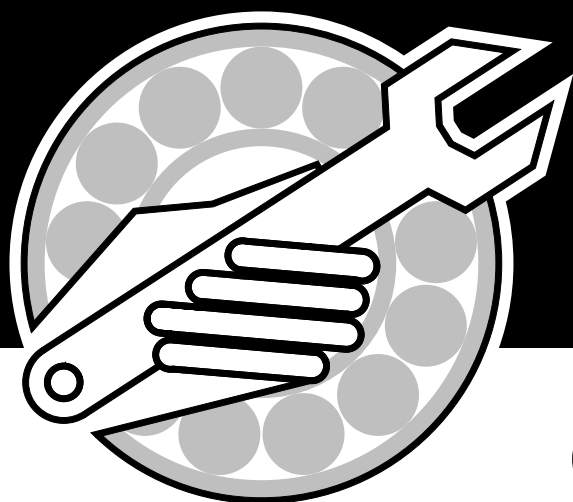




Parts Manual



CX 8105 Air Drill

Part Number N50162-03A

IMPORTANT:

ALL ITEMS ARE IDENTIFIED WITH A PART NUMBER. Some of the smaller parts such as bolts, nuts, washers, etc. are not all shown, however, the quantity used are listed in the text for that section which they fit into. That particular quantity is always the quantity required for one complete assembly.

Smaller parts, which are welded together to construct a larger part, are not to be ordered as individual pieces, unless they have a part number to identify them.

Contact your nearest dealer for genuine repair parts. Dealers carry ample stock and are backed by the manufacturer and regional associations.

MORRIS PAINT

Spray Cans:

Part Number	Description
W-4647	Red Spray Can
N31087	Sky White Spray Can

Litre Cans:

Part Number	Description
Z-10	Red Paint/Litre

MANUALS

Part Number	Description
N50160	Operator's Manual - VRT
N50161	Assembly Manual - VRT
N62398	Operator's Manual - Ground Drive
N62399	Assembly Manual - Ground Drive

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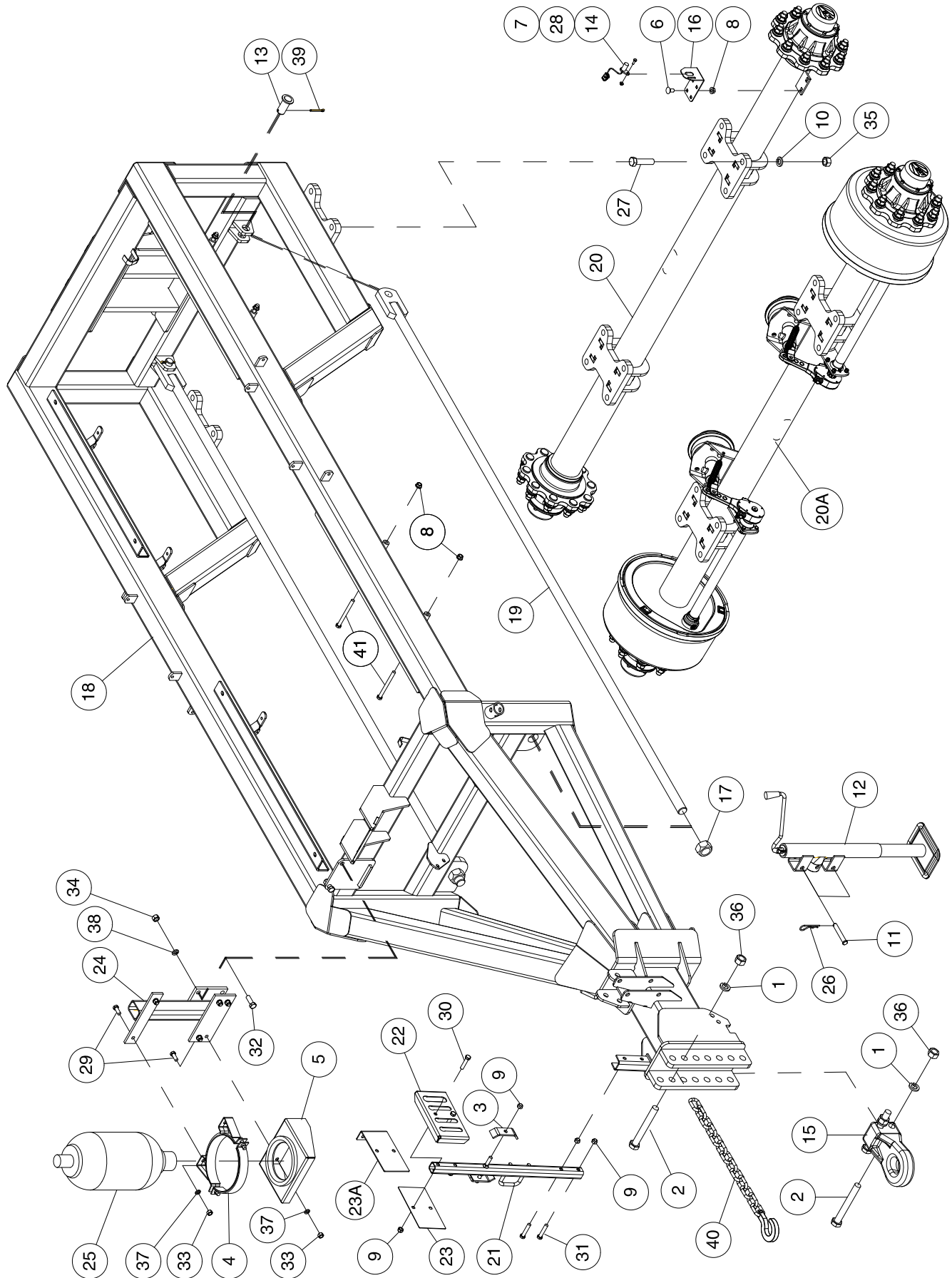
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Cart

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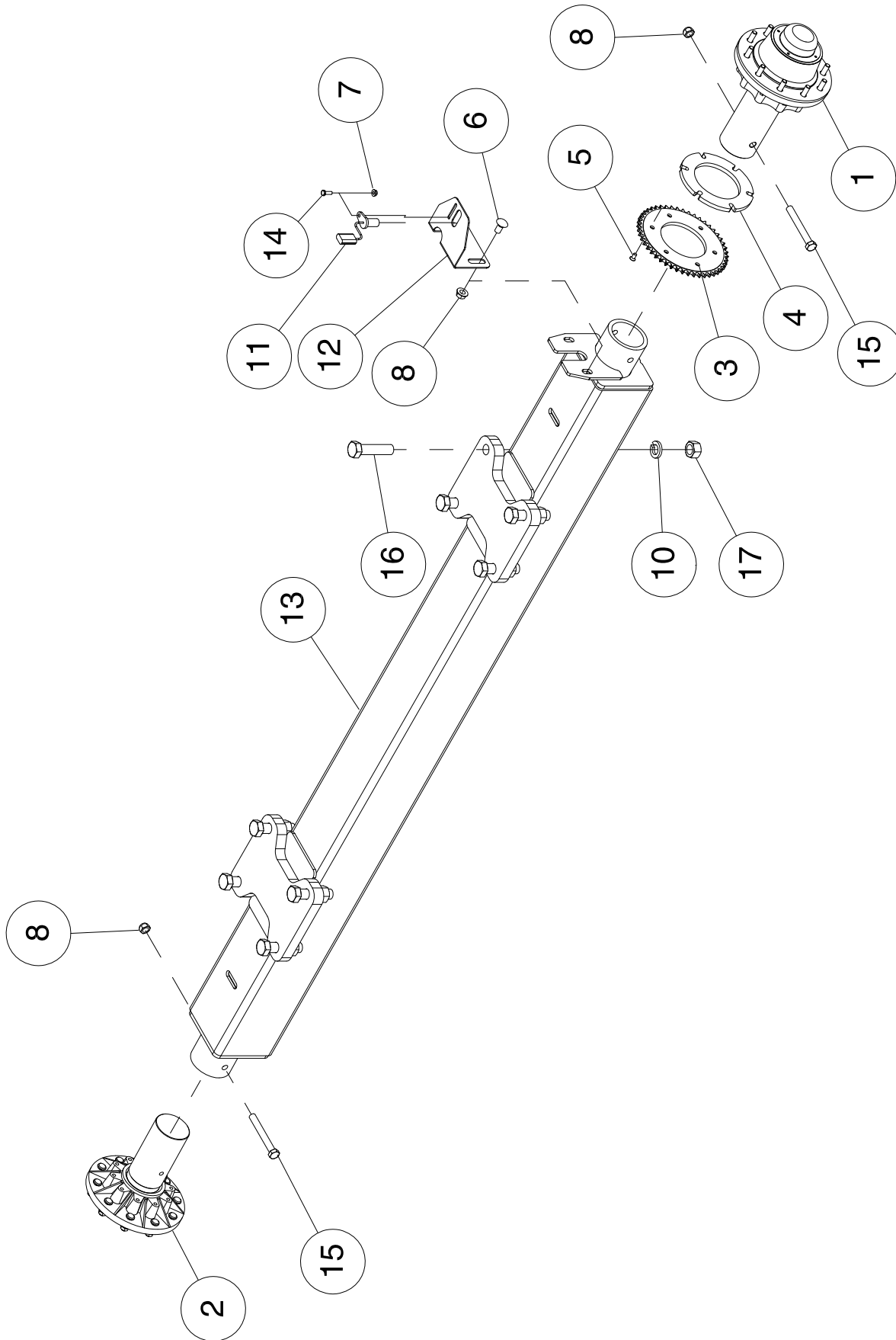
Cart Frame



Cart - Frame

Item	Part No.	Description	Qty
1	C-705	Lockwasher - 1	3
2	C18597	Hex Bolt - 1 x 8 Lg.....	3
3	C26321	Hose Holder Clamp.....	2
4	C42313	Clamp Bracket.....	1
5	C42314	Base Bracket With Rubber	1
6	D-5265	Carriage Bolt - 1/2 x 1 Lg (VR Drive Only)	2
7	D-5277	Serrated Flange Lock Nut - 1/4 (VR Drive Only)	1
8	D14565	Serrated Flange Lock Nut - 1/2 (VR Drive Only)	2
9	F-3405	Unitorque Locknut - 1/2	5
10	F10813	Lockwasher - 7/8.....	8
11	H10462	Pin - 0.621 x 3 5/8 UL	2
12	H27963	Top Wind Jack - 7000 Lb	1
13	N28997	Pin - 1 1/4 Dia x 2 1/4 UL	2
14	N29307	Hall Effect Sensor (VR Drive Only)	1
15	H27959	Hitch Clevis - CAT 3	1
	N33748	Hitch Clevis - CAT 4	
16	N67225	Sensor Mount (VR Drive Only) - 2019 to Present	1
	N37330	Sensor Mount (VR Drive Only) - Prior to 2019	
17	N37349	Full Collar Locknut - 1 1/2	2
18	N47220	Frame	1
19	N48121	Tie Rod.....	2
20	N66766	Axle - No Brakes - 2019 to Present	1
	N49105	Axle - No Brakes - Prior to 2019 - See Page 1-4 for details	
20A	N66765	Axle - Hydraulic/Air Brake - 2019 to Present	1
	N55165	Axle - Hydraulic/Air Brake - Prior to 2019	
	N68607	Emergency and Park Brake Option for N66765 - Western Europe (Not Shown)	
21	S39665	Hose Holder	1
22	S39666	Hydraulic Hose Plate.....	1
23	S39669	Back Plate - No Brakes	1
23A	N55166	Back Plate - Hydraulic/Air Brake	1
24	S42320	Accumulator Mounting Bracket	1
25	S47094	2.5 Gallon Hydraulic Accumulator - Global Certified	1
26	W-131	Hairpin - #9 - .148 x 3.313 Lg.....	2
27	W-234	Hex Head Bolt - 7/8 x 3 1/2 Lg	8
28	W-469	Hex Head - 1/4 x 3/4 Lg (VR Drive Only)	1
29	W-485	Hex Bolt - 1/2 x 1 1/4 Lg.....	6
30	W-489	Hex Bolt - 1/2 x 2 1/4 Lg.....	2
31	W-490	Hex Bolt - 1/2 x 2 1/2 Lg.....	1
32	W-498	Hex Bolt - 5/8 x 1 3/4 Lg.....	2
33	W-516	Hex Nut - 1/2	6
34	W-517	Hex Nut - 5/8	2
35	W-519	Hex Nut - 7/8	8
36	W-520	Hex Nut - 1	3
37	W-525	Lockwasher - 1/2.....	6
38	W-526	Lockwasher - 5/8.....	2
39	W-4181	Cotter Pin - 1/4 x 2 Lg	2
40	C18761	Safety Chain - 40,000 lbs.....	1
41	W-496	Hex Bolt - 1/2 X 5 1/2 Lg.....	4

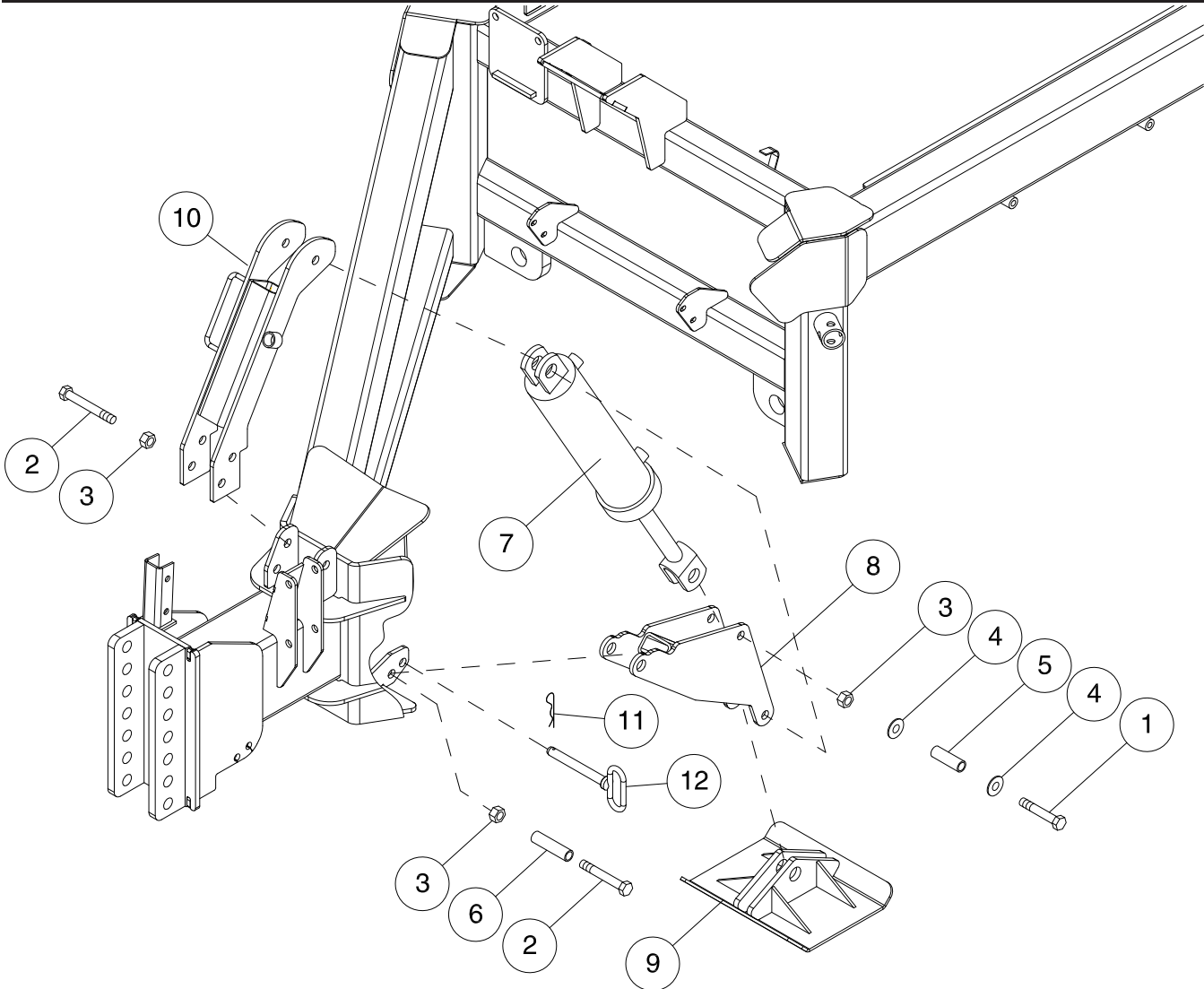
Cart Axle Assembly - Prior to 2019



Cart - Axle Assembly - Prior to 2019

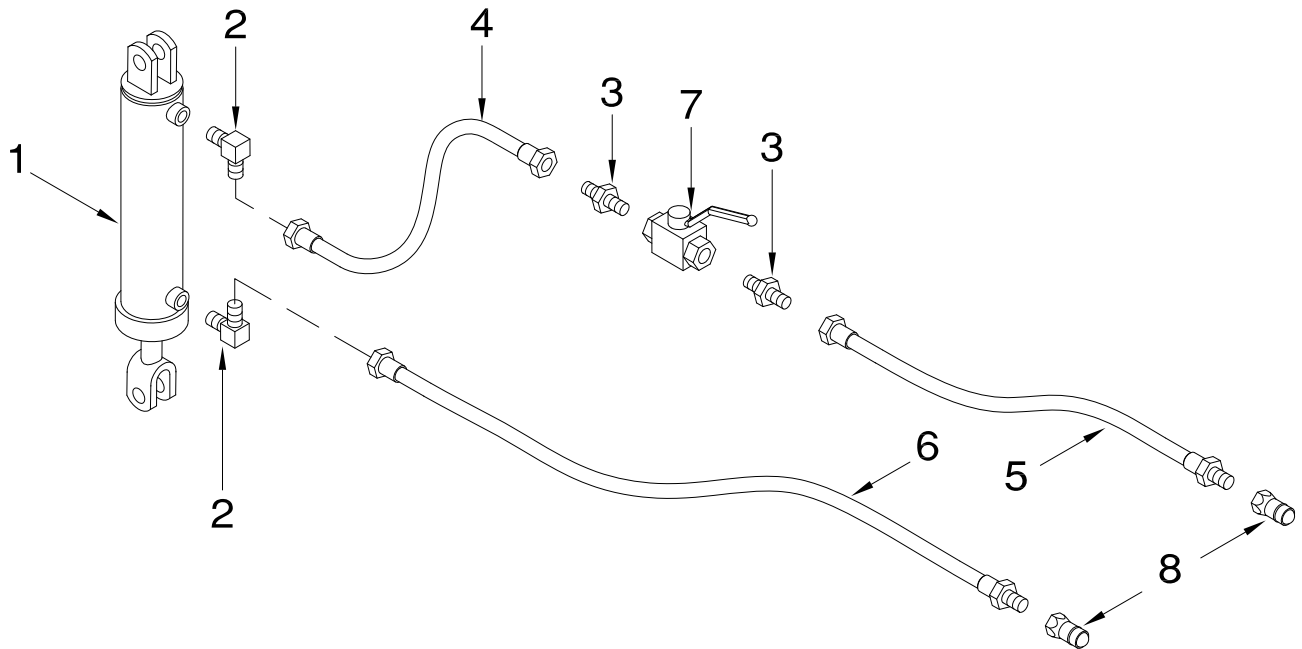
Item	Part No.	Description	Qty
1	N21731	Drive Hub Assembly - See Section 3	1
2	N21732	Non-Drive Hub Assembly - See Section 3	1
3	N24774	Sprocket - 60A48 - 6 Dia Bore	1
4	N24779	Spacer Ring	1
5	N24780	Hex Socket Cap Screw - 1/2 x 1 3/4	6
6	D-5265	Carriage Bolt - 1/2 x 1 Lg (VR Drive Only)	2
7	D-5277	Serrated Flange Lock Nut - 1/4 (VR Drive Only)	1
8	D14565	Serrated Flange Lock Nut - 1/2 (VR Drive Only)	2
9	F-3405	Unitorque Locknut - 1/2	2
10	F10813	Lockwasher - 7/8.....	8
11	N29307	Hall Effect Sensor (VR Drive Only)	1
16	N37330	Sensor Mount (VR Drive Only) - Prior to 2019	1
13	N49105	Axle Extension	1
14	W-469	Hex Head - 1/4 x 3/4 Lg (VR Drive Only)	1
15	S-951	Hex Bolt - 1/2 x 4 1/2 Lg.....	6
16	W-234	Hex Head Bolt - 7/8 x 3 1/2 Lg	8
17	W-519	Hex Nut - 7/8.....	8

Cart Hydraulic Hitch Jack



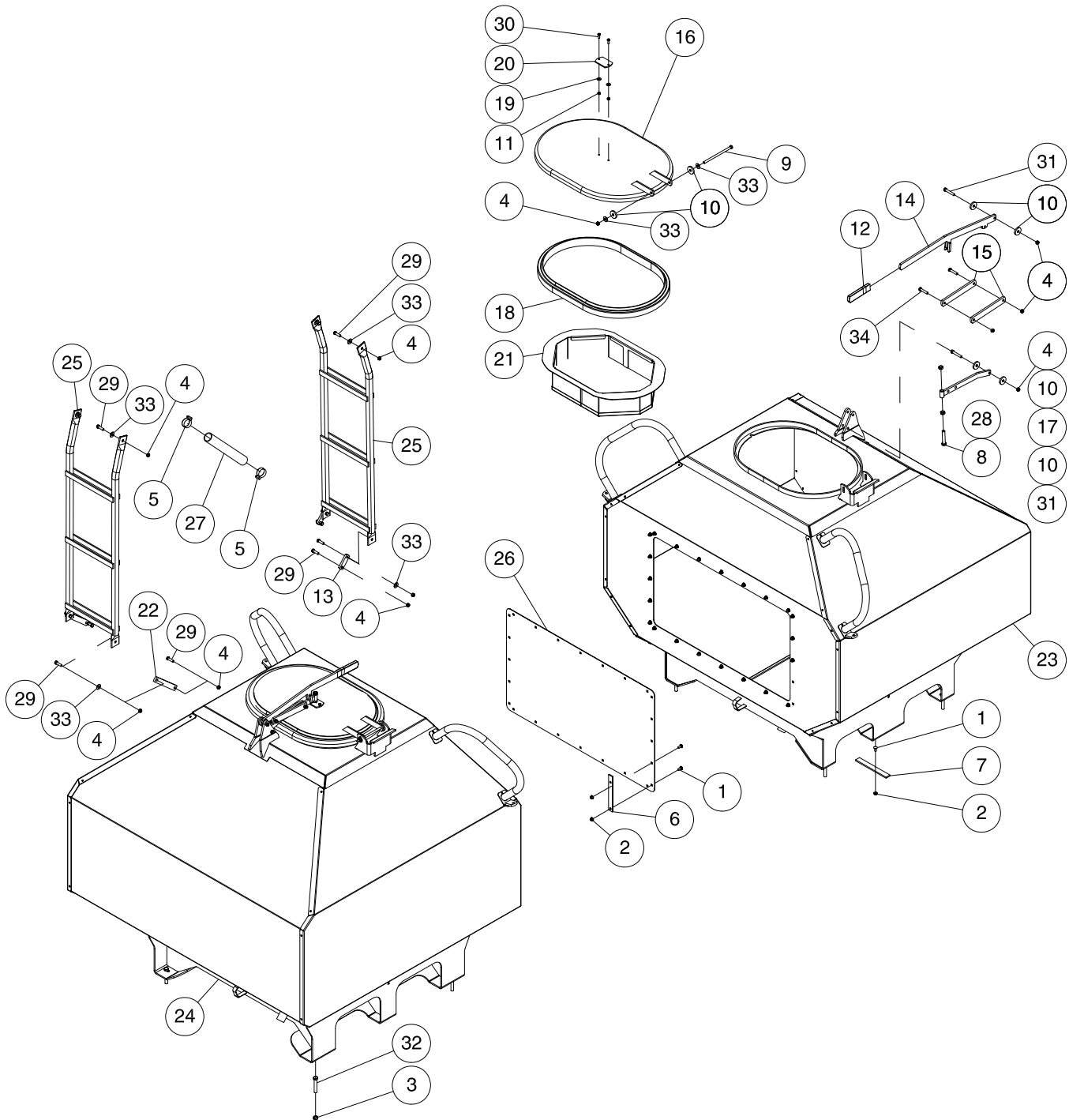
Item	Part No.	Description	Qty
1	S-1191	Hex Head Bolt - 3/4 x 5 Lg.....	3
2	S51006	Hex Head Bolt - 3/4 x 6 1/8 Lg.....	3
3	D-5275	Lock Nut - 3/4.....	6
4	S26462	Washer - 1 9/32 ID x 2 1/2 OD x 3/8 Thick.....	6
5	N34354	Bushing - 23/32 ID x 1 1/4 OD x 3 1/16 Lg	3
6	S40591	Bushing - 23/32 ID x 1 OD x 3 15/16 Lg	1
7	C33879	Cylinder - 4 x 14 GBP	1
8	N49760	Arm - Hydraulic Jack	1
9	N47738	Foot- Hydraulic Jack.....	1
10	N49755	Mount Arm- Hydraulic Jack	1
11	BW-11	Hair Pin - # 8 - .188 x 3.75 Lg	1
12	N33404	Lock Pin - 3/4 Diameter	1

Hydraulic Hitch Jack Hydraulics



Item	Part No.	Description	Qty
1	C33879	Cylinder - 4 x 14	1
2	C24585	Elbow - 90 Degree - 3/4-16 MORB x 7/8-14 MJIC	2
3	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	2
4	N34366	Hyd Hose - 1/2 x 12 Lg w/7/8-14 FJIC	1
5	N49761	Hyd Hose - 3/8 x 76 Lg w/ 7/8-14 MORB x 7/8-14 FJIC	1
6	N49762	Hyd Hose - 3/8 x 90 Lg w/ 7/8-14 MORB x 7/8-14 FJIC	1
7	N42880	Valve - 2 Way Ball.....	1
7A	N42881	Handle - Valve	1
8	N34498	Male Pioneer Tip - 7/8-14 FORB.....	2

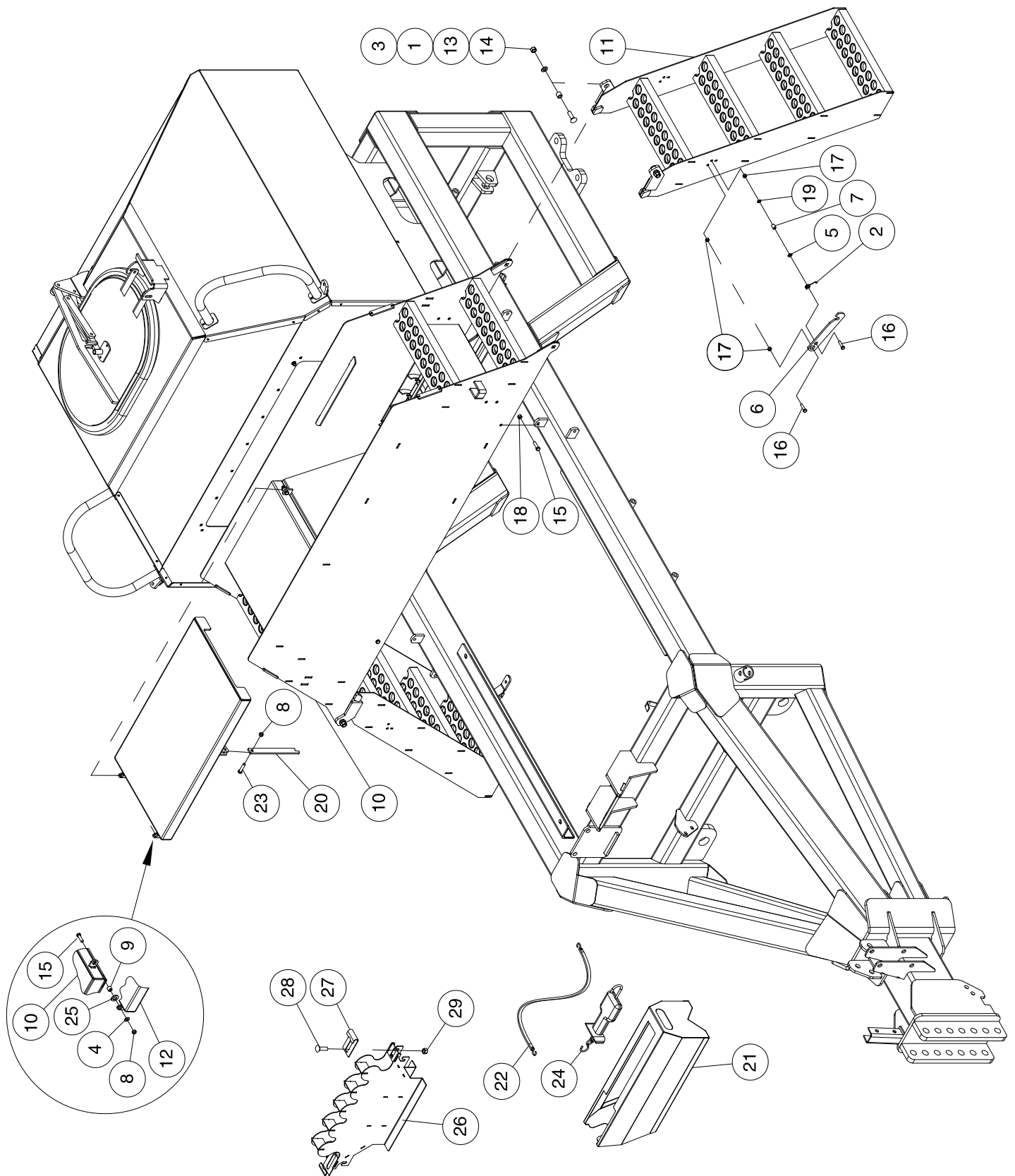
Cart Tanks



Cart - Tanks

Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	72
2	D-5278	Flange Lock Nut - 5/16.....	72
3	F-3405	Unitorque Locknut - 1/2	8
4	M-3388	Unitorque Locknut - 3/8	22
5	N11906	Hose Clamp - 1 1/2 Dia.....	4
6	N13900	Seal Strip 3/16 x 1 3/4 (Bulk/Ft) (22 ft)	2
7	N15716	Seal Strip 1/4 x 1 (Bulk/Ft)	2
8	N19127	Lid Bolt - .5 x 2 13/16 Lg	2
9	N19678	Hex Bolt - 3/8 x 7 Lg.....	2
10	N21266	Wear Washer - 7/16 ID x 1 1/2 OD x 1/4	12
11	N22778	Locknut - 1/4 Nylon Insert	4
12	N32769	Handle Cover	2
13	N37623	Lug	2
14	N37651	Tank Handle	2
15	N37654	Link	4
16	N37655	Tank Lid	2
17	N37659	Link	2
18	N37711	Large Tank Lid Seal	2
19	N40748	Washer - 17/64 ID x 3/4 OD x 0.062	4
20	N40778	Lid Protector	2
21	N42190	Tank Screen	2
22	N45027	Link	2
23	N47200	Rear Tank	1
24	N47210	Front Tank	1
25	N47270	Inner Tank Ladder.....	2
26	N48125	Cover Panel.....	2
27	R480056	Hose - 1 1/2 ID x 84 LG Bulk Per Ft.....	2
28	S-1292	Hex Jam Nut - 1/2	4
29	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	12
30	W-469	Hex Head - 1/4 x 3/4 Lg	4
31	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.....	4
32	W-492	Hex Bolt - 1/2 x 3 Lg.....	8
33	W-538	Washer - 7/16 ID x 1 OD x 14 Ga.....	12
34	W-619	Hex Bolt - 3/8 x 1 3/4 Lg.....	4

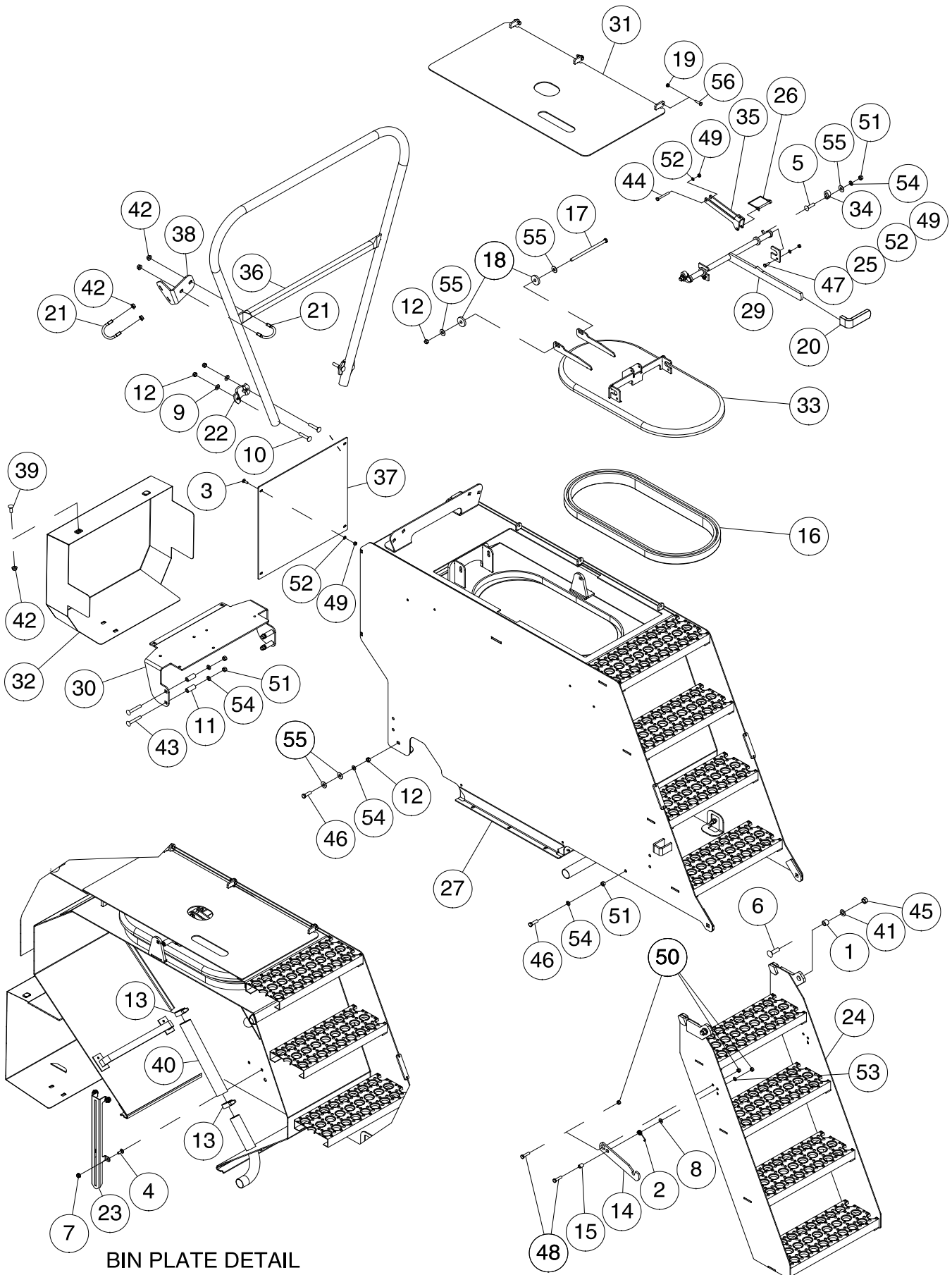
Cart Steps



Cart - Steps

Item	Part No.	Description	Qty
1	D-5064	Bushing - 3/4 OD x .120W	5
2	D-5098	Spring - .075 Dia Oil Tempered	2
3	D-5267	Carriage Bolt - 1/2 x 1 3/4 Lg	4
4	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga.....	2
5	D-5488	Washer - 11/32 ID x 11/16 OD x 16 Ga	2
6	N19211	Ladder Lock Arm.....	2
7	N19366	Bushing - 1/2 OD x .334 ID	2
8	M-3388	Locknut - 3/8 Unitorque.....	3
9	N19155	Spacer - 0.385 ID x 0.625 OD.....	2
10	N47250	Upper Stairway.....	1
11	N47255	Lower Stairway.....	2
12	N47260	Walkway Lid	1
13	S-1925	Flat Washer - 17/32 ID x 1 OD x 13 Ga.....	5
14	S47110	Hex Nut - 1/2 Center Lock.....	4
15	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	6
16	W-472	Hex Bolt - 5/16 x 1 1/4 Lg.....	4
17	W-513	Hex Nut - 5/16	6
18	W-514	Hex Nut - 3/8	4
19	W-522	Lockwasher - 5/16	2
20	N49770	Lock Arm	1
21	N50040	Sample Tray	1
22	N19563	Tie Strap.....	1
23	W-477	Hex Bolt - 3/8 x 1 1/2 Lg.....	1
24	N42220	Digital Hanging Scale.....	1
25	W-629	Flat Washer - 21/32 ID x 1 5/16 OD x 13Ga.....	2
26	N49129	Calibration Insert.....	1
27	N50869	Slide	1
28	D-5265	Carriage Bolt - 1/2 x 1 Lg	1
29	N37907	Flange Lock Nut - 1/2 W/Center Lock	1

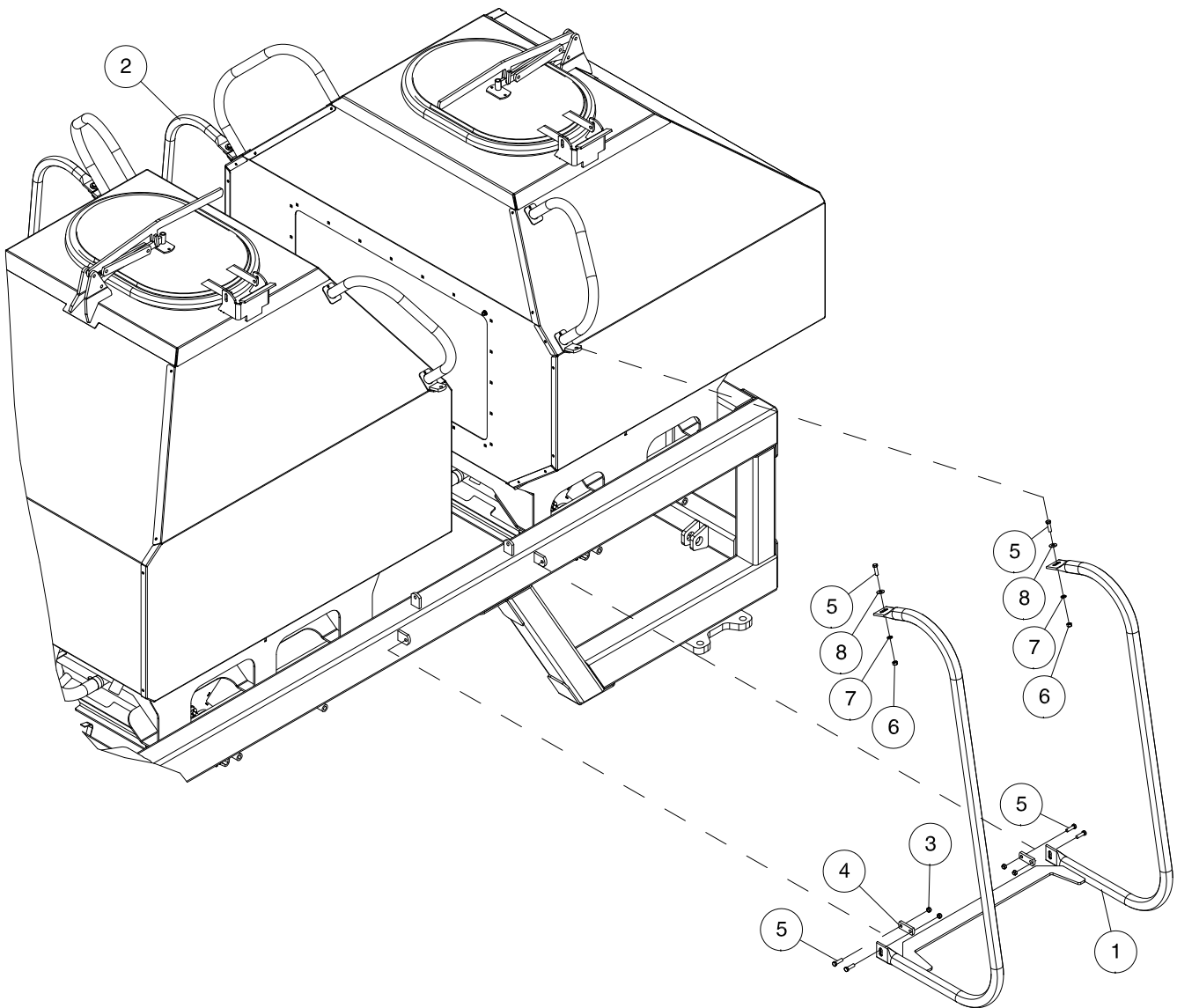
Cart Third Tank - Option



Cart - Third Tank - Option

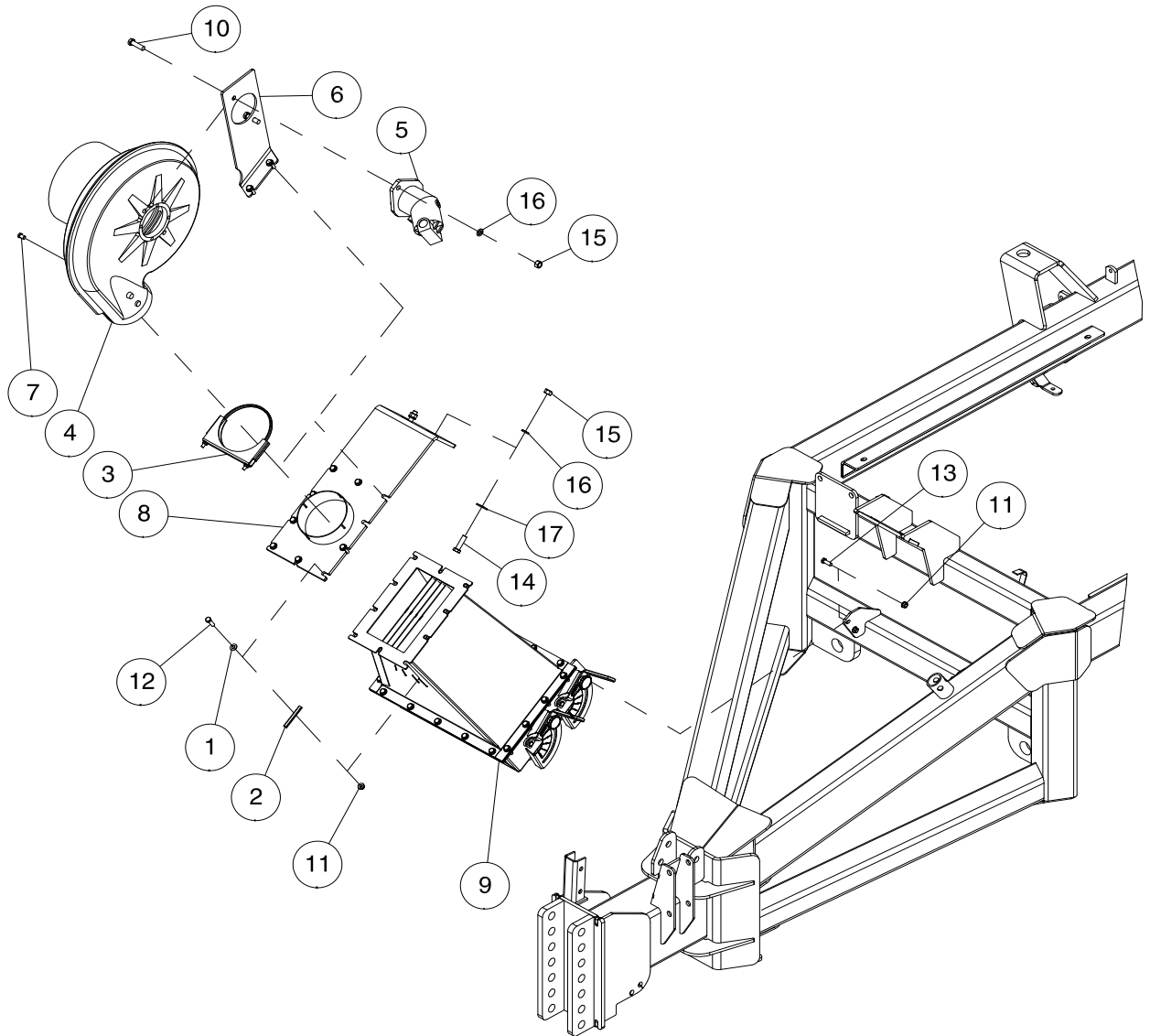
Item	Part No.	Description	Qty
1	D-5064	Bushing - .510 ID x 3/4 OD x 5/8 Lg	2
2	D-5098	Spring - .075 Dia	1
3	D-5258	Carriage Bolt 1/4 x 3/4 Lg	4
4	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	4
5	D-5261	Carriage Bolt - 3/8 x 1-1/2 Lg	2
6	D-5267	Carriage Bolt - 1/2 x 1-3/4 Lg	2
7	D-5278	Flange Lock Nut - 5/16	4
8	D-5488	Washer - 11/32 ID x 11/16 OD x 16 Ga	1
9	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga	4
10	D12821	Carriage Bolt - 3/8 x 2 Lg	4
11	D17958	Spacer - 385 ID x 5/8 OD x 1 1/2 Lg	4
12	M-3388	Locknut - 3/8 Unitorque	7
13	N11906	Hose Clamp - 1 1/2 Dia	2
14	N19211	Lock Arm	1
15	N19366	Bushing - .334 ID x 1/2 OD x 5/8 Lg	1
16	N19496	Tank Lid Seal	1
17	N19678	Hex Bolt - 3/8 x 7 Lg	1
18	N21266	Wear Washer - 7/16 ID x 1 1/2 OD x 1/4 Thick	2
19	N22778	Locknut - 1/4 Nylon Insert	3
20	N32769	Handle Cover - Grip	1
21	N37619	U-Bolt - 3/8 x 2-1/8 x 2-1/16	2
22	N37622	U-Clamp Plate	2
23	N40899	Adjustment Plate	1
24	N47255	Lower Stairway	1
25	N48612	Bearing Plate	2
26	N53471	Quick Pin - 1/4	1
27	N56220	3rd Tank	1
28	N56230	Tank Lid Weldment	1
29	N56465	Tank Handle	1
30	N56493	Panel - Valve Mount	1
31	N56570	Walkway Lid	1
32	N56733	Transmission Guard	1
33	N56930	Third Tank Lid Assembly	1
34	N56997	Cam Bushing	2
35	N56998	Lock Arm - 3rd Tank	1
36	N58055	Handrail - End	1
37	N58058	Cover Panel	1
38	N58131	Handrail Brace	1
39	P7C616	Carriage Bolt - 3/8 x 1 Lg	2
40	R48005	Hose - 1 1/2 ID Bulk Per Ft	1
41	S-1925	Flat Washer - 17/32 ID x 1 OD x 13Ga	2
42	S27987	Flange Lock Nut - 3/8 W/Center Lock	6
43	S28159	Carriage Bolt - 3/8 x 2-1/2 Lg	4
44	S45280	Hex Bolt - 1/4 x 2-1/4 Lg	1
45	S47110	Hex Nut - 1/2 Center Lock	2
46	W-187	Hex Bolt - 3/8 x 1 1/4 Lg	4
47	W-469	Hex Head - 1/4 x 3/4 Lg	2
48	W-472	Hex Bolt - 5/16 x 1-1/4 Lg	2
49	W-512	Hex Nut - 1/4	7
50	W-513	Hex Nut - 5/16	3
51	W-514	Hex Nut - 3/8	8
52	W-521	Lockwasher - 1/4	7
53	W-522	Lockwasher - 5/16	1
54	W-523	Lockwasher - 3/8	10
55	W-538	Washer - 7/16 ID x 1 OD x 14 Ga	8
56	W-1552	Hex Bolt - 1/4 x 1 Lg	3

Cart Handrails



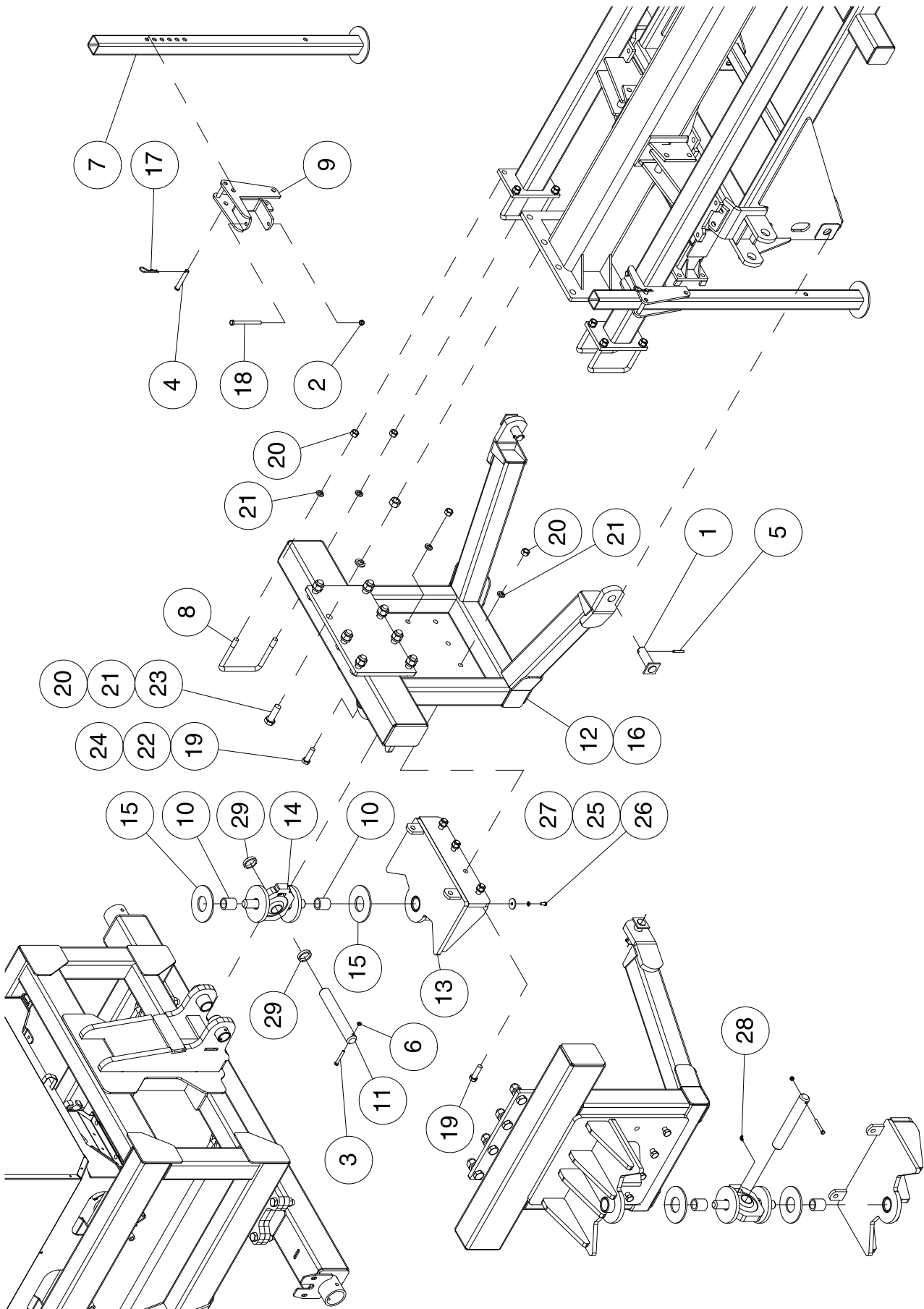
Item	Part No.	Description	Qty
1	N45815	Hand Rail - Left Side	1
2	N45810	Handrail - Right Side	1
3	M-3388	Locknut - 3/8 Unitorque	8
4	N42507	Link	4
5	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.	12
6	W-514	Hex Nut - 3/8	4
7	W-523	Lockwasher - 3/8	4
8	W-538	Washer - 7/16 ID x 1 OD x 14 Ga.	4
9	D-5064	Bushing - 3/4 OD x .120W	2

Cart Fan



Item	Part No.	Description	Qty
1	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga.....	10
2	D-5590	Seal - 1/16 x 3/4 (Bulk/Ft)	1
3	N15930	U-Clamp - 6 Dia	1
4	N16263	Fan - Hydraulic Drive.....	1
5	N29372	Hydraulic Motor - 12 cc	1
6	N37468	Plate - Fan Mounting.....	1
7	N37905	Pipe Plug -1/8 MNPT	1
8	N47810	Fan Adapter.....	1
9	N47840	Plenum Assembly	1
10	S-1189	Hex Bolt - 1/2 x 1 3/4 Lg.....	2
11	S27987	Flange Lock Nut - 3/8 W/Center Lock	14
12	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	10
13	W-475	Hex Bolt - 3/8 x 1 Lg.....	4
14	W-487	Hex Bolt - 1/2 x 1 3/4 Lg.....	2
15	W-516	Hex Nut - 1/2.....	4
16	W-525	Lockwasher - 1/2.....	4
17	W-539	Flatwasher - 1/2	2

Cart Rear Hitch



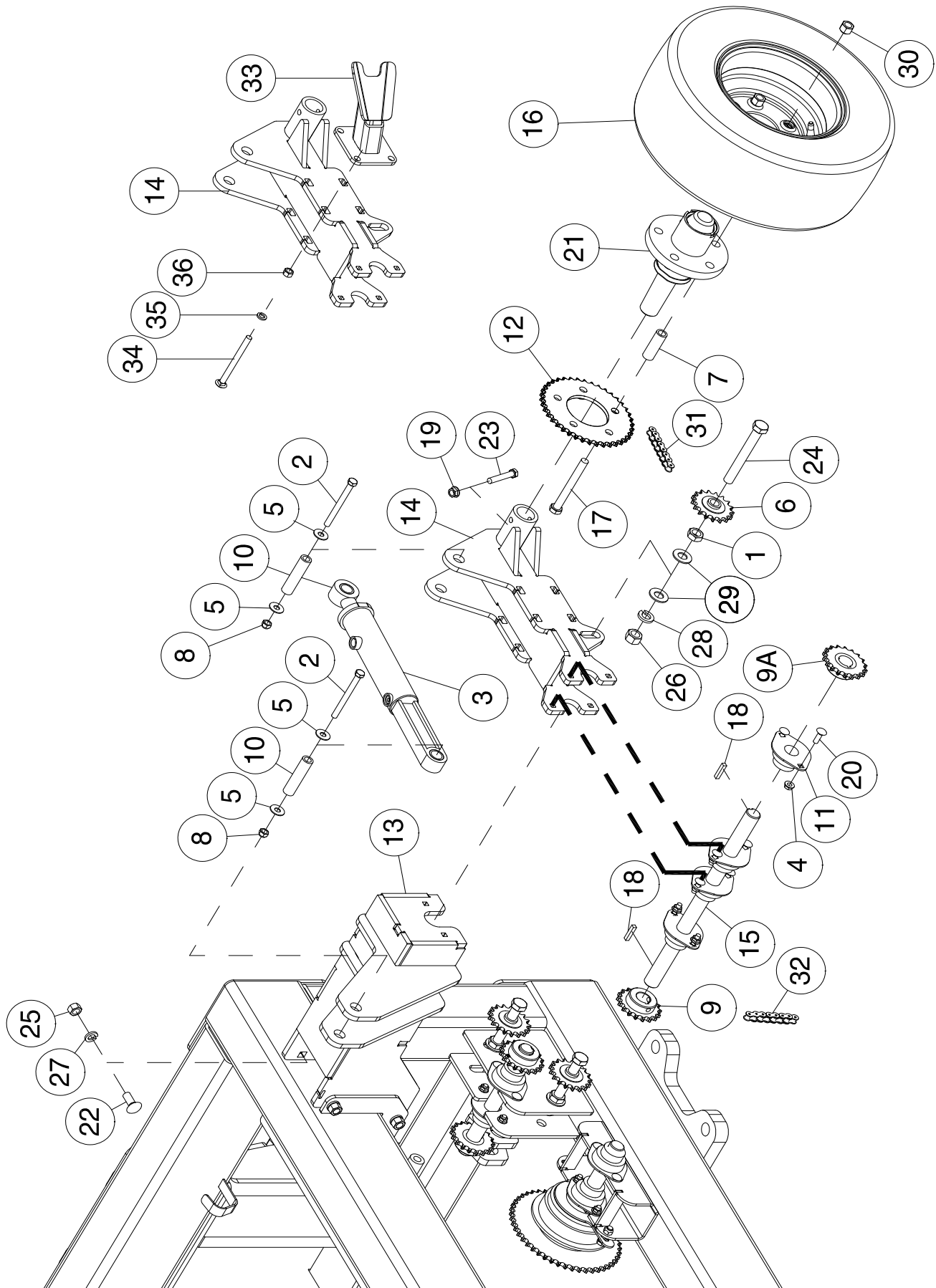
Reverse View

Cart - Rear Hitch

Item	Part No.	Description	Qty
1	C18531	Pin - 1 3/8 x 3 5/8 UL	2
2	F-3405	Locknut - 1/2 Unitorque.....	2
3	H-1790	Hex Bolt - 3/8 x 2 3/4 Lg.....	1
4	H10462	Adjustment Pin - .621 Dia x 3 5/8 UL.....	2
5	J12281	Spring Pin - 5/16 x 2 Lg.....	2
6	M-3388	Locknut - 3/8 Unitorque.....	9
7	N31916	Jack Stand	2
8	N34626	U-Bolt - 3/4 x 7 x 6 1/2 UL.....	4
9	N47930	Jack Stand Bracket	2
10	N48483	Coupler Bushing - 1.3816 ID x 1.8779 OD x 2 Lg.....	2
11	N48500	Hitch Pin - 1 3/4 Dia	1
12	S45298	Front Hitch.....	1
13	S47283	Hitch Bracket.....	1
14	S47290	Hitch Mount.....	1
15	S48473	Wear Plate.....	2
16	S49380	Hitch Assembly	1
17	W-131	Hairpin - 5/32	2
18	W-496	Hex Bolt - 1/2 x 5 1/2 Lg.....	2
19	W-509	Hex Bolt - 3/4 x 2 1/2 Lg.....	12
20	W-518	Hex Nut - 3/4.....	20
21	W-527	Lockwasher - 3/4.....	20
22	C-705	Lockwasher - 1.....	6
23	J12334	Hex Bolt - 1 x 3 Lg.....	8
24	W-520	Hex Nut - 1	6
25	W-523	Lockwasher - 3/8.....	1
26	W-867	Hex Bolt - 3/8 x 3/4 Lg.....	1
27	W14504	Washer - 3/8 x 10Ga	1
28	F-3056	Grease Fitting - 1/4 x 90 Deg Elbow	1
29	N50870	Washer - 13/16 ID x 2 1/2 OD x 3/16 Thick	2



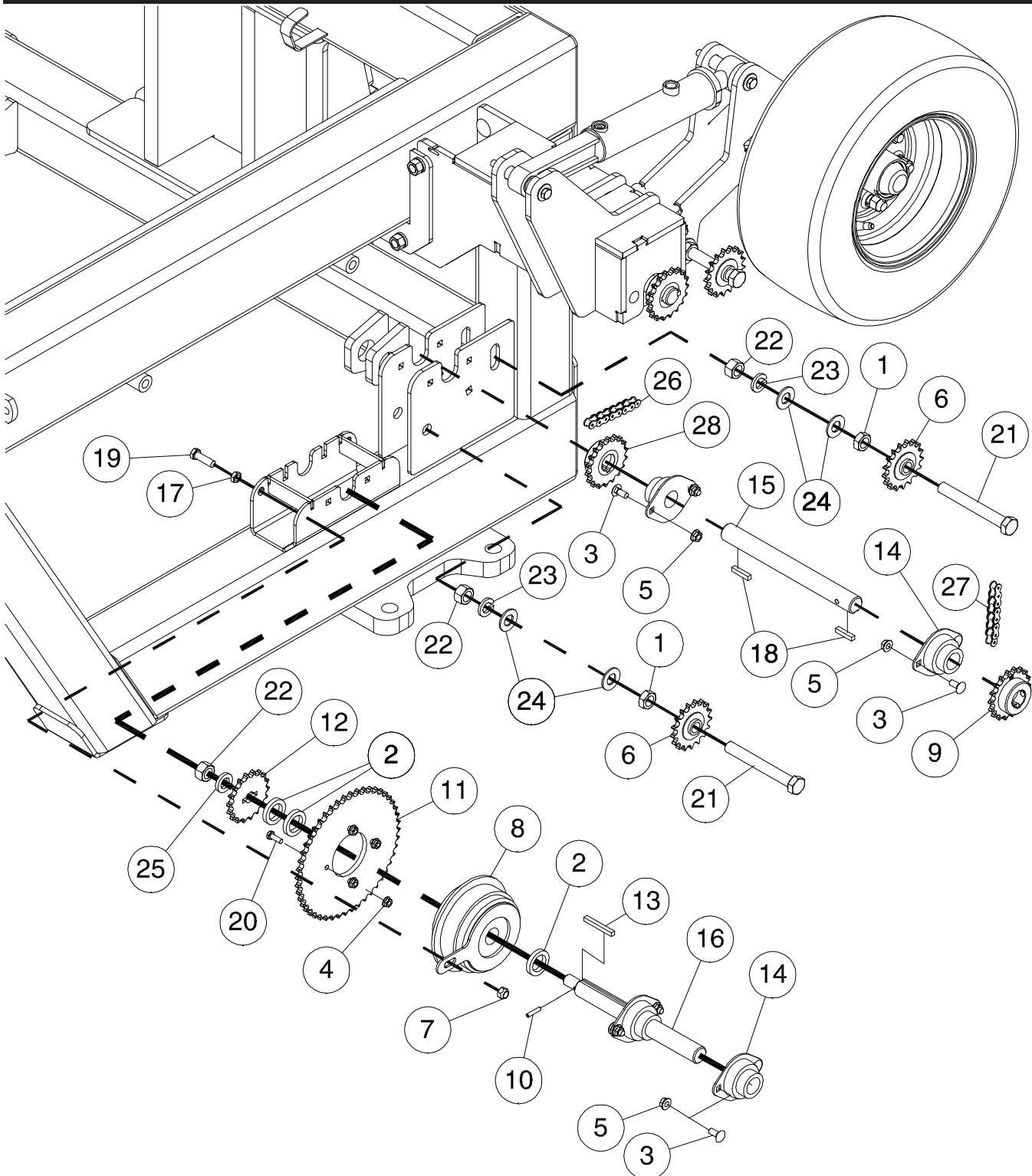
Ground Drive Assembly Meter Drive Wheel



Ground Drive Assembly - Meter Drive Wheel

Item	Part No.	Description	Qty
1	C-1472	Jam Nut - 5/8	1
2	C-1550	Hex Bolt - 3/8 x 4 Lg.....	2
3	C51153	Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke	1
4	D-5278	Flange Lock Nut - 5/16.....	8
5	D-5579	Washer - 13/32 ID x 1 OD x 16 Ga.....	4
6	D17808	Sprocket Idler - 40A17	1
7	H27918	Bushing - 3/4 OD x .510 ID x 2 1/4 Lg	5
8	M-3388	Locknut - 3/8 Unitorque.....	2
9	N19237	Sprocket - 40B18	1
9A	N29338	Sprocket - 40B24	1
10	N29399	Bushing - 3/4 OD x .482 ID x 3 1/8 Lg	2
11	N53889	Flangette Bearing 1" Bore.....	4
12	N60737	Sprocket - 40A40	1
13	N62035	Bogey Wheel Mount.....	1
14	N62040	Swing Arm.....	1
15	N62047	Jackshaft - 16 1/2 Lg	1
16	N62230	Tire + Rim Assembly - 16 x 6.5-8 NHS - 5 Bolt - 4Ply	1
17	N62244	Hex Bolt - 1/2 x 4 1/2 Lg.....	5
18	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	2
19	S27987	Locknut - 3/8 Flange Center Lock.....	1
20	S33420	Carriage Bolt - 5/16 x 1 Lg	8
21	S48850	Hub Assembly - 1000 Lbs. - 5 Bolt.....	1
22	T-5266	Carriage Bolt - 1/2 x 1 1/4 Lg	6
23	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.....	1
24	W-506	Hex Bolt - 5/8 x 5 Lg.....	1
25	W-516	Hex Nut - 1/2	6
26	W-517	Hex Nut - 5/8.....	2
27	W-525	Lockwasher - 1/2.....	6
28	W-526	Lockwasher - 5/8.....	1
29	W-629	Flat Washer - 5/8.....	2
30	S50246	Tapered Wheel Nut - 1/2 - 20UNF	5
31	S-5777	Chain - #40 x 84 Link w/Conn	1
32	N28194	Chain - #40 x 110 Link w/Conn	1
33	N66290	Mud Scraper	1
34	N37219	Carriage Bolt - 3/8 x 4 1/2 Lg	4
35	W-523	Lockwasher - 3/8.....	4
36	W-514	Hex Nut - 3/8.....	4
	N67920	Kit: Ground Drive Mud Scraper (Includes Items 33, 34, 35 and 36)	

Ground Drive Assembly Clutch Mount

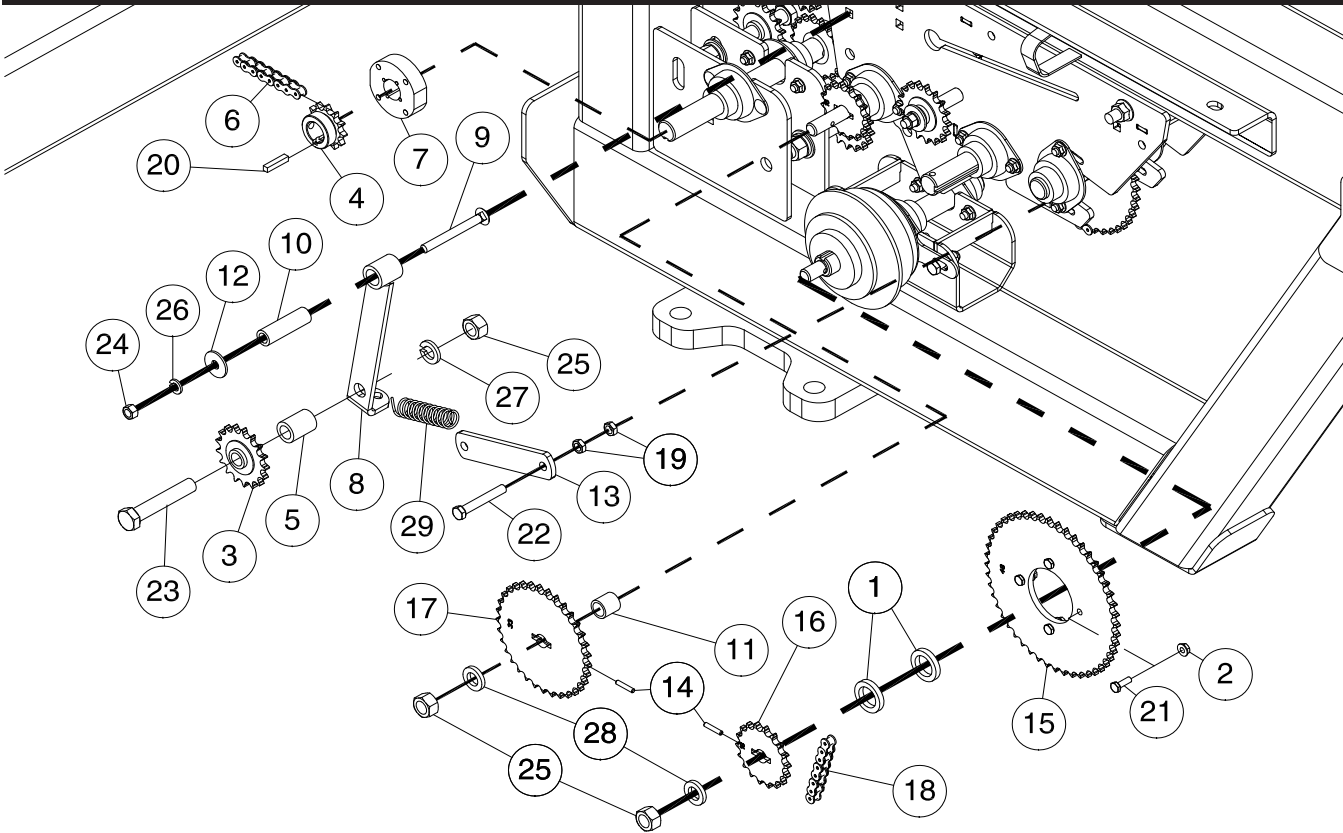


Ground Drive Assembly - Clutch Mount

Item	Part No.	Description	Qty
1	C-1472	Jam Nut - 5/8	3
2	C32316	Spacer - 1.010 ID x 1 1/2 OD x 1/4 Thick.....	4
3	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	8
4	D-5277	Lock Nut - 1/4 Flange Serrated	4
5	D-5278	Lock Nut - 5/16 Flange.....	16
6	D17808	Sprocket Idler - 40A17	3
7	M-3388	Locknut - 3/8 Unitorque.....	3
8	N16862	Electric Clutch	1
9	N19237	Sprocket - 40B18	1
10	N27395	Drive Pin - 3/16 Dia x 1 Lg	1
11	N27410	Sprocket - 40A48	1
12	N27417	Sprocket - 40A17 (Spacing Sprocket - 10 inch spacing).....	1
	N27420	Sprocket - 40A20 (Spacing Sprocket - 12 inch spacing)	1
13	N37824	Key - 1/4 x 1/4 x 2-1/8 Lg.....	1
14	N53889	Flangette Bearing - 1" Bore	8
15	N60971	Jackshaft - 10 Lg.....	1
16	N60972	Clutch Shaft - 1 Dia x 10 5/16 Lg	1
17	S-748	Hex Jam Nut - 3/8	1
18	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	4
19	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	1
20	W-469	Hex Head - 1/4 x 3/4 Lg	4
21	W-506	Hex Bolt - 5/8 x 5 Lg.....	3
22	W-517	Hex Nut - 5/8.....	4
23	W-526	Lockwasher - 5/8.....	3
24	W-629	Flat Washer - 5/8 ID x 5/16 OD x 13GA Thick	6
25	W-793	Washer - 5/8 ID x 1 1/8 OD x 3/16 Thick	1
26	N16113	Chain- #40 x 69 Links With Conn And Offset	1
27	N28194	Chain - #40 x 110 Link w/Conn	1
28	D17946	Sprocket - 40B12	1

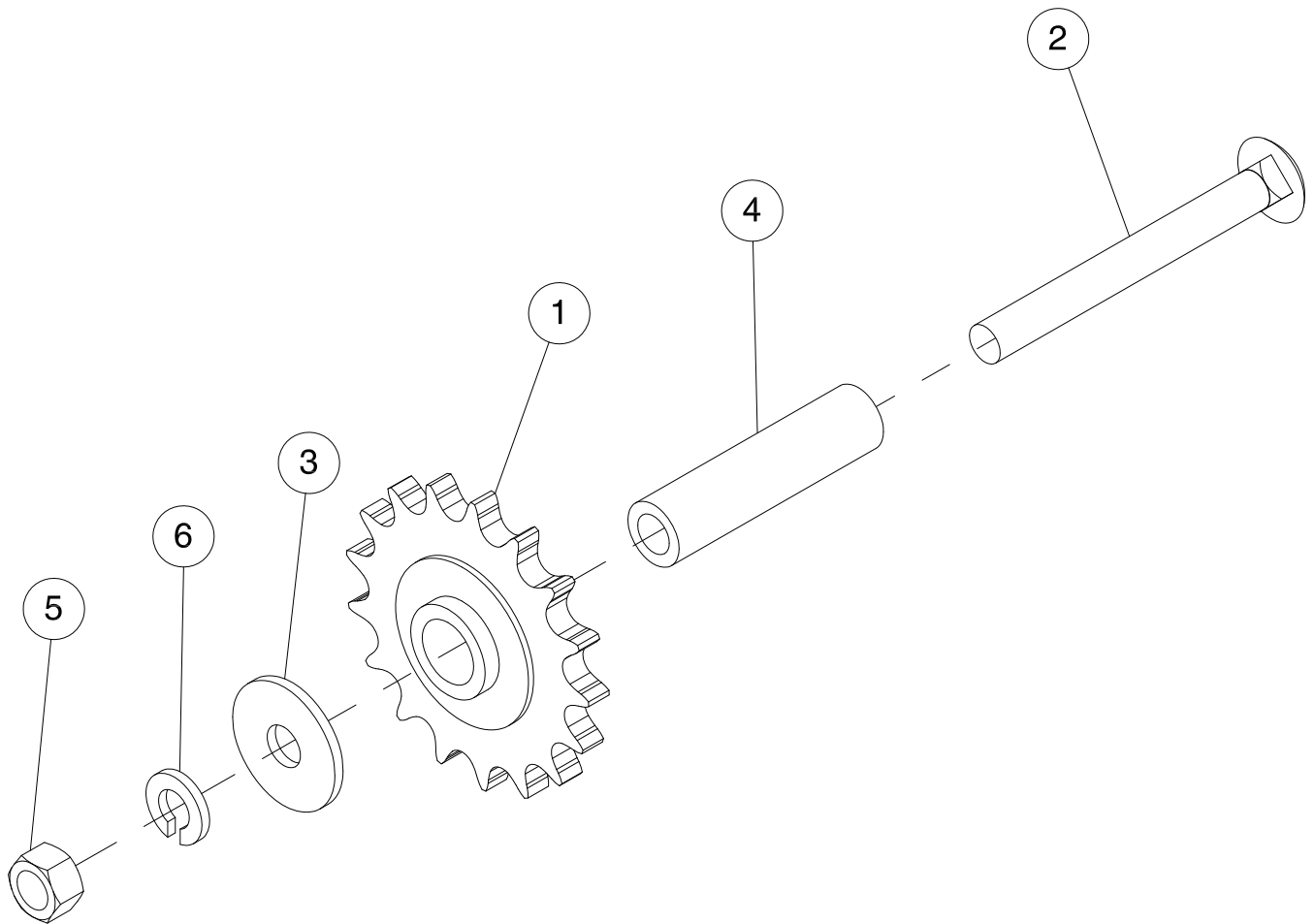
Spacing Sprocket		
Opener Spacing	Spacing Sprocket	Part No.
7.2" (183 mm)	12 teeth	N27412
7.5" (191 mm)	12 teeth	N27412
8" (203 mm)	13 teeth	N27413
9" (229 mm)	15 teeth	N27415
10" (254 mm)	17 teeth	N27417
12" (305 mm)	20 teeth	N27420
15" (381 mm)	25 teeth	N27425

