x 30

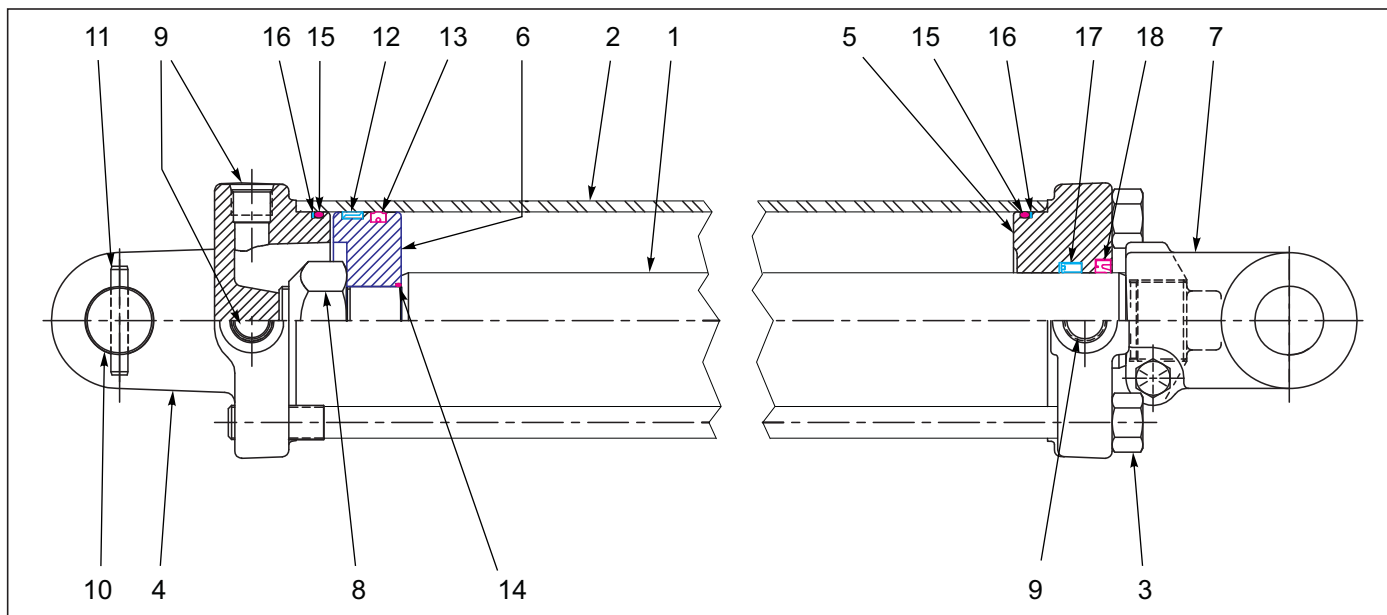


Figure 6-21: Cylinder Assembly 4-1/2 x 30

Cylinder Assembly 4-1/2 x 30

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254306	CYLINDER, 4-1/2 X 30, 2" ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	4
4	254311	BUTT CLEVIS, 4-1/2" BORE, MIDWAY	1
5	254312	GLAND, 4-1/2" BORE, MIDWAY	1
6	----	PISTON	1
7	226605	ROD CLEVIS, ø1-1/4 PIN, MIDWAY	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	3
10	240923	CLEVIS PIN, 1-1/4 HARDEN, MIDWAY	1
11	147072	PIN, SPRING SLOTTED 5/16 X 2	2
12	----	BEARING RING	1
13	----	CROWN SEAL	1
14	----	O- RING	1
15	----	O- RING	2
16	----	BU- WASHER	2
17	----	U- CUP	1
18	----	CANNED WIPER	1
19	254314	PACKING KIT, 4-1/2" BORE, MIDWAY (NOT SHOWN) (INCLUDES ITEMS 12-18)	

Cylinder Assembly 4 x 30 (Prince)

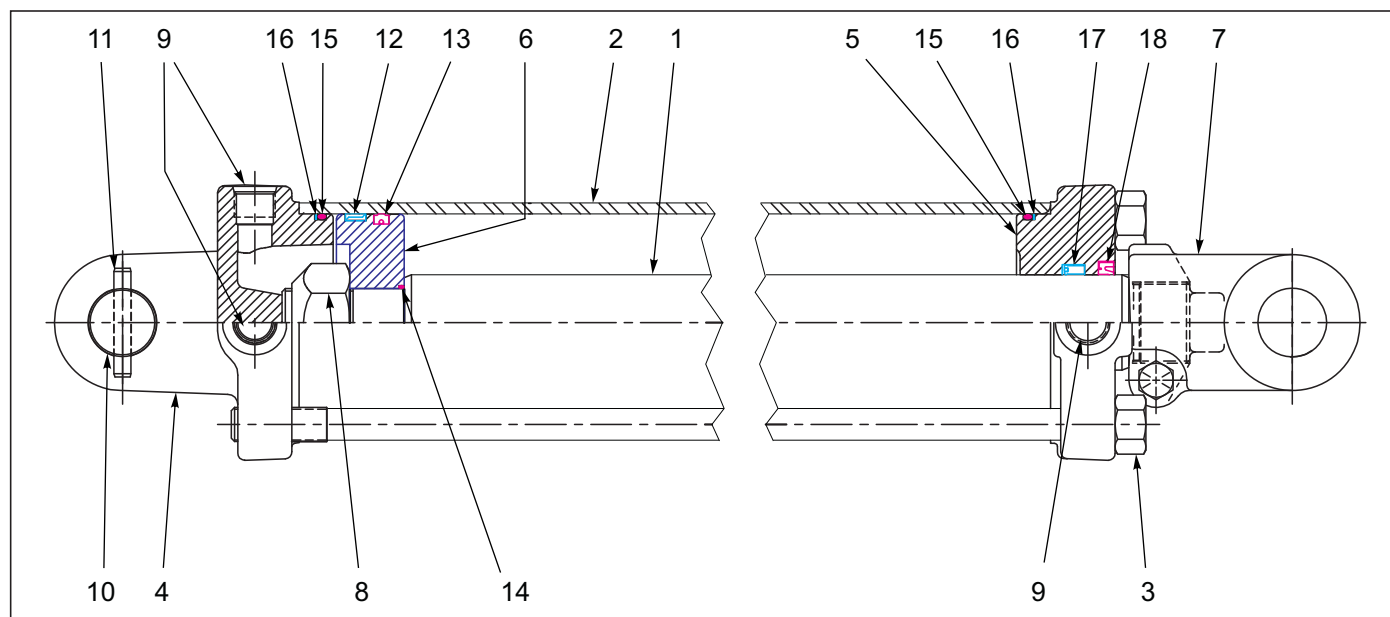


Figure 6-22: Cylinder Assembly 4 x 30 (Prince)

Cylinder Assembly 4 x 30 (Prince)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	140472	CYLINDER 4X30 1-1/2 ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	4
4	142119	BUTT CLEVIS ASSY	1
5	142120	GLAND	1
6	----	PISTON	1
7	100000328	CLEVIS ASSY, 4-1/2X12 CYL	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	3
10	147755	CLEVIS PIN, ϕ 1-1/4 HARD, PRINCE	1
11	111789	PIN, ROLL #190100057 (ϕ 1/4 x 2)	2
12	----	BEARING RING	1
13	----	CROWN SEAL	1
14	----	O- RING	1
15	----	O- RING	2
16	----	BU- WASHER	2
17	----	U- CUP	1
18	----	CANNED WIPER	1
19	142113	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 12-18)	

Cylinder Assembly 4 x 30 (Midway)

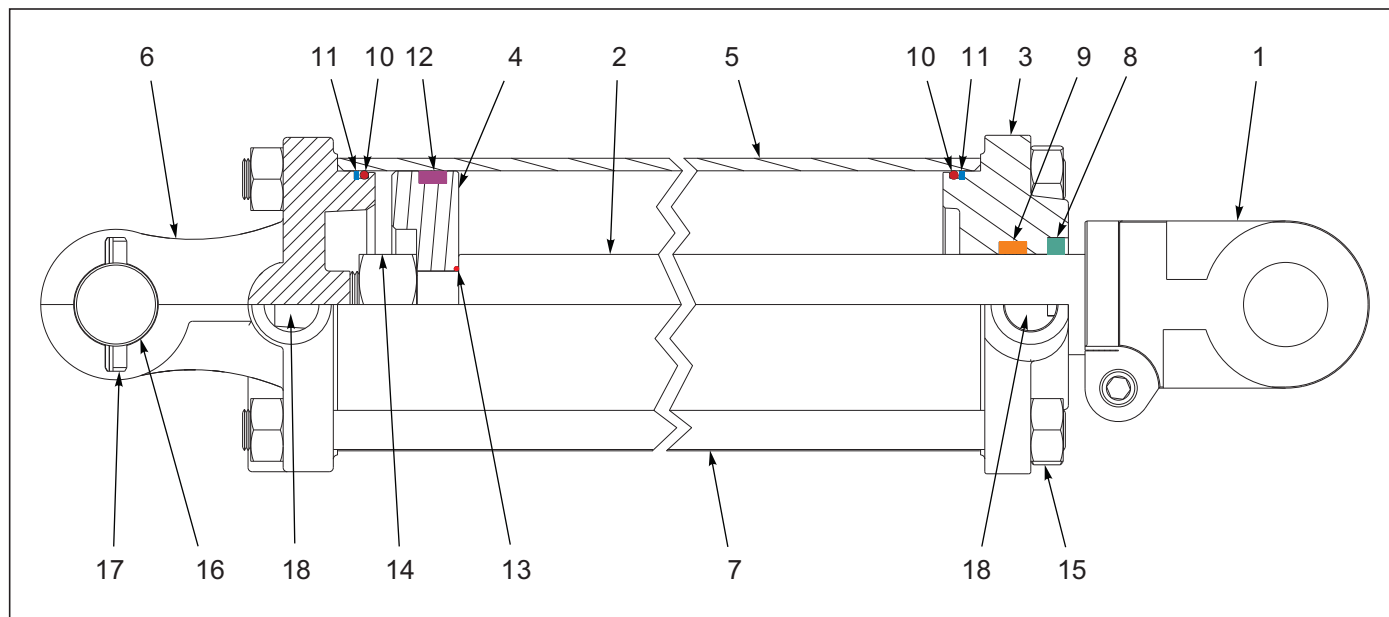


Figure 6-23: Cylinder Assembly 4 x 30 (Midway)

Cylinder Assembly 4 x 30 (Midway)

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

Cylinder Assembly 3-1/2 x 6

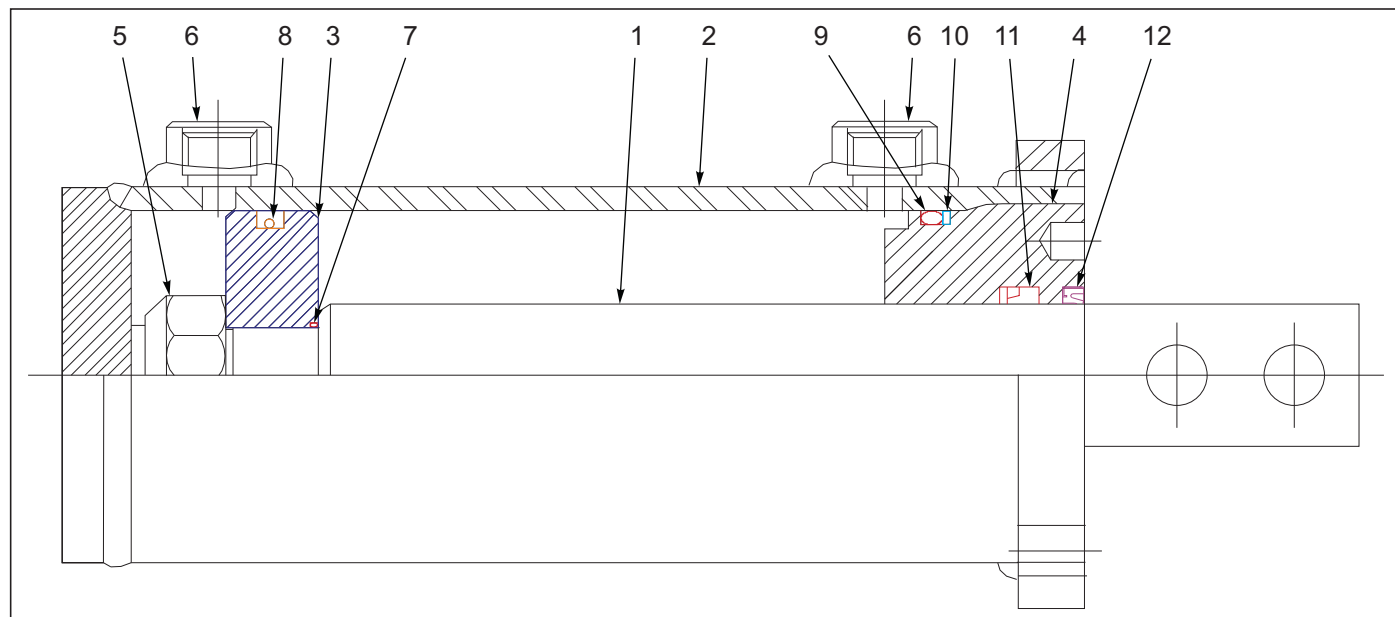


Figure 6-24: Cylinder Assembly 3-1/2 x 6

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

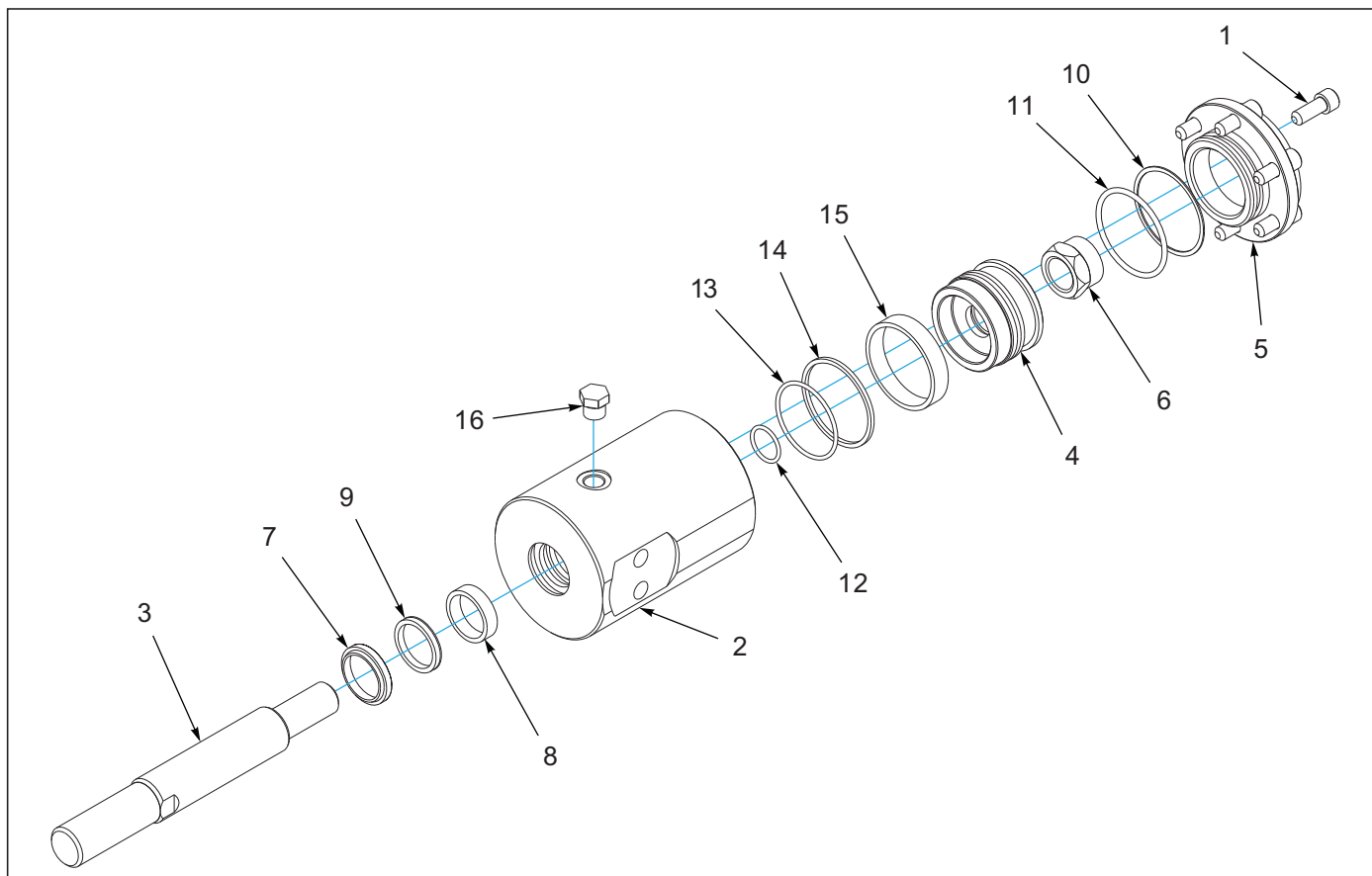


Figure 6-25: Cylinder Assembly 2-1/2 x 2-1/2

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	206671	CYL ASM 2-1/2X2-1/2ST1-1/8THDS	
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 SLFLKG 7/8-14 GRC	1
5	----	CYLINDER, BARREL 2-1/2" STROKE	1
6	----	WIPER, 1-1/4 ROD	1
7	----	WEAR RING, 1-1/4 ROD	1
8	----	U-CUP, 1-1/4 ROD	1
9	----	BACK-UP RING, CAP	1
10	----	O-RING, CAP	1
11	----	O-RING, PISTON	1
12	----	O-RING, PISTON	1
13	----	SEAL, 2-1/2 PISTON	1
14	----	WEAR RING, 2-1/2 PISTON	1
15	206673	ROD 1-1/4 DIA	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 1-1/2 x 1-1/2

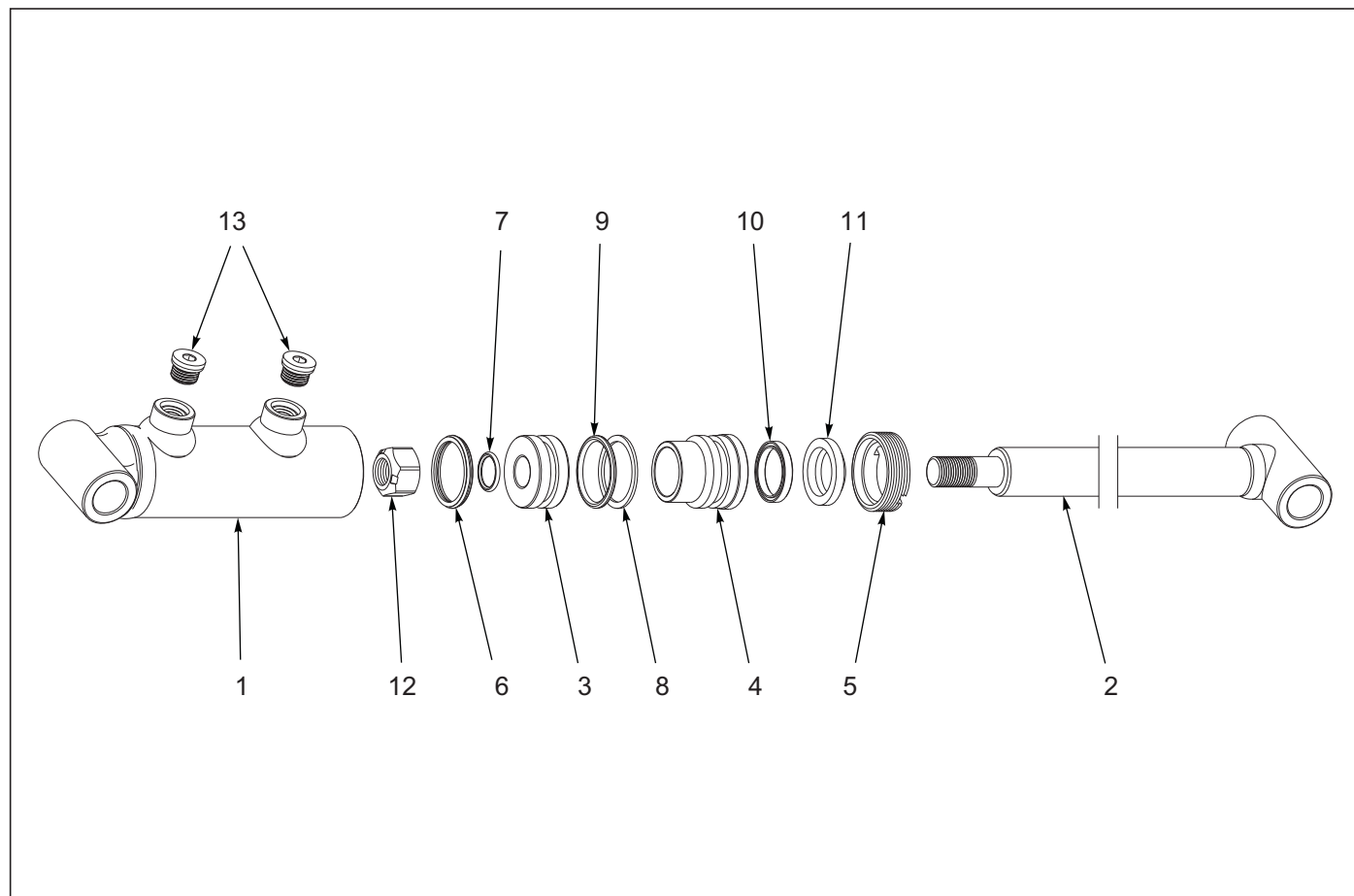


Figure 6-26: Cylinder Assembly 1-1/2 x -1-1/2

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

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

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

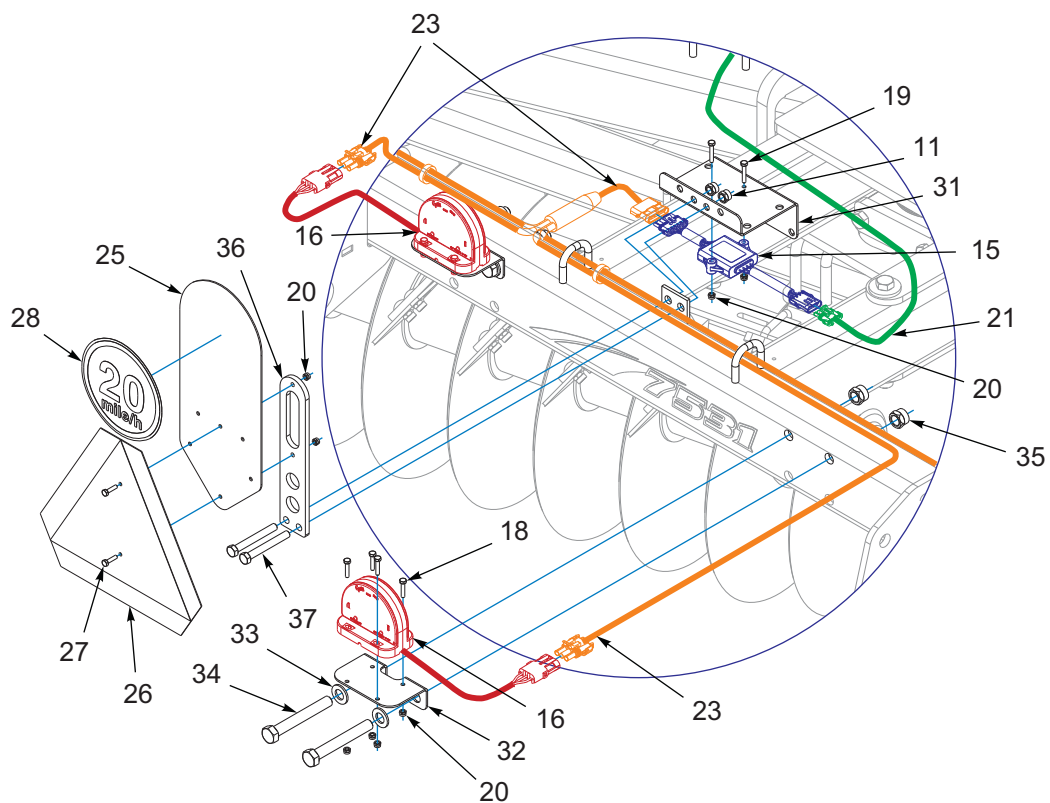
Figure 7-1: Electrical Assembly W/LED Lights (1 of 3)

Table provided for general use.

