



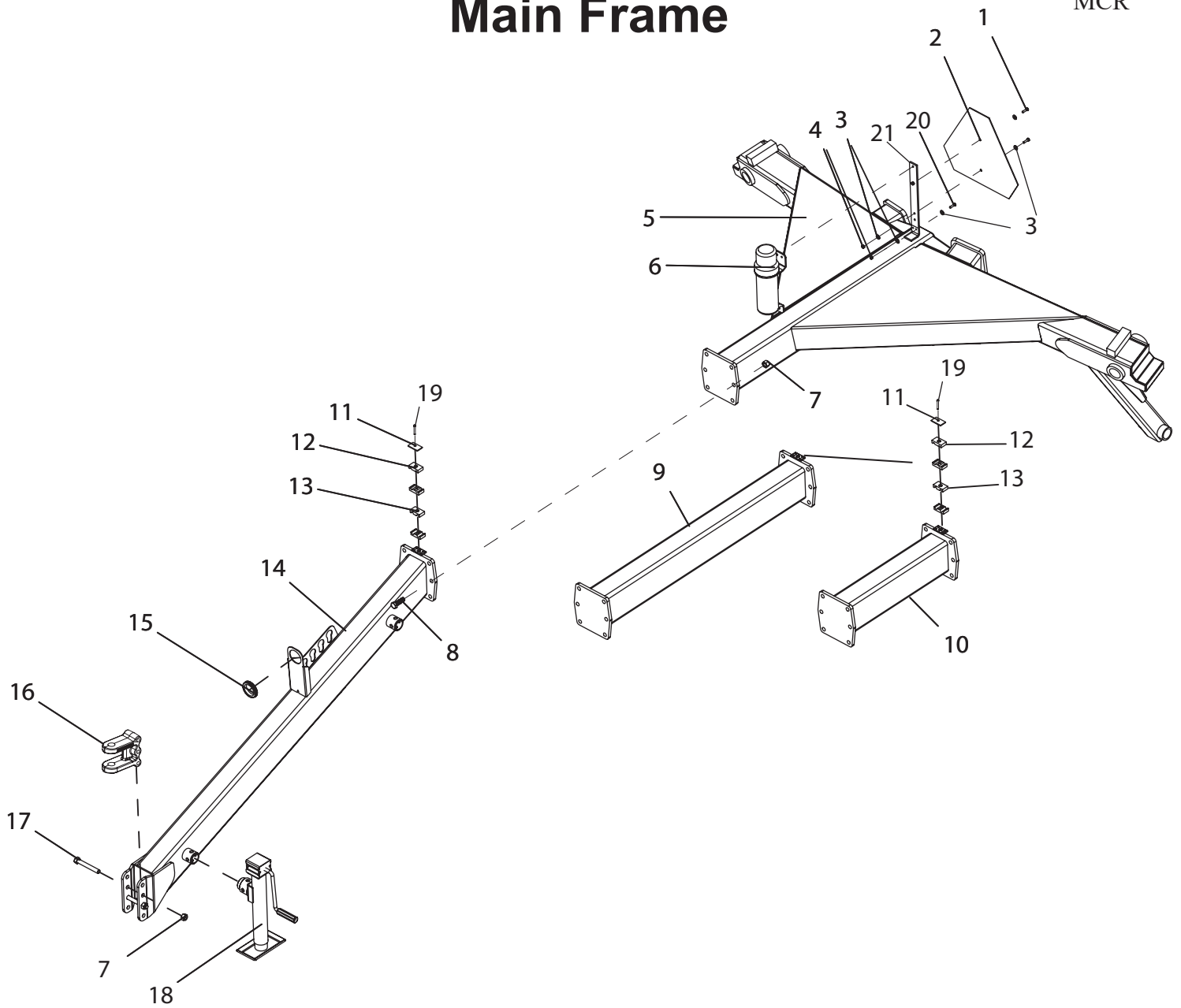
MidCap Rake

Illustrated Parts Breakdown

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Main Frame

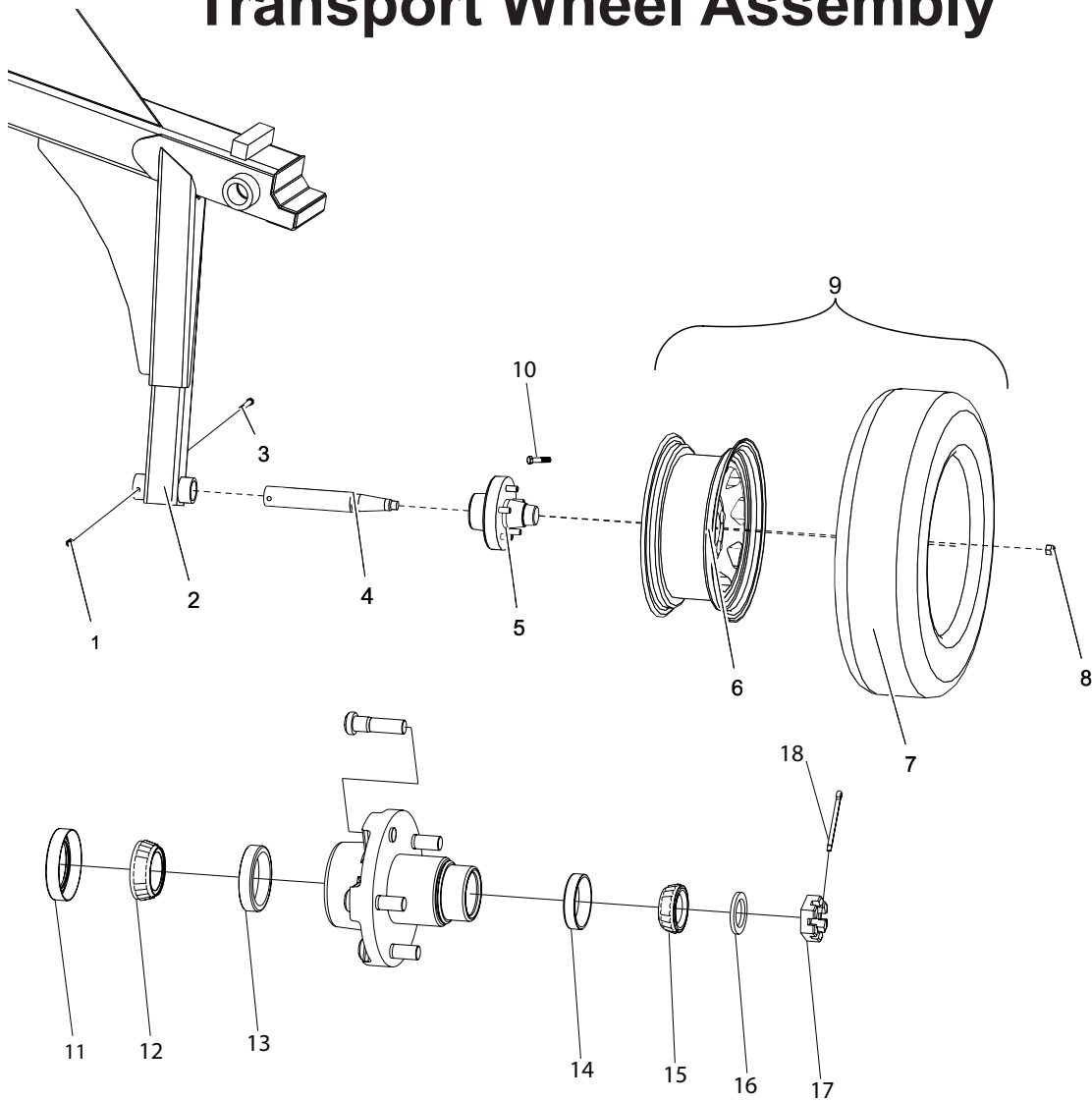
MCR



ID	Description	Part #
1	1/4-20 x 1-1/4 HH Bolt Gr5	000184
2	Fanny Flag	507166
3	1/4 USS Flat Washer	001020
4	1/4 Lock Nut, Zinc	003001
5	TR Main Frame	510505
6	Ops Manual Cylinder	503050
7	5/8-11 Top Lock Nut, Zinc	900145
8	5/8-11 x 2 Hex Head Bolt	000615
9	12 Wheel Ext. Tongue	510572

ID	Description	Part #
11	Hose Clamp Top Plate	510630
12	1/4" Clamp Block	510632
13	3/8 Clamp Block	507300
14	Front Tongue Section	510530
15	Grommet	510621
16	2 Hole Clevis	507018
17	5/8-11 x 4.5 HH Bolt, Zinc	000645
18	2K Side Wind Jack	903317
19	5/16-18 X 1-1/2 HH Bolt, Zinc	000225
20	1/4-20 x 1" HH Bolt Gr5	100148
21	MCR SMV Mounting Bracket	510674