Ground Drive Assembly Rear Transmission Gear & Clutch Mount



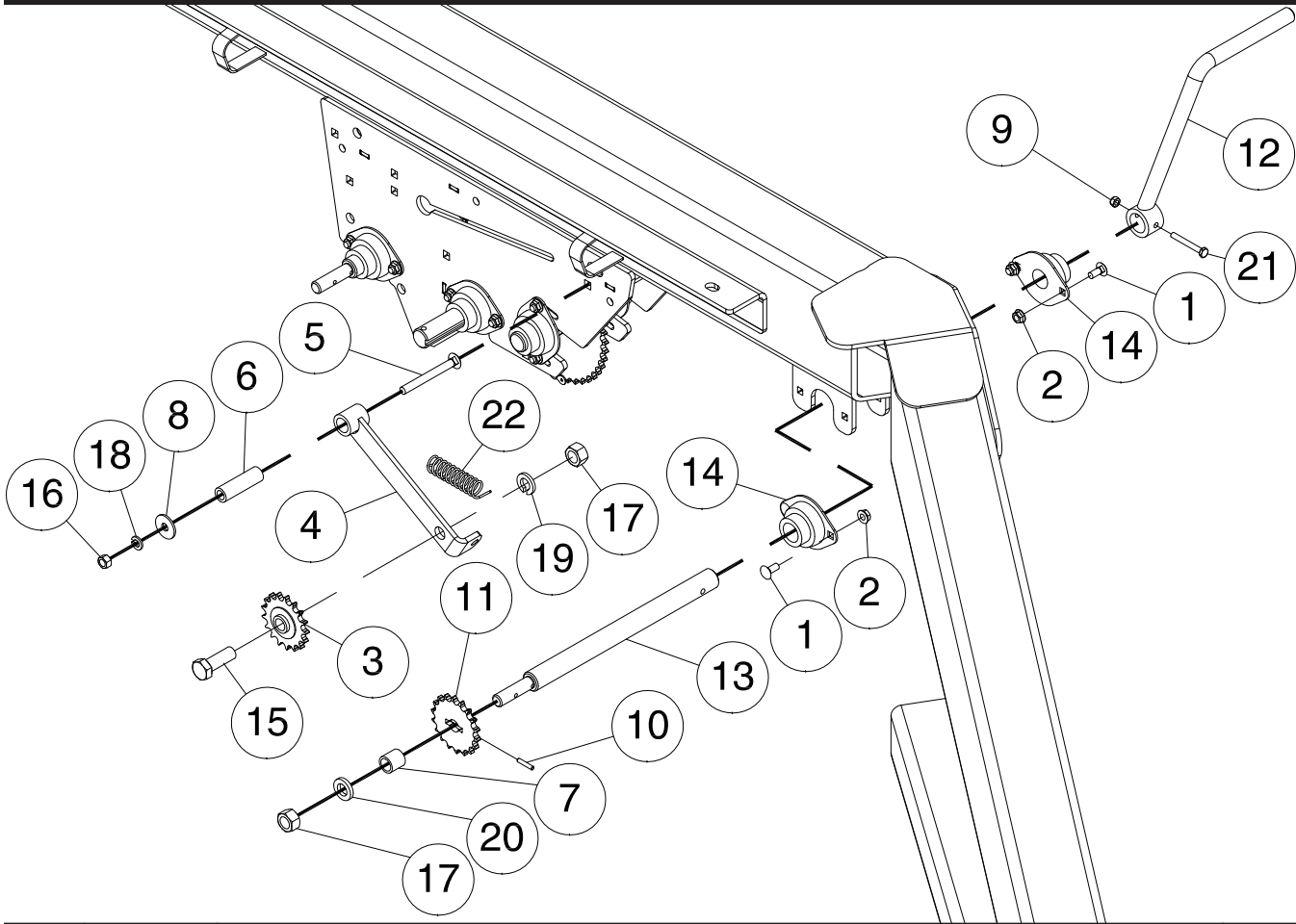
Item	Part No.	Description	Qty
1	C32316	Spacer - 1.010 ID x 1 1/2 OD x 1/4 Thick.....	2
2	D-5277	Lock Nut - 1/4 Flange Serrated.....	4
3	D17808	Sprocket Idler - 40A17	5
4	D17946	Sprocket - 40B12	1
5	H29044	Bushing - 1 OD x .640 ID x 1 3/8 Lg	1
6	N16113	Chain - #40 - 69 Links With Conn and Offset.....	1
7	N16471	Actuator - Reed Switch	1
8	N19261	Idler Arm.....	1
9	N19283	Carriage Bolt - 3/8 x 3 1/2 Lg	3
10	N19460	Bushing - 3/4 OD x .482 ID x 2 1/2 Lg	1
11	N19577	Bushing - 7/8 OD x .657 ID x 7/8 Lg	1
12	N19706	Washer - 13/32ID x 1 1/4OD x .100	3
13	N24311	Clamp Strap	1
14	N27395	Groove Pin - 3/16 x 1 Lg	3
15	N27410	Sprocket - 40A48	1
16	N27417	Sprocket - 40A17 (Spacing Sprocket - 10 inch spacing).....	1
	N27420	Sprocket - 40A20 (Spacing Sprocket - 12 inch spacing)	1
17	N27433	Sprocket - 40A33	1
18	N29369	Chain- #40 - 60 Links W/Conn	1
19	S-748	Jam Nut - 3/8	2
20	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	2
21	W-469	Hex Head - 1/4 x 3/4 Lg.....	4
22	W-480	Hex Bolt - 3/8 x 2 1/2 Lg.....	1
23	W-503	Hex Bolt - 5/8 x 3 1/2 Lg.....	1
24	W-514	Hex Nut - 3/8.....	3
25	W-517	Hex Nut - 5/8.....	5
26	W-523	Lockwasher - 3/8.....	3
27	W-526	Lockwasher - 5/8.....	3
28	W-793	Washer - 5/8 ID x 1 1/8 OD x 3/16 Thick.....	2
29	W-1663	Adjusting Spring	1

Ground Drive Assembly Transmission Chain Idler Sprockets



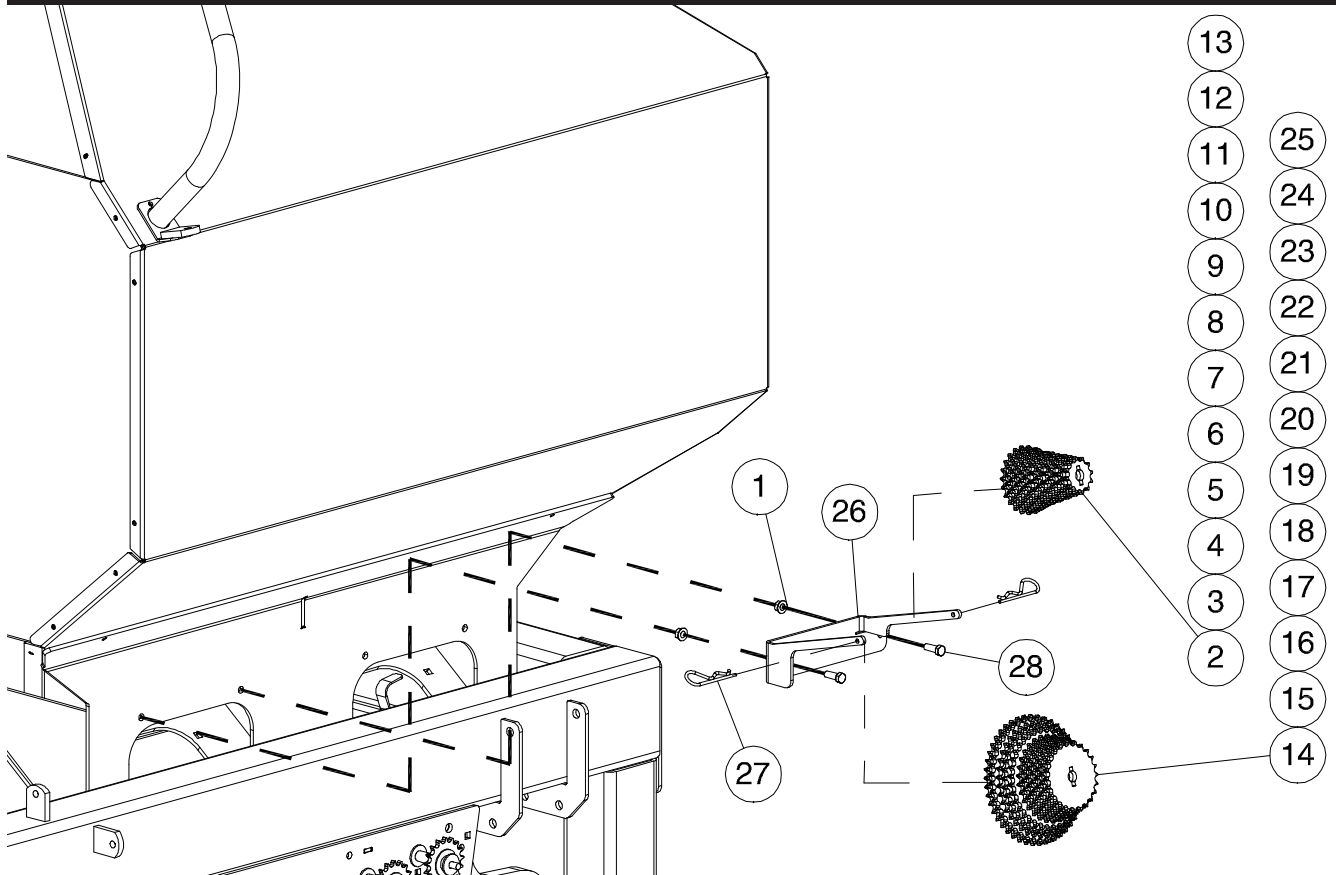
Item	Part No.	Description	Qty
1	D17808	Sprocket Idler - 40A17	1
2	N19283	Carriage Bolt - 3/8 x 3 1/2 Lg	1
3	N19706	Washer - 13/32 ID x 1 1/4 OD x .100 Thick	1
4	N50951	Bushing - 5/8 OD x 0.385 ID x 2 1/2 Lg	1
5	W-514	Hex Nut - 3/8.....	1
6	W-523	Lockwasher - 3/8.....	1
For locations please refer to Ground drive chain layouts on page 1-26 and 1-27			

Ground Drive Assembly Calibration Crank



Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	4
2	D-5278	Flange Lock Nut - 5/16.....	4
3	D17808	Sprocket IDler - 40A17.....	1
4	N19261	Idler Arm.....	1
5	N19283	Carriage Bolt - 3/8 x 3-1/2 Lg	1
6	N19460	Bushing - 3/4 OD x .482 ID x 2 1/2 Lg	1
7	N19577	Bushing - 7/8 OD x .657 ID x 7/8 Lg	1
8	N19706	Washer-13/32ID x 1-1/4OD x .100 Thick.....	1
9	N22778	Locknut - 1/4 Nylon Insert.....	1
10	N27395	Groove Pin - 3/16 x 1	1
11	N27417	Sprocket - 40A17 (Spacing Sprocket - 10 inch spacing).....	1
	N27420	Sprocket - 40A20 (Spacing Sprocket - 12 inch spacing)	1
12	N27600	Calibration Crank.....	1
13	N50839	Hand Crank Shaft.....	1
14	N53889	Flangette Bearing 1" Bore.....	2
15	W-498	Hex Bolt - 5/8 x 1-3/4 Lg.....	1
16	W-514	Hex Nut - 3/8.....	1
17	W-517	Hex Nut - 5/8.....	2
18	W-523	Lockwasher - 3/8.....	1
19	W-526	Lockwasher - 5/8.....	1
20	W-793	Washer - 5/8 ID x 1 1/8 OD x 3/16 Thick	1
21	W-1540	Hex Bolt - 1/4 x 2 Lg.....	1
22	W-1663	Adjusting Spring.....	1

Ground Drive Assembly Drive Sprockets Mount

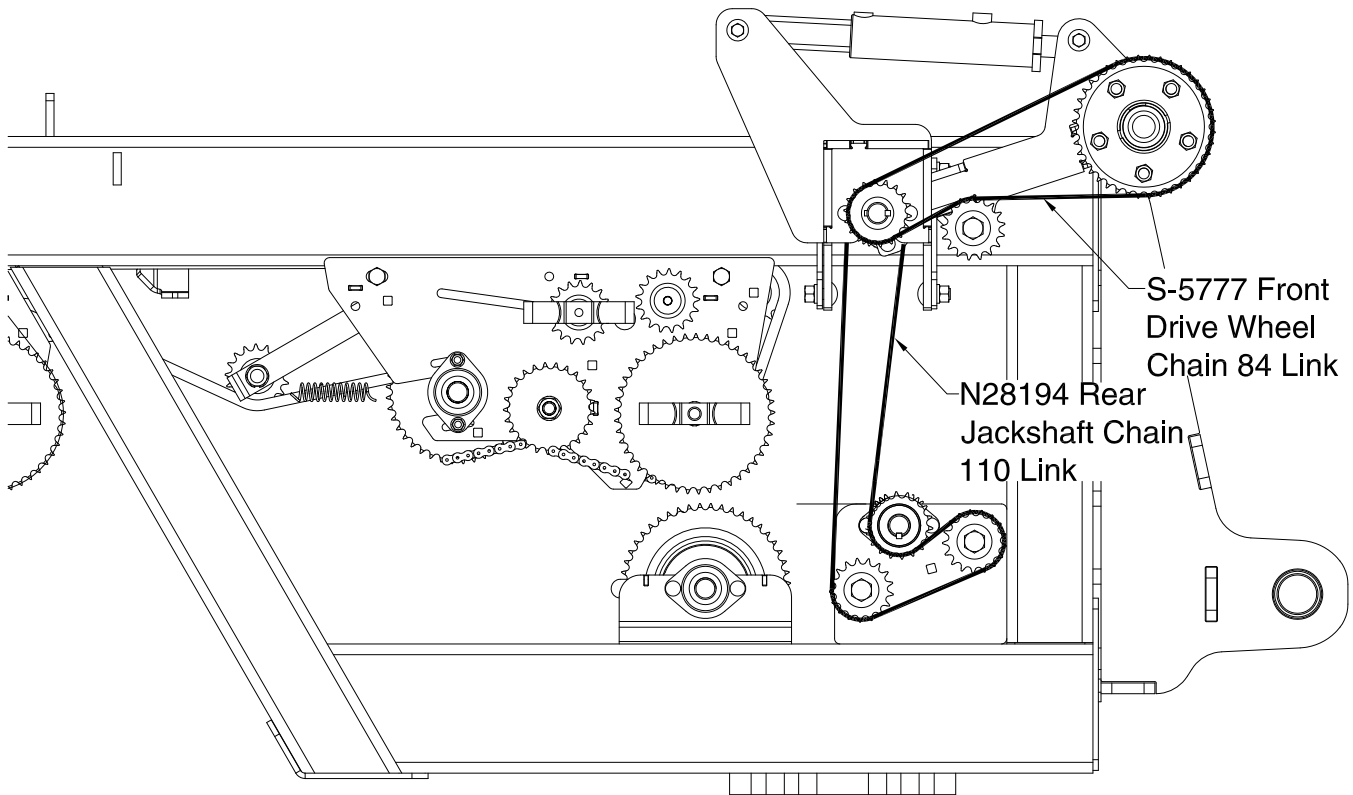


Item	Part No.	Description	Qty
1	D-5279	Lock Nut - 3/8 Flange.....	2
2	N27412	Sprocket - 40A12	2
3	N27413	Sprocket - 40A13	2
4	N27414	Sprocket - 40A14	1
5	N27415	Sprocket - 40A15	2
6	N27416	Sprocket - 40A16	1
7	N27417	Sprocket - 40A17	2
8	N27418	Sprocket - 40A18	3
9	N27419	Sprocket - 40A19	1
10	N27420	Sprocket - 40A20	1
11	N27421	Sprocket - 40A21	1
12	N27422	Sprocket - 40A22	1
13	N27423	Sprocket - 40A23	1
14	N27424	Sprocket - 40A24	1
15	N27425	Sprocket - 40A25	2
16	N27426	Sprocket - 40A26	1
17	N27427	Sprocket - 40A27	1
18	N27428	Sprocket - 40A28	1
19	N27429	Sprocket - 40A29	1
20	N27430	Sprocket - 40A30	1
21	N27435	Sprocket - 40A35	1
22	N27438	Sprocket - 40A38	1
23	N27440	Sprocket - 40A40	3
24	N27444	Sprocket - 40A44	1
25	N27445	Sprocket - 40A45	2
26	N62362	Sprocket Mount.....	1
27	W-131	Hairpin - #9	2
28	W-475	Hex Bolt - 3/8 x 1 Lg.....	2

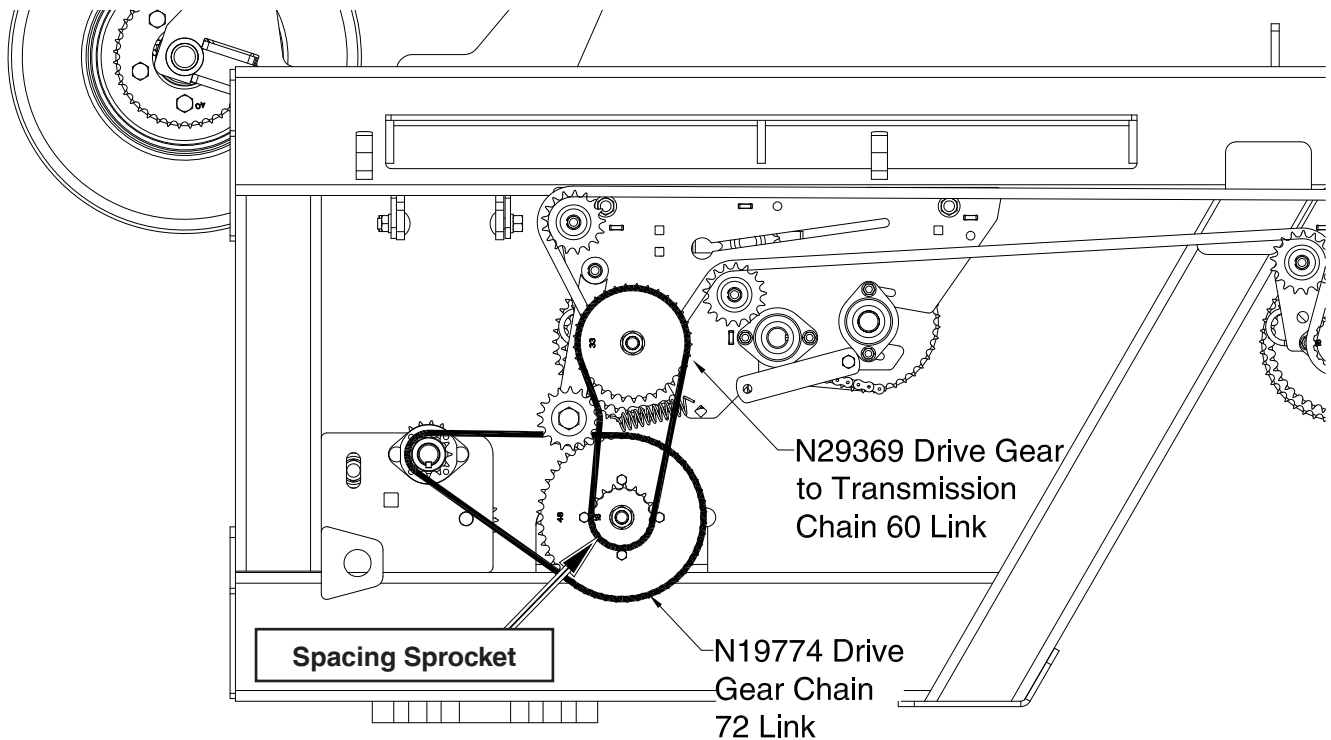
Ground Drive Assembly Meter Drive Chains Ground Drive

Jackshaft Chains

Outboard drive wheel and Jackshaft chains



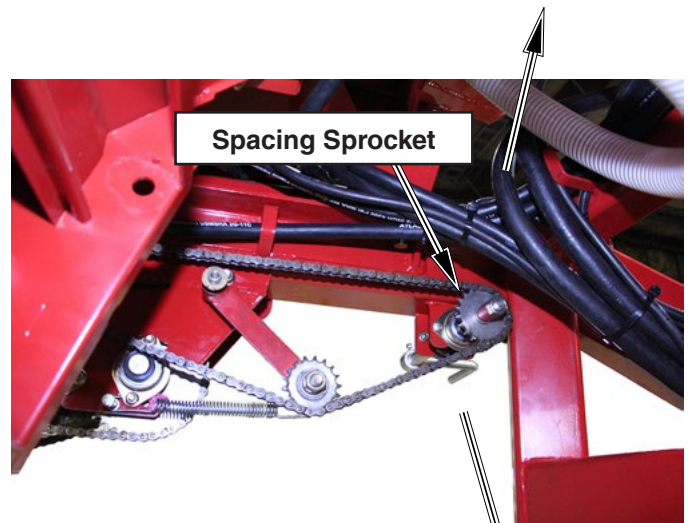
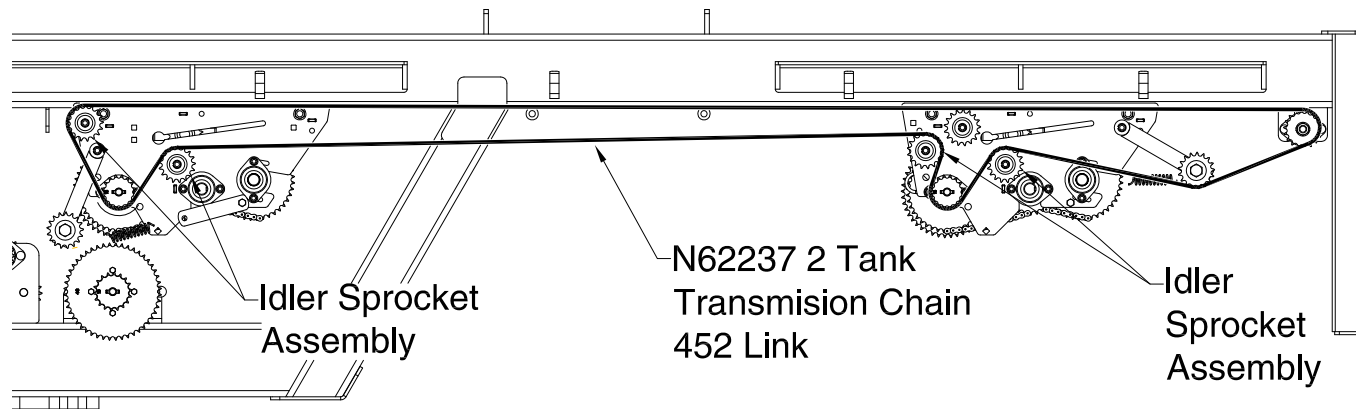
Inboard drive wheel and Jackshaft chains.



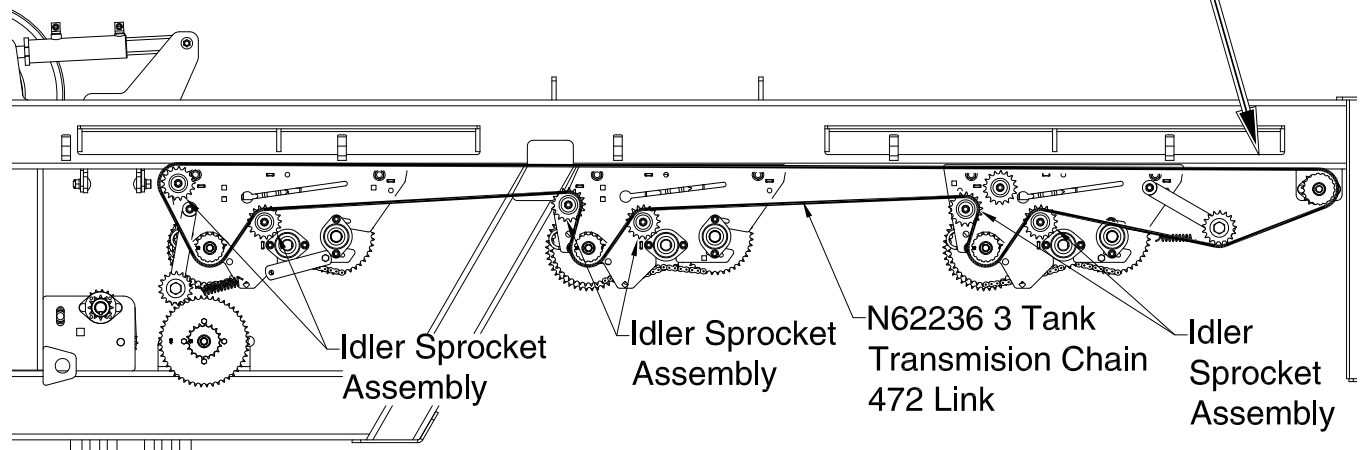
Ground Drive Assembly Meter Drive Chains Ground Drive

Transmission Chains

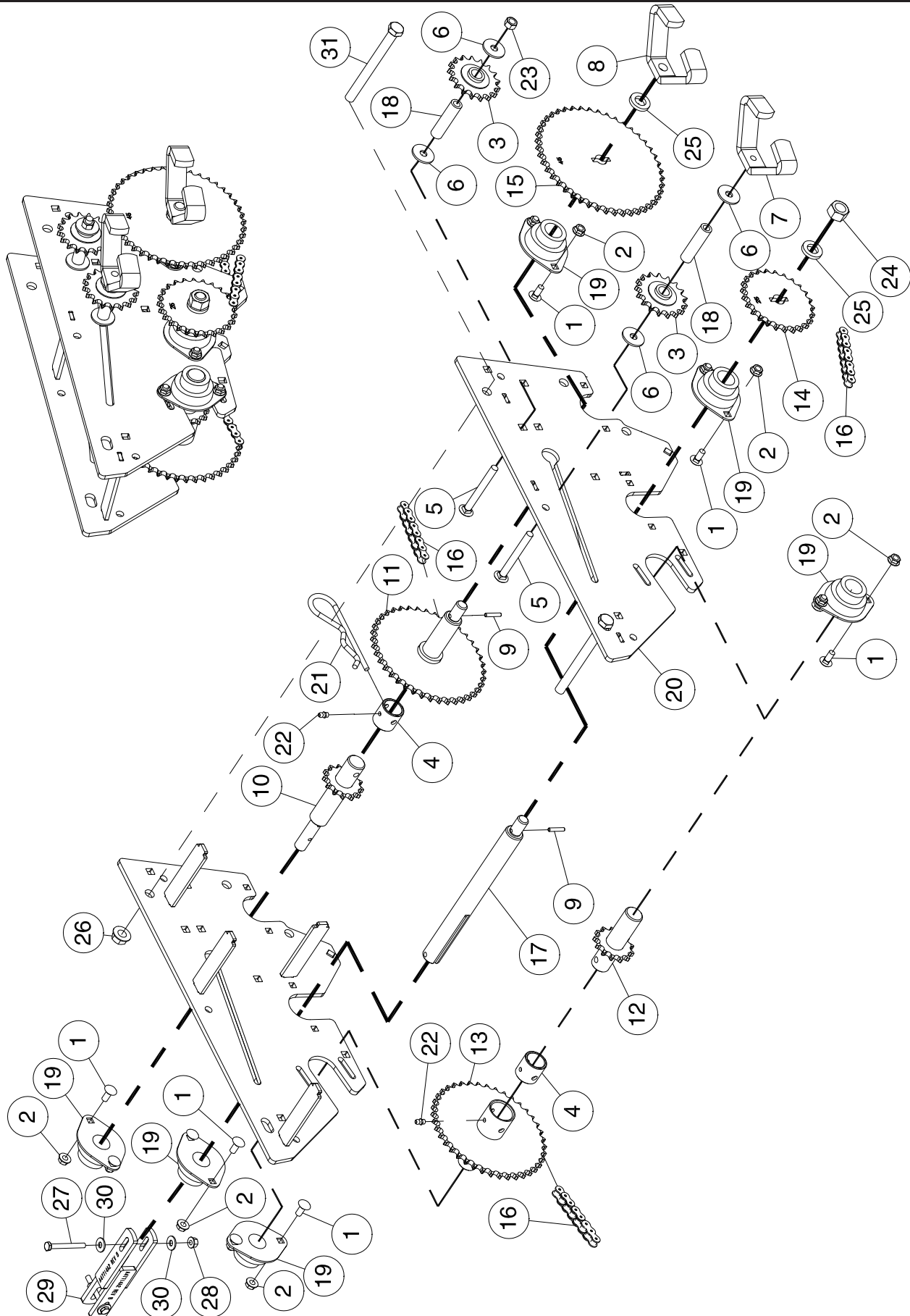
2 Tank Layout



3 Tank Layout



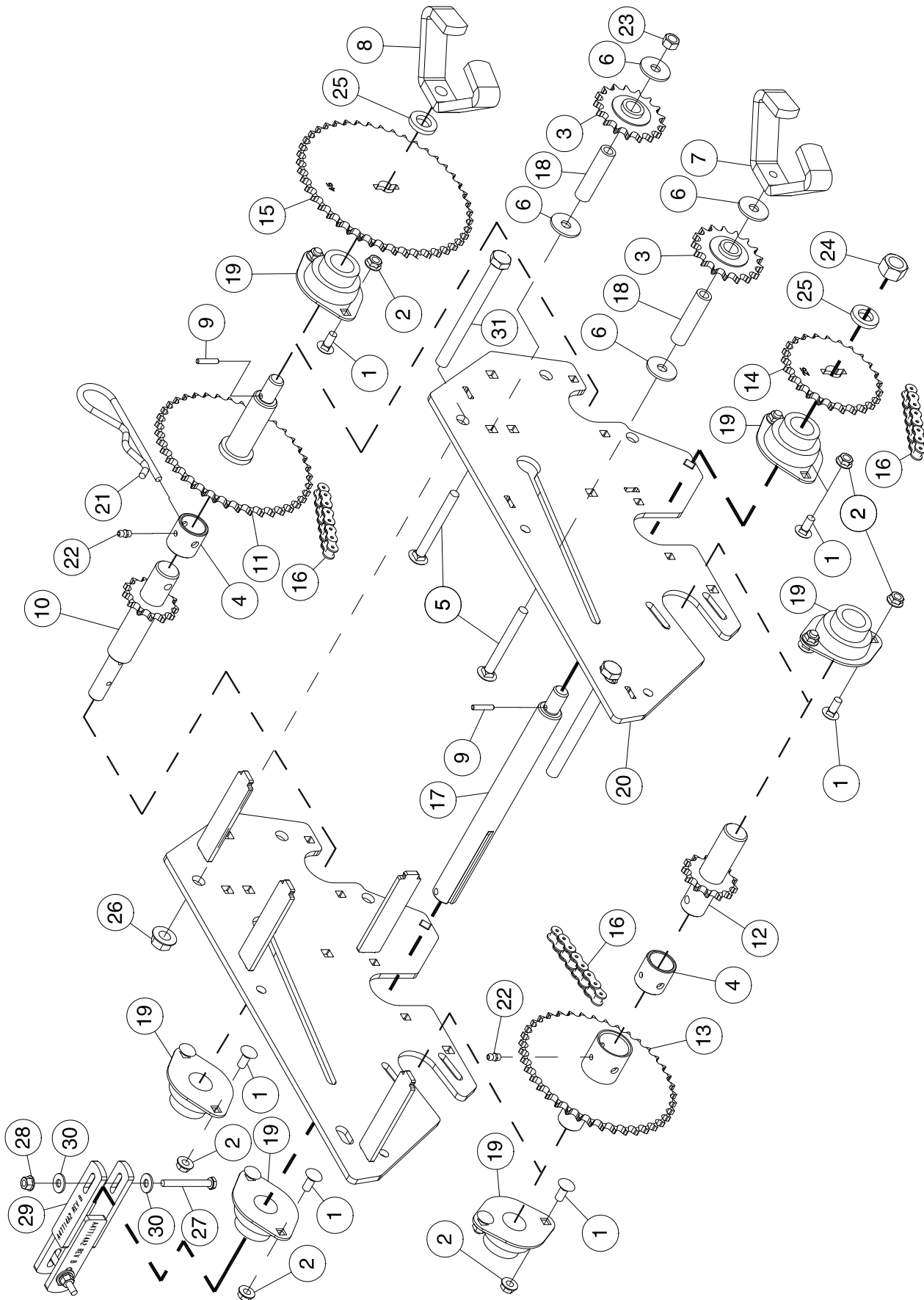
Transmission Ground Drive



Transmission - Ground Drive

Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	12
2	D-5278	Flange Lock Nut - 5/16.....	12
3	D17808	Idler Sprocket - 40A17	2
4	N16853	Oillite Bushing	2
5	N19283	Carriage Bolt - 3/8 x 3 1/2 Lg	2
6	N19706	Washer - 13/32ID x 1-1/4OD x.100.....	4
7	N27350	Wing-Lock Nut - 3/8	1
8	N27370	Wing-Lock Nut - 5/8	1
9	N27395	Drive Pin - 3/16 x 1 Lg.....	2
10	N27403	Shaft - Slow Speed 13T x 7 Lg.....	1
11	N27404	Shaft - Slow Speed 40T x 5 13/16 Lg (Includes item 4)	1
12	N27405	Shaft - Reducer 13T x 4 1/4 Lg	1
13	N27406	Shaft - Reducer 40T x 4 3/8 Lg (Includes item 4)	1
14	N27425	Sprocket - 40A25 - (P-Drive)	1
15	N27445	Sprocket - 40A45 - (P-Drive)	1
16	N28193	Chain - #40 x 82 Link W/2 Conn	3
17	N36206	Shaft - Meter End - 1 Dia x 11 5/16 Lg	1
18	N50951	Bushing - 5/8 OD x .385 ID x 2 1/2 Lg	2
19	N53889	Flangette Bearing - 1" Bore	6
20	N60704	Transmission Weldment.....	1
21	P1318510	Hairpin - #19	1
22	S-752	Grease Fitting - 1/4 Straight	2
23	W-514	Hex Nut - 3/8	1
24	W-517	Hex Nut - 5/8	1
25	W-793	Washer - 5/8 ID x 1 1/8 OD x 3/16 Thick	2
26	D14565	Flange Lock Nut - 1/2.....	2
27	N22777	Hex Bolt - 1/4 x 2 1/4 Lg.....	2
28	N42510	Flange Lock Nut - 1/4 w/Center Lock.....	2
29	N47715	Coupler - 4 1/2 Lg	1
30	S-1198	Washer - 5/16 ID x 3/4 OD x .065 Thick	4
31	W-496	Hex Bolt - 1/2 x 5 1/2 Lg.....	2
	N60705	Transmission Assembly - Includes All Above Items	1

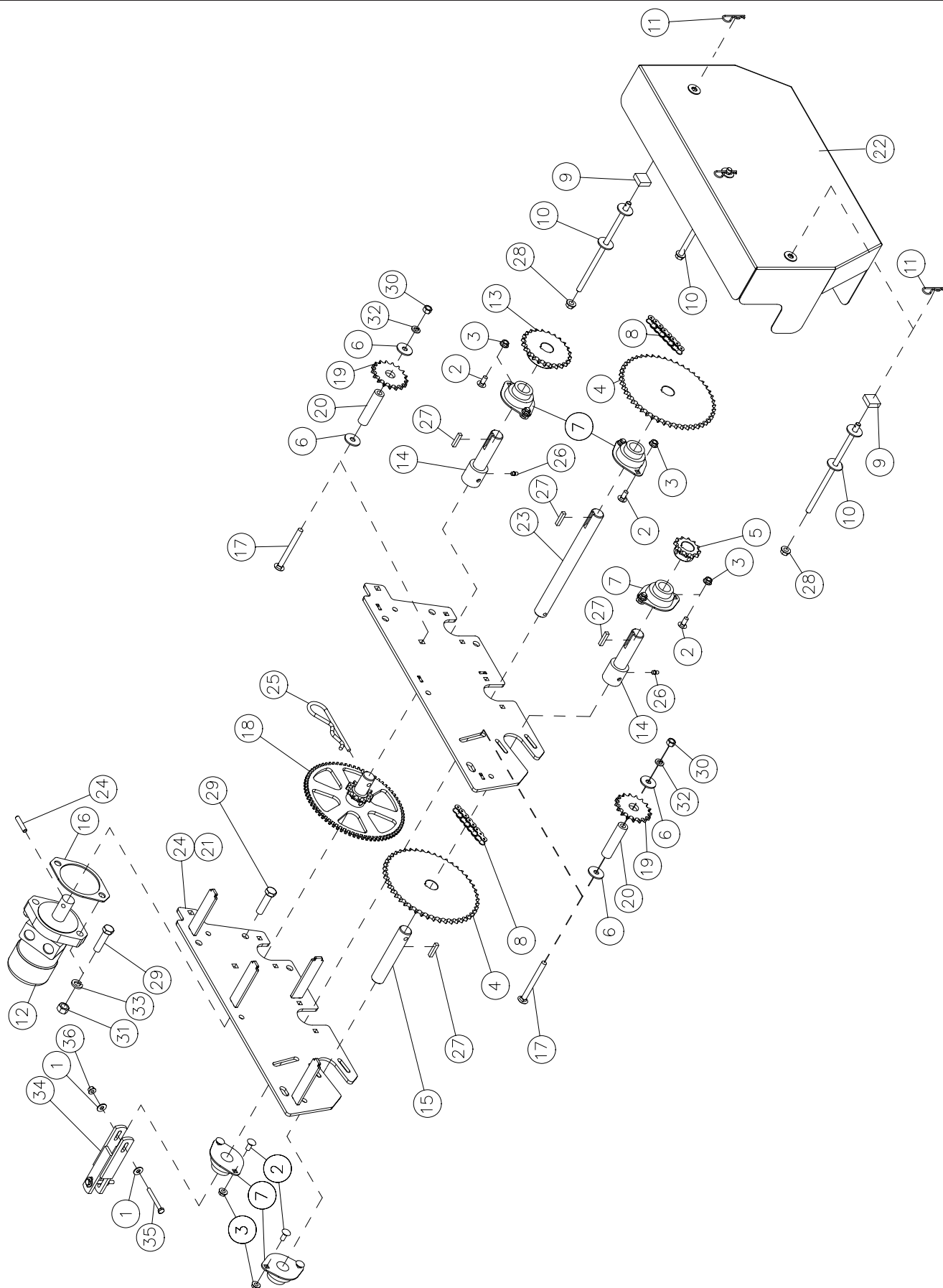
Transmission Ground Drive 3rd Tank - Option



Transmission - Ground Drive 3rd Tank - Option

Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	12
2	D-5278	Flange Lock Nut - 5/16.....	12
3	D17808	Idler Sprocket - 40A17	2
4	N16853	Oillite Bushing	2
5	N19283	Carriage Bolt - 3/8 x 3 1/2 Lg	2
6	N19706	Washer - 13/32 ID x 1 1/4 OD x .100	4
7	N27350	Wing-Lock Nut - 3/8	1
8	N27370	Wing-Lock Nut - 5/8	1
9	N27395	Drive Pin - 3/16 x 1 Lg.....	2
10	N27403	Shaft - Slow Speed 13T x 7 Lg.....	1
11	N27404	Shaft - Slow Speed 40T x 5 13/16 Lg (Includes item 4)	1
12	N27405	Shaft - Reducer 13T x 4 1/4 Lg	1
13	N27406	Shaft - Reducer 40T x 4 3/8 Lg (Includes item 4)	1
14	N27425	Sprocket - 40A25 - (P-Drive)	1
15	N27445	Sprocket - 40A45 - (P-Drive)	1
16	N28193	Chain - #40 x 82 Link W/2 Conn	3
17	N36206	Shaft - Meter End - 1 Dia x 11 5/16 Lg	1
18	N50951	Bushing - 5/8 OD x .385 ID x 2 1/2 Lg	2
19	N53889	Flangette Bearing - 1" Bore	6
20	N60701	Transmission Weldment.....	1
21	P1318510	Hairpin - #19	1
22	S-752	Grease Fitting - 1/4 Straight	2
23	W-514	Hex Nut - 3/8	1
24	W-517	Hex Nut - 5/8	1
25	W-793	Washer - 5/8 ID x 1 1/8 OD x 3/16 Thick	2
26	D14565	Flange Lock Nut - 1/2.....	2
27	N22777	Hex Bolt - 1/4 Dia x 2 1/4 Lg	2
28	N42510	Lock Nut - 1/4 Flange Center Lock	2
29	N47715	Coupler - 4 1/2 Lg	1
30	S-1198	Washer - 5/16 ID x 3/4 OD x .065 Thick	4
31	W-496	Hex Bolt - 1/2 x 5 1/2 Lg.....	2
	N60700	Transmission Assembly - Includes All Above Items	1

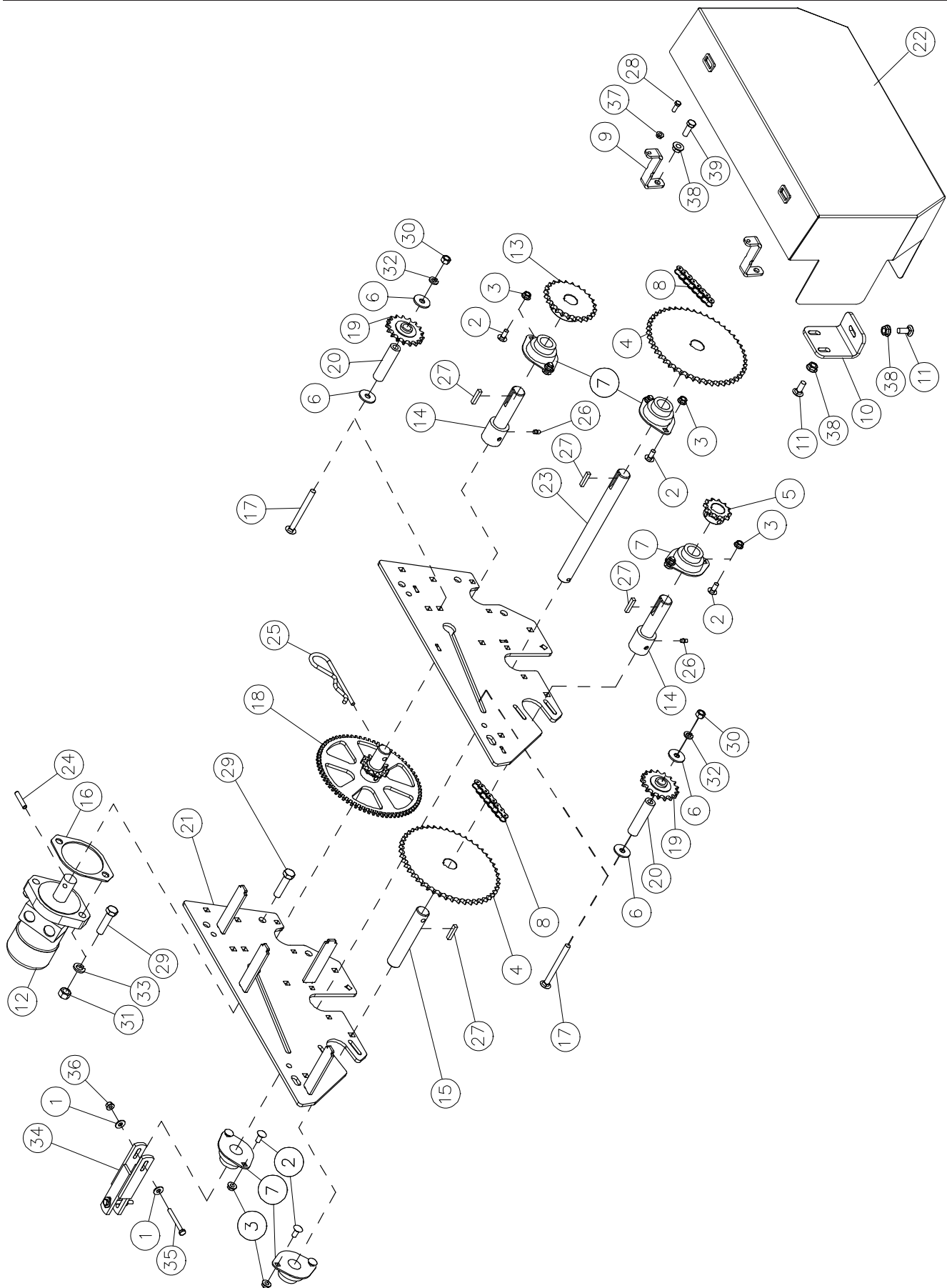
Transmission VR - Prior to 2017



Transmission - VR - Prior to 2017

Item	Part No.	Description	Qty
1	S-1198	Washer - 5/16 ID x 3/4 OD	4
2	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	10
3	D-5278	Flange Lock Nut - 5/16.....	10
4	D10747	Sprocket -40B48	2
5	D17946	Sprocket -40B12	1
6	N19706	Washer - 13/32 ID x 1 1/4 OD x.100	4
7	N27411	Flangette Bearing 1" Bore.....	5
8	N28193	Chain - #40 x 82 Link W/2 Conn-2 Pcs	2
9	N29265	Guard Cushion - 1" Lg of Seal Strip N19449	3
10	N29317	V-Rate Chain Guard Pin.....	3
11	N29318	Hair Pin - #7 .094 x 2 5/16	3
12	N29319	Danfoss Hydraulic Motor	1
13	N29338	Sprocket -40B24	1
14	N29340	Shaft-Slow Speed - 1 Dia x 5 Lg (Includes N16853 - Oillite Bushing).....	2
15	N29341	Shaft-Slow Speed - 1 Dia x 5 3/8 Lg	1
16	N29371	Shim - 12 Ga.	1
17	N29398	Carriage Bolt - 3/8 x 4 Lg	2
18	N45530	Shaft -Slow Speed - 40A12.....	1
19	N45544	Idler Sprocket W/20 mm Bore	2
20	N45546	Bushing - 13/32 ID x 25/32 OD x 3 1/8 Lg	2
21	N45830	Transmission Weldment.....	1
22	N47280	Rear Transmission Guard	1
23	N47716	Shaft-Meter End - 1 Dia x 10 13/16 Lg	1
24	N29375	Grove Pin - 5/16 x 1 1/2	1
25	P1318510	Hairpin - #19 - 0.143 x 4.375.....	1
26	S-752	Grease Zerk - 1/4 Straight.....	2
27	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	4
28	S27987	Flange Lock Nut - 3/8 W/Center Lock	3
29	W-488	Hex Bolt - 1/2 x 2 Lg.....	2
30	W-514	Hex Nut - 3/8	2
31	W-516	Hex Nut - 1/2	2
32	W-523	Lockwasher - 3/8.....	2
33	W-525	Lockwasher - 1/2.....	2
34	N47715	Coupler - 4 1/2 center to center	1
35	N22777	Bolt - 1/4 x 2 1/4	2
36	N42510	Flange Locknut - 1/4	2

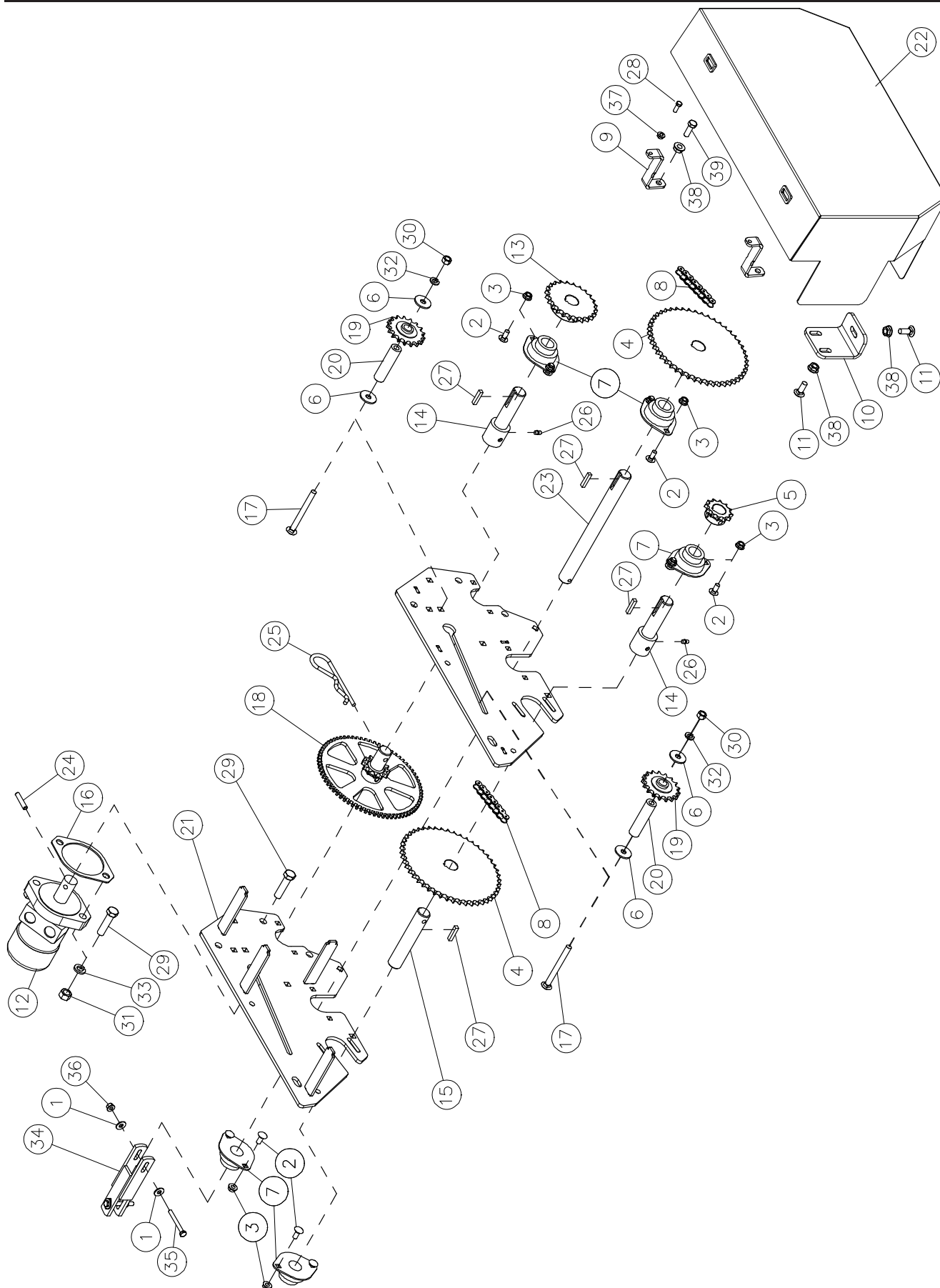
Transmission VR - 2017 to present



Transmission - VR - 2017 to present

Item	Part No.	Description	Qty
1	S-1198	Washer - 5/16 ID x 3/4 OD	4
2	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	10
3	D-5278	Flange Lock Nut - 5/16.....	10
4	D10747	Sprocket -40B48	2
5	D17946	Sprocket -40B12	1
6	N19706	Washer - 13/32 ID x 1 1/4 OD x.100	4
7	N53889	Flangette Bearing 1" Bore.....	5
8	N28193	Chain - #40 x 82 Link W/2 Conn-2 Pcs	2
9	N51201	Bracket - Upper.....	2
10	N62937	Bracket - Lower	1
11	P7C616	Carriage Bolt - 3/8 x 1 Lg	3
12	N29319	Danfoss Hydraulic Motor	1
13	N29338	Sprocket -40B24	1
14	N29340	Shaft-Slow Speed - 1 Dia x 5 Lg (Includes N16853 - Oillite Bushing).....	2
15	N29341	Shaft-Slow Speed - 1 Dia x 5 3/8 Lg	1
16	N29371	Shim - 12 Ga.	1
17	N37219	Carriage Bolt - 3/8 x 4 1/2 Lg	2
18	N45530	Shaft -Slow Speed - 40A12.....	1
19	D17808	Idler Sprocket - 40A17	2
20	N50842	Bushing - 0.385 ID x 5/8 OD x 3 1/4 Lg	2
21	N60704	Transmission Weldment.....	1
22	N62935	Transmission Guard.....	1
23	N53692	Shaft-Meter End - 1 Dia x 10 13/16 Lg	1
24	N29375	Grove Pin - 5/16 x 1 1/2	1
25	P1318510	Hairpin - #19 - 0.143 x 4.375.....	1
26	S-752	Grease Zerk - 1/4 Straight.....	2
27	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	4
28	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	2
29	W-488	Hex Bolt - 1/2 x 2 Lg.....	2
30	W-514	Hex Nut - 3/8.....	2
31	W-516	Hex Nut - 1/2.....	2
32	W-523	Lockwasher - 3/8.....	2
33	W-525	Lockwasher - 1/2.....	2
34	N47715	Coupler - 4 1/2 center to center	1
35	N22777	Bolt - 1/4 x 2 1/4 Lg.....	2
36	N42510	Locknut - 1/4 Flange Center Lock.....	2
37	D-5277	Lock Nut - 1/4 Flange Serrated	2
38	D-5279	Lock Nut - 3/8 Flange Serrated	5
39	W-475	Hex Bolt - 3/8 x 1 Lg.....	2
	N47870	Transmission Assembly (Includes all above items)	

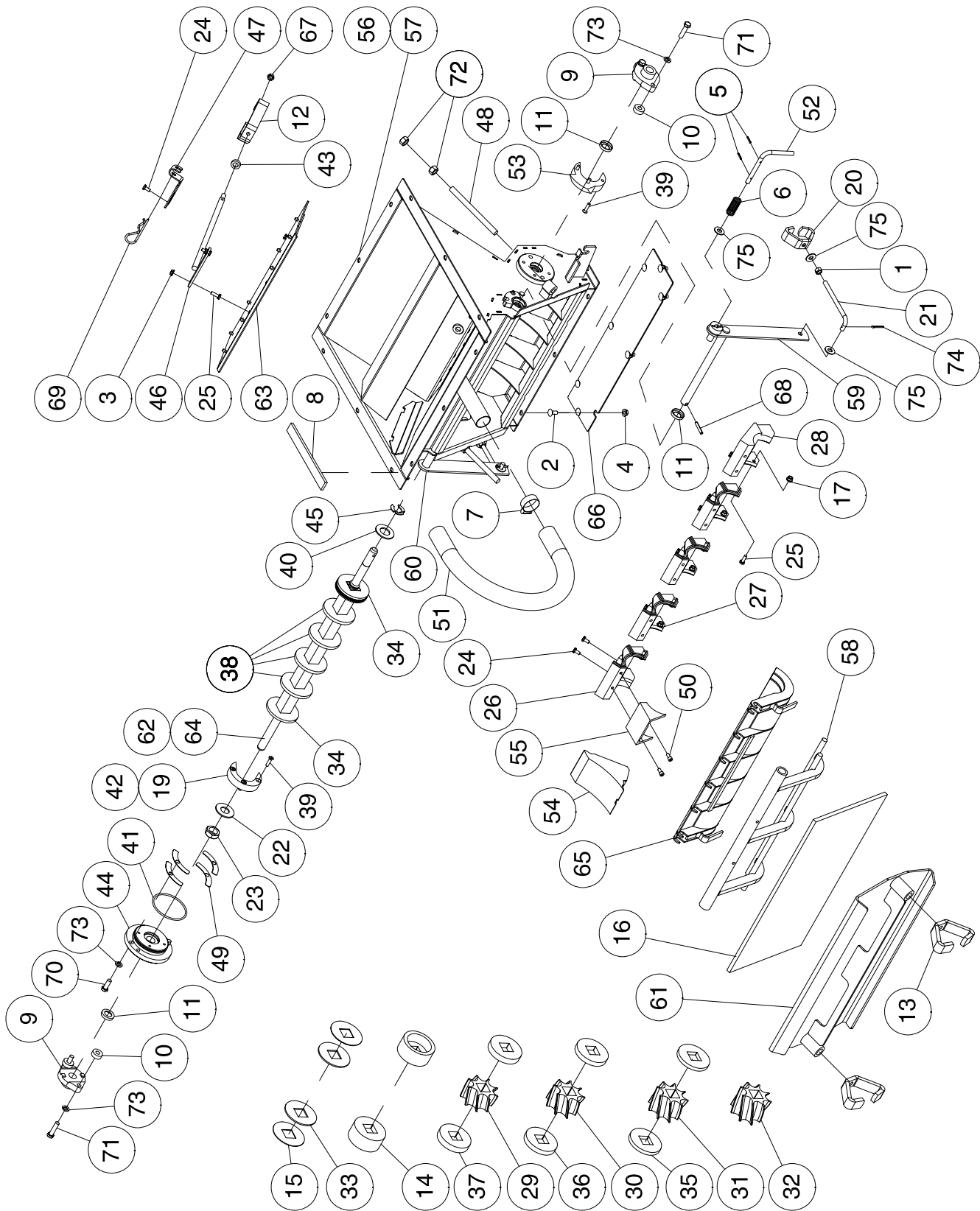
Transmission VR 3rd Tank - Option



Transmission - VR 3rd Tank - Option

Item	Part No.	Description	Qty
1	S-1198	Washer - 5/16 ID x 3/4 OD	4
2	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	10
3	D-5278	Flange Lock Nut - 5/16.....	10
4	D10747	Sprocket -40B48	2
5	D17946	Sprocket -40B12	1
6	N19706	Washer - 13/32 ID x 1 1/4 OD x.100	4
7	N53889	Flangette Bearing 1" Bore.....	5
8	N28193	Chain - #40 x 82 Link W/2 Conn-2 Pcs	2
9	N51201	Bracket - Upper.....	2
	N50198	Bracket - Upper - Prior to 2017	
10	N62937	Bracket - Lower	1
	N56620	Bracket - Lower - Prior to 2017	
11	P7C616	Carriage Bolt - 3/8 x 1 Lg	3
12	N29319	Danfoss Hydraulic Motor	1
13	N29338	Sprocket -40B24	1
14	N29340	Shaft-Slow Speed - 1 Dia x 5 Lg (Includes N16853 - Oillite Bushing).....	2
15	N29341	Shaft-Slow Speed - 1 Dia x 5 3/8 Lg	1
16	N29371	Shim - 12 Ga.	1
17	N37219	Carriage Bolt - 3/8 x 4 1/2 Lg	2
18	N45530	Shaft -Slow Speed - 40A12.....	1
19	D17808	Idler Sprocket - 40A17	2
20	N50842	Bushing - 0.385 ID x 5/8 OD x 3 1/4 Lg	2
21	N60701	Transmission Weldment.....	1
	N56468	Transmission Weldment - Prior to 2017	
22	N62935	Transmission Guard.....	1
	N56733	Transmission Guard - Prior to 2017	
23	N53692	Shaft-Meter End - 1 Dia x 10 13/16 Lg	1
24	N29375	Grove Pin - 5/16 x 1 1/2 Lg	1
25	P1318510	Hairpin - #19 - 0.143 x 4.375.....	1
26	S-752	Grease Zerk - 1/4 Straight.....	2
27	S10730	Key - 1/4 x 1/4 x 1 1/4 Lg	4
28	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	2
29	W-488	Hex Bolt - 1/2 x 2 Lg.....	2
30	W-514	Hex Nut - 3/8.....	2
31	W-516	Hex Nut - 1/2.....	2
32	W-523	Lockwasher - 3/8.....	2
33	W-525	Lockwasher - 1/2.....	2
34	N47715	Coupler - 4 1/2 center to center	1
35	N22777	Bolt - 1/4 x 2 1/4 Lg.....	2
36	N42510	Locknut - 1/4 Flange Center Lock.....	2
37	D-5277	Lock Nut - 1/4 Flange Serrated	2
38	D-5279	Lock Nut - 3/8 Flange Serrated	5
39	W-475	Hex Bolt - 3/8 x 1 Lg.....	2
	N56469	Transmission Assembly (Includes all above items)	

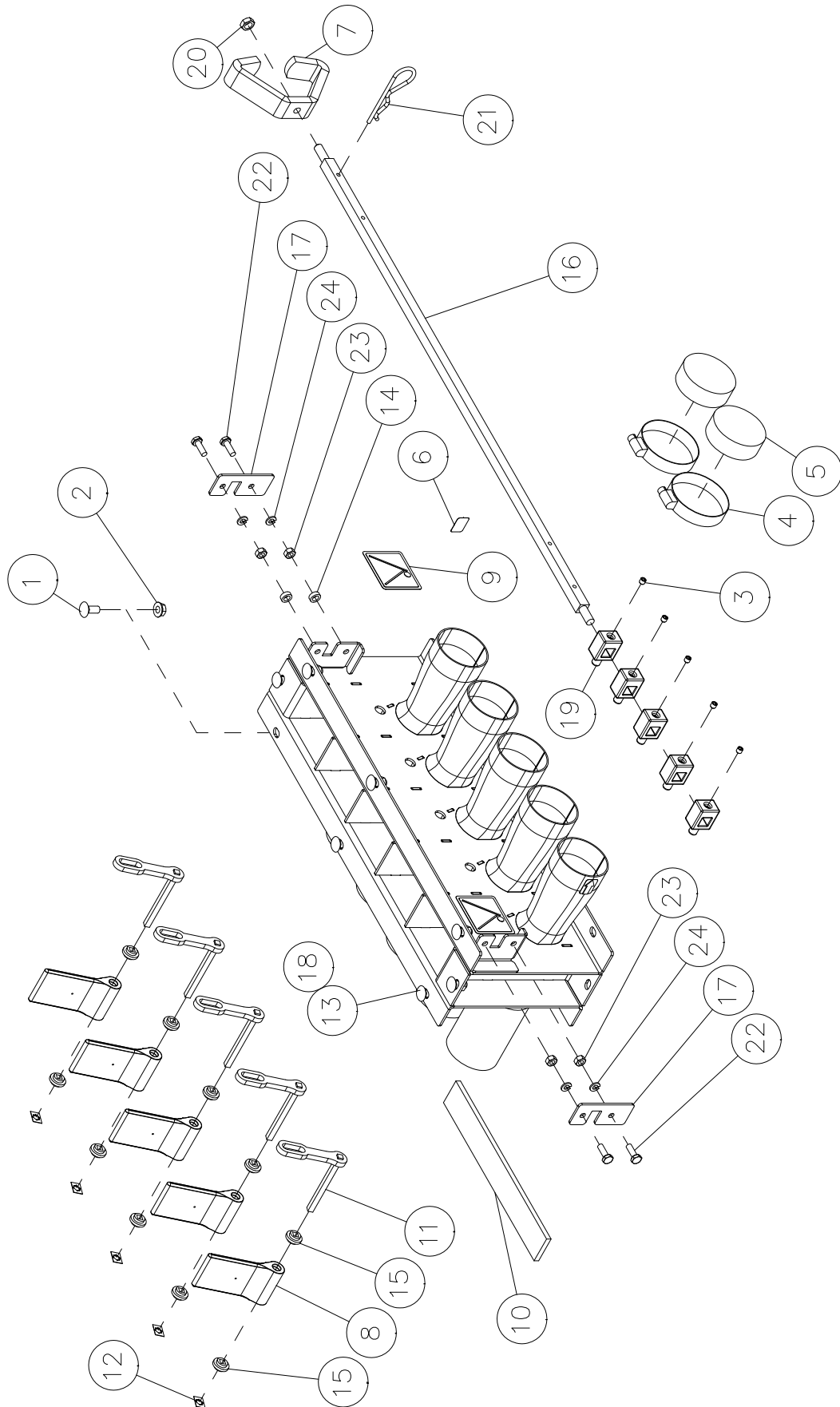
Cart Meter Body



Cart - Meter Body

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	W21476	Two Way Locknut - 3/8	2	48	N37120	Rod - 1/2 Dia.	2
2	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	8	49	N37210	Shim - Metering Body End Cap	4
3	D-5277	Serrated Flange Lock Nut - 1/4	2	50	N37339	Socket Head Capscrew - 1/4 x 1/2	2
4	D-5278	Flange Lock Nut - 5/16	8	51	N38662	Presurization Hose - 1.5 Dia.	1
5	N11457	Roll Pin - 1/8 Dia x 3/4 Lg	2	52	N40688	Lock Pin - 3/8 Dia	1
6	N11847	Spring	1	53	N40805	Spacer	1
7	N11906	Hose Clamp - 1 1/2 Dia.	1	54	N40980	Blank Run Cover	1
8	N15716	Seal Strip 1/4 x 1 (Bulk/Ft)	1	55	N42540	Blank-Off 1 Wide	1
9	N19269	Flange Bearing	2	56	N47480	Metering Body Assembly	1
10	N21602	Spacer - 13/32 ID x 3/8 Thick	4	57	N47481	Metering Body	1
11	N21659	Seal	4	58	N47497	Seed Plate Activator	1
12	N27350	Wing-Lock Nut - 3/8	1	59	N47822	Seed Plate Activator Handle	1
13	N27360	Wing-Lock Nut - 1/2	2	60	N47823	Seed Plate Activator Handle	1
14	N36106	Blank Wheel Spacer Half	2	61	N47825	Cleanout Door	1
15	N36110	Meterwheel Spacer 0.0625	4	62	N47827	Metershaft - Blank Assy	1
16	N36130	Seal Strip - 3/8 x 10 3/4 x 22 1/2 Lg	1	63	N47828	Shutoff Plate	1
17	N36143	Nylon Lock Nut - 1/4	4	64	N47830	Metershaft	1
18	N36259	Decal - Shut-Off	1	65	N64531	Seed Plate Assembly - Coarse Seeds	1
19	N36401	Spacer - End Relief	1		N64532	Seed Plate Assembly - Medium Seeds	
20	N36425	Wing - Lock Nut - 3/8	2		N64533	Seed Plate Assembly - Fine Seeds	
21	N36427	Adjusting Rod	2				
22	N36431	Washer - 7/8 ID Stainless Steel	1				
23	N36432	Locknut - 7/8 Nylon Insert	1	N47831	Seed Plate SS - Coarse Seeds		1
24	N36556	Hex Bolt - 1/4 x 1/2 Lg	10	N47834	Seed Plate SS - Coarse Seeds - Coated		
25	N36597	Hex Bolt - 1/4 x 3/4 Lg	6	N47832	Seed Plate SS - Medium Seeds		
26	N36708	Backplate Left	1	N47833	Seed Plate SS - Fine Seeds		
27	N36709	Backplate Center	3				
28	N36710	Backplate Right	1	N48482	Cover Plate		1
29	N36717	Meterwheel - 7 Outlet	1	S-748	Hex Jam Nut - 3/8		1
30	N36718	Meterwheel - 8 Outlet	1	S-4781	Spring Pin - 1/4 x 1 1/2		2
31	N36719	Meterwheel - 9 Outlet	1	W-131	Hairpin - 5/32		1
32	N36720	Meterwheel - 10 Outlet	1	W-475	Hex Bolt - 3/8 x 1 Lg		2
33	N36731	Meterwheel Spacer 0.125	4	W-477	Hex Bolt - 3/8 x 1 1/2 Lg		4
34	N36732	Meterwheel Spacer 0.25	2	W-516	Hex Nut - 1/2		4
35	N36733	Meterwheel Spacer 0.375	2	W-523	Lockwasher - 3/8		6
36	N36734	Meterwheel Spacer 0.5	2	W-528	Cotter Pin - 1/8 x 1 Lg		2
37	N36735	Meterwheel Spacer 0.625	2	W-538	Washer - 7/16 ID x 1 OD x 14 Ga		5
38	N36736	Meterwheel Spacer	4				
39	N36738	Hex Socket Cap Screw	6				
40	N36744	Washer - 1" ID Stainless Steel	1				
41	N36748	O-Ring	1				
42	N36749	Right Bearing Assembly	1				
43	N36766	Seal - 1/2 In Shaft	1				
44	N36774	End Plate	1				
45	N36813	Retaining Ring - 1 Dia	1				
46	N36945	Shutoff Handle	1				
47	N37115	Retainer Clip	1				

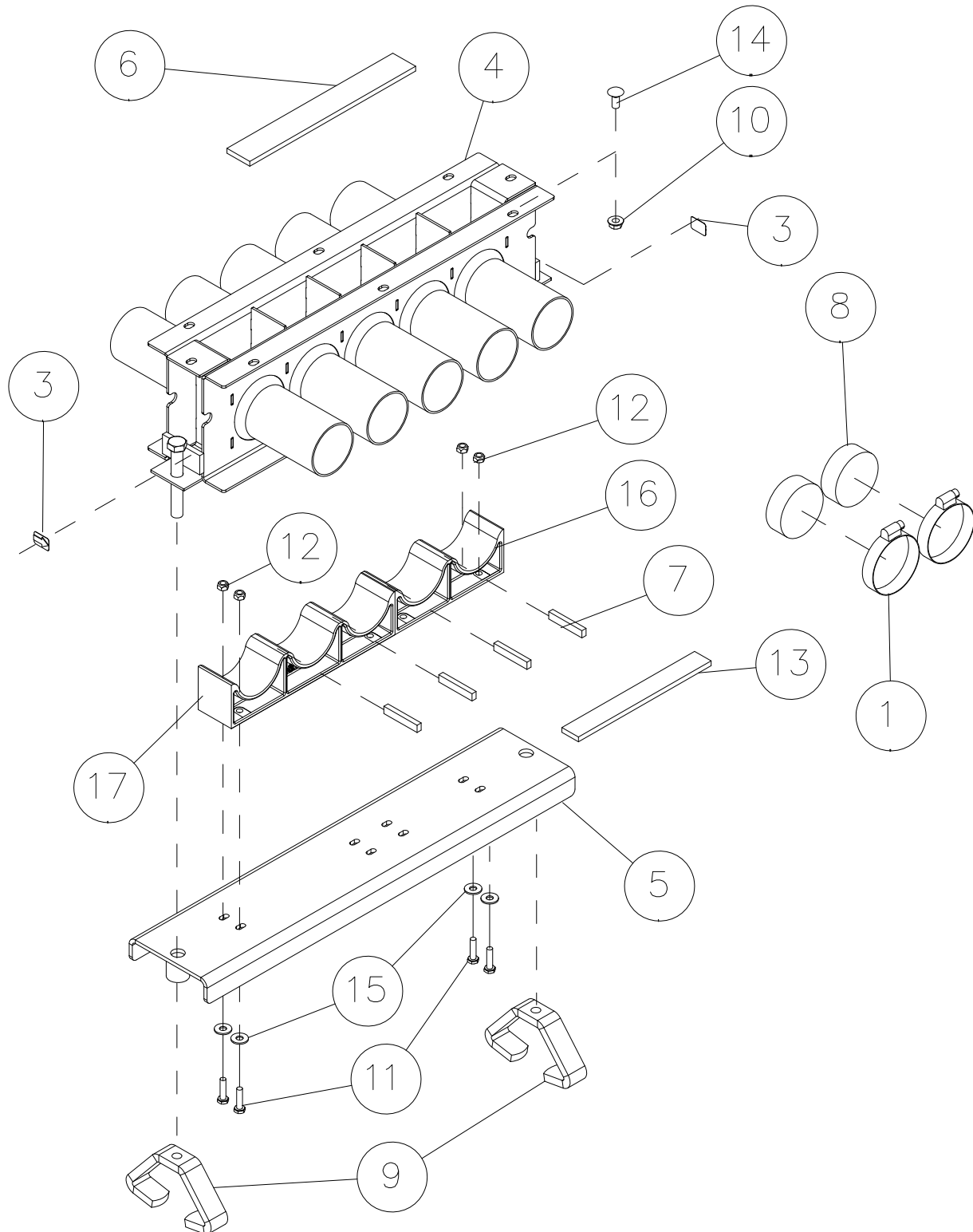
Cart Double Shoot Collector Body



Cart - Double Shoot Collector Body

Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	8
2	D-5278	Flange Lock Nut - 5/16.....	8
3	K25314	Set Screw - 1/4 x 1/4.....	5
4	N11905	Hose Clamp - HS-44.....	As req
5	N11907	Plastic Cap.....	As req
6	N19000	Decal - "Air Flow"	2
7	N27350	Wing-Lock Nut - 3/8	1
8	N36114	Collector Valve.....	5
9	N36265	Decal - Double Shoot Valve.....	2
10	N37190	Seal Strip - 1/4 X 1 3/8 x 44 Lg	1
11	N37646	Flapper Handle Assembly	5
12	N42163	Bolt Retainer	5
13	N47495	Double Shoot Collector - Stainless Steel	1
14	N37888	Spacer Bushing - 1/2 OD x .310 ID.....	2
15	N37917	Zytel Bushing	10
16	N44136	Control Rod	1
17	N37942	Bracket.....	2
18	*****		
19	N37957	Drive Connector - 1/2	5
20	S-748	Hex Jam Nut - 3/8	1
21	S33598	Hairpin - #10.....	1
22	W-469	Hex Head - 1/4 x 3/4 Lg	4
23	W-512	Hex Nut - 1/4	4
24	W-521	Lockwasher - 1/4.....	4
		For Blank Off runs replace Items 11 & 12 with the following items	
	H-4696	Bolt - 1/4 x 3 LG	As req
	N42510	Flange Lock Nut - 1/4 W/Center Lock	As req