[illegible]



7531-23'



7531-26'-35'

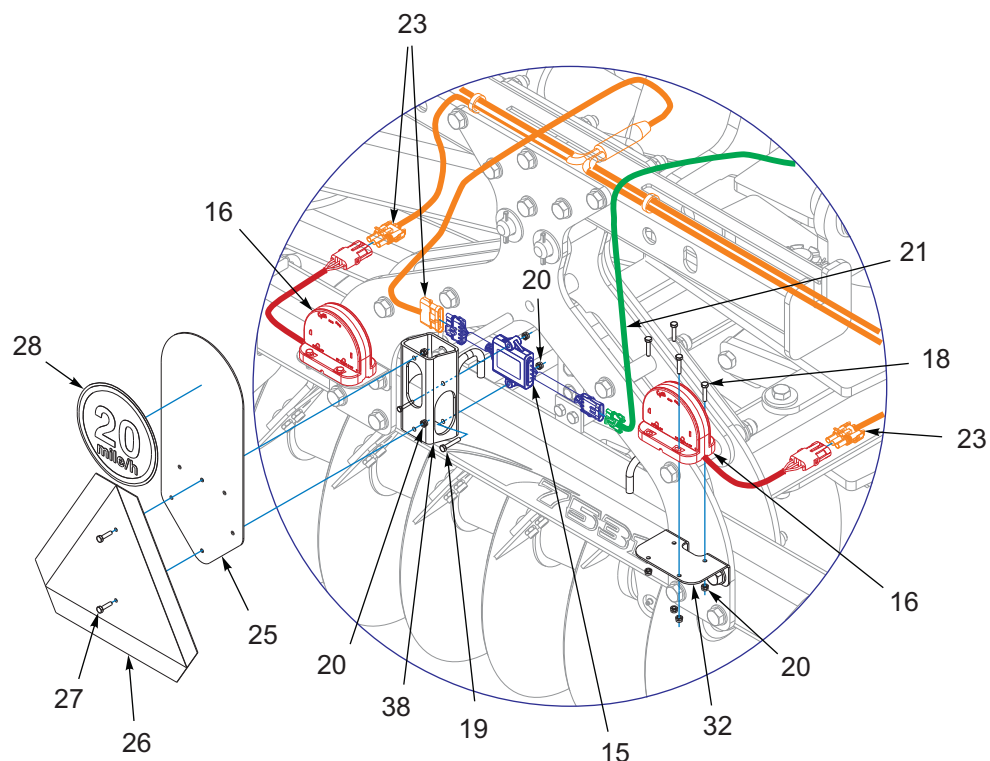


Figure 7-3: Electrical Assembly W/LED Lights (3 of 3)

Electrical Assembly W/LED Lights

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	207929	BRACKET LIGHT LH NC W/REF ASSY (INCLUDES ITEMS 12-14, 39)	1
2	207928	BRACKET LIGHT RH NC W/REF ASSY (INCLUDES ITEMS 12-14, 39)	1
3	213829	PLATE, LIGHT ARM RT	4
4	1-654-010059-21	SCREW,HEX CAP,5/8-11UNCX8 GR5	8
5	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8
6	253584	BRACKET, LIGHT RH W/ REF (SHOWN) (INCLUDES ITEMS 12-14, 40)	1
6	253585	BRACKET, LIGHT LH W/ REF (INCLUDES ITEMS 12-14, 40)	1
7	253583	BRACKET, LIGHT ARM	2
8	107-0018	HHCS 5/8-11X6-1/2LG GR5	6
9	1-861-010032-18	WASHER, FLAT 5/8 N ZP/CD	6
10	179348	U-BOLT 1/2-13X3-1/2X3 ZP	4
11	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
12	528934	REFLECTOR - YELLOW	2
13	528938	STRIPE, ORANGE	2
14	528933	REFLECTOR - RED	2
15	174437	MODULE, AG FLASHER CONTROL	1
16	174435	LAMP, AG RED SINGLE LED	2
17	174436	LAMP, AG AMBER SINGLE LED	2
18	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	16
19	1-654-010047-08	SCREW HX CP,1/4-20UNCX1-1/2G5	2
20	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	20
21	174438	HARNESS, MAIN WARNING LIGHTS	1
22	2-368-010287	HARNESS, STOR-A-WAY (SEE PAGE 2-1)	1
23	174439	HARNESS, REAR WARNING LIGHTS	1
24	2-368-010273	HARNESS, 34 INCH EXT (3 PIN ASSEMBLY)	2
25	224590	MOUNT, SIS DECAL	1
26	70260977	SMV EMBLEM	1
27	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
28	224589	DECAL, SIS 20 MILE/H	1
29	1-796-010004-02	TIE, STRAP,PLASTIC .301X13.38	20
29	105874	TIE,STRAP PLSTC 21.5-24X.301	5
30	219215	EXT HARNESS,WP 2-PIN ASSY	1
31	234869	MOUNT, AG MODULE (MODEL 7531-23')	1
32	253598	MOUNT, TAIL LIGHT	2
33	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD (MODEL 7531-23')	4
34	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5 (MODEL 7531-23')	4
35	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10 (MODEL 7531-23')	4
36	255063	MOUNT, SMV (MODEL 7531-23')	1
37	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2
37	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5 (MODEL 7531-23') (USED WITH OPTIONAL HYDRAULIC ATTACHMENT)	2
38	253597	MOUNT, SMV/MODULE (MODEL 7531-26'-35')	1

Table provided for general use.

[illegible]

Decals

Decals



Figure 8-1: Decals (1 of 2)

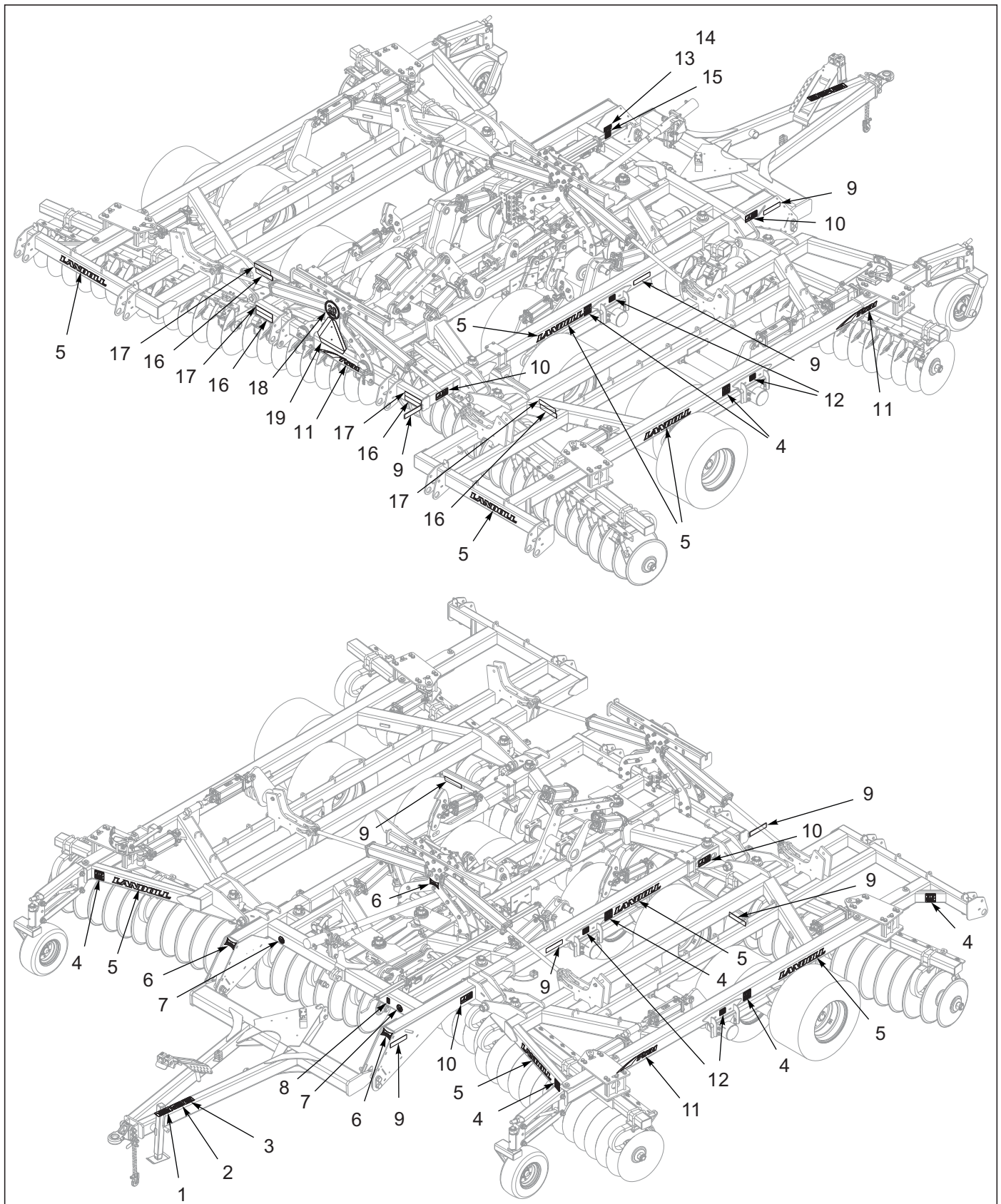


Figure 8-2: Decals (2 of 2)

Decals

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	8-573-010084	DECAL WARNING BEFORE OPERATG	1
2	141597	DECAL, DANGER ELECTROCUTION	1
3	251970	DECAL, HOSE ID 7531	1
4	247227	DECAL, DANGER CRUSHING	8
5	141260	DECAL, LANDOLL,	8
6	141259	DECAL, LANDOLL, YELLOW	3
7	144193	DECAL, SIS 20 MPH	2
8	2-573-010198	DECAL, MEMBER FEMA	1
9	528934	REFLECTOR - YELLOW	8
10	2-573-010037	DECAL, DANGER, WING	4
11	250299	DECAL, 7531	3
12	219776	DECAL, GREASE WALKER	4
13	1-573-010006	PLACARD, NAME	1
14	156010	RIVET, BLIND .156X1/2 GRIP	2
15	232179	DECAL, QR CODE 7500 SERIES	1
16	528933	REFLECTOR - RED	4
17	528938	STRIPE, ORANGE	4
18	224589	DECAL, SIS 20 MILE/H	1
19	70260977	SMV EMBLEM	1

Table provided for general use.

[illegible]

Attachments

STD Round Reel Assembly 7531-23'-29'

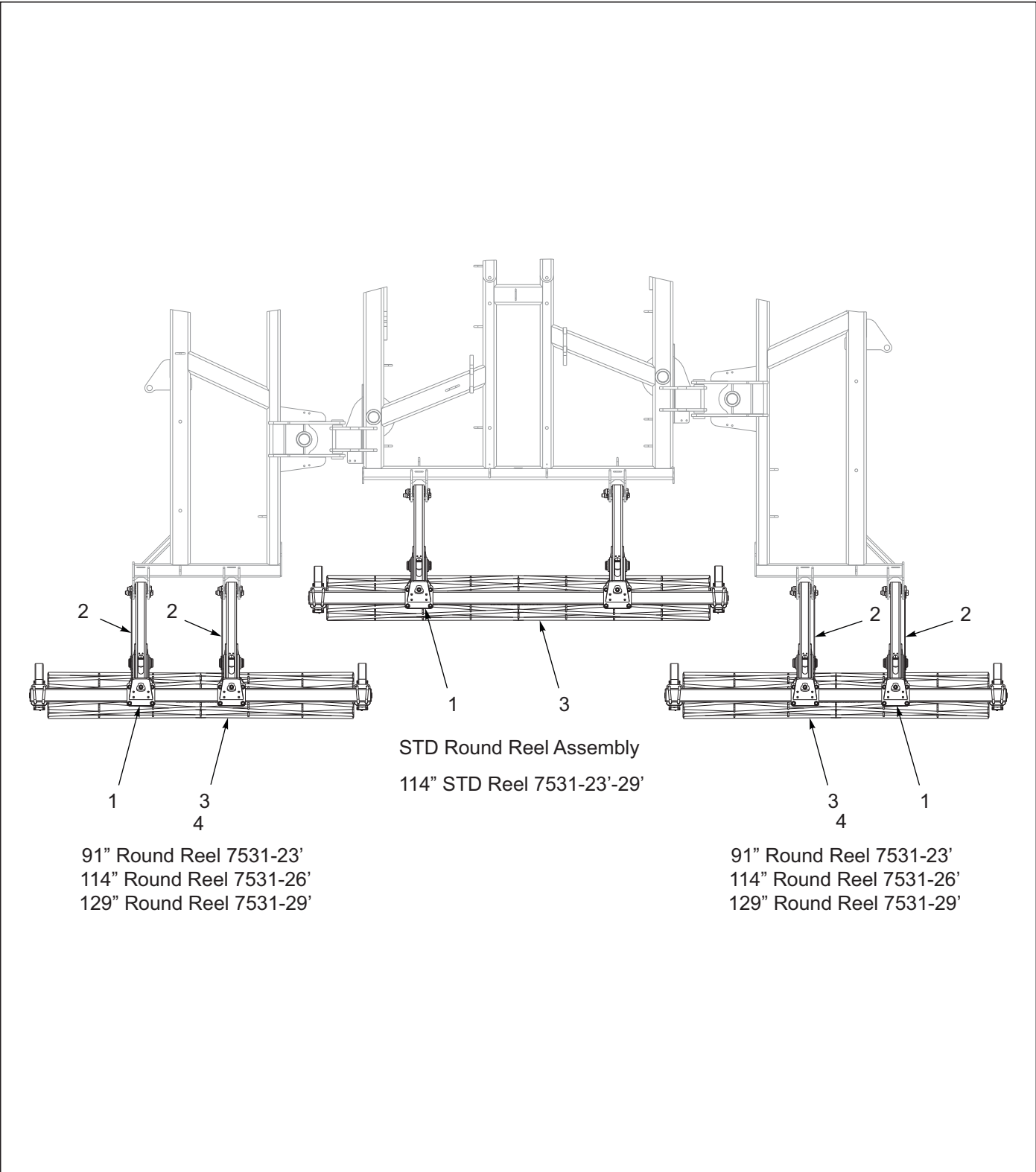


Figure 9-1: STD Round Reel Assembly 7531-23'-29'

STD Round Reel Assembly 7531-23'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	253422	STD CONDITIONER REEL 7531-23	*		
--	253423	STD CONDITIONER REEL 7531-26	*		
--	253424	STD CONDITIONER REEL 7531-29	*		
1	-----	REEL ARM ASSEMBLY-SPRING	--	--	--
2	254947	STOP, REEL ARM	4	4	4
3	154687	COND-REEL/GANGBAR ASSY 114"	1	3	1
4	154686	COND-REEL/GANGBAR ASSY 91"	2	--	--
4	156125	COND-REEL/GANGBAR ASSY 129"	--	--	2

STD Round Reel Assembly 7531-32'-35'

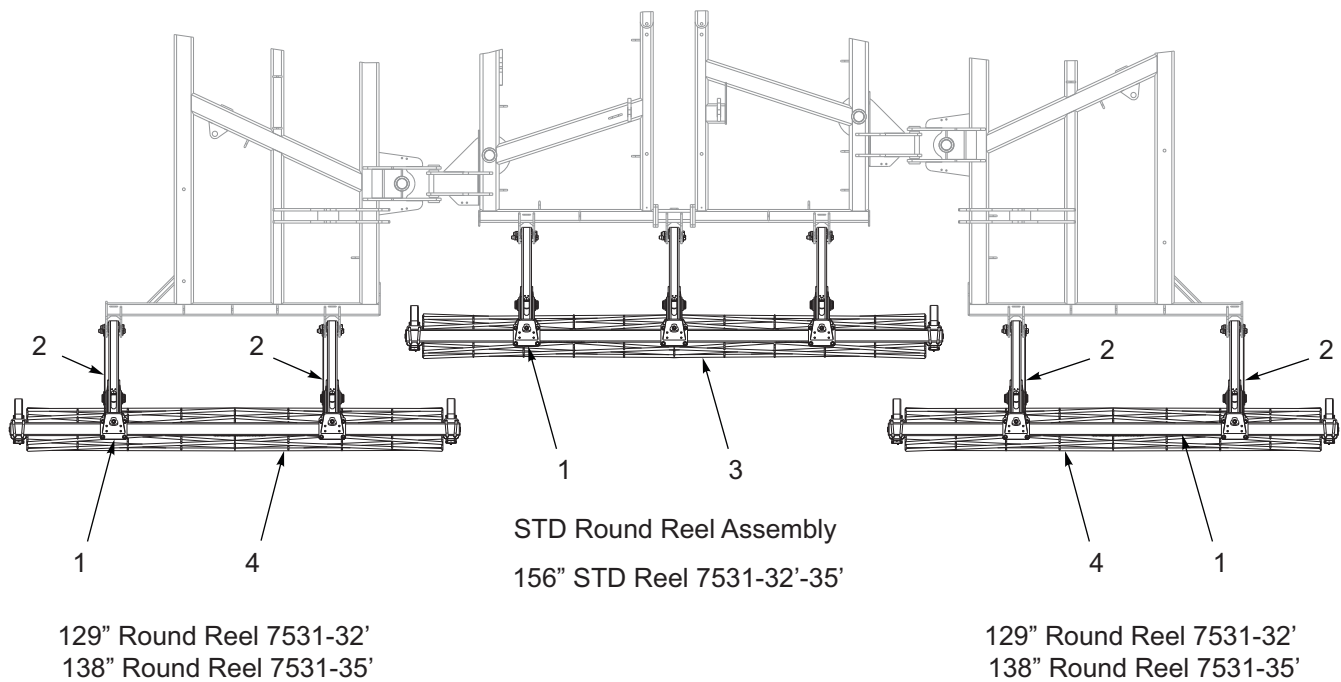


Figure 9-2: STD Round Reel Assembly 7531-32'-35'

STD Round Reel Assembly 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.	
--	253425	STD CONDITIONER REEL 7531-32	*	
--	253426	STD CONDITIONER REEL 7531-35	*	
1	-----	REEL ARM ASSEMBLY-SPRING	--	--
2	254947	STOP, REEL ARM	4	4
3	165127	COND-REEL/GANGBAR ASSY 156"	1	1
4	156125	COND-REEL/GANGBAR ASSY 129"	2	--
4	201765	COND-REEL/GANGBAR ASSY 138"	--	2

Double Round Reel Assembly 7531-23'-29'

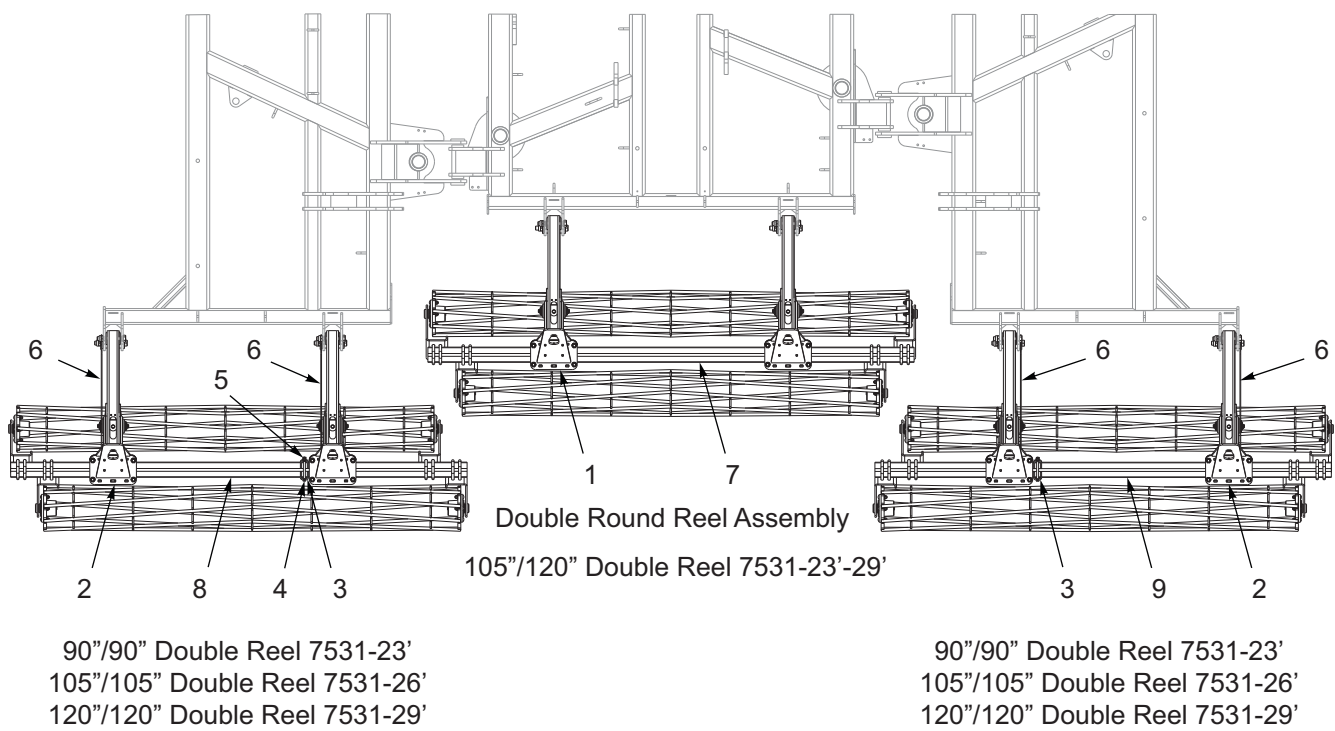


Figure 9-3: Double Round Reel Assembly 7531-23'-29'

Double Round Reel Assembly 7531-23'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	253434	STD DBL RD REEL 7531-23	*					
--	253435	STD DBL RD REEL 7531-26		*				
--	253436	STD DBL RD REEL 7531-29			*			
--	253440	HYD DBL RD REEL 7531-23				*		
--	253441	HYD DBL RD REEL 7531-26					*	
--	253442	HYD DBL RD REEL 7531-29						*
1	-----	REEL ARM ASSEMBLY-SPRING	6	6	6	--	--	--
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	--	6	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4	4	4
7	254966	DOUBLE RD REEL ASSY, 105/120 (SEE PAGE 9-37)	1	1	1	1	1	1
8	254969	DOUBLE RD REEL ASSY, 90/90	1	--	--	1	--	--
8	254970	DOUBLE RD REEL ASSY, 105/105	--	1	--	--	1	--
8	254971	DOUBLE RD REEL ASSY, 120/120	--	--	1	--	--	1
9	254975	DOUBLE RD REEL ASSY, 90/90	1	--	--	1	--	--
9	254976	DOUBLE RD REEL ASSY, 105/105	--	1	--	--	1	--
9	254977	DOUBLE RD REEL ASSY, 120/120	--	--	1	--	--	1

Double Flat Assembly 7531-23'-29'

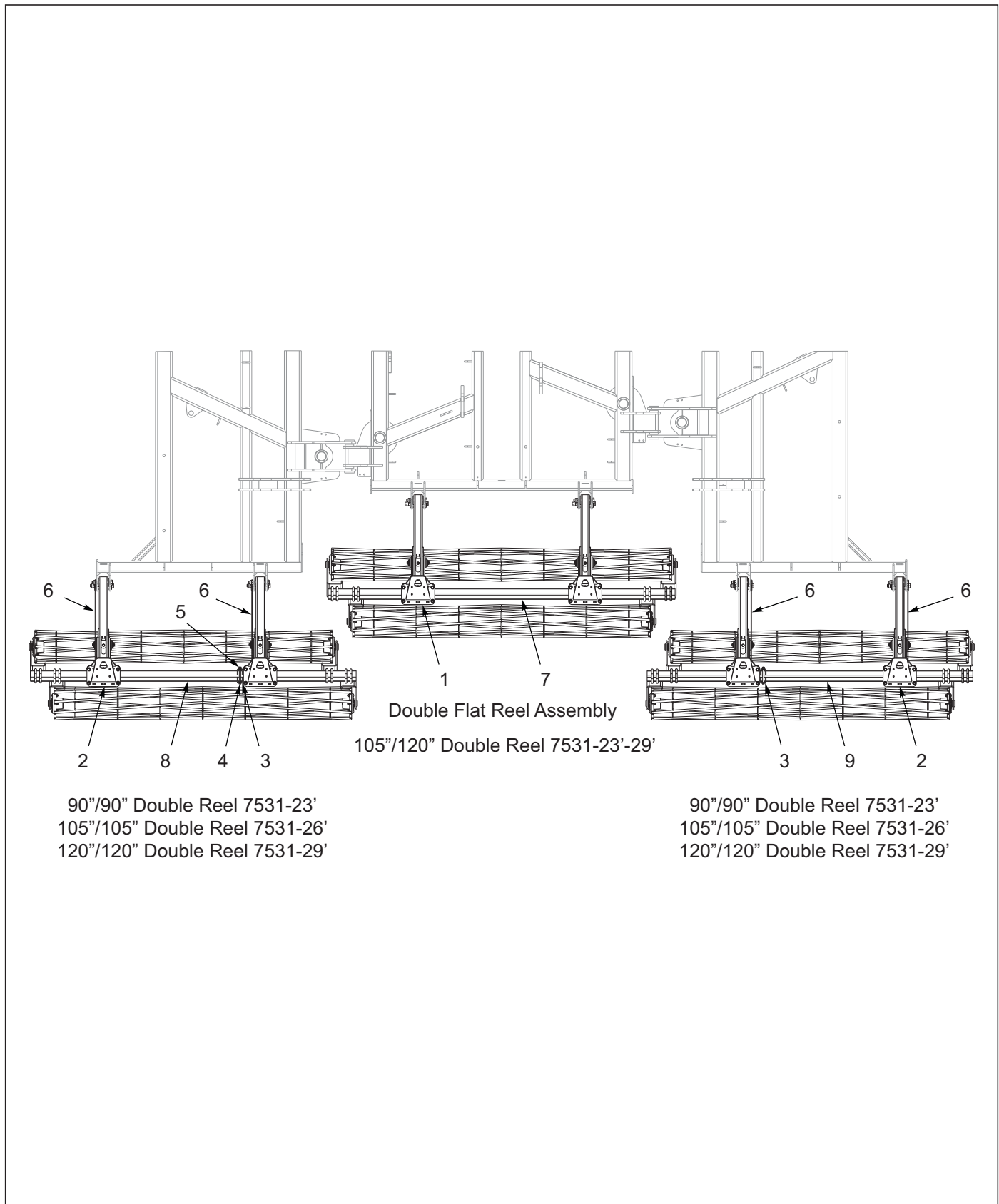


Figure 9-4: Double Flat Reel Assembly 7531-23'-29'