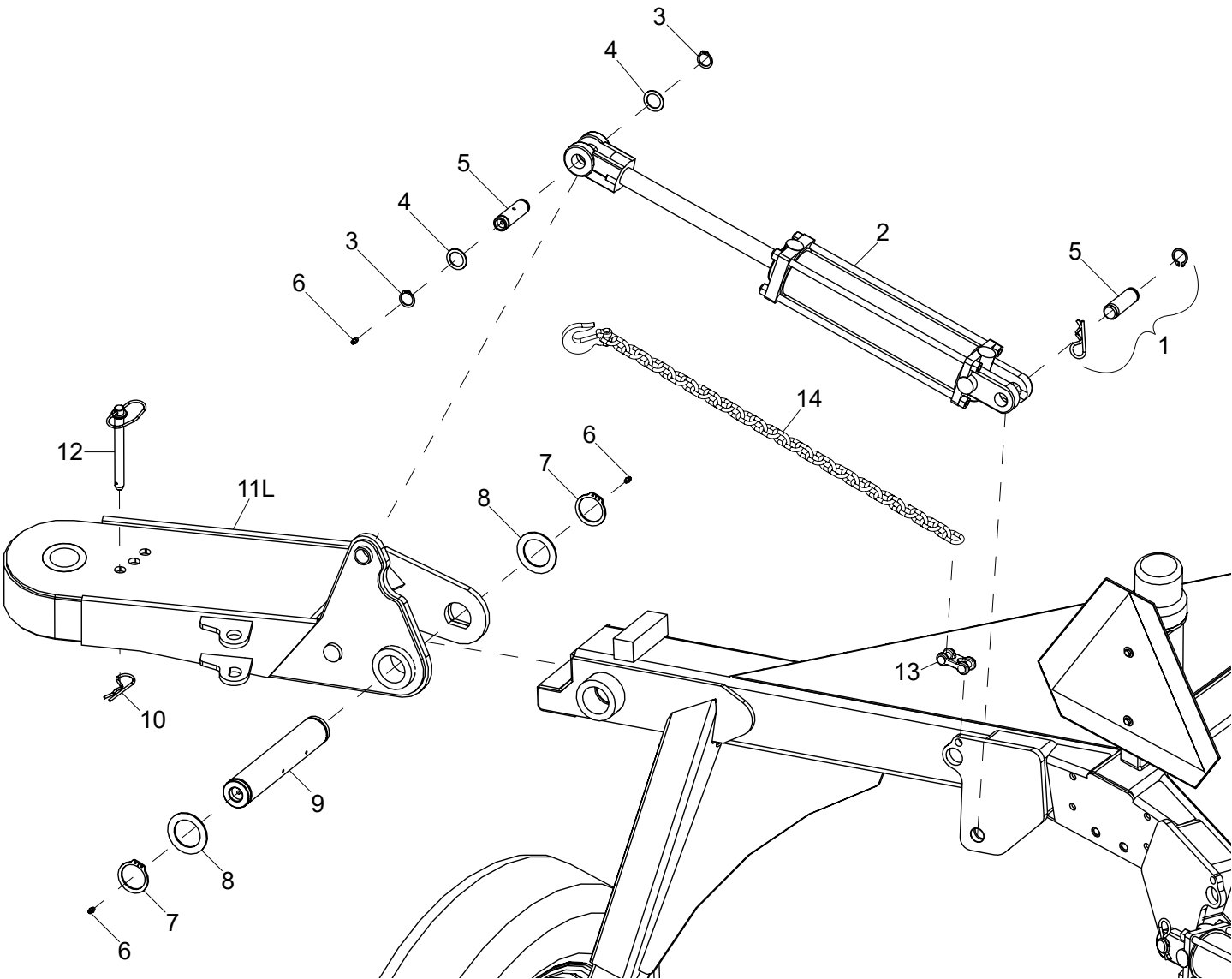
Transport Wheel Assembly



ID	Description	Part #	Qty
1	3/8"-16 Nylon Lock Nut	003000	1
2	TR Main Frame	510505	1
3	3/8"-16 x 3" Hex Head Bolt	000307	1
4	1-3/4" x 12" Spindle	508027	1
5	545 Hub Assembly	508026	1
6	Rim, 15 x 6-6 White Spoke	102186	1
7	Tire, 205/75 D15	100723	1
8	1/2" Cone Wheel Nut	101458	1
9	Tire and Rim, Mounted	100284	1
10	Hub Stud	508505	6

ID	Description	Part #	Qty
11	Grease Seal, 545 Hub	508500	1
12	Bearing, L68149	508501	1
13	Race, L68111	508502	1
14	Race, L44610	508504	1
15	Bearing, L44649	508503	1
16	1" x 1-1/2 Machinery Bushing	001006	1
17	Slotted Spindle Nut	101440	1
18	5/32 X 1-3/4 Cotter Pin	300282	1

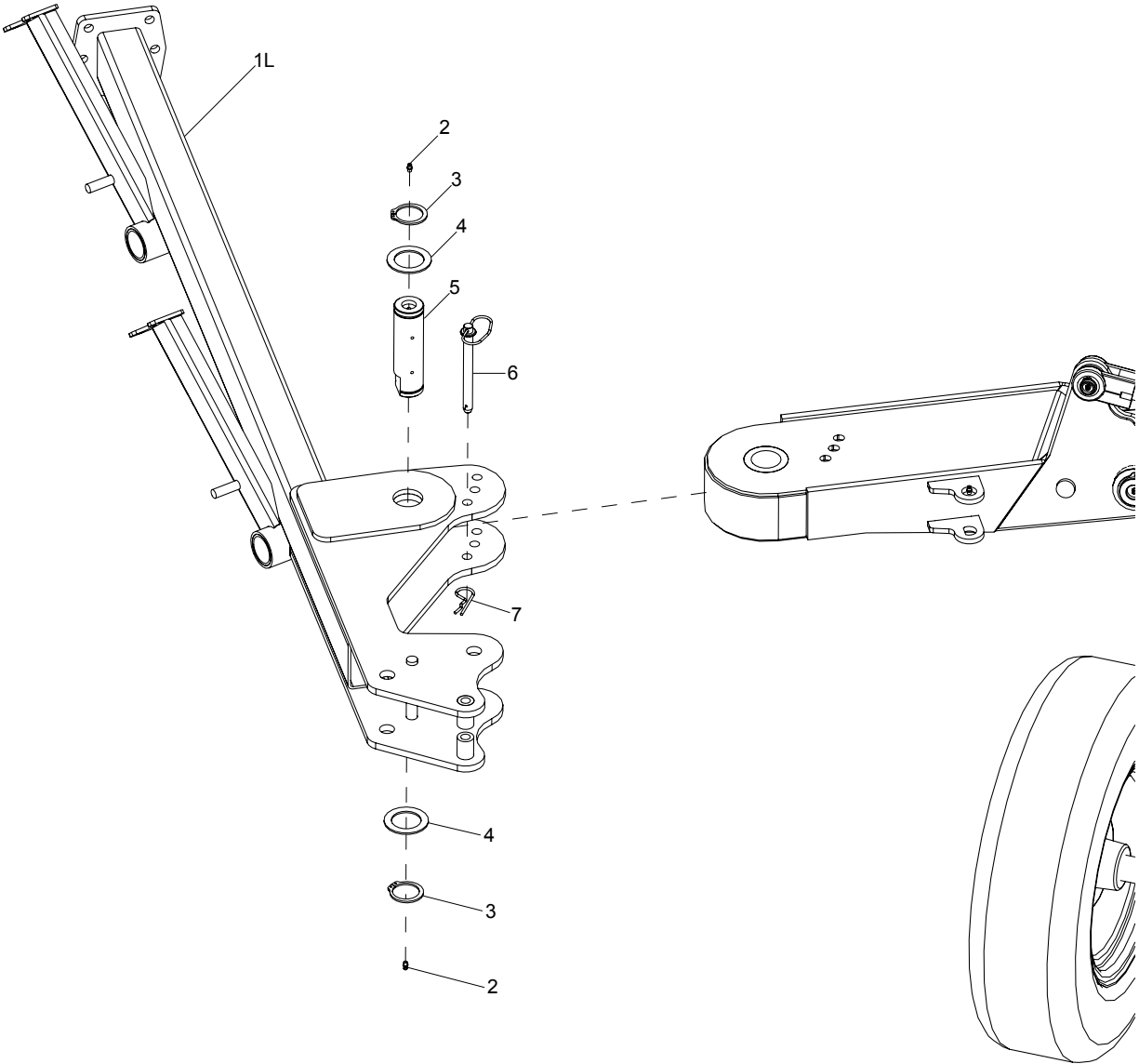
Lift Arm Assembly



ID	Description	Part #
1	Clevis Pin with Hairpin and Snap Ring	507273
2	3 x 12 Tie Rod Cylinder	510586
3	1" Heavy Duty Ext. Retaining Ring Zinc Plated	702883Z
4	1" X 1-1/2 Machinery Bushing 14GA	001008
5	Outer Cylinder Pin	510574
6	1/4-28 Spin-Drive Grease Zert	400117
7	2" (.63 thick)EXT. RETAINING RING YZ	510548
8	Pivot Washer	510553

ID	Description	Part #
9	Wing Pivot Shaft	510552
10	0.148" x 3-5/16" OAL Zinc Plated Hairpin Cotter	100216
11L	Lift Arm Assembly, Left	510515
11R	Lift Arm Assembly, Right (not shown)	510510
12	5/8" x 6-1/2" Pin	510641
13	Safety Chain Clevis	510656
14	MCR Chain (30" Overall Length)	510675