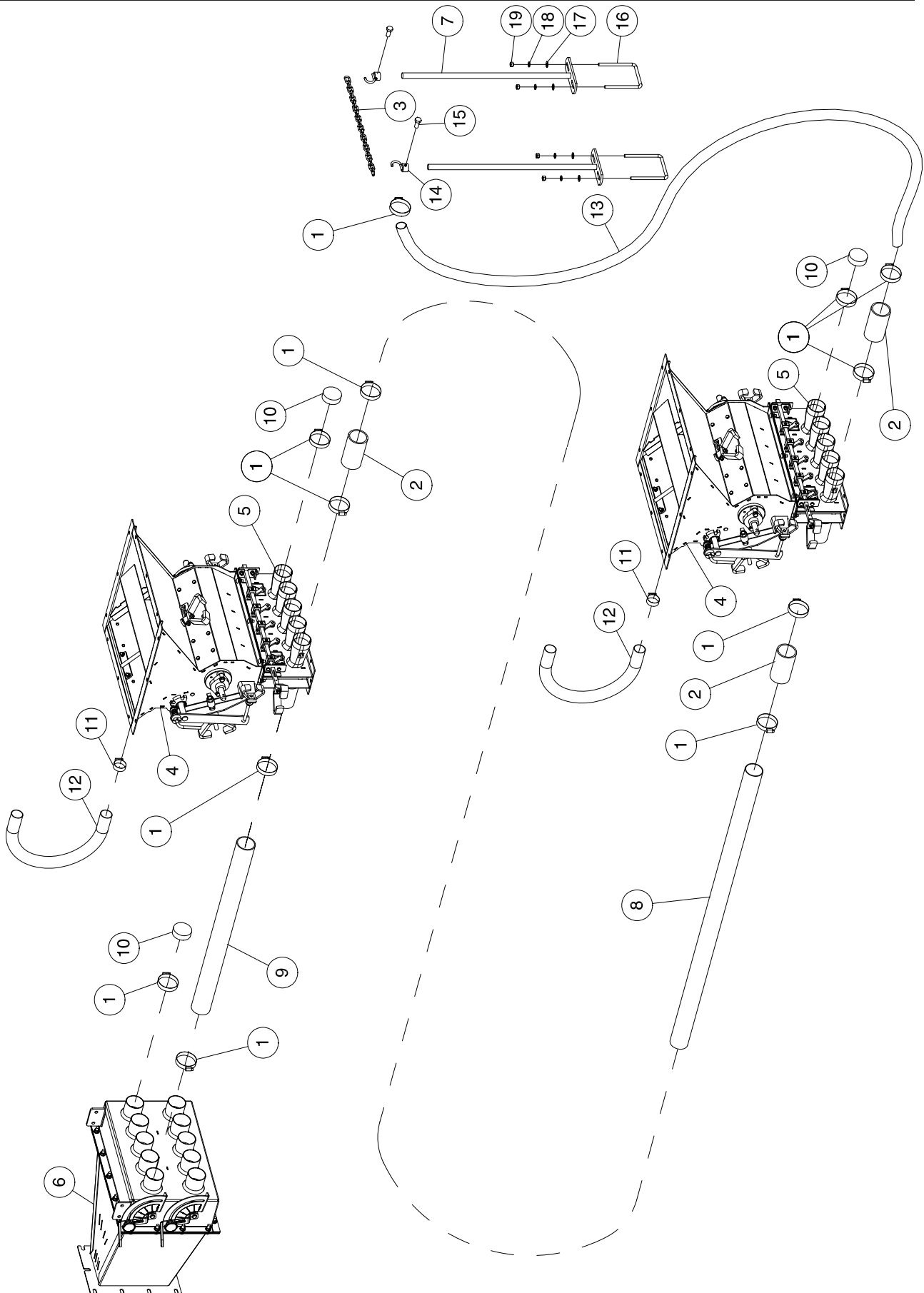
Cart Single Shoot Collector Body



Cart - Single Shoot Collector Body

Item	Part No.	Description	Qty
1	N11905	Hose Clamp - HS-44	As Req
2	N15716	Seal Strip - 1/4 x 1 (Bulk/ft) x 44 Lg.....	
3	N19000	Decal - "Air Flow"	2
4	N47485	Single Shoot Collector - 5 run - Stainless Steel	1
5	N47494	Collector Bottom - 5 run.....	1
6	N37190	Seal Strip - 1/4 x 1 3/8 (Bulk/ft) x 44 Lg.....	1
7	N37944	Seal Strip - 1/4 x 2 Lg.....	4
8	N11907	Plastic Cap	As Req
9	N27360	Wing-Lock Nut - 1/2	2
10	D-5278	Locknut - 5/16 Serrated.....	12
11	W-1552	Hex Bolt - 1/4 x 1 Lg.....	6
12	N22778	Locknut - 1/4 Nylon Insert.....	6
13	N19449	Seal Strip - 3/8 x 1 (Bulk/ft) x 44 Lg.....	1
14	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	12
15	S-1198	Washer - 5/16 ID x 3/4 OD x .065	6
16	N47835	Collector Cups - 2 run	1
17	N36266	Collector Cups - 3 run	1

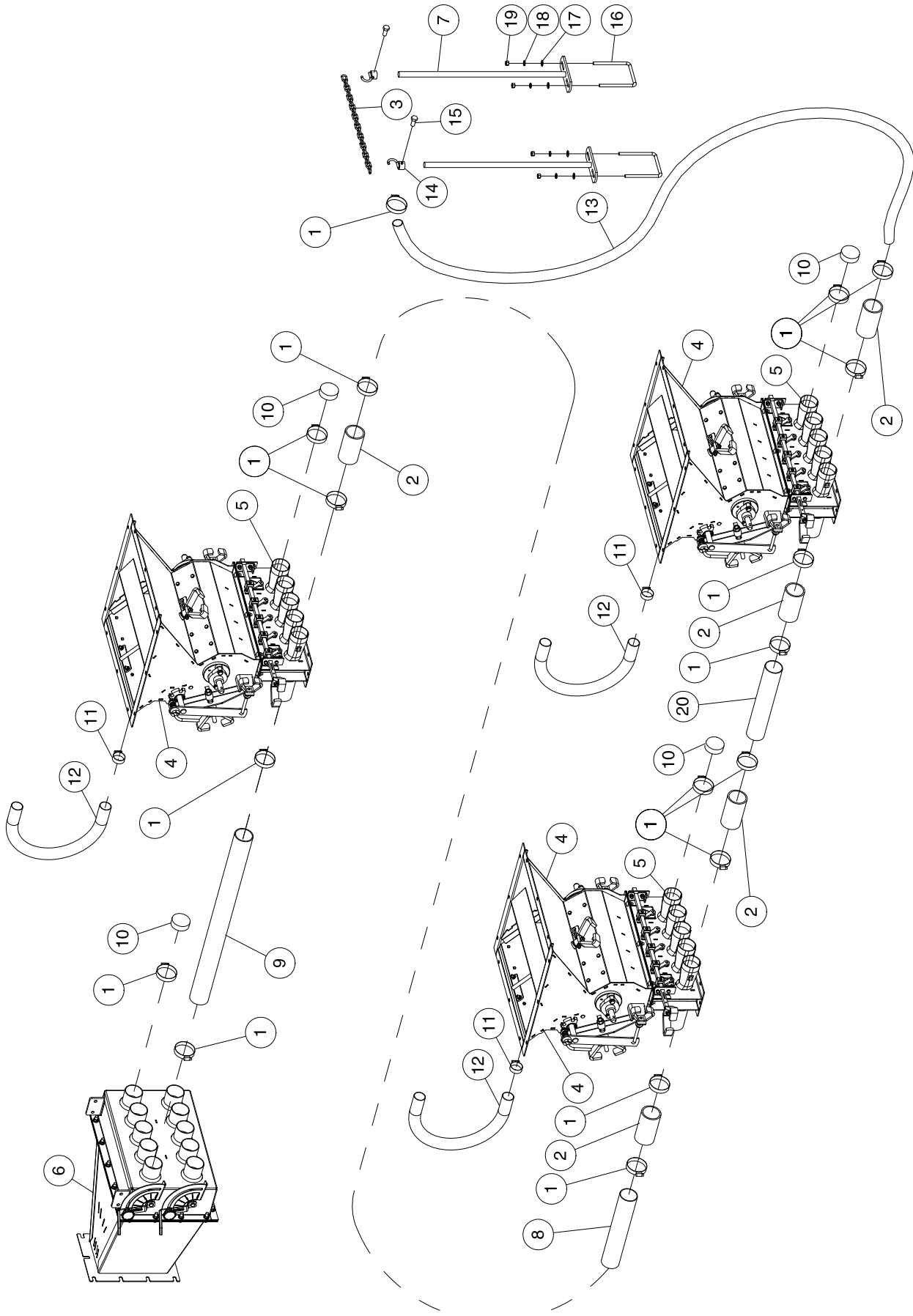
Cart 2 Tank Single Shoot Distribution



Cart - 2 Tank Single Shoot Distribution

Item	Part No.	Description	No. Used		
			# of Primaries		
			3	4	5
1	N11905	Hose Clamp - HS-44.....	42	46	50
2	N19428	Hose - 2.52 ID x 2.77 OD x 5 Lg.....	9	12	15
3	N19448	Chain - 3/16 x 80 Links	1	1	1
4	N47480	Metering Body Assembly.....	2	2	2
5	N47492	Single Shoot Collector.....	2	2	2
6	N47840	Plenum Assembly	1	1	1
7	N49638	Hose Holder	2	2	2
8	N64030	Distribution Pipe - 2 1/2 OD x 16 Ga x 53 Lg Stainless	3	4	5
9	R48005	Hose 2 1/2 ID Goodyear x 32 Lg	3	4	5
10	N11907	Plastic Cap.....	15	10	5
11	N11906	Hose Clamp - 1 1/2 Dia	2	2	2
12	N38662	Hose - 1 1/2 OD x 26 Lg	2	2	2
13	R480055	Hose 2 12/ Goodyear (See Distribution Section)	3	4	5
14	N19717	Chain Hook	2	2	2
15	N24396	Set Screw.....	2	2	2
16	N15098	Ubolt - 3/8 x 4-3/8 x 5.....	2	2	2
17	D-5489	Washer - 3/8.....	4	4	4
18	W-523	Lockwasher - 3/8.....	4	4	4
19	W-514	Nut - 3/8	4	4	4

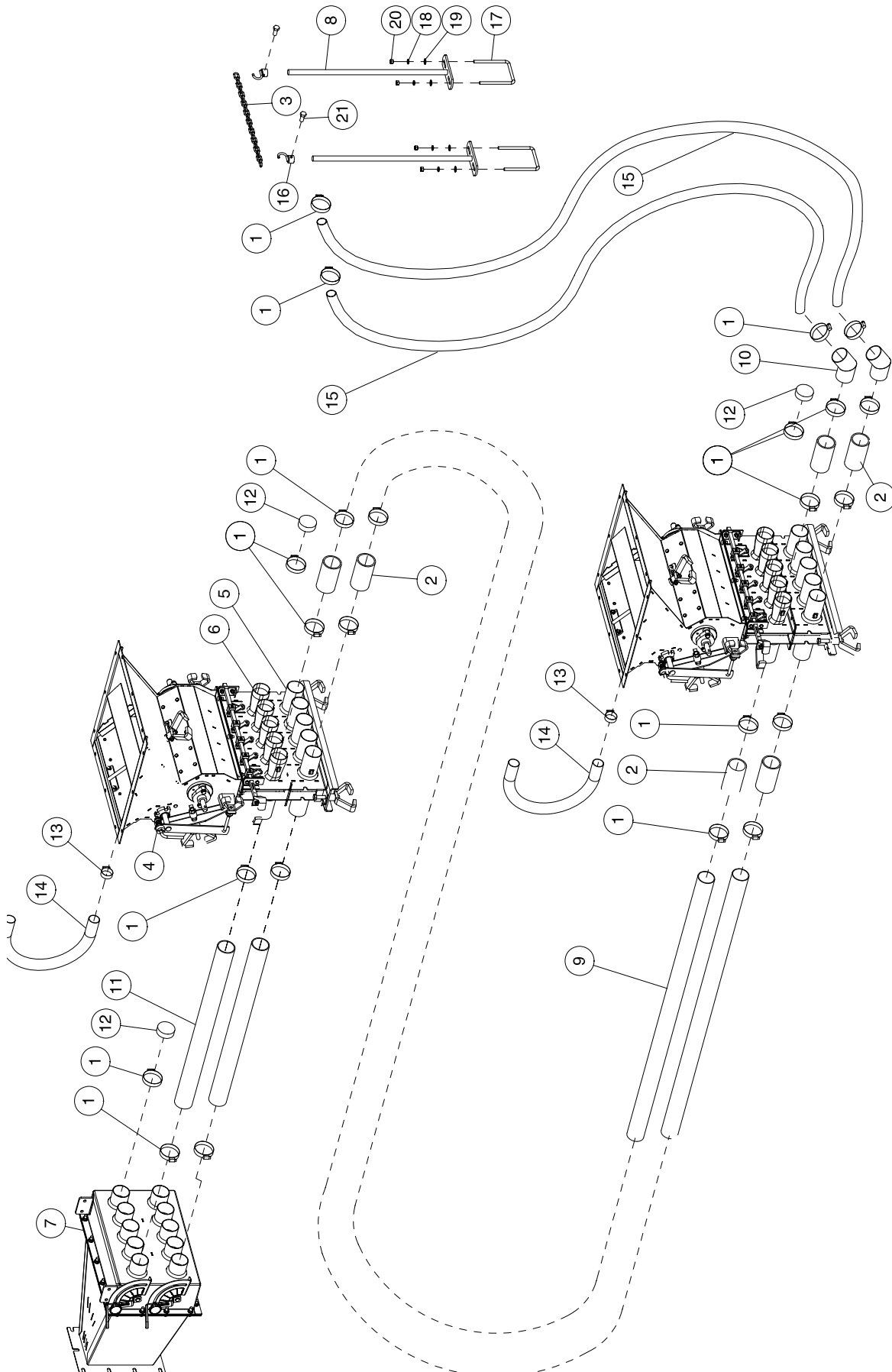
Cart 3 Tank Single Shoot Distribution



Cart - 3 Tank Single Shoot Distribution

Item	Part No.	Description	No. Used		
			# of Primaries		
			3	4	5
1	N11905	Hose Clamp - HS-44.....	58	64	70
2	N19428	Hose - 2.52 ID x 2.77 OD x 5 Lg.....	15	20	25
3	N19448	Chain - 3/16 x 80 Links	1	1	1
4	N47480	Metering Body Assembly.....	3	3	3
5	N47492	Single Shoot Collector.....	3	3	3
6	N47840	Plenum Assembly	1	1	1
7	N49638	Hose Holder	2	2	2
8	N64031	Distribution Pipe - 2 1/2 OD x 16 Ga x 19.5 Lg Stainless.....	3	4	5
9	R48005	Hose 2 1/2 ID Goodyear x 32 Lg	3	4	5
10	N11907	Plastic Cap.....	19	12	5
11	N11906	Hose Clamp - 1 1/2 Dia	3	3	3
12	N38662	Hose - 1 1/2 OD x 26 Lg	3	3	3
13	R480055	Hose 2 12/ Goodyear (See Distribution Section)	3	4	5
14	N19717	Chain Hook	2	2	2
15	N24396	Set Screw.....	2	2	2
16	N15098	Ubolt - 3/8 x 4-3/8 x 5.....	2	2	2
17	D-5489	Washer - 3/8.....	4	4	4
18	W-523	Lockwasher - 3/8.....	4	4	4
19	W-514	Nut - 3/8	4	4	4
20	N64042	Distribution Pipe - 2 1/2 OD x 16 Ga x 21 Lg Stainless	3	4	5

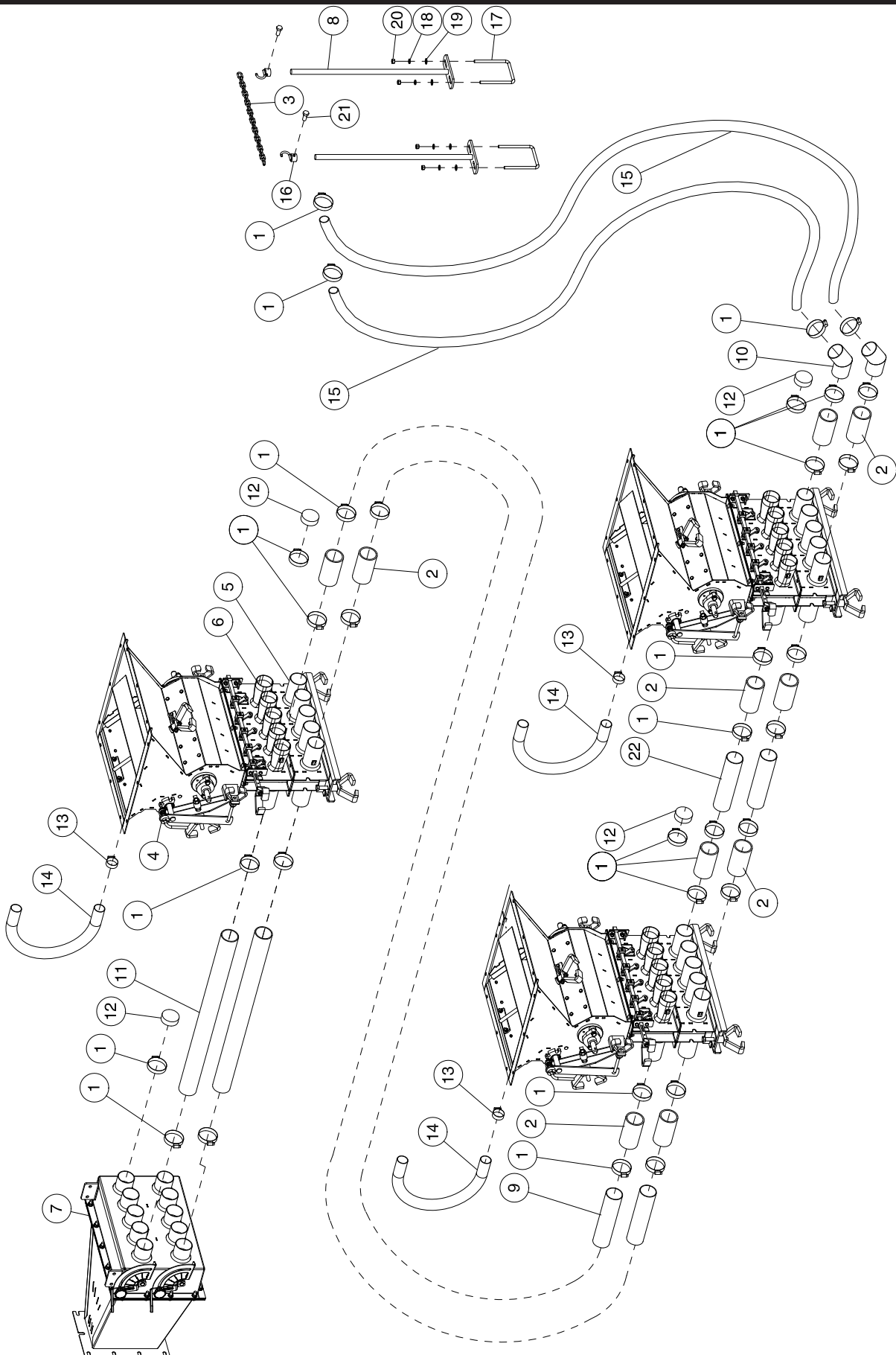
Cart 2 Tank Double Shoot Distribution



Cart - 2 Tank Double Shoot Distribution

Item	Part No.	Description	No. Used		
			# of Primaries		
			3	4	5
1	N11905	Hose Clamp - HS-44.....	80	90	100
2	N19428	Hose - 2.52 ID x 2.77 OD x 5 Lg.....	18	24	30
3	N19448	Chain - 3/16 x 80 Links	1	1	1
4	N47480	Metering Body Assembly.....	2	2	2
5	N47492	Single Shoot Collector.....	2	2	2
6	N47495	Double Shoot Collector	2	2	2
7	N47840	Plenum Assembly	1	1	1
8	N19531	Hose Holder	2	2	2
9	N64030	Distribution Pipe - 2 1/2 OD x 16 Ga x 53 Lg Stainless	6	8	10
10	N49638	2 1/2 OD Tube	6	8	10
11	R48005	Hose 2 1/2 ID Goodyear x 32 Lg	6	8	10
12	N11907	Plastic Cap.....	20	10	0
13	N11906	Hose Clamp - 1 1/2 Dia	2	2	2
14	N38662	Hose - 1 1/2 OD x 26 Lg	2	2	2
15	R480055	Hose 2 12/ Goodyear (See Distribution Section)	6	8	10
16	N19717	Chain Hook	2	2	2
17	N15098	Ubolt - 3/8 x 4-3/8 x 5 Sq	2	2	2
18	D-5489	Washer - 3/8	4	4	4
19	W-523	Lockwasher - 3/8	4	4	4
20	W-514	Nut - 3/8	4	4	4
21	N24396	Set Screw - 1/4 X 1/2 Lg	2	2	2

Cart 3 Tank Double Shoot Distribution

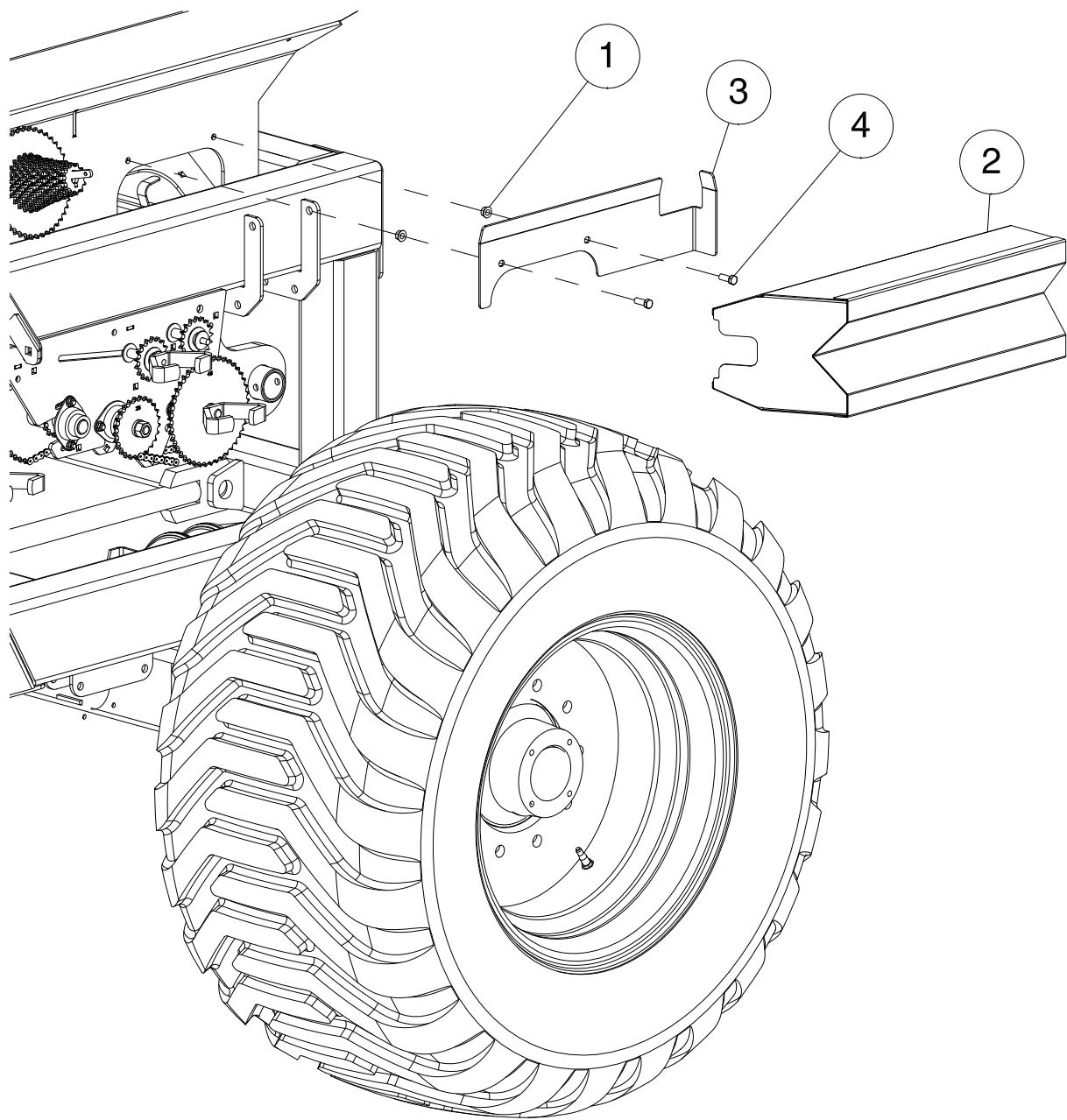


Cart - 3 Tank Double Shoot Distribution

Item	Part No.	Description	No. Used		
			# of Primaries		
			3	4	5
1	N11905	Hose Clamp - HS-44.....	112	126	140
2	N19428	Hose - 2.52 ID x 2.77 OD x 5 Lg.....	24	32	40
3	N19448	Chain - 3/16 x 80 Links	1	1	1
4	N47480	Metering Body Assembly.....	2	2	2
5	N47492	Single Shoot Collector.....	2	2	2
6	N47495	Double Shoot Collector	2	2	2
7	N47840	Plenum Assembly	1	1	1
8	N19531	Hose Holder	2	2	2
9	N64031	Distribution Pipe - 2 1/2 Dia x 16 Ga x 19 1/2 Lg Stainless.....	6	8	10
10	N49638	2 1/2 OD Tube	6	8	10
11	R48005	Hose 2 1/2 ID Goodyear x 32 Lg	6	8	10
12	N11907	Plastic Cap.....	20	10	0
13	N11906	Hose Clamp - 1 1/2 Dia	2	2	2
14	N38662	Hose - 1 1/2 OD x 26 Lg	2	2	2
15	R480055	Hose 2 12/ Goodyear (See Distribution Section)	6	8	10
16	N19717	Chain Hook	2	2	2
17	N15098	Ubolt - 3/8 x 4-3/8 x 5 Sq	2	2	2
18	D-5489	Washer - 3/8	4	4	4
19	W-523	Lockwasher - 3/8	4	4	4
20	W-514	Nut - 3/8	4	4	4
21	N24396	Set Screw - 1/4 X 1/2 Lg	2	2	2
22	N64042	Distribution Pipe - 2 1/2 OD x 16 Ga x 21 Lg Stainless	6	8	10

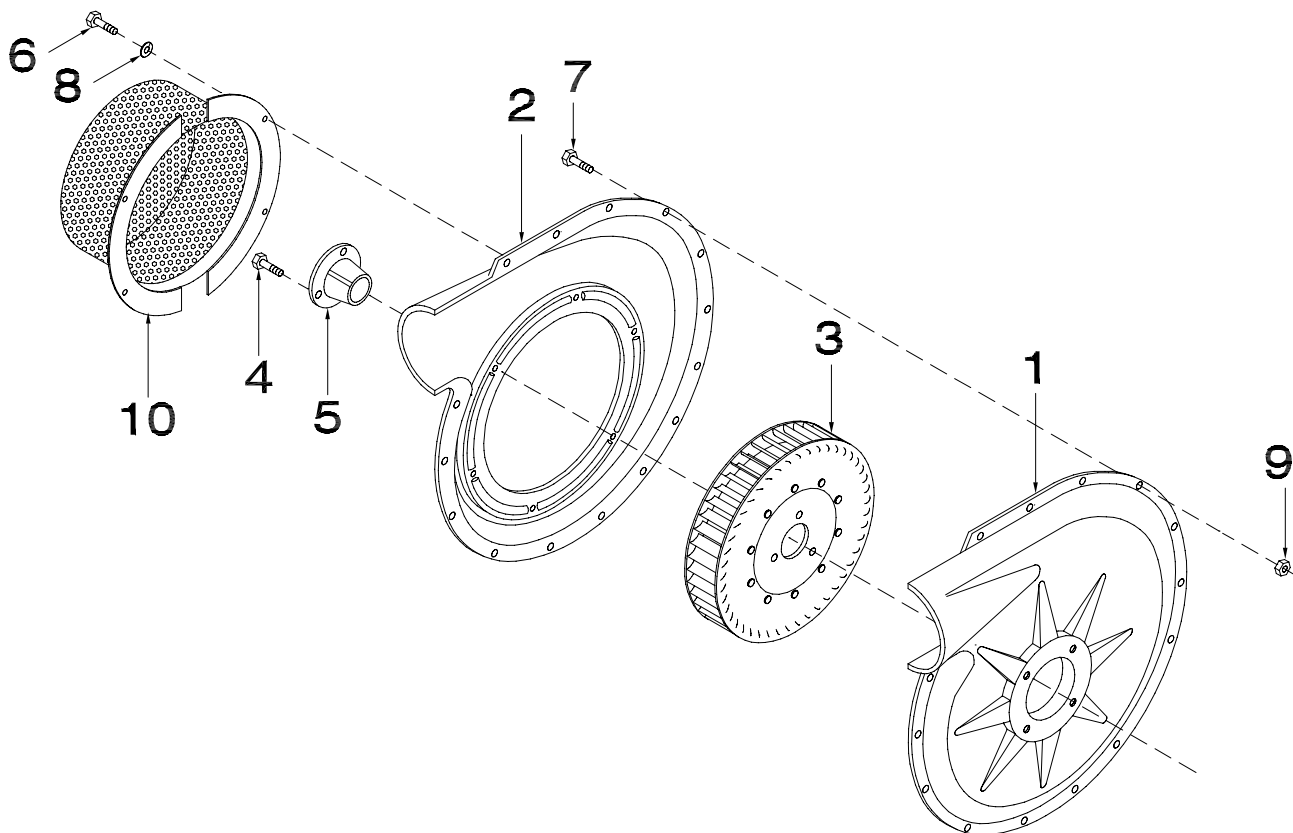
**Cart
Sample Collection Tray**

Used with 3rd tank option.



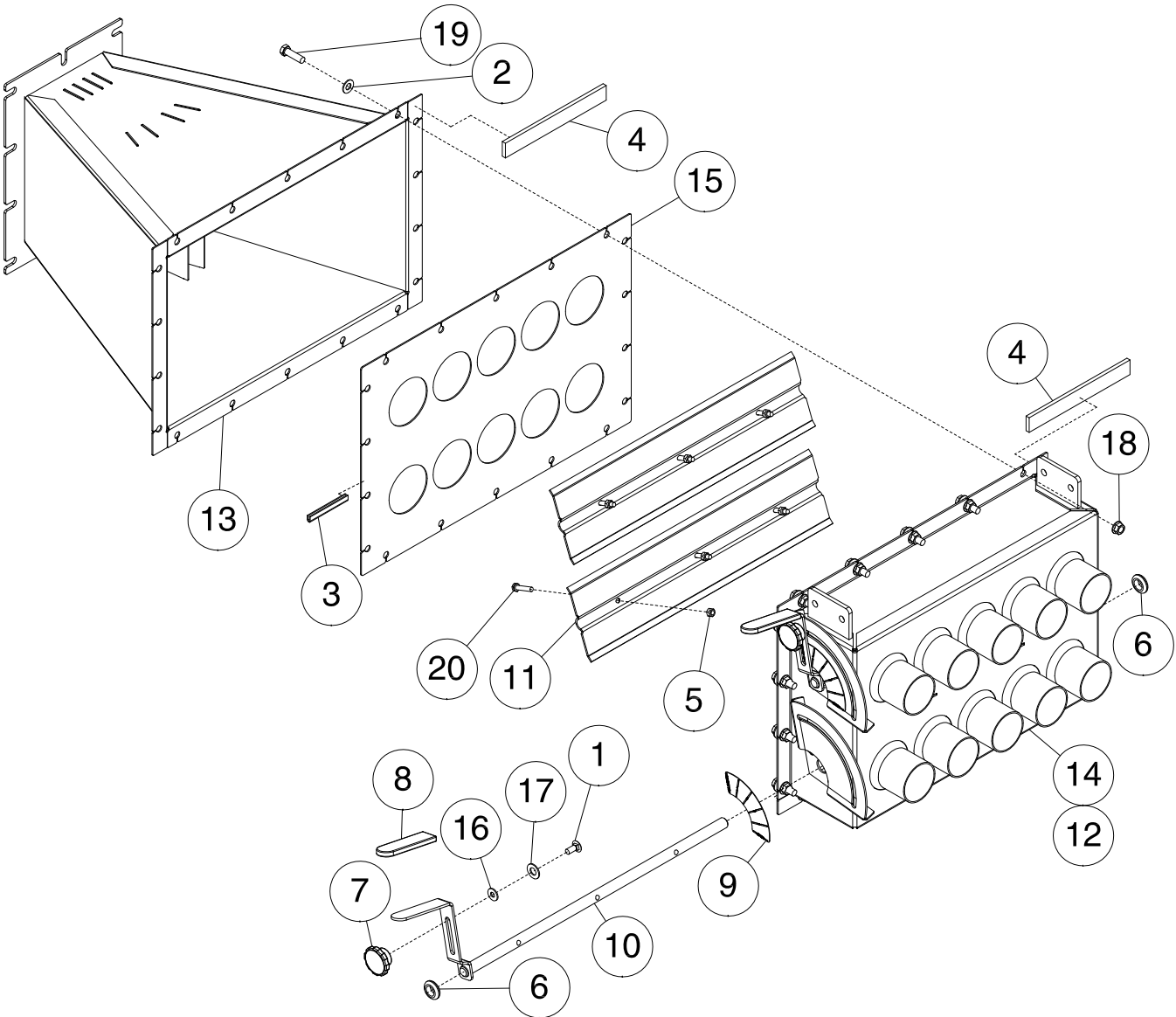
Item	Part No.	Description	Qty
1	D-5279	Flange Lock Nut - 3/8 Serrated	2
2	N50040	Sample Tray	1
3	N58092	Mounting Bracket	1
4	W-475	Hex Bolt - 3/8 x 1 Lg.....	2

Fan - N16263 Crary Hydraulic Drive



Item	Part No.	Description	Qty
1	N16708	Bearing Plate Casting	1
2	N16709	Inlet Casting	1
3	N16710	Rotor	1
4	N16716	Machine Screw - #10-24 x 1.....	3
5	N16712	Tapered Bushing (Includes Hardware)	1
6	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	6
7	W-1552	Hex Bolt - 1/4 x 1 Lg.....	15
8	S-4747	Flatwasher - 1/4	6
9	D-5277	Locknut - 1/4 Serrated.....	15
10	N28190	Screen - Fan Inlet.....	1
	N29373	Key - 6 mm SQ x 15 (Not Shown)	1
	N16263	Fan (Includes All Above Items Except for #10)	

Cart
Plenum - N47840



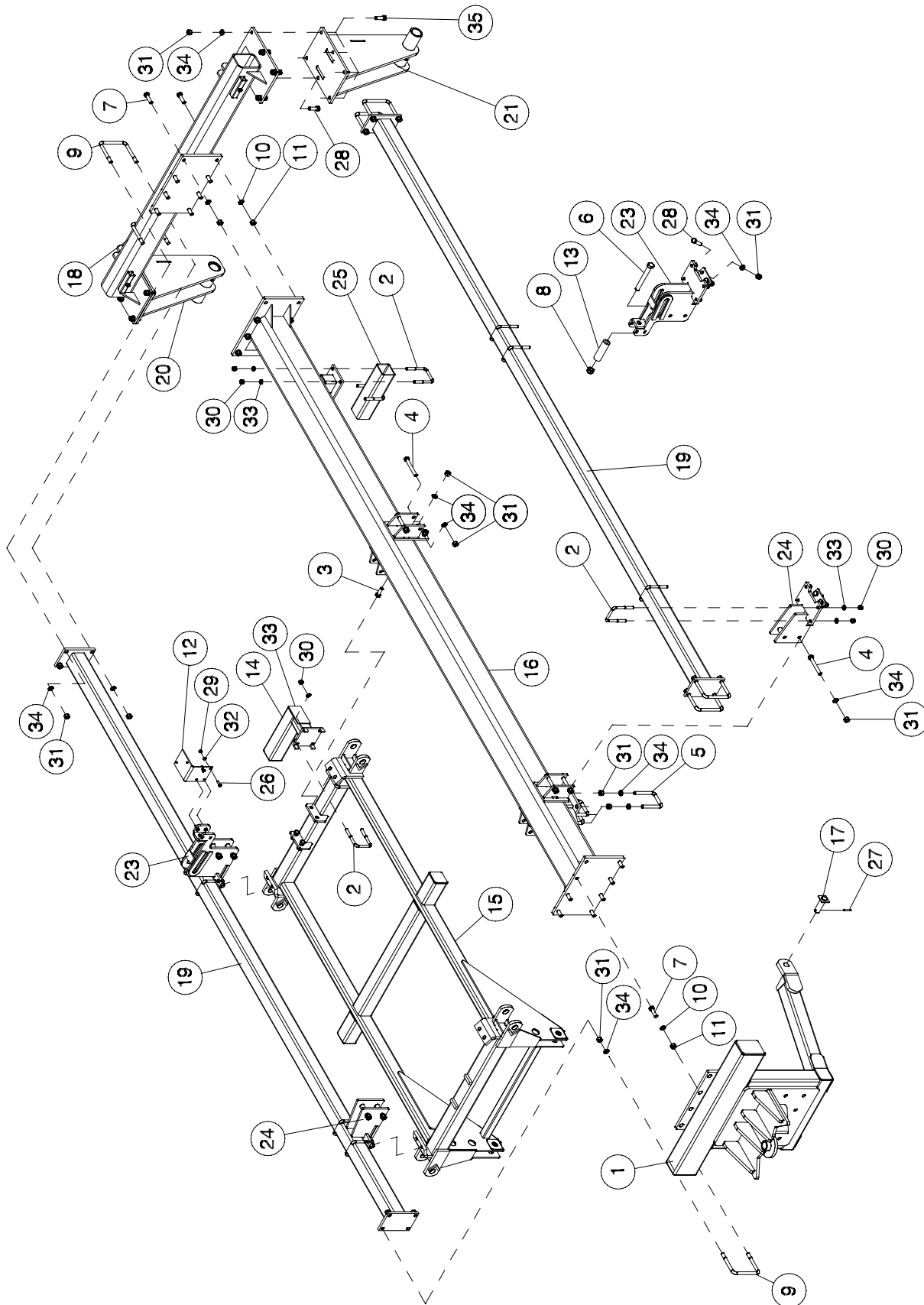
Item	Part No.	Description	Qty
1	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	2
2	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga.....	18
3	D-5590	Seal - 1/16 x 3/4 (Bulk/Ft)	1
4	N15716	Seal Strip 1/4 x 1 (Bulk/Ft).....	2
5	N22778	Locknut - 1/4 Nylon Insert.....	6
6	N37357	Grommet.....	4
7	N37456	Fluted Knob.....	2
8	N37483	Handle Grip.....	2
9	N37492	Plenum Decal.....	2
10	N47836	Control Arm	2
11	N47837	Plenum - Plate	2
12	N47840	Plenum Assembly - Contains All Items Listed	1
13	N47841	Plenum Body.....	1
14	N47843	Plenum Front.....	1
15	N47844	Plenum Baffle.....	1
16	S-1198	Washer - 5/16 ID x 3/4 OD x .065	2
17	S-1201	Washer - 15/32 ID x 59/64 OD x 16 Ga.....	2
18	S27987	Flange Lock Nut - 3/8 W/Center Lock	18
19	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	18
20	W-470	Hex Bolt - 1/4 x 1 1/4 Lg.....	6

Section 2: Drill Unit

Section Contents

Main Frame - 25 & 31 Ft	2-2
Wing Lift, Wing Frame & Truss - 25 & 31 Ft	2-4
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Wing Lift Lock - 25 & 31 Ft - Prior to 2017	2-8
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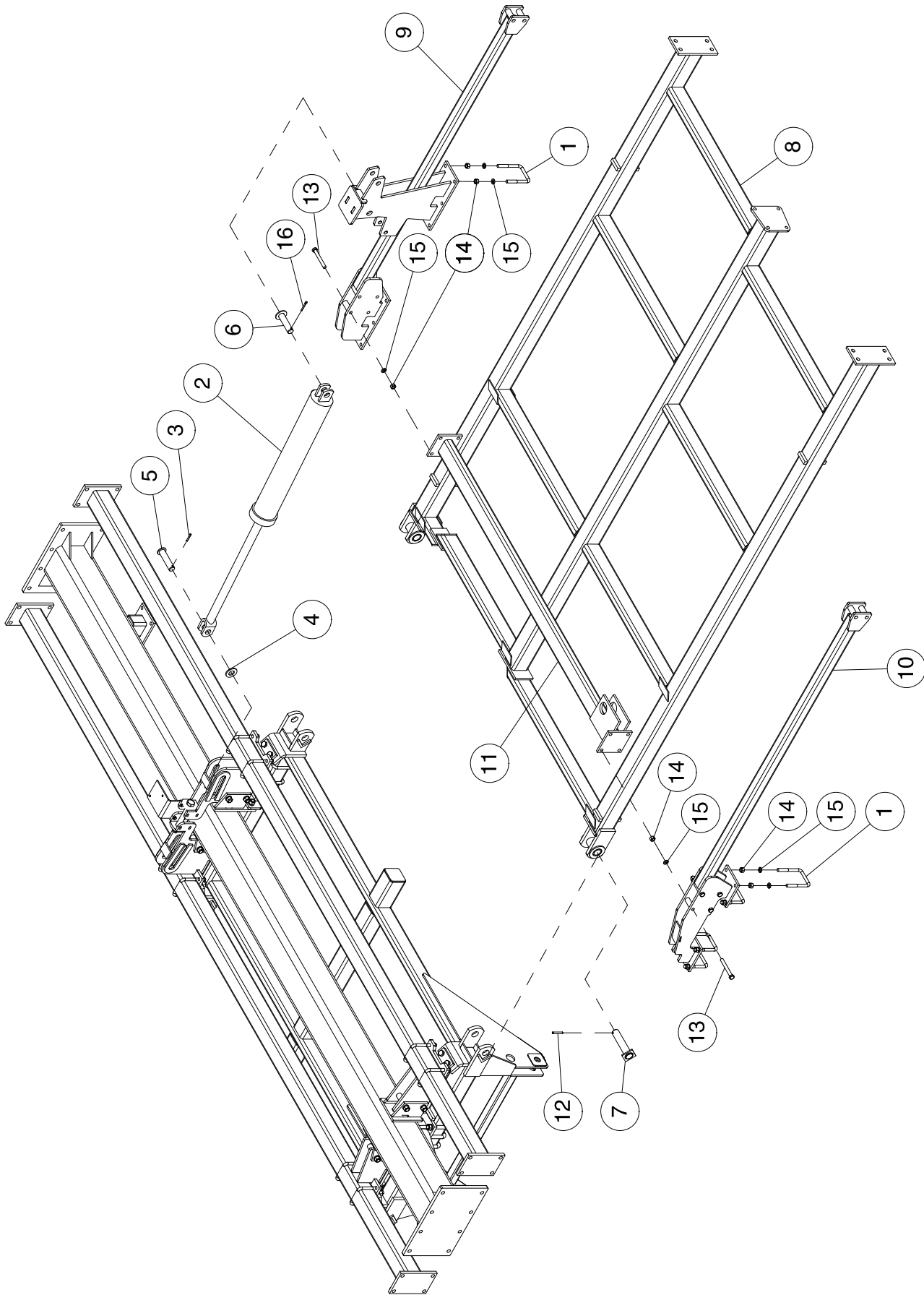
Main Frame - 25 & 31 Ft



Main Frame - 25 & 31 Ft

Item	Part No.	Description	Qty
1	S45298	Front Hitch.....	1
2	C-219	U-Bolt - 5/8 x 4 x 5 9/16	10
3	C-695	Hex Bolt - 3/4 x 2 Lg.....	4
4	C-3919	Hex Bolt - 3/4 x 5 1/2 Lg.....	8
5	C-5561	U-Bolt - 3/4 x 4 x 5 9/16	5
6	C18597	Hex Bolt - 1 x 8 Lg.....	1
7	J12344	Hex Bolt - 1 x 3 Lg.....	16
8	D-5274	Locknut - 1 Unitorque.....	1
9	N34626	U-Bolt - 3/4 x 7 x 6 1/2	8
10	C-705	Lockwasher - 1.....	16
11	W-520	Hex Nut - 1	16
12	S39565	Valve Mounting Plate.....	1
13	S45277	Spacer - 1.031 ID x 1 1/2 OD x 5 1/2 Lg	1
14	S51022	Extention Stub.....	1
15	S44489	Main Frame	1
16	S44491	Main Depth Beam	1
17	C18531	Pin - 1 3/8 x 3 5/8 UL	2
18	S44495	Rear Axle Tube	1
19	S44902	Brace Tube.....	2
20	S51013	Rear Axle Bracket - 3 Lift - LT.....	1
21	S51014	Rear Axle Bracket - 3 Lift - RT.....	1
22	S44965	Castor Fork - Main.....	2
23	S44969	Wing Lift Bracket	2
24	S44971	Wing Lift Bracket	2
25	S49886	Tube - 17 3/4 Lg	1
26	W-187	Hex Bolt - 3/8 x 1 1/4 Lg.....	4
27	J12281	Spring Pin - 5/16 x 2 Lg.....	2
28	W-509	Hex Bolt - 3/4 x 2 1/2 Lg.....	12
29	W-514	Hex Nut - 3/8	4
30	W-517	Hex Nut - 5/8	22
31	W-518	Hex Nut - 3/4	74
32	W-523	Lockwasher - 3/8.....	4
33	W-526	Lockwasher - 5/8.....	22
34	W-527	Lockwasher - 3/4.....	74
35	W-1553	Hex Head Bolt - 3/4 x 2 1/4 Lg.....	10

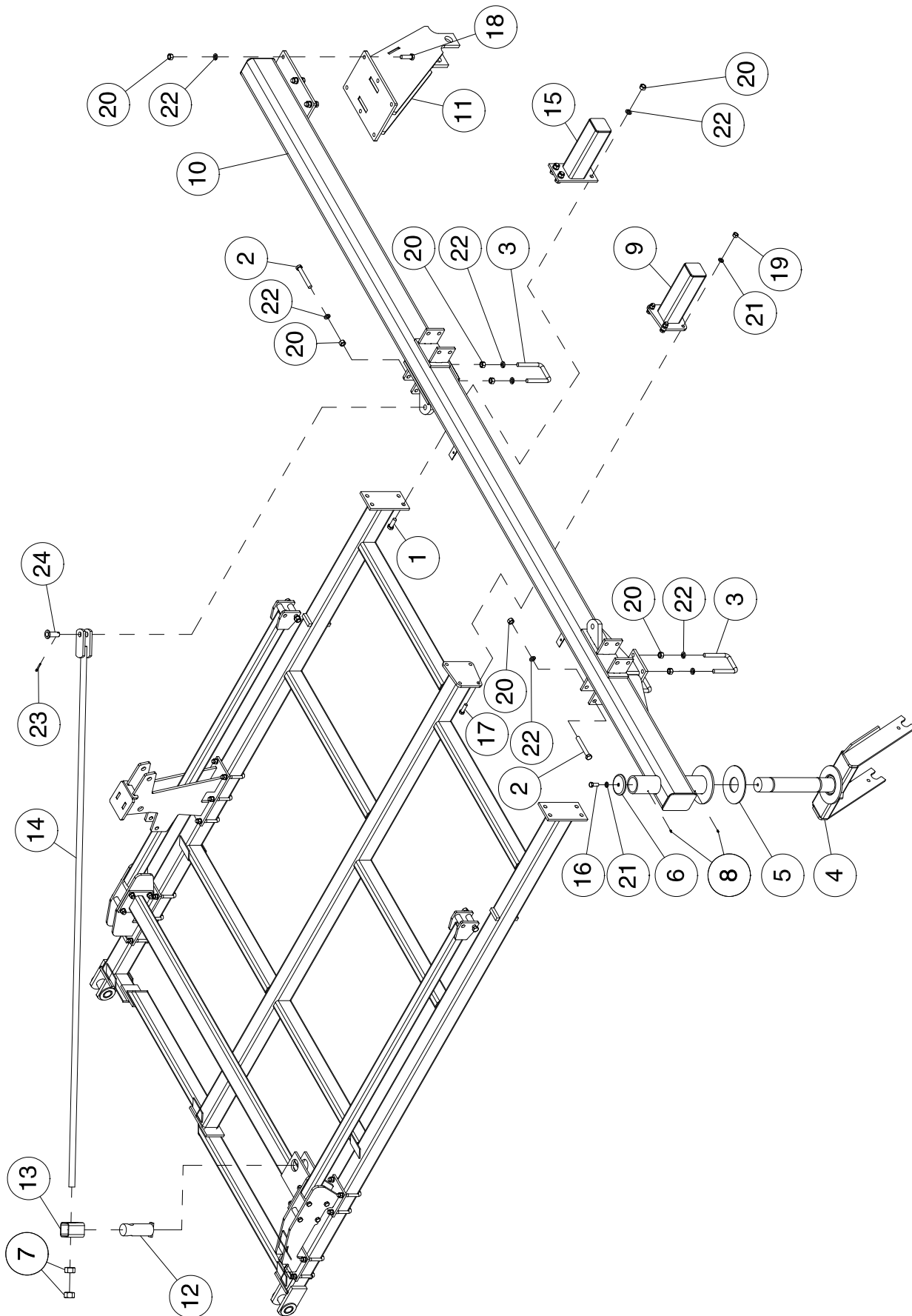
Frames & Hitching Wing Lift, Wing Frame & Truss - 25 & 31 Ft



Wing Lift, Wing Frame & Truss - 25 & 31 Ft

Item	Part No.	Description	Qty
1	C-219	U-Bolt - 5/8 x 4 x 5-9/16	10
2	C34442	Hydraulic Cylinder	1
3	D-5244	Spiral Pin - 1/4 x 2.....	1
4	N13962	Washer - 2-1/2 OD x 1-9/32 ID x 1/4	1
5	N28998	Pin - 1 1/4 Dia x 4 3/4 UL.....	1
6	S39543	Pin - 1 1/4 X 3 5/8 UL.....	1
7	S42725	Hinge Pin - 1 1/2 Dia x 6 3/8 UL	2
8	S49845	Inner Wing - 25 ft	1
	S49804	Inner Wing - 31 ft	1
9	S62360	Wing Truss - Rear - 25 ft.....	1
	S62358	Wing Truss - Rear - 31 ft.....	1
10	S44979	Wing Truss - Front - 25 ft.....	1
	S44922	Wing Truss - Front - 31 ft.....	1
11	S44981	Support Beam	1
12	T-5245	Spiral Pin - 3/8 x 2 1/2.....	2
13	W-506	Hex Bolt - 5/8 x 5 Lg.....	8
14	W-517	Hex Nut - 5/8.....	28
15	W-526	Lockwasher - 5/8.....	28
16	W-4181	Cotter Pin - 1/4 x 2 Lg	1

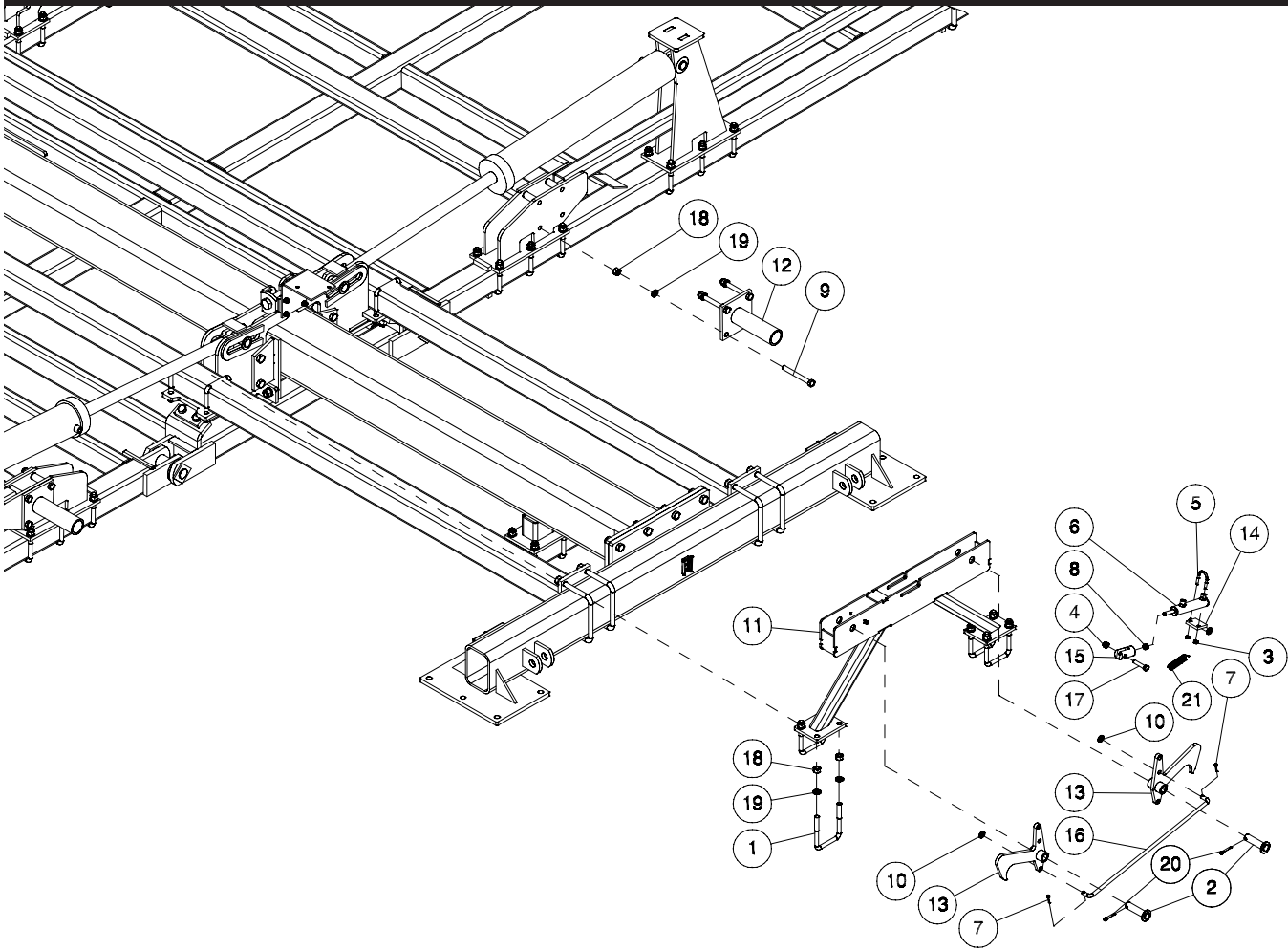
Frames & Hitching **Wing Frame Depth Beams - 25 & 31 Ft**



Wing Frame Depth Beams - 25 & 31 Ft

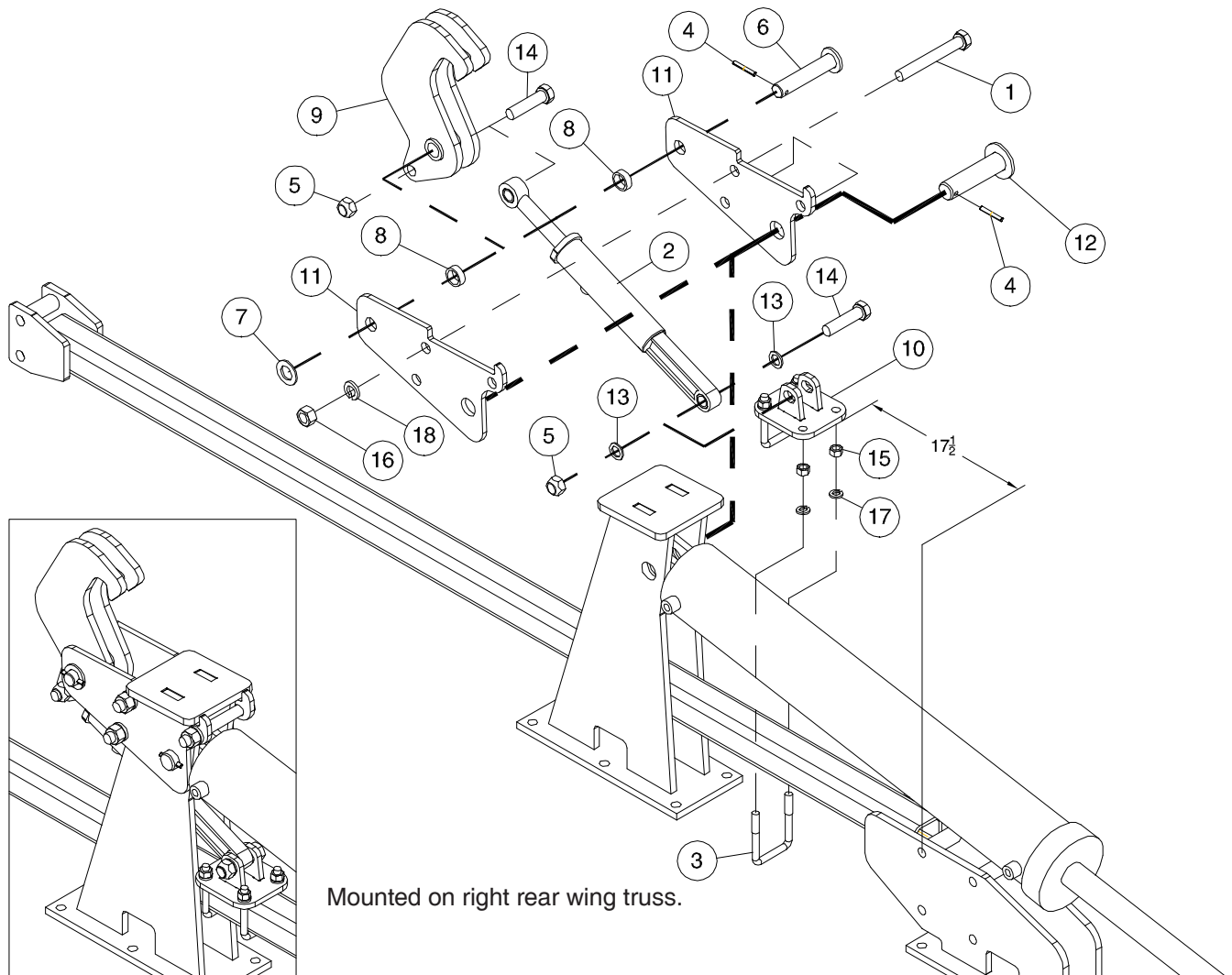
Item	Part No.	Description	Qty
1	C-695	Hex Bolt - 3/4 x 2 Lg.....	4
2	C-3919	Hex Bolt - 3/4 x 5 1/2 Lg.....	4
3	C-5561	U-Bolt - 3/4 x 4 x 5-9/16.....	4
4	C18657	Fork - Outer Castor	1
5	C18662	Wear Plate.....	1
6	C18782	Cap - 3 Dia.....	1
7	P61D20	Hex Nut - 1 1/4.....	2
8	S-752	Grease Zerk - 1/4.....	2
9	S42862	Extension Stub - 14 1/4 Lg - 31 ft.....	1
10	S42918	Left Wing Depth Tube - 31 ft- Prior to Sept. 2012.....	1
	S51009	Left Wing Depth Tube - 31 ft	1
	S42919	Right Wing Depth Tube - 31 ft - Prior to Sept. 2012	1
	S51011	Right Wing Depth Tube - 31 ft.....	1
10A	S42982	Wing Depth Tube (Left and Right for 25ft) 1 per wing - Prior to Sept. 2012	2
	S51015	Wing Depth Tube (Left and Right for 25ft) 1 per wing.....	2
11	S47084	Rear Axle - Wing - 25 3/8 Lg - Prior to Sept. 2012.....	1
	S51025	Rear Axle - Wing - 27 3/8 Lg	1
12	S44983	Outer Wing Lift Pivot - Lg	1
13	S44984	Spacer Tube	1
14	S44985	Tie Rod - 97 Lg - 25 ft	1
	S44991	Tie Rod - 115 1/2 Lg - 31 ft.....	1
15	S44993	Extension Stub Rear - 12 inch spacing	1
16	W-497	Hex Bolt - 5/8 x 1-1/2 Lg.....	1
17	W-499	Hex Bolt - 5/8 x 2 Lg.....	4
18	W-509	Hex Bolt - 3/4 x 2-1/2 Lg	6
19	W-517	Hex Nut - 5/8.....	4
20	W-518	Hex Nut - 3/4.....	18
21	W-526	Lockwasher - 5/8.....	5
22	W-527	Lockwasher - 3/4.....	18
23	W-535	Cotter Pin - 1/4 x 1 1/2 Lg	1
24	W-558	Pin - 1 Dia x 2-1/4 UL.....	1

Frames & Hitching Wing Lift Lock - 25 & 31 Ft - Prior to 2017



Item	Part No.	Description	Qty
1	C-219	U-Bolt - 5/8 x 4 x 5-9/16	4
2	C-1429	Pin - 1 x 3-3/8 UL	2
3	C32925	Center Locknut - 5/16.....	2
4	F-3405	Locknut - 1/2 Unitorque.....	2
5	N42091	U-Bolt - 5/16 x 1-11/16 x 2-1/4	1
6	N47712	Hyd Cylinder Assembly	1
7	S-531	Cotter Pin - 3/16 x 1 Lg	2
8	S-1292	Hex Jam Nut - 1/2	1
9	S-1344	Hex Bolt - 5/8 x 5 1/2 Lg.....	8
10	S-1925	Flat Washer - 1/2.....	2
11	S47533	25/31 Transport Rest/Lock.....	1
12	S47534	Transport Stop	2
13	S47537	Hook.....	2
14	S47540	Cylinder Pivot.....	1
15	S47542	Clevis End.....	1
16	S47543	Rod - 1/2 Dia	1
17	W-489	Hex Bolt - 1/2 x 2 1/4 Lg.....	1
18	W-517	Hex Nut - 5/8.....	16
19	W-526	Lockwasher - 5/8.....	16
20	W-535	Cotter Pin - 1/4 x 1 1/2 Lg	2
21	W-1663	Adjusting Spring.....	1

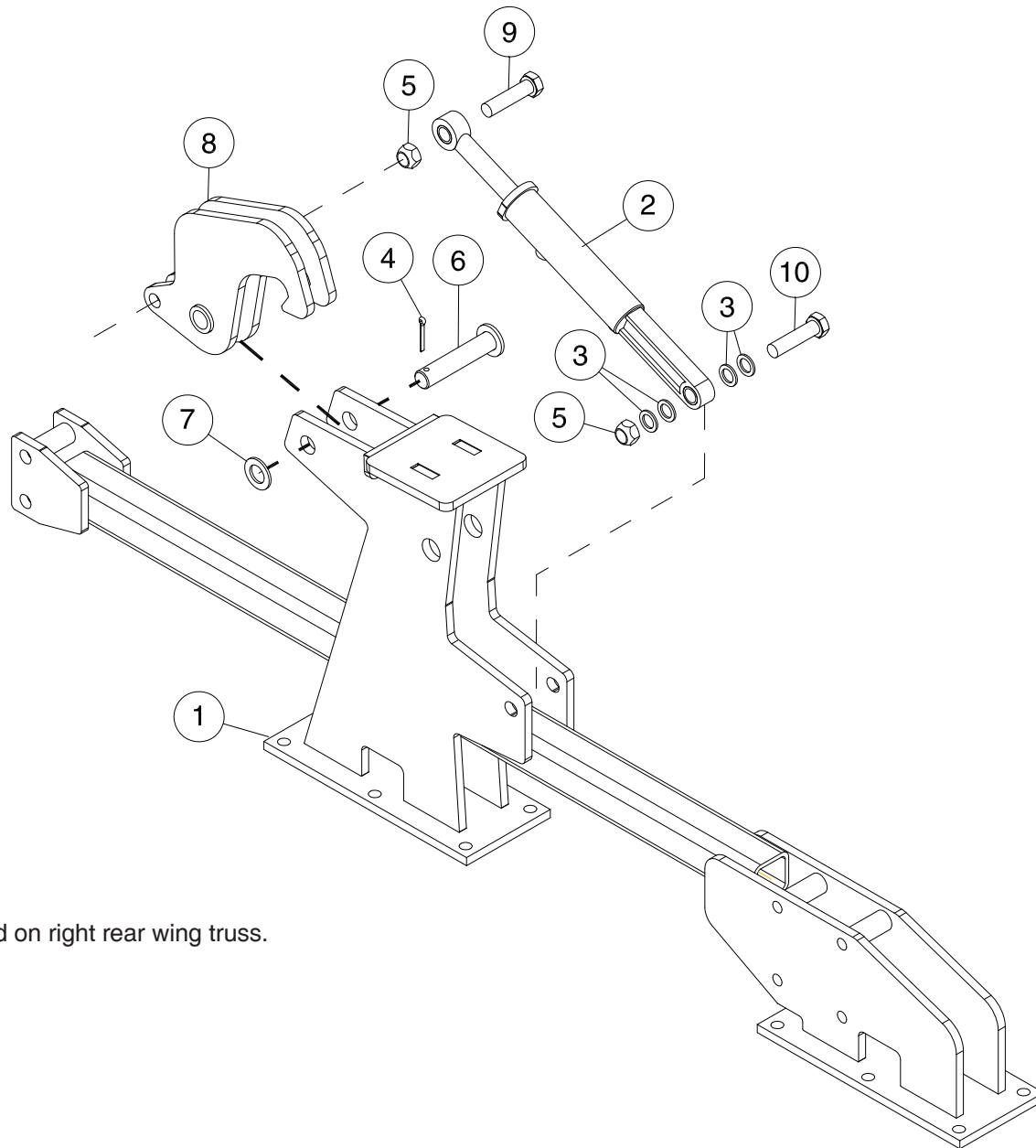
Frames & Hitching Wing Lift Lock - 25 & 31 Ft - 2017



Item	Part No.	Description	Qty
1	C-3919	Hex Bolt - 3/4 x 5 1/2 Lg.....	3
2	C51153	Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke	1
3	D-4825	U-Bolt - 1/2 x 2-1/2 x 3-3/4.....	2
4	D-5244	Spiral Pin - 1/4 x 2 Lg	2
5	D-5273	Locknut - 3/4 Unitorque.....	2
6	F-1713	Pin - 1 Dia x 4-3/8 UL.....	1
7	H18268	Washer - 1 1/32 ID x 1 3/4 OD x 10 Ga	1
8	N16610	Spacer - 1.049 ID x 1.315 OD x 7/16 Lg	2
9	N60885	Hook.....	1
10	N62355	Mount Bracket.....	1
11	N62356	Pivot Plate.....	2
12	S39545	Pin - 1 1/4 x 4 5/16 UL	1
13	S39559	Washer - 25/32 ID x 1 3/16 OD x 12 Ga.....	2
14	W-63	Hex Bolt - 3/4 x 3 Lg.....	2
15	W-516	Hex Nut - 1/2	4
16	W-518	Hex Nut - 3/4	3
17	W-525	Lockwasher - 1/2.....	4
18	W-527	Lockwasher - 3/4.....	3
	S57774	Transport Lock - Field Kit (Includes above items plus required Hydraulic components to convert Pre 2017 units.	

Frames & Hitching

Wing Lift Lock - 25 & 31 Ft - 2018 to present



Mounted on right rear wing truss.