Double Flat Reel Assembly 7531-23'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	253446	STD DBL FLAT REEL 7531-23	*					
--	253447	STD DOUBLE FLAT REEL, 7531-26		*				
--	253448	STD DOUBLE FLAT REEL 7531-29			*			
--	253452	HYD DBL FLAT REEL 7531-23				*		
--	253453	HYD DOUBLE FLAT REEL, 7531-26					*	
--	253454	HYD DOUBLE FLAT REEL 7531-29						*
1	-----	REEL ARM ASSEMBLY-SPRING	6	6	6	--	--	--
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	--	6	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4	4	4
7	254985	DOUBLE FLAT REEL ASSY 105/120 (SEE PAGE 9-37)	1	1	1	1	1	1
8	254988	DOUBLE FLAT REEL ASSY, 90/90	1	--	--	1	--	--
8	254989	DOUBLE FLAT REEL ASSY 105/105	--	1	--	--	1	--
8	254990	DOUBLE FLAT REEL ASSY 120/120	--	--	1	--	--	1
9	254994	DOUBLE FLAT REEL ASSY, 90/90	1	--	--	1	--	--
9	254995	DOUBLE FLAT REEL ASSY 105/105	--	1	--	--	1	--
9	254996	DOUBLE FLAT REEL ASSY 120/120	--	--	1	--	--	1

Double Round Reel Assembly 7531-32'-35'

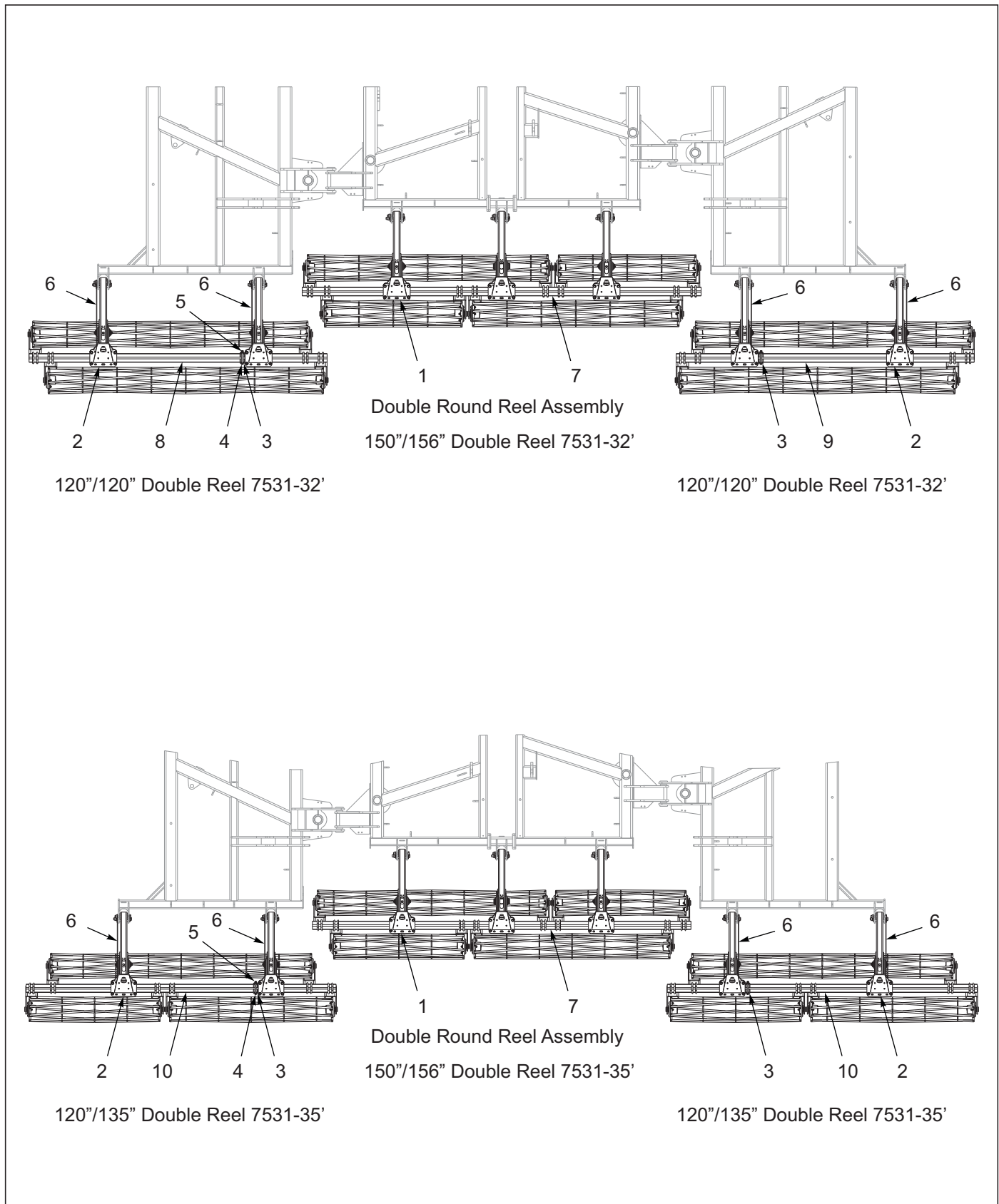


Figure 9-5: Double Round Reel Assembly 7531-32'-35'

Double Round Reel Assembly 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.			
--	253437	STD DBL RD REEL 7531-32	*			
--	253438	STD DBL RD REEL, 7531-35	*			
--	253443	HYD DBL RD REEL 7531-32	*			
--	253444	HYD DBL RD REEL, 7531-35	*			
1	-----	REEL ARM ASSEMBLY-SPRING	7	7	1	1
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4
7	254981	DOUBLE RD REEL ASSY, 150/165	1	1	1	1
8	254971	DOUBLE RD REEL ASSY, 120/120	1	--	1	--
9	254977	DOUBLE RD REEL ASSY, 120/120	1	--	1	--
10	254979	DOUBLE RD REEL ASSY, 120/135	--	2	--	2

Double Flat Reel Assembly 7531-32'-35'

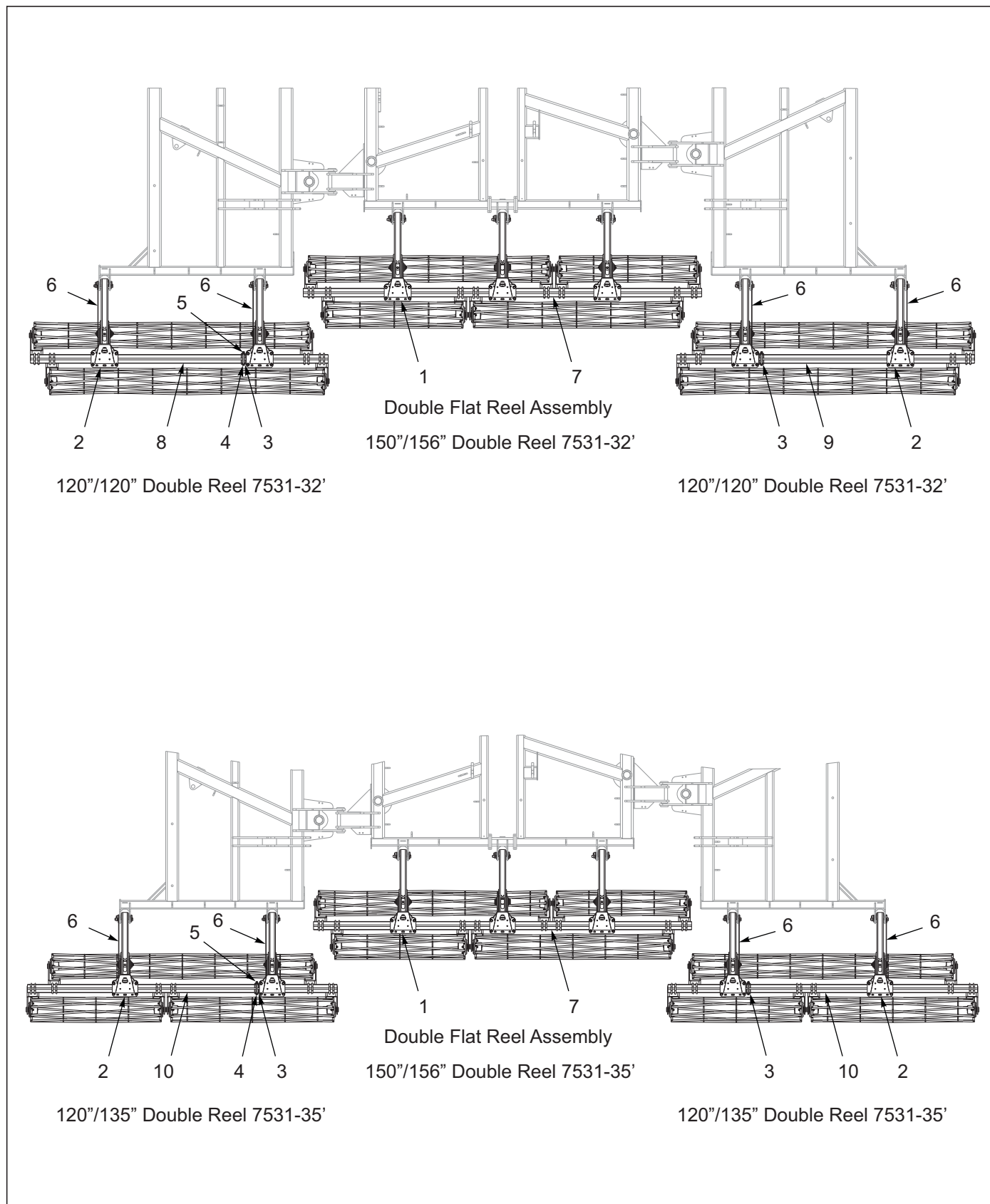


Figure 9-6: Double Flat Reel Assembly 7531-32'-35'

Double Flat Reel Assembly 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.			
--	253449	STD DOUBLE FLAT RL 7531-32	*			
--	253450	STD DBL FLAT REEL 7531-35		*		
--	253455	HYD DOUBLE FLAT RL 7531-32			*	
--	253456	HYD DBL FLAT REEL 7531-35				*
1	-----	REEL ARM ASSEMBLY-SPRING	7	7	1	1
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4
7	255000	DOUBLE FLAT REEL ASSY, 150/165	1	1	1	1
8	254990	DOUBLE FLAT REEL ASSY 120/120	1	--	1	--
9	254996	DOUBLE FLAT REEL ASSY 120/120	1	--	1	--
10	254998	DOUBLE FLAT REEL ASSY, 120/135	--	2	--	2

Double Flat/Round Reel Assembly 7531-23'-29'

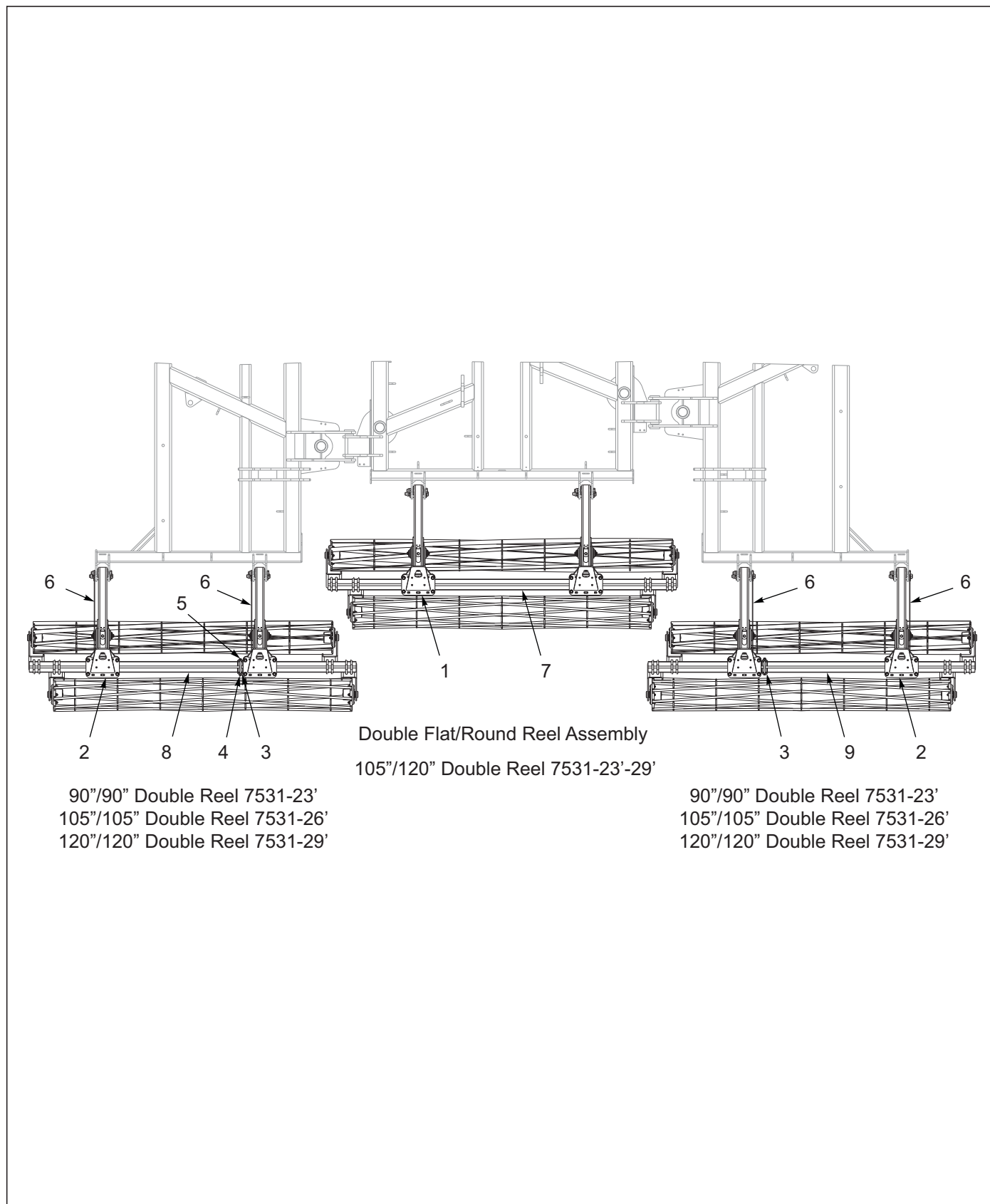


Figure 9-7: Double Flat/ Round Reel Assembly 7531-23'-29'

Double Flat/Round Reel Assembly 7531-23'-29'

ITEM	PART NUMBER	DESCRIPTION	QTY.					
--	255084	STD DBL FLAT/RD REEL 7531-23	*					
--	255085	STD DBL FLAT/RD REEL 7531-26		*				
--	255086	STD DBL FLAT/RD REEL 7531-29			*			
--	255090	HYD DBL FLAT/RD REEL 7531-23				*		
--	255091	HYD DBL FLAT/RD REEL 7531-26					*	
--	255092	HYD DBL FLAT/RD REEL 7531-29						*
1	-----	REEL ARM ASSEMBLY-SPRING	6	6	6	--	--	--
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	--	6	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4	4	4
7	255018	DOUBLE REEL, FLAT/RD 105/120	1	1	1	1	1	1
8	255010	DOUBLE REEL FT/RD ASSY, 90/90	1	--	--	1	--	--
8	255011	DOUBLE REEL FT/RD ASSY 105/105	--	1	--	--	1	--
8	255012	DOUBLE REEL,FT/RD ASSY120/120	--	--	1	--	--	1
9	255015	DOUBLE REEL FT/RD ASSY, 90/90	1	--	--	1	--	--
9	255016	DOUBLE REEL FT/RD ASSY 105/105	--	1	--	--	1	--
9	255017	DOUBLE REEL,FT/RD ASSY120/120	--	--	1	--	--	1

Double Flat/Round Reel Assembly 7531-32'-35'

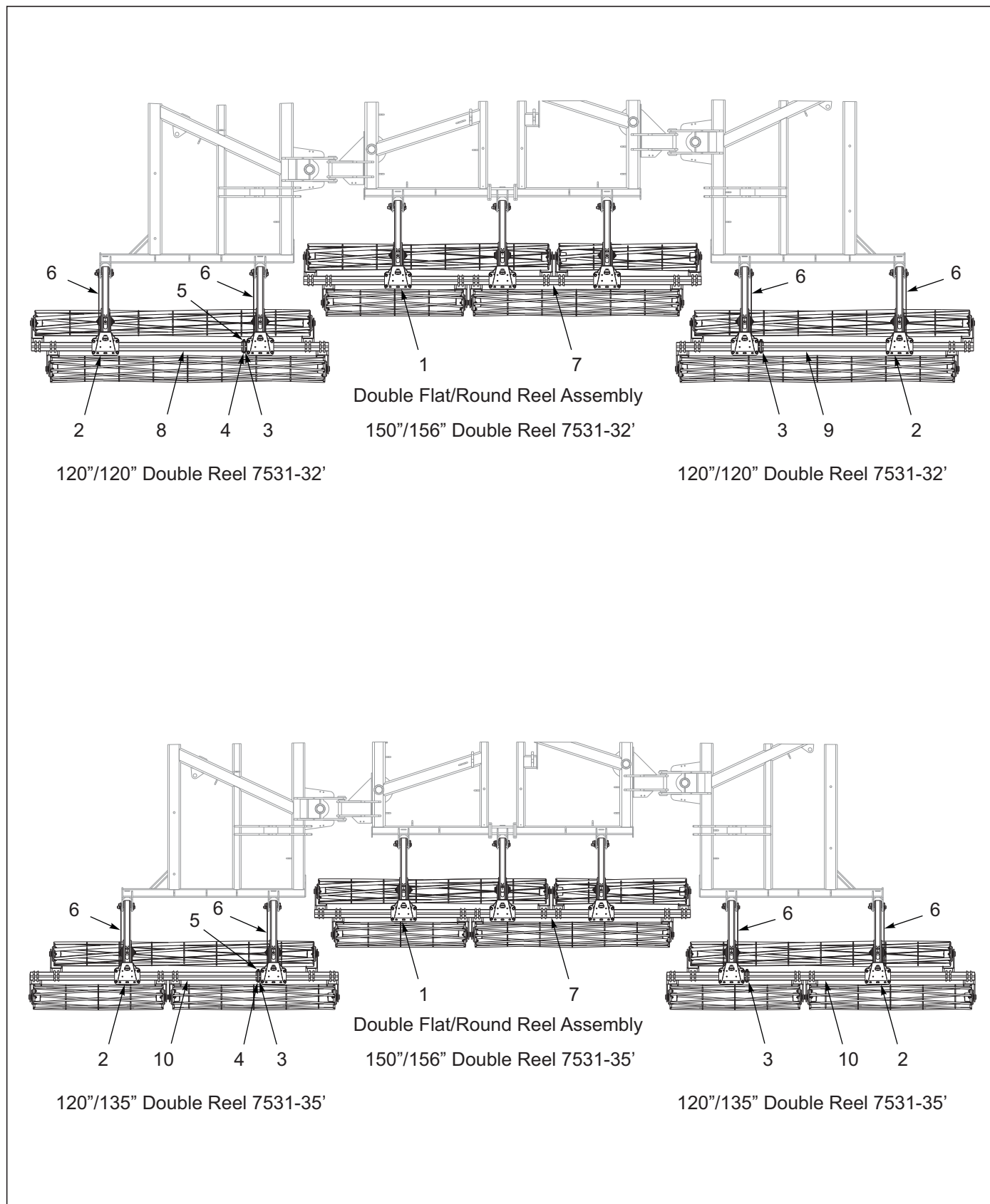


Figure 9-8: Double Flat/Round Reel Assembly 7531-32'-35'

Double Flat/Round Reel Assembly 7531-32'-35'

ITEM	PART NUMBER	DESCRIPTION	QTY.			
--	255087	STD DBL FLAT/RD REEL 7531-32	*			
--	255088	STD DBL FLAT/RD REEL 7531-35	*			
--	255093	HYD DBL FLAT/RD REEL 7531-32	*			
--	255094	HYD DBL FLAT/RD REEL 7531-35	*			
1	-----	REEL ARM ASSEMBLY-SPRING	7	7	1	1
2	-----	REEL ARM ASSEMBLY-HYDRAULIC	--	--	6	6
3	191487	CLAMP, TUBE 3X3	4	4	4	4
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	4	4	4	4
5	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4
6	254947	STOP, REEL ARM	4	4	4	4
7	255021	DOUBLE REEL,FT/RD ASSY150/165	1	1	1	1
8	255012	DOUBLE REEL,FT/RD ASSY120/120	1	--	1	--
9	255017	DOUBLE REEL,FT/RD ASSY120/120	1	--	1	--
10	255019	DOUBLE REEL, FLAT/RD 120/135	--	2	--	2

Std Single Arm Assembly

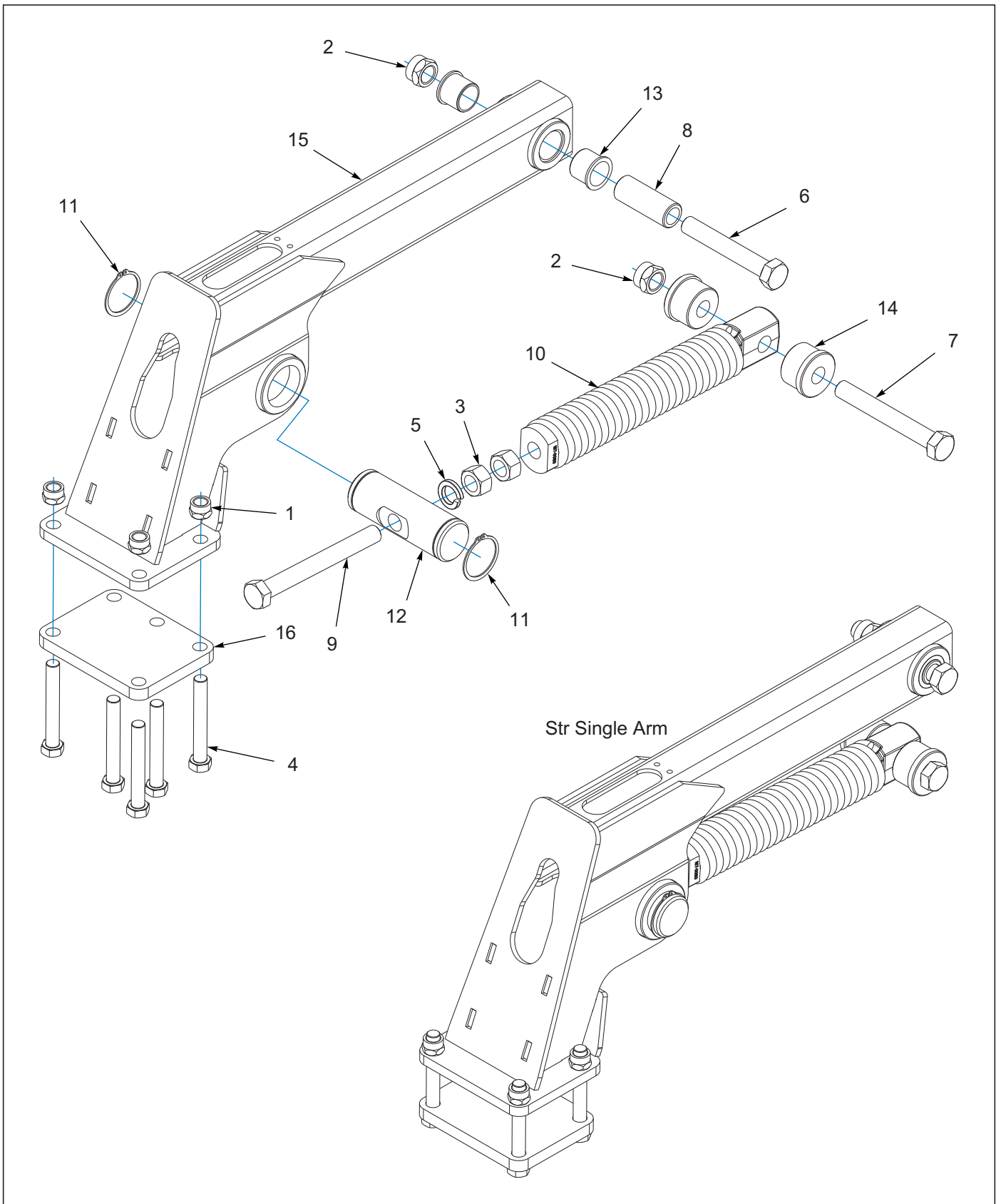


Figure 9-9: Std Single Arm Assembly

Std Single Arm Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	2
4	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
7	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
8	152209	BUSHING, PIVOT 1-1/2	1
9	152210	BOLT, ADJ, 1 X 9	1
10	158795	SPRING ASSY, 17"	1
11	158896	SNAP RING, 2-1/2 SHAFT	2
12	160199	PIN, ADJ 7-/14 W/SNAP RING	1
13	240687	BEARING, FLANGE 1-1/2	2
14	254938	SPRING GUIDE	2
15	254951	ARM, SINGLE REEL	1
16	255067	PLATE, GANGBAR MOUNT	1