Main Beam Assembly

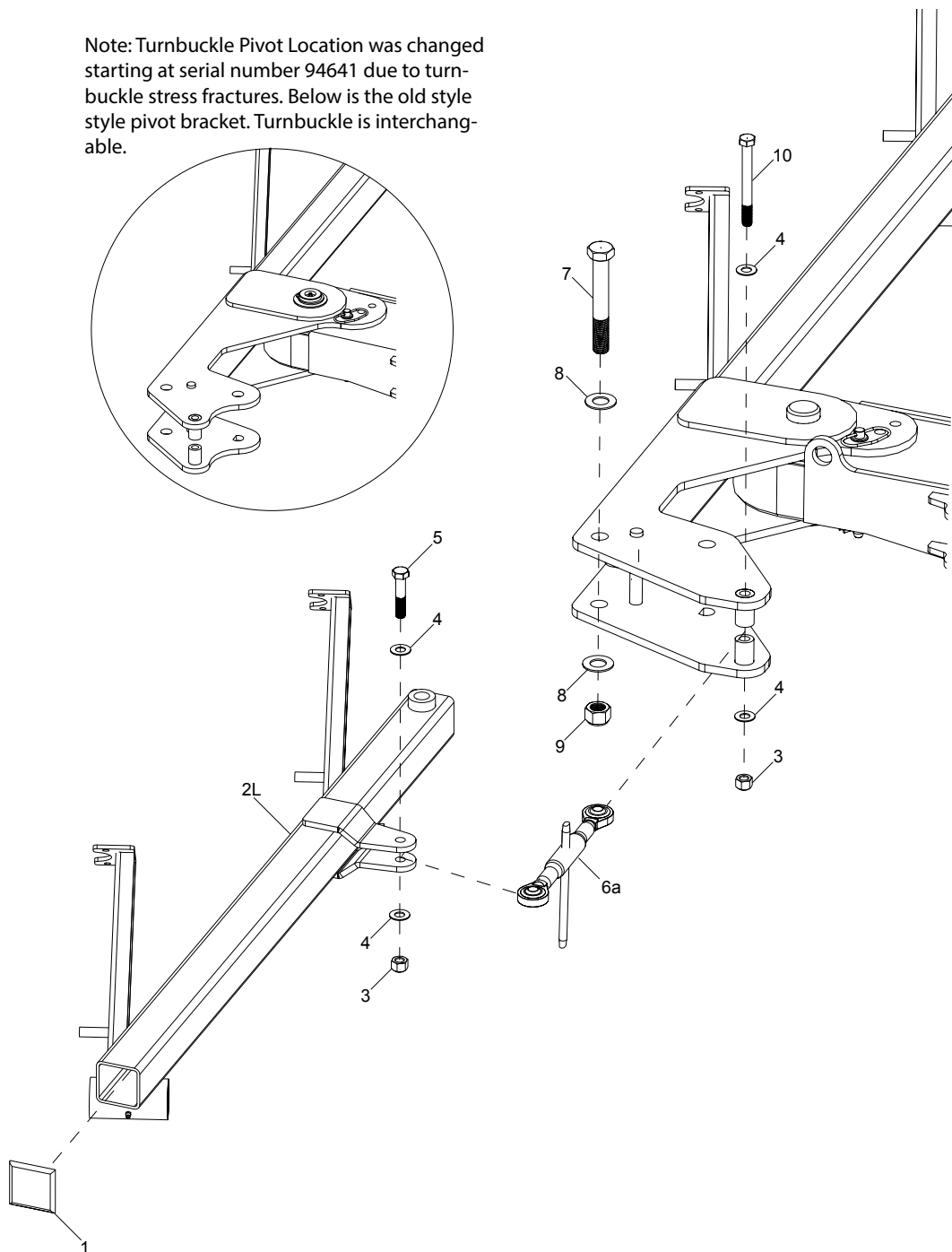


ID	Description	Part #
1L	Left Main Beam	510532
1R	Right Main Beam (not shown)	510512
2	1/4-28 Spin-Drive Grease Zert	400117
3	2" External Snap Ring (Zinc Plated)	510548
4	Pivot Washer, Plated	510553
5	Arm Pivot Shaft	510557
6	5/8" 6-1/2" Pin	510641
7	Hairpin Cotter	100216

Rear Beam Assembly

MCR

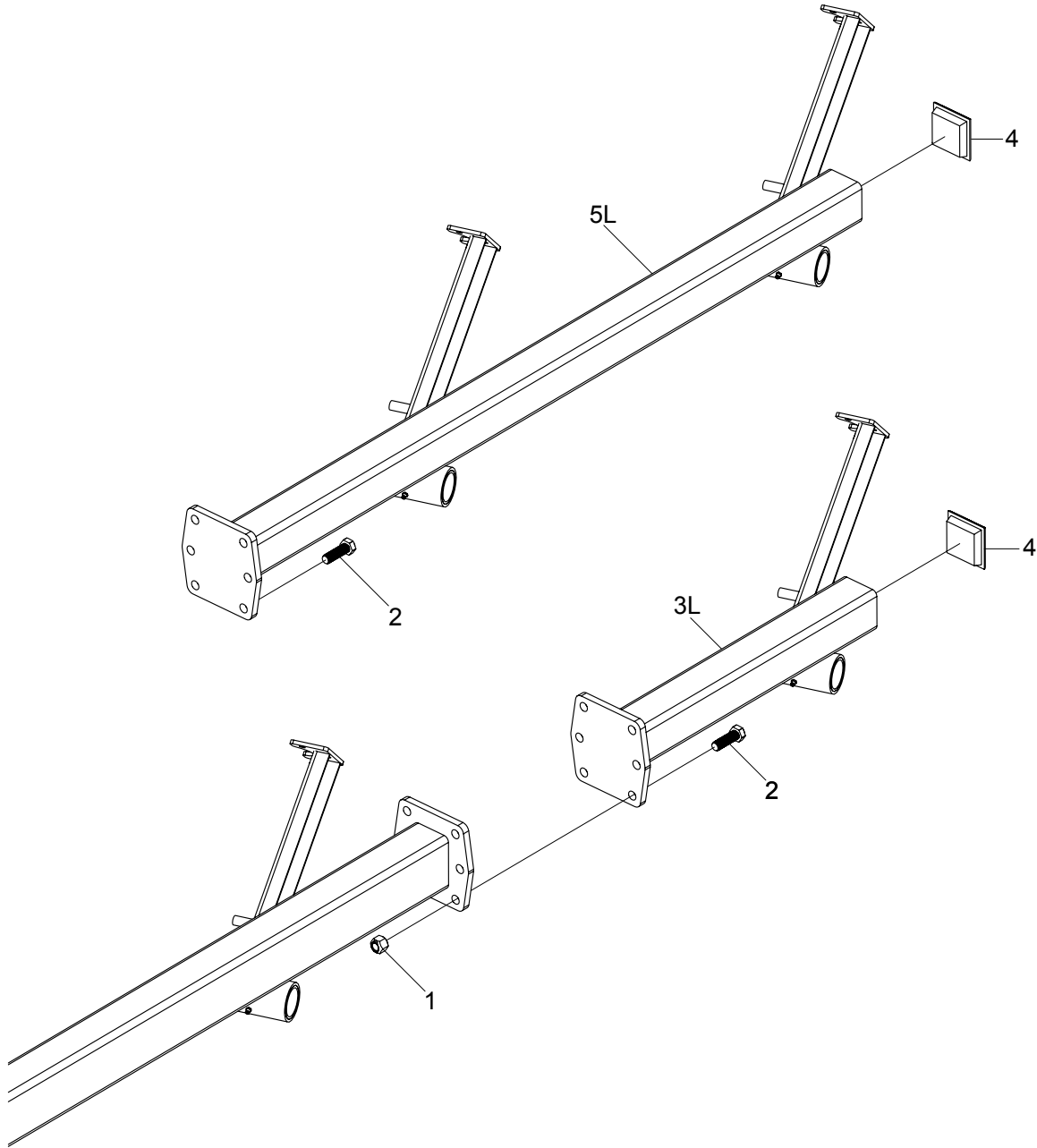
Note: Turnbuckle Pivot Location was changed starting at serial number 94641 due to turnbuckle stress fractures. Below is the old style pivot bracket. Turnbuckle is interchangeable.



ID	Description	Part #
1	Plastic Caps	508090
2L	Left Rear Wheel Beam	510535
2R	Right Rear Wheel Beam (not shown)	510534
3	5/8" Nylon Lock Nut, Zinc	000972
4	5/8" SAE Flat Washer	001076
5	5/8" x 3" Hex Head Bolt	010019

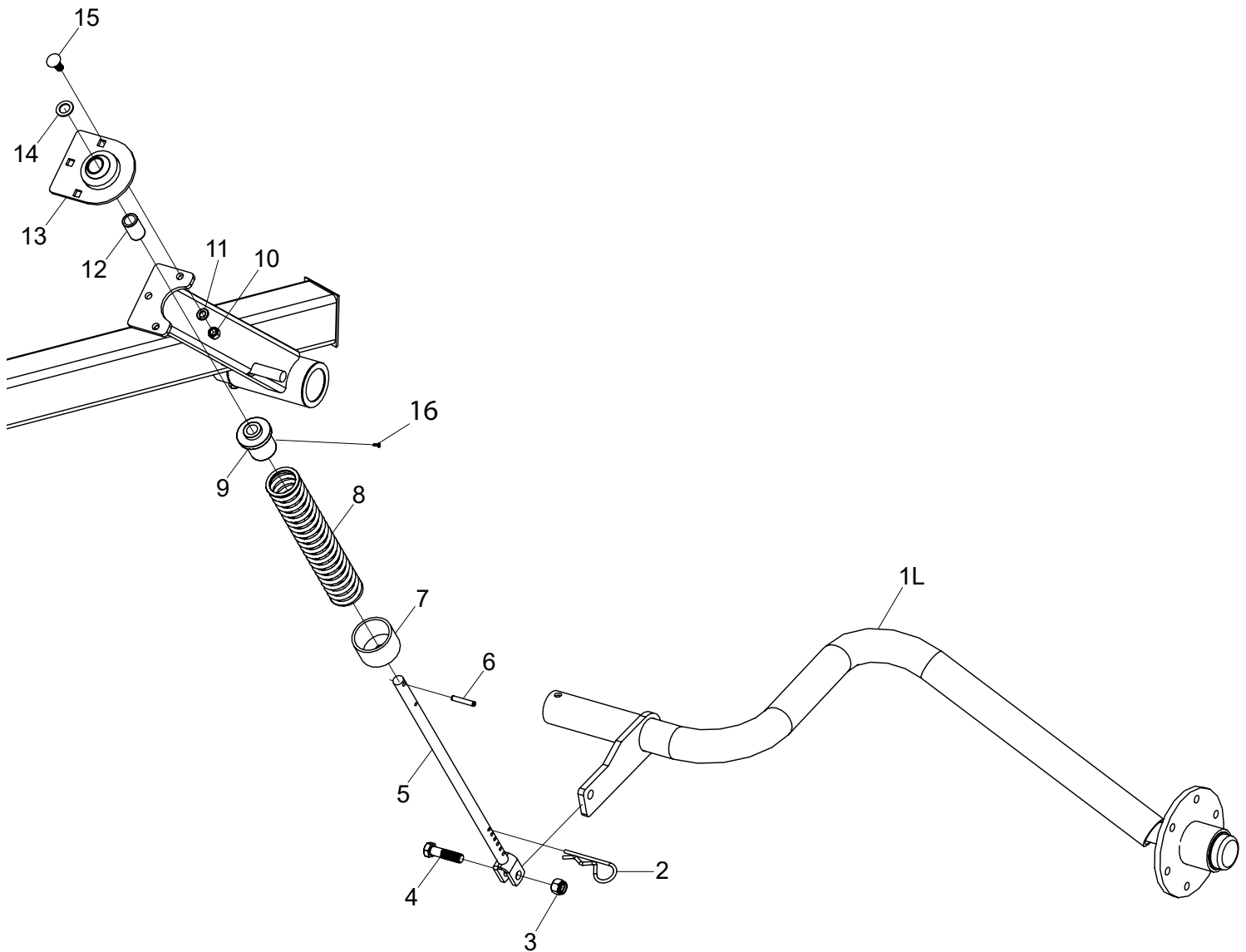
ID	Description	Part #
6a	10" Turnbuckle S/N under 94641	510677
6b	10" Turnbuckle S/N over 94641	505259
7	1" x 7" Hex Head Bolt	000789
8	1" SAE Flat Washer Zinc	000879
9	1" Nylon Locknut	001012
10	5/8" x 6" Hex Head Bolt	000665