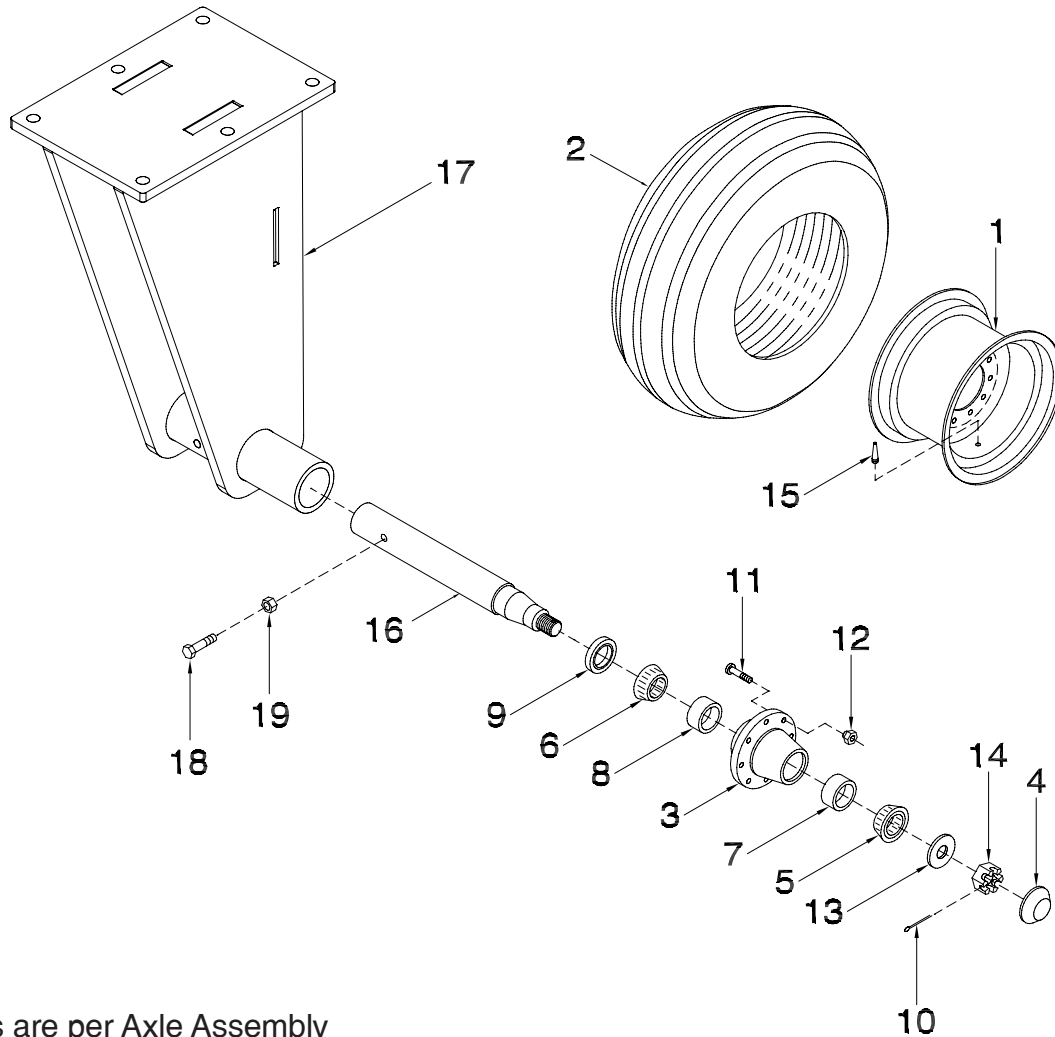
Item	Part No.	Description	Qty
1	S62360	Wing Truss - Rear - 25 ft (Shown).....	1
	S62358	Wing Truss - Rear - 31 ft	
2	C51153	Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke	1
3	S39559	Washer - 25/32 ID x 1 3/16 OD x 12 Ga.....	6
4	W-4181	Cotter Pin - 1/4 x 2 Lg	2
5	D-5273	Locknut - 3/4 Unitorque.....	2
6	W-1628	Pin - 1 Dia x 3 3/4 UL.....	1
7	H18268	Washer - 1 1/32 ID x 1 3/4 OD x 10 Ga	1
8	N60885	Hook.....	1
9	W-63	Hex Bolt - 3/4 x 3 Lg.....	1
10	S-1175	Hex Bolt - 3/4 x 4 1/2 Lg.....	1

Section 3: Wheels

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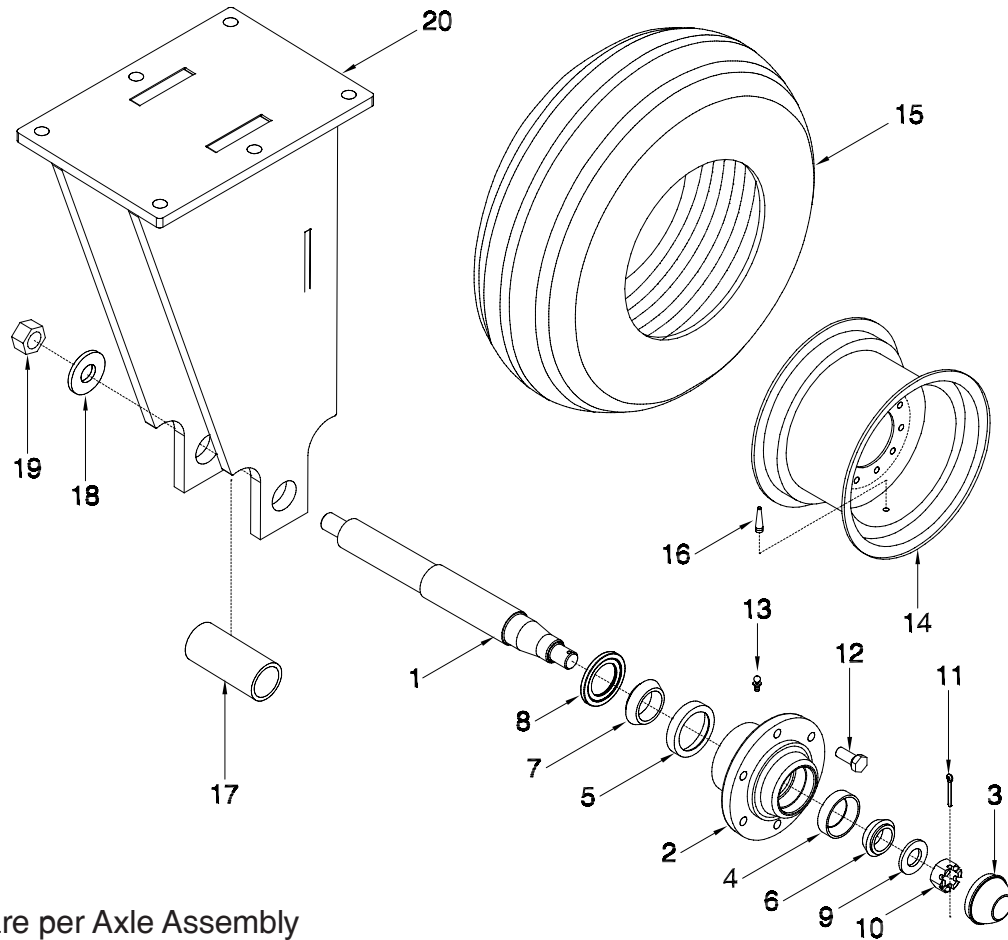
Wheels Main Rear Axle - 25 & 31 Ft



Quantities are per Axle Assembly

Item	Part No.	Description	Qty
1	C17355	Rim - 15 x 10 - 8 Bolt	1
2	C26840	Tire - 12.5L x 15FI - Load Range F	1
3	N19173	Hub (Includes Items 7, 8 & 11)	1
4	N19171	Dust Cap	1
5	N19170	Outer Wheel Bearing - #LM5013496	1
6	N19169	Inner Wheel Bearing - #387AS	1
7	N19168	Outer Bearing Cup - #LM501310	1
8	N19167	Inner Bearing Cup - #382A	1
9	N19172	Seal - 2 1/2.....	1
10	D-5239	Cotter Pin - 1/4 x 2 1/4	1
11	N19727	Wheel Stud - 5/8 x 18 UNF x 2 1/2	8
12	N19586	Tapered Wheel Nut - 5/8 - 18 UNF	8
13	N13962	Flatwasher - 2 1/2 OD X 1 9/32 ID X 1/4	1
14	N19484	Castle Nut - 1 1/4	1
15	C17348	Valve Stem - TR-416.....	1
16	S32556	Spindle - 2 1/2 Dia	1
17	S44962	Rear Axle Bracket - Left	1
17A	S44963	Rear Axle Bracket - Right (Not Shown)	1
18	W-495	Hex Bolt - 1/2 x 4 Lg	1
19	F-3405	Locknut - 1/2 Unitorque	1

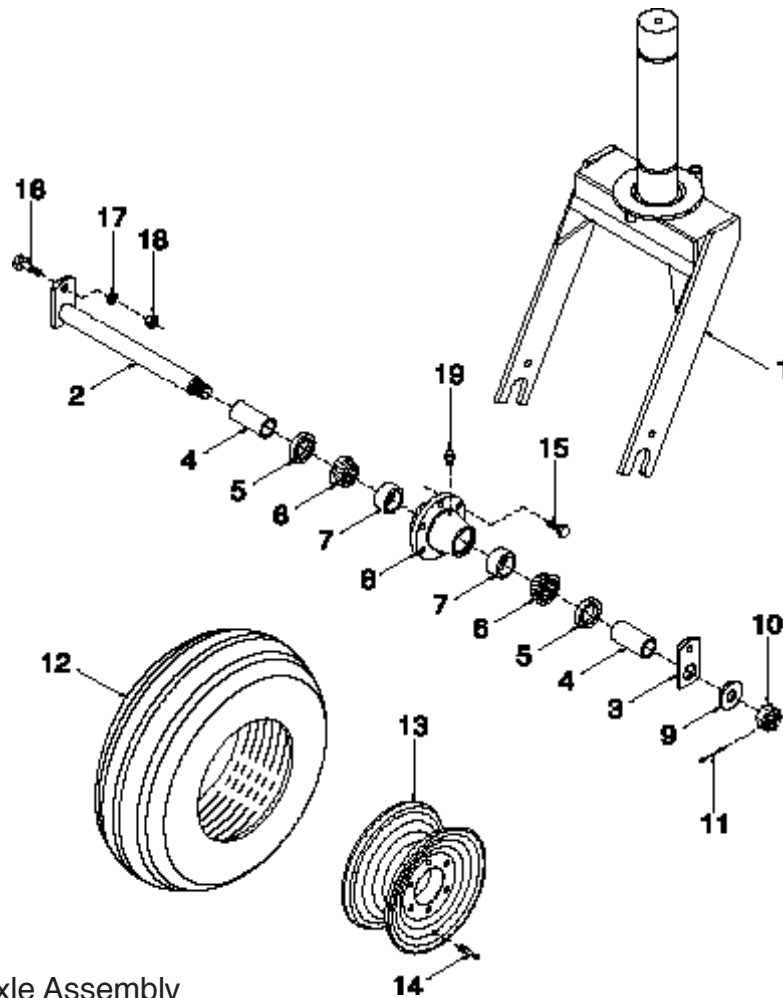
Wheels Wing Rear Axle - 25 & 31 Ft



Quantities are per Axle Assembly

Item	Part No.	Description	Qty
1	N33998	Spindle - 2 Dia	1
2	C-1463	Heavy Duty Hub - 6 Bolt (Includes Items 4, 5 & 13)	1
3	C-1522	Dust Cap	1
4	W-1537	Outer Bearing Cup - #LM48510	1
5	W-1538	Inner Bearing Cup - #LM603011	1
6	W-1474	Outer Wheel Bearing - #LM48548	1
7	W-1475	Inner Wheel Bearing - #LM603049	1
8	C-1521	Dust Seal - 2	1
9	C-3258	Flatwasher - 2 OD x 1 1/16 ID x 3/16	1
10	S-1311	Slotted Nut - 1 SAE	1
11	W-1416	Cotter Pin - 3/16 x 1 1/2 Lg	1
12	W-1383	Wheel Stud Bolt - 9/16 x 1 11/16 Lg	6
13	S-752	Grease Zerk - 1/4 NPT Straight	1
14	C16611	Rim - 15 x 10 - 6 Bolt.....	1
15	C24562	Tire - 12.5L x 15SL - 12 Ply rating - 25 ft, 31 ft Models	1
16	C17348	Valve Stem - TR-416 - 25 ft, 31 ft Models	1
17	S42986	Spacer - 1.812 ID x 2.25 OD x 5 Lg	1
18	C12375	Flatwasher - 1 1/6 ID x 2 1/2 OD x 1/4	1
19	D-5274	Locknut - 1	1
20	S47084	Rear Axle Wing Depth Beams.....	1

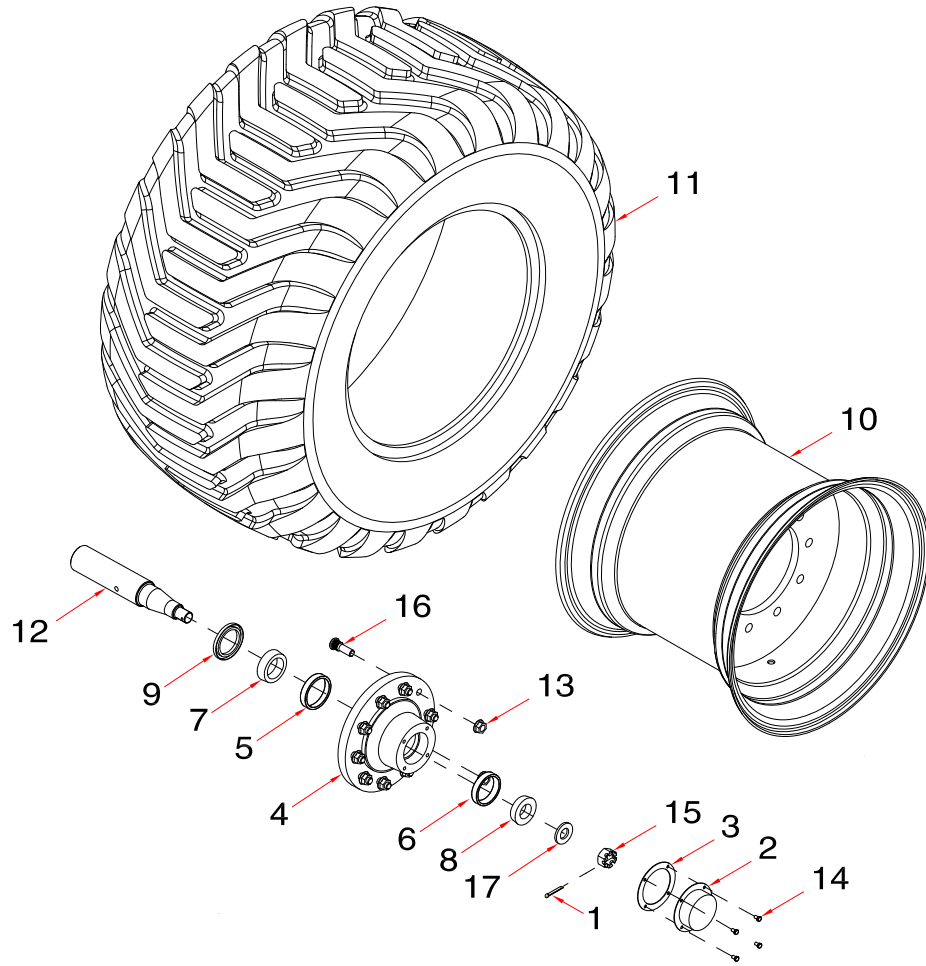
Wheels Wing Gauge - Single Axle



Quantities are per Axle Assembly

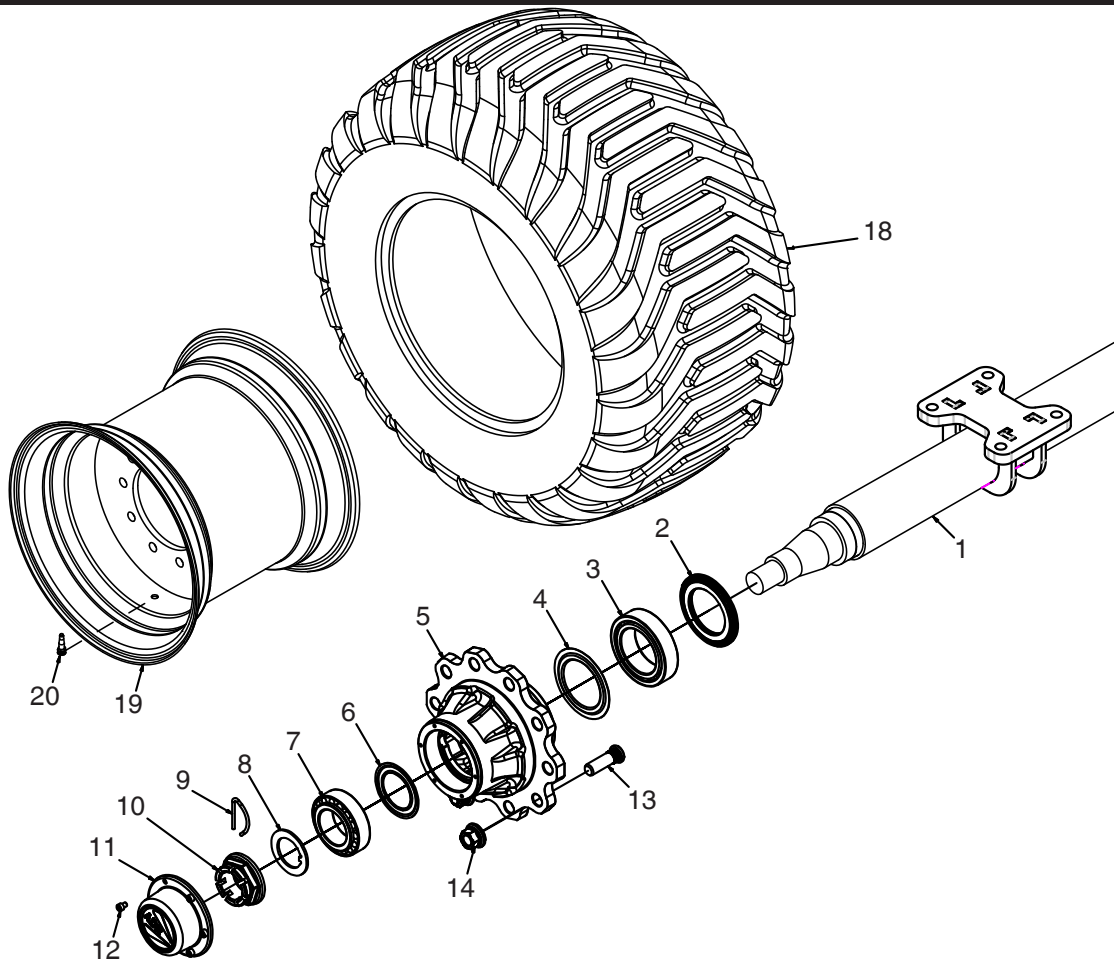
Item	Part No.	Description	Qty
1	C18657	Castor Fork - 3"	1
2	N19164	Spindle	1
3	D-4947	Plate	1
4	N19165	Spacer	2
5	D-5402	Hub Seal	2
6	W-1474	Bearing Cone - #LM48548	2
7	W-1537	Bearing Cup - #LM48510	2
8	D-4837	Hub - 6 Bolt (Includes Items 7 & 19)	1
9	D-5498	Flatwasher - 1	1
10	S-1311	Slotted Nut - 1 UNF	1
11	D-5238	Cotter Pin - 3/16 x 1 3/4	1
12	C24562	Tire - 12.5L x 15SL - 12 Ply rating - 25 ft, 31 ft Model	1
13	C16611	Rim - 15 x 10 - 6 Bolt	1
14	C17348	Valve Stem - TR-416	1
15	W-1383	Wheel Stud Bolt - 9/16 x 1 11/16	6
16	W-498	Hex Bolt - 5/8 x 1 3/4	2
17	W-526	Lockwasher - 5/8	2
18	W-517	Hex Nut - 5/8	2
19	S-752	Grease Zerk - 1/4 NPT Straight	1

Wheels Cart Axle - Prior to 2019



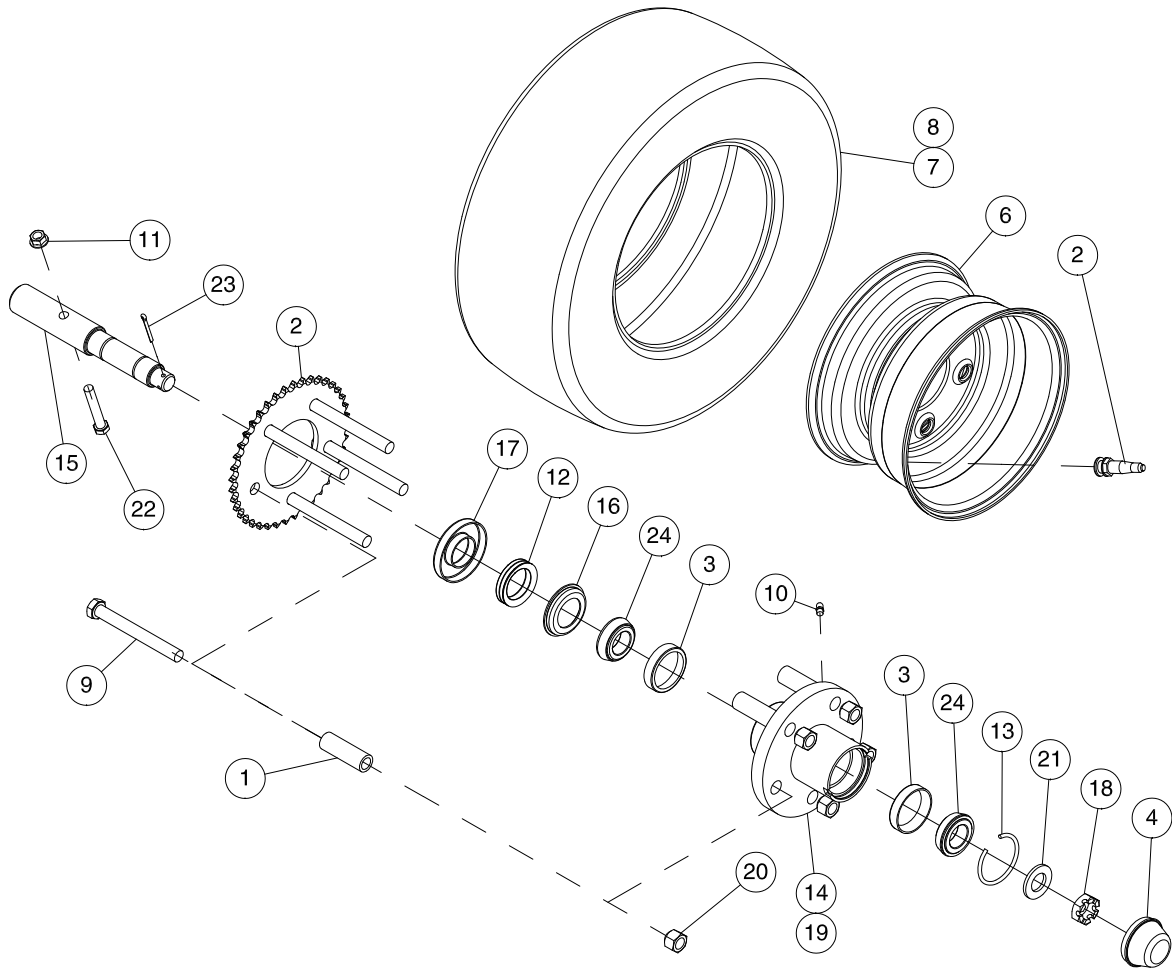
Item	Part No.	Description	Qty
1	W-4181	Cotter Pin - 1/4 x 2	1
2	N13957	Dust Cap	1
3	N13959	Gasket - #SE-49	1
4	N13950	Non-Drive Hub - 10 Bolt (Includes Items 5, 6 and 16).....	1
	N25479	Drive Hub - 10 Bolt (Includes Items 5, 6 and 16)	1
5	N13951	Bearing Cup - #39520.....	1
6	N13952	Bearing Cup - #453A	1
7	N13954	Bearing Cone - Outer - #39585.....	1
8	N13955	Bearing Cone - Outer - #460.....	1
9	N13956	Seal - CR30087 - #SE-48	1
10	N48469	Rim - 20 x 22.5 - 10 Bolt - Prior to 2019	1
11	N48472	Tire - 600/50-22.5 (16 Ply Rating) - Prior to 2019	1
12	N24775	Spindle - 3 Dia	1
13	N13958	Flange Wheel Nut - 3/4	10
14	D-5247	Hex Bolt - 5/16 x 1/2 Lg.....	4
15	N19484	Hex Slotted Nut - 1 1/4 - 12 UNF	1
16	N13953	Press-In Wheel Stud - 3/4 -16 UNF.....	10
17	N13962	Flatwasher - 1.281ID x 2 1/2 OD x 1/4 Thick.....	1
18	N13968	Valve Stem - TR-618A (Not Shown)	1

Wheels Cart ADR Axle Assembly - 2019 to Present



Item	Part No.	Description	Qty
* Quantities Listed Are For One Machine			
1	K65665	ADR Axle Assembly - 112 Lg (Includes Items 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 & 14)	1
2	K65166	Grease Seal (5441402).....	2
3	K65167	Inside Bearing (59133018)	2
4	K65168	NILOS for Bearing K65167 (5511402).....	2
5	K65169	Hub - H10 (61LZUA002)	2
6	K65170	NILOS Grease Seal (5531092)	2
7	K65171	Outside Bearing (59133114)	2
8	K65172	Lock Washer for M58 (57B5801).....	2
9	K65173	Spring Pin for M58 (58212)	2
10	K65174	Crown Nut - M58 x 1.50 WR80 H38 (57558B1)	2
11	K65175	Cap with Gasket (56112518)	2
12	K65176	Socket Head Screw (96308A0101).....	12
13	K65177	Wheel Stud - M22 x 1.50 L077 (57122B2) GR 10.9	20
14	K65178	Flange Wheel Nut - M22 x 1.5 WR32 - GR 10 (26mm Hight) (57322B3)	20
15	10077	7/8 x 12 - 5 Round U-Bolt - Plain	4
16	10234	7/8 Heavy Duty High Plain Nut	8
17	10041	7/8 Heavy Duty Washer	8
18	K56777	Tire - 600/50-22.5 - 16-Ply - TVS Eurogrip	2
19	S64947	Rim - 20 x 22.5 - 10 Bolt (Includes Item 20).....	2
20	N13968	Valve Stem	2
Note: ADR part numbers included in brackets for Items 2 through 14			

Wheels Ground Drive Axle



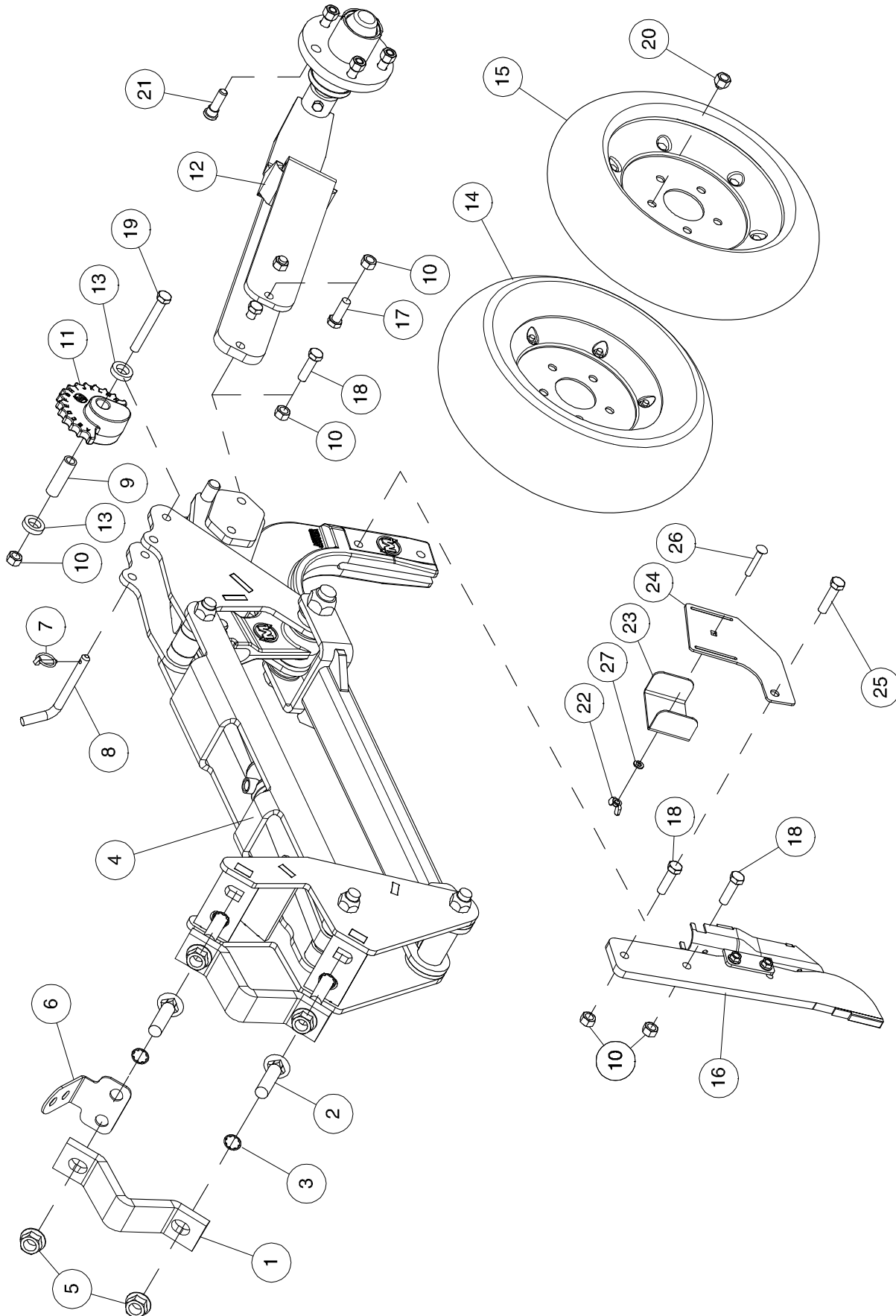
Item	Part No.	Description	Qty
1	H27918	Bushing - 3/4 OD x .510 ID C 2 1/4 Lg.....	5
2	N13968	Valve Stem - TR-618A	1
3	N14009	Bearing Cup - #L44610	2
4	N14011	Dust Cap - DC-11	1
5	N60737	Sprocket - 40A40 -	1
6	N62228	Rim - 8 x 5.75 - 5 Bolt	1
7	N62229	Tire - 16 x 6.5 - 8 NHS - 4 Ply	1
8	N62230	Tire & Rim Assy - (Includes Items 2, 6 & 7)	1
9	N62244	Hex Bolt - 1/2 x 4 1/2 Lg.....	5
10	S-752	Grease Fitting - 1/4 Straight	1
11	S27987	Lock Nut - 3/8 Flange Center Lock	1
12	S48842	V-Seal - #A-966.....	1
13	S48843	Dust Cap Retaining Wire	1
14	S48844	Hub Casting - 1000 Lb - 5 Bolt.....	1
15	S48846	Spindle - 1-1/4 Dia x 8 1/2 Lg.....	1
16	S48847	Seal Counterface - #A-3464.....	1
17	S48848	Seal Retainer - #A-3463.....	1
18	S48849	Slotted Jam Nut - 3/4	1
19	S48850	Packer Hub Assy - 1000 Lb - 5 Bolt (Includes Items 3, 4 ,10, 12, 13, 14, 16, 17, 18, 21 & 24)...	1
20	S50246	Tapered Wheel Nut - 1/2 - 20UNF	5
21	W-476	Flat Washer - 3/4.....	1
22	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.....	1
23	W-529	Cotter Pin - 1/8 x 1 Lg	1
24	W-4187	Bearing Cone - #L44643.....	2

Section 4: Opener

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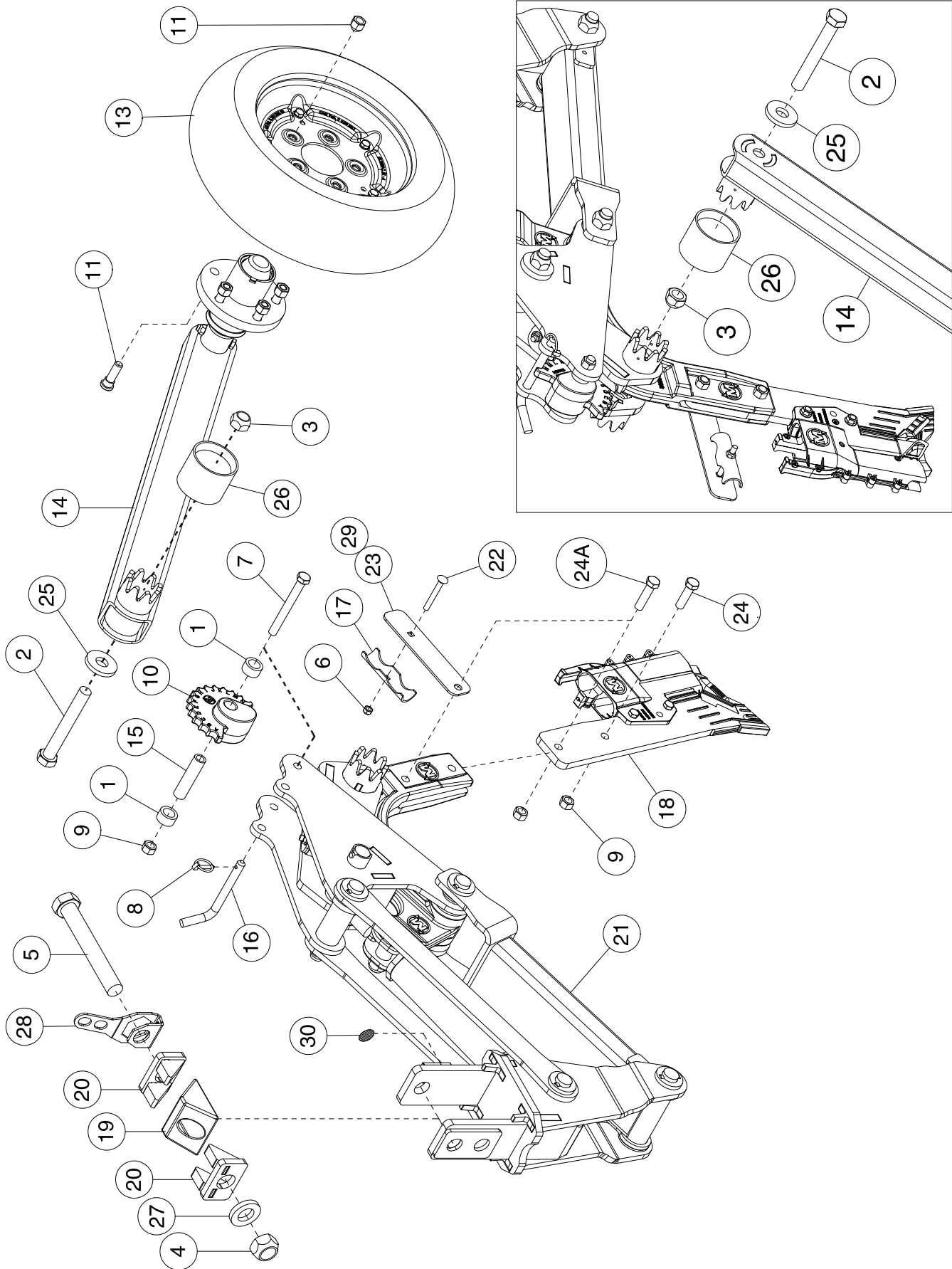
Opener Opener Assembly - Prior to 2020



Opener - Opener Assembly - Prior to 2020

Item	Part No.	Description	Qty
1	C26506	Clamp Strap	2
2	C33957	Carriage Bolt - 3/4 x 3 Lg	4
3	C33958	Retaining Ring	4
4	S59800	Base Assembly - See Next Page	1
5	D12942	Serrated Flange Lock Nut - 3/4	4
6	S47976	Hose Holder	1
7	S42294	Lynch Pin - 3/16 Dia x 1/14 Lg	1
8	S42659	Depth Pin - 1/2 Dia x 3 1/2 UL	1
9	S44402	Bushing - 0.510 ID x 0.750 OD x 2 9/16 Lg.....	1
10	S47110	Center Lock Hex Nut - 1/2	7
11	S49260	Depth Adjustment Cam	1
12	S49500	Packer Arm Assembly	1
13	S49516	Spacer Washer - 25/32 ID x 1 1/4 OD x 5/16 thick.....	2
14	S64195	Otico Tire - 5 1/2	1
15	S64194	Otico Tire - 4 1/2	1
16	S65121	Right Sideband Boot Kit - SHIELD CORE	1
	S65122	Left Sideband Boot Kit - SHIELD CORE	
	S65123	Paired Row Boot Kit - SHIELD CORE	
	*****	Single Shoot Boot Kit - SHIELD CORE	
17	W-486	Hex Bolt - 1/2 x 1 1/2 Lg.....	2
18	W-487	Hex Bolt - 1/2 x 1 3/4 Lg.....	4
19	W-495	Hex Bolt - 1/2 x 4 Lg.....	1
20	S50246	Tapered Wheel Nut - 1/2-20 UNF	5
21	S50247	Press-In Wheel Stud - 1/2-20 UNF x 1 3/4 Lg	5
22	N42098	Locknut - 5/16 (2018 to present)	1
	N31016	Wing Nut - 5/16 (Prior to 2018).....	1
23	S51330	Hose Holder Clamp.....	1
24	S51463	Hose Holder	1
25	S51464	Hex Bolt - 1/2 x 2 Lg Gr. 8.....	1
26	S51466	Carriage Bolt - 5/16 x 2 Lg	1
27	W-522	Lockwasher - 5/16.....	1
	S46595	Optional Secondary Hose Holder Kit - (Includes Items 22 - 27)	

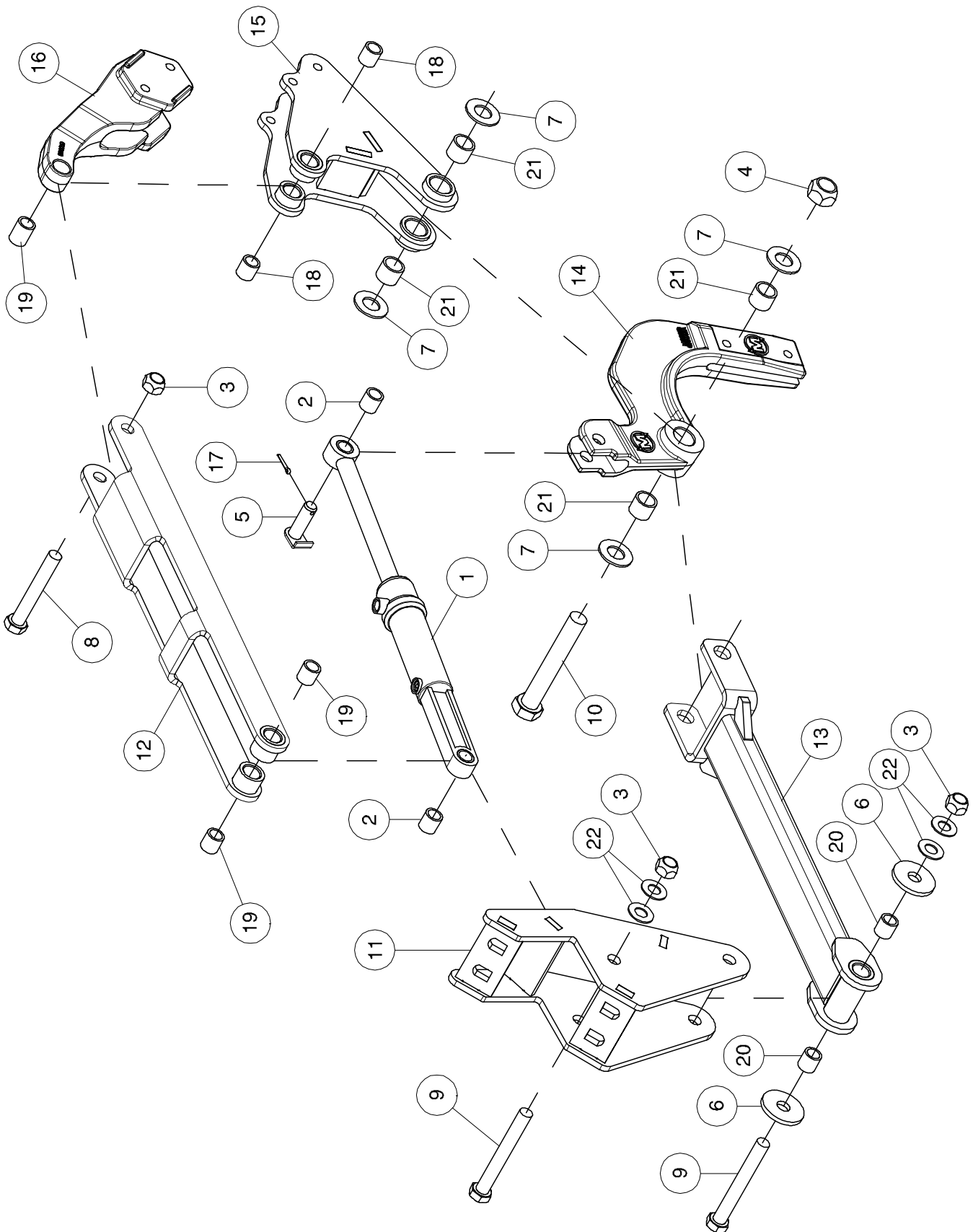
Opener Opener Assembly - 2020 to present



Opener - Opener Assembly - 2020 to present

Item	Part No.	Description	Qty
1	S65000	Cam Brace Bushing - 0.765 ID x 1-1/8 OD x 0.58 Lg.....	2
2	D-5558	Hex Bolt - 3/4 x 6 Lg.....	1
3	D-5273	Lock Nut - 3/4 Unitorque	7
4	D-5274	Lock Nut - 1 Unitorque	1
5	S42952	Hex Bolt - 1 x 6 5/8 Lg.....	1
6	D-5272	Lock Nut - 5/16 Unitorque	1
7	S66403	Hex Bolt - 1/2 x 4 1/2 Lg - GR.8.....	1
8	S42294	Lynch Pin - 3/16 Dia x 1-3/8 Lg	1
9	S47110	Hex Nut - 1/2 Center Lock.....	3
10	S49260	Depth Cam - Cast	1
11	S50246	Tapered Wheel Nut - 1/2-20UNF.....	5
12	S50247	Press-In Wheel Stud - 1/2 - 20UNF.....	5
13	S64194	Otico Tire - 4 1/2.....	1
	S64195	Otico Tire - 5 1/2.....	
14	S64673	Packer Arm.....	1
15	S64698	Bushing - 0.510 ID x 0.750 OD x 3.094 Lg	1
16	S65061	Depth Pin - 1/2 Dia.....	1
17	S65070	Hose Holder	1
18	S65121	Right Sideband Boot Kit - SHIELD CORE	1
	S65122	Left Sideband Boot Kit - SHIELD CORE	
	S65123	Paired Row Boot Kit - SHIELD CORE	
	*****	Single Shoot Boot Kit - SHIELD CORE	
19	S66337	Cast Center Wedge - 3 wide	1
20	S69115	Steel Outer Wedge - 2 3/4 wide	2
21	S71912	Row Unit - Right (Includes items 1,2,3,7,8,9,10,11,12,14,15,16, 25 and 26) Shown.....	1
	S71913	Row Unit - Left (Includes items 1,2,3,7,8,9,10,11,12,14,15,16, 25 and 26)	
		Note: The only difference between the Left and Right Row Unit is the orientation of the packer arm assembly.	
22	S51466	Carriage Bolt - 5/16 x 2 Lg	1
23	S65851	Hose Holder Bracket - Cast Shankholder	1
24	W-487	Hex Bolt - 1/2 x 1 3/4 Lg.....	2
24A	S51464	Hex Bolt - 1/2 x 2 Lg - GR 8 (Hose Holder Replacement Bolt)	1
25	S65821	Washer - 2 1/4 OD x 25/32 ID	1
26	S69349	Sleeve Bushing.....	1
27	F-4490	Flatwasher - 1 1/32 ID x 1 7/8 OD x 1/4 Thick	1
28	S72070	Hose Holder - Opener - Low Profile	1
29	S65852	Hose Holder Kit - Cast Shankholder - Contains Items 6, 9, 17, 22, 23 & 24A	1
30	S66171	Openers Number Decal - 1 per machine 1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 2 5 8 11 14 17 20 23 26 29 32 35 38 41 44 47 50 53 56 59 62 65 68 71 74 77 80 83 86 89 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90	

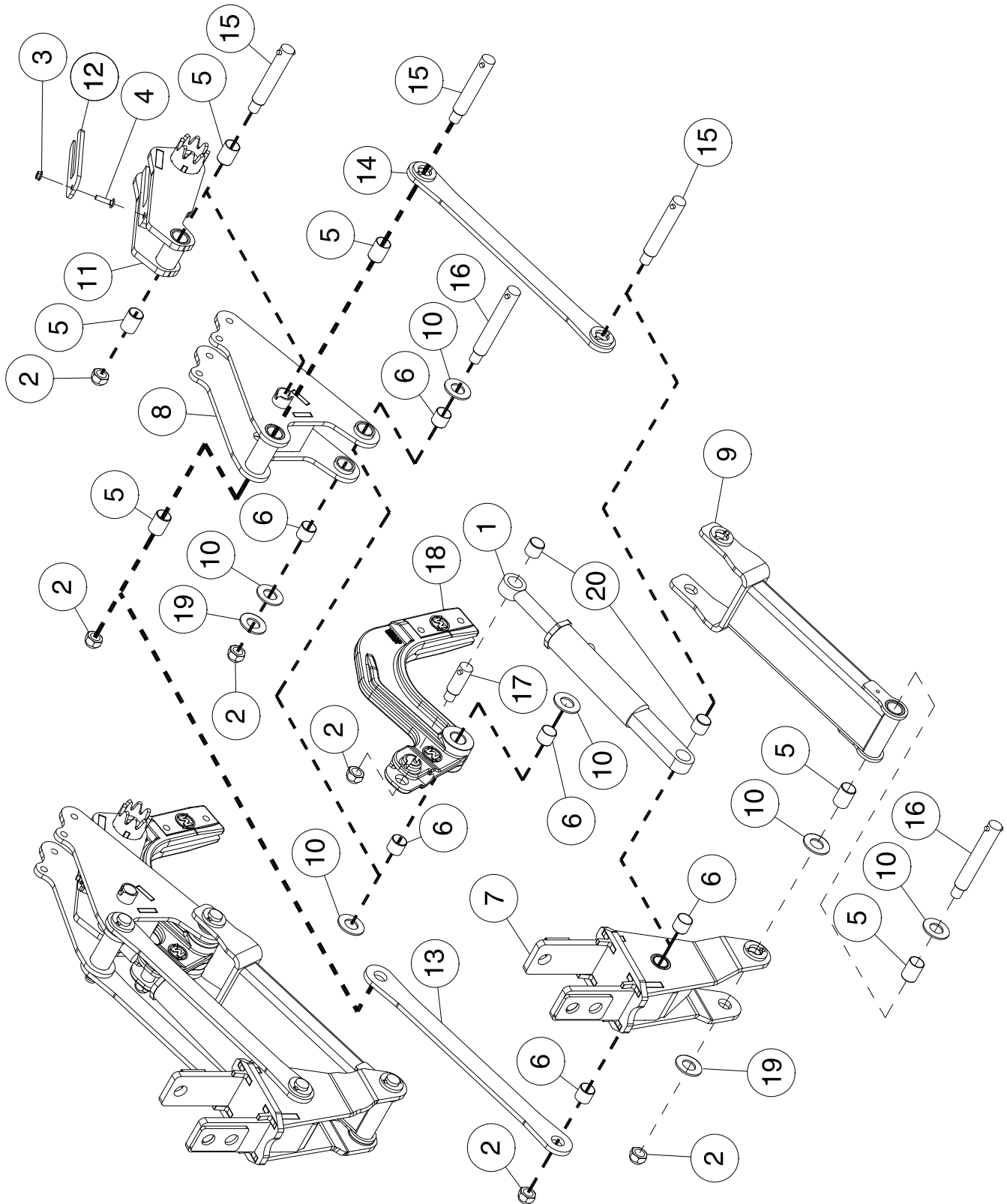
Opener Body Assembly - Prior to 2020



Opener - Body Assembly - Prior to 2020

Item	Part No.	Description	Qty
1	C51033	Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke	1
2	S51494	Bushing - 0.756/0.759 ID x 1.003/1.005 OD x 1.000 Lg	2
3	D-5273	Locknut - 3/4 Unitorque	3
4	D-5274	Locknut - 1 Unitorque	1
5	S58730	Pin Chrome - 3/4 x 1 29/32 UL	1
6	S42674	Washer - 2 1/2 OD x 25/32 ID x 1/4	2
7	S42675	Washer - 1 1/32 ID x 2 OD x 1/8	4
8	S51004	Hex Bolt - 3/4 x 5 1/8 Lg GR-8	1
9	S51006	Hex Bolt - 3/4 x 6 3/8 Lg GR-8	2
10	S42952	Hex Bolt - 1 x 6 5/8 Lg	1
11	S58748	Mounting Bracket	1
12	S59801	Top Link (Includes item 19)	1
13	S59802	Lower Link (Includes item 20)	1
14	S59804	Shankholder - Cast (Includes item 21)	1
15	S59803	Opener Body (Includes item 18 & 21)	1
16	S59807	Packer Arm Pivot Bracket - Cast (Includes item 19)	1
17	W-530	Cotter Pin - 5/32 x 1 Lg	1
18	S58744	Q2 Bushing - 3/4 ID x 1 OD x 1 Lg Nominal size	2
19	S58746	Q2 Bushing - 3/4 ID x 1 OD x 1.313 Lg Nominal size	3
20	S58747	Q2 Bushing - 3/4 ID x 1 OD x 1.875 Lg Nominal size	2
21	S59806	Q2 Bushing - 1 ID x 1 1/4 OD x 1 Lg Nominal size	4
22	W-476	Flatwasher - 13/16 ID x 1 1/2 OD x 11 Ga	4
	S59800	Base Assembly (Includes all items above)	1
	S62065	Overhaul Kit (Includes items 2, 3, 4, 5, 6, 7, 8, 9, 10, 17, 18, 19, 20, 21 and 22)	

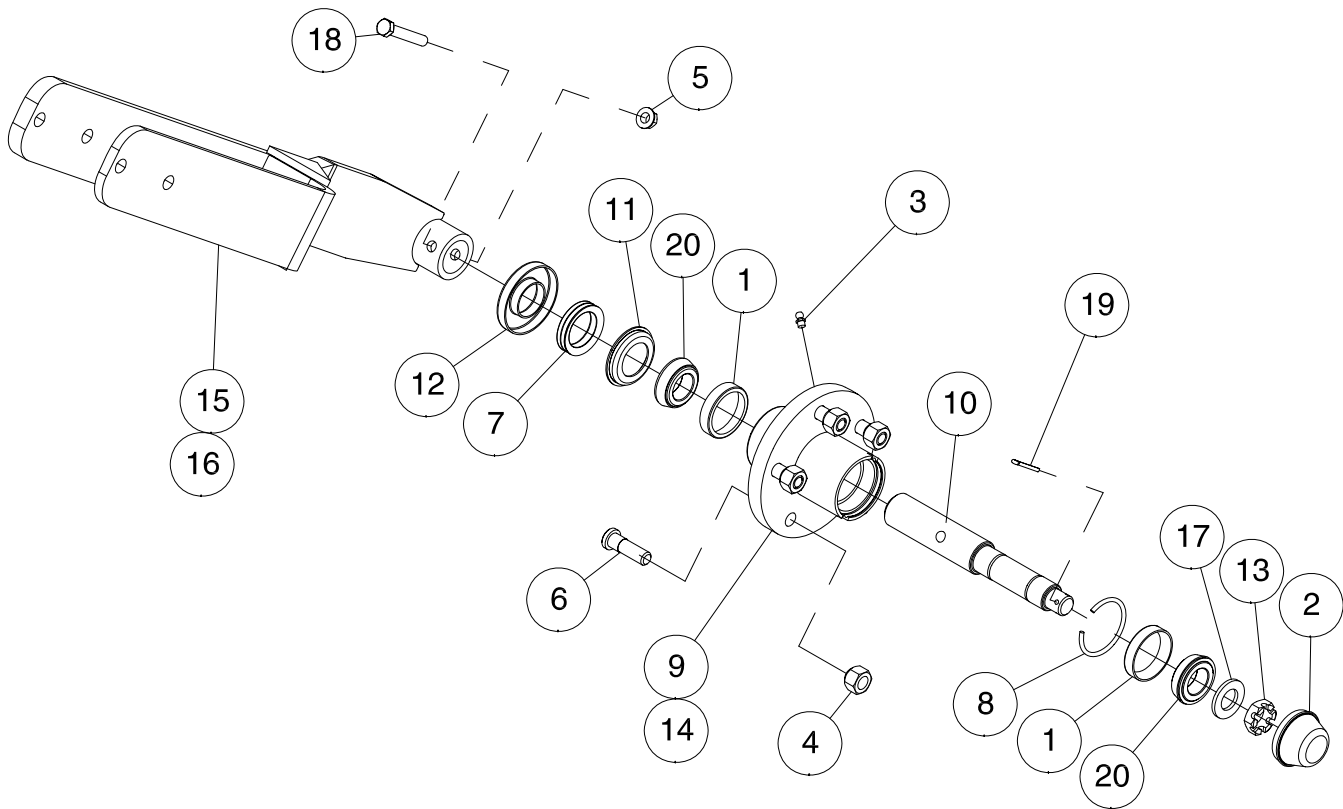
Opener Body Assembly - 2020 to present



Opener - Body Assembly - 2020 to present

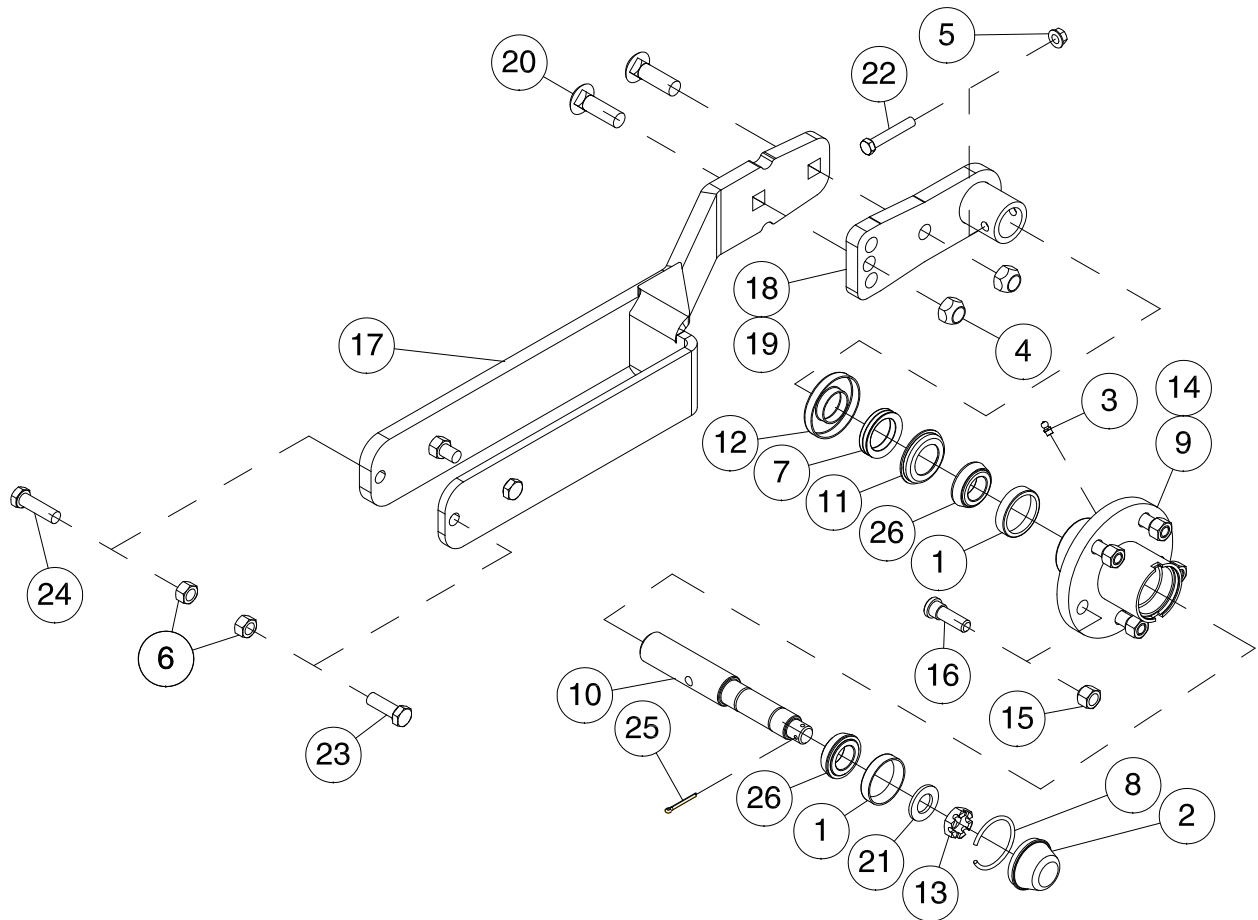
Item	Part No.	Description	Qty
1	C64546	Cylinder - 1 3/4 Bore x 4 Stroke (Includes Item 20)	1
2	D-5273	Lock Nut - 3/4 Unitorque	6
3	D-5278	Lock Nut - 5/16 Flanged.....	1
4	N31012	Carriage Bolt - 5/16 x 1 1/4 Lg	1
5	S62986	Q2 Bushing - 1 ID x 1 1/8 OD x 1 1/2 Lg Nominal size.....	6
6	S62987	Q2 Bushing - 1 ID x 1 1/8 OD x 1 Lg Nominal size.....	6
7	S71902	Mounting Bracket - (Includes Item 6 Qty of 2).....	1
8	S64119	Opener Body - (Includes Item 5 Qty of 2 and Item 6 Qty 2).....	1
9	S64172	Bottom Link	1
10	S64580	Washer - 1 1/32 ID x 2 OD x 1/8 Thick.....	6
11	S64672	Packer Arm Mount.....	1
12	S66251	Shim - Depth Adjustment - 1/4 Thick.....	1
13	S64759	Strap - Top Link.....	1
14	S65009	Top Link.....	1
15	S65037	Pin - 1 Dia x 4 21/32 UL (Includes W21776 Roll Pin).....	3
16	S65038	Pin - 1 Dia x 5 9/16 UL (Includes W21776 Roll Pin).....	2
17	S65039	Pin - 1 Dia x 1 29/32 UL (Includes W21776 Roll Pin).....	1
18	S65048	Cast Shankholder - (Includes Item 6 Qty of 2).....	1
19	D-5498	Washer - 1.062 ID x 2 OD x 11 GA.....	2
20	S62987	Q2 Bushing - 1 ID x 1 1/8 OD x 1 Lg Nominal size.....	2

Opener Packer Arm Assembly - Prior to 2020



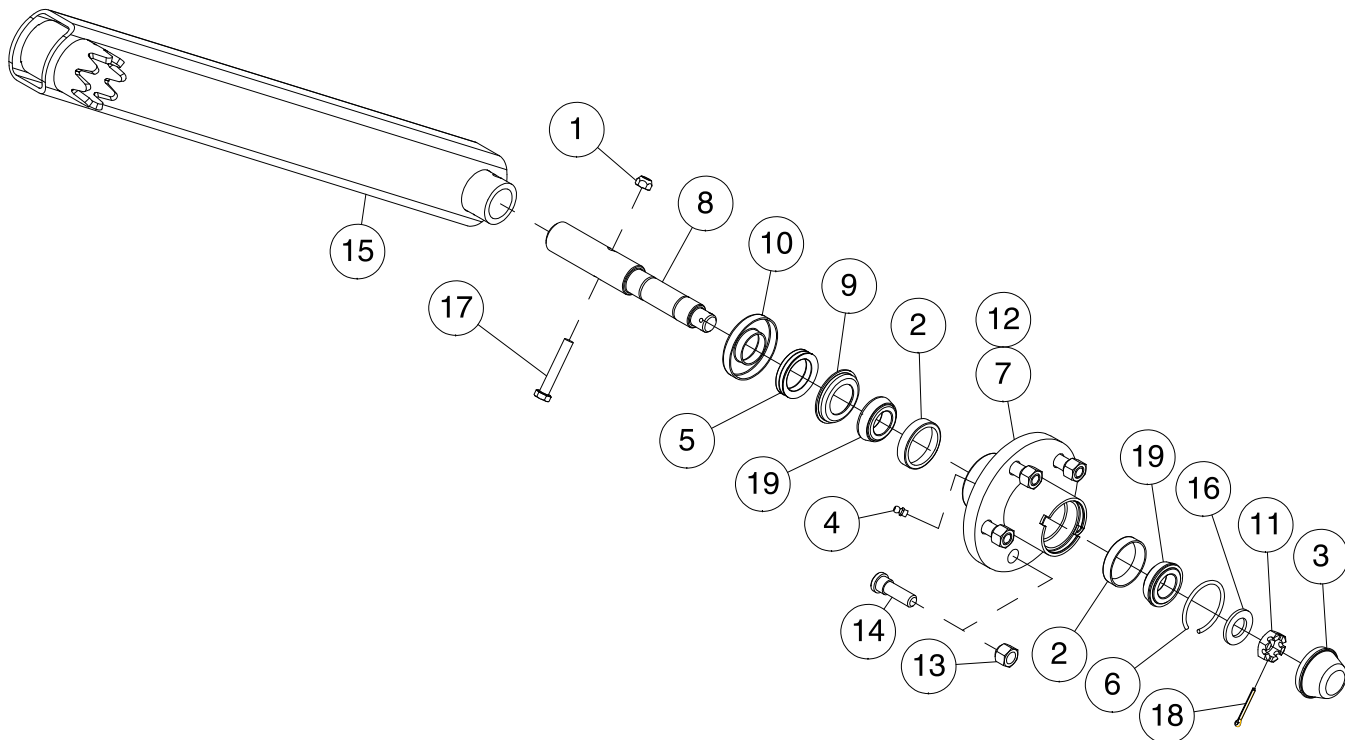
Item	Part No.	Description	Qty
1	N14009	Bearing Cup	2
2	N14011	Dust Cap	1
3	S-752	Grease Zerk - 1/4	1
4	S50246	Tapered Wheel Nut - 1/2-20 UNF	5
5	S27987	Lock Nut - 3/8 Center Lock Flange	1
6	S50247	Wheel Stud - Press In - 1/2-20 UNF	5
7	S48842	V-Seal - 1 1/4 Shaft	1
8	S48843	Dust Cap Retaining Wire	1
9	S50761	Hub Casting - 1000 Lb - 5 Bolt (Includes Items 1 and 6)	1
10	S48846	Spindle - 1 1/4 Dia	1
11	S48847	Seal Counterface	1
12	S48848	Seal Retainer	1
13	S48849	Slotted Jam Nut - 3/4	1
14	S48850	Packer Hub Assembly (Includes Items 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 17, 19, 20)	1
15	S49299	Packer Arm	1
16	S49500	Packer Arm Sub-Assembly (Includes all Items Listed)	1
17	W-476	Flat Washer - 3/4	1
18	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.	1
19	W-529	Cotter Pin - 1/8 x 1 Lg	1
20	W-4187	Bearing Cone	2

Opener Adjustable Packer Arm Assembly - Prior to 2020



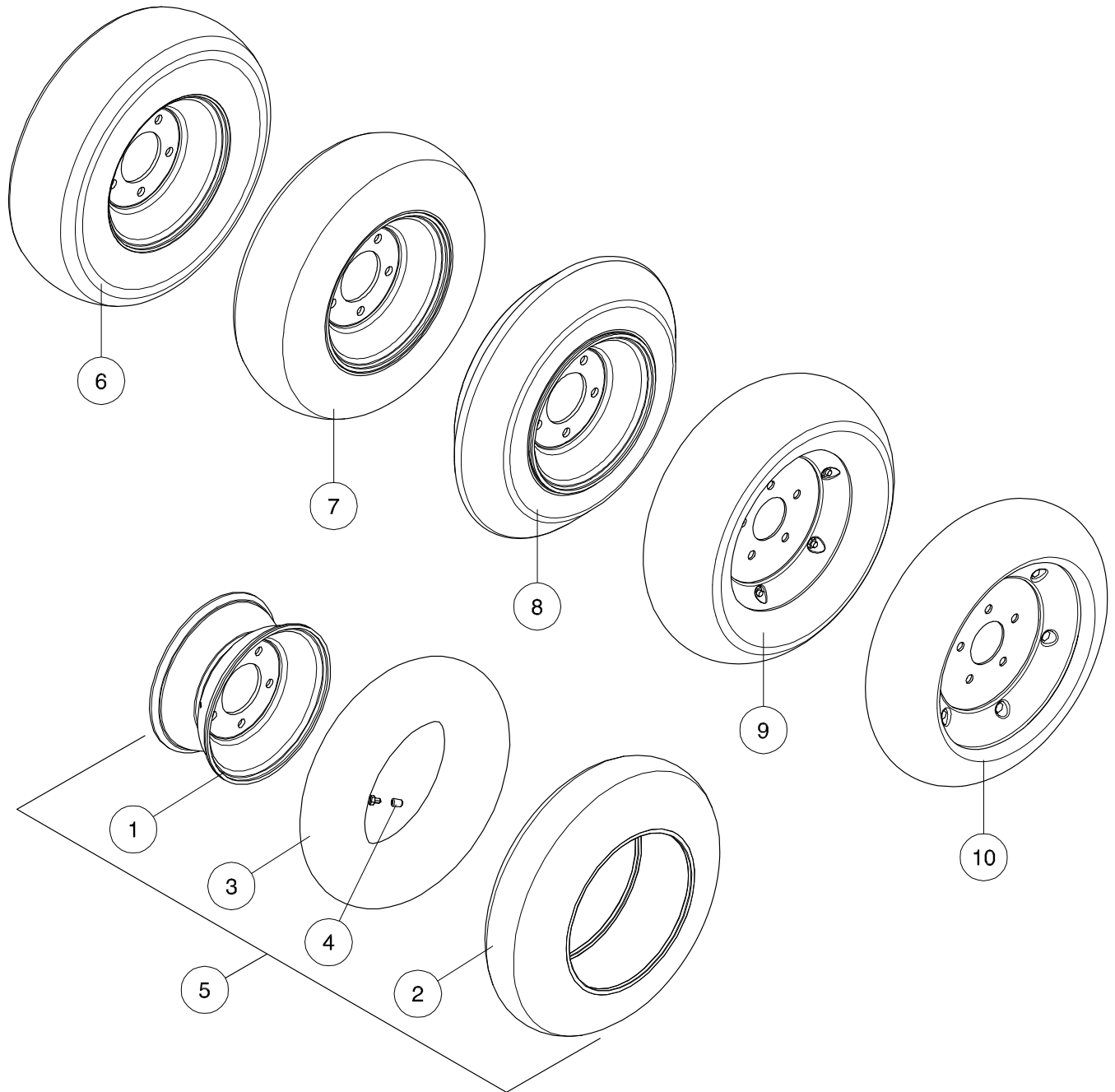
Item	Part No.	Description	Qty
1	N14009	Bearing Cup	2
2	N14011	Dust Cap	1
3	S-752	Grease Fitting - 1/4	1
4	S-1197	Locknut - 5/8 Unitorque.....	2
5	S27987	Flange Lock Nut - 3/8 W/Center Lock	1
6	S47110	Hex Nut - 1/2 Center Lock.....	4
7	S48842	V-Seal - 1 1/4 Shaft.....	1
8	S48843	Dust Cap Retaining Wire	1
9	S50761	Hub Casting - 1000 Lb - 5 Bolt (Includes Items 1 and 6)	1
10	S48846	Spindle - 1 1/4 Dia	1
11	S48847	Seal Counterface	1
12	S48848	Seal Retainer	1
13	S48849	Slotted Jam Nut - 3/4	1
14	S48850	Packer Hub Assembly	1
15	S50246	Tapered Wheel Nut - 1/2.....	5
16	S50247	Press-In Wheel Stud - 1/2	5
17	S51040	Packer Arm.....	1
18	S51041	Packer Spindle Receiver	1
19	S51160	Packer Arm Sub-Assembly.....	1
20	T-5268	Carriage Bolt - 5/8 x 2 Lg	2
21	W-476	Flat Washer - 3/4.....	1
22	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.....	1
23	W-486	Hex Bolt - 1/2 x 1 1/2 Lg.....	2
24	W-487	Hex Bolt - 1/2 x 1 3/4 Lg.....	2
25	W-529	Cotter Pin - 1/8 x 1 Lg	1
26	W-4187	Bearing Cone	2

Opener Packer Arm Assembly - 2020 to present



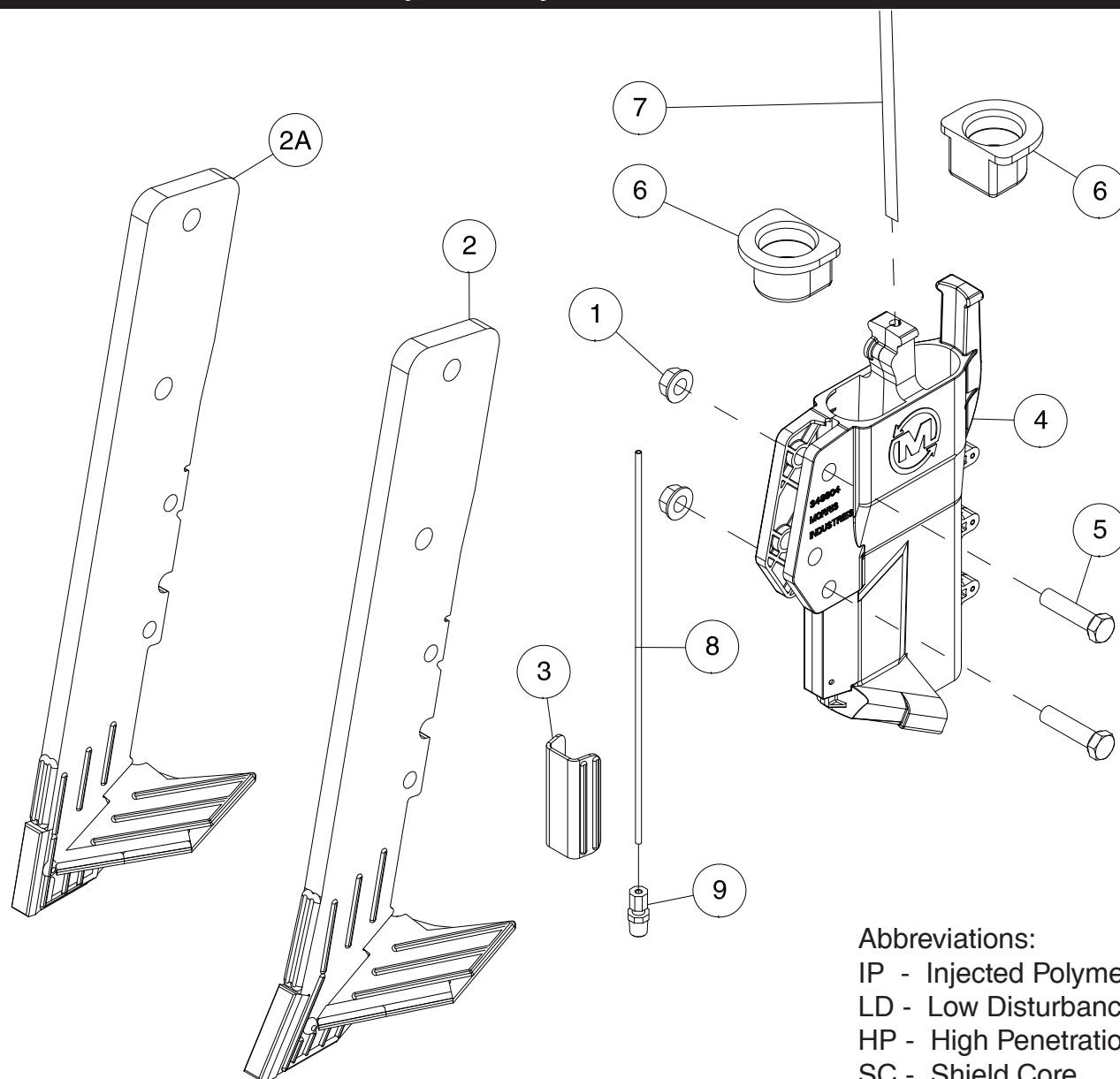
Item	Part No.	Description	Qty
1	M-3388	Lock Nut - 3/8 Unitorque	1
2	N14009	Bearing Cup	2
3	N14011	Dust Cap	1
4	S-752	Grease Zerk - 1/4	1
5	S48842	V-Seal - 1 1/4 Shaft	1
6	S48843	Dust Cap Retaining Wire	1
7	S48844	Hub Casting - 1000 Lb - 5 Bolt	1
8	S48846	Spindle - 1-1/4 Dia	1
9	S48847	Seal Counterface	1
10	S48848	Seal Retainer	1
11	S48849	Slotted Jam Nut - 3/4	1
12	S48850	Packer Hub Assembly (Includes Items# 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 18 & 19) .	1
13	S50246	Tapered Wheel Nut - 1/2.....	5
14	S50247	Press-In Wheel Stud - 1/2	5
15	S64673	Packer Arm.....	1
16	W-476	Washer - 3/4.....	1
17	W-479	Hex Bolt - 3/8 x 2 1/4 Lg.....	1
18	W-529	Cotter Pin - 1/8 x 1 Lg	1
19	W-4187	Bearing Cone	2

Opener Packer Wheel Assemblies



Item	Part No.	Description	Qty
1	S44301	Rim - 8 x 3.75 - 5 Bolt - Valve Stem - Pneumatic Tire.....	1
2	S44404	Pneumatic Tire - 480 x 8 Smooth.....	1
3	S44406	Tire Tube with Valve Cap.....	1
4	S44407	Valve Cap Metal	1
5	S44405	Pneumatic Tire - 480 (Includes items 1, 2, 3 & 4)	1
6	S44300	Semi Pneumatic Tire - 480 x 8	1
7	S44900	Semi Pneumatic Tire - 550 x 8	1
8	S47093	"V" Crown Packer Tire - 400 x 8.....	1
9	S64195	5.5" Otico Tire	1
10	S64194	4.5" Otico Tire	1

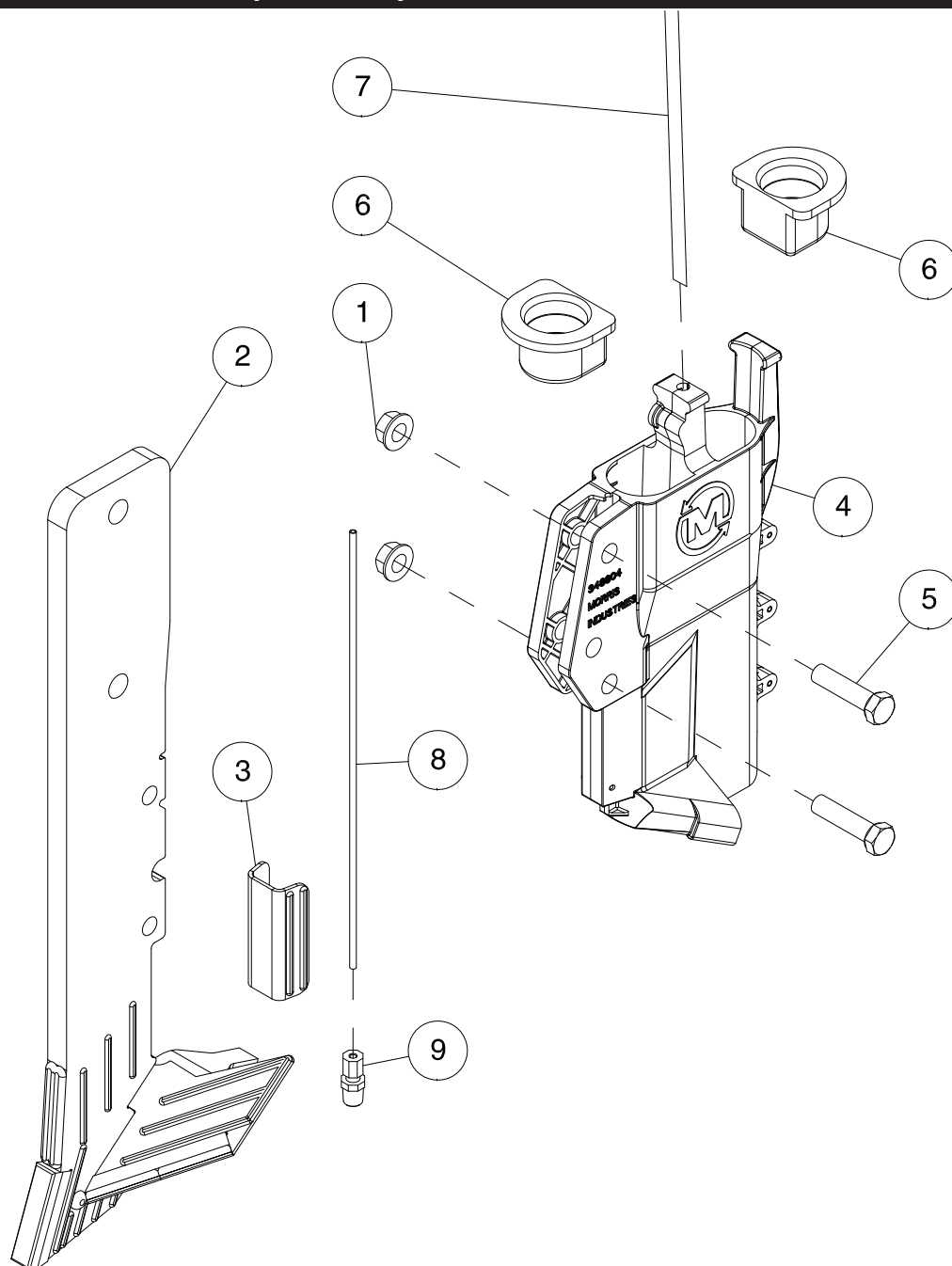
Seed Boot Injected Polymer Pair Row Kit



Abbreviations:
 IP - Injected Polymer
 LD - Low Disturbance
 HP - High Penetration
 SC - Shield Core