Std Single Arm Assembly

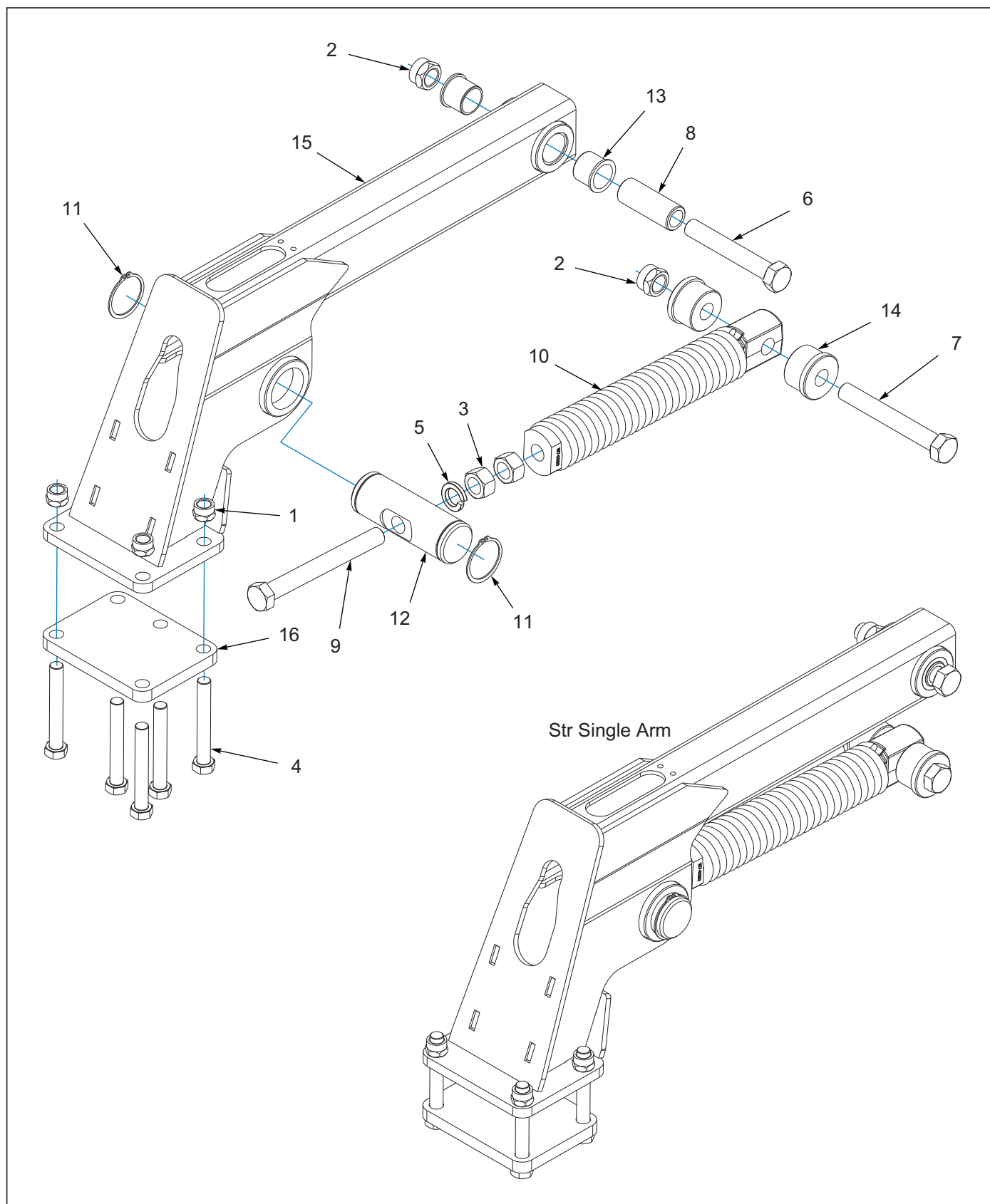


Figure 9-10: Std Single Arm Assembly

Std Single Arm Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	2
4	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
7	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
8	152209	BUSHING, PIVOT 1-1/2	1
9	152210	BOLT, ADJ, 1 X 9	1
10	158795	SPRING ASSY, 17"	1
11	158896	SNAP RING, 2-1/2 SHAFT	2
12	160199	PIN, ADJ 7-/14 W/SNAP RING	1
13	240687	BEARING, FLANGE 1-1/2	2
14	254938	SPRING GUIDE	2
15	254951	ARM, SINGLE REEL	1
16	255067	PLATE, GANGBAR MOUNT	1

Std Single Arm W/Stop Assembly

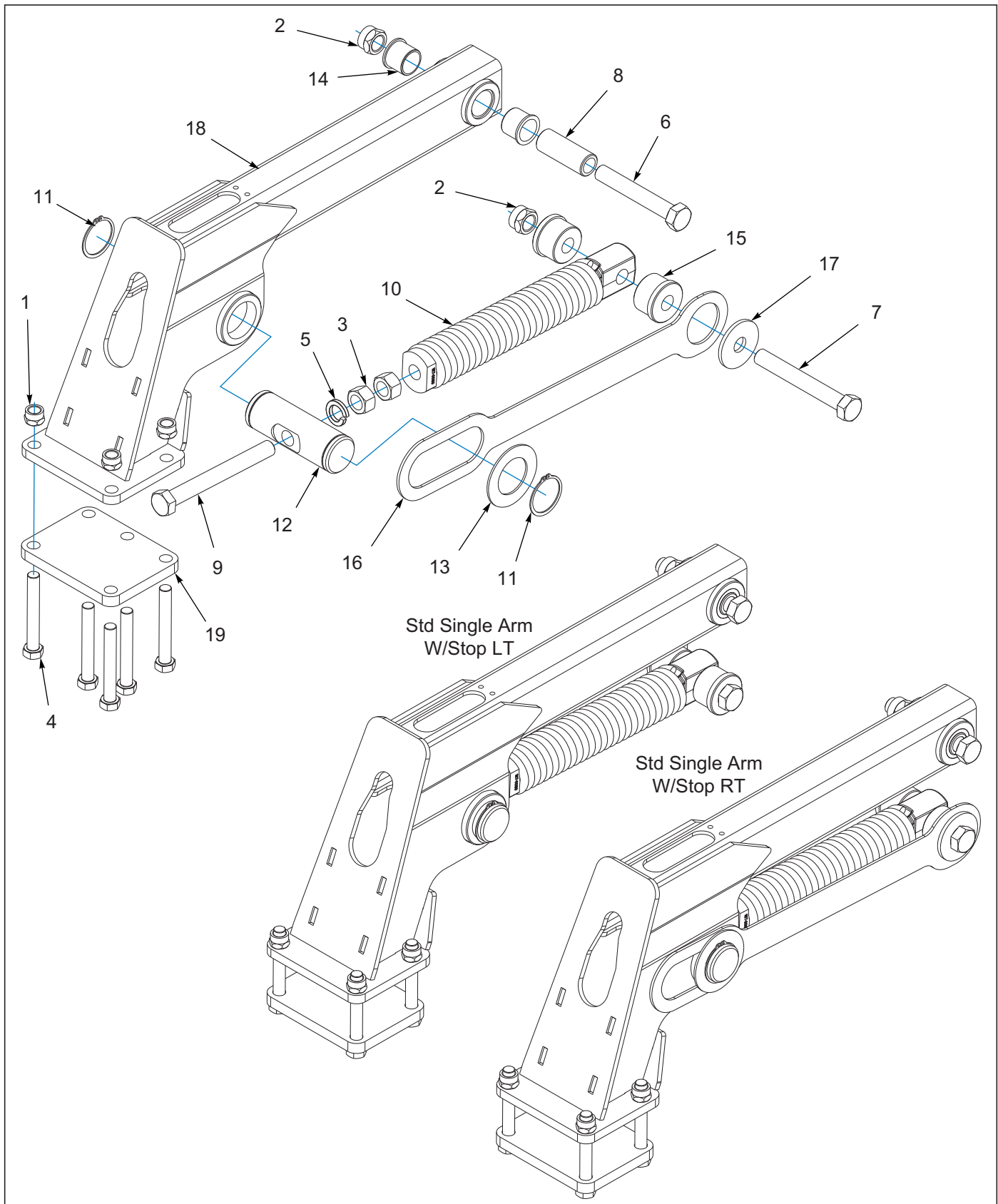


Figure 9-11: STD Single Arm W/Stop Assembly

Std Single Arm W/Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	2
4	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
7	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
8	152209	BUSHING, PIVOT 1-1/2	1
9	152210	BOLT, ADJ, 1 X 9	1
10	158795	SPRING ASSY, 17"	1
11	158896	SNAP RING, 2-1/2 SHAFT	2
12	160199	PIN, ADJ 7-/14 W/SNAP RING	1
13	164563	WASHER, THRUST 2-1/2	1
14	240687	BEARING, FLANGE 1-1/2	2
15	254938	SPRING GUIDE	2
16	254947	STOP, REEL ARM	1
17	254948	PLATE, WASHER 1"	1
18	254951	ARM, SINGLE REEL	1
19	255067	PLATE, GANGBAR MOUNT	1

Hydraulic Single Arm Assembly

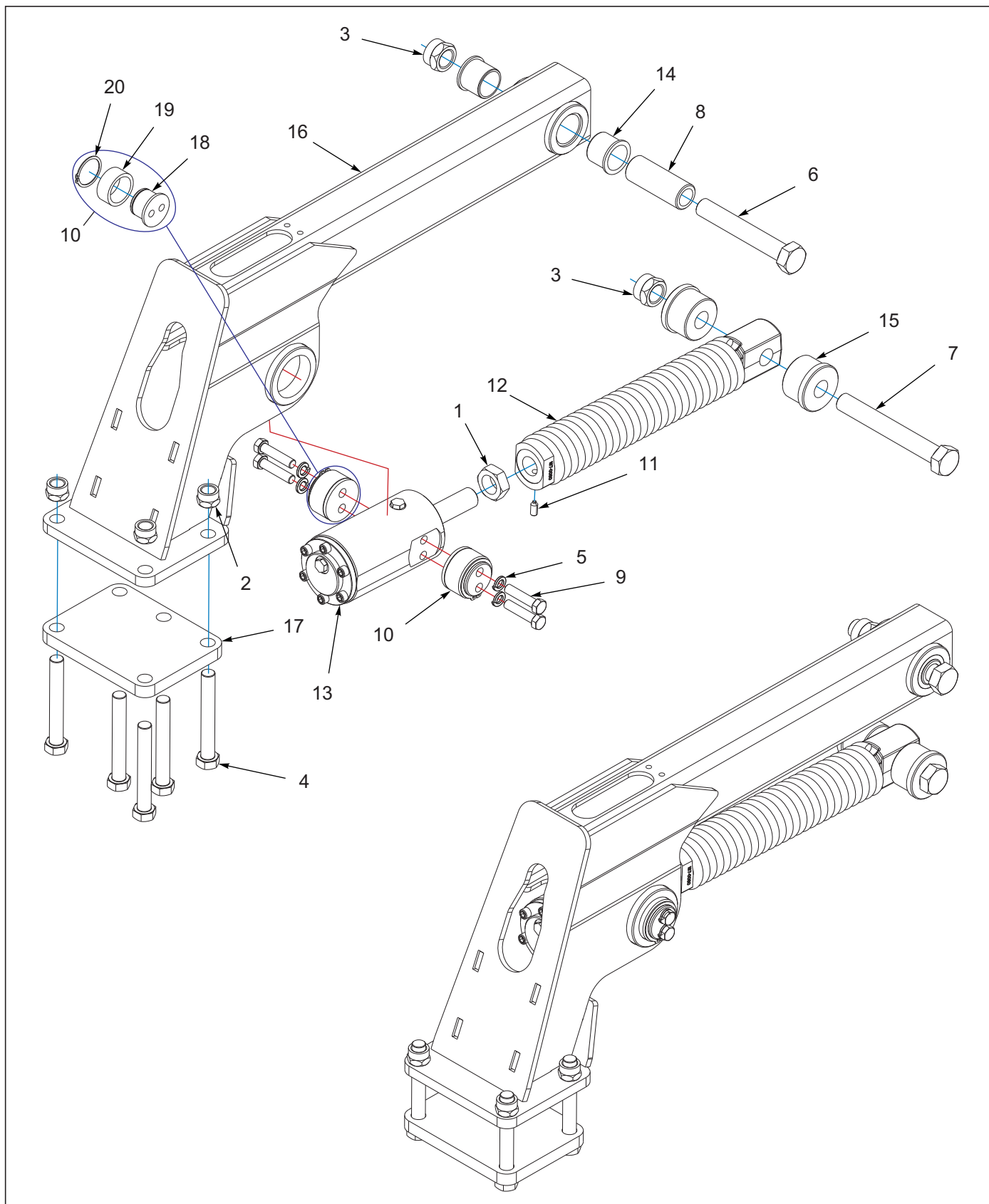


Figure 9-12: Hydraulic Single Arm Assembly

Hydraulic Single Arm Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-511-010002-11	NUT,HEX JAM,1-1/8-12 UNF,GR2	1
2	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
4	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
5	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
7	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
8	152209	BUSHING, PIVOT 1-1/2	1
9	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
10	198319	ASSY, TRUN MT 1-5/8 NO WASHER	2
11	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
12	206652	SPRING ASSY 17" 1-1/8 THD	1
13	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM	1
14	240687	BEARING, FLANGE 1-1/2	2
15	254938	SPRING GUIDE	2
16	254951	ARM, SINGLE REEL	1
17	255067	PLATE, GANGBAR MOUNT	1
18	188528	TRUNION, CYLINDER	1
19	188531	TRUNION, BEARING	1
20	188530	SNAP RING, 2 SHAFT	1

Hydraulic Single Arm W/Stop Assembly

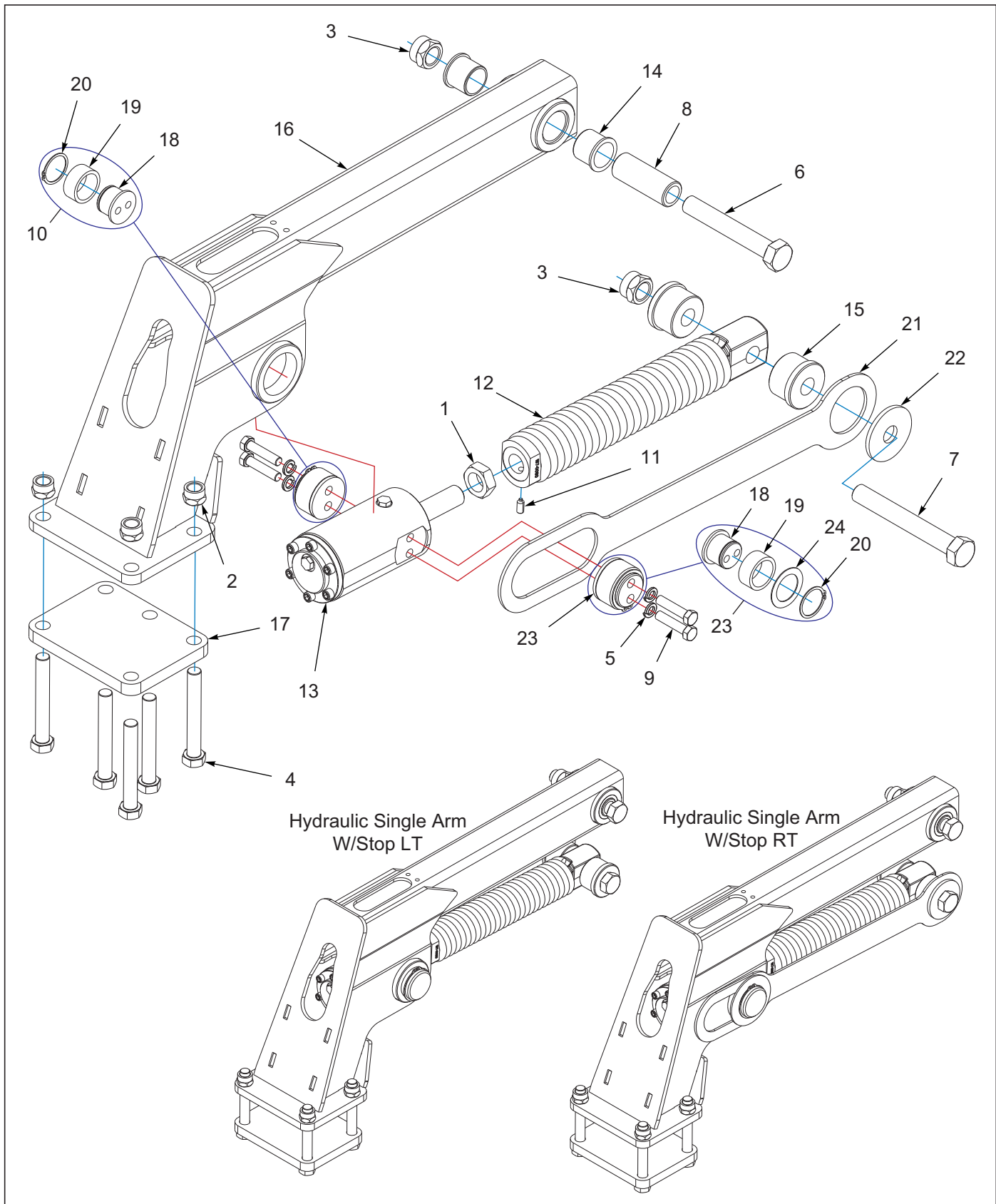


Figure 9-13: Hydraulic Single Arm W/Stop Assembly

Hydraulic Single Arm W/Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-511-010002-11	NUT,HEX JAM,1-1/8-12 UNF,GR2	1
2	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	5
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
4	1-654-010087-16	SCREW,HEX CAP,3/4-16X5.50 GR8	5
5	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
7	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
8	152209	BUSHING, PIVOT 1-1/2	1
9	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
10	198319	ASSY, TRUN MT 1-5/8 NO WASHER	2
11	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
12	206652	SPRING ASSY 17" 1-1/8 THD	1
13	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM	1
14	240687	BEARING, FLANGE 1-1/2	2
15	254938	SPRING GUIDE	2
16	254951	ARM, SINGLE REEL	1
17	255067	PLATE, GANGBAR MOUNT	1
18	188528	TRUNION, CYLINDER	1
19	188531	TRUNION, BEARING	1
20	188530	SNAP RING, 2 SHAFT	1
21	254947	STOP, REEL ARM	1
22	254948	PLATE, WASHER 1"	1
23	198321	ASSY, TRUNION MOUNT 1-5/8"	1
24	109895	WASHER,3ODX2-1/16X14GA	1

Std Double Arm Assembly

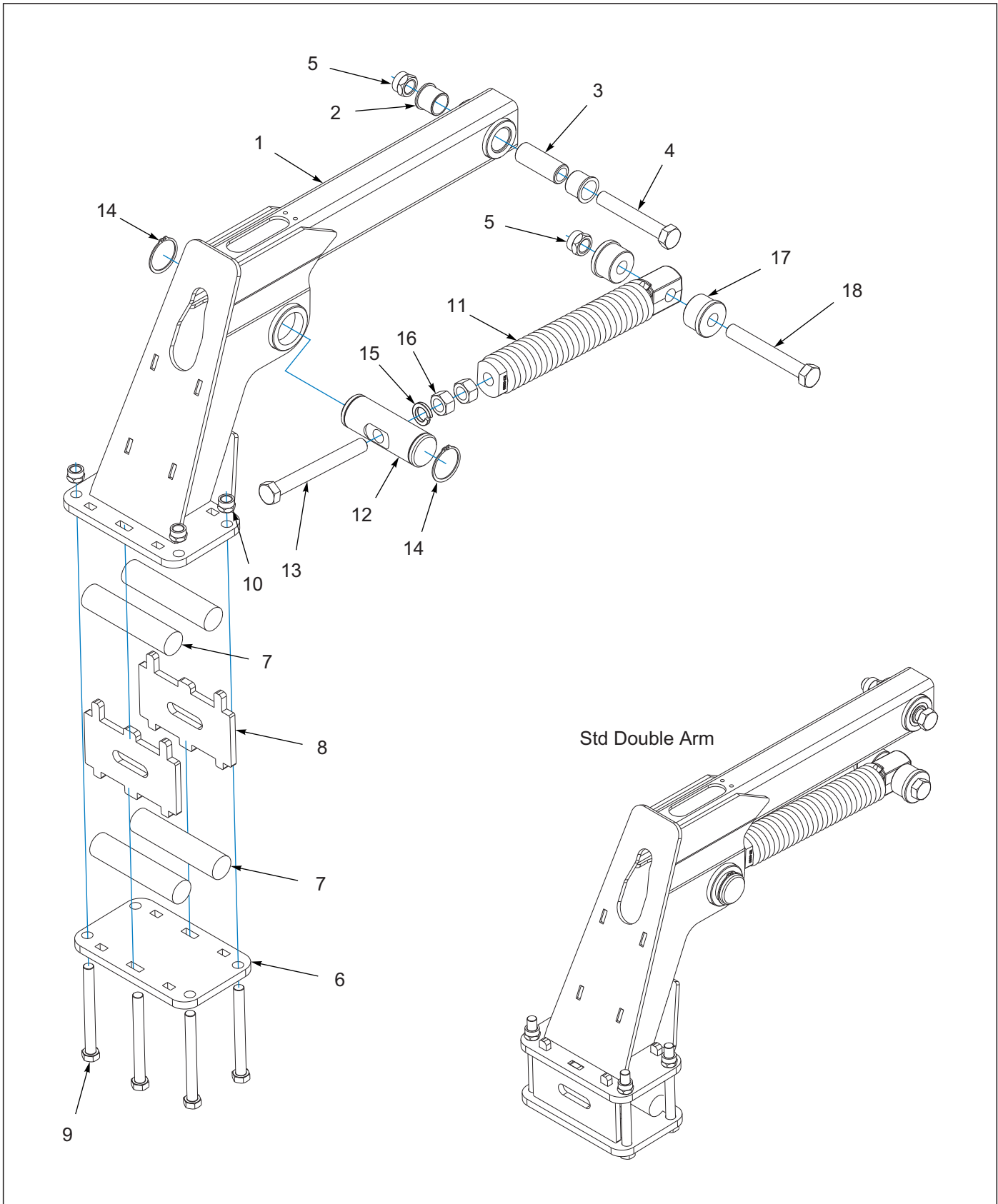


Figure 9-14: Std Double Arm Assembly

Std Double Arm Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	254930	ARM, DOUBLE REEL	1
2	240687	BEARING, FLANGE 1-1/2	2
3	152209	BUSHING, PIVOT 1-1/2	1
4	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
5	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
6	254946	PLATE, BOTTOM GBAR MT	1
7	203525	SPRING-TORSION, RUBBER, 1-3/4	4
8	254945	PLATE, FT/RR GANGBAR	2
9	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	4
10	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
11	206652	SPRING ASSY 17" 1-1/8 THD	1
12	160199	PIN, ADJ 7-/14 W/SNAP RING	1
13	152210	BOLT, ADJ, 1 X 9	1
14	158896	SNAP RING, 2-1/2 SHAFT	2
15	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1
16	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	2
17	254938	SPRING GUIDE	2
18	100856	SCREW,HHCS,1-8X7-1/2 GR5	1

Std Double Arm W/Stop Assembly

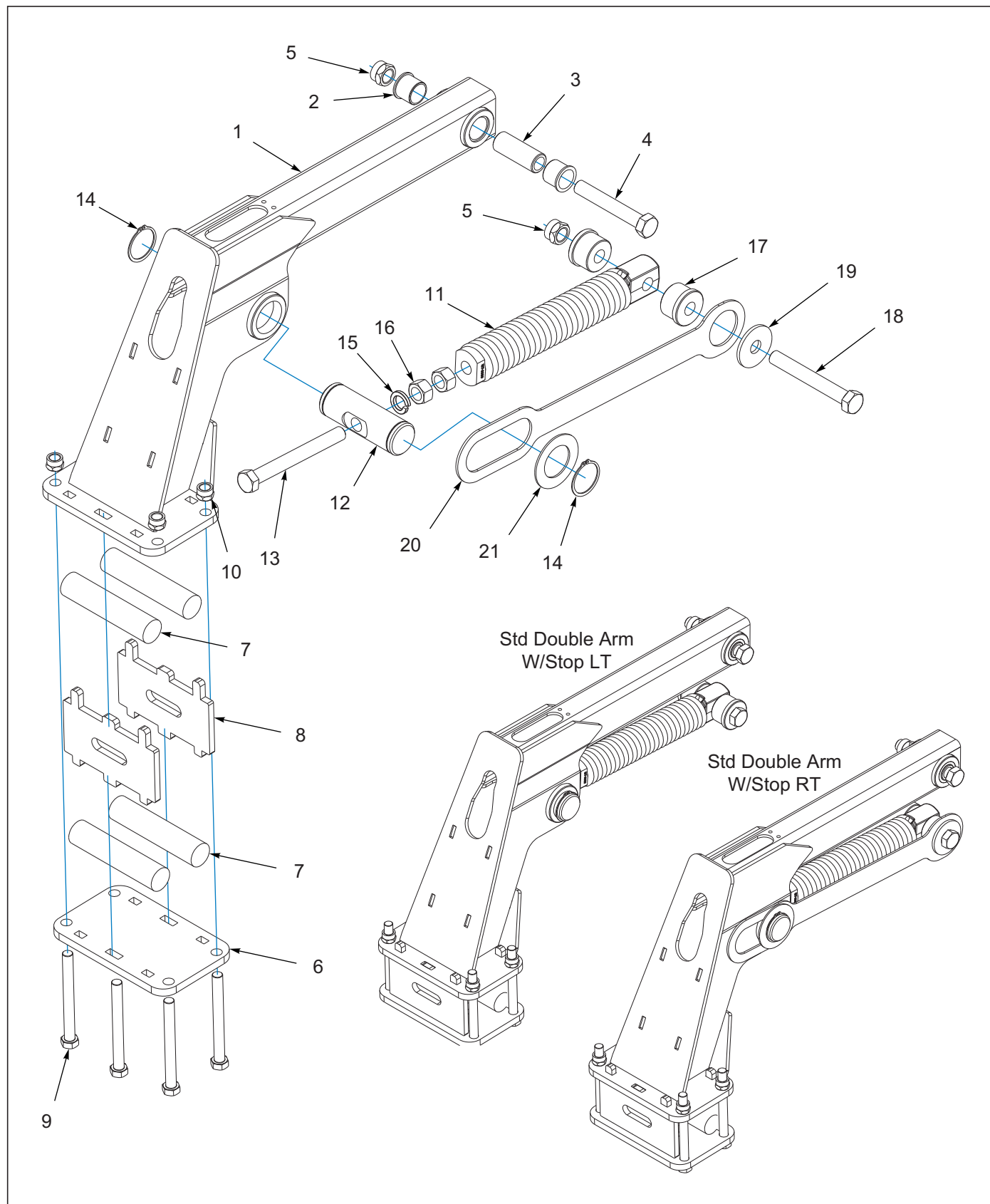


Figure 9-15: STD Double Arm W/Stop Assembly

Std Double Arm W/Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	254930	ARM, DOUBLE REEL	1
2	240687	BEARING, FLANGE 1-1/2	2
3	152209	BUSHING, PIVOT 1-1/2	1
4	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
5	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
6	254946	PLATE, BOTTOM GBAR MT	1
7	203525	SPRING-TORSION, RUBBER, 1-3/4	4
8	254945	PLATE, FT/RR GANGBAR	2
9	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	4
10	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
11	158795	SPRING ASSY, 17"	1
12	160199	PIN, ADJ 7-/14 W/SNAP RING	1
13	152210	BOLT, ADJ, 1 X 9	1
14	158896	SNAP RING, 2-1/2 SHAFT	2
15	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	1
16	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	2
17	254938	SPRING GUIDE	2
18	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
19	254948	PLATE, WASHER 1"	1
20	254947	STOP, REEL ARM	1
21	164563	WASHER, THRUST 2-1/2	1