Front Beam Extensions for 10 & 12 Wheel Rakes



ID	Description	Part #
1	5/8-11 Top Lock Nut, Zinc	900145
2	5/8" x 2" Hex Head Bolt	000615
3L	10 Wheel Beam Extension, Left	510605
3R	10 Wheel Beam Extension, Right (not shown)	510603
4	Plastic Cap	508090
5L	12 Wheel Beam Extension, Left	510545
5R	12 Wheel Beam Extension, Right (not shown)	510546

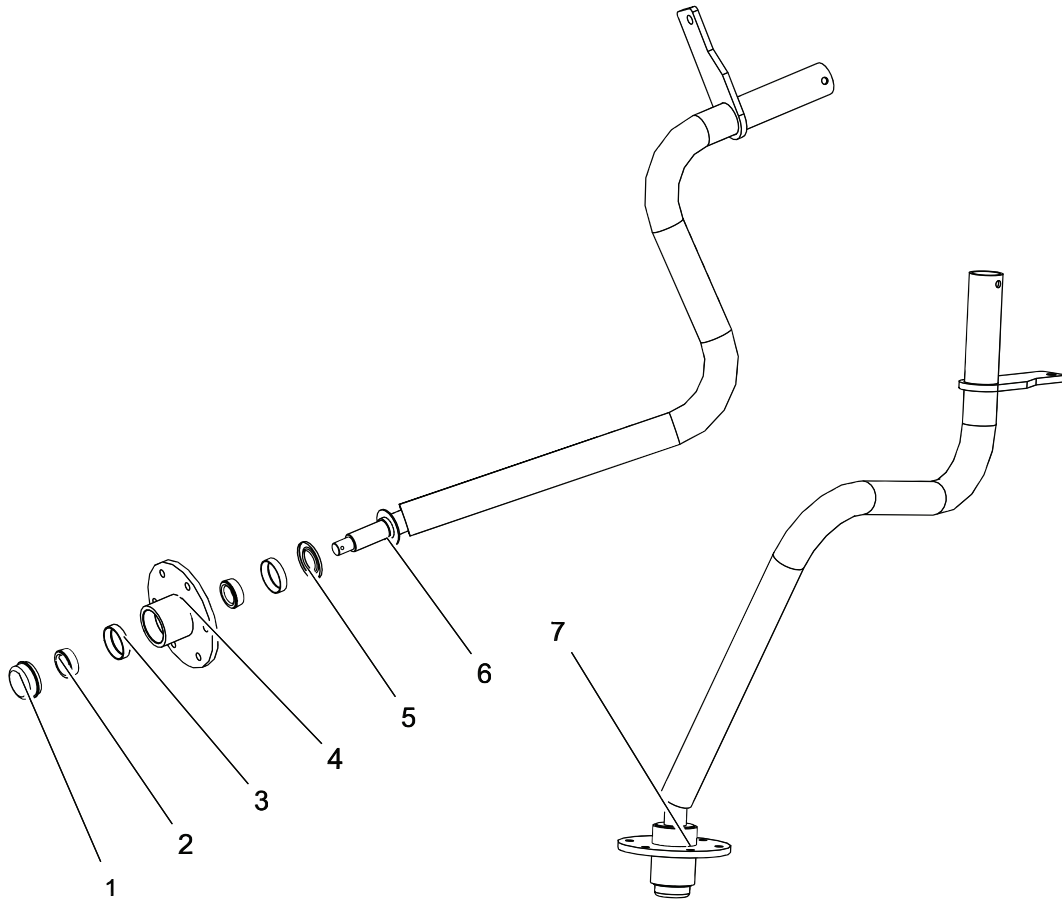
Wheel Arm Spring Assembly



ID	Description	Part #
1L	Left Wheel Arm Weldment	508965
1R	Right Wheel Arm Weldment	508967
2	Hairpin Cotter,- .178 Wire X 3"	507340
3	1/2" Nylon Locknut	000950
4	1/2-13 X 2 Hex Head Bolt, Gr.5	000452
5	Spring Assist Rod Weldment	510575
6	1/4 X 1-1/2 Roll Pin Galvanize	000564
7	Spring Cap Weldment, Plated	508918

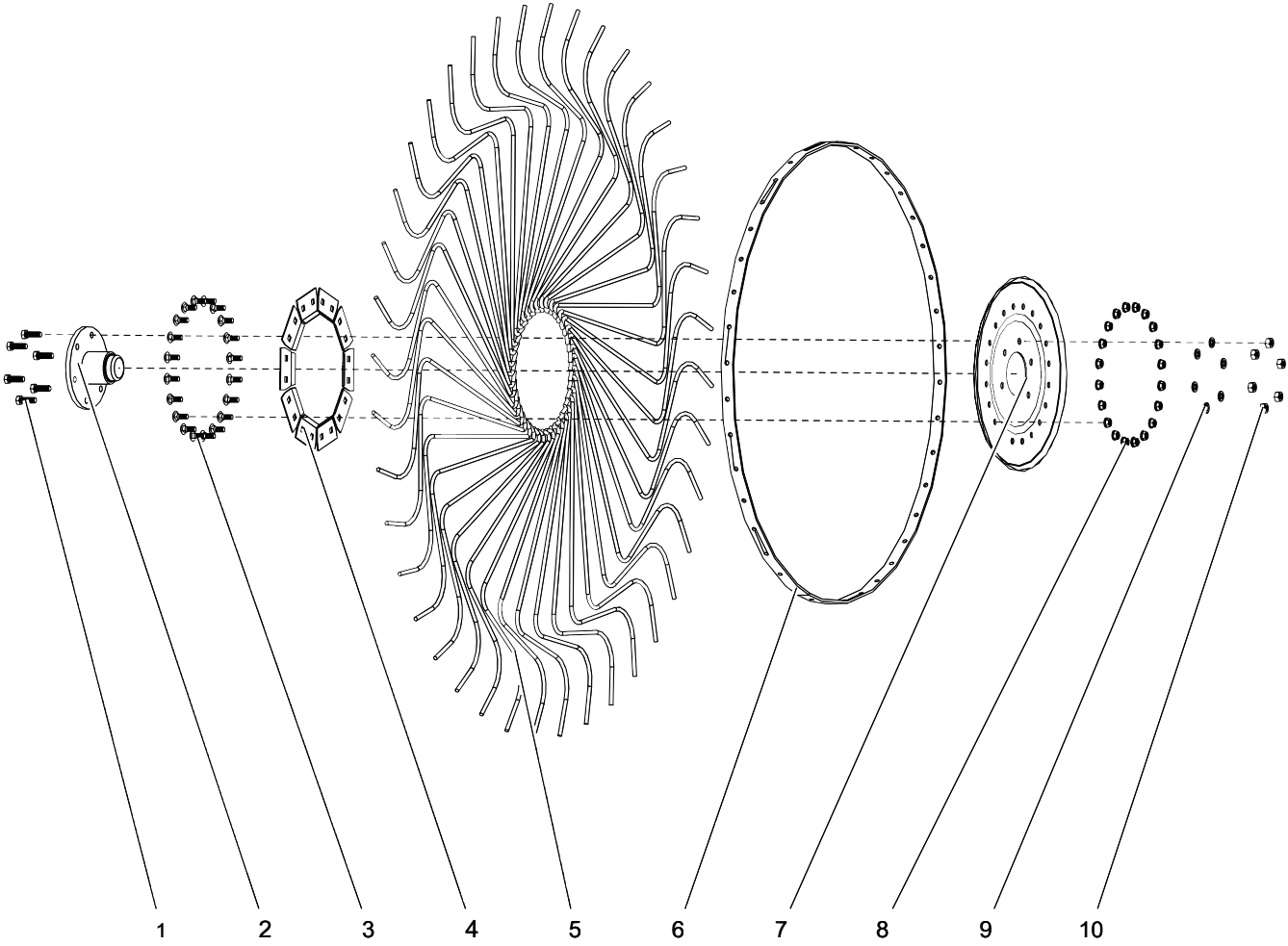
ID	Description	Part #
8	Wheel Lift Spring	508900
9	Plastic Spring Insert	510516
10	3/8" Hex Nut	000915
11	3/8" Lock Washer	000820
12	Ball Bushing	510517
13	Spring Assist Weldment	508964
14	5/8" SAE Flat Washer	001076
15	3/8" x 1" Carriage Bolt	000125
16	#12 X 3/4 Sheet Metal Screw	000106