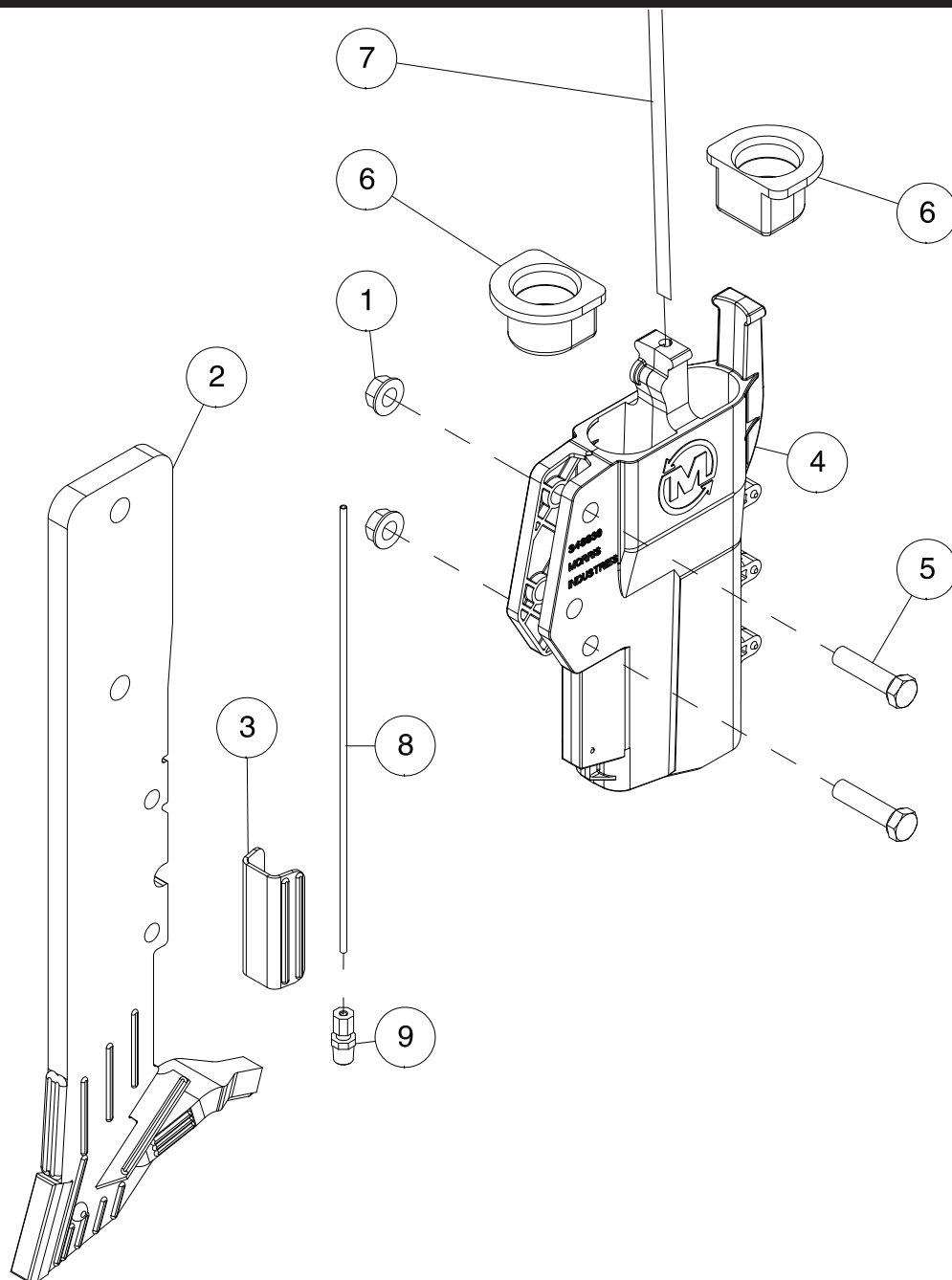
Item	Part No.	Description	Qty
1	S27987	Lock Nut - 3/8 Flange W/Center Lock	2
2	S62365	SC Paired Row Shank - HP	1
2A	S69694	SC Paired Row Shank - LD	1
3	S65074	SC Wear Guard	1
4	S56485	IP Paired Row Seed Boot	1
5	W-477	Hex Bolt - 3/8 x 1 1/2 Lg.	2
6	S47076	Secondary Hose Grommet	2
7	*****	Liquid Tube - 1/4 OD - See Liquid Kit Supplier for Tube	1
8	*****	Injector Tube - 1/8 OD - See NH3 Kit Supplier for Tube	1
9	S48814	Compression Fitting - 1/8 x 1/8	1
	S65123	Kit: SC Paired Row IP - HP (Contains Items 1, 2, 3, 4 & 5)	
	S69723	Kit: SC Paired Row IP - LD (Contains Items 1, 2A, 3, 4 & 5)	

Seed Boot Injected Polymer Left Sideband Kit



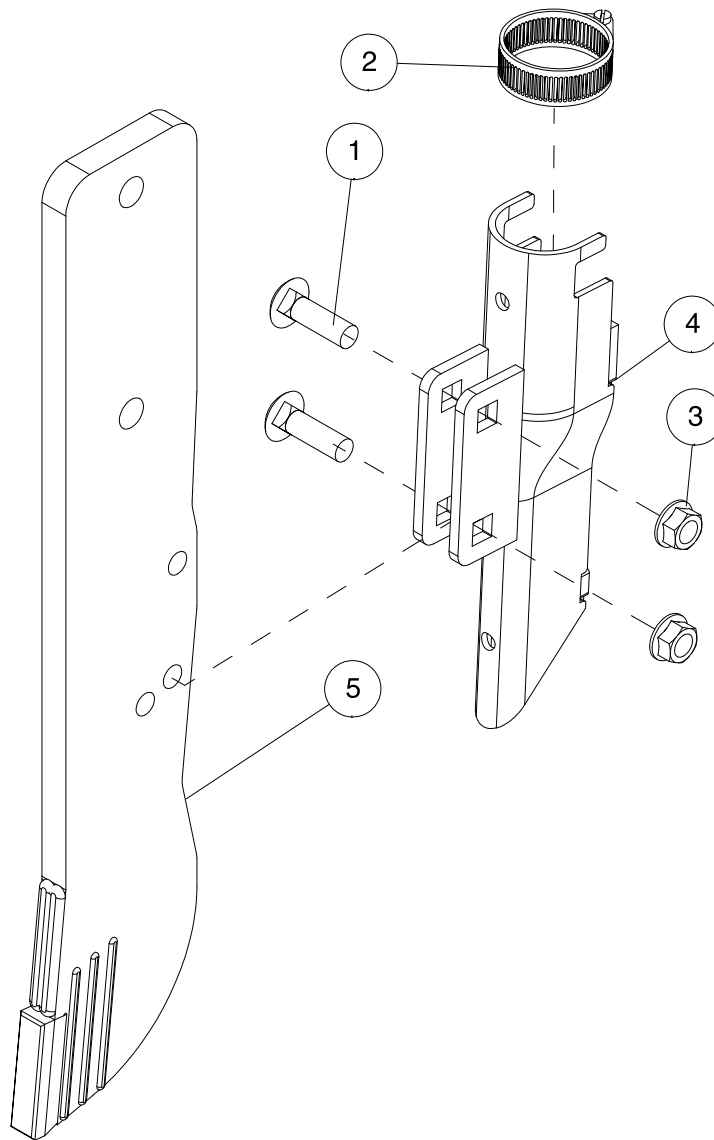
Item	Part No.	Description	Qty
1	S27987	Lock Nut - 3/8 Flange W/Center Lock	2
2	S65111	Sideband Shank - Left - SHIELD CORE	1
3	S65074	Wear Guard - SHIELD CORE	1
4	S56482	IP (Injected Polymer) Left Sideband Seed Boot	1
5	W-477	Hex Bolt - 3/8 x 1 1/2 Lg.	2
6	S47076	Secondary Hose Grommet	2
7	*****	Liquid Tube - 1/4 OD - See Liquid Kit Supplier for Tube	1
8	*****	Injector Tube - 1/8 OD - See NH3 Kit Supplier for Tube	1
9	S48814	Compression Fitting - 1/8 x 1/8	1
	S65122	IP Left Sideband Boot Kit - SHIELD CORE (Contains Items 1, 2, 3, 4 & 5)	1

Seed Boot Injected Polymer Right Side Band Kit



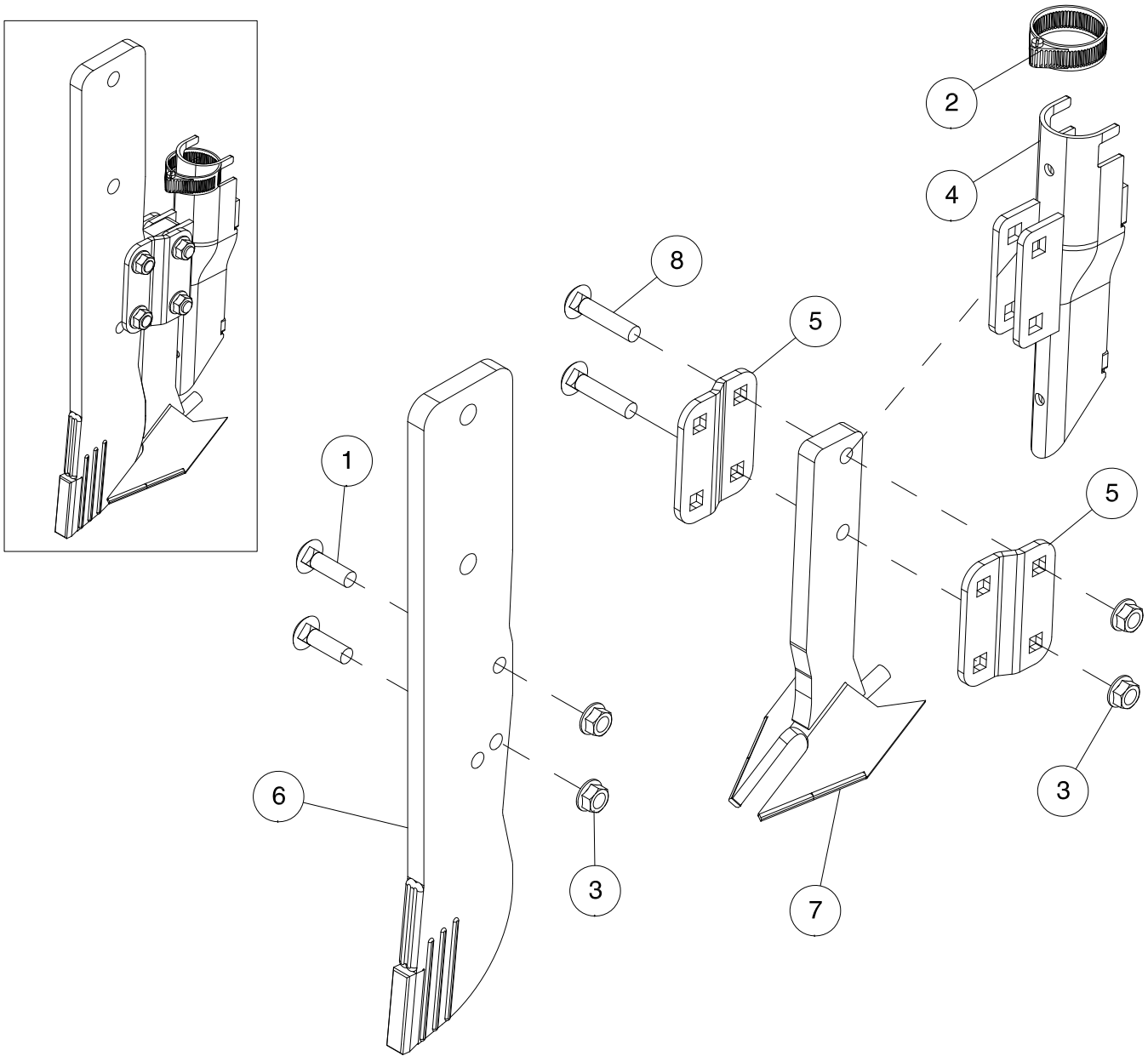
Item	Part No.	Description	Qty
1	S27987	Lock Nut - 3/8 Flange W/Center Lock	2
2	S65112	Sideband Shank - Right - SHIELD CORE	1
3	S65074	Wear Guard - SHIELD CORE	1
4	S56483	IP (Injected Polymer) Right Sideband Seed Boot	1
5	W-477	Hex Bolt - 3/8 x 1 1/2 Lg.....	2
6	S47076	Secondary Hose Grommet	2
7	*****	Liquid Tube - 1/4 OD - See Liquid Kit Supplier for Tube.....	1
8	*****	Injector Tube - 1/8 OD - See NH3 Kit Supplier for Tube	1
9	S48814	Compression Fitting - 1/8 x 1/8	1
	S65121	IP Right Sideband Boot Kit - SHIELD CORE(Contains Items 1, 2, 3, 4 & 5)	1

Seed Boot Single Shoot



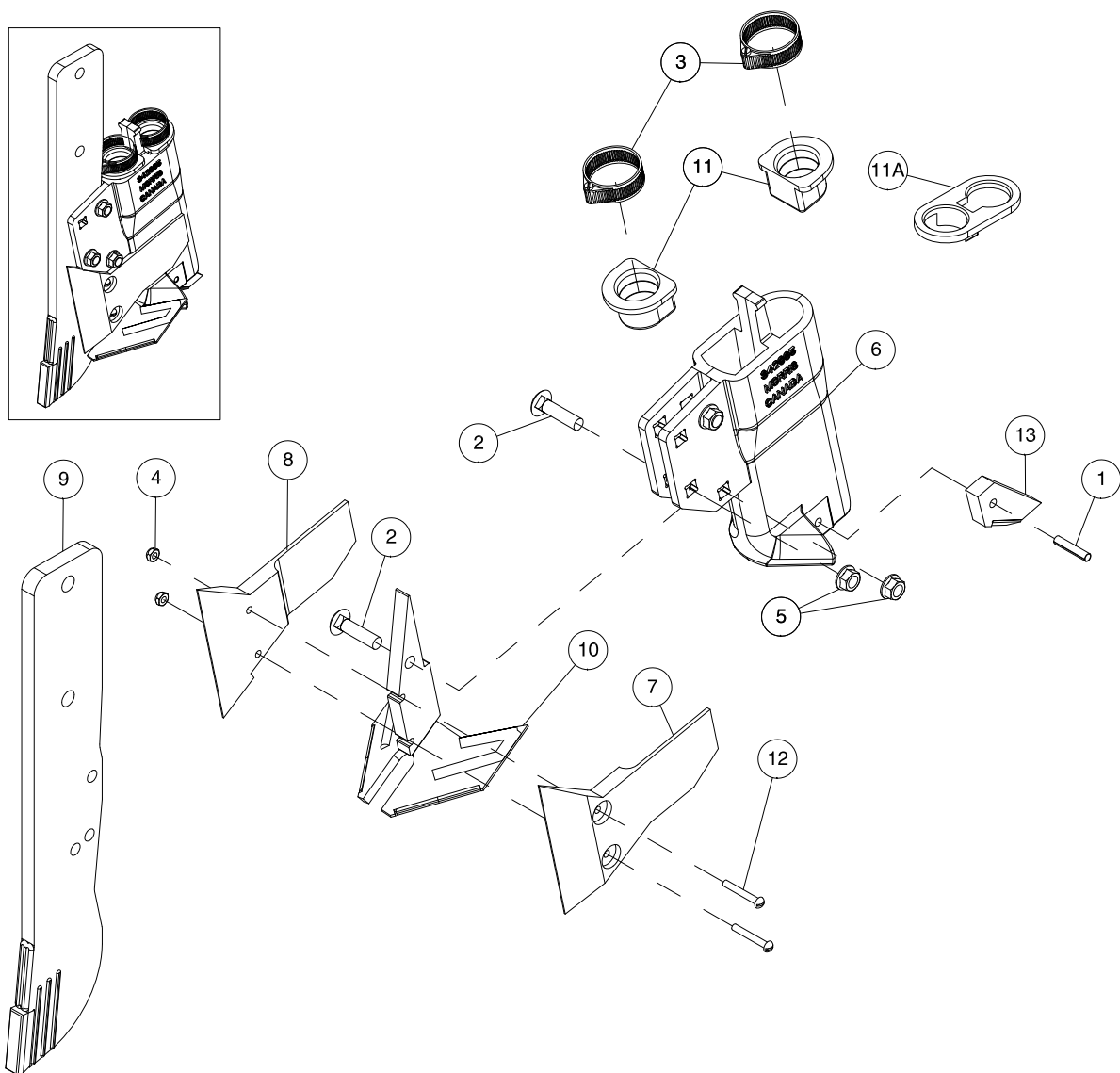
Item	Part No.	Description	Qty
1	D-5260	Carriage Bolt - 3/8 x 1-1/4 Lg	2
2	N11470	Hose Clamp	1
3	S27987	Center Lock Flange Lock Nut - 3/8	2
4	S42865	Single Shoot Boot	1
5	S65405	Wear Shank W/Carbide - SHIELD CORE	1

Seed Boot Single Shoot 3" Spreader



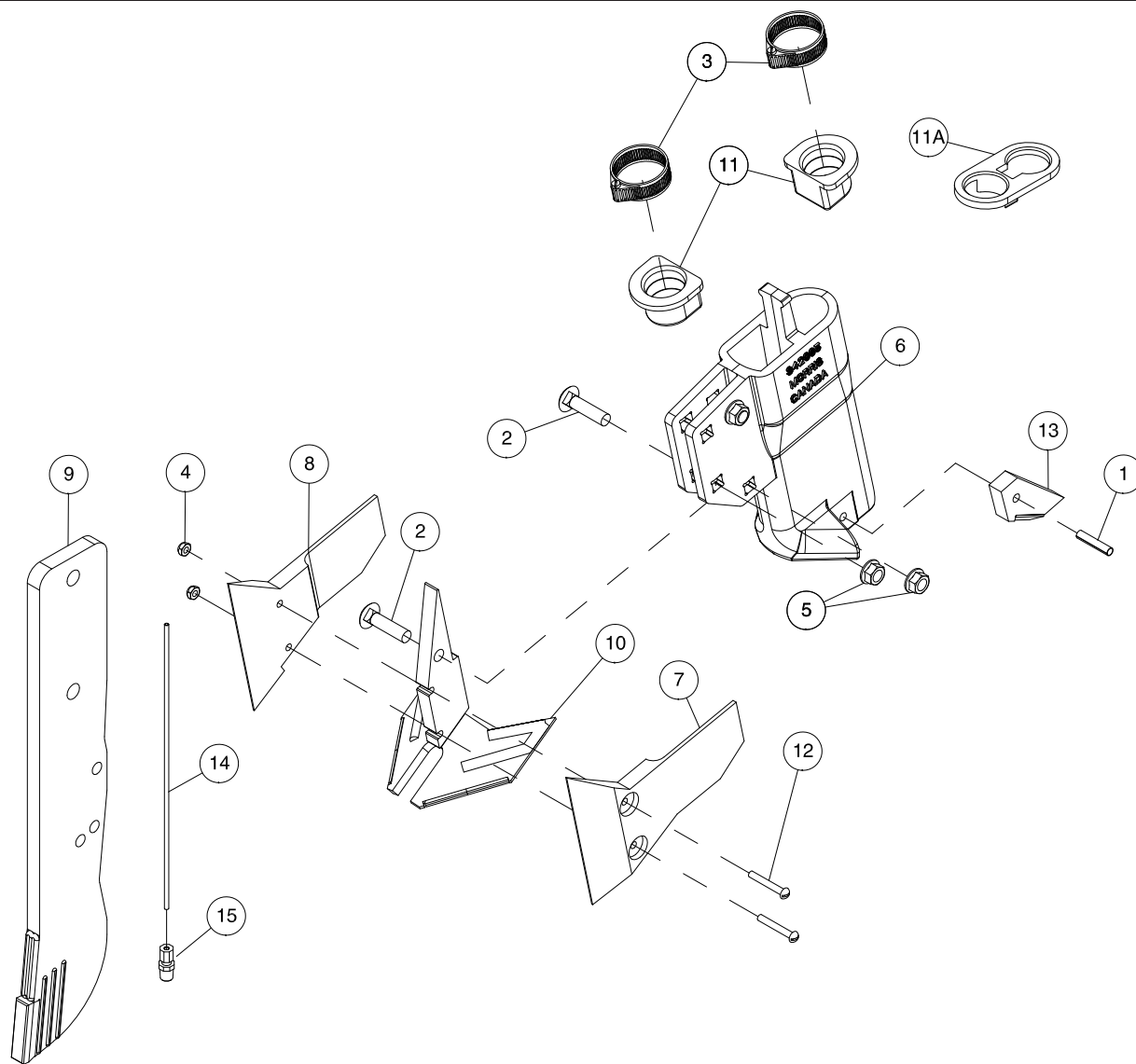
Item	Part No.	Description	Qty
1	D-5260	Carriage Bolt - 3/8 x 1-1/4 Lg	2
2	N11470	Hose Clamp	1
3	S27987	Center Lock Flange Lock Nut - 3/8	4
4	S42865	Single Shoot Boot	1
5	S45269	Mounting Plate	2
6	S65405	Wear Shank W/Carbide - SHIELD CORE	1
7	S47337	3" Wear Shovel	1
8	S31980	Carriage Bolt - 3/8 x 1-3/4 Lg	2

Seed Boot Double Shoot - Paired Row



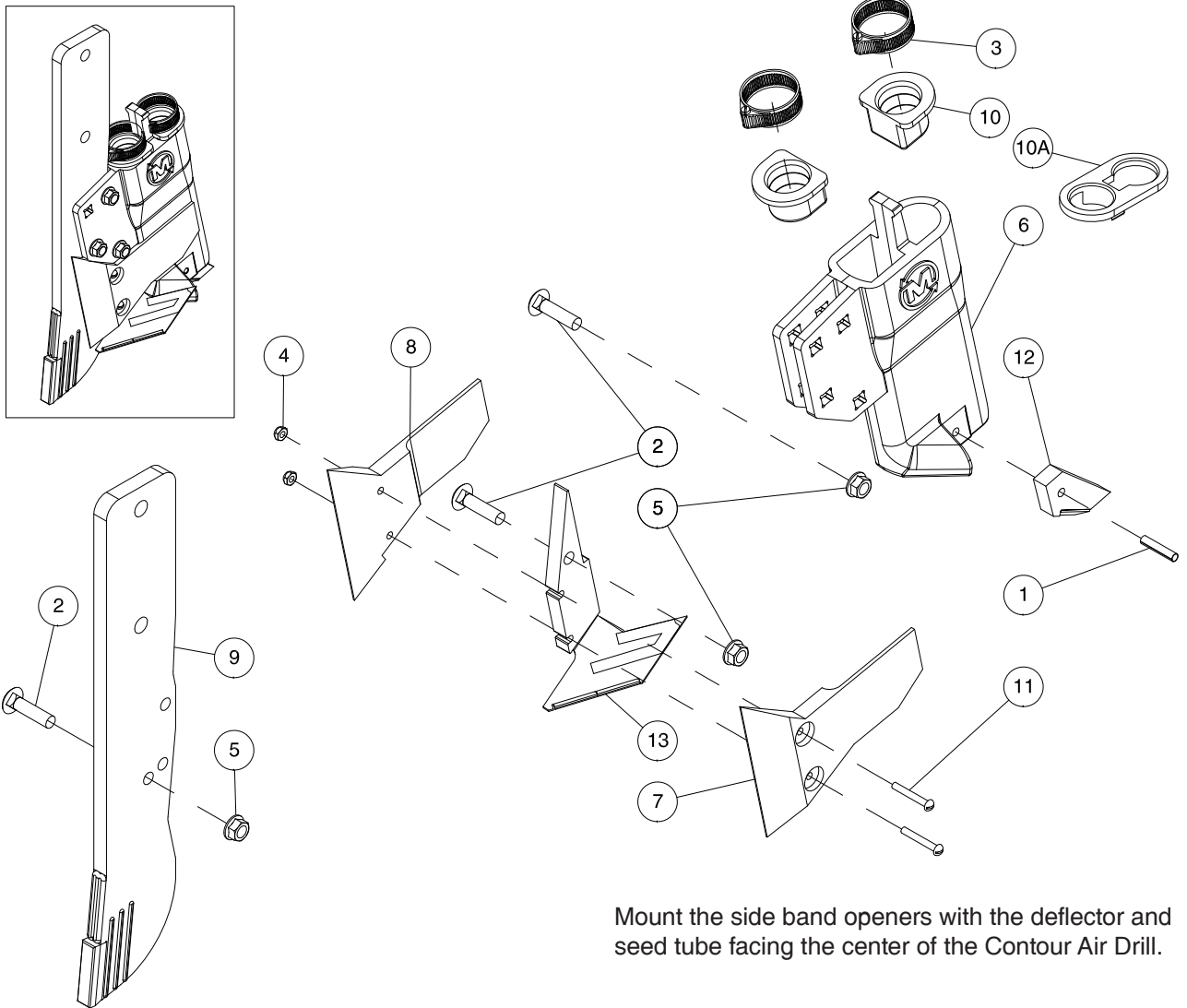
Item	Part No.	Description	Qty
1	D-5243	Roll Pin.....	1
2	D-5261	Carriage Bolt - 3/8 x 1-1/2 Lg	3
3	N11470	Hose Clamp	2
4	N37787	Nylon Insert Locknut - #10-24	2
5	S27987	Center Lock Flange Lock Nut - 3/8	3
6	S42965	Cast Double Shoot Boot	1
7	S45312	Mud Guard Option Left.....	1
8	S45313	Mud Guard Option Right	1
9	S65405	Shank - SHIELD CORE	1
10	S45470	Paired Row Shovel	1
11	S47076	Secondary Hose Grommet Option - 15/16 ID Hose	2
11A	S50245	Secondary Hose Grommet Option - 1.125 ID Hose	
12	S47128	Machine Screw - #10-24 x 1 3/8.....	2
13	S47980	Carbide Wear Tail.....	1
	S46181	Kit - Mud Guards (Includes Items 4, 7, 8, and 12)	

Seed Boot Double Shoot - High Pressure NH3 Kit



Item	Part No.	Description	Qty
1	D-5243	Roll Pin.....	1
2	D-5261	Carriage Bolt - 3/8 x 1-1/2 Lg	3
3	N11470	Hose Clamp	2
4	N37787	Nylon Insert Locknut - #10-24	2
5	S27987	Center Lock Flange Lock Nut - 3/8	3
6	S42965	Cast Double Shoot Boot	1
7	S45312	Mud Guard Option Left.....	1
8	S45313	Mud Guard Option Right	1
9	S65405	Shank - SHIELD CORE	1
10	S45470	Paired Row Shovel.....	1
11	S47076	Secondary Hose Grommet Option - 15/16 ID Hose	2
11A	S50245	Secondary Hose Grommet Option - 1.125 ID Hose	
12	S47128	Machine Screw - #10-24 x 1 3/8.....	2
13	S47980	Carbide Wear Tail.....	1
14	S48813	NH3 Injector Tube - 1/8 OD x 10 Lg T304 Stainless Tube	1
15	S48814	Compression Fitting - 1/8 Tube x 1/8 Male Pipe	1
	S46384	Kit - High Pressure Anhydrous (Includes Items 15 and 16)	

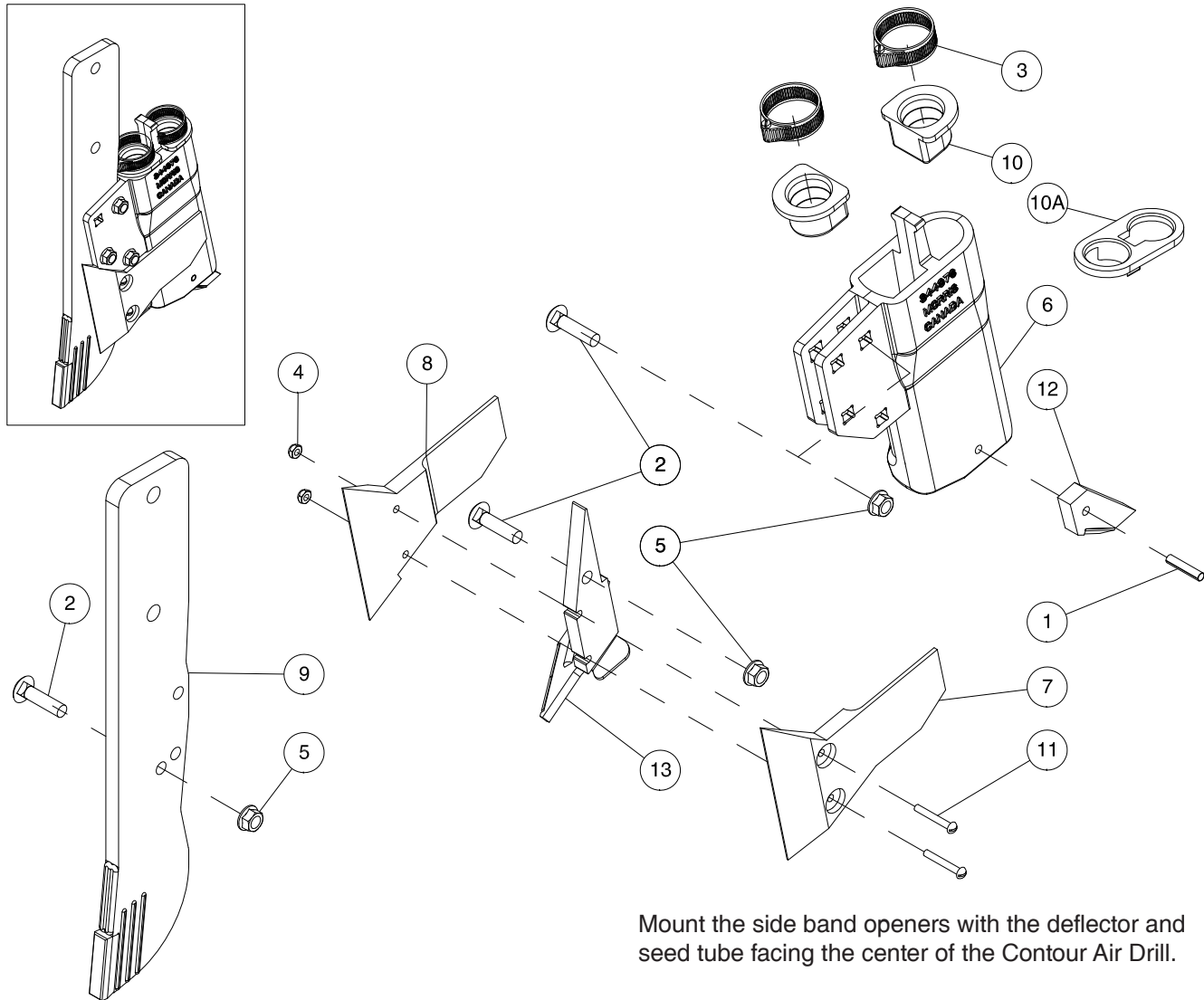
Seed Boot Double Shoot - Side Band - Left



Mount the side band openers with the deflector and seed tube facing the center of the Contour Air Drill.

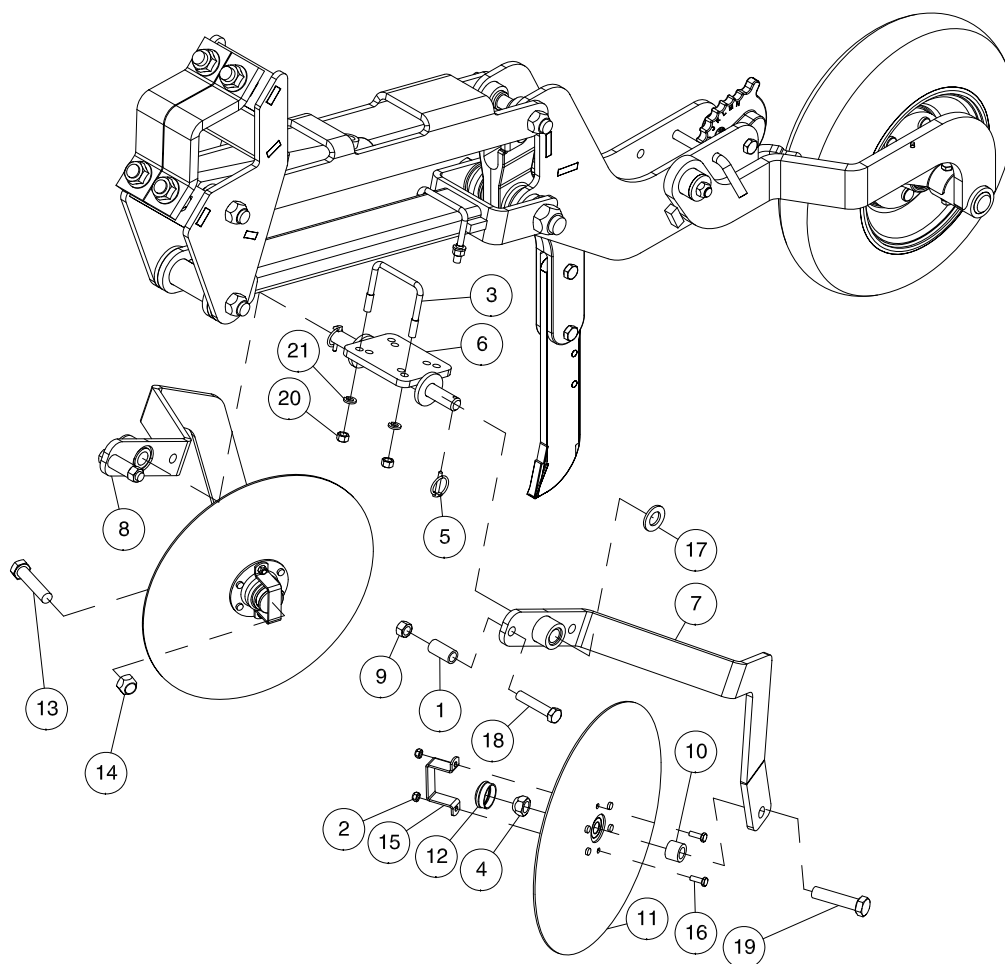
Item	Part No.	Description	Qty
1	D-5243	Roll Pin.....	1
2	D-5261	Carriage Bolt - 3/8 x 1-1/2 Lg	3
3	N11470	Hose Clamp	2
4	N37787	Nylon Insert Locknut - #10-24	2
5	S27987	Center Lock Flange Lock Nut - 3/8	3
6	S44977	Cast Double Shoot Boot - Side Band - Left.....	1
6A	S51469	Cast Double Shoot Boot - Side Band - Left - Carbide	
7	S45312	Mud Guard Option Left.....	1
8	S45313	Mud Guard Option Right	1
9	S65405	Shank - SHIELD CORE	1
10	S47076	Secondary Hose Grommet Option - 15/16 ID Hose	2
10A	S50245	Secondary Hose Grommet Option - 1.125 ID Hose	
11	S47128	Machine Screw - #10-24 x 1-3/8.....	2
12	S47980	Carbide Wear Tail.....	1
13	S49536	Side Band Shovel.....	1
	S46181	Kit - Mud Guards (Includes Items 4, 7, 8, and 11)	

Seed Boot Double Shoot - Side Band Boot - Right



Item	Part No.	Description	Qty
1	D-5243	Roll Pin - 1/4 x 1 1/4 Lg.....	1
2	D-5261	Carriage Bolt - 3/8 x 1-1/2 Lg	3
3	N11470	Hose Clamp	2
4	N37787	Nylon Insert Locknut - #10-24	2
5	S27987	Center Lock Flange Lock Nut - 3/8	3
6	S44976	Cast Double Shoot Boot - Side Band - Right	1
6A	S51470	Cast Double Shoot Boot - Side Band - Right - Carbide	
7	S45312	Mud Guard Option Left.....	1
8	S45313	Mud Guard Option Right	1
9	S65405	Shank - SHIELD CORE	1
10	S47076	Secondary Hose Grommet Option - 15/16 ID Hose	2
10A	S50245	Secondary Hose Grommet Option- 1.125 ID Hose	
11	S47128	Machine Screw - #10-24 x 1-3/8.....	2
12	S47980	Carbide Wear Tail.....	1
13	S49537	Side Band Shovel - Right.....	1
	S46181	Kit - Mud Guards (Includes Items 4, 7, 8, and 11)	

Soil Levelers



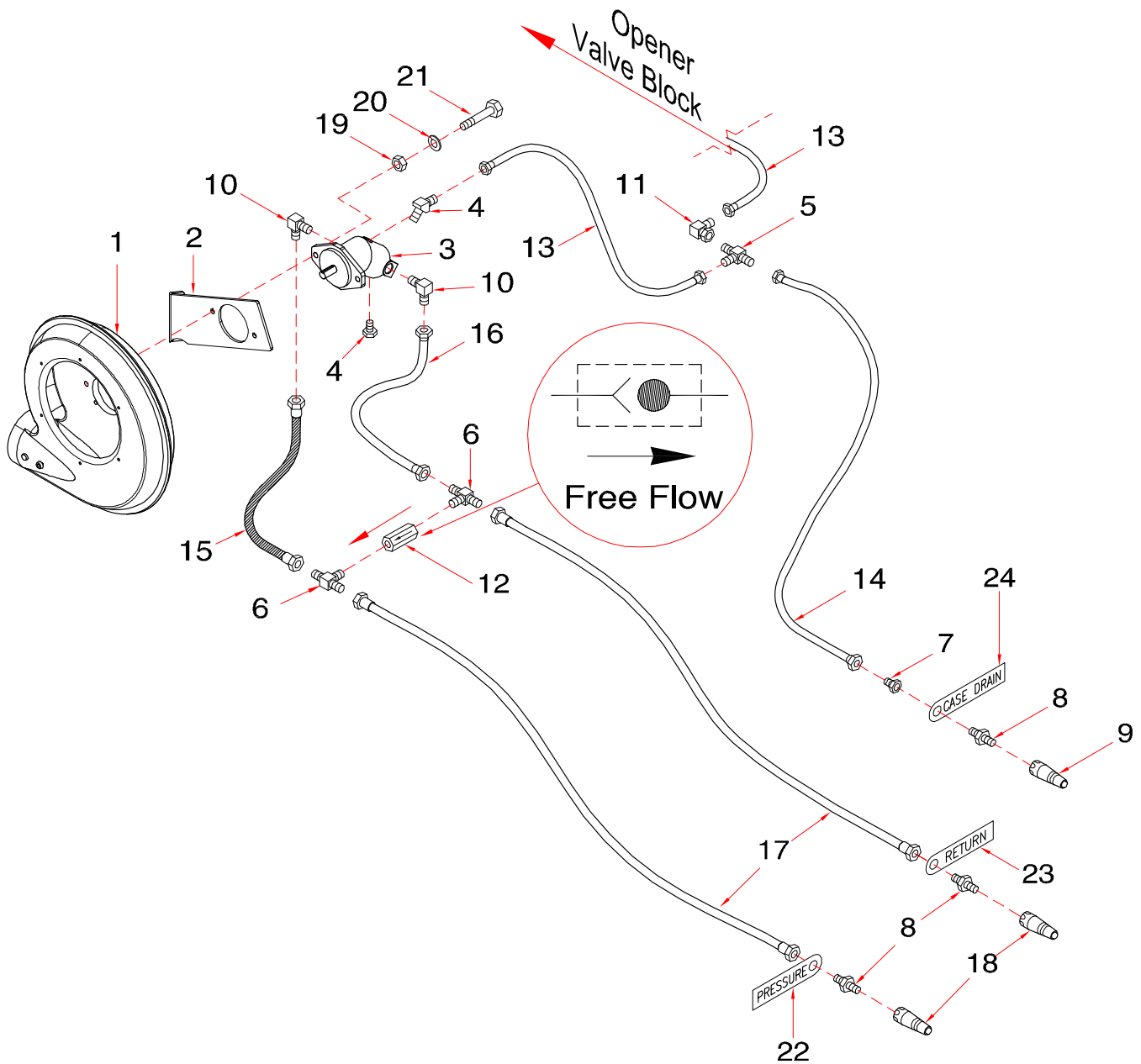
Item	Part No.	Description	Qty
1	A28898	Stop Pipe - 3/4 OD x .532 ID	2
2	N15757	Locknut - 1/4 Unitorque.....	4
3	N27709	Ubolt - 3/8 x 3 x 2 3/4 Lg.....	2
4	S-1197	Locknut - 5/8 Unitorque.....	1
5	S42294	Lynch Pin - 3/16 Dia x 1/14 Lg	2
6	S44440	Mounting Bracket	1
7	S44444	Soil Leveller Arm - Left (Includes Bushing C26525).....	1
8	S44445	Soil Leveller Arm - Right (Includes Bushing C26525)	1
9	S47110	Hex Nut - 1/2 Center Lock.....	2
10	S47395	Spacer Bushing - 1 OD x .627 ID.....	2
11	S47687	14" Closing Disc Assy - Includes Dust Cap Item# 12.....	2
12	S47692	Dust Cap	2
13	S47693	Hex Bolt Lht - 5/8 x 2 3/4 Lg.....	1
14	S47694	Locknut Lht - 5/8 Unitorque.....	1
15	S47695	Dust Cap Retainer.....	2
16	W-469	Hex Head - 1/4 x 3/4 Lg	4
17	W-476	Flat Washer - 3/4.....	2
18	W-490	Hex Bolt - 1/2 x 2 1/2 Lg.....	3
19	W-502	Hex Bolt - 5/8 x 2 3/4 Lg.....	1
20	W-514	Hex Nut - 3/8.....	4
21	W-523	Lockwasher - 3/8.....	4
	S46334	Soil Leveler Kit Contour (Contains All Items)	

Section 5: Hydraulics

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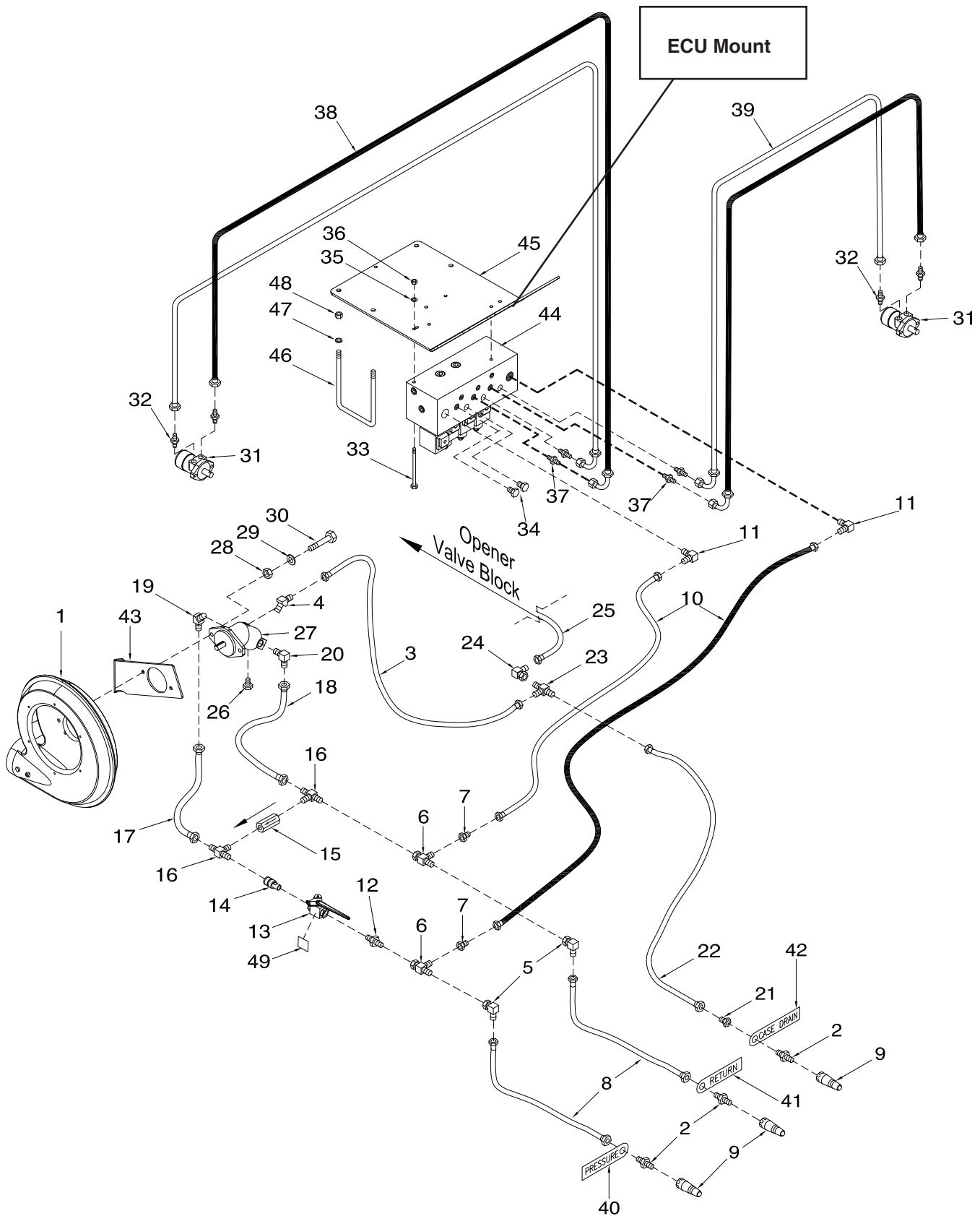
Fan Hydraulics Ground Drive



Fan Hydraulics - Ground Drive

Item	Part No.	Description	Qty
1	N16263	Fan	1
2	N37468	Fan Mounting Plate	1
3	N29372	Hydraulic Motor - Rexroth - 12cc (N25508 Seal Kit) (N25507 Seal Only)	1
4	N16621	Plug - 9/16-18 MORB	1
5	C-4393	Tee - (3) 9/16-18 MJIC	1
6	N16388	Tee - (2) 1 1/16-12 MJIC x (1) 1 1/16-12 MORB.....	2
7	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
8	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	3
9	N19578	45 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	1
10	N16359	90 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	2
11	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	1
12	N16399	Check Valve - 7 psi - 1 1/16-12 FORB.....	1
13	S39506	Hyd Hose - 1/4 x 66 Lg W/9/16-18 FJIC	2
14	C26339	Hyd Hose - 1/4 x 120 Lg W/9/16-18 FJIC	1
15	N15991	Hyd Hose - 3/4 x 12 Lg W/1 1/16-12 FJIC	1
16	N37900	Hyd Hose - 3/4 x 18 Lg W/1 1/16-12 FJIC	1
17	N50084	Hyd Hose - 3/4 x 132 Lg - 7/8-14 FJIC x 1 1/16-12 FJIC.....	2
18	N34443	Male Pioneer Tip - 3/4-16 FORB.....	3
19	W-516	Hex Nut - 1/2.....	2
20	W-525	Lockwasher - 1/2.....	2
21	S-1189	Hex Bolt - 1/2 x 13/4 Lg.....	2
22	N29962	Tag - Hose - ID - Air Tank - Fan/Auger - Pressure.....	1
23	N29963	Tag - Hose - ID - Air Tank - Fan/Auger - Return	1
24	N29964	Tag - Hose - ID - Air Tank - Fan/Auger - Case Drain	1

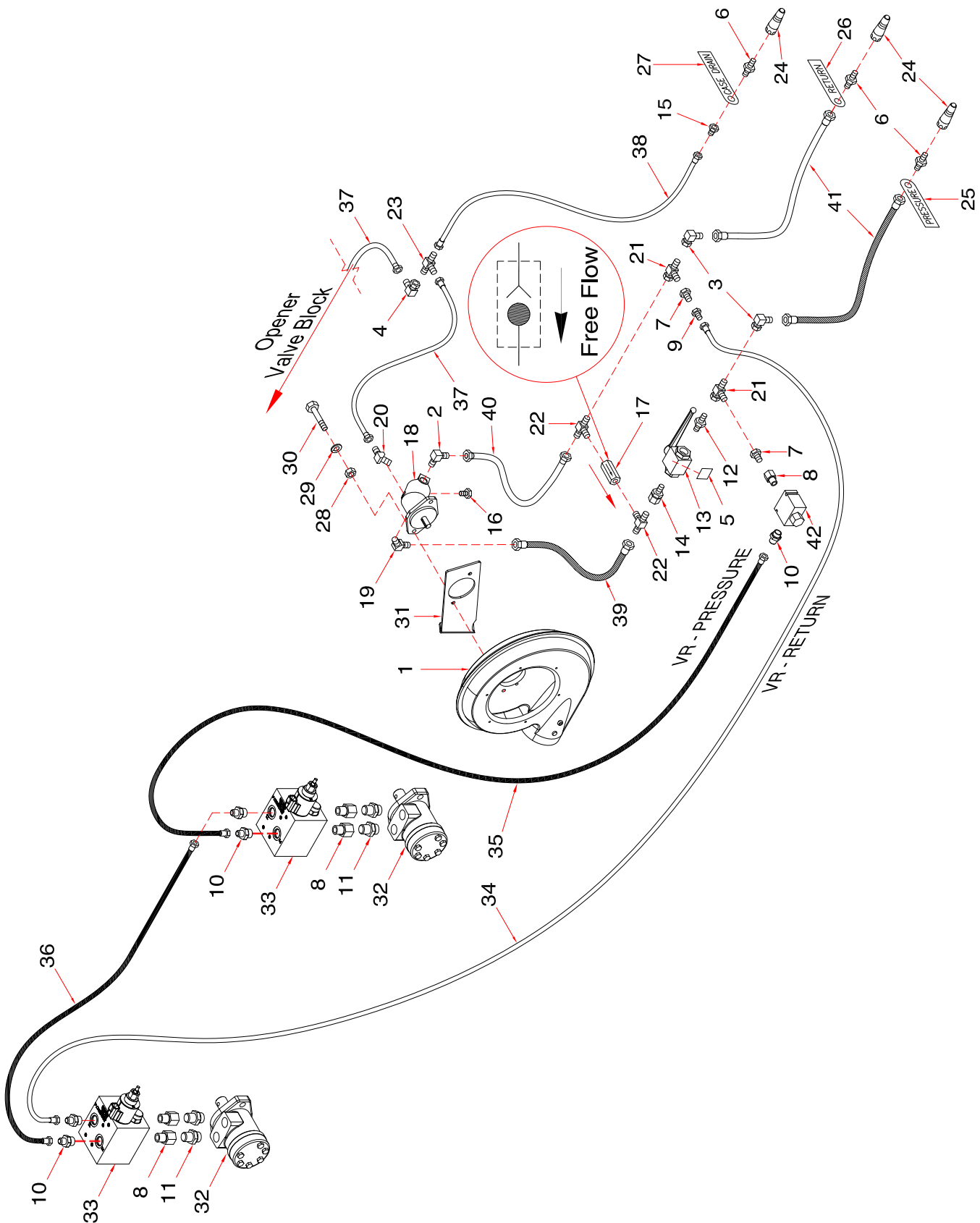
Fan Hydraulics VRT Drive - 2 Tank - Prior to 2019



Fan Hydraulics - VRT Drive - 2 Tank - Prior to 2019

Item	Part No.	Description	Qty
1	N16263	Fan	1
2	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	3
3	S39506	Hyd Hose - 1/4 x 66 Lg - #6 9/16-18 FJIC Both Ends.....	1
4	N19578	45 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	1
5	N21189	90 Elbow - Swivel - 1 1/16-12 FJIC x 1 1/16-12 MJIC.....	2
6	N29356	Tee - Swivel - (1) - 1 1/16 FJIC x (2) - 1 1/16 MJIC.....	2
7	N19337	Connector - 7/8-14 MJIC x 1 1/16-12 FJIC	2
8	N50084	Hyd Hose - 3/4 x 132 Lg - 7/8-14 FJIC x 1 1/16-12 FJIC.....	2
9	N34443	Male Pioneer Tip - 3/4-16 FORB.....	3
10	H-4408	Hyd Hose - 1/2 x 84 Lg W/7/8-14 FJIC	2
11	C15318	90 Elbow - 7/8-14 MJIC x 7/8-14 MORB.....	2
12	N15990	Connector - 1 1/16-12 MJIC x 1 1/16-12 MORB.....	1
13	N37845	Ball Valve.....	1
14	N37849	Connector - 1 1/16-12 MORB x 1 1/16-12 FJIC	1
15	N16399	Check Valve - 7 psi - 1 1/16-12 FORB.....	1
16	N16388	Tee - (2) 1 1/16-12 MJIC x (1) 1 1/16-12 MORB.....	2
17	N15991	Hyd Hose - 3/4 x 12 Lg W/1 1/16-12 FJIC	1
18	N37900	Hyd Hose - 3/4 x 18 Lg W/1 1/16-12 FJIC	1
19	N31096	45 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
20	N16359	90 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
21	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
22	C26339	Hyd Hose - 1/4 x 120 Lg W/9/16-18 FJIC	1
23	C-4393	Tee - (3) 9/16-18 MJIC	1
24	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	1
25	S39506	Hyd Hose - 1/4 x 66 Lg W/9/16-18 FJIC	1
26	N16621	Plug - 9/16-18 MORB.....	1
27	N29372	Hydraulic Motor - Rexroth - 12cc (N25508 Seal Kit) (N25507 Seal Only)	1
28	W-516	Hex Nut - 1/2.....	2
29	W-525	Lockwasher - 1/2.....	2
30	S-1189	Hex Bolt - 1/2 x 13/4 Lg.....	2
31	N29319	Hydraulic Motor - Danfoss.....	2
32	N29359	Connector - 3/4-16 MJIC x 7/8-14 MORB	4
33	W-1847	Hex Bolt - 1/4 x 5 Lg.....	2
34	N29365	Plug - 9/16-18 MORB.....	2
35	W-521	Lockwasher - 1/4	2
36	W-512	Hex Nut - 1/4	2
37	N29358	Connector - 3/4 - 16 MJIC x 9/16 - 18 MORB	4
38	N29364	Hyd Hose - 3/8 x 72 Lg W/3/4-16 FJIC x 9/16-18 FJIC W/90 Bend.....	2
39	N50079	Hyd Hose - 3/8 x 84 Lg W/3/4-16 FJIC x 9/16-18 FJIC W/90 Bend.....	2
40	N29962	Tag - Hose - ID - Air Tank - Fan/Auger - Pressure.....	1
41	N29963	Tag - Hose - ID - Air Tank - Fan/Auger - Return	1
42	N29964	Tag - Hose - ID - Air Tank - Fan/Auger - Case Drain	1
43	N37468	Fan Mounting Plate	1
44	N45505	Valve Manifold Assembly.....	1
45	N45193	Mounting Plate - Manifold	1
46	N19723	U-Bolt - 3/8 x 4 1/16 x 6 15/16.....	2
47	W-523	Lockwasher - 3/8.....	4
48	W-514	Hex Nut - 3/8.....	4
49	N49783	Decal - Fan/Calibrate.....	1

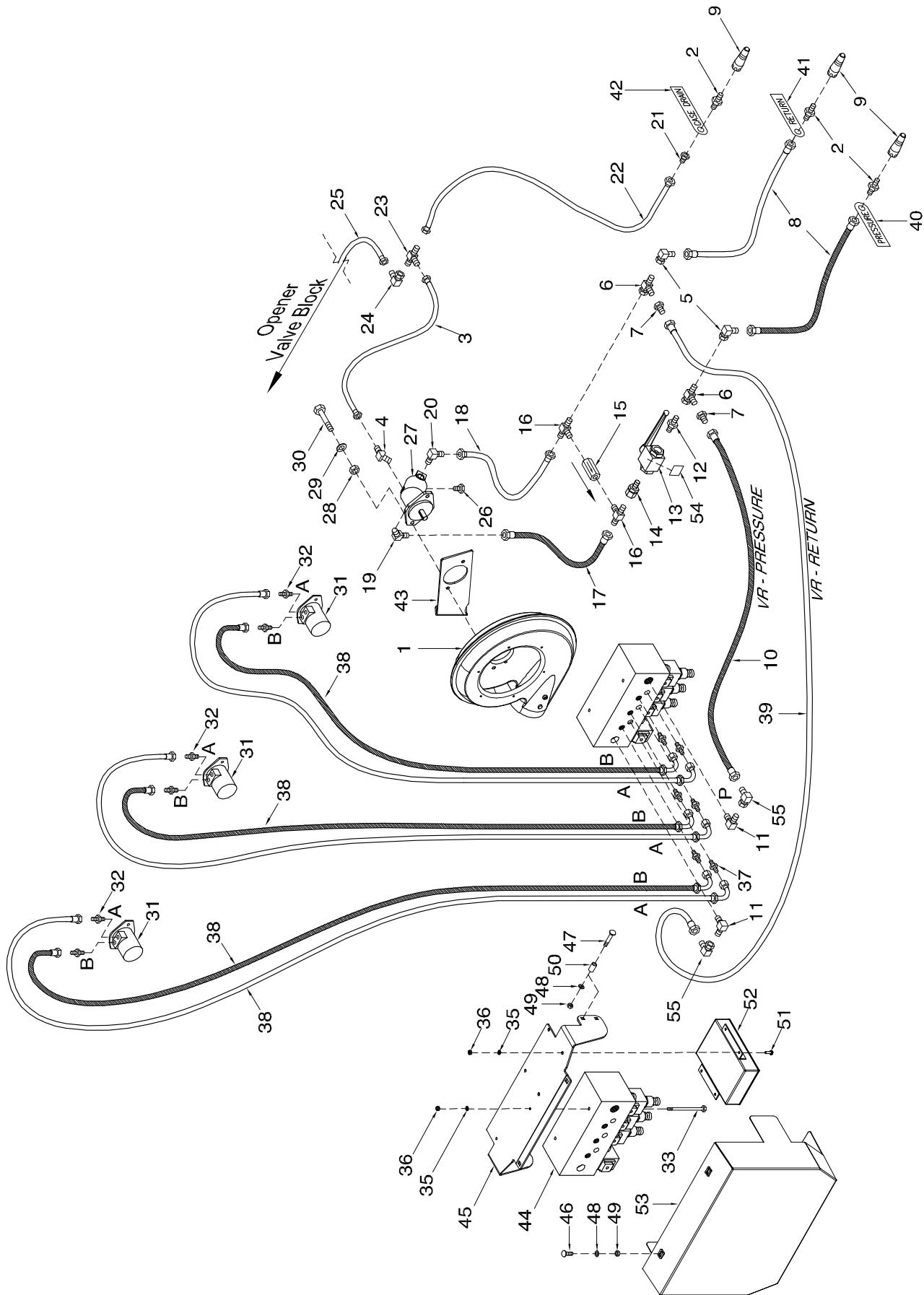
Fan Hydraulics VRT Drive - 2 Tank - 2019 to Present



Fan Hydraulics - VRT Drive - 2 Tank - 2019 to Present

Item	Part No.	Description	Qty
1	N16263	Fan	1
2	N16359	90 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
3	N21189	90 Elbow - Swivel - 1 1/16-12 FJIC x 1 1/16-12 MJIC	2
4	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	1
5	N49783	Decal - Fan/Calibrate.....	1
6	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	3
7	N19337	Connector - 7/8-14 (#10) MJIC x 1 1/16-12 (#12) FJIC	2
8	N49460	Connector - Swivel - 7/8-14 (#10) FJIC x 3/4-16 (#08) MORB.....	7
9	C-4392	Connector - 7/8-14 (#10) FJIC x 9/16-18 (#06) MJIC.....	1
10	C15348	Connector - 9/16-18 (#06) MJIC x 3/4-16 (#08) MORB.....	7
11	N34505	Connector - 7/8-14 (#10) MJIC x 7/8-14 (#10) MORB.....	6
12	N15990	Connector - 1 1/16-12 MJIC x 1 1/16-12 MORB.....	1
13	N37845	Ball Valve.....	1
14	N37849	Connector - 1 1/16-12 MORB x 1 1/16-12 FJIC	1
15	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
16	N16621	Plug - 9/16-18 MORB.....	1
17	N16399	Check Valve - 7 psi - 1 1/16-12 FORB.....	1
18	N29372	Hydraulic Motor - Rexroth - 12cc (N25508 Seal Kit) (N25507 Seal Only)	1
19	N31096	45 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
20	N19578	45 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	1
21	N29356	Tee - Swivel - (1) - 1 1/16 FJIC x (2) - 1 1/16 MJIC.....	2
22	N16388	Tee - (2) 1 1/16-12 MJIC x (1) 1 1/16-12 MORB.....	2
23	C-4393	Tee - (3) 9/16-18 MJIC	1
24	N34443	Male Pioneer Tip - 3/4-16 FORB.....	3
25	N29962	Tag - Hose - ID - Air Tank - Fan/Auger - Pressure.....	1
26	N29963	Tag - Hose - ID - Air Tank - Fan/Auger - Return	1
27	N29964	Tag - Hose - ID - Air Tank - Fan/Auger - Case Drain	1
28	W-516	Hex Nut - 1/2.....	2
29	W-525	Lockwasher - 1/2.....	2
30	S-1189	Hex Bolt - 1/2 x 13/4 Lg.....	2
31	N37468	Fan Mounting Plate	1
32	N29319	Hydraulic Motor - Danfoss.....	3
33	N60258	Manifold Assembly	3
34	S65409	Hyd Hose - 3/8 x 108 Lg - 9/16-18 FJIC Ends	1
35	S65380	Hyd Hose - 3/8 x 45 Lg - #6 9/16-18 FJIC Ends	1
36	S65407	Hyd Hose - 3/8 x 72 Lg w/ #6 9/16-18 FJIC	1
37	S39506	Hyd Hose - 1/4 x 66 Lg W/9/16-18 FJIC	2
38	C26339	Hyd Hose - 1/4 x 120 Lg W/9/16-18 FJIC	1
39	N15991	Hyd Hose - 3/4 x 12 Lg W/1 1/16-12 FJIC	1
40	N37900	Hyd Hose - 3/4 x 18 Lg W/1 1/16-12 FJIC	1
41	N50084	Hyd Hose - 3/4 x 132 Lg - 7/8-14 FJIC x 1 1/16-12 FJIC.....	2
42	N66211	Valve Flow Control - Single Fan (N29325 Cartridge) (Valve Block Body N67290)	1

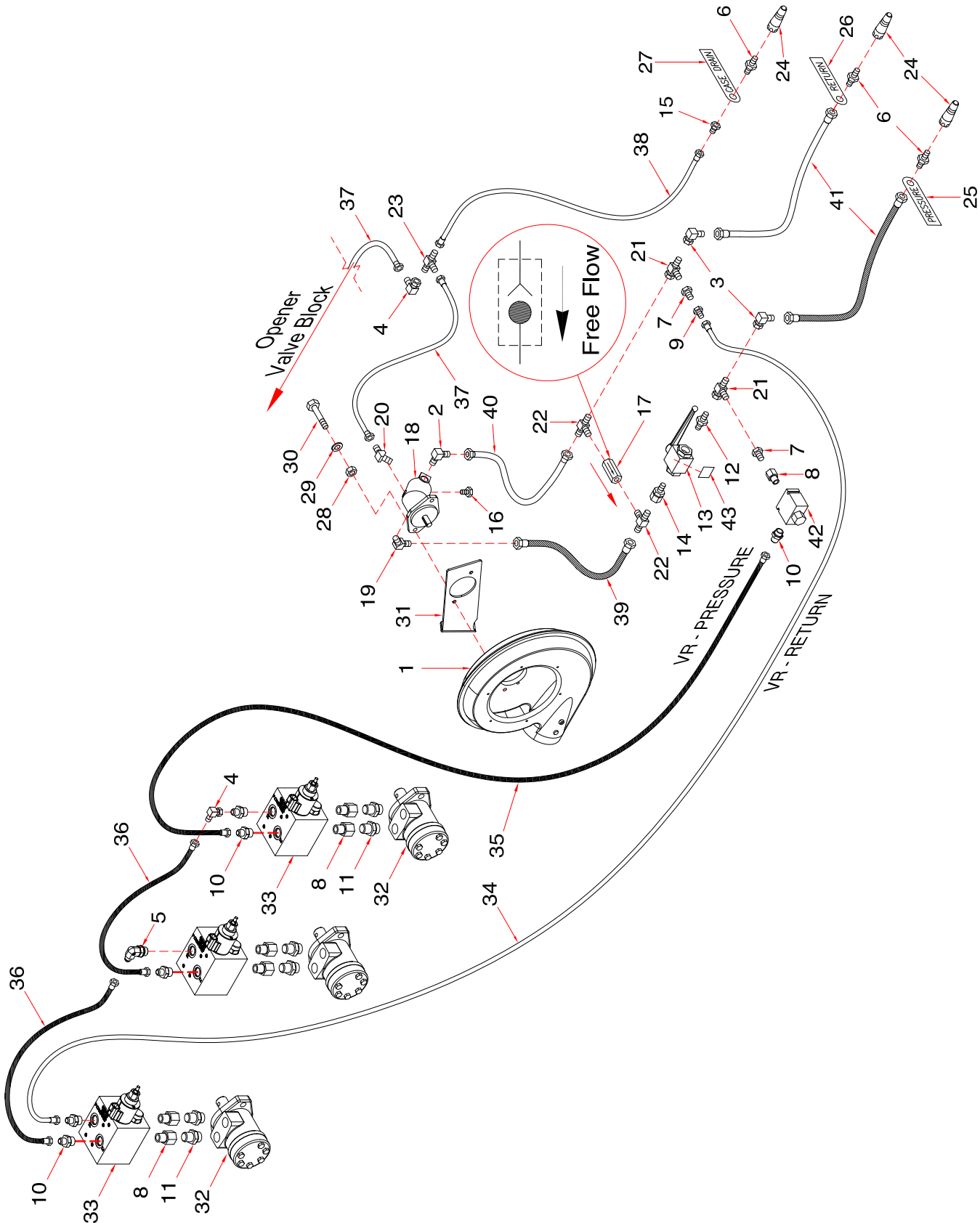
Fan Hydraulics VRT Drive - 3 Tank - Prior to 2019



Fan Hydraulics - VRT Drive - 3 Tank - Prior to 2019

Item	Part No.	Description	Qty
1	N16263	Fan	1
2	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	3
3	S39506	Hyd Hose - 1/4 x 66 Lg - #6 9/16-18 FJIC Both Ends.....	1
4	N19578	45 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	1
5	N21189	90 Elbow - Swivel - 1 1/16-12 FJIC x 1 1/16-12 MJIC.....	2
6	N29356	Tee - Swivel - (1) - 1 1/16 FJIC x (2) - 1 1/16 MJIC.....	2
7	N19337	Connector - 7/8-14 MJIC x 1 1/16-12 FJIC	2
8	N50084	Hyd Hose - 3/4 x 132 Lg - 7/8-14 FJIC x 1 1/16-12 FJIC.....	2
9	N34443	Male Pioneer Tip - 3/4-16 FORB.....	3
10	H-4410	Hyd Hose - 1/2 x 96 Lg W/7/8-14 FJIC	1
11	C15318	90 Elbow - 7/8-14 MJIC x 7/8-14 MORB	2
12	N15990	Connector - 1 1/16-12 MJIC x 1 1/16-12 MORB.....	1
13	N37845	Ball Valve.....	1
14	N37849	Connector - 1 1/16-12 MORB x 1 1/16-12 FJIC	1
15	N16399	Check Valve - 7 psi - 1 1/16-12 FORB.....	1
16	N16388	Tee - (2) 1 1/16-12 MJIC x (1) 1 1/16-12 MORB.....	2
17	N15991	Hyd Hose - 3/4 x 12 Lg W/1 1/16-12 FJIC	1
18	N37900	Hyd Hose - 3/4 x 18 Lg W/1 1/16-12 FJIC	1
19	N31096	45 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
20	N16359	90 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
21	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
22	C26339	Hyd Hose - 1/4 x 120 Lg W/9/16-18 FJIC	1
23	C-4393	Tee - (3) 9/16-18 MJIC	1
24	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	1
25	S39506	Hyd Hose - 1/4 x 66 Lg W/9/16-18 FJIC	1
26	N16621	Plug - 9/16-18 MORB.....	1
27	N29372	Hydraulic Motor - Rexroth - 12cc (N25508 Seal Kit) (N25507 Seal Only)	1
28	W-516	Hex Nut - 1/2.....	2
29	W-525	Lockwasher - 1/2.....	2
30	S-1189	Hex Bolt - 1/2 x 13/4 Lg.....	2
31	N29319	Hydraulic Motor - Danfoss.....	2
32	N29359	Connector - 3/4-16 MJIC x 7/8-14 MORB	4
33	W-1847	Hex Bolt - 1/4 x 5 Lg.....	2
34	N29365	Plug - 9/16-18 MORB.....	2
35	W-521	Lockwasher - 1/4	6
36	W-512	Hex Nut - 1/4	6
37	N29358	Connector - 3/4 - 16 MJIC x 9/16 - 18 MORB	4
38	N50079	Hyd Hose - 3/8 x 84 Lg W/3/4-16 FJIC x 9/16-18 FJIC W/90 Bend.....	6
39	N53211	Hyd Hose - 1/2 x 120 Lg W/7/8-14 FJIC	1
40	N29962	Tag - Hose - ID - Air Tank - Fan/Auger - Pressure.....	1
41	N29963	Tag - Hose - ID - Air Tank - Fan/Auger - Return	1
42	N29964	Tag - Hose - ID - Air Tank - Fan/Auger - Case Drain	1
43	N37468	Fan Mounting Plate	1
44	N45505	Valve Manifold Assembly.....	1
45	N56493	Mounting Plate - Manifold	1
46	S28159	Carriage Bolt - 3/8 x 2 1/2 Lg	4
47	S28159	Carriage Bolt - 3/8 x 2 1/2 Lg	4
48	W-523	Lockwasher - 3/8.....	4
49	W-514	Hex Nut - 3/8.....	4
50	D17958	Spacer - 3/8 ID x 5/8 OD x 1 1/2 Lg	4
51	W-469	Hex Head - 1/4 x 3/4 Lg.....	4
52	N50622	Multi Drive Electronic Control Unit - 4 Channel	1
53	N56733	Transmission Guard.....	1
54	N49783	Decal - Fan/Calibrate.....	1
55	K-5806	90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC	2

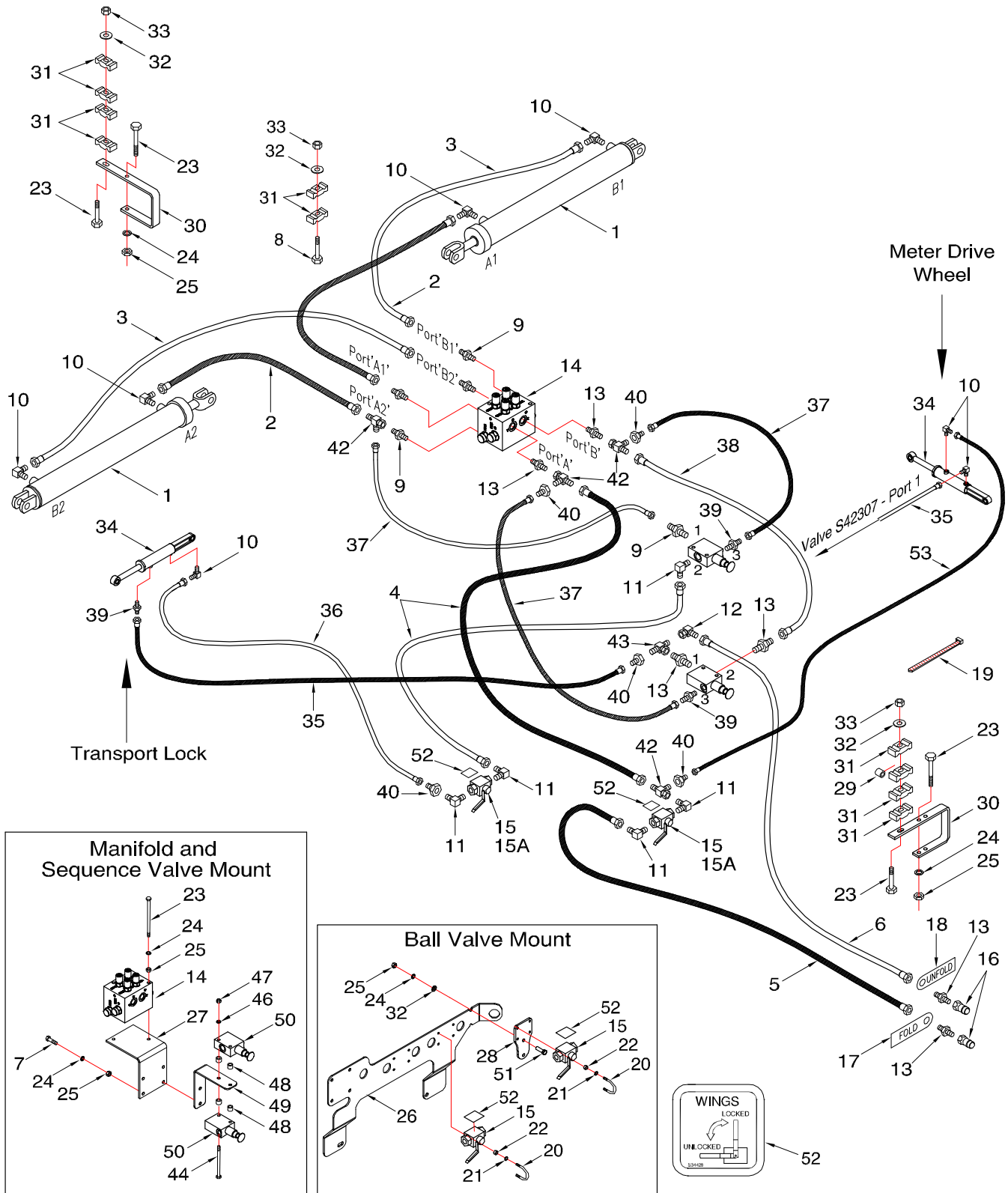
Fan Hydraulics VRT Drive - 3 Tank - 2019 to Present