Hydraulic Double Arm Assembly

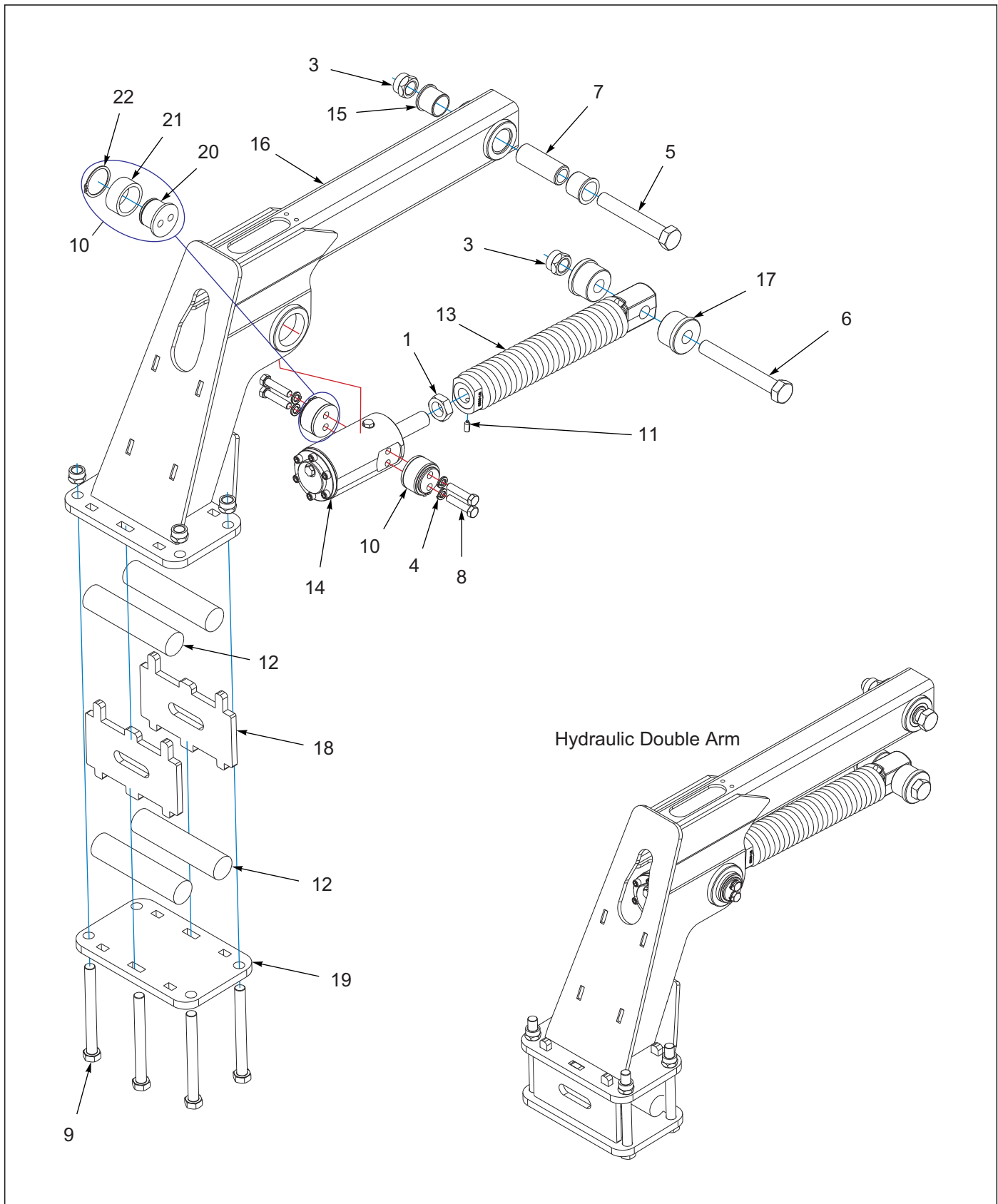


Figure 9-16: Hydraulic Double Arm Assembly

Hydraulic Double Arm Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-511-010002-11	NUT,HEX JAM,1-1/8-12 UNF,GR2	1
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
4	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
5	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
6	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
7	152209	BUSHING, PIVOT 1-1/2	1
8	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
9	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	4
10	198319	ASSY, TRUN MT 1-5/8 NO WASHER	2
11	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
12	203525	SPRING-TORSION, RUBBER, 1-3/4	4
13	206652	SPRING ASSY 17" 1-1/8 THD	1
14	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM	1
15	240687	BEARING, FLANGE 1-1/2	2
16	254930	ARM, DOUBLE REEL	1
17	254938	SPRING GUIDE	2
18	254945	PLATE, FT/RR GANGBAR	2
19	254946	PLATE, BOTTOM GBAR MT	1
20	188528	TRUNION, CYLINDER	1
21	188531	TRUNION, BEARING	1
22	188530	SNAP RING, 2 SHAFT	1

Hydraulic Double Arm W/Stop Assembly

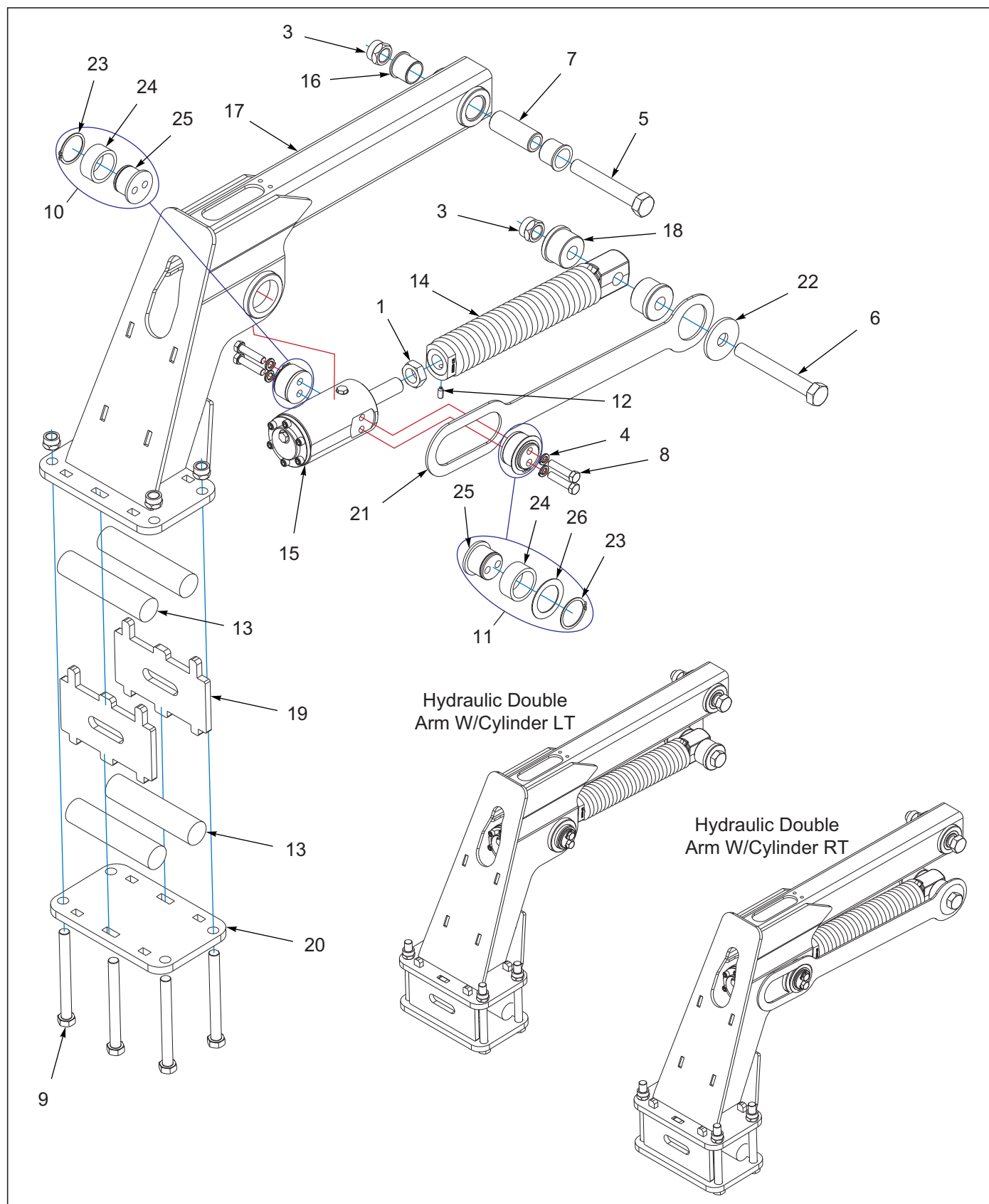


Figure 9-17: Hydraulic Double Arm W/Stop Assembly

Hydraulic Double Arm W/Stop Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-511-010002-11	NUT,HEX JAM,1-1/8-12 UNF,GR2	1
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
4	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
5	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	1
6	100856	SCREW,HHCS,1-8X7-1/2 GR5	1
7	152209	BUSHING, PIVOT 1-1/2	1
8	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	4
9	172885	SCREW HX CP,3/4-10X7-1/2 GR8ZP	4
10	198319	ASSY, TRUN MT 1-5/8 NO WASHER	1
11	198321	ASSY, TRUNION MOUNT 1-5/8"	1
12	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	1
13	203525	SPRING-TORSION, RUBBER, 1-3/4	4
14	206652	SPRING ASSY 17" 1-1/8 THD	1
15	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM	1
16	240687	BEARING, FLANGE 1-1/2	2
17	254930	ARM, DOUBLE REEL	1
18	254938	SPRING GUIDE	2
19	254945	PLATE, FT/RR GANGBAR	2
20	254946	PLATE, BOTTOM GBAR MT	1
21	254947	STOP, REEL ARM	1
22	254948	PLATE, WASHER 1"	1
23	188528	TRUNION, CYLINDER	1
24	188531	TRUNION, BEARING	1
25	188530	SNAP RING, 2 SHAFT	1
26	109895	WASHER,3ODX2-1/16X14GA	1

Conditioner Reel/Gangbar Assembly

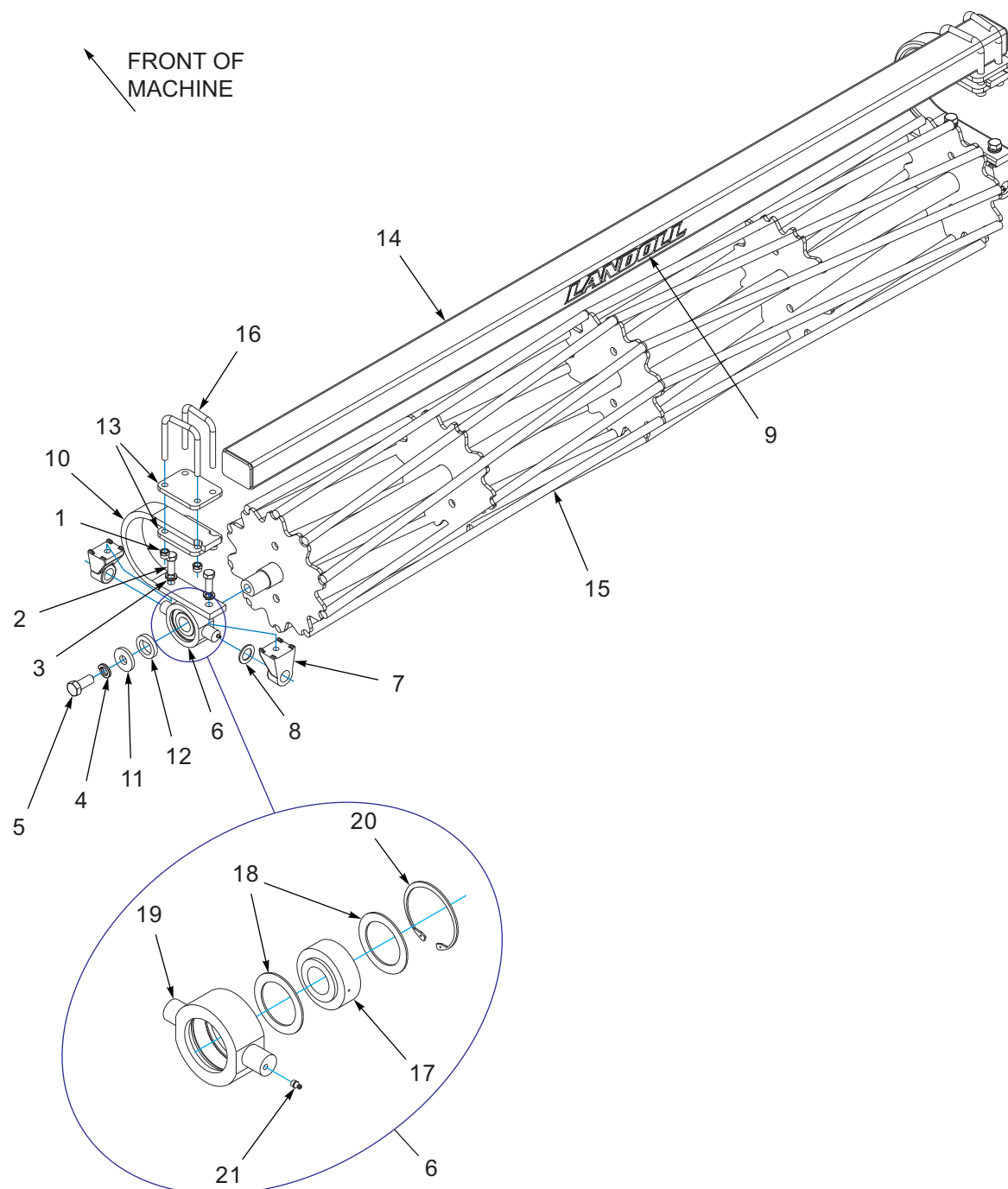
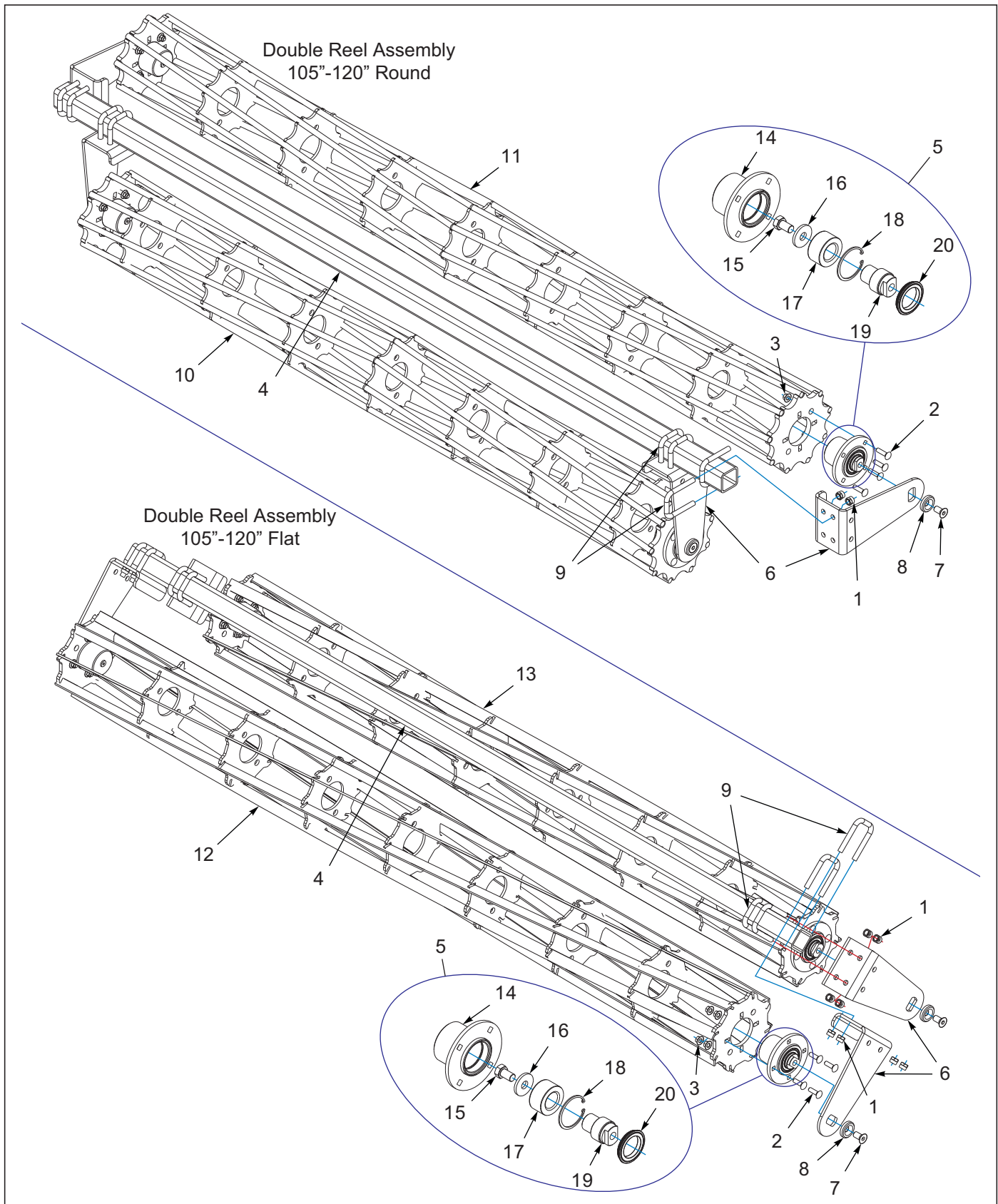


Figure 9-18: Cinditioner Reel/Gangbar Assembly

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

Double Reel Assembly 7531-23'-29' Center



Double Reel Assembly 7531-23'-29' Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254966	DOUBLE RD REEL ASSY, 105/120	
--	254985	DOUBLE FLAT REEL ASSY 105/120	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16
2	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	16
3	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16
4	190960	GANG BAR, DOUBLE REEL 122-1/2	1
5	200222	HUB ASSY REEL	4
6	223645	PLATE,BTP OP PLT REST GST	4
7	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	4
8	254950	WASHER, REEL 2-1/4	4
9	8-102-010012	U BOLT	8
10	225126	REEL WLDMT, 12 DIA X 105" RD (USED WITH 254966)	1
11	225127	REEL WLDMT, 12 DIA X 120" RD (USED WITH 254966)	1
12	209641	REEL, 12 DIA X 120" FLAT WLDMT (USED WITH 254985)	1
13	200299	REEL,12" DIA X 105" FLAT WLDMT (USED WITH 254985)	1
14	246806	BRG HUB, CAST MACHINED	1
15	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
16	200259	WASHER, 3/4 HEAVY - 2-1/4	1
17	174526	BEARING, DOUBLE TAPER RLLR	1
18	174532	INTERNAL SNAP RING	1
19	200218	SPINDLE REEL BEARING	1
20	185757	SEAL, MAINT FREE HUB HSL	1

Double Reel Assembly 7531-32'-35' Center

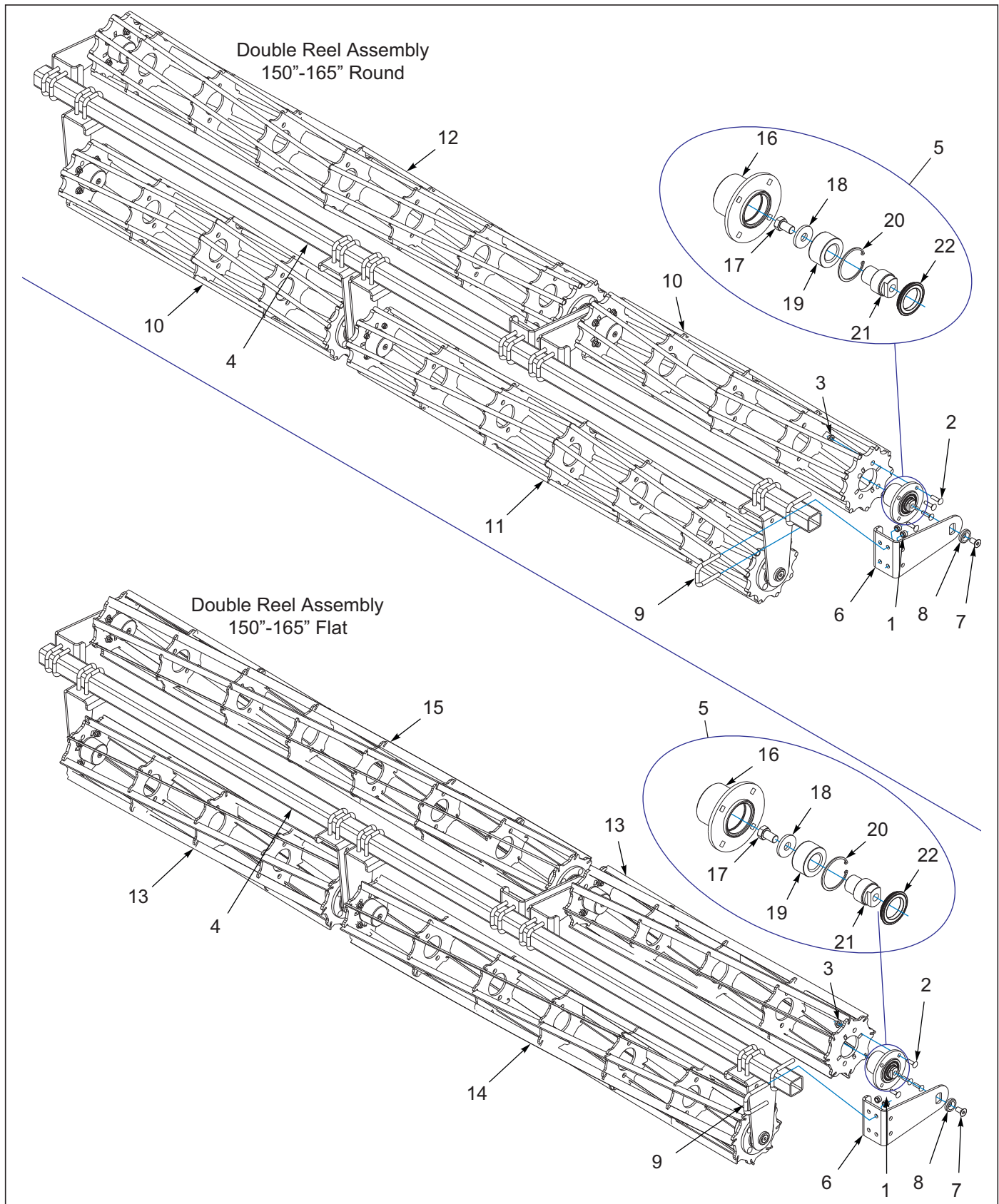


Figure 9-20: Double Reel Assembly 7531-32'-35' Center

Double Reel Assembly 7531-32'-35' Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254981	DOUBLE RD REEL ASSY, 150/165	
--	255000	DOUBLE FLAT REEL ASSY, 150/165	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	32
2	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	32
3	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	32
4	191998	GANG BAR, DOUBLE REEL 174L	1
5	200222	HUB ASSY REEL	8
6	223645	PLATE,BTP OP PLT REST GST	8
7	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	8
8	254950	WASHER, REEL 2-1/4	8
9	8-102-010012	U BOLT	16
10	225123	REEL WLDMT, 12 DIA X 60" RD (USED WITH 254981)	2
11	225125	REEL WLDMT, 12 DIA X 90" RD (USED WITH 254981)	1
12	225126	REEL WLDMT, 12 DIA X 105" RD (USED WITH 254981)	1
13	200296	REEL, 12" DIA X 60" FLAT WLDMT (USED WITH 255000)	2
14	200298	REEL, 12" DIA X 90" FLAT WLDMT (USED WITH 255000)	1
15	200299	REEL,12" DIA X 105" FLAT WLDMT (USED WITH 255000)	1
16	246806	BRG HUB, CAST MACHINED	1
17	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
18	200259	WASHER, 3/4 HEAVY - 2-1/4	1
19	174526	BEARING, DOUBLE TAPER RLLR	1
20	174532	INTERNAL SNAP RING	1
21	200218	SPINDLE REEL BEARING	1
22	185757	SEAL, MAINT FREE HUB HSL	1