Wheel Arm Hub Assembly



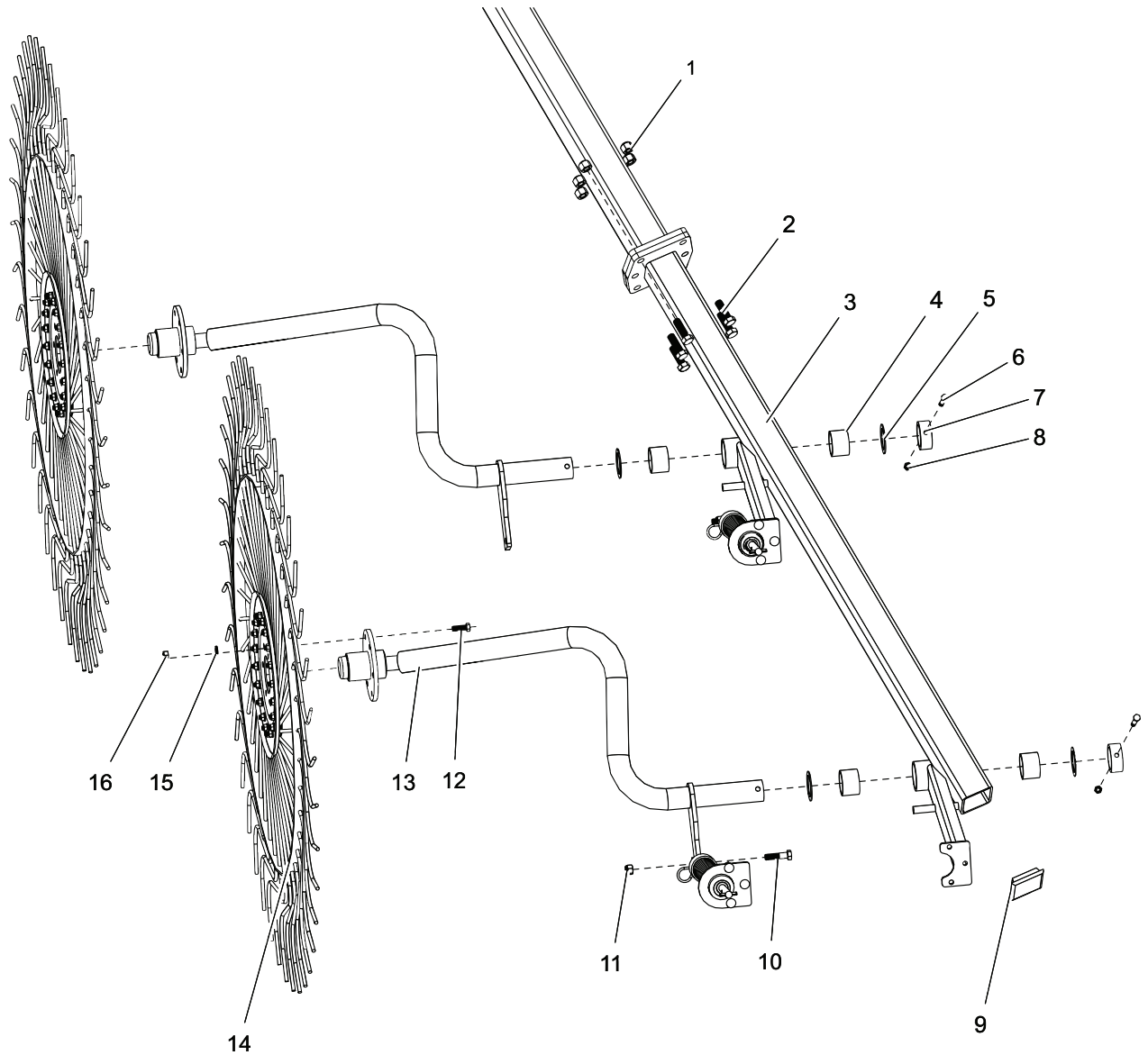
ID	Description	Part #	Qty
1	1.98" OD Dust Cap	508144	1
2	L44649 Tapered Bearing	101469	2
3	L44610 Race	101471	2
4	Rake Wheel Hub	508423	1
5	1.25 ID x 2.25 OD x .25 Seal	508137	1
6	Left Wheel Arm Weldment	508965	1
7	Right Wheel Arm Weldment	508967	1

Rake Wheel Assembly



ID	Description	Part #	Qty
1	7/16-14 x 1-1/4 Hex Head Bolt	000355	6
2	Rake Wheel Hub Assembly	508141	1
3	3/8-16 x 1 Carriage Bolt	000125	20
4	Tine Mounting Bracket	508191	10
5	Turbo Rake Tine	508086	40
6	Tine Ring	508158	1
7	Rake Wheel Hub	508087	1
8	3/8-16 Serrated Flange Nut, Zinc	000916	20
9	7/16 Split Lock Washer	000830	6
10	7/16-14 Hex Nut	000935	6

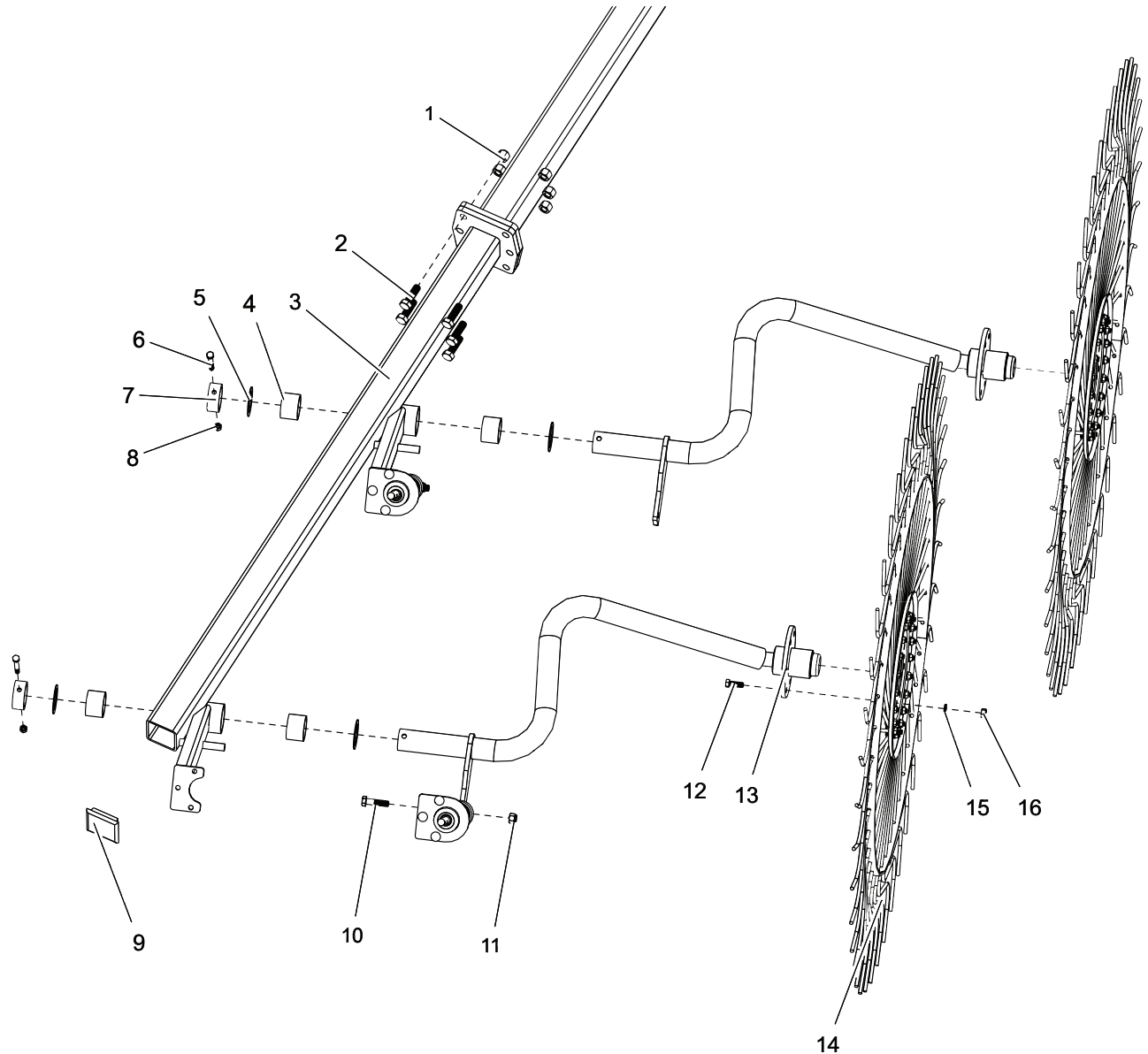
12 Wheel Beam Extension,-Right



ID	Description	Part #	Qty
1	5/8-11 Top Lock Nut, Zinc	900145	6
2	5/8-11 x 2 Hex Head Bolt	000615	6
3	TR-12 Right Extension	510546	1
4	Wheel Arm Bushing	508076	4
5	Wheel Arm Washer	508417	4
6	3/8-16 x 3 Hex Head Bolt	000307	2
7	Wheel Arm Retainer	508070	2
8	3/8-16 Nylon Lock Nut	003000	2

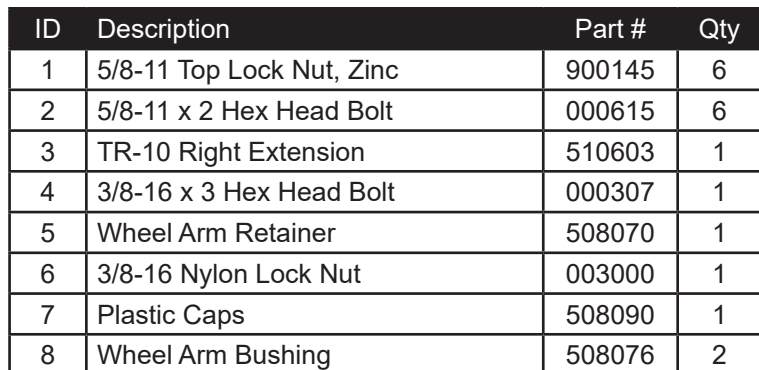
ID	Description	Part #	Qty
9	Plastic Caps	508090	1
10	1/2-13 x 3 Hex Head Bolt	000452	2
11	1/2-13 Nylon Lock Nut	000950	2
12	7/16-14 x 1-1/4 Hex Head Bolt	000355	12
13	Right Wheel Arm Weldment	508967	2
14	55" Finger Wheel Assembly, Right	508085	2
15	7/16 Split Lock Washer	000830	12
16	7/16-14 Hex Nut	000935	12