Fan Hydraulics - VRT Drive - 3 Tank - 2019 to Present

Item	Part No.	Description	Qty
1	N16263	Fan	1
2	N16359	90 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
3	N21189	90 Elbow - Swivel - 1 1/16-12 FJIC x 1 1/16-12 MJIC	2
4	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	2
5	N64050	90 Elbow - 9/16-18 (#06) MJIC x 3/4-16 (#08) MORB	1
6	C14840	Connector - 7/8-14 MJIC x 3/4-16 MORB	3
7	N19337	Connector - 7/8-14 (#10) MJIC x 1 1/16-12 (#12) FJIC	2
8	N49460	Connector - Swivel - 7/8-14 (#10) FJIC x 3/4-16 (#08) MORB	7
9	C-4392	Connector - 7/8-14 (#10) FJIC x 9/16-18 (#06) MJIC	1
10	C15348	Connector - 9/16-18 (#06) MJIC x 3/4-16 (#08) MORB	7
11	N34505	Connector - 7/8-14 (#10) MJIC x 7/8-14 (#10) MORB	6
12	N15990	Connector - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
13	N37845	Ball Valve	1
14	N37849	Connector - 1 1/16-12 MORB x 1 1/16-12 FJIC	1
15	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
16	N16621	Plug - 9/16-18 MORB	1
17	N16399	Check Valve - 7 psi - 1 1/16-12 FORB	1
18	N29372	Hydraulic Motor - Rexroth - 12cc (N25508 Seal Kit) (N25507 Seal Only)	1
19	N31096	45 Elbow - 1 1/16-12 MJIC x 1 1/16-12 MORB	1
20	N19578	45 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	1
21	N29356	Tee - Swivel - (1) - 1 1/16 FJIC x (2) - 1 1/16 MJIC	2
22	N16388	Tee - (2) 1 1/16-12 MJIC x (1) 1 1/16-12 MORB	2
23	C-4393	Tee - (3) 9/16-18 MJIC	1
24	N34443	Male Pioneer Tip - 3/4-16 FORB	3
25	N29962	Tag - Hose - ID - Air Tank - Fan/Auger - Pressure	1
26	N29963	Tag - Hose - ID - Air Tank - Fan/Auger - Return	1
27	N29964	Tag - Hose - ID - Air Tank - Fan/Auger - Case Drain	1
28	W-516	Hex Nut - 1/2	2
29	W-525	Lockwasher - 1/2	2
30	S-1189	Hex Bolt - 1/2 x 13/4 Lg	2
31	N37468	Fan Mounting Plate	1
32	N29319	Hydraulic Motor - Danfoss	3
33	N60258	Manifold Assembly	3
34	S65409	Hyd Hose - 3/8 x 108 Lg - 9/16-18 FJIC Ends	1
35	S65380	Hyd Hose - 3/8 x 45 Lg - #6 9/16-18 FJIC Ends	1
36	S42969	Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC	2
37	S39506	Hyd Hose - 1/4 x 66 Lg W/9/16-18 FJIC	2
38	C26339	Hyd Hose - 1/4 x 120 Lg W/9/16-18 FJIC	1
39	N15991	Hyd Hose - 3/4 x 12 Lg W/1 1/16-12 FJIC	1
40	N37900	Hyd Hose - 3/4 x 18 Lg W/1 1/16-12 FJIC	1
41	N50084	Hyd Hose - 3/4 x 132 Lg - 7/8-14 FJIC x 1 1/16-12 FJIC	2
42	N66211	Valve Flow Control - Single Fan (N29325 Cartridge) (Valve Block Body N67290)	1
43	N49783	Decal - Fan/Calibrate	1

Wing Lift Hydraulics Ground Drive - 2017 to Present



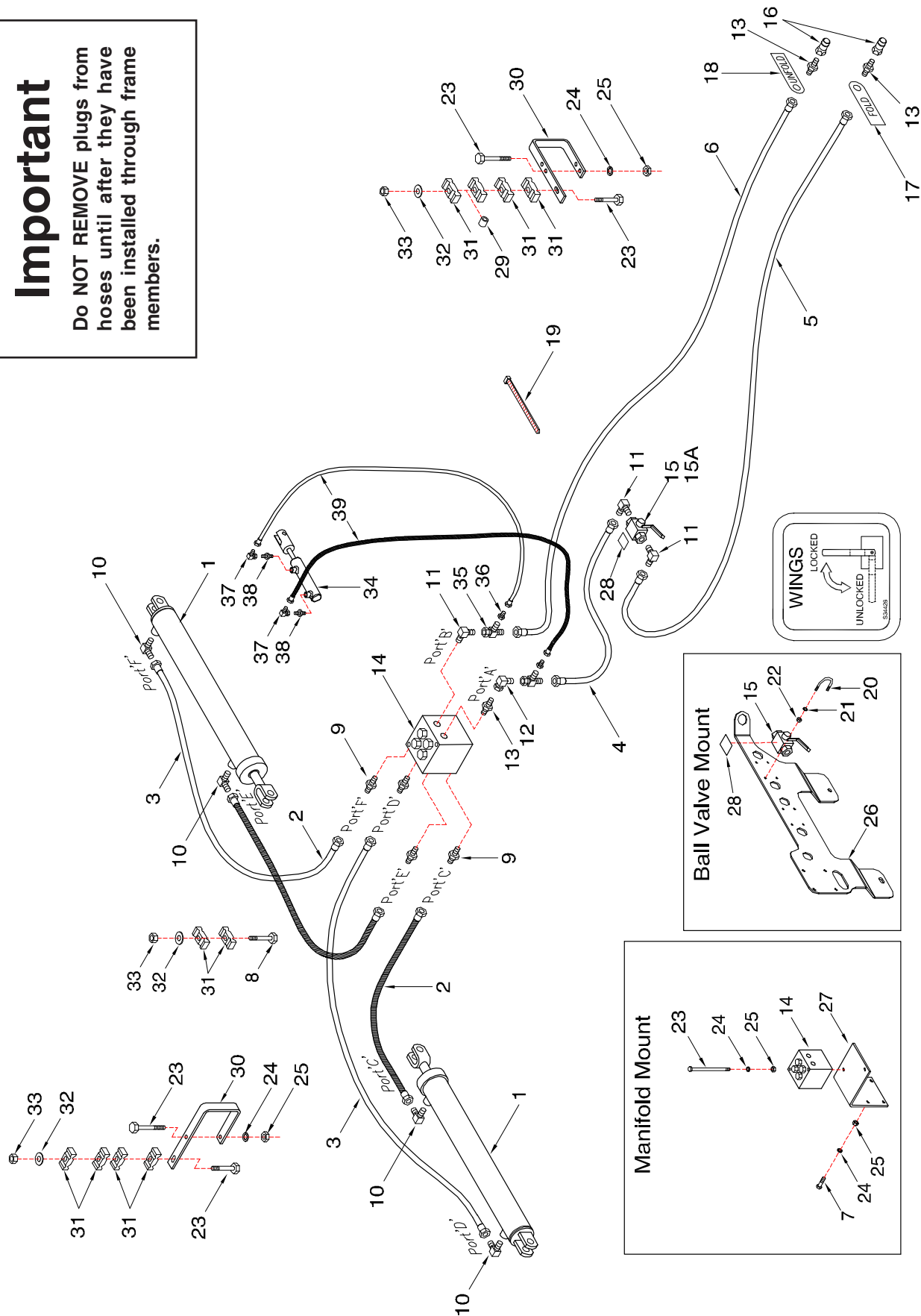
Wing Lift Hydraulics - Ground Drive 2017 to Present

Item	Part No.	Description	Qty
1	C34442	Cylinder - 4 1/2 x 30	2
2	S22406	Hyd. Hose - 1/4 x 72 Lg - #6 9/16-18 FJIC Ends	2
3	S18267	Hyd. Hose - 1/4 x 96 Lg - #6 9/16-18 FJIC Ends	2
4	S39524	Hyd. Hose - 1/2 x 312 Lg - #10 7/8-14 FJIC Ends	2
5	N21721	Hyd. Hose - 1/2 x 180 Lg - #10 7/8-14 FJIC Ends	1
6	S39523	Hyd. Hose - 1/2 x 420 Lg - #10 7/8-14 FJIC Ends	1
7	W-187	Hex Bolt - 3/8 x 1 1/4 Lg	4
8	W-480	Hex Bolt - 3/8 x 2 1/2 Lg	4
9	C15348	Connector - 3/4-16 MORB x 9/16-18 MJIC	6
10	N16143	90 Elbow - 9/16-18 JIC x 9/16-18 MORB	7
11	C24585	90 Elbow - 7/8-14 MJIC x 3/4-16 MORB	5
12	K-5806	90 Elbow - 7/8-14 FJIC x 7/8-14 MJIC	1
13	C14840	Connector - 3/4-16 MORB x 7/8-14 MJIC	7
14	C53849	Manifold - Pressure Compensated Flow Control	1
15	N42880	Valve - 2 Way Ball	1
15A	N42881	Handle - Valve	1
16	N34443	Male Pioneer Tip - 3/4-16 FORB	2
17	C29960	Tag - Hose ID - Wing Lift - FOLD	1
18	C29961	Tag - Hose ID - Wing Lift - UNFOLD	1
19	S13336	Nylon Tie Strap - 1/2 x 28 1/4	12
19A	D-4838	Nylon Tie Strap - 1/2 x 14 1/2	8
19B	D-4951	Nylon Tie Strap - 1/2 x 7 3/8	70
20	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	4
21	W-521	Lockwasher - 1/4	8
22	W-512	Hex Nut - 1/4	8
23	C-3918	Hex Bolt - 3/8 x 5 Lg	8
24	W-523	Lockwasher - 3/8	16
25	W-514	Hex Nut - 3/8	16
26	N48110	Multi-Valve Mounting Plate	1
27	S39565	Mounting Bracket - Valve	1
28	S39546	Mount Plate - Ball Valve	1
29	N16257	Bushing - 0.385 ID x 5/8 OD x 5/8 Lg	2
30	C14411	Oil Line Bracket	4
31	C-4698	Oil Line Clamp	16
32	W-538	Flatwasher - 3/8	6
33	M-3388	Locknut - 3/8	4
34	C51153	Cylinder - 1 3/4 Bore x 4 Stroke	2
35	C26339	Hyd Hose - 1/4 x 120 Lg w/9/16-18 FJIC	1
36	N64110	Hyd Hose - 1/4 x 432 Lg w/9/16-18 FJIC	1
37	N49111	Hyd Hose - 3/8 x 15 Lg w/9/16-18 FJIC	3
38	C-4468	Hyd Hose - 1/2 x 24 Lg w/7/8-14 FJIC	1
39	N29358	Connector - 9/16-18 MJIC x 9/16-18 MORB	3
40	F10384	Connector - 7/8-14 FJIC x 9/16-18 (#06) MJIC	5
41	C-4403	Tee - Swivel - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF)	1
42	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF)	3
43	F24559	Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC (MFM)	1
44	C26820	Hex Bolt - 5/16 x 4 1/2 Lg	2
45	S-1198	Flatwasher - 5/16	4
46	W-522	Lockwasher - 5/16	2
47	W-513	Hex Nut - 5/16	2
48	N19155	Bushing - 3/8 ID x 5/8 OD x 1/2 Lg	4
49	N62238	Mount - Sequence Valves	1
50	S22073	Sequence Valve	2
51	W-475	Hex Bolt - 3/8 x 1 Lg	2
52	S34428	Decal - Wings Lock	2
53	H18267	Hyd Hose - 1/4 x 96 Lg w/9/16-18 FJIC	1

Wing Lift Hydraulics VRT Drive - Prior to 2017

Important

Do NOT REMOVE plugs from hoses until after they have been installed through frame members.



Wing Lift Hydraulics - VRT Drive Prior to 2017

Item	Part No.	Description	Qty
1	C34442	Cylinder - 4 1/2 x 30	2
2	S22406	Hyd. Hose - 1/4 x 72 Lg - #6 9/16-18 FJIC Ends	2
3	S18267	Hyd. Hose - 1/4 x 96 Lg - #6 9/16-18 FJIC Ends	2
4	S39524	Hyd. Hose - 1/2 x 312 Lg - #10 7/8-14 FJIC Ends	1
5	N21721	Hyd. Hose - 1/2 x 180 Lg - #10 7/8-14 FJIC Ends	1
6	S39523	Hyd. Hose - 1/2 x 420 Lg - #10 7/8-14 FJIC Ends	1
7	W-187	Hex Bolt - 3/8 x 1 1/4 Lg	4
8	W-480	Hex Bolt - 3/8 x 2 1/2 Lg	4
9	C15348	Connector - 3/4-16 MORB x 9/16-18 MJIC	4
10	N16143	Elbow 90 deg - 9/16-18 JIC x 9/16-18 MORB	4
11	C24585	Elbow 90 deg - 7/8-14 MJIC x 3/4-16 MORB	3
12	K-5806	Elbow 90 deg - 7/8-14 FJIC x 7/8-14 MJIC	1
13	C14840	Connector - 3/4-16 MORB x 7/8-14 MJIC	3
14	C53849	Manifold - Pressure Compensated Flow Control	1
15	N42880	Valve - 2 Way Ball	1
15A	N42881	Handle - Valve	1
16	N34443	Male Pioneer Tip - 3/4-16 FORB	2
17	C29960	Tag - Hose ID - Wing Lift - FOLD	1
18	C29961	Tag - Hose ID - Wing Lift - UNFOLD	1
19	S13336	Nylon Tie Strap - 1/2 x 28 1/4	12
19A	D-4838	Nylon Tie Strap - 1/2 x 14 1/2	8
19B	D-4951	Nylon Tie Strap - 1/2 x 7 3/8	70
20	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	2
21	W-521	Lockwasher - 1/4	4
22	W-512	Hex Nut - 1/4	4
23	C-3918	Hex Bolt - 3/8 x 5 Lg	8
24	W-523	Lockwasher - 3/8	14
25	W-514	Hex Nut - 3/8	14
26	N48110	Multi-Valve Mounting Plate	1
27	S39565	Mounting Bracket - Valve	1
28	S34428	Decal - Wings Lock	1
29	N16257	Bushing - 0.385 ID x 5/8 OD x 5/8 Lg	2
30	C14411	Oil Line Bracket	4
31	C-4698	Oil Line Clamp	16
32	W-538	Flatwasher - 3/8	4
33	M-3388	Locknut - 3/8	4
34	N47712	Cylinder - 1 x 3 3/8 - Wing Lock	1
35	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC	2
36	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	2
37	S29967	90 Elbow - Swivel - 9/16-18 FJIC x 9/16-18 MJIC	2
38	S34115	Connector - 9/16-18 JIC x 7/16-20 MORB	2
39	S42969	Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC	2

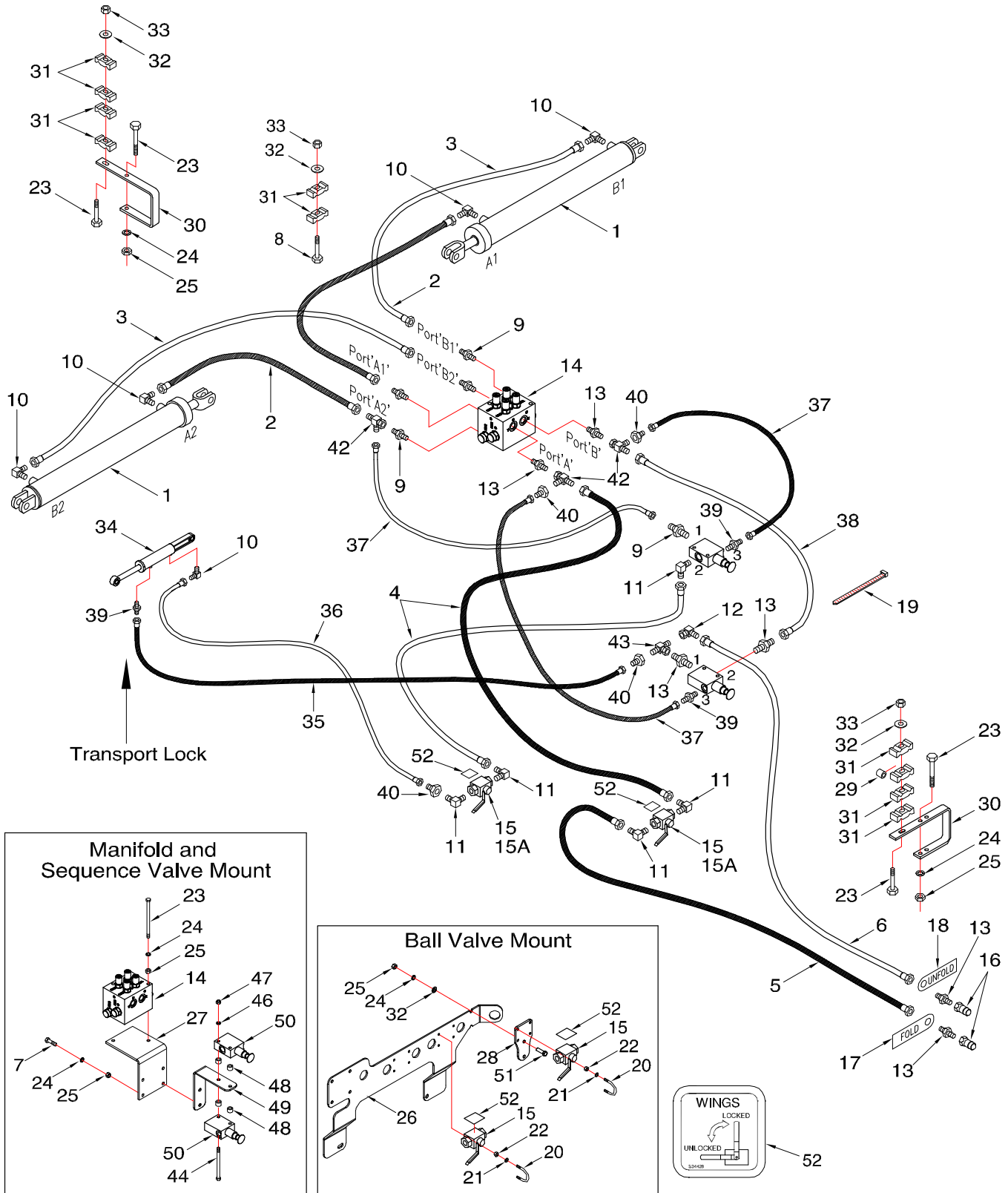
Important

The following safety procedure must be followed to eliminate possible damage to the machine when initially filling wing lift cylinders.

Operate hydraulic on tractor until wings "just start to lift". Then reverse hydraulic on tractor to fill opposite end of cylinders and remove air from the hydraulic system.

Note: This applies to wing lift cylinders only.

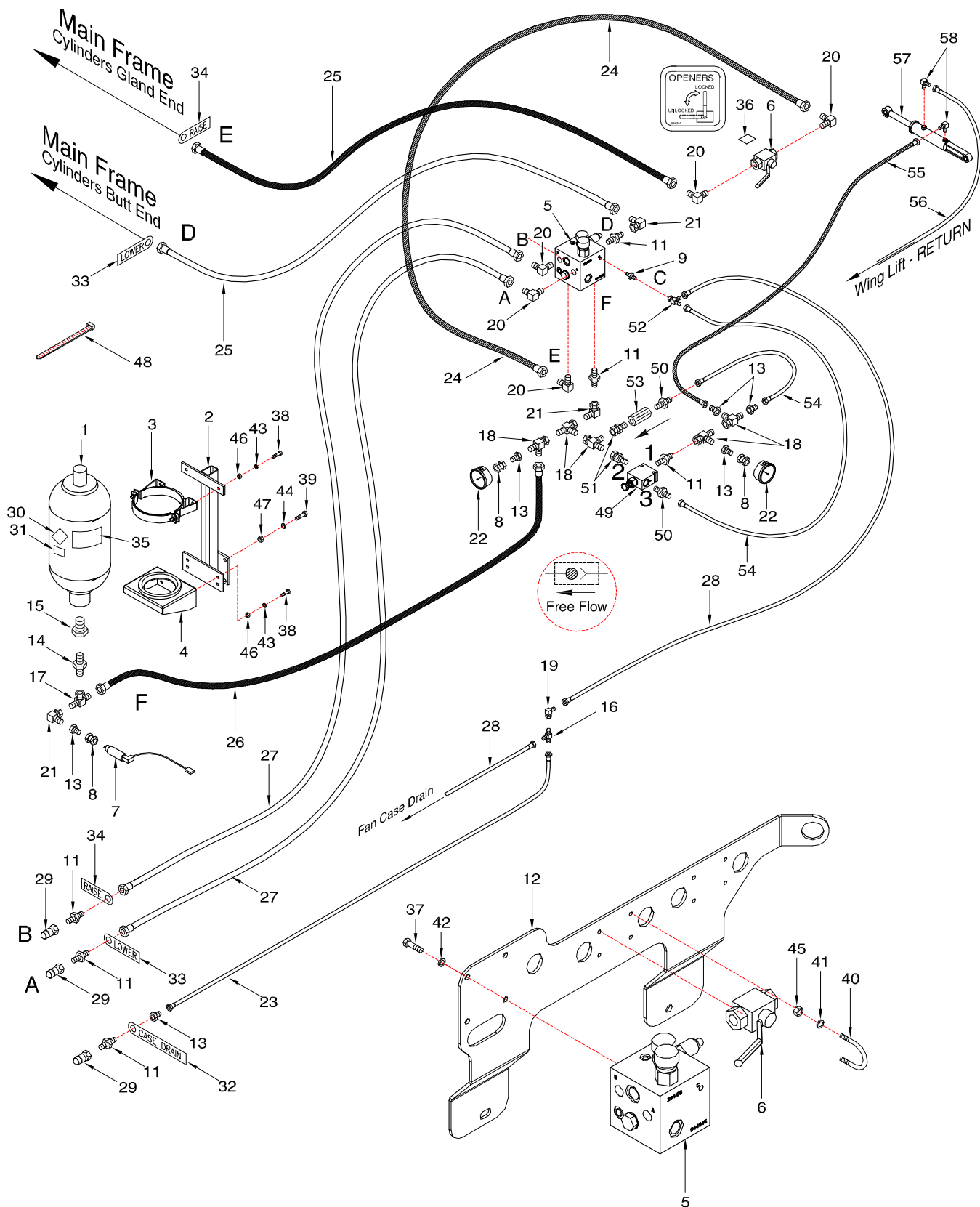
Wing Lift Hydraulics VRT Drive - 2017 to Present



Wing Lift Hydraulics - VRT Drive 2017 to Present

Item	Part No.	Description	Qty
1	C34442	Cylinder - 4 1/2 x 30	2
2	S22406	Hyd. Hose - 1/4 x 72 Lg - #6 9/16-18 FJIC Ends	2
3	S18267	Hyd. Hose - 1/4 x 96 Lg - #6 9/16-18 FJIC Ends	2
4	S39524	Hyd. Hose - 1/2 x 312 Lg - #10 7/8-14 FJIC Ends	2
5	N21721	Hyd. Hose - 1/2 x 180 Lg - #10 7/8-14 FJIC Ends	1
6	S39523	Hyd. Hose - 1/2 x 420 Lg - #10 7/8-14 FJIC Ends	1
7	W-477	Hex Bolt - 3/8 x 1 1/2 Lg	4
8	W-480	Hex Bolt - 3/8 x 2 1/2 Lg	4
9	C15348	Connector - 3/4-16 MORB x 9/16-18 MJIC	6
10	N16143	90 Elbow - 9/16-18 JIC x 9/16-18 MORB	5
11	C24585	90 Elbow - 7/8-14 MJIC x 3/4-16 MORB	5
12	K-5806	90 Elbow - 7/8-14 FJIC x 7/8-14 MJIC	1
13	C14840	Connector - 3/4-16 MORB x 7/8-14 MJIC	7
14	C53849	Manifold - Pressure Compensated Flow Control	1
15	N42880	Valve - 2 Way Ball	2
15A	N42881	Handle - Valve	2
16	N34443	Male Pioneer Tip - 3/4-16 FORB	2
17	C29960	Tag - Hose ID - Wing Lift - FOLD	1
18	C29961	Tag - Hose ID - Wing Lift - UNFOLD	1
19	S13336	Nylon Tie Strap - 1/2 x 28 1/4	12
19A	D-4838	Nylon Tie Strap - 1/2 x 14 1/2	8
19B	D-4951	Nylon Tie Strap - 1/2 x 7 3/8	70
20	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	4
21	W-521	Lockwasher - 1/4	8
22	W-512	Hex Nut - 1/4	8
23	C-3918	Hex Bolt - 3/8 x 5 Lg	8
24	W-523	Lockwasher - 3/8	16
25	W-514	Hex Nut - 3/8	16
26	N48110	Multi-Valve Mounting Plate	1
27	S39565	Mounting Bracket - Valve	1
28	S39546	Mount Plate - Ball Valve	1
29	N16257	Bushing - 0.385 ID x 5/8 OD x 5/8 Lg	2
30	C14411	Oil Line Bracket	4
31	C-4698	Oil Line Clamp	16
32	W-538	Flatwasher - 3/8	6
33	M-3388	Locknut - 3/8	4
34	C51153	Cylinder - 1 3/4 Bore x 4 Stroke	2
35	C26339	Hyd Hose - 1/4 x 120 Lg w/9/16-18 FJIC	1
36	N64110	Hyd Hose - 1/4 x 432 Lg w/9/16-18 FJIC	1
37	N49111	Hyd Hose - 3/8 x 15 Lg w/9/16-18 FJIC	3
38	C-4468	Hyd Hose - 1/2 x 24 Lg w/7/8-14 FJIC	1
39	N29358	Connector - 9/16-18 MJIC x 9/16-18 MORB	3
40	F10384	Connector - 7/8-14 FJIC x 9/16-18 (#06) MJIC	4
41	C-4403	Tee - Swivel - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF)	1
42	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF)	2
43	F24559	Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC (MFM)	1
44	C26820	Hex Bolt - 5/16 x 4 1/2 Lg	2
45	S-1198	Flatwasher - 5/16	4
46	W-522	Lockwasher - 5/16	2
47	W-513	Hex Nut - 5/16	2
48	N19155	Bushing - 3/8 ID x 5/8 OD x 1/2 Lg	4
49	N62238	Mount - Sequence Valves	1
50	S22073	Sequence Valve	2
51	W-475	Hex Bolt - 3/8 x 1 Lg	2
52	S34428	Decal - Wings Lock	2

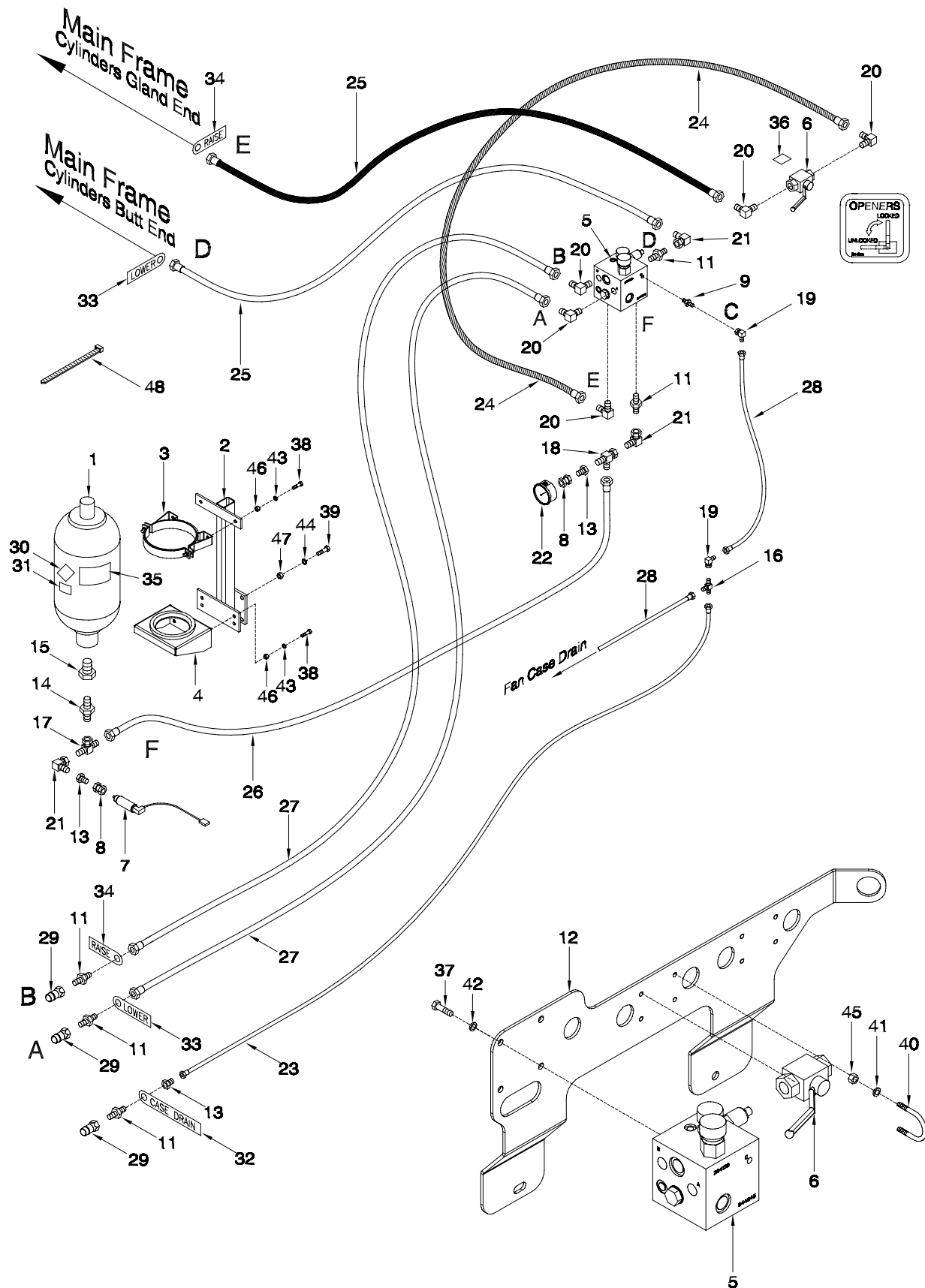
Accumulator Hydraulics Ground Drive



Accumulator Hydraulics - Ground Drive

Item	Part No.	Description	Qty
1	S47094	2.5 Gallon Hydraulic Accumulator - Global Certified	1
2	S42320	Mounting Bracket - Accumulator	1
3	C42313	Clamp - Accumulator	1
4	C42314	Base - Accumulator	1
5	S44945	Manifold Block - Down Pressure	1
6	N42880	Valve - 2 Way Ball	1
6A	N42881	Handle - Valve	1
7	S49545	Pressure Transducer	1
8	S42998	Connector - 1/4 FNPT x 9/16-18 FJIC	3
9	S34115	Connector - 9/16-18 JIC x 7/16-20 MORB	1
10	N34620	Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC	2
11	C14840	Connector - 3/4-16 MORB x 7/8-14 MJIC	6
12	N48110	Multi-Valve Mounting Plate	1
13	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	6
14	C42312	Connector - 7/8-14 MJIC x 1 5/16-14 MORB	1
15	C42311	Connector - 1 7/8-14 MORB x 1 5/16-14 FORB	1
16	C-4393	Tee - (3) 9/16-18 MJIC	1
17	F24559	Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC	1
18	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC	6
19	S29967	90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC	2
20	C24585	90 Elbow - 7/8-14 MJIC x 3/4-16 MORB	6
21	K-5806	90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC	3
22	S48845	Pressure Gauge - 2 1/2 Dia with 1/4NPT	2
23	C26339	Hyd Hose - 1/4 x 120 Lg w/#6 9/16-18 FJIC	1
24	C-4404	Hyd Hose - 1/2 x 36 Lg w/#10 7/8-14 FJIC x 7/8-14 FJIC	1
25	S29841	Hyd Hose - 1/2 x 222 Lg w/#10 7/8-14 FJIC	2
26	C18779	Hyd Hose - 1/2 x 72 Lg w/#10 7/8-14 FJIC	1
27	C26343	Hyd Hose - 1/2 x 162 Lg w/#10 7/8-14 FJIC	2
28	S39506	Hyd Hose - 1/4 x 66 Lg w/#6 9/16-18 FJIC	2
29	N34443	Male Pioneer Tip - 3/4-16 FORB	2
30	S44932	Decal - Compressed Nitrogen - UN1066	1
31	S44930	Decal - Pre-Charged Dry Nitrogen	1
32	S44468	Tag - Hose ID - Reducing Valve - CASE DRAIN	1
33	S29959	Tag - Hose ID - Depth Control - LOWER	1
34	S29958	Tag - Hose ID - Depth Control - RAISE	1
35	C-4262	Decal - Warning - Pressure Hazard	1
36	S44355	Decal - Opener	1
37	W-475	Hex Bolt - 3/8 x 1 Lg	4
38	W-485	Hex Bolt - 1/2 x 1 1/4 Lg	6
39	W-496	Bolt - 5/8 x 2 Lg	2
40	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	2
41	W-521	Lockwasher - 1/4	4
42	W-523	Lockwasher - 3/8	4
43	W-525	Lockwasher - 1/2	6
44	W-526	Lockwasher - 5/8	2
45	W-512	Hex Nut - 1/4	4
46	W-516	Hex Nut - 1/2	6
47	W-517	Hex Nut - 5/8	2
48	S13336	Nylon Tie Strap - 28 1/4 Lg	12
48A	D-4838	Nylon Tie Strap - 1/2 x 14 1/2 Lg	8
49	S42307	Pressure Reducing Valve	1
50	C15348	Connector - 9/16-18 (#06) MJIC x 3/4-16 MORB	2
51	N49460	Connector - Swivel - 7/8-14 (#10) FJIC x 3/4-16 (#08) MORB	2
52	C-4403	Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF)	1
53	N34494	Check Valve w/3/4-16 (#08) FORB	1
54	C-4467	Hyd Hose - 1/4 x 16 Lg w/9/16-18 FJIC	2
55	C26339	Hyd Hose - 1/4 x 120 Lg w/9/16-18 FJIC	1
56	H18267	Hyd Hose - 1/4 x 96 Lg w/9/16-18 FJIC	1
57	C51033	Cylinder - 1 3/4 Bore x 4 Stroke	1
58	N16143	90 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB	2

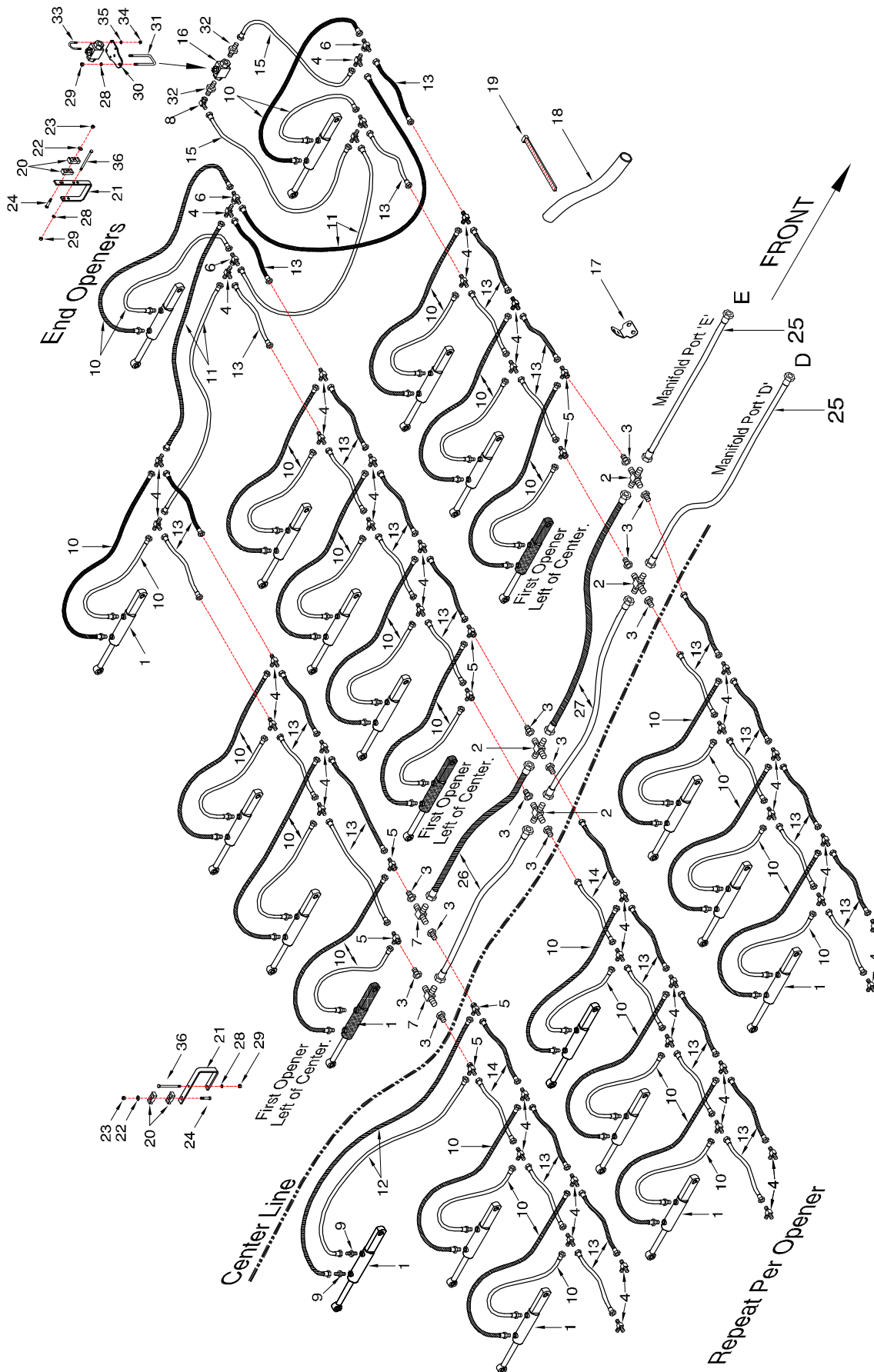
Accumulator Hydraulics VRT



Accumulator Hydraulics - VRT

Item	Part No.	Description	Qty
1	S47094	2.5 Gallon Hydraulic Accumulator - Global Certified	1
2	S42320	Mounting Bracket - Accumulator	1
3	C42313	Clamp - Accumulator	1
4	C42314	Base - Accumulator	1
5	S44945	Manifold Block - Down Pressure	1
6	N42880	Valve - 2 Way Ball	1
6A	N42881	Handle - Valve	1
7	S49545	Pressure Transducer	1
	N58963	Pressure Transducer - Apollo System	
8	S42998	Connector - 1/4 FNPT x 9/16-18 FJIC	2
9	S34115	Connector - 9/16-18 JIC x 7/16-20 MORB	1
10	N34620	Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC	2
11	C14840	Connector - 3/4-16 MORB x 7/8-14 MJIC	4
12	N48110	Multi-Valve Mounting Plate	1
13	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	3
14	C42312	Connector - 7/8-14 MJIC x 1 5/16-14 MORB	1
15	C42311	Connector - 1 7/8-14 MORB x 1 5/16-14 FORB	1
16	C-4393	Tee - (3) 9/16-18 MJIC	1
17	F24559	Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC	1
18	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC	1
19	S29967	90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC	2
20	C24585	90 Elbow - 7/8-14 MJIC x 3/4-16 MORB	6
21	K-5806	90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC	3
22	S48845	Pressure Gauge - 2 1/2 Dia with 1/4NPT	1
23	C26339	Hyd Hose - 1/4 x 120 Lg w/#6 9/16-18 FJIC	1
24	C-4404	Hyd Hose - 1/2 x 36 Lg w/#10 7/8-14 FJIC x 7/8-14 FJIC	1
25	S29841	Hyd Hose - 1/2 x 222 Lg w/#10 7/8-14 FJIC	2
26	C18779	Hyd Hose - 1/2 x 72 Lg w/#10 7/8-14 FJIC	1
27	C26343	Hyd Hose - 1/2 x 162 Lg w/#10 7/8-14 FJIC	2
28	S39506	Hyd Hose - 1/4 x 66 Lg w/#6 9/16-18 FJIC	2
29	N34443	Male Pioneer Tip - 3/4-16 FORB	2
30	S44932	Decal - Compressed Nitrogen - UN1066	1
31	S44930	Decal - Pre-Charged Dry Nitrogen	1
32	S44468	Tag - Hose ID - Reducing Valve - CASE DRAIN	1
33	S29959	Tag - Hose ID - Depth Control - LOWER	1
34	S29958	Tag - Hose ID - Depth Control - RAISE	1
35	C-4262	Decal - Warning - Pressure Hazard	1
36	S44355	Decal - Opener	1
37	W-475	Hex Bolt - 3/8 x 1 Lg	4
38	W-485	Hex Bolt - 1/2 x 1 1/4 Lg	6
39	W-496	Bolt - 5/8 x 2 Lg	2
40	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	2
41	W-521	Lockwasher - 1/4	4
42	W-523	Lockwasher - 3/8	4
43	W-525	Lockwasher - 1/2	6
44	W-526	Lockwasher - 5/8	2
45	W-512	Hex Nut - 1/4	4
46	W-516	Hex Nut - 1/2	6
47	W-517	Hex Nut - 5/8	2
48	S13336	Nylon Tie Strap - 28 1/4 Lg	12
48A	D-4838	Nylon Tie Strap - 1/2 x 14 1/2 Lg	8

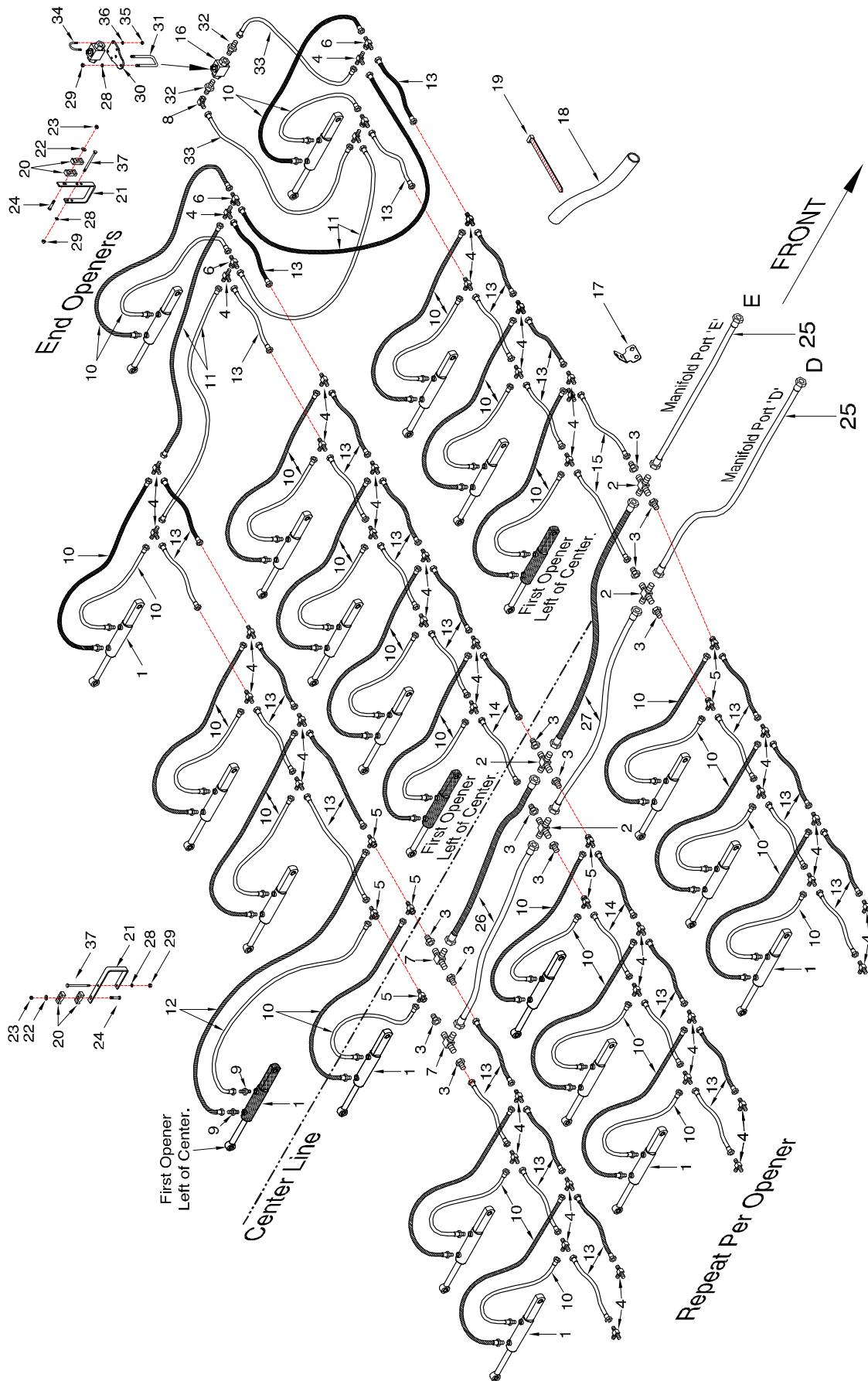
Opener Hydraulics 10 inch Spacing - 25 & 31 Ft Model



Opener Hydraulics - 10 inch Spacing - 25 & 31 Ft Model

Item	Part No.	Description	Qty
1	*****	Cylinder - 1 3/4 Bore x 4 Stroke - (See Opener Section for Details)	AsReq
2	C-4401	Cross - (4) 7/8-14 MJIC.....	4
3	F10384	Reducer - 7/8-14 MJIC x 9/16-18 MJIC.....	12
4	C-4393	Tee - (3) 9/16-18 MJIC.....	64
5	C-4403	Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC.....	8
6	C14901	Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC.....	8
7	C-4394	Tee - (3) 7/8-14 MJIC	2
8	S29967	90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC	2
9	N29358	Connector - 9/16-18 MJIC x 9/16-18 MORB.....	2
10	S44352	Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB	68
11	C16652	Hyd Hose - 1/4 x 60 Lg w/9/16-18 FJIC.....	8
12	S22406	Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC.....	2
13	S42967	Hyd Hose - 3/8 x 30 Lg w/ #6 9/16-18 FJIC.....	60
14	S42969	Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC.....	4
15	C-4552	Hyd Hose - 1/4 x 24Lg w/ #6 9/16-18 FJIC.....	4
16	N42880	Lock Valve	2
17	S47976	Hose Holder - Prior to 2020	AsReq
	S72070	Hose Holder - Quantum Opener - 2020 to Present	
18	R480045	Hose Cover - 2 ID x 8 Lg (Bulk/foot)	AsReq
19	D-4951	Nylon Tie Strap - 1/2 x 7 3/8.....	AsReq
20	C-4698	Oil Line Clamp	12
21	C14411	Oil Line Bracket.....	6
22	W-538	Flatwasher - 3/8	6
23	M-3388	Lock Nut - 3/8.....	6
24	W-480	Hex Bolt - 3/8 x 2 1/2.....	6
25	S29841	Hyd Hose - 1/2 x 222 Lg w/#10 7/8-14 FJIC	2
26	F-4565	Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC.....	2
27	K-5685	Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC.....	2
28	W-523	Lockwasher - 3/8.....	10
29	W-514	Hex Nut - 3/8	10
30	S39546	Mount Plate - Ball Valve	2
31	N15097	U-Bolt - 3/8 x 2 3/8 x 5 Lg	2
32	C15348	Connector - 9/16-18 MJIC x 3/4-16 MORB	4
33	N34319	U-Bolt - 1/4 x 1 1/2 x 2	4
34	W-512	Hex Nut - 1/4.....	8
35	W-521	Lockwasher - 1/4.....	8
36	C-3918	Hex Bolt - 3/8 x 5 Lg.....	6

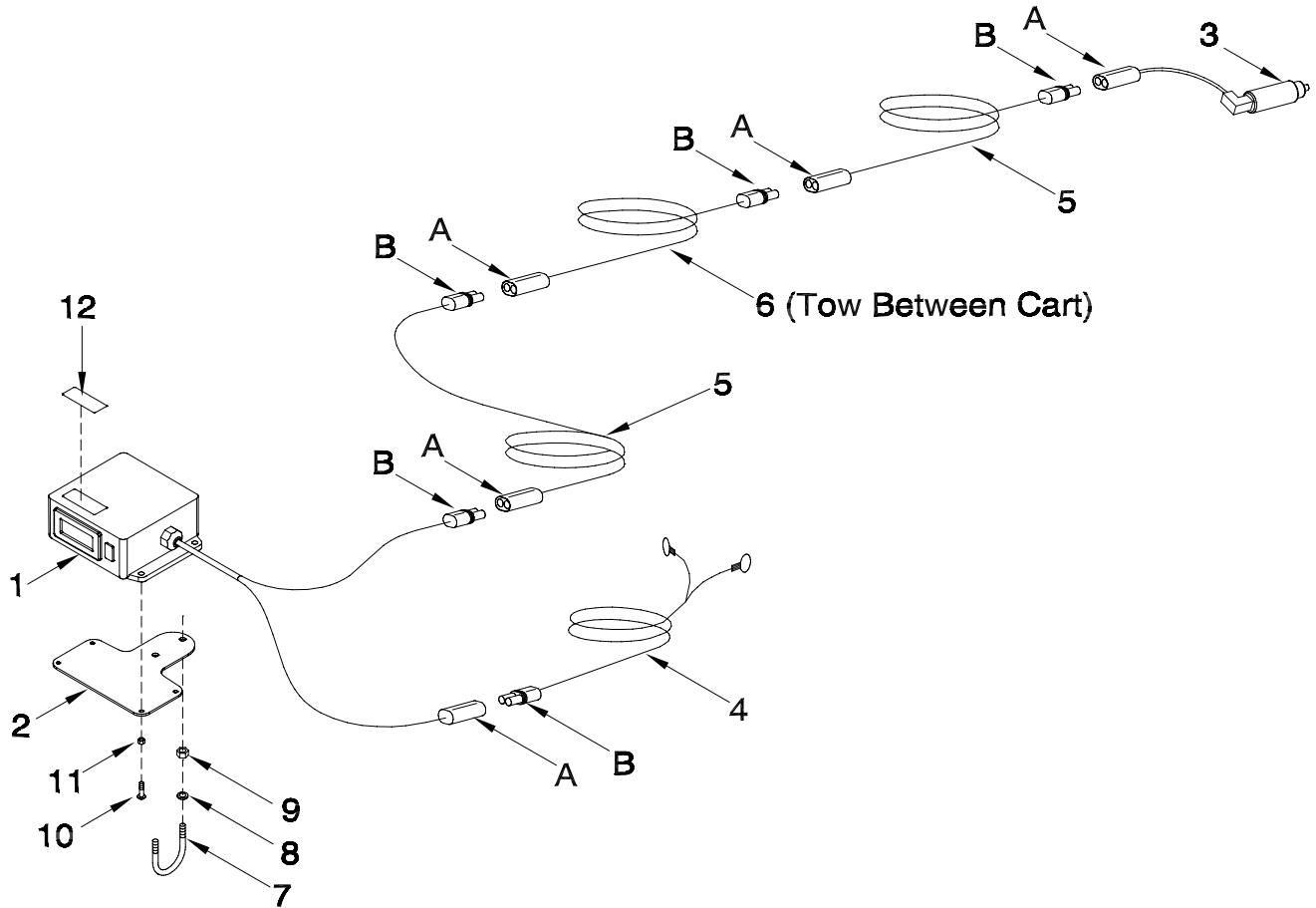
Opener Hydraulics 12 inch Spacing - 25 & 31 Ft Model



Opener Hydraulics - 12 inch Spacing - 25 & 31 Ft Model

Item	Part No.	Description	Qty
1	*****	Cylinder - 1 3/4 Bore x 4 Stroke - (See Opener Section for Details)	AsReq
2	C-4401	Cross - (4) 7/8-14 MJIC.....	4
3	F10384	Reducer - 7/8-14 MJIC x 9/16-18 MJIC.....	12
4	C-4393	Tee - (3) 9/16-18 MJIC.....	54
5	C-4403	Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC.....	8
6	C14901	Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC.....	8
7	C-4394	Tee - (3) 7/8-14 MJIC	2
8	S29967	90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC	2
9	N29358	Connector - 9/16-18 MJIC x 9/16-18 MORB.....	2
10	S44352	Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB	60
11	C16652	Hyd Hose - 1/4 x 60 Lg w/9/16-18 FJIC.....	8
12	S22406	Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC.....	2
13	S42969	Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC.....	52
14	S44353	Hyd Hose - 3/8 x 48 Lg w/ #6 9/16-18 FJIC.....	4
15	S47799	Hyd Hose - 3/8 x 60 Lg w/ #6 9/16-18 FJIC.....	2
16	N42880	Lock Valve	2
17	S47976	Hose Holder - Prior to 2020	AsReq
	S72070	Hose Holder - Quantum Opener - 2020 to Present	
18	R480045	Hose Cover - 2 ID x 8 Lg (Bulk/foot)	AsReq
19	D-4951	Nylon Tie Strap - 1/2 x 7 3/8 Lg.....	AsReq
20	C-4698	Oil Line Clamp	12
21	C14411	Oil Line Bracket.....	6
22	W-538	Flatwasher - 3/8	6
23	M-3388	Locknut - 3/8	6
24	W-480	Hex Bolt - 3/8 x 2 1/2 Lg.....	6
25	S29841	Hyd Hose - 1/2 x 222 Lg w/#10 7/8-14 FJIC	2
26	F-4565	Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC.....	2
27	K-5685	Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC.....	4
28	W-523	Lockwasher - 3/8.....	10
29	W-514	Hex Nut - 3/8	10
30	S39546	Mount Plate - Ball Valve	2
31	N15097	U-Bolt - 3/8 x 2 3/8 x 5 Lg	2
32	C15348	Connector - 9/16-18 MJIC x 3/4-16 MORB	4
33	C-4552	Hyd Hose - 1/4 x 24Lg w/ #6 9/16-18 FJIC.....	4
34	N34319	U-Bolt - 1/4 x 1 1/2 x 2	4
35	W-512	Hex Nut - 1/4.....	8
36	W-521	Lockwasher - 1/4.....	8
37	C-3918	Hex Bolt - 3/8 x 5 Lg.....	6

Opener Hydraulics Digital Gauge



Note: TOPCON option only uses items 3, 5, and 6.

Apollo System does not use any of the above components. See Monitor Section for details.

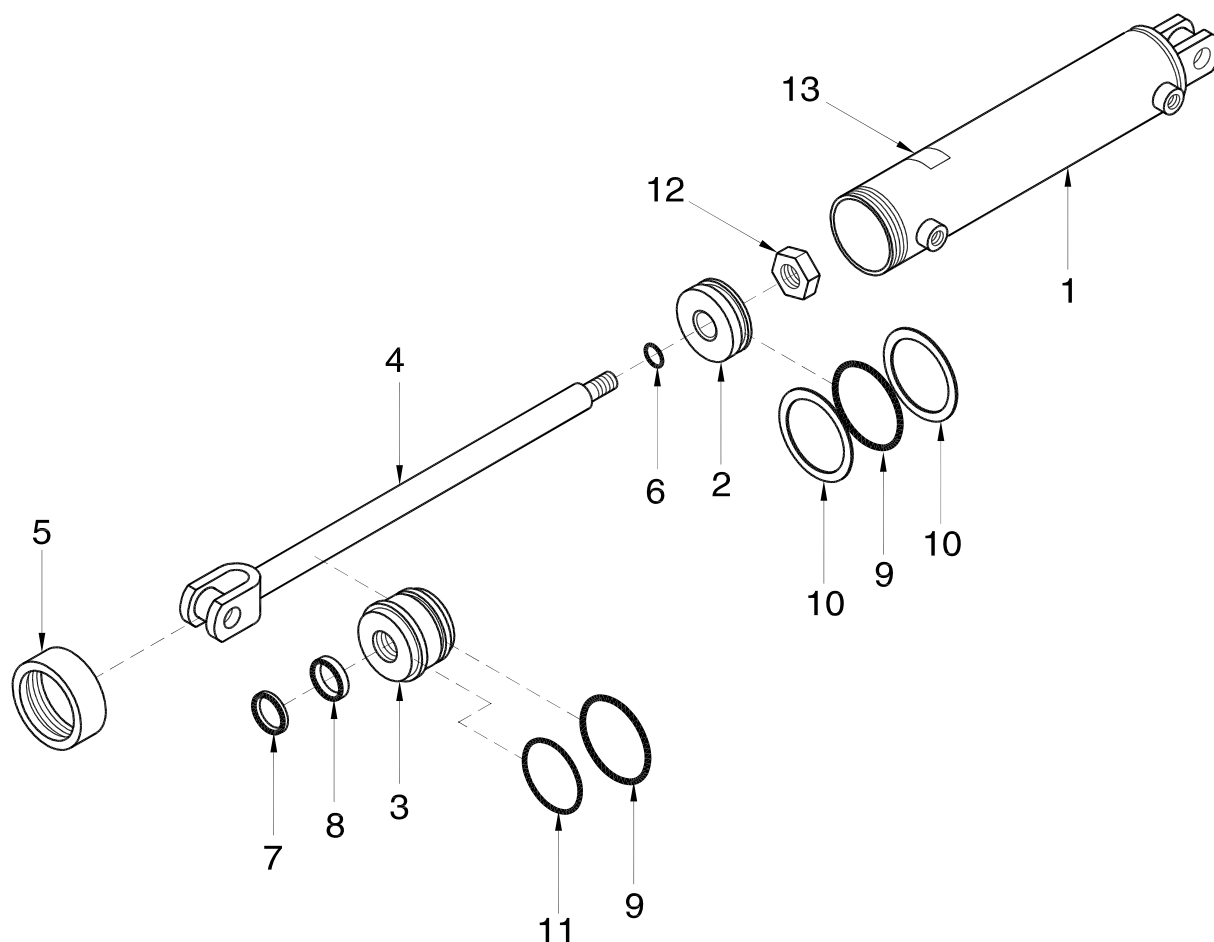
Item	Part No.	Description	Qty
1	S42999	Digital Gauge (Includes item 12).....	1
2	S44350	Mounting Bracket - Digital Gauge	1
3	S49545	Pressure Transducer	1
	N58963	Pressure Transducer - Apollo System (Not included in Kit N46098)	
4	N27609	Power Cable - Monitor	1
5	N37018	Extension Cable - 20 ft Lg.....	2
6	N37020	Extension Cable - 30 ft Lg (Tow Between Air Cart)	1
7	N34319	U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg	1
8	W-521	Lockwasher - 1/4.....	2
9	W-512	Hex Nut - 1/4	2
10	N29486	Machine Screw - #8 x 5/8.....	4
11	N16564	Locknut - #8 - Serrated	4
12	S44464	Decal - Digital Gauge Identification.....	1
	N46098	Kit: Contour Pressure Display (Includes above items)	
		Replacement Connectors	
A	N29384	Weather Pak Connector - BLACK - 2 Pin Plug	
B	N29385	Weather Pak Connector - BLACK - 2 Pin Socket	

Section 6: Hydraulic Cylinders

Section Contents

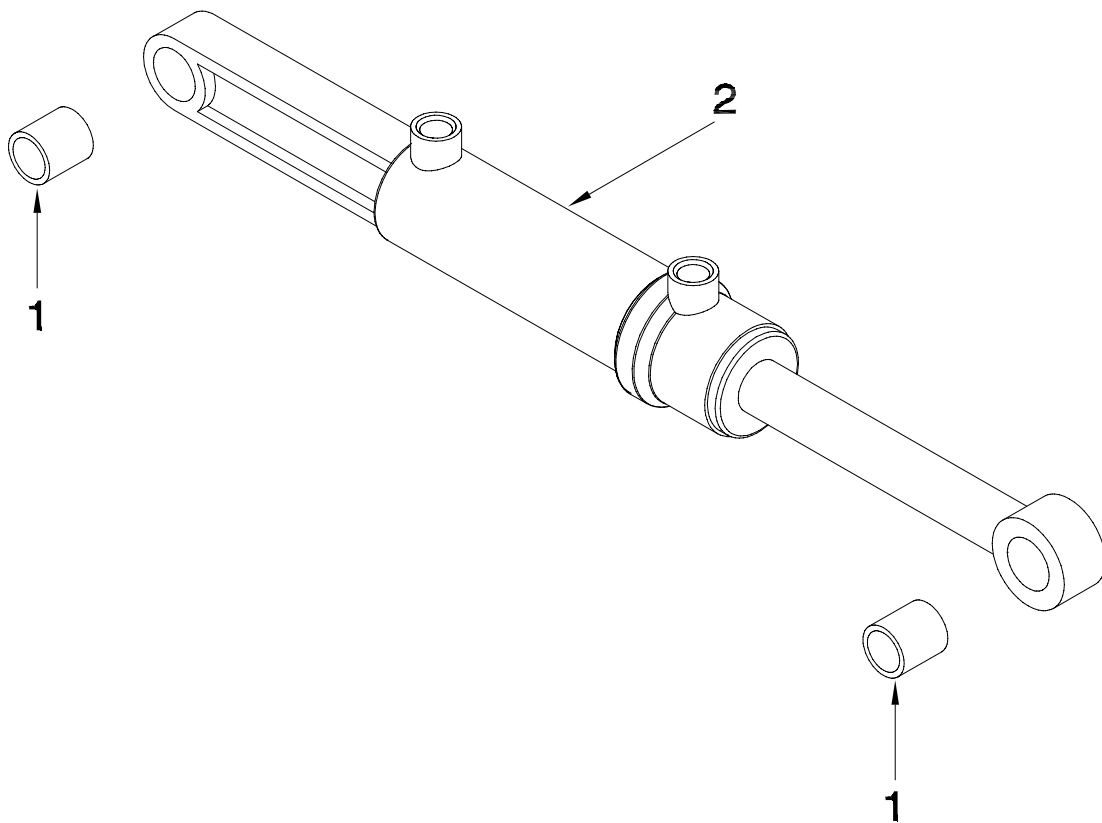
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Hydraulic Cylinders Wing Lift



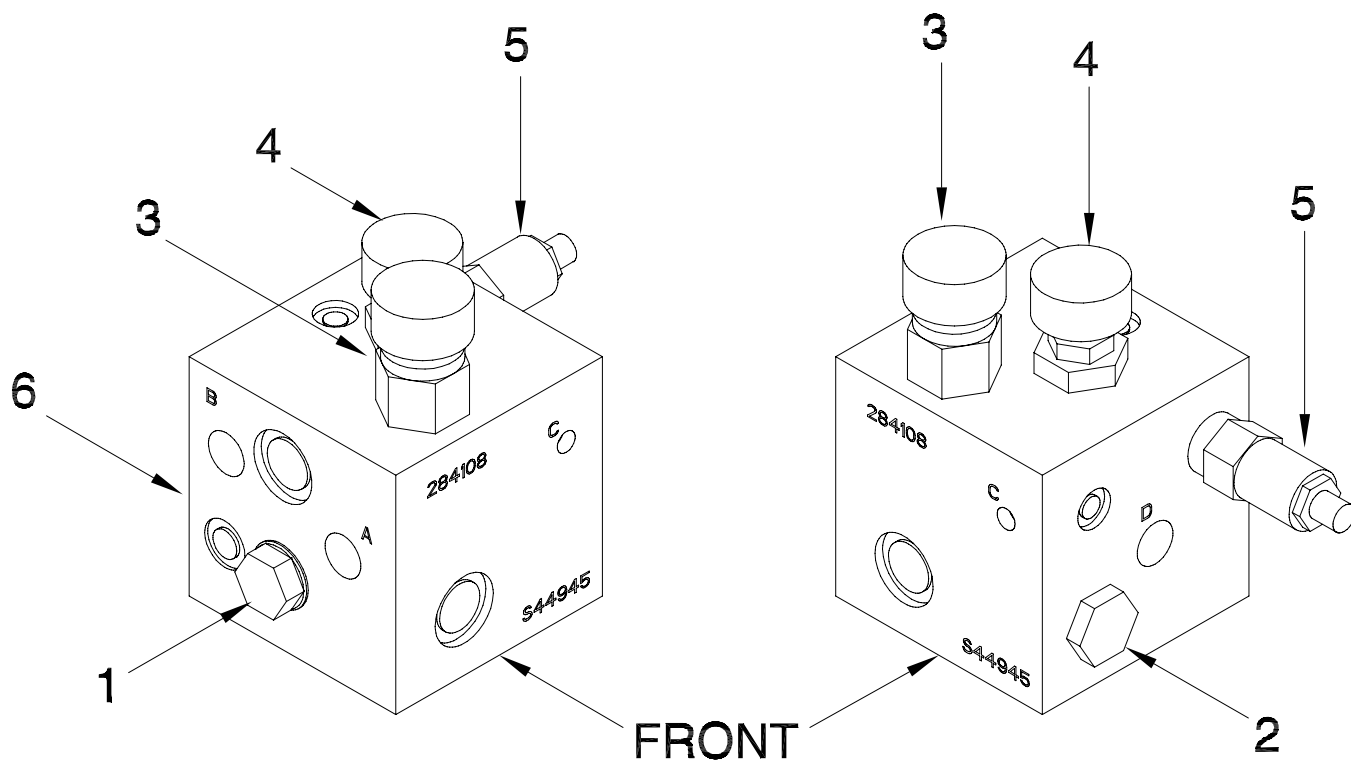
Item	Part No.	Description	Qty
		Wing Lift Cylinder - C34442 - 4 1/2 x 30	
1	C34441	Barrel - 4 1/2 x 30 - 1 1/4 clevis hole.....	1
2	C12836	Piston - 4 1/2 Dia - 1 Shaft.....	1
3	C-2154	Gland - 4 1/2 Dia - 1 3/4 Shaft	1
4	C26190	Cylinder Shaft - 1 3/4 Dia.....	1
5	C-2155	Collar - 4 1/2 Cylinder	1
6	C13282	1 1/8 OD x 1/16 C/S 90D BUNA O-Ring	1
7	C-2136	1 3/4 ID x 3/16 C/S 90D URTN Wiper	1
8	C-2135	1 3/4 ID x 3/8 C/S 90D URTN U-Cup.....	1
9	C-2164	4 1/2 OD x 3/16 C/S 90D BUNA O-Ring	2
10	C15387	Backup Washer - 4 1/2 Dia - #346	2
11	C-2215	3 7/8 OD x 1/16 C/S 70A BUNA-N O-Ring	1
12	C13763	Locknut - 1-14 UNS Unitorque	1
13	C36064	Part # Plate for C34442.....	1
	C34442	Cylinder Assembly (Includes All Above Items)	
	C12849	Seal Kit (Includes Items #6, 7, 8, 9, 10 & 11)	

Hydraulic Cylinders Opener Cylinder



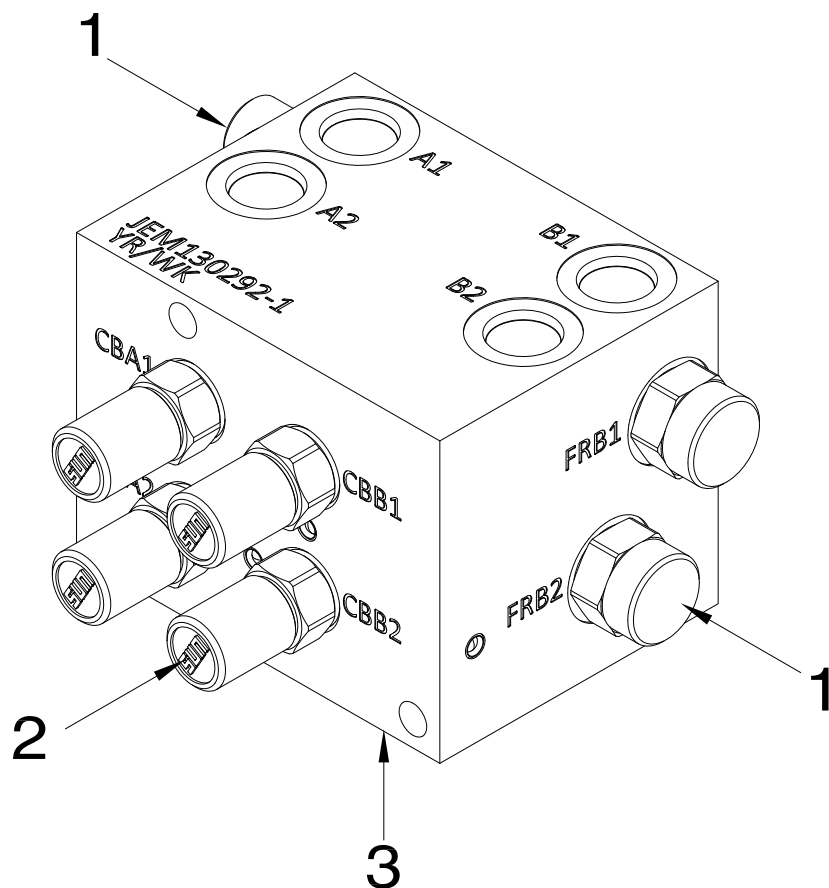
Item	Part No.	Description	Qty
1	S51494	Opener Cylinder - C51033 - 1 3/4 x 4 - retracted length 20.94" - Prior to 2020 Bushing - 0.756/0.759 ID x 1.003/1.005 OD x 1.000 Lg.....	2
2	C51033	Cylinder Assembly (Includes All Above Items)	1
	C51152	Seal Kit	
1	S51494	Work Switch Cylinder - C51153 - 1 3/4 x 4 - retracted length 16.13" - Prior to 2014 Bushing - 0.756/0.759 ID x 1.003/1.005 OD x 1.000 Lg.....	2
2	C51153	Cylinder Assembly (Includes All Above Items)	1
	C51152	Seal Kit	
1	S62987	Opener Cylinder - C64546 - 1 3/4 x 4 - retracted length 14.8125" - 2020 to Present Q2 Bushing - 1 ID x 1 1/8 OD x 1 Lg Nominal size.....	2
2	C64546	Cylinder Assembly (Includes All Above Items)	1
	C71900	Seal Kit	