Double Flat/RD Reel Assembly 7531-23'-29' Center

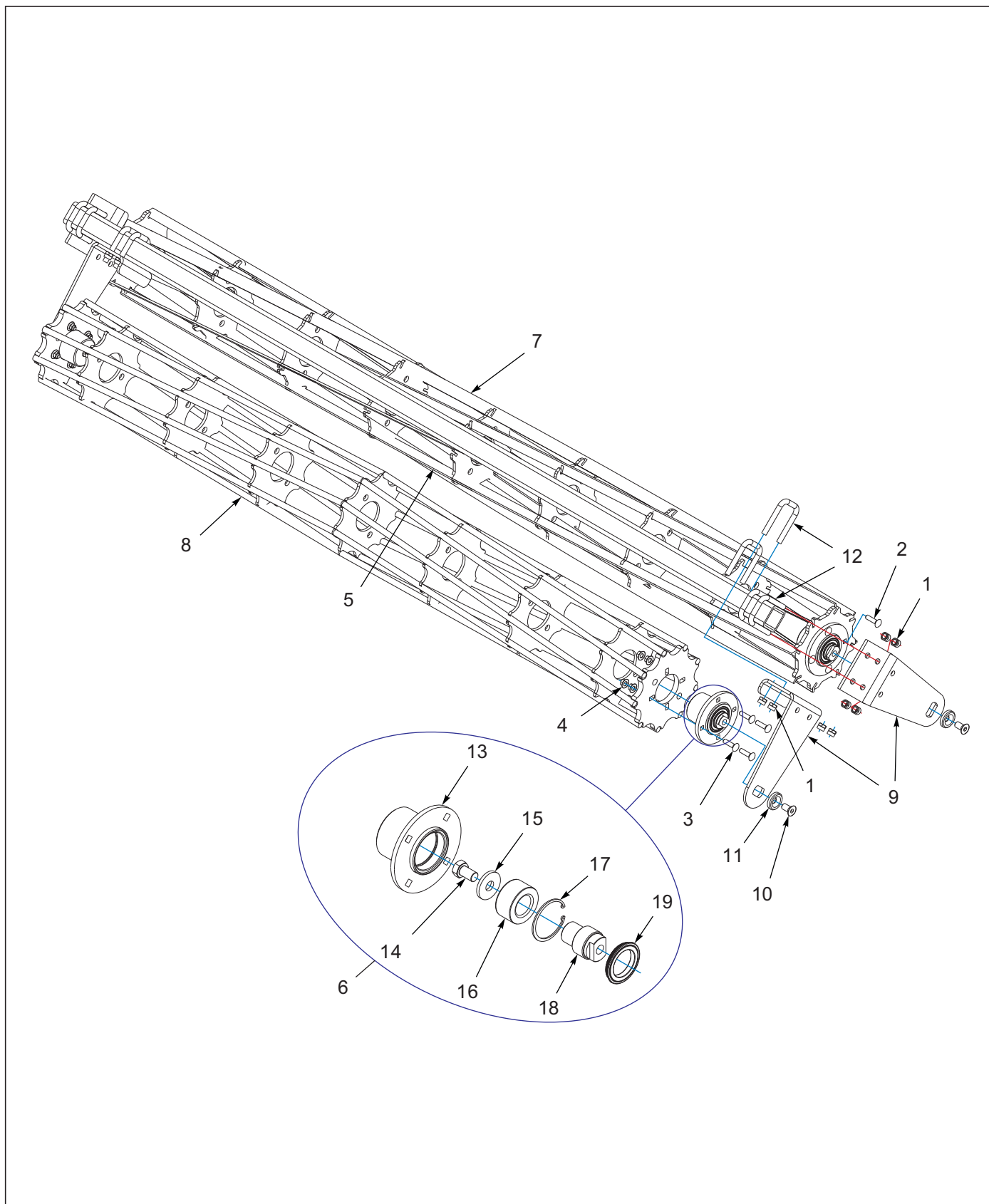


Figure 9-21: Double Flat/RD Reel Assembly 7531-23'-29' Center

Double Flat/RD Reel Assembly 7531-23'-29' Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	255018	DOUBLE REEL, FLAT/RD 105/120	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16
2	1-654-010070-04	SCREW,RDHD SQNCK 1/2-13X1-3/4 GR5	8
3	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	8
4	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16
5	190960	GANG BAR, DOUBLE REEL 122-1/2	1
6	200222	HUB ASSY REEL	4
7	209641	REEL, 12 DIA X 120" FLAT WLDMT	1
8	225126	REEL WLDMT, 12 DIA X 105" RD	1
9	223645	PLATE,BTP OP PLT REST GST	4
10	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	4
11	254950	WASHER, REEL 2-1/4	4
12	8-102-010012	U BOLT	8
13	246806	BRG HUB, CAST MACHINED	1
14	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
15	200259	WASHER, 3/4 HEAVY - 2-1/4	1
16	174526	BEARING, DOUBLE TAPER RLLR	1
17	174532	INTERNAL SNAP RING	1
18	200218	SPINDLE REEL BEARING	1
19	185757	SEAL, MAINT FREE HUB HSL	1

Double Flat/RD Reel Assembly 7531-32'-35' Center

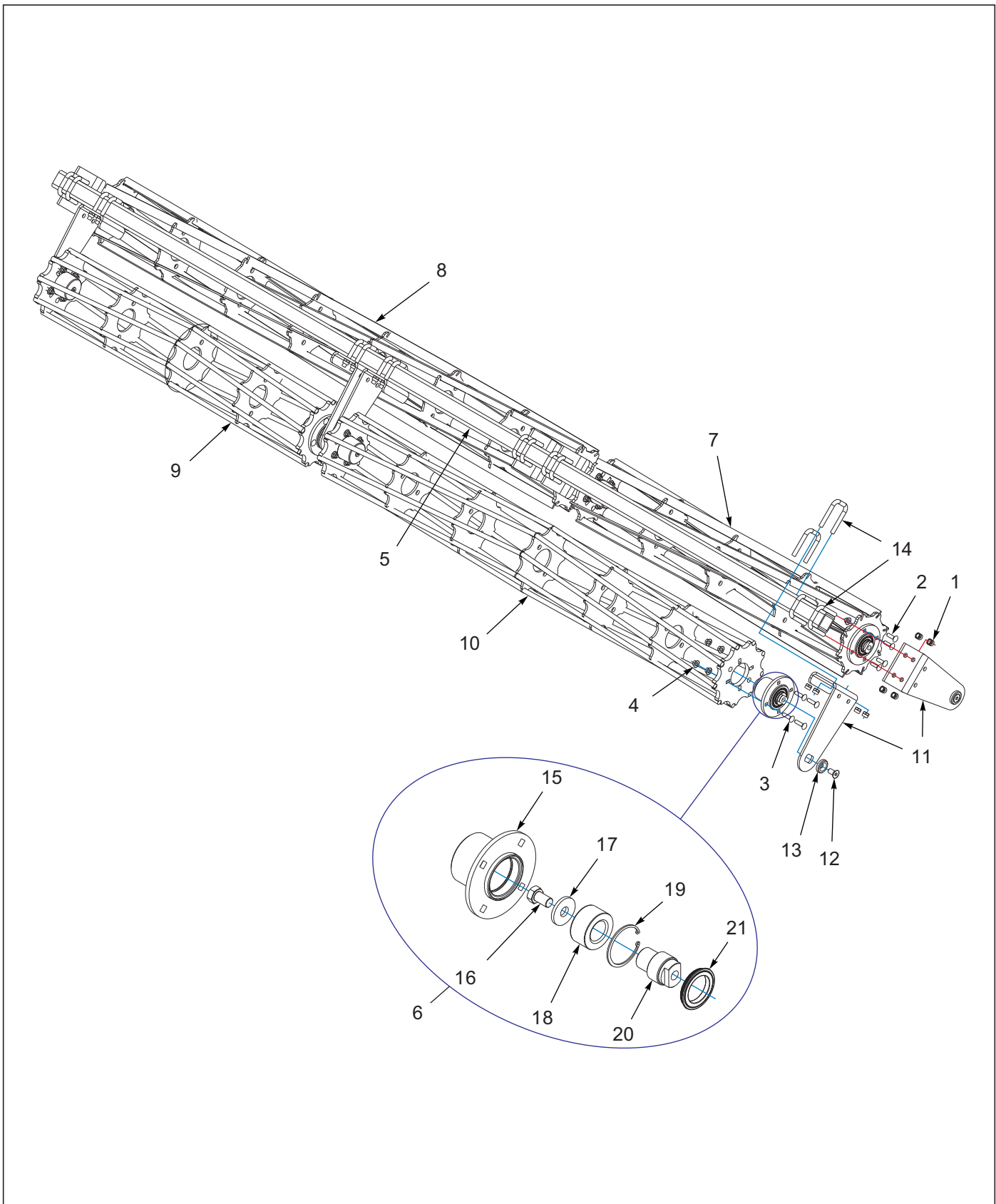


Figure 9-22: Double Flat/RD Reel Assembly 7531-32'-35' Center

Double Flat/RD Reel Assembly 7531-32'-35' Center

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	255021	DOUBLE REEL, FT/RD ASSY 150/165	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	32
2	1-654-010070-04	SCREW,RDHD SQNCK 1/2-13X1-3/4 GR5	16
3	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	16
4	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	32
5	190960	REEL, 12 DIA X 120" FLAT WLDMT	1
6	200222	HUB ASSY REEL	8
7	200296	REEL, 12 DIA X 60" FLAT WLDMT	1
8	200299	REEL, 12 DIA X 105" FLAT WLDMT	1
9	225123	REEL WLDMT, 12 DIA X 60" RD	1
10	225125	REEL WLDMT, 12 DIA X 90" RD	1
11	236645	BEARING MOUNT, REEL	8
12	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	8
13	254950	WASHER, REEL 2-1/4	8
14	8-102-010012	U BOLT	16
15	246806	BRG HUB, CAST MACHINED	1
16	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
17	200259	WASHER, 3/4 HEAVY - 2-1/4	1
18	174526	BEARING, DOUBLE TAPER RLLR	1
19	174532	INTERNAL SNAP RING	1
20	200218	SPINDLE REEL BEARING	1
21	185757	SEAL, MAINT FREE HUB HSL	1

Double Round Reel Assembly 7531-23'-32' Wings

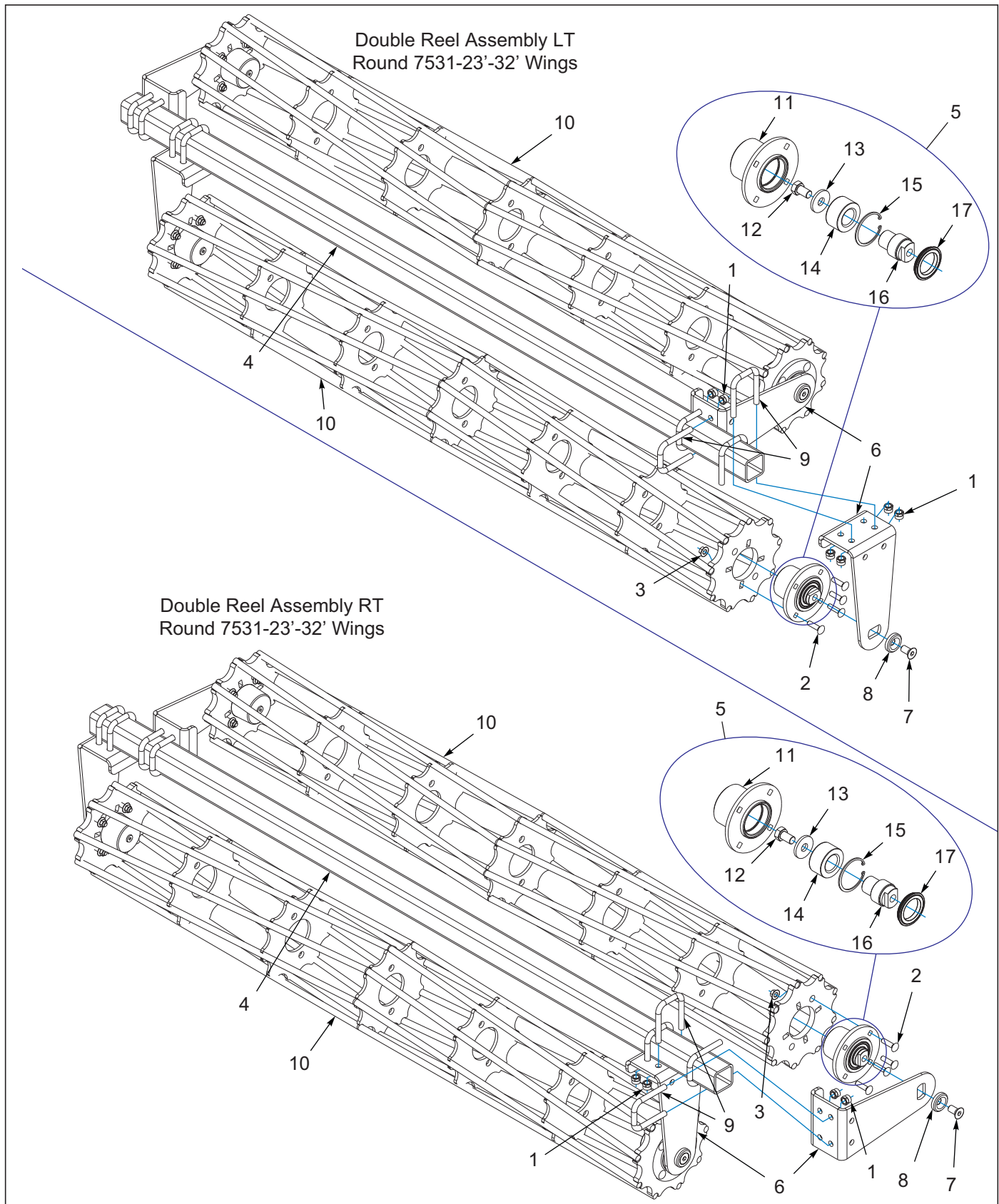


Figure 9-23: Double Round Reel Assembly 7531-23'-32' Wings

Double Round Reel Assembly 7531-23'-32' Wings

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	254969	DOUBLE RD REEL ASSY, 90/90	*		
--	254975	DOUBLE RD REEL ASSY, 90/90	*		
--	254970	DOUBLE RD REEL ASSY, 105/105		*	
--	254976	DOUBLE RD REEL ASSY, 105/105		*	
--	254971	DOUBLE RD REEL ASSY, 120/120			*
--	254977	DOUBLE RD REEL ASSY, 120/120			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16	16
2	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	16	16	16
3	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16	16
4	190956	GANG BAR, DOUBLE REEL 100L	1	--	--
4	190957	GANG BAR, DOUBLE REEL 115L	--	1	--
4	190958	GANG BAR, DOUBLE REEL 130L	--	--	1
5	200222	HUB ASSY REEL	4	4	4
6	223645	PLATE,BTP OP PLT REST GST	4	4	4
7	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	4	4	4
8	254950	WASHER, REEL 2-1/4	4	4	4
9	8-102-010012	U BOLT	8	8	8
10	225125	REEL WLDMT, 12 DIA X 90" RD	2	--	--
10	225126	REEL WLDMT, 12 DIA X 105" RD	--	2	--
10	225127	REEL WLDMT, 12 DIA X 120" RD	--	--	2
11	246806	BRG HUB, CAST MACHINED	1	1	1
12	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1	1	1
13	200259	WASHER, 3/4 HEAVY - 2-1/4	1	1	1
14	174526	BEARING, DOUBLE TAPER RLLR	1	1	1
15	174532	INTERNAL SNAP RING	1	1	1
16	200218	SPINDLE REEL BEARING	1	1	1
17	185757	SEAL, MAINT FREE HUB HSL	1	1	1

Double Flat Reel Assembly 7531-23'-32' Wings

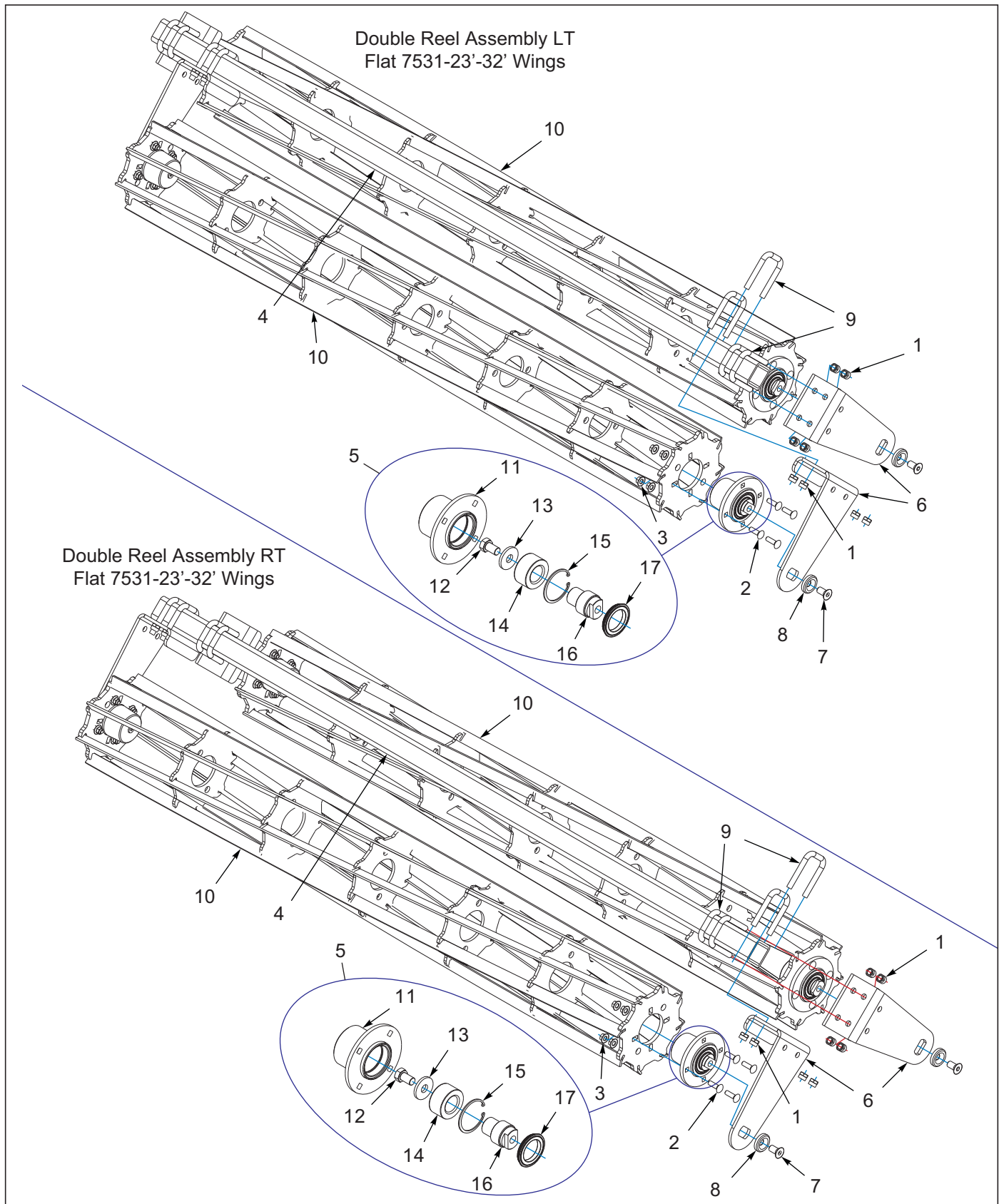


Figure 9-24: Double Flat Reel Assembly 7531-23'-32' Wings

Double Flat Reel Assembly 7531-23'-32' Wings

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	254988	DOUBLE FLAT REEL ASSY, 90/90	*		
--	254994	DOUBLE FLAT REEL ASSY, 90/90	*		
--	254989	DOUBLE FLAT REEL ASSY 105/105		*	
--	254995	DOUBLE FLAT REEL ASSY 105/105		*	
--	254990	DOUBLE FLAT REEL ASSY 120/120			*
--	254996	DOUBLE FLAT REEL ASSY 120/120			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16	16
2	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	16	16	16
3	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16	16
4	190956	GANG BAR, DOUBLE REEL 100L	1	--	--
4	190957	GANG BAR, DOUBLE REEL 115L	--	1	--
4	190958	GANG BAR, DOUBLE REEL 130L	--	--	1
5	200222	HUB ASSY REEL	4	4	4
6	223645	PLATE,BTP OP PLT REST GST	4	4	4
7	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	4	4	4
8	254950	WASHER, REEL 2-1/4	4	4	4
9	8-102-010012	U BOLT	8	8	8
10	200298	REEL, 12" DIA X 90" FLAT WLDMT	2	--	--
10	200299	REEL,12" DIA X 105" FLAT WLDMT	--	2	--
10	209641	REEL, 12 DIA X 120" FLAT WLDMT	--	--	2
11	246806	BRG HUB, CAST MACHINED	1	1	1
12	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1	1	1
13	200259	WASHER, 3/4 HEAVY - 2-1/4	1	1	1
14	174526	BEARING, DOUBLE TAPER RLLR	1	1	1
15	174532	INTERNAL SNAP RING	1	1	1
16	200218	SPINDLE REEL BEARING	1	1	1
17	185757	SEAL, MAINT FREE HUB HSL	1	1	1

**Double Reel Assembly
RD 7531-35' Wings**

1 2 3 4 5 6 7 8 9 10 11 12

**Double Reel Assembly
Flat 7531-35' Wings**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

The diagrams illustrate the assembly of two types of double reel assemblies. The top diagram, labeled 'Double Reel Assembly RD 7531-35' Wings', shows a perspective view of the reel assembly with callouts 1 through 12. The bottom diagram, labeled 'Double Reel Assembly Flat 7531-35' Wings', shows a similar perspective view with callouts 1 through 15. Both diagrams include a detailed inset of the reel head assembly, showing components 16 through 22. The inset shows a cross-section of the reel head with a central shaft and various bearings and seals. The main assembly shows the reel head mounted on a frame with a motor and drive shaft. The RD 7531-35' Wings assembly has a more complex frame with multiple support points, while the Flat 7531-35' Wings assembly has a simpler frame with fewer support points.

F-1189-2510

Double Reel Assembly 7531-35' Wings

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	254979	DOUBLE RD REEL ASSY, 120/135	
--	254998	DOUBLE FLAT REEL ASSY, 120/135	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	24
2	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	24
3	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	24
4	200222	HUB ASSY REEL	6
5	204521	GANG BAR DOUBLE REEL 142-1/2"	1
6	223645	PLATE,BTP OP PLT REST GST	6
7	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	6
8	254950	WASHER, REEL 2-1/4	6
9	8-102-010012	U BOLT	12
10	225123	REEL WLDMT, 12 DIA X 60" RD (USES WITH 254979)	1
11	225124	REEL WLDMT, 12 DIA X 75" RD (USES WITH 254979)	1
12	225127	REEL WLDMT, 12 DIA X 120" RD (USES WITH 254979)	1
13	200296	REEL, 12" DIA X 60" FLAT WLDMT (USES WITH 254998)	1
14	200297	REEL, 12" DIA X 75" FLAT WLDMT (USES WITH 254998)	1
15	209641	REEL, 12 DIA X 120" FLAT WLDMT (USES WITH 254998)	1
16	246806	BRG HUB, CAST MACHINED	1
17	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
18	200259	WASHER, 3/4 HEAVY - 2-1/4	1
19	174526	BEARING, DOUBLE TAPER RLLR	1
20	174532	INTERNAL SNAP RING	1
21	200218	SPINDLE REEL BEARING	1
22	185757	SEAL, MAINT FREE HUB HSL	1

Double Flat/RD Reel Assembly 7531-23'-32' Wings

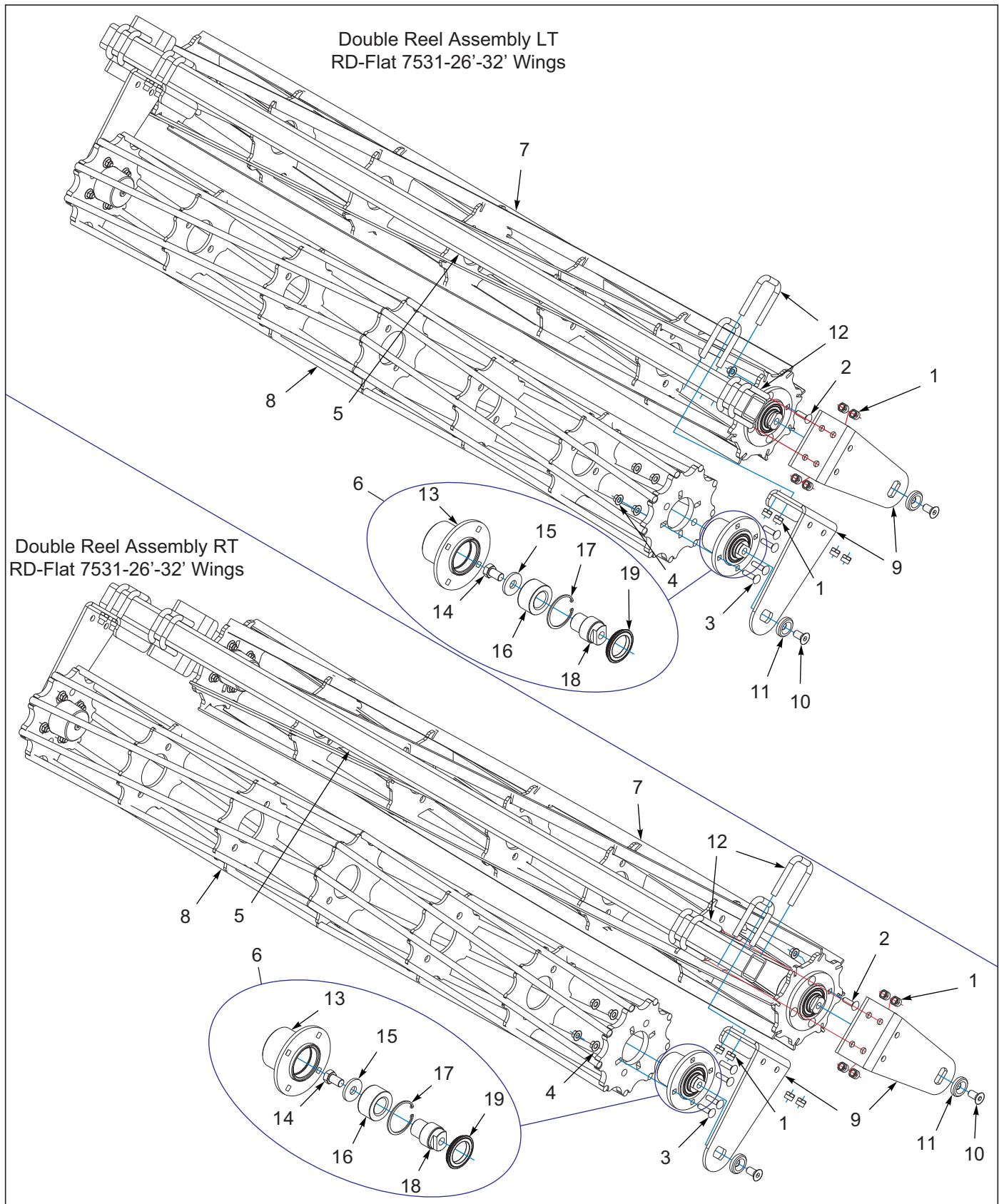


Figure 9-26: Double Flat/RD Reel Assembly 7531-23'-32' Wings

Double Flat/RD Reel Assembly 7531-23'-32' Wings

ITEM	PART NUMBER	DESCRIPTION	QTY.		
--	255010	DOUBLE REEL FT/RD ASSY, 90/90	*		
--	255015	DOUBLE REEL FT/RD ASSY, 90/90	*		
--	255011	DOUBLE REEL FT/RD ASSY 105/105		*	
--	255016	DOUBLE REEL FT/RD ASSY 105/105		*	
--	255012	DOUBLE REEL,FT/RD ASSY120/120			*
--	255017	DOUBLE REEL,FT/RD ASSY120/120			*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16	16
2	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	8	8	8
3	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	8	8	8
4	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16	16
4	190956	GANG BAR, DOUBLE REEL 100L	1	--	--
4	190957	GANG BAR, DOUBLE REEL 115L	--	1	--
5	190958	GANG BAR, DOUBLE REEL 130L	--	--	1
6	200222	HUB ASSY REEL	4	4	4
7	200298	REEL, 12" DIA X 90" FLAT WLDMT	1	--	--
7	200299	REEL,12" DIA X 105" FLAT WLDMT	--	1	--
7	209641	REEL, 12 DIA X 120" FLAT WLDMT	--	--	1
8	225125	REEL WLDMT, 12 DIA X 90" RD	1	--	--
8	225126	REEL WLDMT, 12 DIA X 105" RD	--	1	--
8	225127	REEL WLDMT, 12 DIA X 120" RD	--	--	1
9	236645	BEARING MOUNT, REEL	4	4	4
10	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	4	4	4
11	254950	WASHER, REEL 2-1/4	4	4	4
12	8-102-010012	U BOLT	8	8	8
13	246806	BRG HUB, CAST MACHINED	1	1	1
14	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1	1	1
15	200259	WASHER, 3/4 HEAVY - 2-1/4	1	1	1
16	174526	BEARING, DOUBLE TAPER RLLR	1	1	1
17	174532	INTERNAL SNAP RING	1	1	1
18	200218	SPINDLE REEL BEARING	1	1	1
19	185757	SEAL, MAINT FREE HUB HSL	1	1	1