12 Wheel Beam Extension,-Left

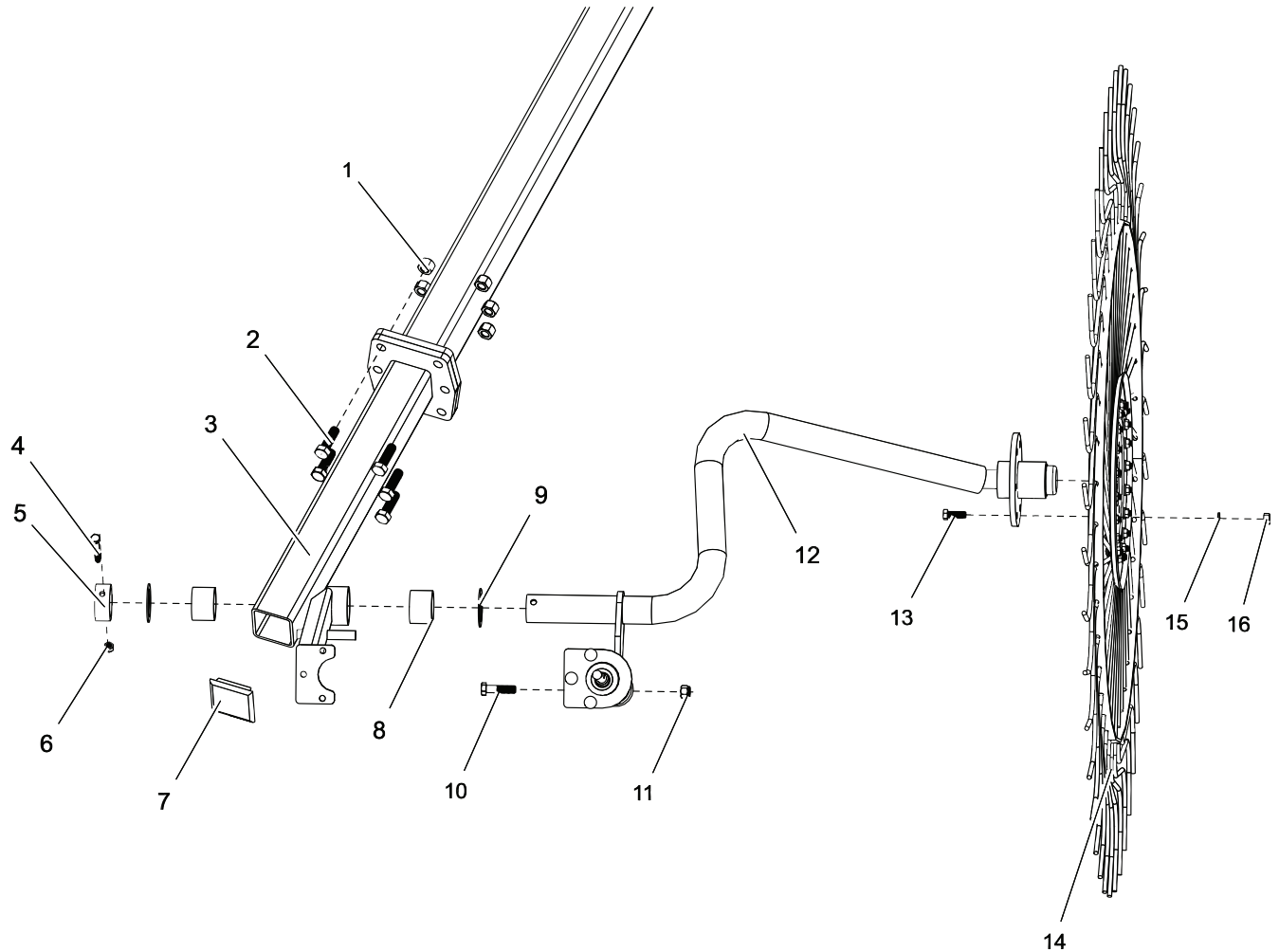


ID	Description	Part #	Qty
1	5/8-11 Top Lock Nut, Zinc	900145	6
2	5/8-11 x 2 Hex Head Bolt	000615	6
3	Left 12 Wheel Ext.	510545	1
4	Wheel Arm Bushing	508076	4
5	Wheel Arm Washer	508417	4
6	3/8-16 x 3 Hex Head Bolt	000307	2
7	Wheel Arm Retainer	508070	2
8	3/8-16 Nylon Lock Nut	003000	2

ID	Description	Part #	Qty
9	Plastic Caps	508090	1
10	1/2-13 x 3 Hex Head Bolt	000452	2
11	1/2-13 Nylon Lock Nut	000950	2
12	7/16-14 x 1-1/4 Hex Head Bolt	000355	12
13	Left Wheel Arm Weldment	508965	2
14	55" Finger Wheel Assembly, Left	508194	2
15	7/16 Split Lock Washer	000830	12
16	7/16-14 Hex Nut	000935	12

12

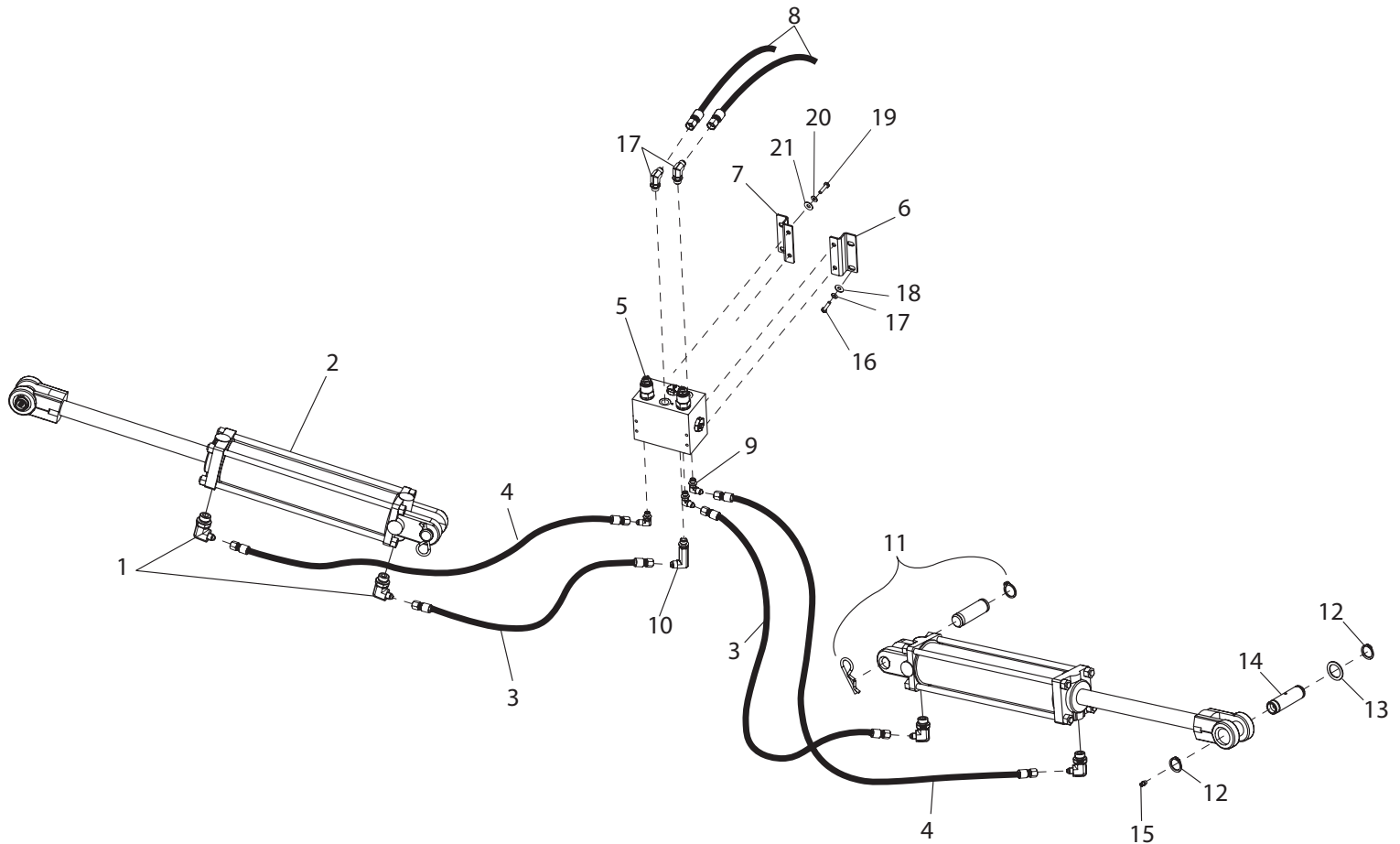
10 Wheel Beam Extension,-Left



ID	Description	Part #	Qty
1	5/8-11 Top Lock Nut, Zinc	900145	6
2	5/8-11 x 2 Hex Head Bolt	000615	6
3	TR-10 Left Extension	510605	1
4	3/8-16 x 3 Hex Head Bolt	000307	1
5	Wheel Arm Retainer	508070	1
6	3/8-16 Nylon Lock Nut	003000	1
7	Plastic Caps	508090	1
8	Wheel Arm Bushing	508076	2

ID	Description	Part #	Qty
9	Wheel Arm Washer	508417	2
10	1/2-13 x 3 Hex Head Bolt	000452	1
11	1/2-13 Nylon Lock Nut	000950	1
12	Left Wheel Arm Weldment	508965	1
13	7/16-14 x 1-1/4 Hex Head Bolt	000355	6
14	55" Finger Wheel Assembly, Left	508194	1
15	7/16 Split Lock Washer	000830	6
16	7/16-14 Hex Nut	000935	6