Hydraulic Cylinders Opener Valve Block



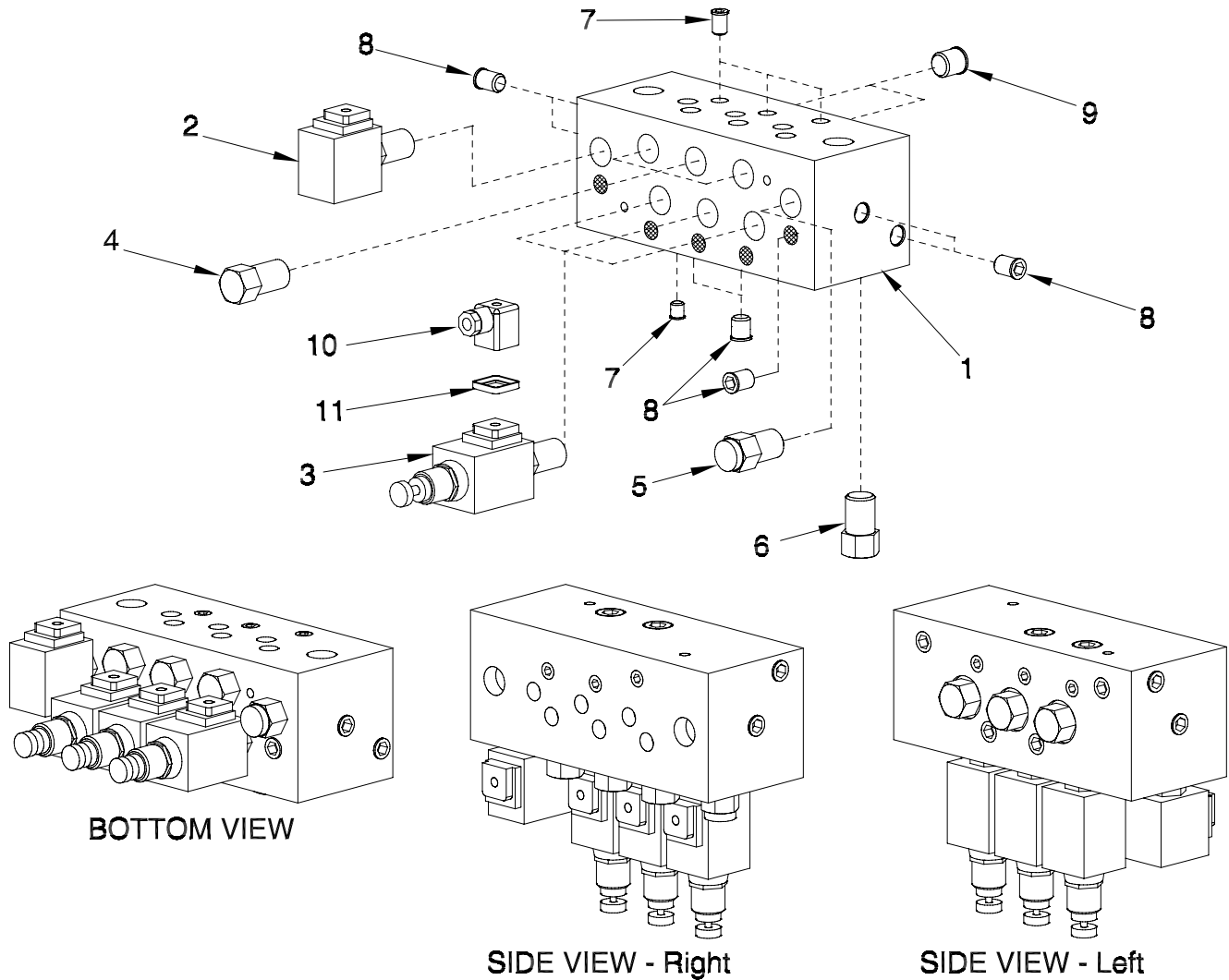
Item	Part No.	Description	Qty
1	S47139	Check Valve Cartridge - Pilot Operated	1
2	S47140	Check Valve Cartridge - Poppet	1
3	S47141	Check Valve Cartridge - Reducing/Relieving Valve.....	1
4	S47142	Cartridge Valve - Needle Valve	1
5	S47143	Cartridge - Pilot Operated - Accumulator Lock Out Valve.....	1
6	S44945	Hydraulic Down Pressure Manifold (Includes All Above Items)	

Hydraulic Cylinders Wing Lift Valve Block



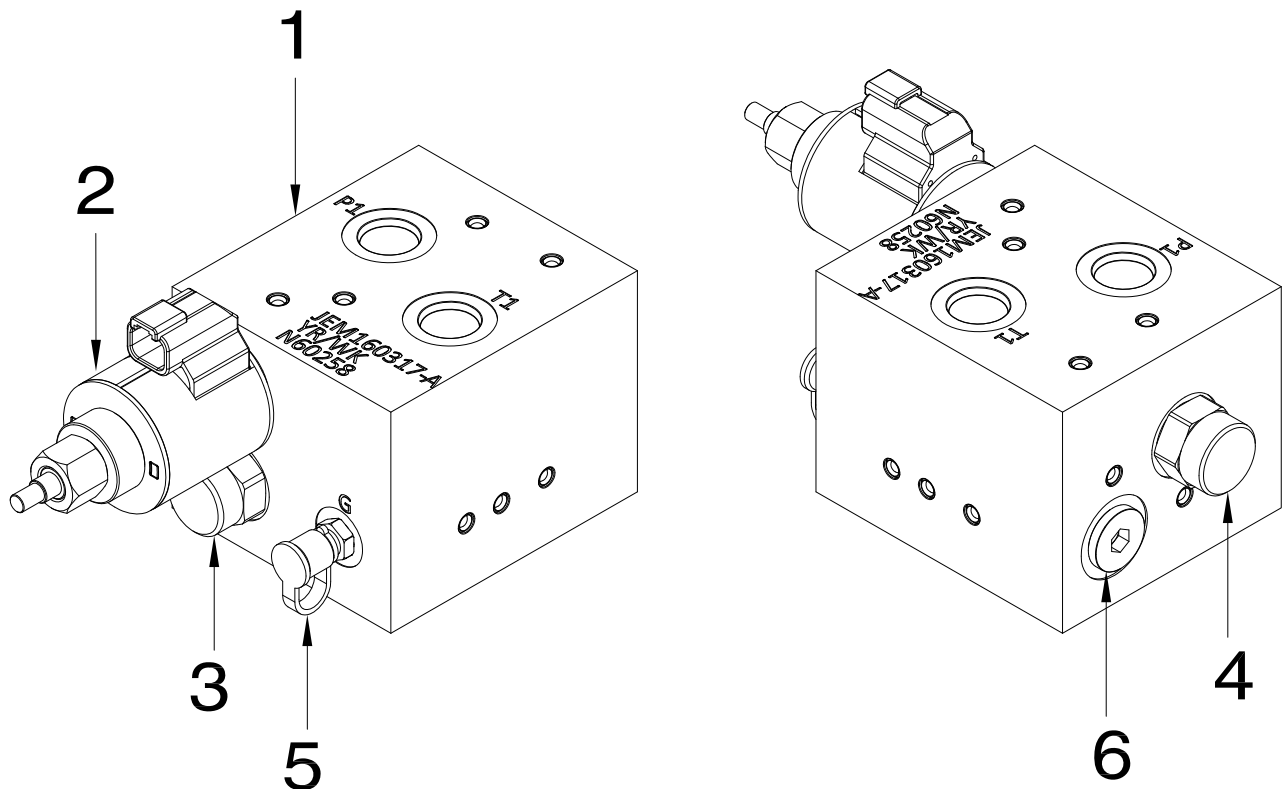
Item	Part No.	Description	Qty
1	C53847	Pressure Compensated Flow Control Cartridge - 5 gpm.....	4
2	C53848	Counterbalance Cartridge - 2700 psi	4
3	C53849	Counterbalance Winglift Manifold (Includes All Above Items)	

Variable Rate System Valve Manifold - 3 Bank - Prior to 2019



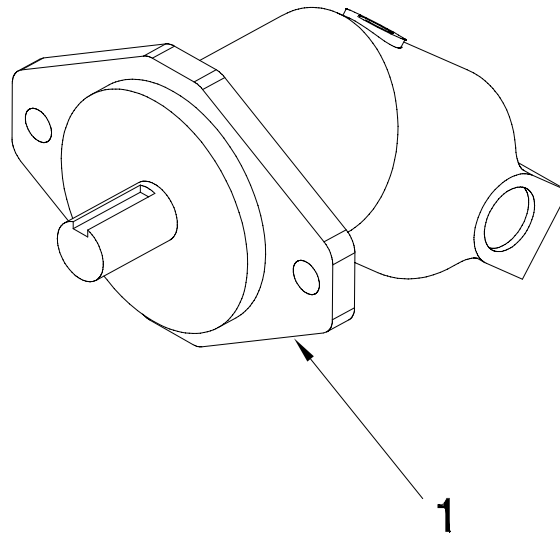
Item	Part No.	Description	Qty
1	N45508	Valve Manifold Block	1
2	N45509	Valve - Dump - Solenoid	1
3	N47440	Valve - Solenoid - Flow Element	3
4	N29324	Valve - Flow Restrictor - Slave	3
5	N29325	Valve - Flow Regulator - Supply	1
6	N29328	Valve - Flow Regulator - Drain	3
7	N45511	Male Plug - 4 SAE Tapered	6
8	N45512	Male Plug - 6 SAE Tapered	13
9	N45513	Male Plug - 8 SAE Tapered	2
10	N29329	DIN Connector - Plug w/Gasket	4
11	N29331	Gasket - DIN Connector	4
	N45505	Valve Manifold Assembly (Includes above items except 10 & 11)	

Variable Rate System Valve Manifold - 2019 to Present



Item	Part No.	Description	Qty
1	N65656	Valve Manifold Block	1
2	N65655	Proportional Metering Valve - (Includes Coil N65654) SP10-24P-0-N-00.....	1
3	N65653	Pressure Compensator Valve EC10-40-0-N-80	1
4	N65652	Flow Regulator FR10-20F-0-N-0.1	1
5	N64583	Coupler - Test Port - 7/16-20 (#4) MORB	1
6	*****	Plug -MORB 515-08	
	N60258	Valve Manifold Assembly (Includes above items)	

Fan Orbit Motor



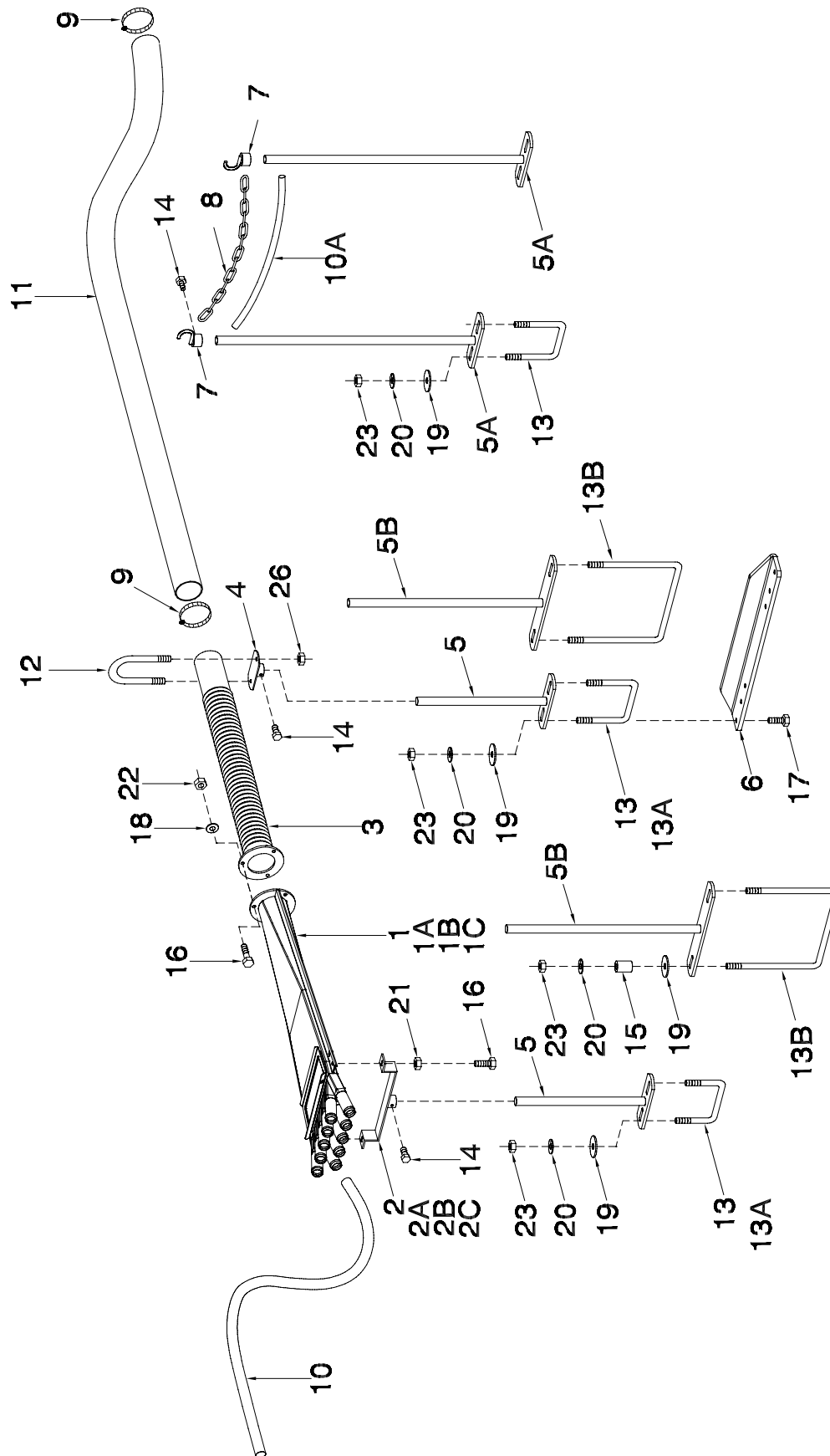
Item	Part No.	Description	Qty
1	N29372	Rexroth Orbit Motor - 12cc - 20mm shaft	1
	N44690	Parker Orbit Motor - 12cc - 20mm shaft	1
	N25507	Shaft Seal Only for above Rexroth Motor	1
	N25508	Seal Kit for above Rexroth Motor	1
	N45040	Shaft Seal Only for above Parker Motor	1
	N45035	Seal Kit for above Parker Motor	1

Section 7: Distribution

Section Contents

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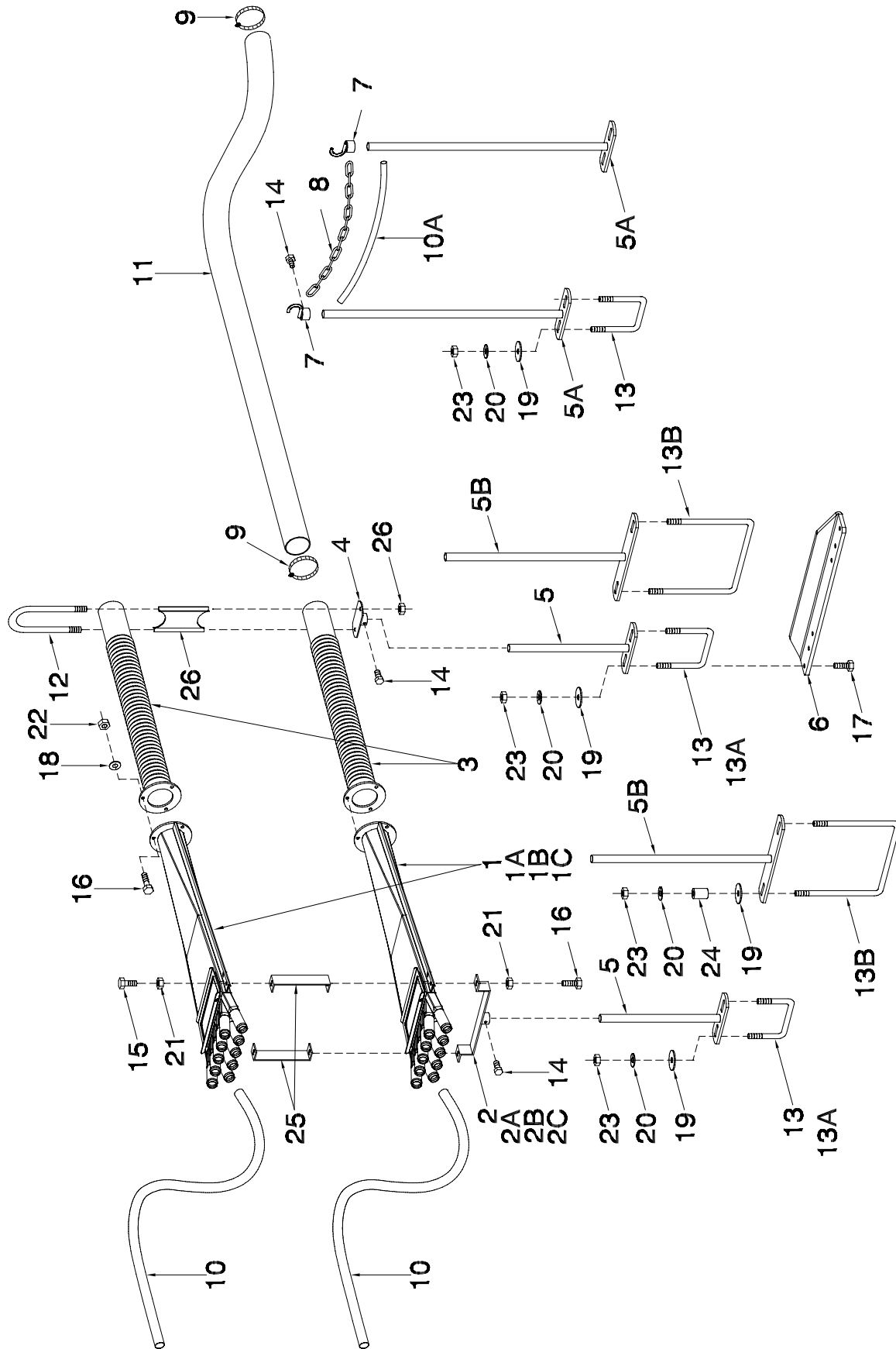
Distribution Single Shoot Tow Between - 25 Ft and 31 Ft



Distribtion - Single Shoot Tow Between - 25 Ft and 31 Ft

Item	Part No.	Description	No: Used			
			25 ft		31 ft	
			10	12	10	12
1	N42274	Divider Assembly - 11 Outlet	-	-	-	-
1A	N31190	Divider Assembly - 10 Outlet	-	-	-	-
1B	N31189	Divider Assembly - 9 Outlet	-	1	-	-
1C	N31188	Divider Assembly - 8 Outlet	2	2	1	3
1D	N31187	Divider Assembly - 7 Outlet	2	-	4	1
2	N40544	Support - 11 Outlet	-	-	-	-
2A	N19406	Support - 10 Outlet	-	-	-	-
2B	N15595	Support - 9 Outlet	-	1	-	-
2C	N15107	Support - 8 Outlet	2	2	1	3
2D	N15594	Support - 7 Outlet	2	-	4	1
3	N15135	Pipe - Corr Diff - Divider Head	4	3	5	4
4	N15102	Support - Rear	4	3	5	4
5	N15105	Support - Bottom - Rod 12"	8	4	8	8
5A	N19531	Support - Bottom - Rod 24"	2	2	2	2
5B	N45694	Support - Wide - Bottom - Rod 14"	-	2	2	-
6	S44308	Extension Bracket - Head Support	4	2	2	4
7	N19717	Hook - Chain	2	2	2	2
8	N19448	Chain - 80 Link	1	1	1	1
9	N11905	Hose Clamp - HS-44 - 2 1/2	16	12	20	16
10	R480034	Hose - .929 ID x 1.169 OD/ft (75 ft roll)	375	300	450	375
10A	R480034	Hose - .929 ID x 1.169 OD/ft (75 ft roll)	1.5 ft	1.5 ft	1.5 ft	1.5 ft
11	R480055	Hose - 2 1/2 ID/ft (100 ft rolls)	75	50	100	75
12	N15096	U-Bolt - 1/4 x 2.5 x 3 1/4 lg	4	3	5	4
13	N15098	U-Bolt - 3/8 x 4 x 5	6	4	6	6
13A	N15097	U-Bolt - 3/8 x 2 x 5	4	2	4	4
13B	N40715	U-Bolt - 3/8 x 8 x 9 3/4	-	2	2	-
14	N24396	Setscrew - 1/4 x 1/2	10	8	12	10
15	N11750	Bushing - 0.385 ID x 0.625 OD x 1 1/16 Lg	-	4	4	-
16	W-469	Hex Bolt - 1/4 x 3/4 Lg	20	15	25	20
17	W-187	Hex Bolt - 3/8 x 1 1/4 Lg	8	4	4	8
18	W-521	Lockwasher - 1/4	12	9	15	12
19	D-5579	Flatwasher - 3/8	20	16	24	20
20	W-523	Lockwasher - 3/8	28	24	28	28
21	D-5277	Serrated Locknut - 1/4	16	12	20	16
22	W-512	Hex Nut - 1/4	12	9	15	12
23	W-514	Hex Nut - 3/8	28	20	28	28

Distribution Dual Shoot Tow Between - 25 Ft and 31 Ft



Distribution - Dual Shoot Tow Between - 25 Ft and 31 Ft

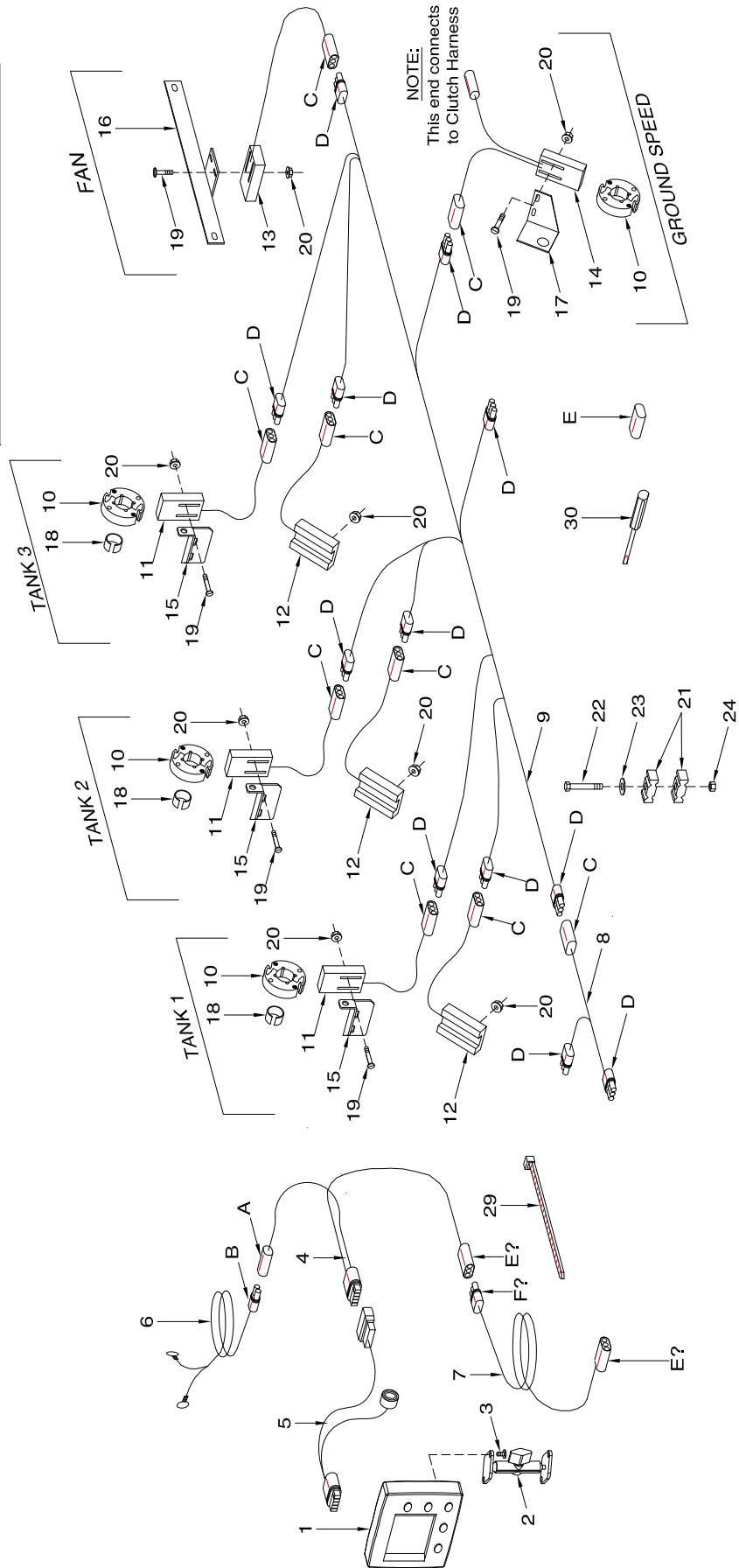
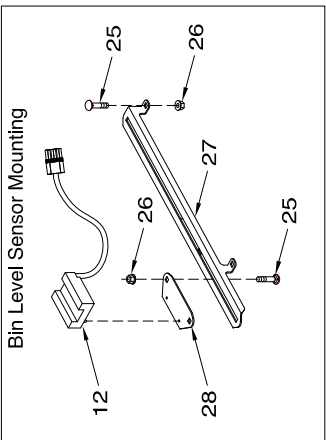
Item	Part No.	Description	No: Used			
			25 ft		31 ft	
			10	12	10	12
1	N42274	Divider Assembly - 11 Outlet	-	-	-	-
1A	N31190	Divider Assembly - 10 Outlet	-	-	-	-
1B	N31189	Divider Assembly - 9 Outlet	-	2	-	-
1C	N31188	Divider Assembly - 8 Outlet	4	4	2	6
1D	N31187	Divider Assembly - 7 Outlet	4	-	8	2
2	N40544	Support - 11 Outlet	-	-	-	-
2A	N19406	Support - 10 Outlet	-	-	-	-
2B	N15595	Support - 9 Outlet	-	1	-	-
2C	N15107	Support - 8 Outlet	3	2	1	3
2D	N15594	Support - 7 Outlet	1	-	4	1
3	N15135	Pipe - Corr Diff - Divider Head	8	6	10	8
4	N15102	Support - Rear	4	3	5	4
5	N15105	Support - Bottom - Rod 12"	8	6	8	8
5A	N19531	Support - Bottom - Rod 24"	2	2	2	2
5B	N45694	Support - Wide - Bottom - Rod 14"	-	2	2	-
6	S44308	Extension Bracket - Head Support	4	2	2	4
7	N19717	Hook - Chain	2	2	2	2
8	N19448	Chain - 80 Link	1	1	1	1
9	N11905	Hose Clamp - HS-44 - 2 1/2	32	24	40	32
10	R480034	Hose - .929 ID x 1.169 OD/ft (75 ft roll)	675	600	825	675
10A	R480034	Hose - .929 ID x 1.169 OD/ft (75 ft roll)	1.5 ft	1.5 ft	1.5 ft	1.5 ft
11	R480055	Hose - 2 1/2 ID/ft (100 ft rolls)	150	100	200	150
12	N16504	U-Bolt - 1/4 x 2 9/16 x 9 1/2 Lg	8	3	9	8
13	N15098	U-Bolt - 3/8 x 4 x 5	6	4	6	6
13A	N15097	U-Bolt - 3/8 x 2 x 5	4	2	4	4
13B	N40715	U-Bolt - 3/8 x 8 x 9 3/4	-	2	2	-
14	N24396	Setscrew - 1/4 x 1/2	8	6	12	8
15	K-3830	Hex Bolt - 1/4 x 1/2 Lg	12	10	14	12
16	W-469	Hex Bolt - 1/4 x 3/4 Lg	32	24	40	32
17	W-187	Hex Bolt - 3/8 x 1 1/4 Lg	8	4	4	8
18	W-521	Lockwasher - 1/4	24	18	30	24
19	D-5579	Flatwasher - 3/8	20	16	24	20
20	W-523	Lockwasher - 3/8	28	16	28	28
21	D-5277	Serrated Locknut - 1/4	24	18	30	24
22	W-512	Hex Nut - 1/4	24	18	30	24
23	W-514	Hex Nut - 3/8	28	20	28	28
24	N11750	Bushing - 0.385 ID x 0.625 OD x 1 1/16 Lg	-	4	4	-
25	N16689	Bracket Front - Dual Shoot Heads	8	6	10	8
26	N16507	Spacer - Rear - Dual Shoot Heads	4	3	5	4

Section 8: Monitors

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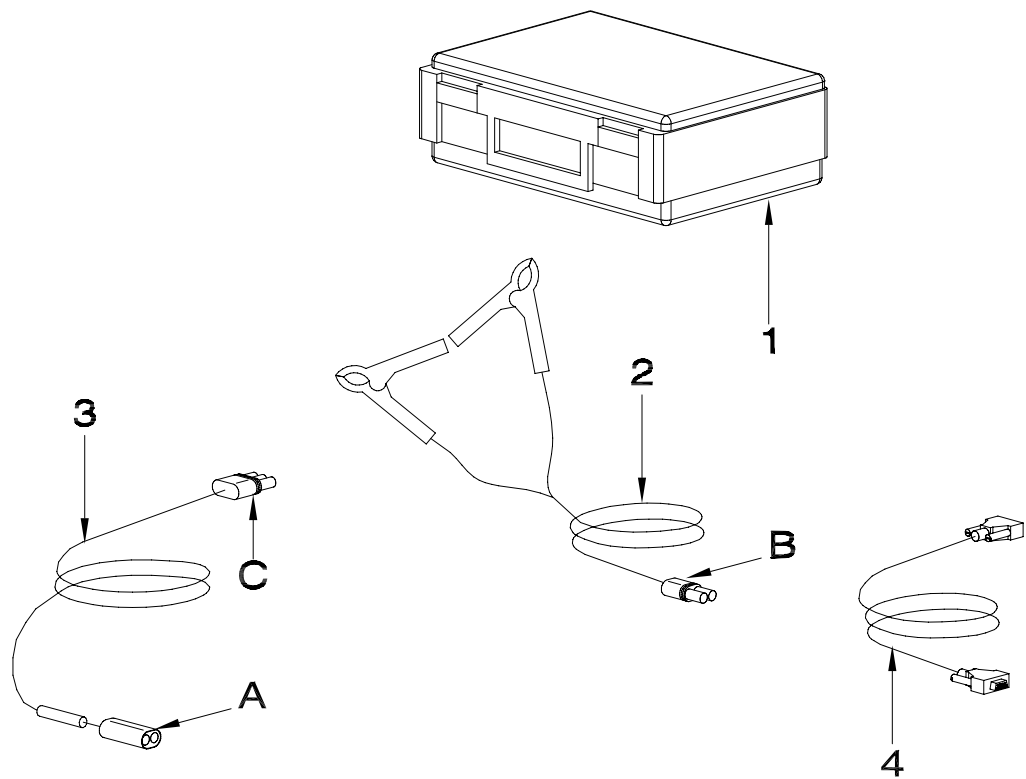
Monitor - Ground Drive Version 3 Monitor & Blockage Module



Monitor - Version 3 Monitor and Blockage Module			
Item	Part No.	Description	Qty
		Monitor Assembly	
1	N44049	Monitor - Version 3 - NEW.....	1
	N44049R	Monitor - Version 3 - REBUILT	
2	N45644	Monitor Mount.....	1
	N45645	Mounting Arm.....	1
	N45646	Bar Mount w/Ubolt	1
3	N44265	Machine Screw - #10-32 x 1/2.....	2
4	N44253	Power Cable - VMD Monitor.....	1
5	N44264	Alarm and Cable Assembly - Optional	1
	N44256	Alarm.....	1
	N44255	Adaptor Cable	
6	N27609	Power Cable - Monitor.....	1
7	N32470	Wire - Monitor Extension - 21ft (Weather Pak)	1
8	N37341	Harness - Monitor - Extension.....	1
9	N36199	Harness - Monitor	1
10	N16471	Reed Switch Actuator - 4 Magnet.....	4
11	N27617	Reed Switch	3
12	N27616	Sensor - Bin Level c/w Gasket	3
13	N27618	Magnetic Sensor - Fan.....	1
14	N27619	Reed Switch - Ground.....	1
15	N36405	Sensor Mount - Metershaft - Main.....	3
16	N37809	Sensor Mount - 17 Dia Fan	1
17	N27621	Sensor Mount - Main Switch - Ground	1
18	N19599	Bushing - Spacer	3
19	N16563	Machine Screw - #8 - 32 UNC x 1 1/4 Lg.....	10
20	N16564	Serrated Locknut - #8 - 32 UNC.....	13
21	C-4698	Nylon Clamp	2
22	W-479	Hex Head Bolt - 3/8 x 2 1/4 Lg.....	1
23	W-538	Flatwasher - 3/8	1
24	M-3388	Locknut - 3/8	1
25	D-5259	Carriage Head Bolt - 5/16 x 3/4 Lg.....	6
26	D-5278	Serrated Nut - 5/16.....	6
27	N40899	Adjustment Plate	1
28	N31790	Base Plate.....	1
29	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	1
30	N27625	Assembly Tool - Packard Connector.....	1
		Wire Groument Components	
	N56748	Bimed Locknute - Per Tank.....	1
	N56749	Bimed Cable Gland - Per Tank	1
	N56750	M-16 Washer - Nitrile Rubber - Per Tank	1

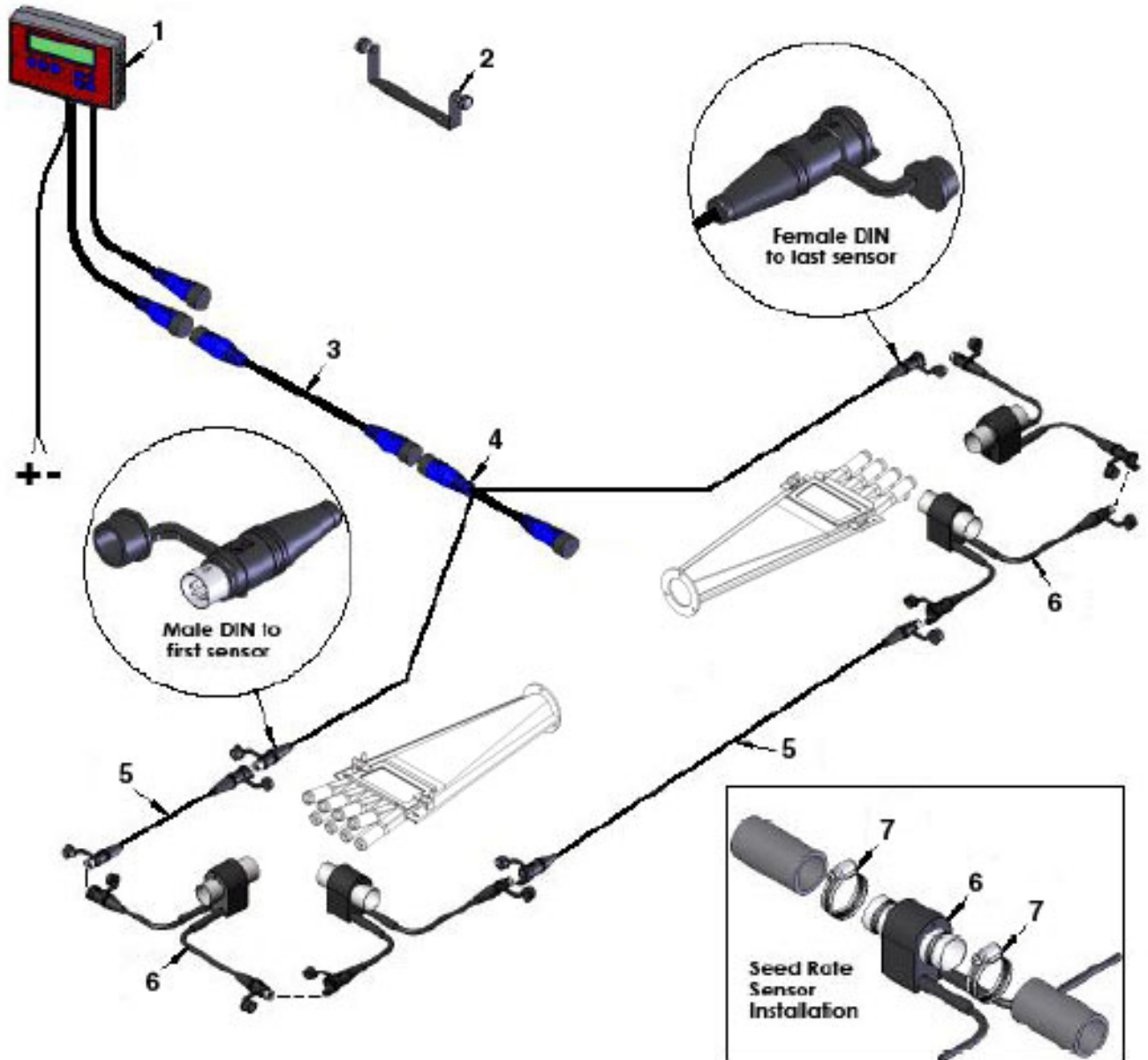
Monitor - Ground Drive

FTU - Field Test Unit



Item	Part No.	Description	Qty
FTU - Field Test Unit			
1	N27119	FTU - Field Test Unit.....	1
2	N32492	Power Cable - FTU - 10 ft - Test Clip	1
3	N32491	Power Cable - 3 ft - Main.....	1
4	N32494	Adaptor Cable - FTU - for PC.....	1
5	N34177	FTU - Operation Manual (Not Shown)	1
Replacement Connectors			
A	N29384	Weather Pak Connector - BLACK - 2 Pin Plug (Shroud)	
B	N29385	Weather Pak Connector - BLACK - 2 Pin Socket (Tower)	
C	N27614	Weather Pak Connector - BLACK - 3 Pin Socket (Tower)	

Monitor AGTRON - Blockage System



Item	Part No:	Description	No. Used	
			ART100	ART260
1	N47469	Agtron ART100 monitor	1	-
1A	N47461	Agtron ART260 monitor	-	1
2	*****	Monitor Mounting Bracket Kit.....	1	1
3	N47463	Extension Cable - 10ft (3m)	2	4
	N47464	Extension Cable - 20ft (6m)	1	2
4	N47462	'Y' Cable.....	1	2
5	N47465	Sensor Loop Cable - 2ft (0.6m)	-	-
	N47466	Sensor Loop Cable - 4ft (1.2m)	-	-
	N47467	Sensor Loop Cable - 10ft (3m)	6	12
	N47468	Sensor Loop Cable - 20ft (6m)	2	4
6	N47471	Sensor - Optical (24mm)	AsReq	AsReq
	N47472	Sensor - Optical (30mm)	AsReq	AsReq
7	N11470	Hose Clamp - HS-20	AsReq	AsReq
	N47470	Kit - ART100 Blockage Monitor (Includes 1, 2 to 5)		
	N47460	Kit - ART260 Blockage Monitor (Includes 1A to 5)		

Variable Rate System X20 - TopCon System



1 - A3745 Morris X20 Console



2- A1258 Seed Rate Interface



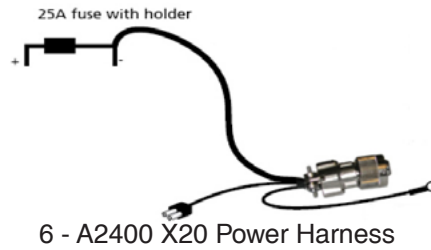
3 - MDECU



4 - A1771 Run-Reset Box
33 - Mount Bracket
34 - Screw #10



5 - A1734 Comms Cable



6 - A2400 X20 Power Harness



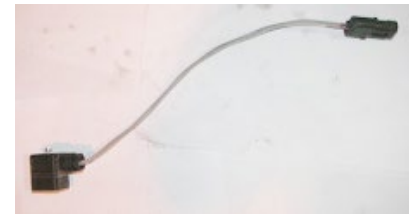
7 - A2615 X20 Ram Mount Angle Kit



10 - A3695 Sensor Harness



11 - A3737 4 Bin Drive Harness



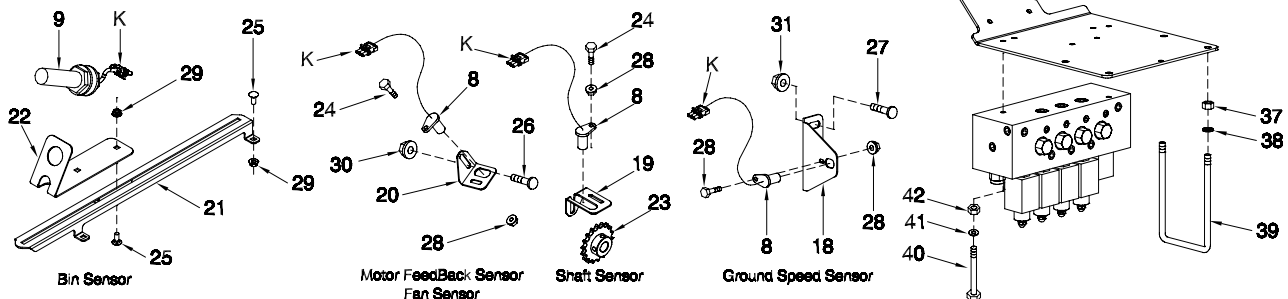
13 - A3739 Limp Home Harness



15 - A464 Tractor Harness



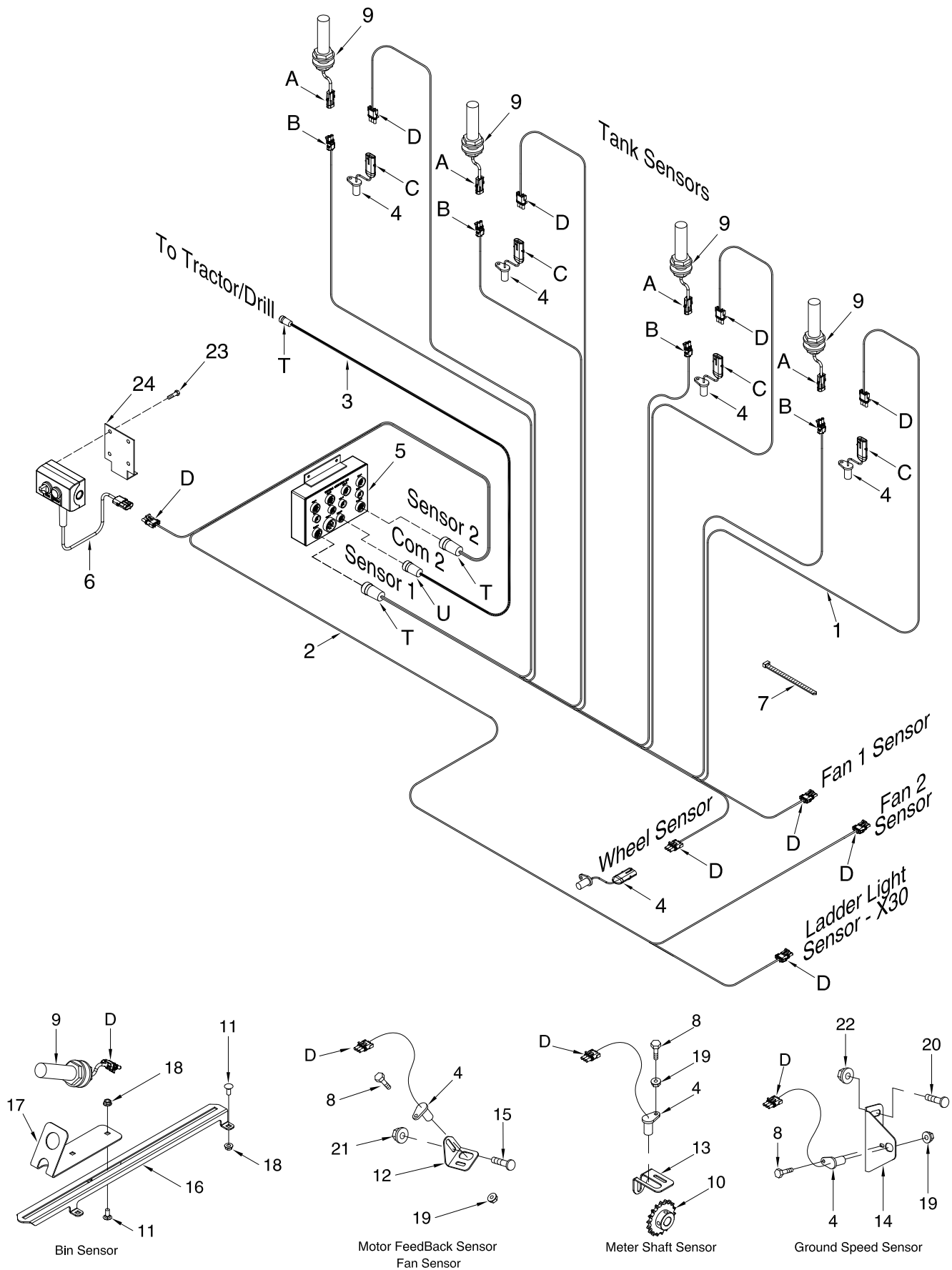
17- A468 Chassis Extension Harness
17A - A3738 Chassis Extension Harness



X20 - TopCon System

Item	Part No.	Description	No: Used	
			2Tank	3Tank
1	A3745	Morris X20 Console	1	1
	A2678	X20 Seed Rate Operation Manual		
2	A1258	Zynx Seedrate / Spreader Interface.....	1	1
3	N50622	AGA3980 Multidrive Electronic Control Unit (MDECU) 4 Channel	1	1
4	A1771	Run / Stop / Reset Switch Box.....	1	1
5	A1734	Comms Cable Shielded 5M (16Ft) 9 Wire Male "D" To 9 Wire Female "D"	1	1
6	A2400	X20 Power Harness.....	1	1
7	A2615	X20 Ram Mount Angle Kit	1	1
8	A3680	Honeywell Proximity Sensor To Suit Morris.....	3	4
9	A3681	Bin Level Sensor To Suit Morris No Bracket.....	2	3
10	A3695	Morris 8000 Series 4 Bin Sensor Harness	1	1
11	A3737	Morris Canada 4 Bin Drive Harness	1	1
12	A1901	Serial GPS / VRC Comms Harness 0.3M (1Ft)	1	1
13	A3739	Morris Canada Limp Home Adaptor Harness.....	1	1
15	A464	Actuator/Hydraulic Tractor Harness Suit Zynx And Seedrate Controller.....	1	1
16	*****			
17	A468	Actuator/Hydraulic Chassis Extension Harness 10M (32.5Ft) With Lights.....	1	1
18	N37330	Bracket - Sensor	1	1
19	N45199	Bracket - Shaft Sensor - Metershaft.....	2	3
20	N29296	Bracket - Sensor	3	4
21	N40899	Adjustment Plate - Cart tanks	2	3
22	N34799	Bracket - Bin Level Sensor	2	3
23	N45198	Sprocket - 40B18 - 3/4 Diameter Bore.....	2	3
24	W-469	Hex Bolt - 1/4 x 3/4 Lg	10	12
25	D-5259	Carriage Bolt - 5/16 x 3/4 Lg.....	4	6
26	D-5260	Carriage Bolt - 3/8 x 1 1/4 Lg.....	3	4
27	D-5265	Carriage Bolt - 1/2 x 1 Lg.....	2	3
28	D-5277	Locknut - 1/4 - Serrated	10	12
29	D-5278	Locknut - 5/16 - Serrated	4	6
30	D-5279	Locknut - 3/8 - Serrated	3	4
31	D14565	Locknut - 1/2 - Serrated	2	2
32	N45530	Shaft -Slow Speed - TOPCON VRT - 72 Tooth Feedback Wheel	2	3
33	N48009	Mounting Bracket - Run-Reset Box	1	1
34	N29696	Screw - #10 X 3/4 HEX SELF TAP.....	4	4
35	S27987	Locknut - 3/8 -16 Flange Centre Lock	2	2
36	W-475	Hex Bolt - 3/8 X 1 Lg	2	2
37	W-514	Hex Nut - 3/8	4	4
38	W-523	Lockwasher - 3/8	4	4
39	N36019	U-Bolt - 3/8 x 4 x 10 15/16	2	2
40	W-1847	Hex Bolt - 1/4 x 5 Lg	2	2
41	W-521	Lockwasher - 1/4	2	2
42	W-512	Hex Nut - 1/4	2	2
43	N51548	Mounting Plate - Manifold (Not as Shown)	1	1
44	N48044	Switch Box - X20 Monitor Override (Not Shown)		
	A1705	Stylus (Not Shown)		
H	N29384	Packard Connector - BLACK - 2 Pin Plug		
I	N29385	Packard Connector - BLACK - 2 Pin Socket		
J	N27613	Packard Connector - BLACK - 3 Pin Plug		
K	N27614	Packard Connector - BLACK - 3 Pin Socket		
L	N29152	Packard Connector - BLACK - 4 Pin Socket		
M	N29153	Seal Connector - Black - BLACK - 4 Pin		

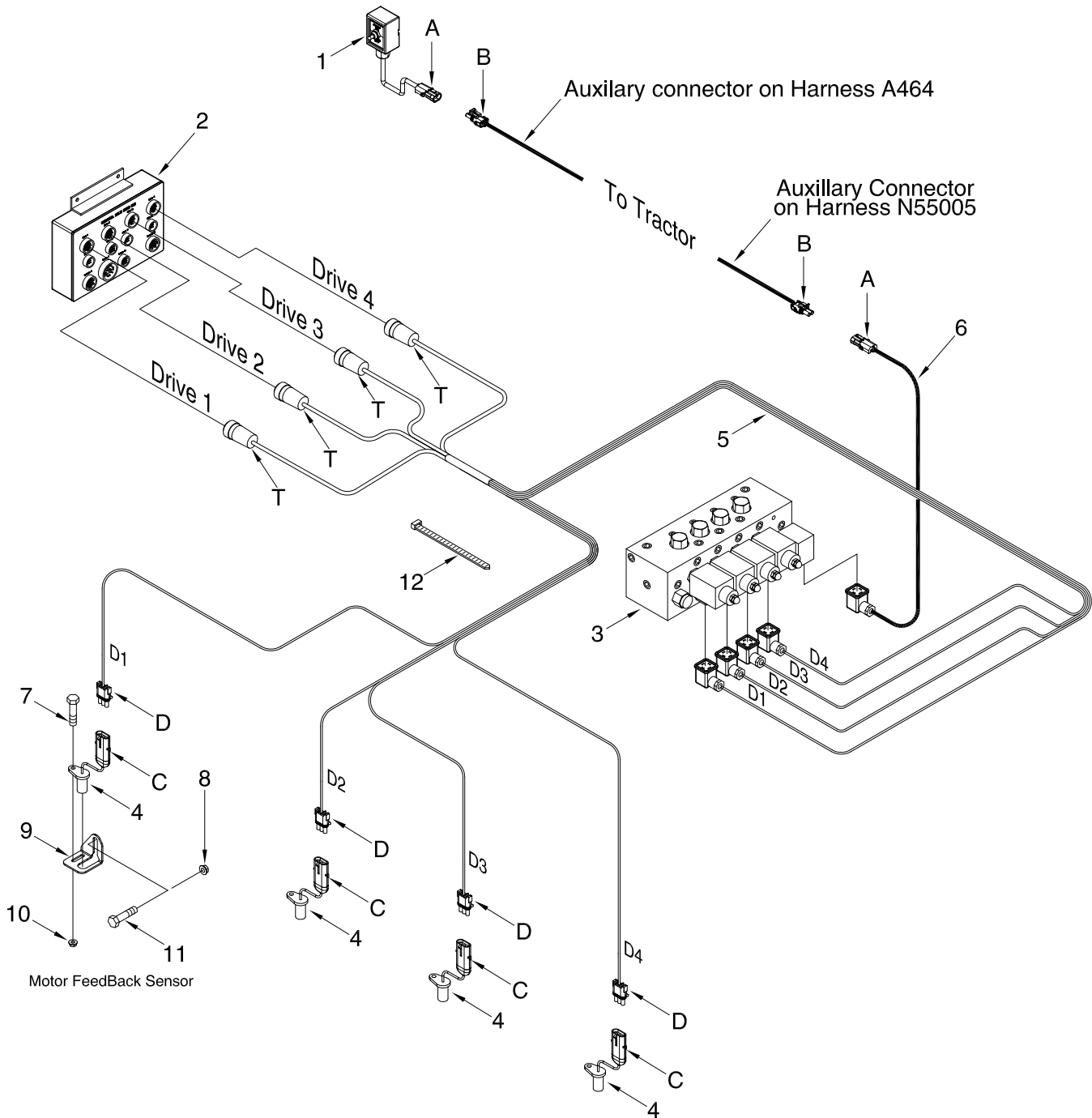
TopCon System X30 with IB-1 Cart Harness



X30 / IB1 Cart Harness

Item	Part No.	Description	Qty
Quantities listed are for a 4 Tank system			
1	N55004	TopCon 4 Tank Harness (A3695).....	1
2	N55007	TopCon Dual Fan Harness (AGA4895)	1
3	N55005	TopCon Actuator Harness (A3738).....	1
4	N50070	Sensor - Hall Effect (A3680)	5
5	N50622	Multi Drive Electronic Control Unit - 4 Channel (AGA3980)	1
6	N55009	TopCon - Run/Stop/Reset/ Box (A1771).....	1
7	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	AsReq
8	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	9
9	N55011	Bin Level Sensor (A3681)	4
10	N45198	Sprocket - 40B18 - 3/4 Diameter Bore	4
11	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	20
12	N29296	Fan Sensor Bracket	1
13	N45199	Shaft Sensor Bracket	4
14	N37330	Ground Speed Sensor Bracket - 4 5/8 Lg	1
15	D-5260	Carriage Bolt - 3/8 x 1 1/4 Lg	1
16	N40899	Adjustment Plate.....	4
17	N34799	Bracket - Bin Level Sensor.....	4
18	D-5278	Locknut - 5/16 Serrated.....	20
19	D-5277	Locknut - 1/4 Serrated.....	6
20	D-5265	Carriage Bolt - 1/2 x 1 Lg	2
21	D-5279	Locknut - 3/8 Serrated.....	1
22	D14565	Locknut - 1/2 Serrated.....	2
23	N29696	Screw - #10 x 3/4 Hex Self Tap.....	4
24	N48009	Mounting Bracket - Run\Reset Box	1
	N45166	Full Monitor Kit (AGA4552) - Contains Items (N55013 & N55014)	
	N55014	4 Tank Seeder Kit - Contains Items (1, 2, 3, 5, 6, N55006 & N55008)	
	N55013	4 Bin Sensor Kit - Contains Items (4 & 9)	
Replacement Connectors			
A	N29384	Weather Pak Connector - BLACK - 2 Pin Plug	
B	N29385	Weather Pak Connector - BLACK - 2 Pin Socket	
C	N27613	Weather Pak Connector - BLACK - 3 Pin Plug (Male)	
D	N27614	Weather Pak Connector - BLACK - 3 Pin Socket (Female)	
T	206037-1	Amphenol - 16 Pin Plug (Female)	
U	206708-1	Amphenol - 9 Pin Plug (Female)	

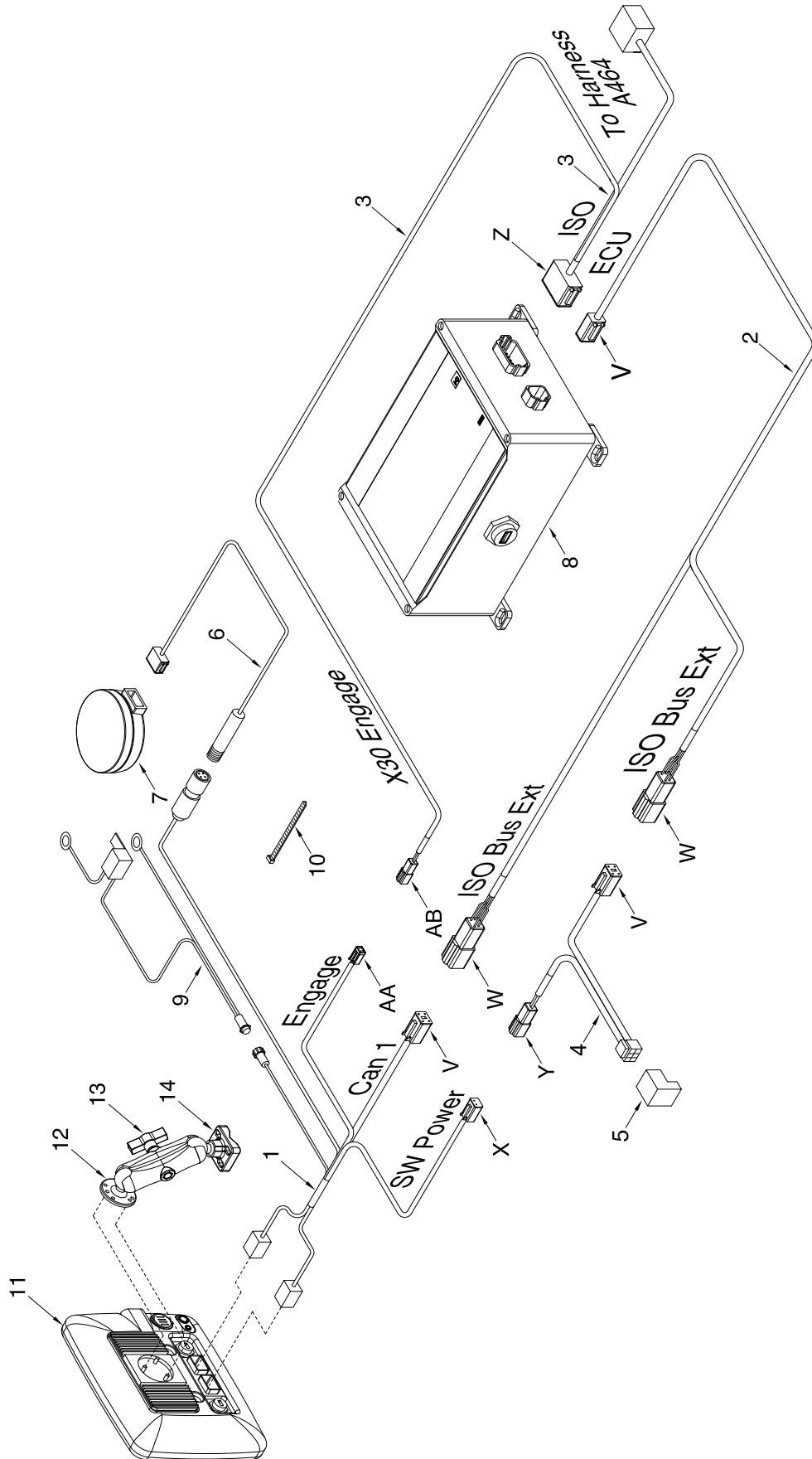
TopCon System X30 / IB1 VR Harness



X30 / IB1 VR Harness

Item	Part No.	Description	Qty
Quantities listed are for a 4 Tank system			
1	N55008	TopCon Limp Home Box (AGA4206) - used in Kit N55014	1
2	N50622	Multi Drive Electronic Control Unit - 4 Channel (AGA3980)	1
3	N45195	Valve Manifold Assembly	1
4	N50070	Sensor - Hall Effect (A3680)	5
5	N55006	4 Bin Drive Harness (A3737)	1
6	A3739	Limp Home Harness	1
7	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	4
8	D-5279	Locknut - 3/8 Serrated.....	4
9	N29296	Fan Sensor Bracket	4
10	D-5277	Locknut - 1/4 Serrated.....	4
11	D-5260	Carriage Bolt - 3/8 x 1 1/4 Lg	4
12	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	AsReq
Replacement Connectors			
A	N29384	Weather Pak Connector - BLACK - 2 Pin Plug	
B	N29385	Weather Pak Connector - BLACK - 2 Pin Socket	
C	N27613	Weather Pak Connector - BLACK - 3 Pin Plug (Male)	
D	N27614	Weather Pak Connector - BLACK - 3 Pin Socket (Female)	
T	206037-1	Amphenol - 16 Prin Plug (Female)	

TopCon System X30 / IB1 Tractor Installation

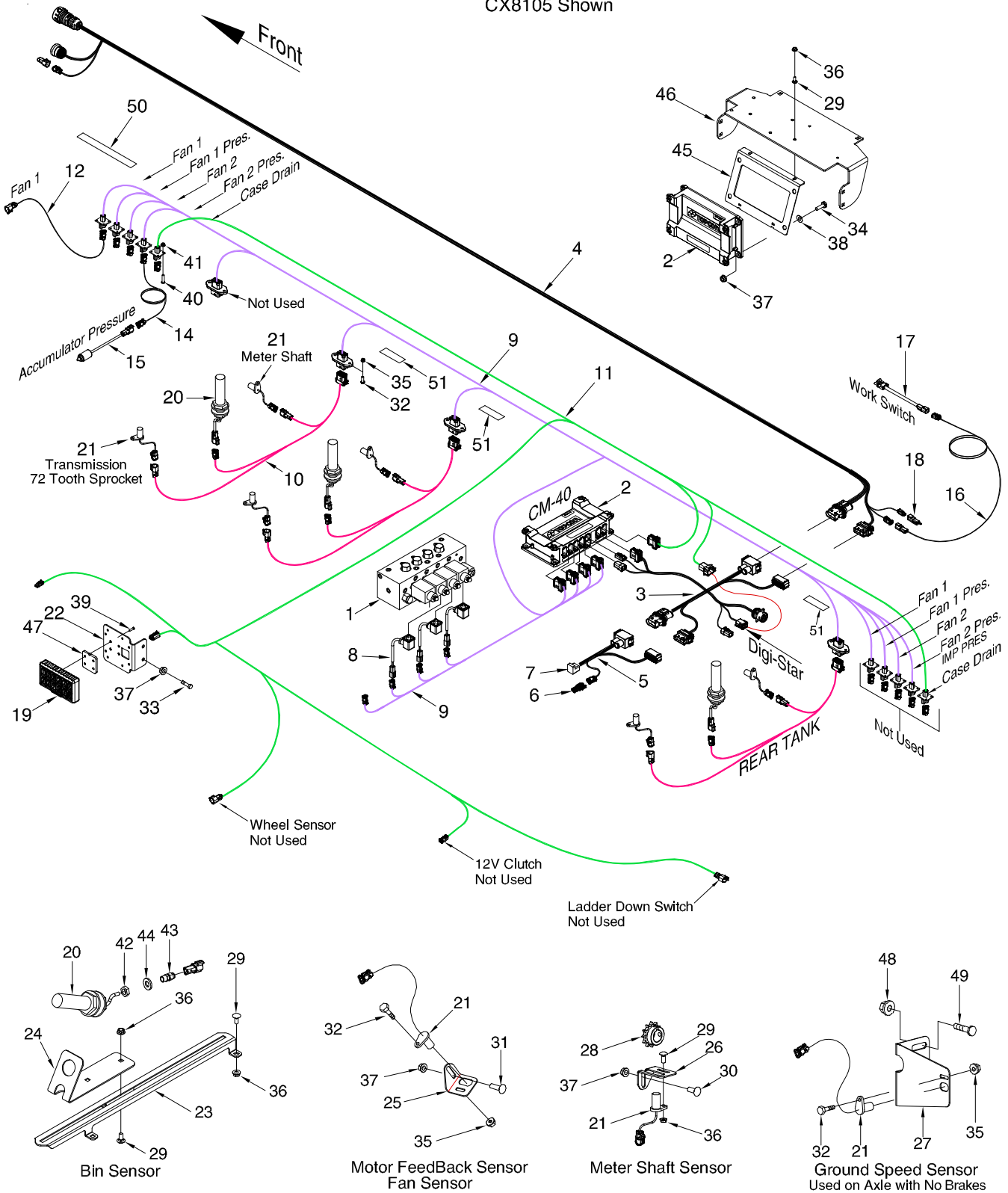


X30 / IB1 Tractor Installation

Item	Part No.	Description	Qty
		Quantities listed are for a 4 Tank system	
1	N53032	Topcon X30 Power/Comms Harness (AGA5072)	1
2	N53052	Ext Harness (AGA5251).....	1
3	N53037	ISO Bridge Adapter Harness (AGA4885)	1
4	N53053	Active Term (AGA4678)	1
5	N53054	Can Term Bias Circuit (AGK159)	1
6	N53035	GPS Reciever Harness (AGA4217)	1
7	N53034	GPS Reciever (SGR-1)	1
8	N51414	ISO Bridge (AGA4634).....	1
9	N55982	X30 Power Harness (AGA4073).....	1
10	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	AsReq
11	N53031	X30 Console (AGA4477) - Includes Ram Mount Items (12, 13 & 14).....	1
12	N55984	Ram Mounting Ball 0- Circular Base	1
13	K45686	Ram Mounting Arm - 5"	1
14	K45685	Ram Mount Base - Ubolt.....	1
15	N53064	ISO Bridge Install Guide - Not Shown.....	1
16	N55989	USB to Serial Adapter - GPS SIMULATOR (Not Shown)	
17	N55988	Net Gear Wi-Fi Dongle - X30 (Not Shown)	
	N53033	Topcon GPS Antenna Kit (AGA4749) - Contains Items (6 & 7)	
	N53480	Topcon Base Kit (AGA4769) - Contains Items (1, 9 & 11)	
	N53030	Topcon GPS Kit (AGA4748)- Contains Items (1, 6, 7, 9 & 11)	
	N53036	Topcon ISO Bridge Seeder Kit (AGA5291) - Contains items (2, 3, 4, 5, 8 & 15)	
	N55985	Ram Arm Mounting Kit - Contains Items (12, 13 & 14)	
		Replacement Connectors	
V	DT06-4S	Deutchsh - 4 Pin Plug	
W	DT04-4P	Deutchsh - 4 Pin Receptacle	
X	DT06-2S	Deutchsh - 2 Pin Plug	
Y	DT04-2P	Deutchsh - 2 Pin Receptacle	
Z	DT06-12S	Deutchsh - 12 Pin Plug	
AA	DTM06-2S	Deutchsh - 2 Pin Plug	
AB	DTM04-2P	Deutchsh - 2 Pin Receptacle	

Apollo TopCon System Cart Harness - Prior to 2019

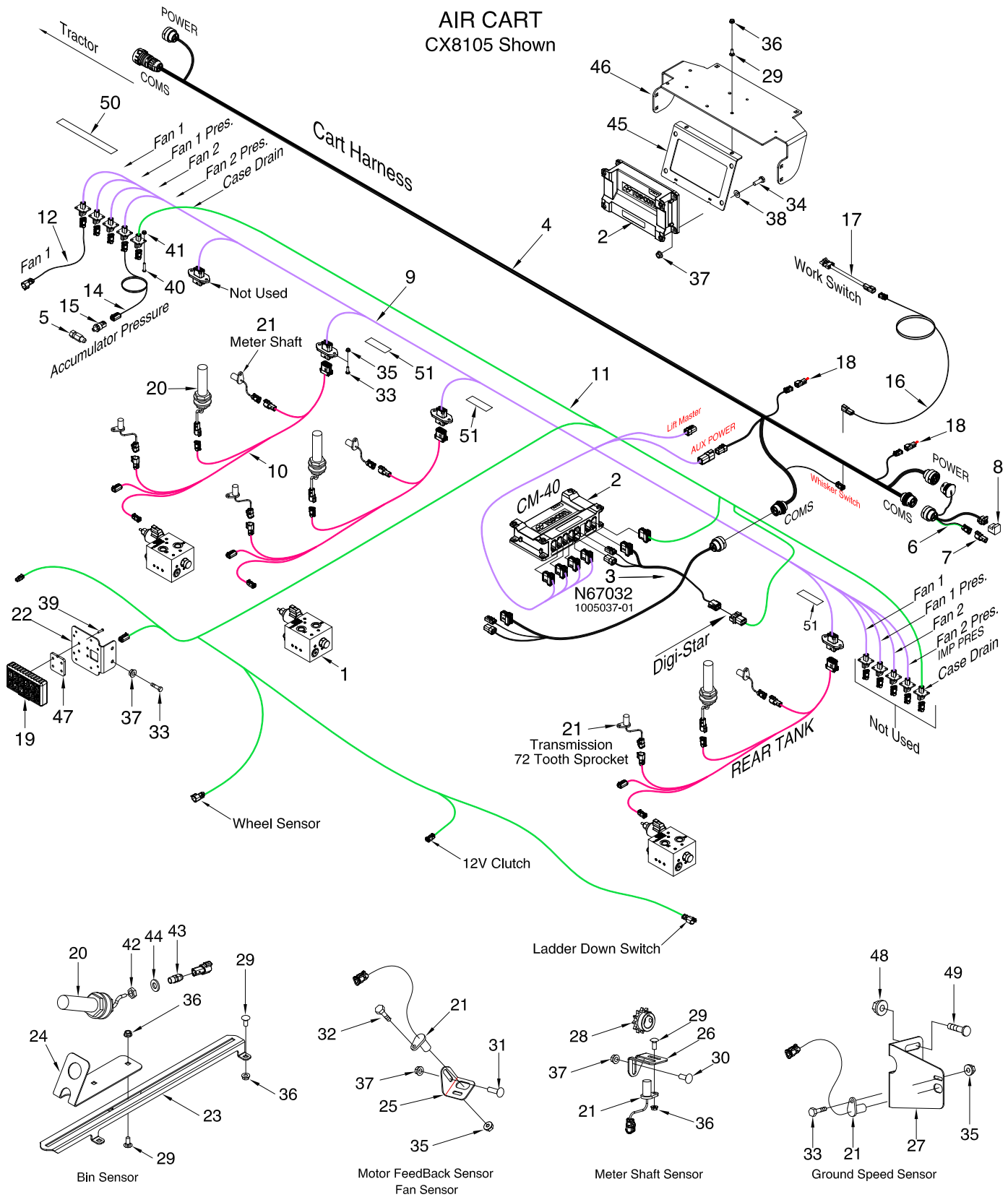
AIR CART CX8105 Shown



Apollo Cart Harness - Prior to 2019

Item	Part No.	Description	Qty
		Quantities listed are for a 3 Tank system	
1	N45195	Valve Manifold Assembly.....	1
2	N68950	Apollo Master Module ECU - CM-40 Series 2 - (1024223-01)	1
3	N56501	Harness Apollo ECU - AGA5343.....	1
4	N56502	Harness Apollo Front Trunk - 9m - AGA5448	1
5	N56505	Harness Apollo Terminator - AGA5345	1
6	N56519	Terminator Cap - AGY1355	1
7	N53054	CAN Term Bias Circuit	1
8	N55258	Hirschmann Connector - AGA5318	3
9	N58110	Harness Backbone Long Chassis - 1005341-01	1
10	N58111	Harness Tank Adapter - 1005342-01	3
11	N58112	Harness Auxilary - 1005343-01	1
12	N56512	Harness Extension - 3P Deutsch - 2m - AGA4471	1
13	N56513	Harness Extension - 3P Deutsch - 5m - AGA4472	1
14	N58964	Harness Extension Adapter - 3P Deutsch - 5m - 1009094-01	1
15	N58963	Pressure Transducer - Accumulator	1
16	N59010	Harness Extension - Work Switch - 5m - AGA4468.....	1
17	N60323	Harness Adapter - Work Switch	1
18	N59012	Safety Switch Loop	1
19	N56500	Keypad - AGA5504.....	1
20	N56507	Bin Level Sensor - AGA5478.....	3
21	N56511	Proximity Sensor - 1004033-01	6
22	N48009	Mounting Bracket - Keypad	1
23	N40899	Adjustment Plate	3
24	N34799	Bracket - Bin Level Sensor.....	3
25	N29296	Fan Sensor Bracket	4
26	N45199	Shaft Sensor Bracket	3
27	N37330	Ground Speed Sensor Bracket - Used on Axle with No Brakes	1
28	N45198	Sprocket - 40B18 - 3/4 Diameter Bore - VRT	4
29	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	20
30	P7C616	Carriage Bolt - 3/8 x 1 Lg	3
31	D-5260	Carriage Bolt - 3/8 x 1 1/4 Lg	4
32	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	11
33	W-475	Hex Bolt - 3/8 x 1 Lg.....	2
34	W-477	Hex Bolt - 3/8 x 1 1/2	4
35	D-5277	Locknut - 1/4 Serrated Flange.....	11
36	D-5278	Locknut - 5/16 Serrated Flange	20
37	D-5279	Locknut - 3/8 Serrated Flange.....	13
38	D-5489	Flat Washer - 13/32 ID x 13/16 OD x 16 GA	4
39	N59962	Machine Screw - #10 x 3/4 Lg (Hex Head)	4
40	N29486	Machine Screw - #8 x 5/8 Lg (Phillips Pan Head)	20
41	N16564	Locknut - #8-32 Serrated	20
42	N56748	Bimed Locknut - 1 Per Tank.....	3
43	N56749	Bimed Cable Gland - 1 Per Tank	3
44	N56750	M-16 Washer - Nitrile Rubber - 1 Per Tank	3
45	N58190	Bracket - ECU Mount	1
46	N56493	Panel - Valve Mount.....	1
47	N56949	Spacer Plate	1
48	D14565	Locknut - 1/2 Serrated Flange - Used on Axle with No Brakes	2
49	D-5265	Carriage Bolt - 1/2 x 1 Lg - Used on Axle with No Brakes	2
50	N60417	Decal - Plug ID.....	2
51	N60418	Decal - Harness ID.....	4
	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	AsReq