Double Flat/RD Reel Assembly 7531-35' Wings

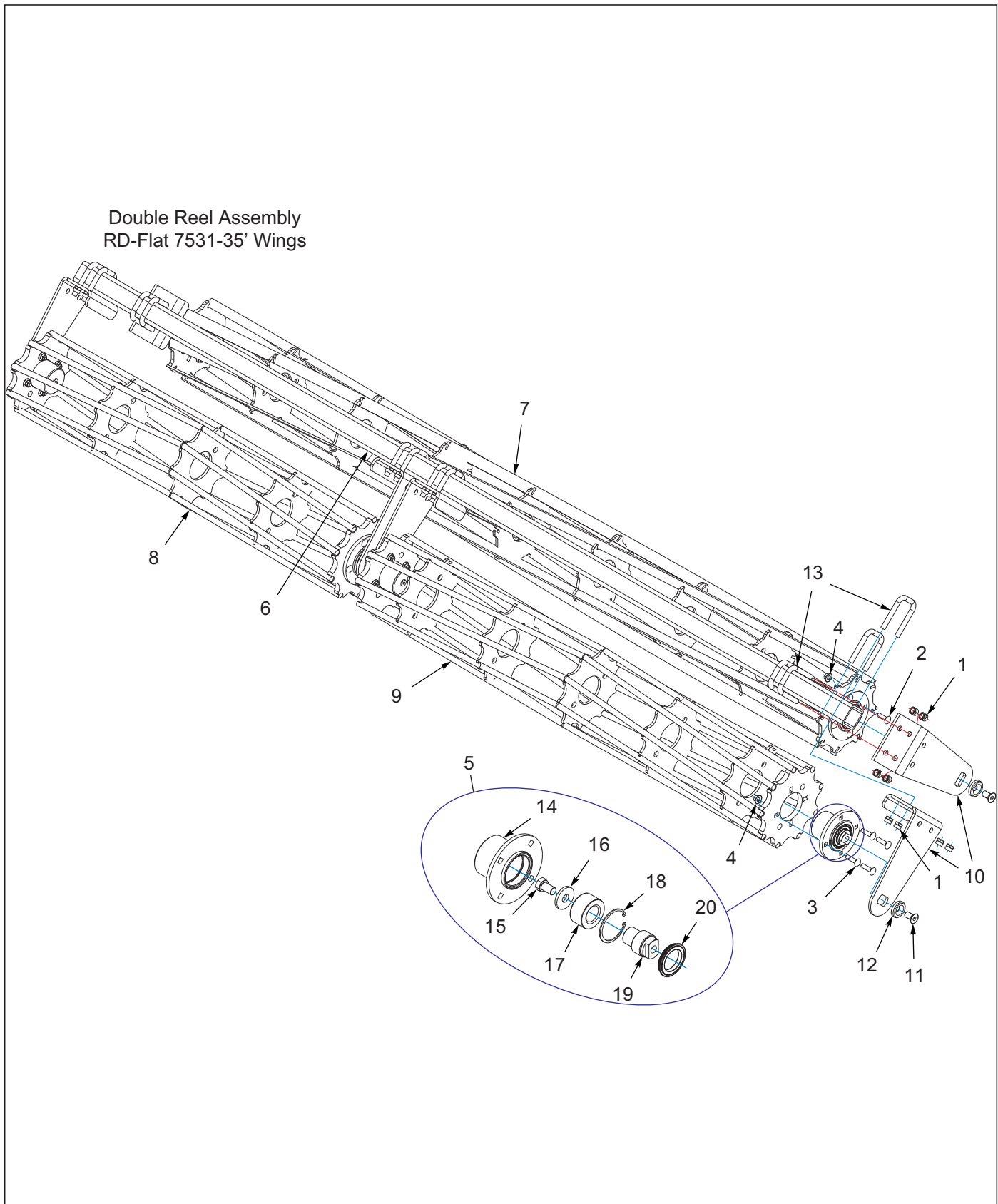


Figure 9-27: Double Flat/RD Reel Assembly 7531-35' Wings

Double Flat/RD Reel Assembly 7531-35' Wings

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	255019	DOUBLE REEL, FLAT/RD 120/135	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	24
2	1-654-010070-04	SCREW RDHD SQNK 1/2-13X1-3/4	8
3	1-654-010070-05	SCREW,RDHD SQNCK 1/2-13X2 GR5	16
4	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	24
5	200222	HUB ASSY REEL	6
6	204521	GANG BAR DOUBLE REEL 142-1/2"	1
7	209641	REEL, 12 DIA X 120" FLAT WLDMT	1
8	225123	REEL WLDMT, 12 DIA X 60" RD	1
9	225124	REEL WLDMT, 12 DIA X 75" RD	1
10	236645	BEARING MOUNT, REEL	6
11	243123	SCREW, SKT FL CTSK3/4-10X1-1/2	6
12	254950	WASHER, REEL 2-1/4	6
13	8-102-010012	U BOLT	12
14	246806	BRG HUB, CAST MACHINED	1
15	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1
16	200259	WASHER, 3/4 HEAVY - 2-1/4	1
17	174526	BEARING, DOUBLE TAPER RLLR	1
18	174532	INTERNAL SNAP RING	1
19	200218	SPINDLE REEL BEARING	1
20	185757	SEAL, MAINT FREE HUB HSL	1

Reel Hydraulic Assembly

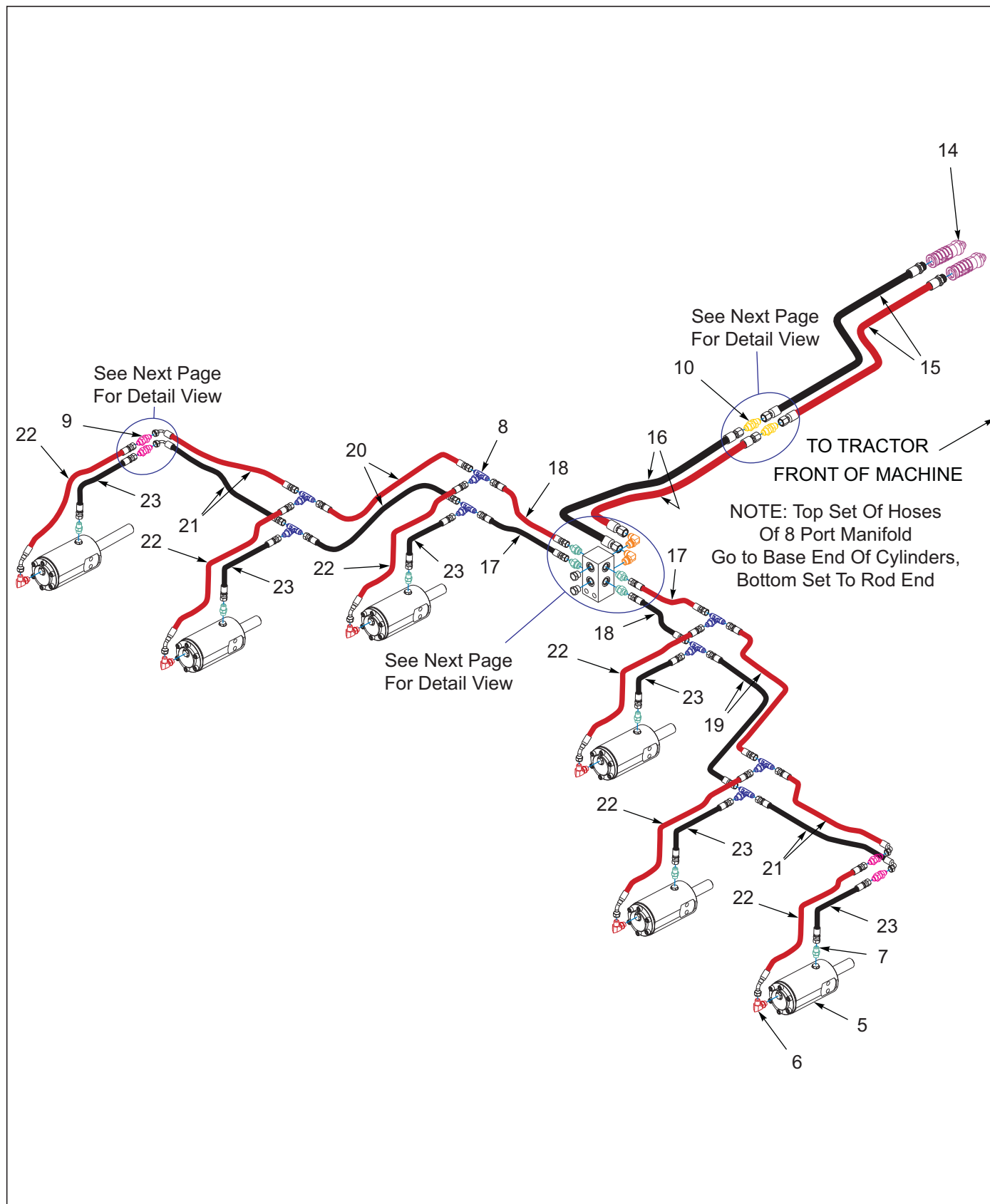


Figure 9-28: Reel Hydraulic Assembly (1 of 2)

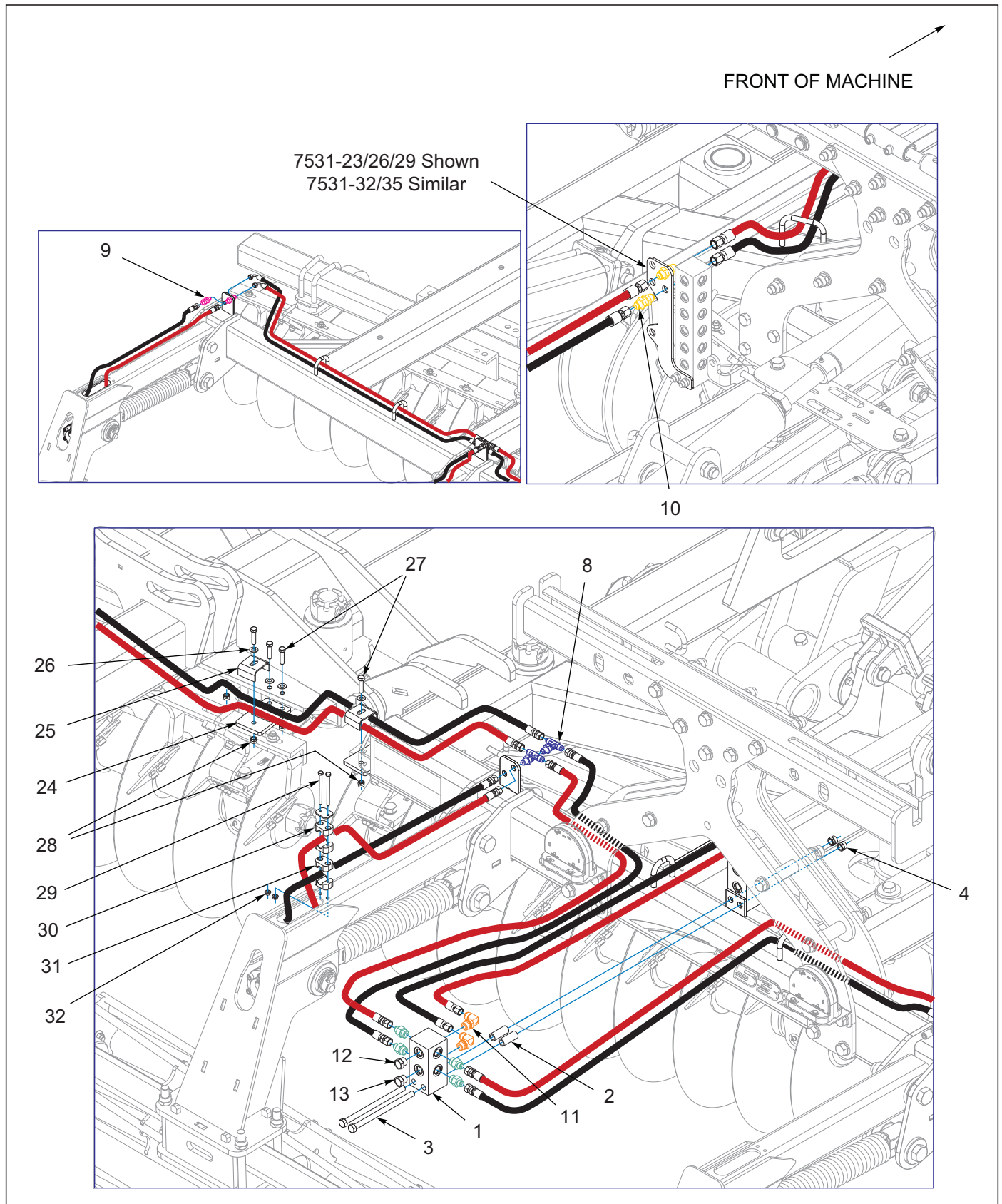


Figure 9-29: Reel Hydraulic Assembly (2 of 2)

Reel Hydraulic Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
2	172519	TUBE RD .75 X .532 X 1.875 ZP	2
3	172898	SCREW HX CP 1/2-13X8 GR5	2
4	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
5	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM	6
6	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	6
7	202702-6-6S	ADAPTER, STR,#6 SAEX#6 JIC	6
8	2703-LN-6	BULKHEAD TEE, #6 JIC	8
9	0018127	FITTING BULKHEAD UNION SS	4
10	102-0322	37 FLARE BULKHEAD/37 FLARE	2
11	2062-8-8S	ADAPTER, 90°, #8 O-RING-TUBE	2
12	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	4
13	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
14	251976	HOSE HANDLES, PURPLE, 1/2" SET	2
15	208291	HOSE ASSY 3/8X244, #8JICX#8OR	2
16	141881	HOSE ASSY 3/8X136 #8 JIC SWIV (7531-23'-26'-29')	2
16	198296	HOSE ASSY, 3/8X144 #8JIC SWIV (7531-32'-35')	2
17	71509125	HOSE ASSY, 1/4, #6 JIC 30" (7531-23'-26'-29')	2
17	71500165	HOSE, .25 X 46 IN. (7531-32'-35')	2
18	176930	HOSE ASSY, 1/4 X 28 #6 JIC STR (7531-23'-26'-29')	2
18	232464	HOSE ASSY, 1/4X44 #6 JIC STR (7531-32'-35')	2
19	71509004	HOSE .25 X 98 (7531-23'-26'-29')	2
19	228265	HOSE ASSY, 1/4X105#6JIC STR (7531-32'-35')	2
20	7779-84	HOSE HYD 1/4 X 84 (7531-23'-26'-29')	2
20	7779-90	HOSE HYD 1/4 X 90 (7531-32'-35')	2
21	256071	HOSE ASSY,1/4X27 #6JIC STR-90 (7531-23')	4
21	256065	HOSE ASSY 1/4X 56 #6JIC STR-90 (7531-26')	4
21	256066	HOSE ASSY 1/4X 68 #6JIC STR-90 (7531-29'-32'-35')	4
22	256061	HOSE ASSY 1/4X 38 #6JIC STR-45	6
23	256064	HOSE ASSY, 1/4 X 33 #6 JIC STR	6
24	209726	PLATE, HOSE MOUNT	4
25	2-181-010001	HOSE CLAMP	4
26	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	12
27	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	12
28	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	12
29	1-654-010047-16	SCREW,HX CP 1/4-20UNCX3.50 G5	12
30	256063	COVER PLATE, GROUP 2 ZINC PL	6
31	256062	CLAMP PAIR, 15MM SMTH BORE,BLK	24
32	108417	NUT SPIRAL 1/4-20HX FG	12

Table provided for general use.

[illegible]

Glossary

For clarity this glossary of industry standard abbreviations and their definitions are provided.

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
----- 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

Index

Numerics

0018127	9-57	1-076-010012	3-8
006-115-00	1-22	108417	9-57
0600-250-01250	1-16	108628	1-17
100000328	6-22	109895	9-26, 9-34
1-007-010025 . 5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34, 5-37, 5-39, 5-40, 5-41, 5-42, 5-43, 5-44, 5-45, 5-47, 5-48, 9-57		1-104-010002	3-6
100826	1-16	111789	6-9, 6-11, 6-15, 6-17, 6-22
100829 9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34		111962	1-20, 3-4
100855 1-11, 5-6, 5-8, 5-10, 5-12, 5-14, 5-18		114028	1-4
100856 9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34		114029	4-2
100966	3-8	116100	1-6, 1-10, 1-18, 2-2, 5-6, 5-10
101162	1-22	116432	5-2, 5-26, 5-28
101385	2-2, 2-4	116437	5-28, 5-30
101387	2-2	116489	5-20, 5-22, 5-24
101988	3-6	116490	5-36
102-0322	5-30, 5-32, 5-34, 9-57	116491	5-30, 5-32
102-1130 . . . 5-20, 5-22, 5-24, 5-26, 5-28, 5-37, 5-39, 5-40, 5-41, 5-43, 5-44, 5-47		116492	5-26
102498	1-20, 3-4	117260	5-32
102600	1-6, 1-10, 1-20, 3-2, 3-4	117916	5-2
102604	1-20, 3-4	120454	1-18, 5-8, 5-12, 5-16
103103-002	1-22	121031	5-26, 5-28, 5-45
103841	2-2	122709	2-7
104436	5-16	122911	5-32
105106	1-22	122917	1-17, 5-8, 5-12, 5-16
105107	1-22	123062	5-34
105874	7-5	123079	5-20, 5-22, 5-24
107-0018	7-5	123109	5-22, 5-26, 5-41, 5-47
107491	4-8, 4-10	124696	2-2, 5-30, 5-32, 5-34, 5-36
1-076-010007	3-8	125566	6-15, 6-17
1-076-010009	3-8	127806	5-22, 5-26, 5-39, 5-43
1-076-010010	3-8	129263 . 2-4, 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54	
		1-298-010001-1	1-16, 2-4, 2-5, 3-6, 3-8, 4-4
		130052	3-2
		130948	5-34
		130949	5-22, 5-24

131081	2-2	140672	3-6
137598	5-4	141109	1-2, 1-4
137599	5-2, 5-30, 5-32	141154	3-6, 4-2
137601	5-34	141165	4-22, 4-24
137943	9-36	141209	1-6, 1-10, 3-2
139213	5-34	141234	1-6, 1-10
1-397-010301054	5-2, 5-4	141241	2-4
1404013	1-22	141242	2-4
140464	4-25, 9-36	141245	3-8
140469	4-2	141247	2-2
140472	5-10, 5-22, 5-24, 5-26, 5-28, 6-22	141250	2-6
140472M	6-23	141258	2-4, 3-6
140473	4-25, 9-36	141259	5-8, 5-12, 5-16, 5-18, 8-3
140475	4-25, 9-36	141260	8-3
140476	4-25, 9-36	141263	2-4
140477	4-2, 4-25, 9-36	141269	1-2, 1-4, 4-12, 4-14
140479	4-2, 9-36	141271	3-6
140480	4-2, 9-36	1413183	5-2
140481	4-2	1413184	5-2
140482	4-2	141597	8-3
140483	4-2	141776	5-16
140484	4-2	141777	2-4
140485	4-2	141807	2-2
140487	4-2	141808	3-6
140490	4-2	141826	5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34
140491	4-2	141827	2-4, 5-36
140519	1-6, 1-10, 3-2	141828	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34, 5-36
140533	1-2, 1-4	141860	5-30, 5-32, 5-34, 5-36
1-406-010012	3-8	141881	5-2, 5-34, 9-57
140610	2-7	141882	5-20, 5-22, 5-24
140625	2-4	141883	5-2
140627	2-4	141889	5-4
140631	2-4, 5-36, 6-24	142112	6-15, 6-17
140647	2-2, 2-6	142113	6-22
140649	2-7	142119	6-22
140658	3-6	142120	6-22
140663	3-6	142194	2-6
140667	3-6		

1422176	5-30	150299	5-16
1422177	5-2	1-510-010004-03	1-2, 1-4
142581	4-16	1-511-010001-05	1-16
142803	6-24	1-511-010002-11	9-24, 9-26, 9-32, 9-34
142806	6-24	1-512-010002-16	1-4, 9-18, 9-20, 9-22, 9-24, 9-26
142807	6-24	1-512-010005-01	1-2, 1-4, 2-2, 4-12, 4-14, 7-5
143853	5-2, 5-4	1-512-010005-03	1-6, 1-10, 1-17
143988	4-2	1-512-010005-05	1-2, 1-4, 1-6, 1-10, 2-2, 2-4, 4-6, 5-6, 5-10, 9-57
143994	6-9, 6-11, 6-15, 6-17	1-512-010005-09	1-2, 1-4, 1-6, 1-10, 2-2, 2-4, 3-2, 4-2, 4-12, 4-14, 7-5, 9-6, 9-8, 9-10, 9-12, 9-14, 9-16, 9-57
144048	1-17	1-512-010005-13	1-2, 1-4, 1-6, 1-10, 3-2, 4-12, 4-14, 7-5, 9-36, 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
144116	2-4	1-512-010005-15	1-6, 1-10, 1-15, 1-18, 2-7, 3-2, 4-2, 4-4, 4-8, 4-10, 4-12, 4-14, 5-6, 5-8, 5-10, 5-12, 5-14, 5-16, 5-18, 7-5, 9-28, 9-30, 9-32, 9-34
144193	1-4, 8-3	1-512-010005-17	1-4
144198	3-6	1-512-010005-19	1-6, 1-10, 1-18, 2-2, 2-4, 3-6, 9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34
144199	3-6	1-512-010007-07	2-2
144200	3-6	1-512-010007-14	9-18, 9-20, 9-22, 9-28, 9-30
144264	4-12, 4-14	1-512-010007-16	3-6
144341	4-6, 4-8, 4-10	1-516-010001-20	1-20, 3-4
145203	6-15	152209	9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34
145203M	6-16	152210	9-18, 9-20, 9-22, 9-28, 9-30
145204	6-17	153620	5-2, 5-4, 5-30
145204M	6-18	153631	4-2
147072	4-8, 4-10, 6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7, 6-8, 6-13, 6-19, 6-20, 6-23	153651	4-2
147123	5-26, 5-28	153652	4-2
147582	5-2	153696	2-2
147583	5-36	153698	4-20, 4-22
147584	5-22, 5-24	153699	4-16, 4-18, 4-20, 4-22, 4-24
147755	6-1, 6-3, 6-5, 6-13, 6-19, 6-22	153700	4-24
148085	6-15	153701	4-16
148087	6-15, 6-17	153702	4-16, 4-22, 4-24
148088	6-15, 6-17	153704	4-18
148089	6-15	153705	4-18
148092	6-17	153709	4-2
148094	6-17		
148337	9-36		
148382	3-2		
149594	4-20, 4-22		
150076	1-2, 1-4		