Beam Lift Hydraulics

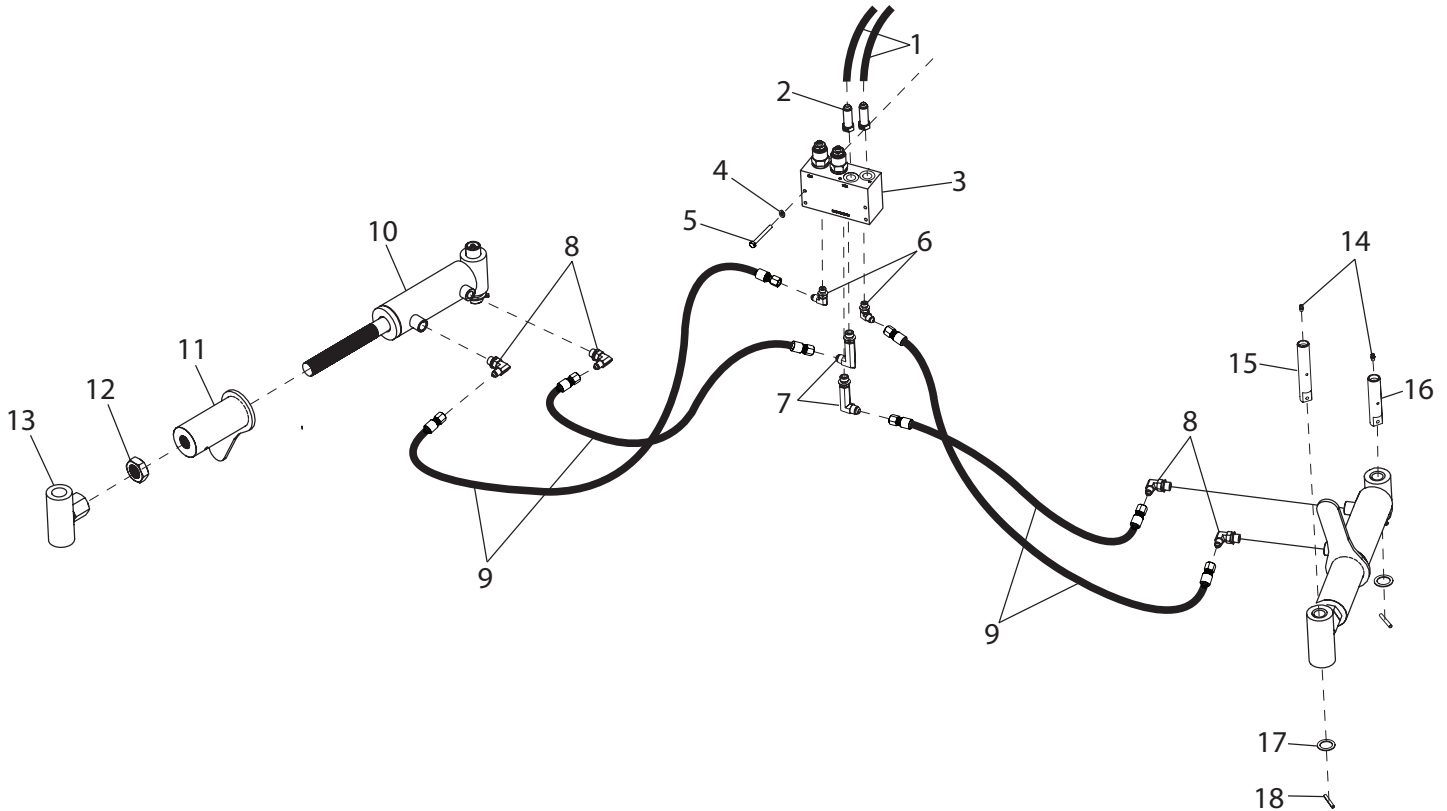


ID	Description	Part #	Qty
1	90° Elbow, #4 MJ x #8 MB	290255	4
2	3 x 12 Tie Rod Cylinder	510586	2
3	Lift Cylinder Hose, Base	510615	2
4	Lift Cylinder Hose, Rod End	510614	2
5	Turbo Rake Manifold	510589	1
6	Right Manifold Foot	510640	1
7	Left Manifold Foot	510639	1
8a	8 Wheel Tractor Hose	510651	2
8b	10 Wheel Tractor Hose	510650	2
8c	12 Wheel Tractor Hose	510612	2
9	90° Elbow, #4 MJ x #4 MB	700948	2
10	90° Long Elbow Fitting, #6 MJ x #6 MB	507284	1
11	1" Clevis Pin with Pin and Ring	507273	2

ID	Description	Part #	Qty
12	1" Heavy Duty Ext. Retaining Ring Zinc Plated	702883	2
13	1" X 1-1/2 Machinery Bushing 14GA	001008	2
14	Outer Cylinder Pin	510574	2
15	1/4-28 Spin-Drive Grease Zert	400117	2
16	3/8-16 X 1-1/4 Hex Head Bolt, Zinc Gr. 5	000275	4
17	3/8 Lock Washer, Zinc	000820	4
18	3/8 USS Flat Washer, Zinc	001035	4
19	5/16-18 X 1 Hex Head Bolt, Zinc Gr. 5	000221	4
20	5/16 Lock Washer, Zinc	000810	4
21	5/16 USS Flat Washer Zinc	001030	4

Hydraulic Wheel Beam Assembly

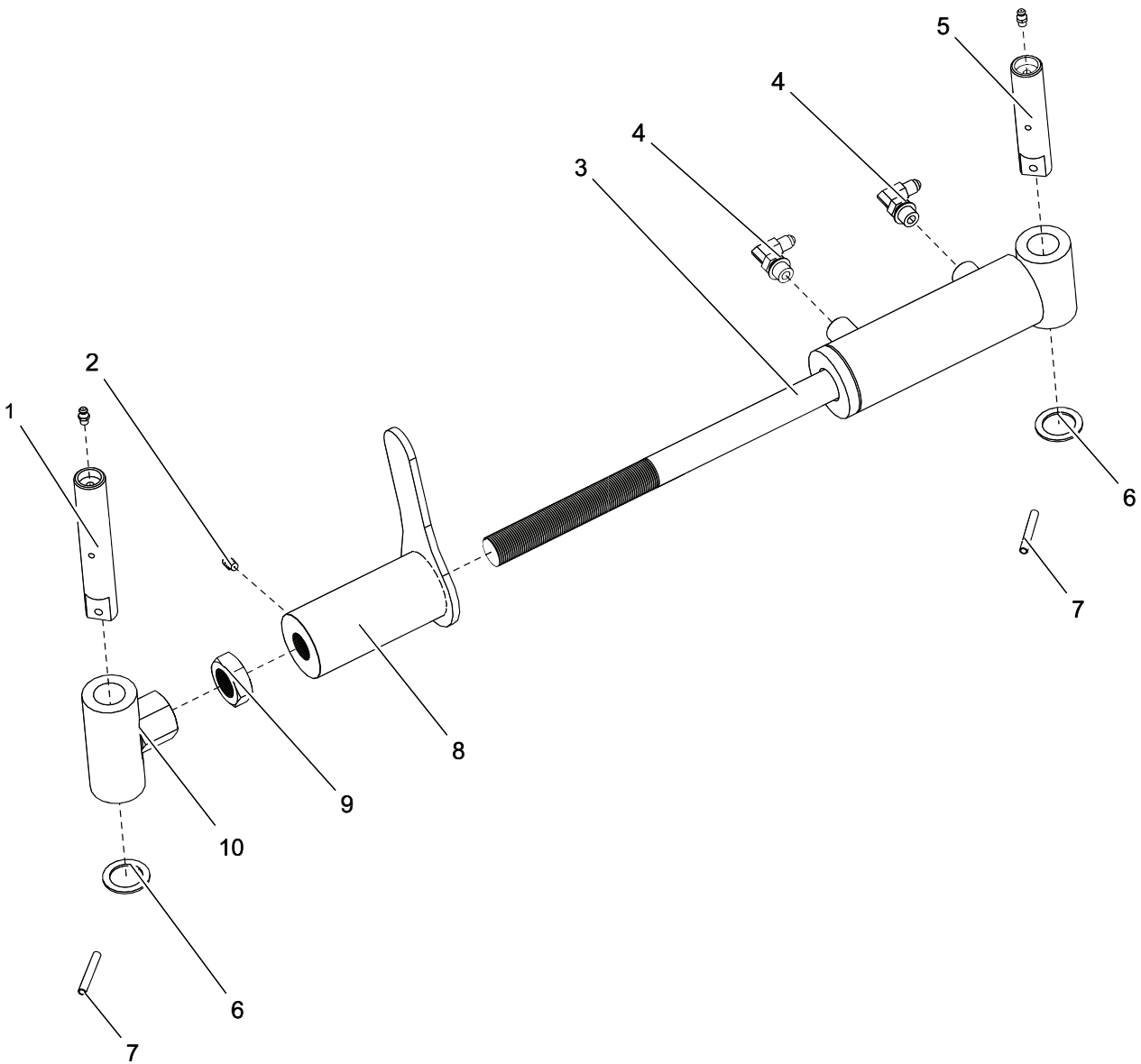
19



ID	Description	Part #	Qty
1a	Tractor Hoses for 8 Wheel Rake	510653	2
1b	Tractor Hoses for 10 Wheel Rake	510654	2
1c	Tractor Hoses for 12 Wheel Rake	510655	2
2	Fitting, 6 - 6L	510638	2
3	Wing Cylinder Manifold	510609	1
4	1/4" Lock Washer	000805	4
5	1/4" x 2-1/2" Hex Head Bolts	000195	4
6	90° Elbow Fitting, #4 MJ x #4 MB	700948	2
7	90° Long Elbow Fitting, #6 MJ x #6 MB	507284	2
8	90 Degree Elbow, #4 MJ x #6 MB	700907	4