X35 Apollo TopCon System - 2019 to present Cart Harness - Tow Between

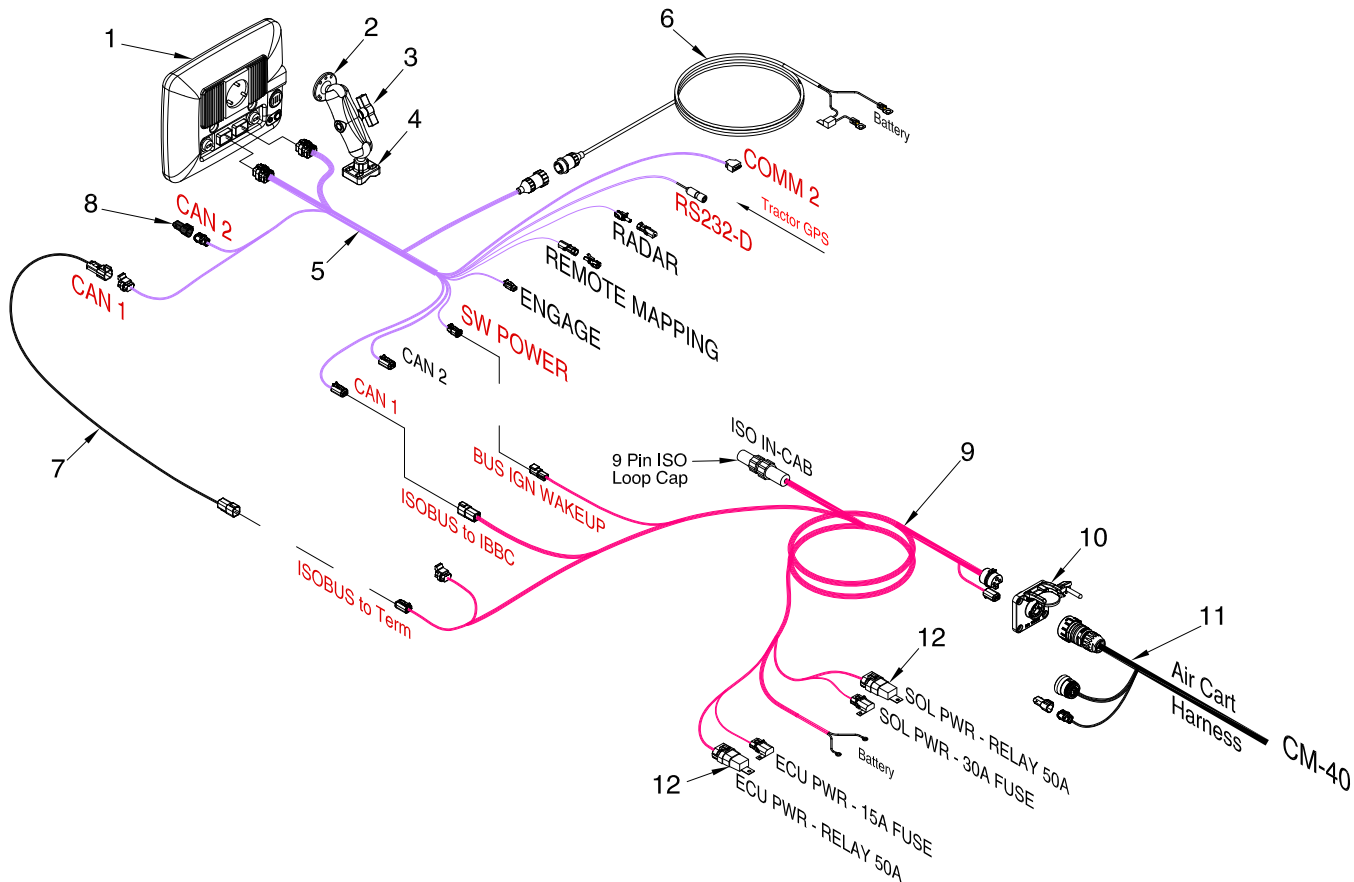


X35 Apollo Cart Harness - Tow Between - 2019 to present

Item	Part No.	Description	Qty
		Quantities listed are for a 3 Tank system	
1	N60258	Valve Manifold Assembly.....	3
2	N68950	Apollo Master Module ECU - CM-40 Series 2 - (1024223-01)	1
3	N67032	Harness Apollo Dual ECU - 4GA - (1005037-01).....	1
4	N67030	Harness Apollo Lead Implement - 4GA - (1020151-01)	1
5	K62978	Tee - Gauge Port - 7/8-14 (#10) MJIC x 7/8-14 (#10) FJIC x 7/16-20 (#4) FORB.....	1
6	N67615	Terminator Loop Cap - Tow Between - (1005028-01) Includes items 7 and 8.....	1
7	N56519	Terminator Cap - (AGY1355)	1
8	N53054	CAN Term Bias Circuit (AGK159)	1
9	N67042	Harness Backbone Long Chassis - (1026290-01).....	1
10	N67043	Harness Tank Adapter - (1026292-01).....	3
11	N58112	Harness Auxilary - (1005343-01).....	1
12	N56512	Harness Extension - 3P Deutsch - 2m - (AGA4471)	1
13	N56513	Harness Extension - 3P Deutsch - 5m - (AGA4472)	1
14	N64670	Harness Extension Adapter - DT06-4S to DT06-3S - 10m - (1024229-01)	1
15	K62977	Pressure Transducer - Accumulator	1
16	N59010	Harness Extension - Work Switch - 5m - (AGA4468)	1
17	N60323	Harness Adapter - Work Switch - 3m - (1015894-01)	1
18	N59012	Safety Switch Loop	2
19	N56500	Keypad - (AGA5504)	1
20	N56507	Bin Level Sensor - AGA5478.....	3
21	N56511	Proximity Sensor - 1004033-01	6
22	N48009	Mounting Bracket - Keypad	1
23	N40899	Adjustment Plate	3
24	N34799	Bracket - Bin Level Sensor.....	3
25	N29296	Fan Sensor Bracket	4
26	N45199	Shaft Sensor Bracket	3
27	N37330	Ground Speed Sensor Bracket - Used on Axle with No Brakes	1
28	N45198	Sprocket - 40B18 - 3/4 Diameter Bore - VRT	4
29	D-5259	Carriage Bolt - 5/16 x 3/4 Lg	20
30	P7C616	Carriage Bolt - 3/8 x 1 Lg	3
31	D-5260	Carriage Bolt - 3/8 x 1 1/4 Lg	4
32	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	11
33	W-475	Hex Bolt - 3/8 x 1 Lg.....	2
34	W-477	Hex Bolt - 3/8 x 1 1/2	4
35	D-5277	Locknut - 1/4 Serrated Flange.....	11
36	D-5278	Locknut - 5/16 Serrated Flange	20
37	D-5279	Locknut - 3/8 Serrated Flange.....	13
38	D-5489	Flat Washer - 13/32 ID x 13/16 OD x 16 GA	4
39	N59962	Machine Screw - #10 x 3/4 Lg (Hex Head)	4
40	N29486	Machine Screw - #8 x 5/8 Lg (Phillips Pan Head)	20
41	N16564	Locknut - #8-32 Serrated	20
42	N56748	Bimed Locknut - 1 Per Tank.....	3
43	N56749	Bimed Cable Gland - 1 Per Tank	3
44	N56750	M-16 Washer - Nitrile Rubber - 1 Per Tank	3
45	N58190	Bracket - ECU Mount	1
46	N56493	Panel - Valve Mount.....	1
47	N56949	Spacer Plate	1
48	D14565	Locknut - 1/2 Serrated Flange - Used on Axle with No Brakes	2
49	D-5265	Carriage Bolt - 1/2 x 1 Lg - Used on Axle with No Brakes	2
50	N60417	Decal - Plug ID.....	2
51	N60418	Decal - Harness ID.....	4
	D-4838	Nylon Tie Strap - 14 1/2 Lg (Black)	AsReq

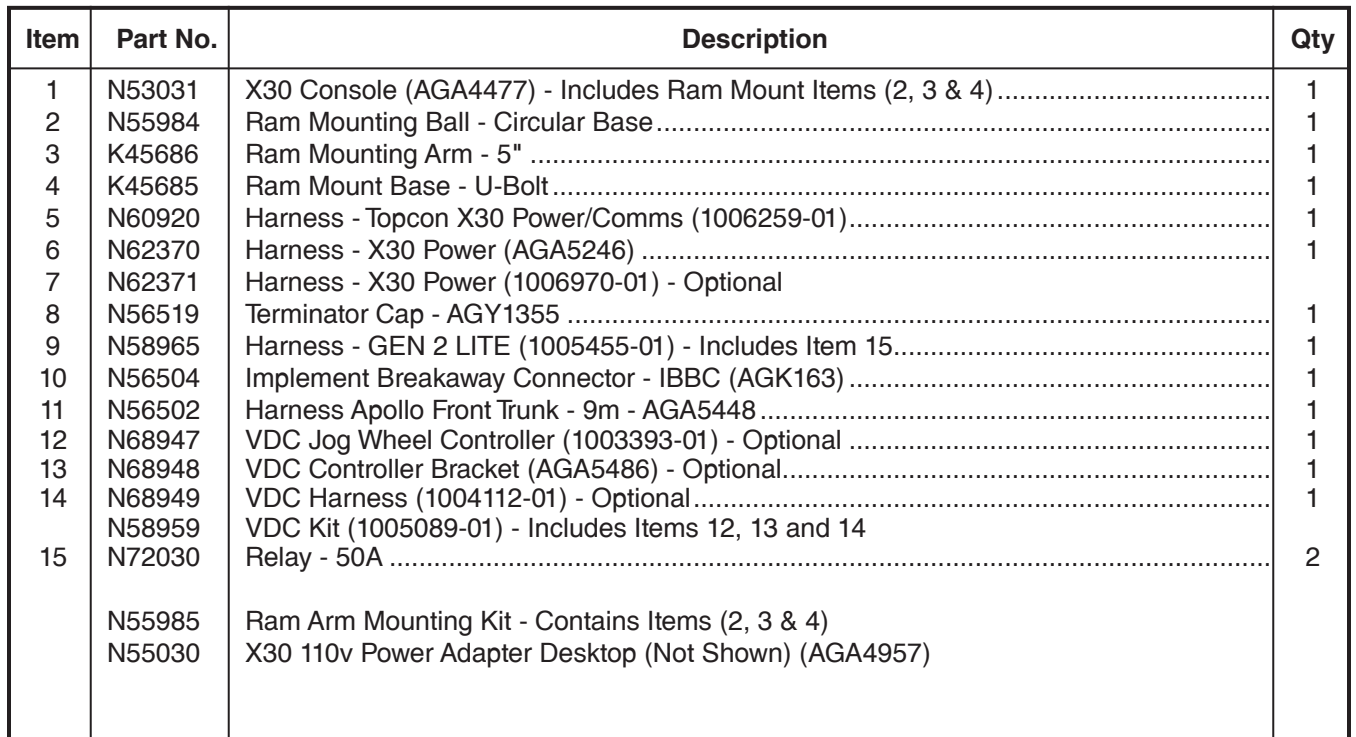
Apollo TopCon System Tractor without ISO BUS - X30 Installation - 2016

Tractor **ICT** Connection without ISO BUS



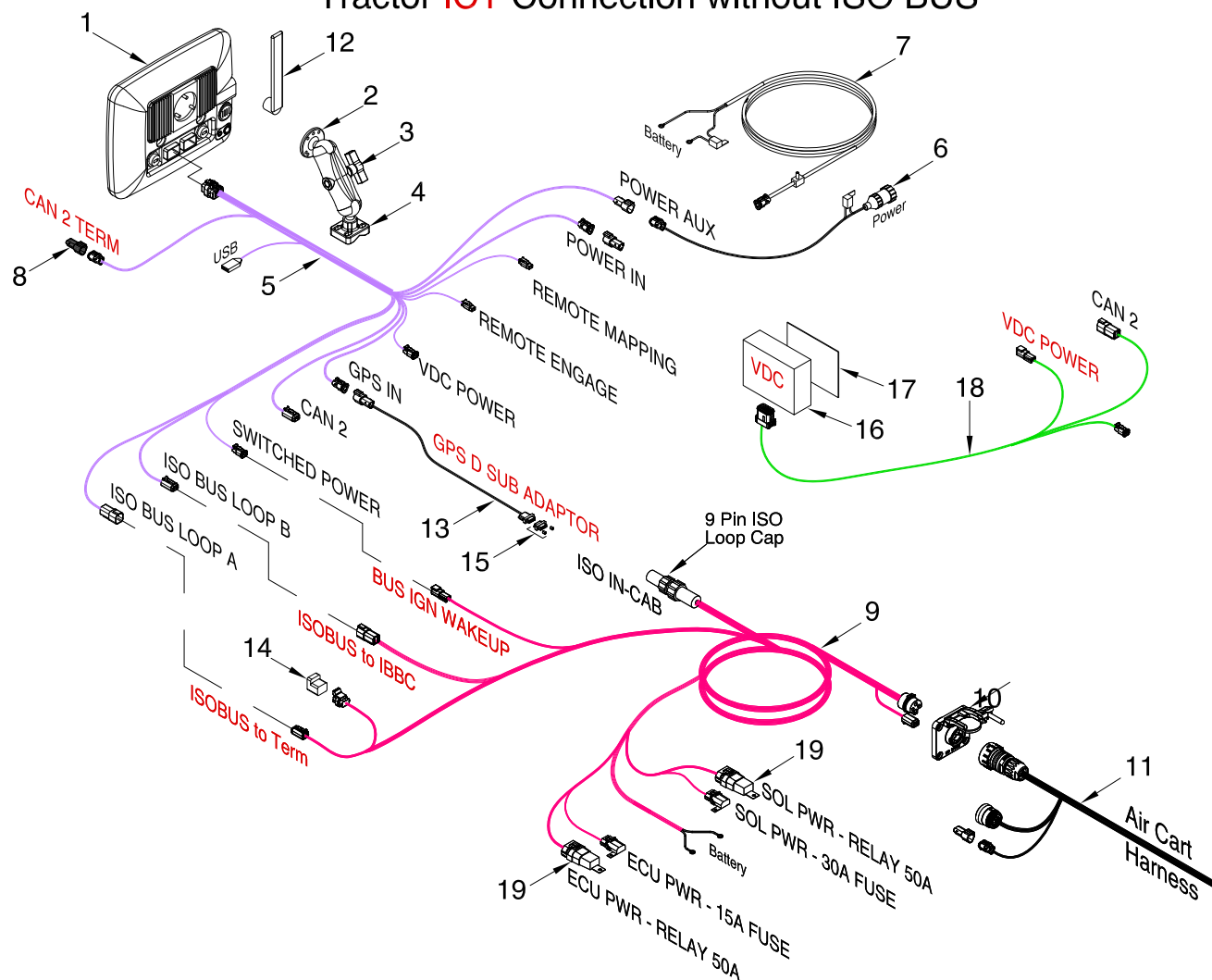
Item	Part No.	Description	Qty
1	N53031	X30 Console (AGA4477) - Includes Ram Mount Items (2, 3 & 4)	1
2	N55984	Ram Mounting Ball - Circular Base	1
3	K45686	Ram Mounting Arm - 5"	1
4	K45685	Ram Mount Base - U-Bolt	1
5	N53032	Harness - Topcon X30 Power/Comms (AGA5072)	1
6	N55982	Harness - X30 Power (AGA4073)	1
7	N56517	Harness - ISO Adapter- AGA5377	1
8	N56519	Terminator Cap - AGY1355	1
9	N58965	Harness - GEN 2 LITE (1005455-01) - Includes Item 12.....	1
10	N56504	Implement Breakaway Connector - IBBC (AGK163)	1
11	N56502	Harness Apollo Front Trunk - 9m - AGA5448	1
12	N72030	Relay - 50A	2
	N55985	Ram Arm Mounting Kit - Contains Items (2, 3 & 4)	
	N55030	X30 110v Power Adapter Desktop (Not Shown) (AGA4957)	

Tractor ICT Connection without ISO BUS



Apollo TopCon System Tractor without ISO BUS - X35 Installation - 2018

Tractor **ICT** Connection without ISO BUS



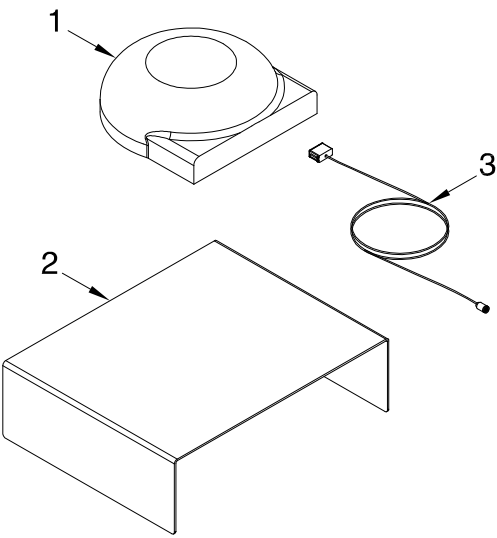
Item	Part No.	Description	Qty
1	N64500	X35 Console (1007188-01) - Includes Ram Mount Items (2, 3 & 4)	1
2	N55984	Ram Mounting Ball - Circular Base	1
3	K45686	Ram Mounting Arm - 5"	1
4	K45685	Ram Mount Base - U-Bolt	1
5	N64502	Harness - Topcon X35 Power/Comms (1019154-01)	1
6	N62370	Harness - X30 Power (AGA5246)	1
7	N62371	Harness - X30 Power (1006970-01) - Optional	1
8	N56519	Terminator Cap - (AGY1355)	1
9	N58965	Harness - GEN 2 LITE (1005455-01) - Includes Item 19	1
10	N56504	Implement Breakaway Connector - IBBC (AGK163)	1
11	N56502	Harness Apollo Front Trunk - 9m - (AGA5448)	1
12	N64501	X35 Wi-Fi Adapter - (1018642-01)	1
13	N65056	GPS D Sub Adapter - (1021456-01)	1
14	N53054	CAN Term Bias Circuit (AGK159)	1
15	N65130	Kit - Yellow Gender Changer - Includes (1) N65099 and (2) N65098	1
16	N68947	VDC Jog Wheel Controller (1003393-01) - Optional	1
17	N68948	VDC Controller Bracket (AGA5486) - Optional	1
18	N68949	VDC Harness (1004112-01) - Optional	1
	N58959	VDC Kit (1005089-01) - Includes Items 16, 17 and 18	1
	N55985	Ram Arm Mounting Kit - Contains Items (2, 3 & 4)	1
19	N72030	Relay - 50A	2

Tractor without ISO BUS - X35 Installation - 2019 to present



Item	Part No.	Description	Qty
1	N64500	X35 Console (1007188-01) - Includes Ram Mount Items (2, 3 & 4).....	1
	N55985	Ram Arm Mounting Kit - Contains Items (2, 3 & 4)	
2	N55984	Ram Mounting Ball - Circular Base.....	1
3	K45686	Ram Mounting Arm - 5"	1
4	K45685	Ram Mount Base - U-Bolt	1
5	N64502	Harness - Topcon X35 Power/Comms (1019154-01)	1
6	N62370	Harness - X30 Power (AGA5246)	1
7	N62371	Harness - X30 Power (1006970-01) - Optional	
8	N56519	Terminator Cap - (AGY1355).....	1
9	N58965	Harness - GEN 2 LITE (1005455-01) - Includes Item 21	1
10	N56504	Implement Breakaway Connector - IBBC (AGK163).....	1
11	N67030	Harness Apollo Lead Implement - 4GA - (1020151-01)	1
12	N64501	X35 WI-FI Adapter - (1018642-01).....	1
13	N65056	GPS D Sub Adapter - (1021456-01)	1
14	N53054	CAN Term Bias Circuit (AGK159)	1
15	N67034	High Current Relay (1004269-01)	1
16	N67035	Harness - Power - 4GA (1004987-01).....	1
17	N67036	Battery Cable - Fused - 4GA (1004955-01)	1
18	N68947	VDC Jog Wheel Controller (1003393-01) - Optional	1
19	N68948	VDC Controller Bracket (AGA5486) - Optional.....	1
20	N68949	VDC Harness (1004112-01) - Optional.....	1
	N58959	VDC Kit (1005089-01) - Includes Items 18, 19 and 20	
	N68003	ZTN50166 - CNH GPS Cable - (Not Shown)	
	N68004	PFP10470 - JOHN DEERE Cable Kit - (Not Shown)	
	N68005	SGR-1 X35 GPS Harness - (AGA4286) - (Not Shown)	
21	N72030	Relay - 50A	2

Apollo TopCon System
AGI-4 Receiver Kit



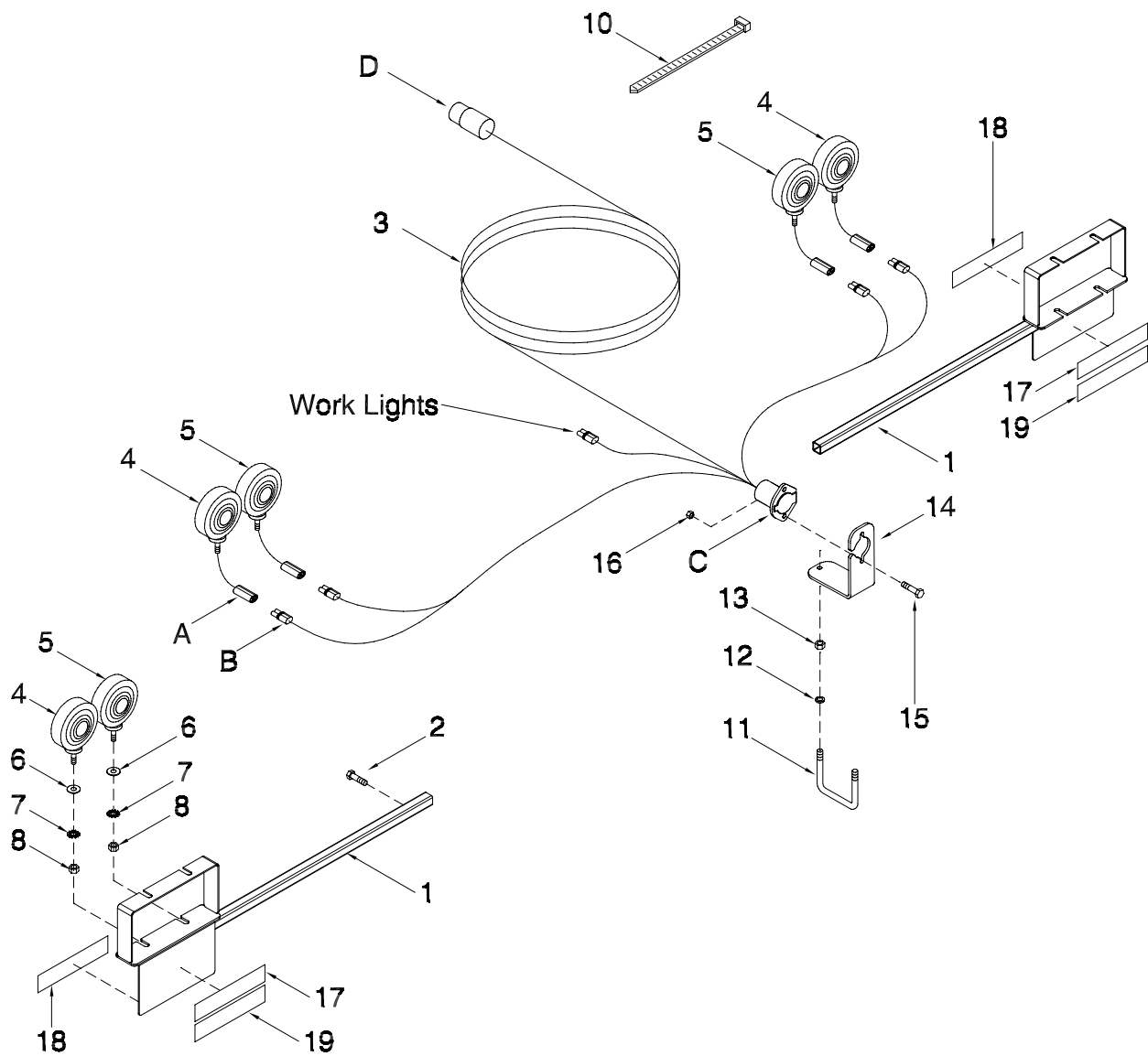
Item	Part No.	Description	Qty
1	N56900	AGI-4 Receiver (01-104701-01).....	1
2	N58100	AGI-4 Roof Bracket Universal (1001005-01).....	1
3	N58101	AGI-4 Roof Harness (AGA5250).....	1
	N56904	Kit - AGI-4 Receiver (Includes Above Items)	

Section 9: Lighting and Safety Signs

Section Contents

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Lighting 25 and 31 Ft Air Drill

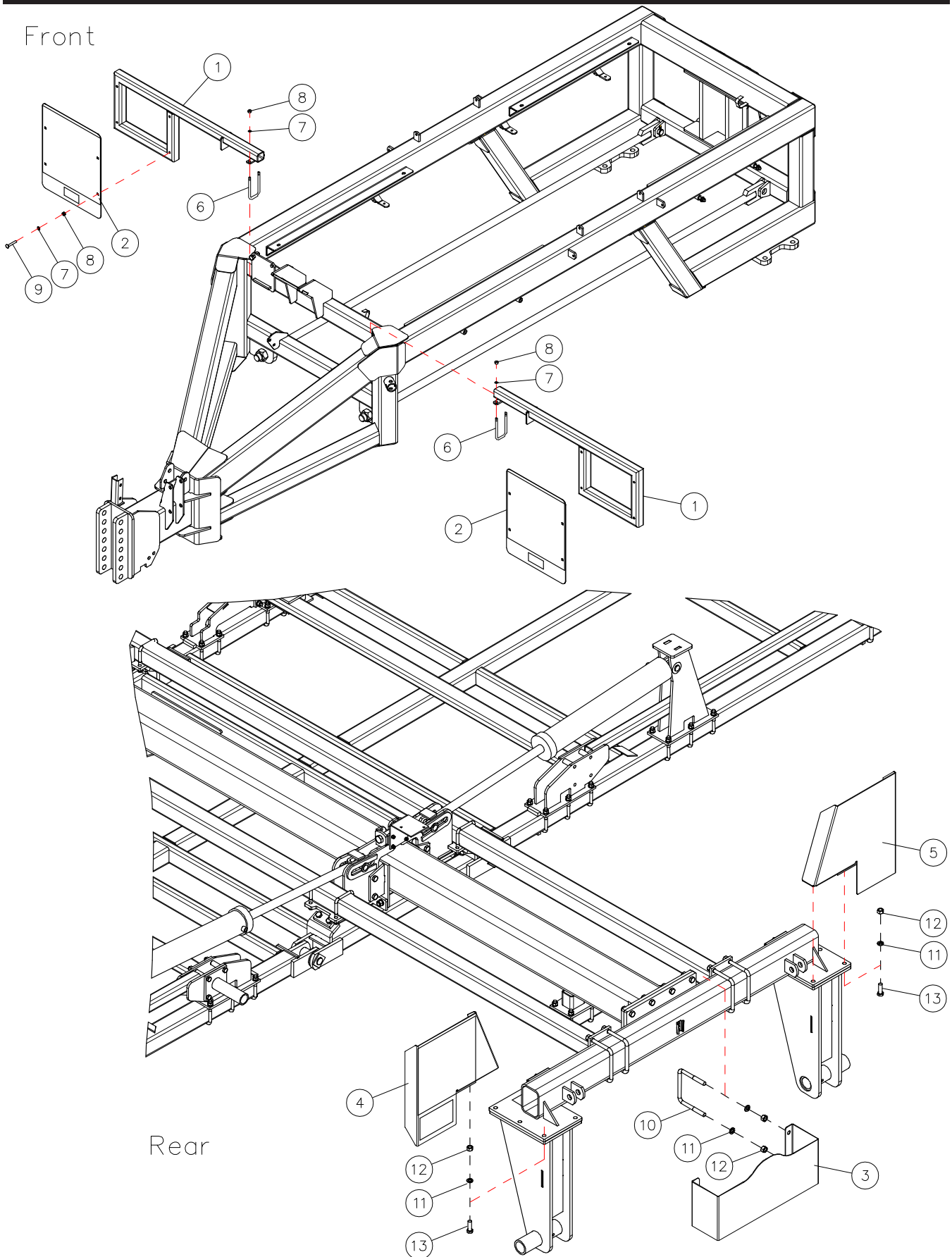


Lighting - Contour Air Drill - 25 and 31 Ft

Item	Part No.	Description	Qty
1	C31498	Tube - Mounting - Main - Lighting.....	2
2	W-484	Hex Bolt - 1/2 x 1.....	2
3	C31438	Wiring Harness - Safety Lights.....	1
4	C32765	Light - Amber.....	2
5	C32766	Light - Red	2
6	W-539	Flatwasher - 1/2	4
7	D-5280	Starwasher - 1/2.....	4
8	W-516	Hex Nut - 1/2	4
9	*****		
10	D-4951	Nylon Tie Strap - 7 3/8 lg.....	20
	S13336	Nylon Tie Strap - 28 1/4 lg.....	10
11	N34025	U-Bolt - 3/8 x 5 x 8	1
12	W-523	Lockwasher - 3/8.....	2
13	W-514	Hex Nut - 3/8	2
14	N32001	Bracket - Mounting	1
15	N29048	Carriage Head Bolt - 5/16 x 1 lg.....	2
16	D-5278	Serrated Nut - 5/16.....	2
17	N34476	Reflector - Red	2
18	N34477	Reflector - Amber	2
19	N34478	Reflector - Orange.....	2
	C32761	Red Acrylic Lens	
	C32762	Amber Acrylic Lens	
	C32515	Bulb - #1156 (Amber Light)	
	C32656	Bulb - #1157 (Red Light)	
A	C32681	Receptacle Connector Assembly - GRAY - 2 Pin	
B	C32682	Plug Connector Assembly - GRAY - 2 Pin	
C	C32686	Connector Assembly - 7 Pin Socket	
	C32684	Interior - Socket - 7 Pin Connector	
	C32685	Protective Boot - Socket - 7 Pin Connector	
D	C32690	Connector Assembly - 7 Pin Plug (Complete with Cable Protector Spring)	
	C32688	Interior - Plug - 7 Pin Connector	
	C32689	Cable Protector Spring - Plug - 7 Pin Connector	
	N46139	Kit Lighting - Contour Air Drill ORDER KIT THROUGH WHOLE GOODS ONLY	

Lighting European Safety Placards

Front

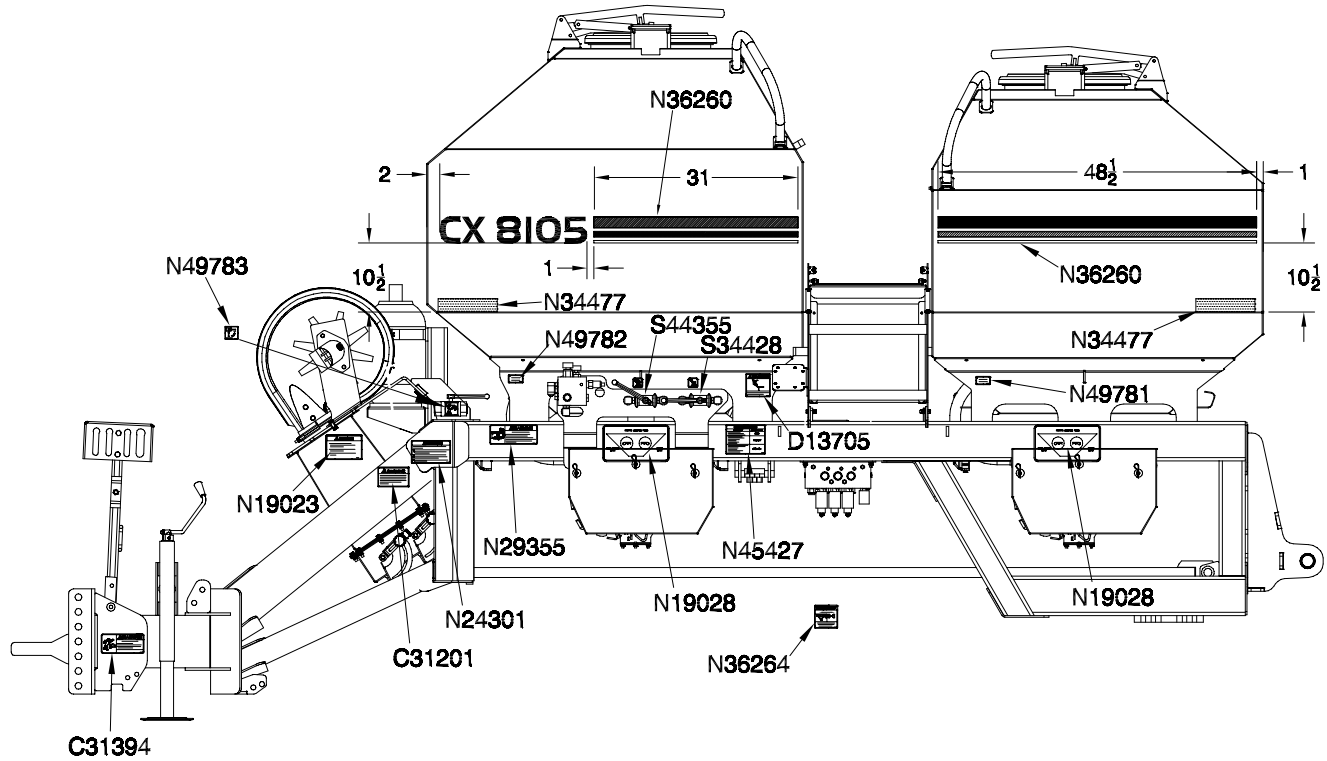


Lighting - European Safety Placards

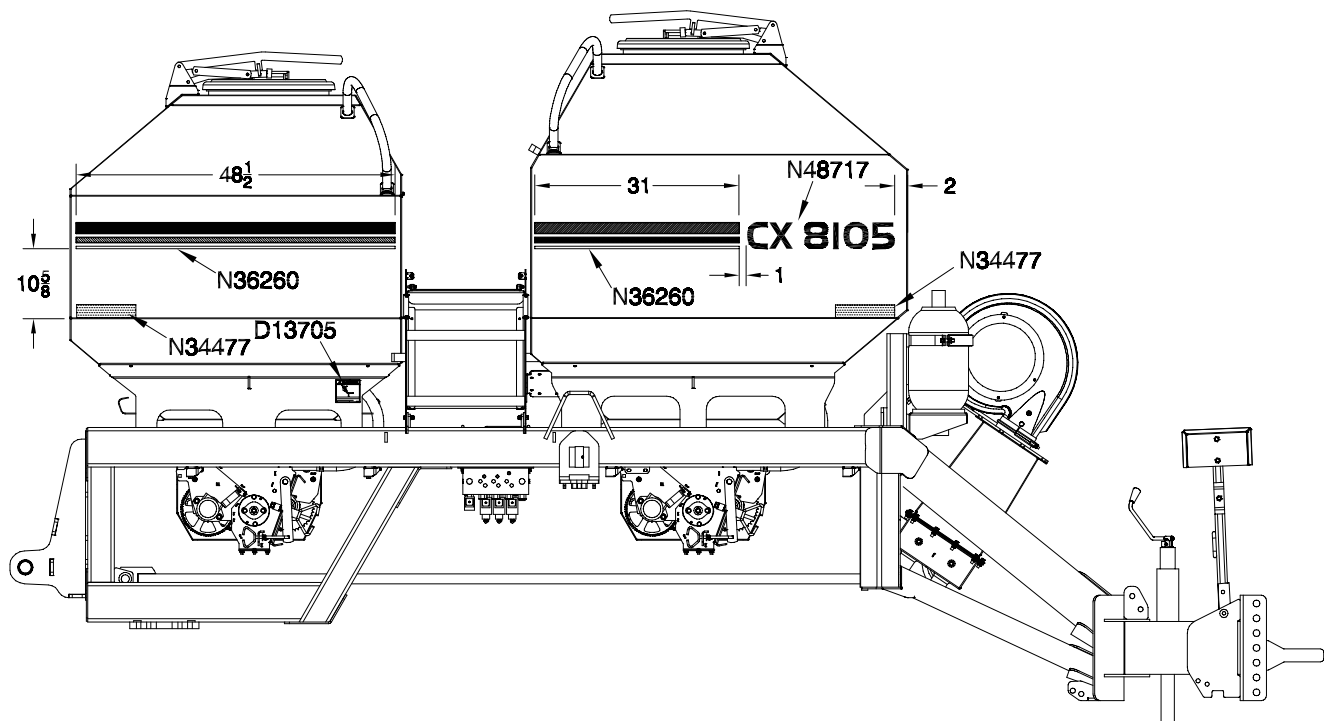
Item	Part No.	Description	Qty
1	N64165	Front Safety Bracket Mount.....	2
2	N64167	Safety Panel - 10 Ga.....	2
3	N64168	License Mount.....	1
4	N64173	Rear Panel - Left.....	1
5	N64043	Rear Panel - Right.....	1
6	S42354	U-Bolt - 3/8 x 3 x 5 UL.....	2
7	W-523	Lockwasher - 3/8.....	12
8	W-514	Hex Nut - 3/8.....	12
9	N49915	Carriage Bolt - 3/8 x 3 Lg.....	8
10	N34626	U-Bolt - 3/4 x 7 x 6 1/2 UL.....	2
11	W-527	Lockwasher - 3/4.....	4
12	W-518	Hex Nut - 3/4.....	4
13	W-1553	Hex Head Bolt - 3/4 x 2 1/4 Lg (Rear Axle mount hardware)	

Safety Signs CX 8105 Cart

CX 8105 - Left side -

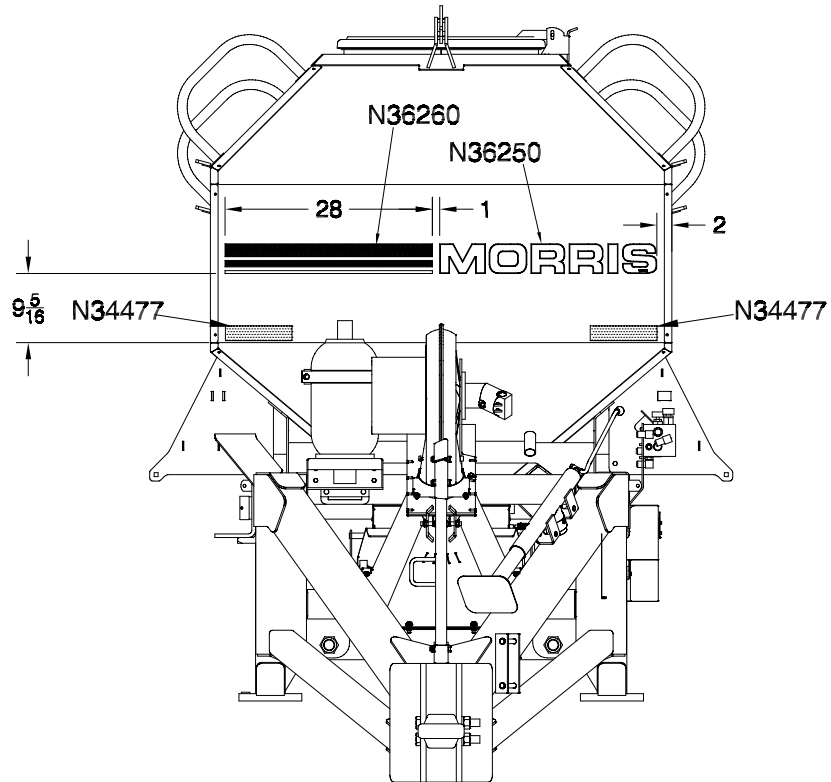


CX 8105 - Right side -

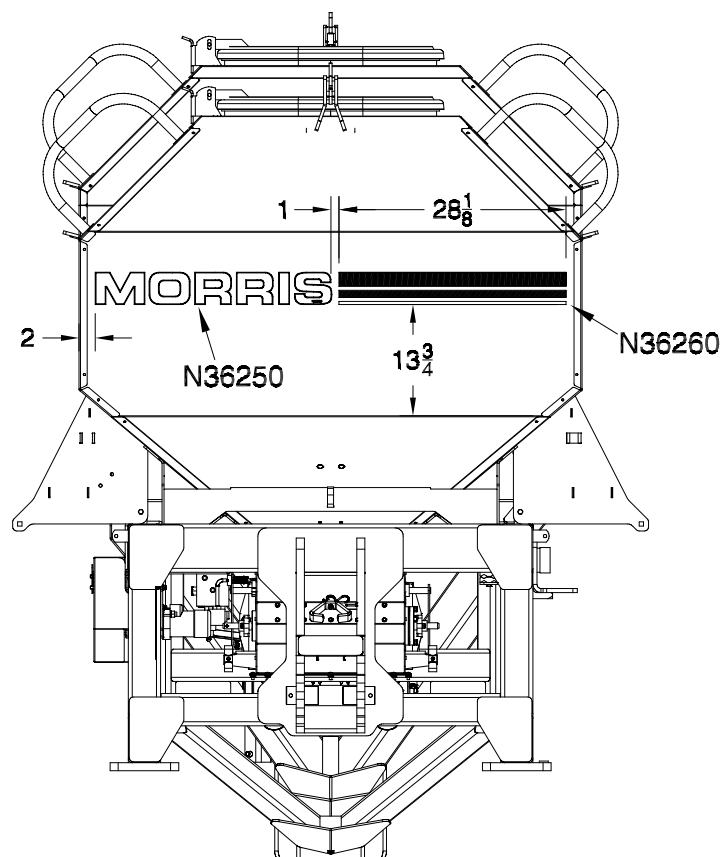


Safety Signs CX 8105 Cart

CX 8105 - Front -

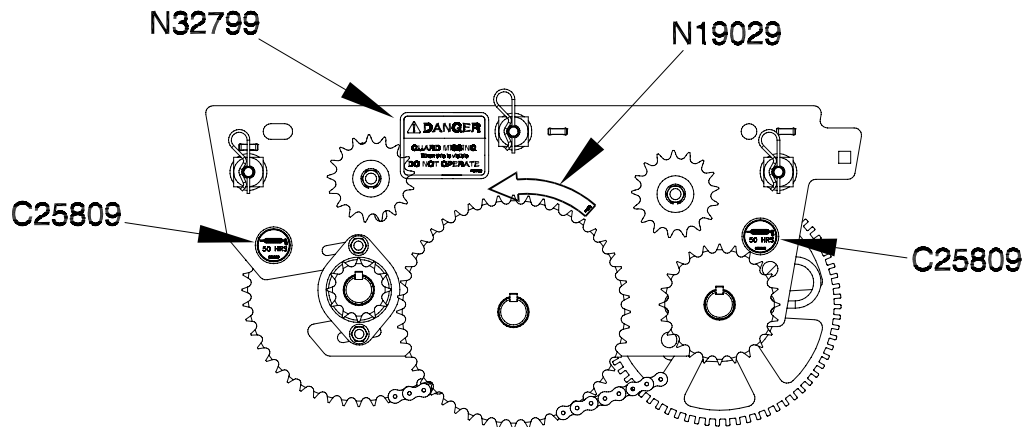


CX 8105 - Rear -

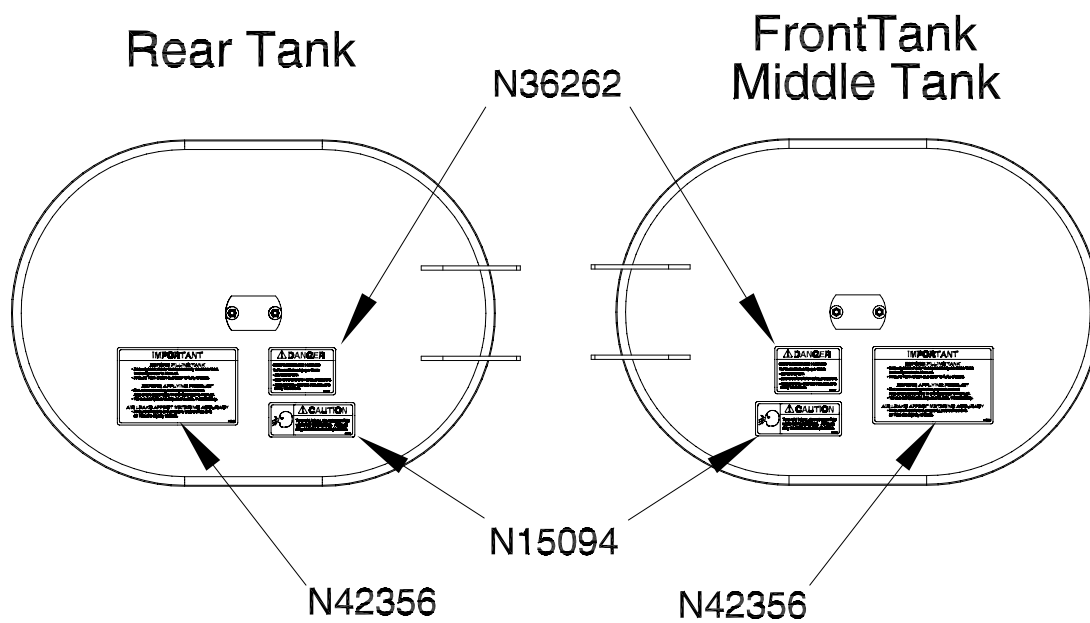


Safety Signs CX 8105 Cart

CX 8105 - Transmission -

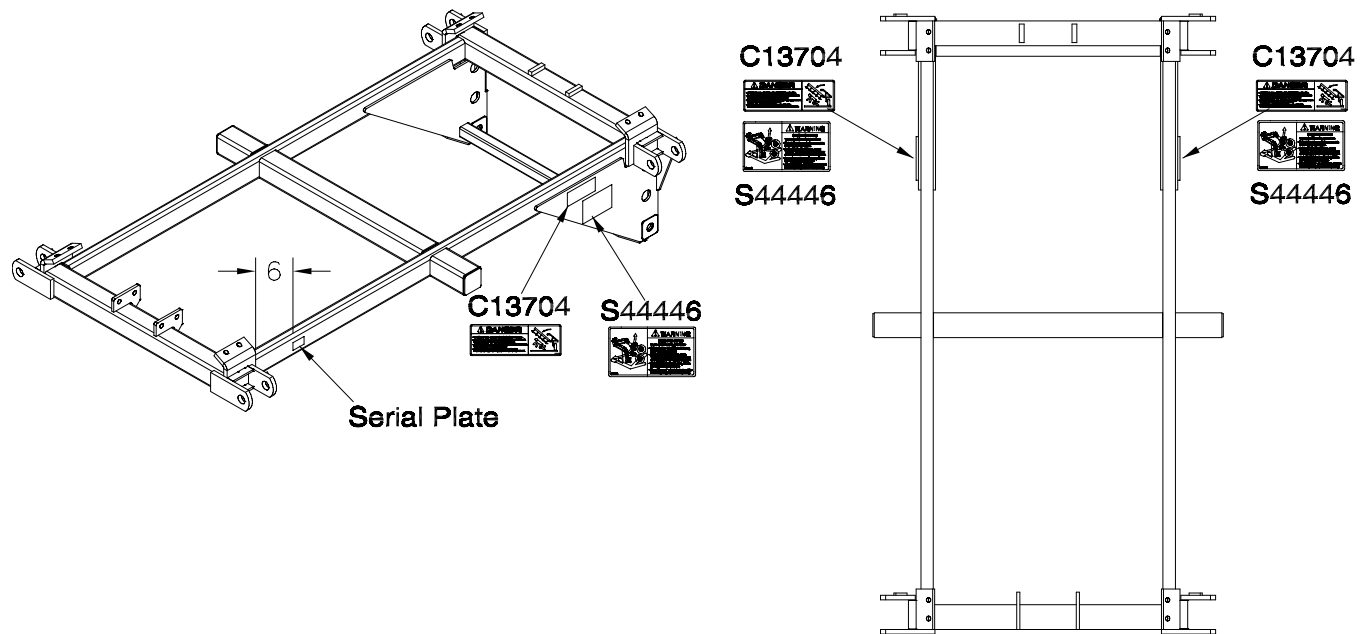


CX 8105 - Tank Lids -

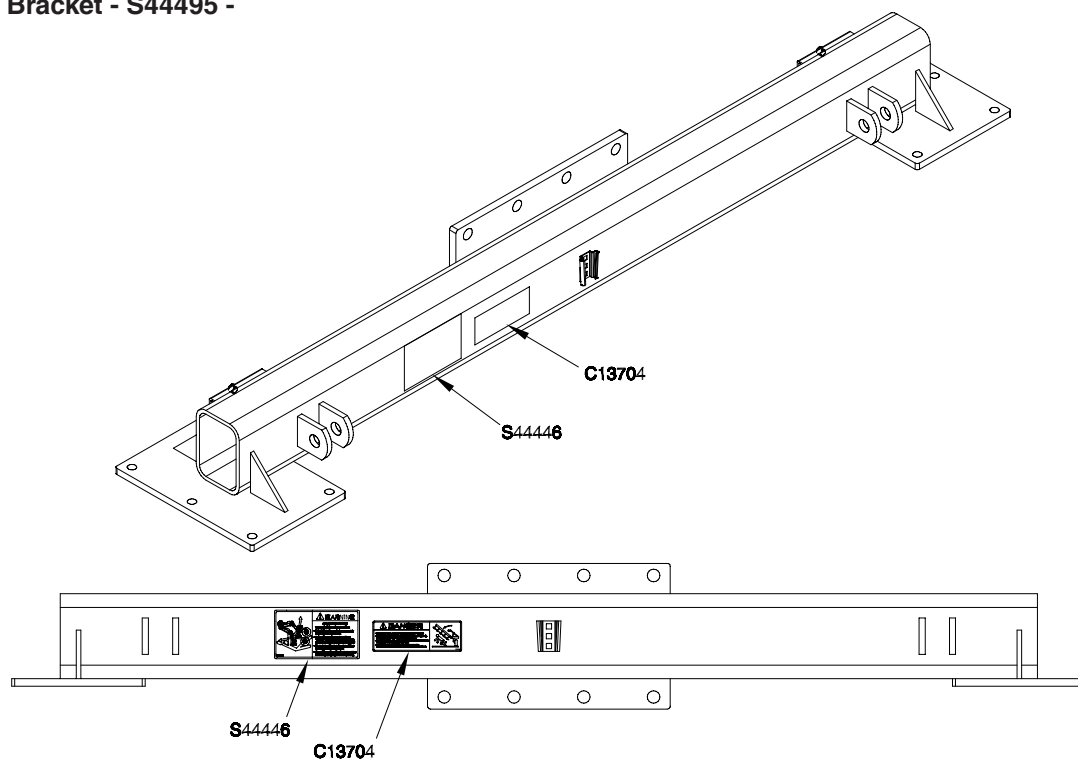


Safety Signs 25 and 31 Ft Air Drill

Main Frame - S44489



Rear Axle Bracket - S44495 -

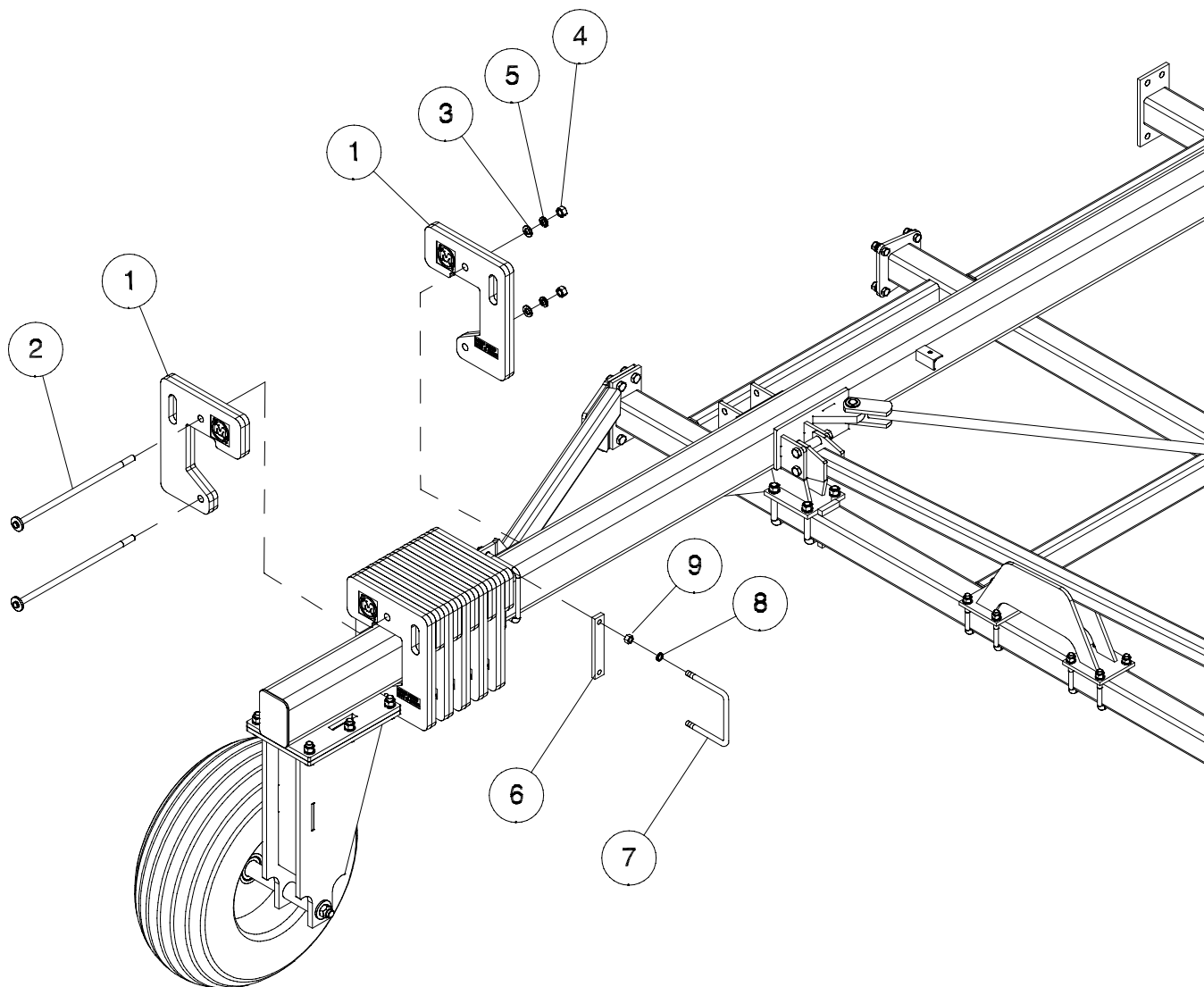


Section 10: Options

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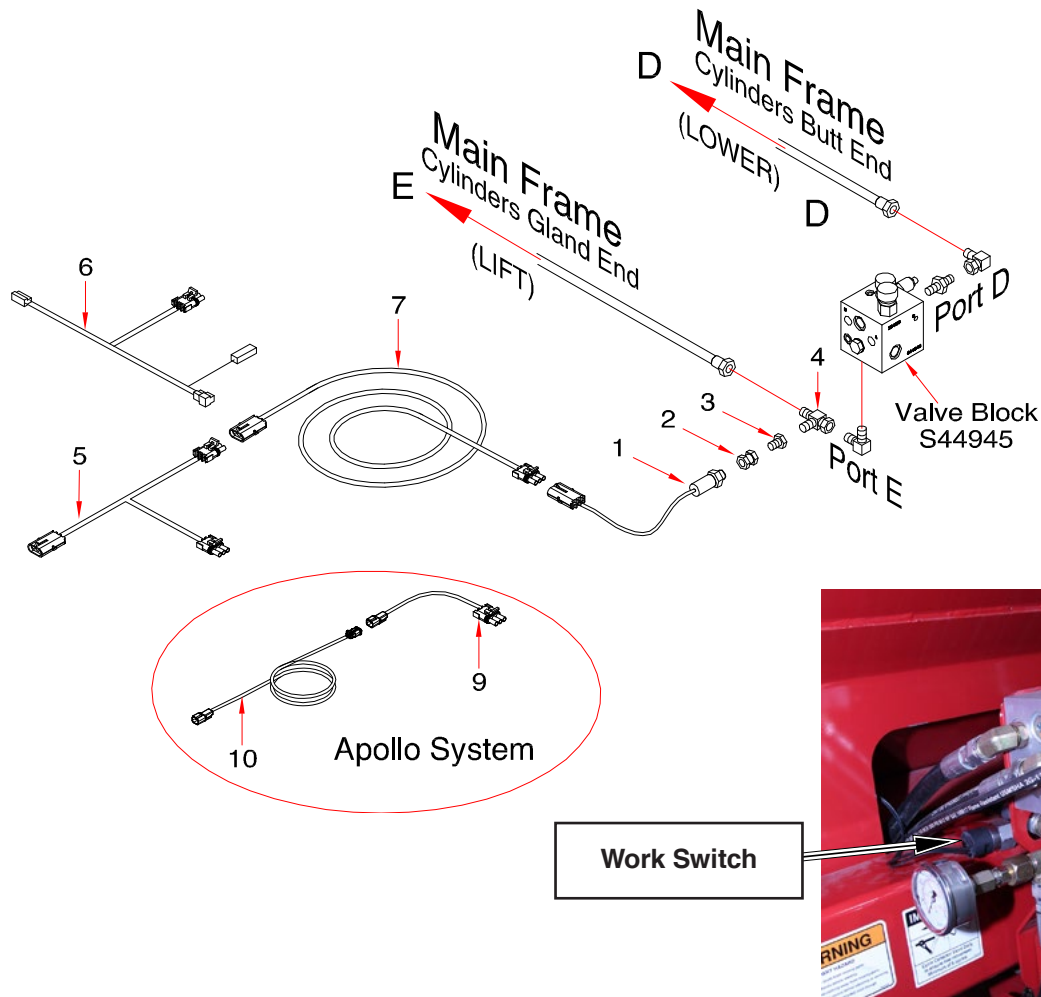
Options Weight Kit



Note: Wrap Weights (1) around beam alternating left to right.

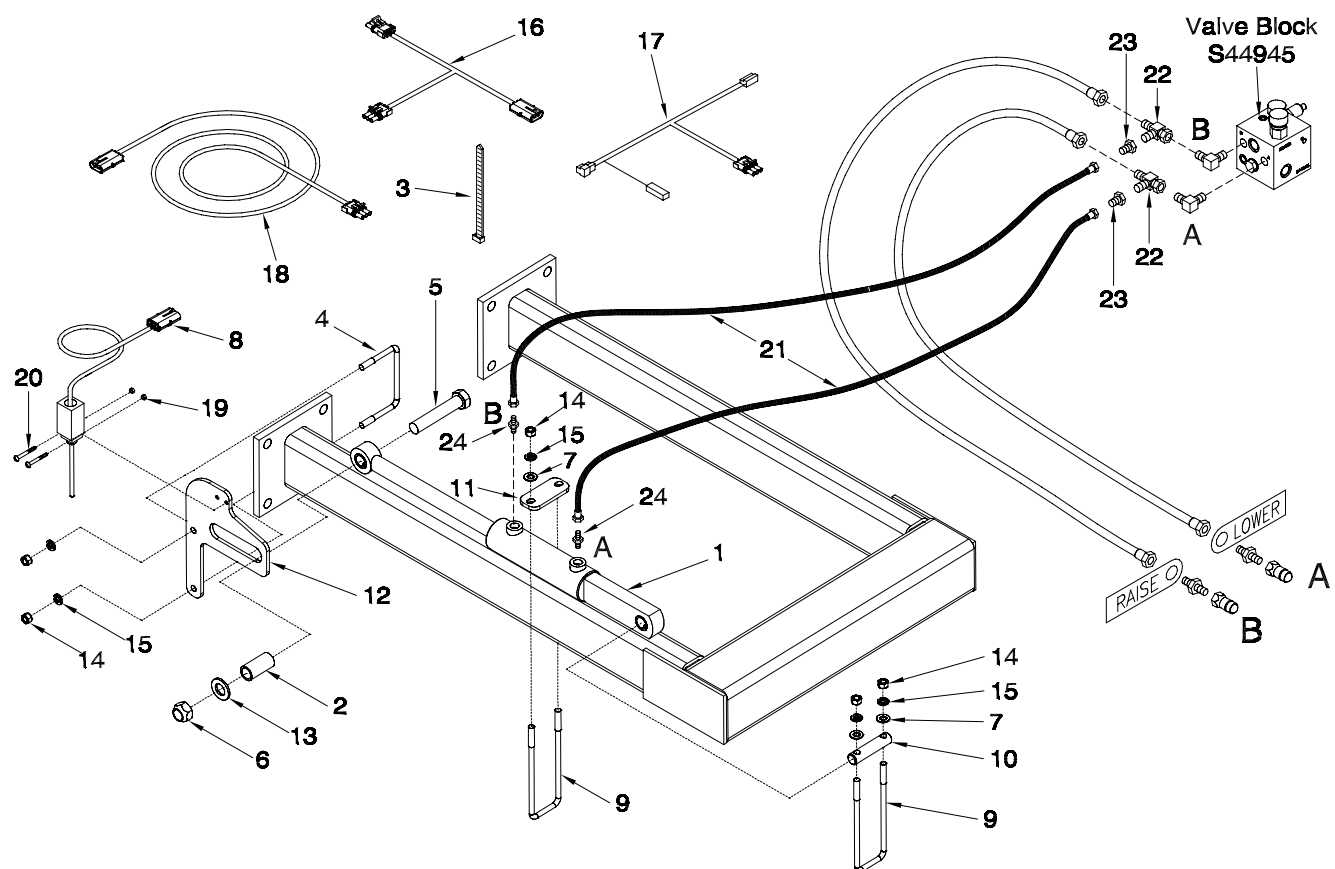
Item	Part No.	Description	Qty
1	N37523	Weight - 50lb	12
2	S44449	Rod - 3/4 Dia x 20 Lg	2
3	W-476	Flat Washer - 3/4.....	2
4	W-518	Hex Nut - 3/4.....	2
5	W-527	Lockwasher - 3/4.....	2
6	S47530	Plate - Weight Kit Stop	1
7	N33342	U-Bolt - 5/8 x 7 x 6 1/2	1
8	W-526	Lockwasher - 5/8.....	2
9	W-517	Hex Nut - 5/8.....	2
	S43741	Weight Kit (Includes all above items)	

Options
Remote Clutch Switch - September 2014 to Present

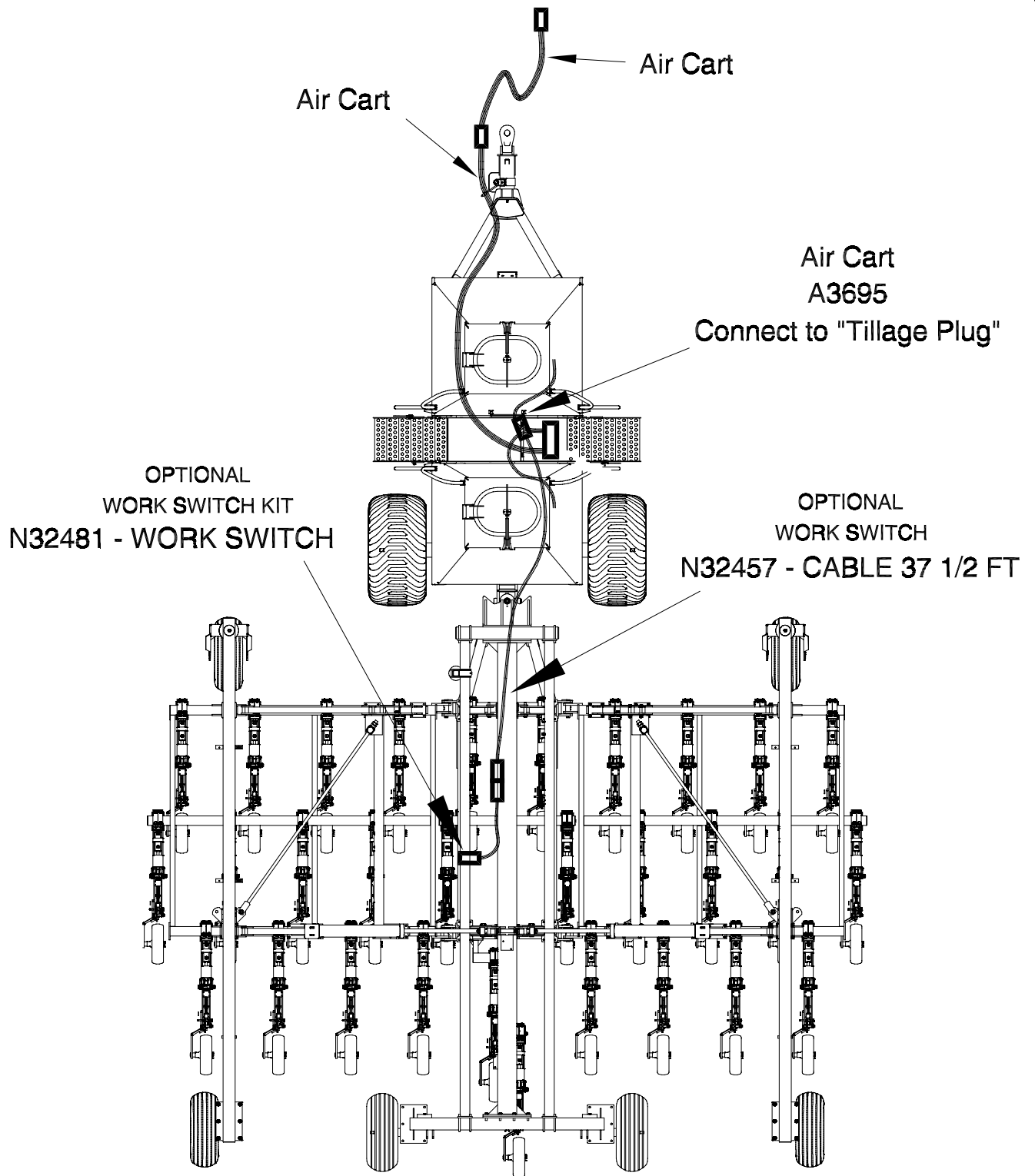


Item	Part No.	Description	Qty
Ground Drive and Base X20 and X30 Systems			
1	S56558	Pressure Switch	1
2	S42998	Connector - 1/4 FNPT x 9/16-18 FJIC	1
3	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
4	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC	1
5	N32482	Connector - 'Y' Wire - Tow Behind ONLY - Weather Pak Ends	1
6	N32483	Connector - 'Y' Wire - Tow Between ONLY - Weather Pak Ends	1
7	N32457	Wire - Clutch Extension (Main) - 37 1/2 ft - Weather Pak Ends.....	1
8	S13336	Tie Strap.....	4
	S54297	Tow Between - Work Switch Kit (Includes Items 1, 2, 3, 4, 6, 7, and 8)	
	S54298	Tow Behind - Work Switch Kit (Includes Items 1, 2, 3, 4, 5, 7, and 8)	
Apollo System - 2016			
1	S56558	Pressure Switch	1
2	S42998	Connector - 1/4 FNPT x 9/16-18 FJIC	1
3	F10384	Connector - 9/16-18 MJIC x 7/8-14 FJIC	1
4	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC	1
9	N60323	Harness Adaptor - Pressure Work Switch.....	1
10	N59010	Harness - Work Switch - 5 m.....	1

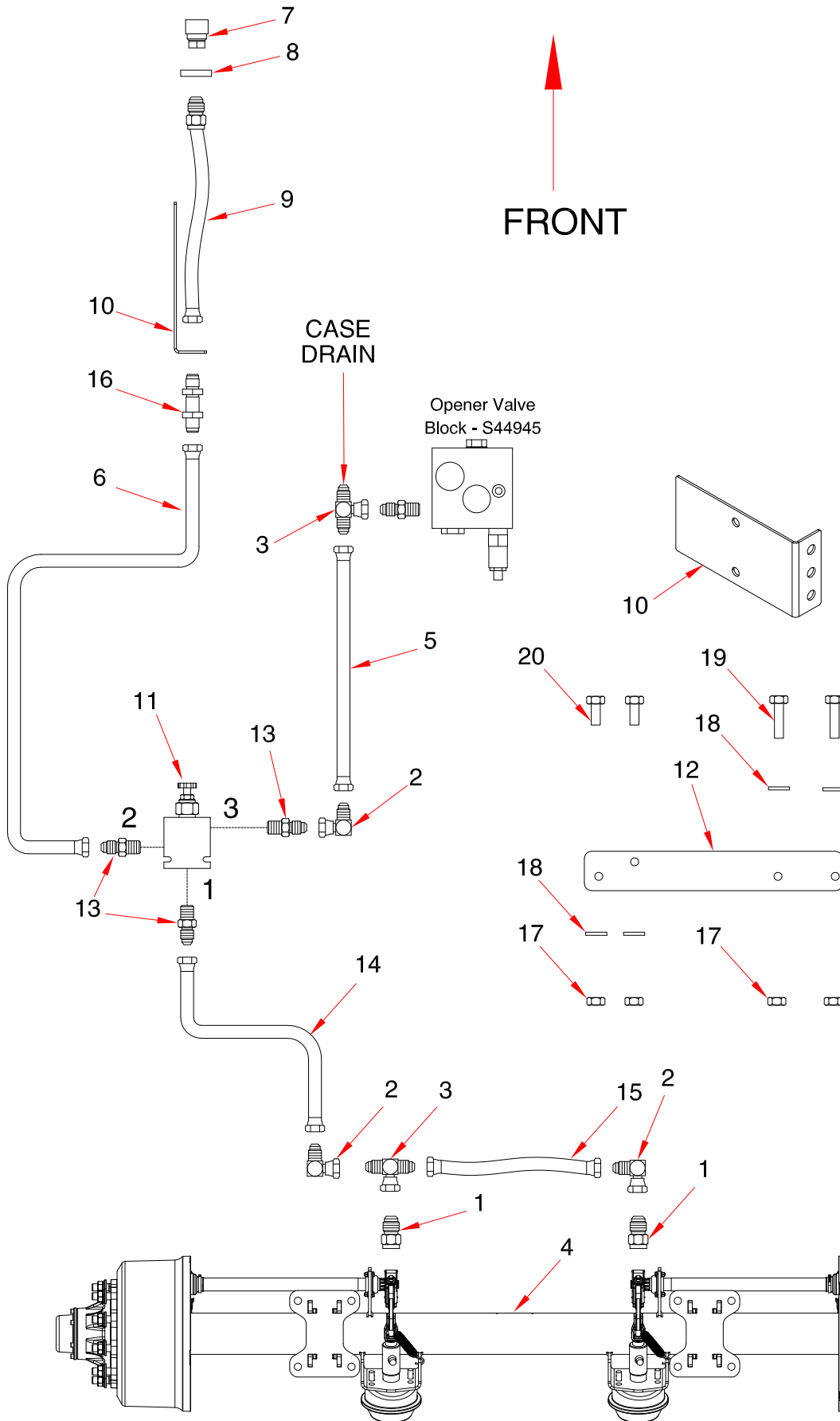
Options Remote Clutch Switch - Prior to September 2014



Item	Part No.	Description	Qty
1	C42912	Hydraulic Cylinder - 1 3/4 Bore x 3 1/4 Stroke	1
2	C33727	Spacer - 1 OD x .760 ID x 2 Lg	1
3	S13336	Tie Strap.....	6
4	D-4932	U-bolt - 3/8 Dia x 4 x 3	1
5	D-5256	Hex Bolt - 3/8 x 4 Lg.....	1
6	D-5273	Unitorque Locknut - 3/4.....	1
7	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga.....	4
8	N32481	Workswitch	1
9	N34423	U-bolt - 3/8 Dia x 2 x 7	2
10	S44423	Pin - 3/4 Dia	1
11	S44426	Clamp.....	1
12	S44427	Workswitch Mounting Plate	1
13	W-476	Flatwasher - 3/4	1
14	W-514	Hex Nut - 3/8.....	6
15	W-523	Lockwasher - 3/8.....	6
16	N32482	Connector - 'Y' Wire - Tow Behind ONLY - Weather Pak Ends	1
17	N32483	Connector - 'Y' Wire - Tow Between ONLY - Weather Pak Ends	1
18	N32457	Wire - Clutch Extension (Main) - 37 1/2 ft - Weather Pak Ends.....	1
19	N32102	Nut - 3/16	2
20	N32101	Stove Bolt - 3/16 x 1 1/2 Lg	2
21	S22406	Hydraulic Hose - 1/4 x 72 Lg - 9/16 FJIC.....	2
22	H18746	Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC.....	2
23	F10384	Reducer - 9/16-18 MJIC x 7/8-14 FJIC	2
24	N29358	Connector - 9/16-18 MJIC x 9/16-18 MORB.....	2



Hydraulic Brake Assembly



Hydraulic Brake Assembly

Item	Part No.	Description	Qty
1	K50963	Connector - 3/8 MJIC x 3/8 Female BSPP.....	2
2	S29967	Elbow - 90 - 9/16-18 MJIC x 9/16-18 FJIC swivel	3
3	C14901	Tee - (2)9/16-18 MJIC x (1)9/16-18 FJIC - M-F-M.....	2
4	N66765	Axle - Hydraulic/Air Brake - 2019 to Present.....	1
	N55165	Axle - Hydraulic/Air Brake - Prior to 2019	
5	W21962	Hyd Hose - 1/4 x 108 Lg w/ 9/16-18 FJIC swivel ends.....	1
6	D17585	Hyd Hose - 1/4 x 176 Lg w/ 9/16-18 FJIC swivel ends.....	1
7	K50954	Brake Coupler - Female - 08 (1/2 inch) M18 x 1.5 Thread	1
8	K51052	Bonded Seal - 18mm Male DIN (9500-18mm)	1
9	K50988	Brake Hose - 3/8 x 78 Lg w/ M18 x 1.5 Male DIN x 9/16-18 FJIC	1
10	N55166	Bulkhead Mount.....	1
11	S42307	Pressure Reducing Valve.....	1
12	K50989	Mount Plate.....	1
13	C15348	Connector - 3/4-16 MORB x 9/16-18 MJIC	3
14	C14835	Hyd Hose - 1/4 x 36 Lg w/ 9/16-18 FJIC swivel ends	1
15	K50993	Hyd Hose - 1/4 x 28 Lg w/ 9/16-18 FJIC swivel ends	1
16	K50962	Bulkhead - 9/16-18 MJIC	1
17	N42510	Locknut - 1/4 Centre Lock.....	4
18	S-1198	Flatwasher - 1/4	4
19	W-1540	Hex Bolt - 1/4 x 2 Lg.....	2
20	W-469	Hex Bolt - 1/4 x 3/4 Lg.....	2

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