153713	4-16, 4-18, 4-20, 4-22	158795	9-18, 9-20, 9-22, 9-30
153716	9-36	158896	9-18, 9-20, 9-22, 9-28, 9-30
153803	1-16	159553	1-16
153839	5-24	159557	1-16
153841	5-34	159569	5-30, 5-32
153842	5-4, 5-26, 5-28, 5-30, 5-32	160151	3-6
153843	5-30, 5-32	160155	3-6
154185	9-36	160161	4-2
154186	9-36	160199	9-18, 9-20, 9-22, 9-28, 9-30
154393	9-36	161530A	4-2, 4-16, 4-18, 4-20, 4-22, 4-24
154658	9-36	161550	2-5
154659	9-36	1-630-010021-03	1-17
154663	4-24	163051	5-26, 5-28
154668	4-2	163781	5-34
154686	9-2, 9-36	164124	1-6, 1-10
154687	9-2, 9-36	164307	5-32
154691	9-36	164378	9-36
154692	9-36	164471	2-4, 4-6, 4-8, 4-10
154888	2-4	164533	3-2, 3-6
155594	9-36	164539	2-4, 3-2
155617	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	164557	1-22
155618	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	164563	1-6, 1-10, 9-22, 9-30
155619	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	1-647-010004221	6-10, 6-12, 6-16, 6-18
155628	2-2	1-647-010004240	1-6, 1-10, 2-4, 5-6, 5-10
1-557-010362-40	3-8	1-647-010004257	3-2, 3-6, 4-2
1-557-010362-51	1-20, 3-4	165127	9-4, 9-36
1-557-010403	2-4, 4-6, 4-8, 4-10	165226	9-36
155716	3-2	165257	1-6, 1-10
155965	4-4	165258	1-17
156010	8-3	165259	1-17
156082	4-18	165260	1-17
156124	9-36	165265	1-6, 1-10
156125	9-2, 9-4, 9-36	165287	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-37, 5-39, 5-40, 5-43, 5-44
156945	5-26	1-654-010032-05	9-36
156950	2-2	1-654-010032-09	4-2
156973	1-20, 3-4	1-654-010032-23	4-4
156979	1-20, 3-4	1-654-010032-25	4-4, 4-8, 4-10
1-573-010006	8-3		

1-654-010047-03	4-12, 4-14	1-654-010070-05	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
1-654-010047-06	1-2, 1-4, 2-2, 7-5	1-654-010080-2	1-16
1-654-010047-07	7-5	1-654-010087-07	1-4
1-654-010047-08	7-5	1-654-010087-16	9-18, 9-20, 9-22, 9-24, 9-26
1-654-010047-16	9-57	1-654-010125-09	2-4
1-654-010049-03	1-22	1-654-010125-22	2-2
1-654-010049-06	1-2, 1-4	1-659-010004	3-8
1-654-010051-06	1-6, 1-10	166171	5-22
1-654-010051-07	1-2, 9-57	166282	5-4
1-654-010051-08	1-4	166717	1-17
1-654-010051-13	1-2, 1-4, 2-2, 4-6, 5-6, 5-10	166718	4-2, 4-16, 4-18, 4-20, 4-22, 4-24
1-654-010051-15	2-2, 4-6	167556	5-26, 5-28
1-654-010055-01	4-12, 4-14	167568	1-6, 1-10, 1-16
1-654-010055-03	1-4, 7-5	167569	1-16
1-654-010055-04	2-4	167586	1-22
1-654-010055-05	2-4, 4-2	167617	3-2
1-654-010055-11	1-2, 1-4, 1-6, 1-10	167638	2-2
1-654-010055-13	1-2, 1-4, 7-5	167649	1-22
1-654-010055-15	1-6, 1-10, 3-2	168762	4-12, 4-14
1-654-010055-16	9-6, 9-8, 9-10, 9-12, 9-14, 9-16	168859	1-20, 3-4
1-654-010059-05	4-12, 4-14	169690	9-24, 9-26, 9-32, 9-34
1-654-010059-07	1-6, 1-10, 2-2	170213	1-15
1-654-010059-09	4-12, 4-14	170258	2-7
1-654-010059-13	1-6, 1-10	170291	1-7, 1-11, 5-6, 5-10
1-654-010059-15	3-2	171011	3-2
1-654-010059-21	7-5	171024	1-2, 1-4, 1-14, 3-2
1-654-010061-05	1-6, 1-10, 3-2	171063	1-6, 1-10
1-654-010061-09	1-18, 2-7, 5-8, 5-12	171070	3-2
1-654-010061-15	4-4	171080	6-25
1-654-010061-16	1-6, 1-10, 7-5	171081	6-25
1-654-010061-19	2-2	171556	1-6, 1-10
1-654-010061-21	5-14, 5-16, 5-18	172076	4-2, 4-16, 4-18, 4-20, 4-22, 4-24
1-654-010061-22	4-4	172509	4-2, 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
1-654-010061-25	5-8, 5-12	172519	9-57
1-654-010065-13	1-6, 1-10	172579	1-18
1-654-010065-15	2-4	172724	4-2
1-654-010070-02	4-2		
1-654-010070-04	9-42, 9-44, 9-52, 9-54		

172823	2-4	1-861-010032-07	1-2, 1-4
172885	9-28, 9-30, 9-32, 9-34	1-861-010032-08	1-2, 1-4
172891	4-6, 4-8, 4-10	1-861-010032-10	1-2, 9-57
172898	9-57	1-861-010032-11 ...	1-2, 1-4, 2-2, 2-4, 4-6, 5-6, 5-10
174435	7-5	1-861-010032-14	1-4, 1-6, 1-10, 4-2
174436	7-5	1-861-010032-18	7-5
174437	7-5	1-861-010032-19	4-12, 4-14
174438	7-5	1-861-010032-20	4-4, 4-8, 4-10, 4-12, 4-14, 5-6, 5-8, 5-10, 5-12, 5-14, 5-16, 5-18, 7-5
174439	7-5	1-861-010032-22	1-4
174526 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54		1-861-010032-24	2-2, 2-4, 3-6
174532 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54		1-861-010034-10	1-22
174695	2-2	1-861-010034-13	9-24, 9-26, 9-32, 9-34
174708	1-17	1-861-010034-17	2-4, 4-2, 9-36
174709	1-17	1-861-010034-21 .	9-18, 9-20, 9-22, 9-28, 9-30, 9-36
174732	4-4	186237	5-2
176930	9-57	186238	5-2
176997	5-20, 5-22, 5-24	188038	4-4
177030	2-5	188528	9-24, 9-26, 9-32, 9-34
177032	2-5	188530	1-6, 1-10, 9-24, 9-26, 9-32, 9-34
179348	7-5	188531	9-24, 9-26, 9-32, 9-34
1-796-010004-02	7-5	189284	1-2, 1-4
179933	1-11, 1-22	189451	2-2, 2-5
180088	4-20, 4-22	189453	2-5
180140	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	189454	2-5
180141	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	189467	2-5
183735	1-4	189468	2-5
183910	3-6	190956	9-46, 9-48, 9-52
183914	2-4	190957	9-46, 9-48, 9-52
184769	1-22	190958	9-46, 9-48, 9-52
184795	2-2	190960	9-38, 9-42, 9-44
185757 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54		191487	9-6, 9-8, 9-10, 9-12, 9-14, 9-16
186100	4-2, 4-16, 4-18, 4-20, 4-22, 4-24	191923 .	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34, 5-37, 5-39, 5-40, 5-43, 5-44
1-861-010003	3-8	191974	1-11, 1-22
1-861-010004	3-8	191976	1-22
1-861-010005	1-20, 3-4	191998	9-40
1-861-010032-06	1-22	192068	5-20, 5-22, 5-24

192487	5-22, 5-24	203005-8-8S	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-37, 5-39, 5-40, 5-41, 5-44, 5-47
192890	1-6, 1-10, 1-18	203102-8-8S	5-20, 5-22, 5-24, 5-26, 5-28, 5-37, 5-39, 5-40, 5-43, 5-44
193089	1-20, 3-4	203422	5-20, 5-22, 5-24
193130	1-6, 1-10, 2-2, 3-2	203467	1-6, 1-10, 5-2, 5-4
193131	1-6, 1-10, 3-2	203525	9-28, 9-30, 9-32, 9-34
193149	5-22, 5-26, 5-41, 5-47	203595	5-32
194115	5-32, 5-34	204386	1-6, 1-10, 3-2
194116	5-2, 5-34	204521	9-50, 9-54
195066	4-6	204533	4-4
195647	5-30, 5-32	2061-8-8S	5-4, 5-26, 5-28, 5-30, 5-32, 5-37, 5-39, 5-40, 5-43, 5-44, 5-45
198296	9-57	206209-8-8S	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-34, 5-43, 5-44, 5-47, 5-48
198319	9-24, 9-26, 9-32, 9-34	2062-10-8S	5-2, 5-4
198321	9-26, 9-34	2062-6-6S	9-57
198351	1-6, 1-10, 1-14	2062-6-8S	5-28
198404	3-2	2062-8-8S	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34, 5-37, 5-39, 5-40, 5-41, 5-42, 5-43, 5-44, 5-45, 5-47, 5-48, 9-57
1P292	5-30, 5-32, 5-34	206605	4-4
1P444	9-24, 9-26, 9-32, 9-34	206652	9-24, 9-26, 9-28, 9-32, 9-34
200218	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54	206671	6-25, 9-24, 9-26, 9-32, 9-34, 9-57
200222	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54	206673	6-25
200259	2-4, 4-4, 4-8, 4-10, 9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54	206679	2-2
200296	9-40, 9-44, 9-50	206709	4-6, 4-8, 4-10
200297	9-50	206724	2-7
200298	9-40, 9-48, 9-52	206730	2-7
200299	9-38, 9-40, 9-44, 9-48, 9-52	206731	2-7
201313	5-34	2071-8-8S	5-2, 5-22, 5-26, 5-28, 5-30, 5-32, 5-34, 5-37, 5-39, 5-40, 5-41, 5-44, 5-47
201765	9-4, 9-36	2-073-010012	2-4
201766	9-36	207808	2-4
201768	9-36	207850	2-2
202702-10-8S	5-4	207854	4-4
202702-6-6S	9-57	207873	1-4
202702-6-8S	5-20, 5-22, 5-24	207885	4-4
202702-8-6S	9-57	207918	4-4
202702-8-8S	5-2, 5-4, 5-20, 5-22, 5-24, 5-26, 5-28, 5-30, 5-32, 5-34, 5-36, 5-37, 5-39, 5-40, 5-41, 5-42, 5-43, 5-44, 5-47	207928	7-5
202902	5-26, 5-28		

207929	7-5	217568	1-14
207939	4-12, 4-14	217591	3-2
208291	9-57	217593	3-2
208479	5-22, 5-34	217626	3-2
208813	5-26, 5-28	217627	3-2
209393	4-2	217646	1-14
209618	4-12, 4-14	2-181-010001	1-2, 1-4, 2-2, 4-6, 5-6, 5-10, 9-57
209621	4-12, 4-14	218642	6-17
209622	4-12, 4-14	218643	6-15
209623	4-12, 4-14	219215	7-5
209641	9-38, 9-42, 9-48, 9-50, 9-52, 9-54	219730	4-8, 4-10
209726	1-2, 9-57	219731	4-10
2-102-010032	1-2	219776	8-3
210266	5-28, 5-30, 5-32	219778	2-4
210267	5-32	219788	1-2, 1-4
211345	5-32	219789	1-2, 1-4
211926	2-2	219795	1-14, 3-2
211928	2-2	221224	4-6
211933	2-2	221274	2-2
211960	5-10	223435	1-20, 3-4
212800	4-24	223437	1-20, 3-4
212801	4-24	223438	1-20, 3-4
213829	7-5	223439	1-20, 3-4
2-150-010008	2-4	223440	1-6, 1-10, 1-20, 3-2, 3-4
2-150-010174	1-6, 1-10, 2-4, 3-2, 4-4, 4-8, 4-10	223525	1-14
2-150-010218	1-18	223526	1-6, 1-10, 1-14
215350	2-2, 3-2	223528	1-6, 1-10
215352	3-2	223599	1-11
215383	4-20, 4-22	223645	9-38, 9-40, 9-42, 9-46, 9-48, 9-50
215384	4-16	224589	7-5, 8-3
215388	4-22, 4-24	224590	7-5
215389	4-16, 4-18, 4-20, 4-24	224600	3-6, 3-8
215391	4-18	225087	2-2
215411	4-8, 4-10	225097	4-6, 4-8, 4-10
217050	5-2	225123	9-40, 9-44, 9-50, 9-54
217559	3-2	225124	9-50, 9-54
217560	1-14	225125	9-40, 9-44, 9-46, 9-52
217561	1-14	225126	9-38, 9-40, 9-42, 9-46, 9-52

225127	9-38, 9-46, 9-50, 9-52	2-368-010273	7-5
226589	1-7, 1-11, 6-7, 6-8, 6-23	2-368-010287	2-2, 7-5
226605	6-23	239599	1-11
226607	6-4, 6-6	239600	1-11
226610	6-6	240161	6-26
226614	6-4, 6-6	240609	2-4
226615	6-2, 6-4, 6-6, 6-20	240687	9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34
226616	6-4, 6-6	243053	2-4
228265	9-57	243123	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
229552	6-4	244513	5-8, 5-12, 5-16
229553	6-4, 6-6	246756	4-2
229558	6-2, 6-20	246806	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
229559	6-2, 6-7, 6-8, 6-20	246860	5-6, 5-10
229560	6-2, 6-7, 6-20	246885	1-4
229561	6-2, 6-7, 6-20	246886	1-4
229565	6-10, 6-12, 6-16, 6-18	246887	1-4
229851	1-6, 1-10, 1-17	247227	8-3
229852	1-17	2-474-010022	5-22, 5-24, 5-26, 5-28, 5-41, 5-42, 5-45, 5-47, 5-48, 9-57
23085	3-2, 3-6, 4-2, 4-6	247534	1-6, 1-10, 5-20, 5-22, 5-24, 5-26, 5-28, 6-9
230890	5-16, 5-26, 5-28, 6-26	247534M	6-10
231792	6-10, 6-12, 6-16, 6-18	247535	1-6, 1-10, 5-20, 5-22, 5-24, 5-26, 5-28, 6-11
231802	6-8	247535M	6-12
231803	6-8	247538	4-4, 5-30, 5-32, 6-5
231852	5-2	247538M	6-6
232179	8-3	247548	4-10, 5-32, 5-34, 6-13
232464	9-57	247549	3-2, 4-10, 5-2, 5-4, 5-32, 5-34, 6-1, 6-19
234416	6-12, 6-16	247549M	3-2, 6-2, 6-20
234417	6-12, 6-16	247550	1-6, 1-10, 4-4, 5-2, 5-4, 5-32, 5-34, 6-3
234418	6-12, 6-16	247550M	6-4
234419	6-10, 6-18	249821	1-2
234420	6-10, 6-18	249822	1-4
234421	6-10, 6-18	249823	1-4
234422	6-23	249850	1-6
234423	6-23	249852	1-10
234424	6-23	249854	3-2
234869	7-5		
236072	1-15		
236645	9-44, 9-52, 9-54		

249855	3-2	249974	5-16, 5-18
249856	3-2	249976	5-8, 5-12, 5-16
249857	3-2	249980	4-6
249859	1-6	249990	2-4, 2-7
249861	1-10	249991	2-7
249862	4-16, 4-18, 4-20	249993	2-4
249863	4-16, 4-18, 4-20	249995	2-4
249864	4-16, 4-18, 4-20	250200	4-4
249865	4-16, 4-18, 4-20	250201	4-4
249866	4-22, 4-24	250202	4-4
249867	4-22, 4-24	250203	4-4
249868	4-22, 4-24	250204	4-4
249869	4-22, 4-24	250205	4-4
249874	4-16	250206	4-4
249875	4-16	250207	4-4
249876	4-18	250209	4-4
249877	4-18	250210	4-4
249878	4-20, 4-22	250211	4-4
249879	4-20, 4-22	250212	4-4
249880	4-24	250213	4-4
249881	4-24	250218	5-16
249894	3-2	250219	5-16
249895	3-2	250221	1-4
249896	3-2	250225	4-10
249897	3-2	250226	4-10
249898	3-2	250229	4-8, 4-10
249899	3-2	250230	4-14
249910	4-4	250233	4-12, 4-14
249912	4-4	250236	4-10
249913	4-4	250237	4-8, 4-10
249920	4-4	250245	4-4
249921	4-4	250246	4-4
249922	4-4	250248	4-6
249923	4-4	250275	2-2
249970	5-10, 5-16	250287	5-20, 5-37
249971	5-10, 5-18	250288	1-2, 5-2, 5-22, 5-24, 5-30, 5-32, 5-34, 5-39, 5-40
249972	5-16, 5-18	250289	1-4, 5-4, 5-26, 5-28, 5-43, 5-44
249973	5-16, 5-18		

250290	5-26, 5-28, 5-45	251999	5-14, 5-16, 5-18
250291	1-2, 5-22, 5-24, 5-41, 5-42	252919	6-11
250292	1-4, 5-26, 5-28, 5-47, 5-48	252920	6-9, 6-11
250293	5-16, 5-18	252921	6-11
250297	1-2, 1-4	252922	6-9, 6-11
250299	8-3	252924	6-13
250304	1-4	252927	6-1, 6-13, 6-19
250307	4-12, 4-14	252929	6-1, 6-19
250314	4-16	252932	6-3, 6-5
250315	4-18	252933	6-3, 6-5
250316	4-20	252934	6-3, 6-5
250317	4-22	252935	6-3, 6-5
250318	4-24	252936	6-3
250320	4-16	252937	6-1, 6-13, 6-19
250321	4-18	252938	6-1, 6-19
250322	4-20	252939	6-1, 6-19
250323	4-22	252940	6-13
250324	4-24	252941	6-13
250388	5-12, 5-14	252942	6-9
250389	5-12, 5-14	252943	6-9
250390	5-8, 5-12, 5-14	252945	6-9
251950	5-10, 5-12	252946	6-11
251951	5-10, 5-14	252949	6-5
251952	5-8, 5-12, 5-14	253422	9-2
251953	5-8, 5-12, 5-16	253423	9-2
251960	5-8, 5-12, 5-16	253424	9-2
251962	5-16	253425	9-4
251963	5-34	253426	9-4
251964	2-2	253434	9-6
251967	1-18	253435	9-6
251968	1-18	253436	9-6
251970	8-3	253437	9-10
251972	5-2, 5-4	253438	9-10
251973	5-20, 5-22, 5-24, 5-26, 5-28	253440	9-6
251974	5-36	253441	9-6
251975	5-30, 5-32, 5-34	253442	9-6
251976	9-57	253443	9-10
251998	1-2	253444	9-10

253446	9-8	254277	4-8, 4-10, 5-30, 5-32, 6-8
253447	9-8	254278	4-8, 4-10, 5-30, 5-32, 6-7
253448	9-8	254306	5-6, 5-20
253449	9-12	254323	6-8
253450	9-12	254930	9-28, 9-30, 9-32, 9-34
253452	9-8	254938	9-18, 9-20, 9-22, 9-24, 9-26, 9-28, 9-30, 9-32, 9-34
253453	9-8	254945	9-28, 9-30, 9-32, 9-34
253454	9-8	254946	9-28, 9-30, 9-32, 9-34
253455	9-12	254947	9-2, 9-4, 9-6, 9-8, 9-10, 9-12, 9-14, 9-16, 9-22, 9-26, 9-30, 9-34
253456	9-12	254948	9-22, 9-26, 9-30, 9-34
253469	1-6, 1-10	254950	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
253470	1-6, 1-10, 1-18	254951	9-18, 9-20, 9-22, 9-24, 9-26
253471	1-18	254959	5-20, 5-22, 5-24
253472	1-18	254960	5-20, 5-22, 5-24
253473	1-18	254961	4-6, 4-8, 4-10
253474	2-4	254966	9-6, 9-38
253475	2-4	254969	9-6, 9-46
253476	2-4	254970	9-6, 9-46
253480	4-8, 4-10	254971	9-6, 9-10, 9-46
253561	2-2	254975	9-6, 9-46
253566	5-2, 5-4	254976	9-6, 9-46
253567	5-26, 5-30, 5-32	254977	9-6, 9-10, 9-46
253568	5-26, 5-28	254979	9-10, 9-50
253569	5-28	254981	9-10, 9-40
253570	1-2, 5-30, 5-32	254985	9-8, 9-38
253571	5-6, 5-10	254988	9-8, 9-48
253572	5-8, 5-12, 5-14	254989	9-8, 9-48
253573	4-4	254990	9-8, 9-12, 9-48
253574	1-11	254994	9-8, 9-48
253575	1-11, 1-14	254995	9-8, 9-48
253576	1-14	254996	9-8, 9-12, 9-48
253580	1-15	254998	9-12, 9-50
253583	7-5	255000	9-12, 9-40
253584	7-5	255010	9-14, 9-52
253585	7-5	255011	9-14, 9-52
253594	1-2, 5-30, 5-32	255012	9-14, 9-16, 9-52
253597	5-14, 5-18, 7-5		
253598	5-10, 7-5		

255015	9-14, 9-52	256070	5-20
255016	9-14, 9-52	256071	9-57
255017	9-14, 9-16, 9-52	256072	1-4
255018	9-14, 9-42	256073	1-4
255019	9-16, 9-54	256074	1-4
255021	9-16, 9-44	256100	5-20, 5-24, 5-28, 5-37, 5-40, 5-44
255035	4-8	256102	5-24
255036	4-8	256701	6-7
255041	4-8	2-573-010037	8-3
255046	4-12	2-573-010198	8-3
255063	7-5	2-573-010330-02	4-2
255064	1-4, 5-34	2703-LN-6	9-57
255067	9-18, 9-20, 9-22, 9-24, 9-26	29SFFL 5811	2-2
255069	1-22	2P140	5-2, 5-4
255084	9-14	2P793	4-4
255085	9-14	3/4-10X9-1/2CS8	4-8, 4-10, 4-12, 4-14
255086	9-14	3067	1-22
255087	9-16	3P079	2-4
255088	9-16	4001060	1-20, 3-4
255090	9-14	434020	1-18
255091	9-14	5000	1-20, 3-4, 4-25, 9-36
255092	9-14	5000858	5-26, 5-28, 5-30, 5-32
255093	9-16	500171	2-6
255094	9-16	5013	1-22
2-557-010262	4-6	528933	7-5, 8-3
256048	1-15	528934	1-2, 1-4, 7-5, 8-3
256050	5-8, 5-12, 5-20, 5-22, 5-24	528938	7-5, 8-3
256053	5-8, 5-12	6-102-010009	9-36
256057	5-6, 5-8	70239854	1-2, 1-4
256058	5-8	70260977	7-5, 8-3
256059	5-8	71500165	9-57
256061	9-57	71508954	5-26, 5-28
256062	9-57	71508985	5-26, 5-28
256063	9-57	71508988	5-4
256064	9-57	71509000	5-2, 5-20
256065	9-57	71509004	9-57
256068	5-34	71509125	9-57
256069	5-4	71509382	5-32

71510821	5-34
71600088	5-4
7779-84	9-57
7779-90	9-57
7K723	1-15
8-102-010012 ...	9-38, 9-40, 9-42, 9-44, 9-46, 9-48, 9-50, 9-52, 9-54
8-105-010003	3-6
8-573-010084	8-3

H

HM212011	1-22
HM212049	1-22
HM218210	1-22
HM218248	1-22

T

TR416	1-11, 3-6
TR575	1-6, 1-10, 3-2

W

W908409-4	5-16, 5-18
-----------------	------------

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 data plate, which lists the model number and serial number, is located on the front of the frame

See Figure 1-1.

SERIAL NUMBER NOMENCLATURE

The Following information will help decode the 7531 Adj. VT Plus serial number

75H2500100 = xxmyysssss

The 7500 series QR code decal, may be scanned to link to the most current manuals, located on the front of the frame *See Figure 1-1.*

xx	= model series (i.e. 75 for Adjustable VT Plus)
m	= month of manufacture (ex. "H" means October. The letter I is not used.)
yy	= year manufactured (ex. "25" means 2025)
sssss	= Sequential number used to track warranty and service information.

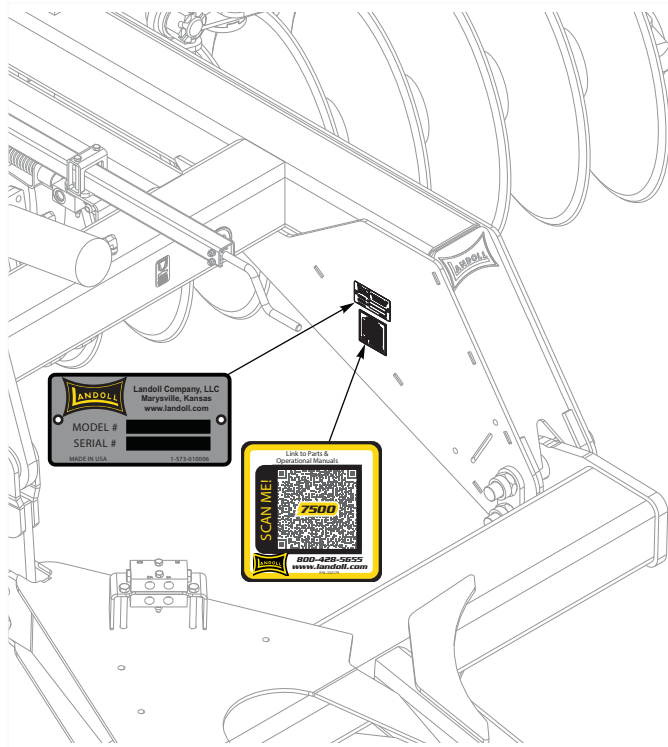


Figure 1-1: Data Plate and QR Code Decal Location

Manuals for 7531 VT Plus

Manual Number	Manual Type
F-1188	Operator's Manual
F-1189	Parts Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
04/04/2025	F-1189	New Manual
10/14/2025	Fi1189-2510	Initial Release



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

Model 7531

Adjustable VT Plus

Parts Manual

Re-Order Part Number F-1189

LANDOLL COMPANY, LLC

1900 North Street
Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM



Copyright 2025. Landoll Company, LLC

“All rights reserved, including the right to reproduce this material or portions thereof in any form.”