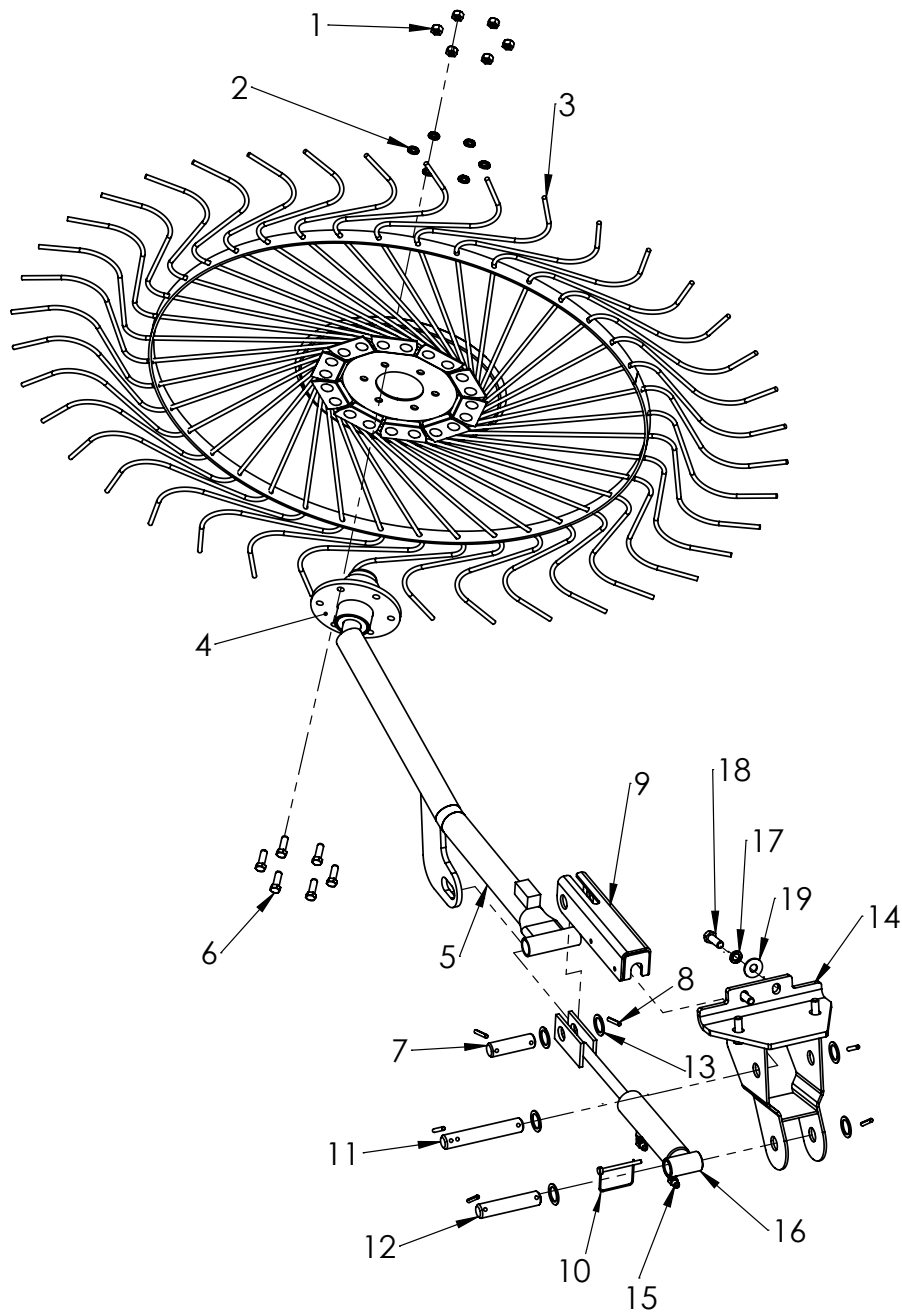
ID	Description	Part #	Qty
9	Hydraulic Beam Hose 53"	510616	4
10	Rear Wheel Beam Cylinder	510558	2
11	Cylinder Adjustment	510568	2
12	1" Jam Nut	510600	2
13	Beam Cylinder Rod End	510047	2
14	1/4" Spin Drive Fitting	400117	4
15	1" x 5- 7/8" Cylinder Pin	510571	2
16	1" x 4-1/2" Cylinder Pin	700907	4
17	1" X 1-1/2 Machinery Bushing 14GA	001008	4
18	1/4" x 1-3/4" Roll Pin	500187	4
19	Hydraulic Wheel Beam Option	510628	1

Hydraulic Wheel Beam Cylinder



ID	Description	Part #	Qty
1	Cylinder Pin	510653	1
2	1/4-28 Spin Drive Fitting	400117	3
3	Rear Wing Cylinder	510558	1
4	#4 JIC x #6 Male Boss Elbow Fitting	700907	2
5	Cylinder Pin	510570	1
6	1" X 1-1/2 Machinery Bushing 14GA	001008	2
7	1/4 x 1 3/4 Roll Pin	500187	2
8	Cylinder Adjustment	510568	1
9	1-14 Jam Nut	510600	1
10	Beam Cylinder Rod End	510047	1

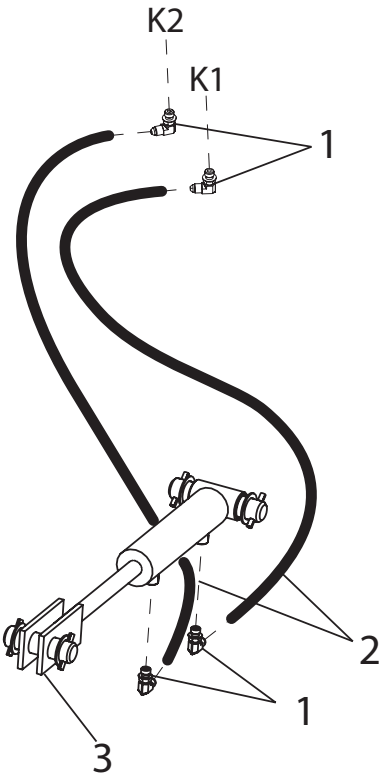
Kicker Wheel Kit



ID	Description	Part #	Qty
1	7/16-14 Hex Nut	000935	6
2	7/16 Split Lock Washer	000830	6
3	55" Finger Wheel Assembly, Left	508194	1
4	Rake Wheel Hub Assembly	508423	1
5	Kicker Arm Weldment	510591	1
6	7/16-14 x 1-1/4 Hex Head Bolt	000355	6
7	Working Stop Pin	508311	1
8	1/4 x 1 3/4 Roll Pin	508187	6
9	Kicker Cylinder Stop	510561	1
10	1/4 x 2-1/2 Snapper Pin	507186	1

ID	Description	Part #	Qty
11	Tongue Pin	507129	1
12	Center Hydraulic Pin	701021	1
13	1" X 1-1/2 Machinery Bushing 14GA	001008	6
14	Kicker Wheel Mounting Weldment	510597	1
15	90 Degree Hydraulic Connection	700948	2
16	Kicker Wheel Cylinder	508404	1
17	1/2 Split Lock Washer	000840	4
18	1/2-13 x 1" HH Bolt	000405	4
19	1/2 USS Flat Washer, Zinc	001055	2

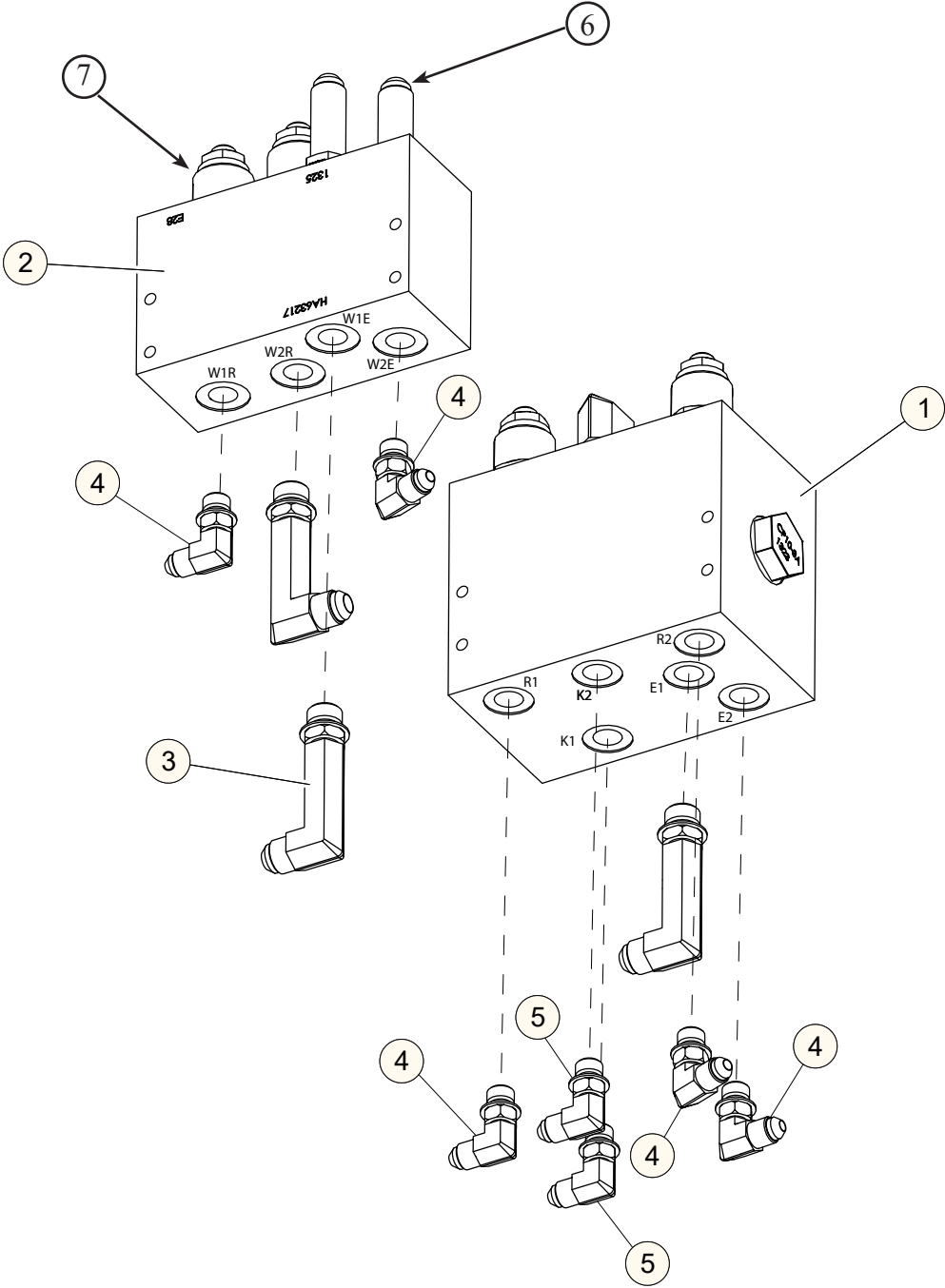
Kicker Wheel Hydraulics



Ref #	Description	Part #	Qty
1	90 Degree Elbow, #4 MJ x #4 MB	700948	4
2	Kicker Wheel Hose	510614	2
3	Kicker Wheel Cylinder	508404	1
4	Complete Seal Kit	510682	1

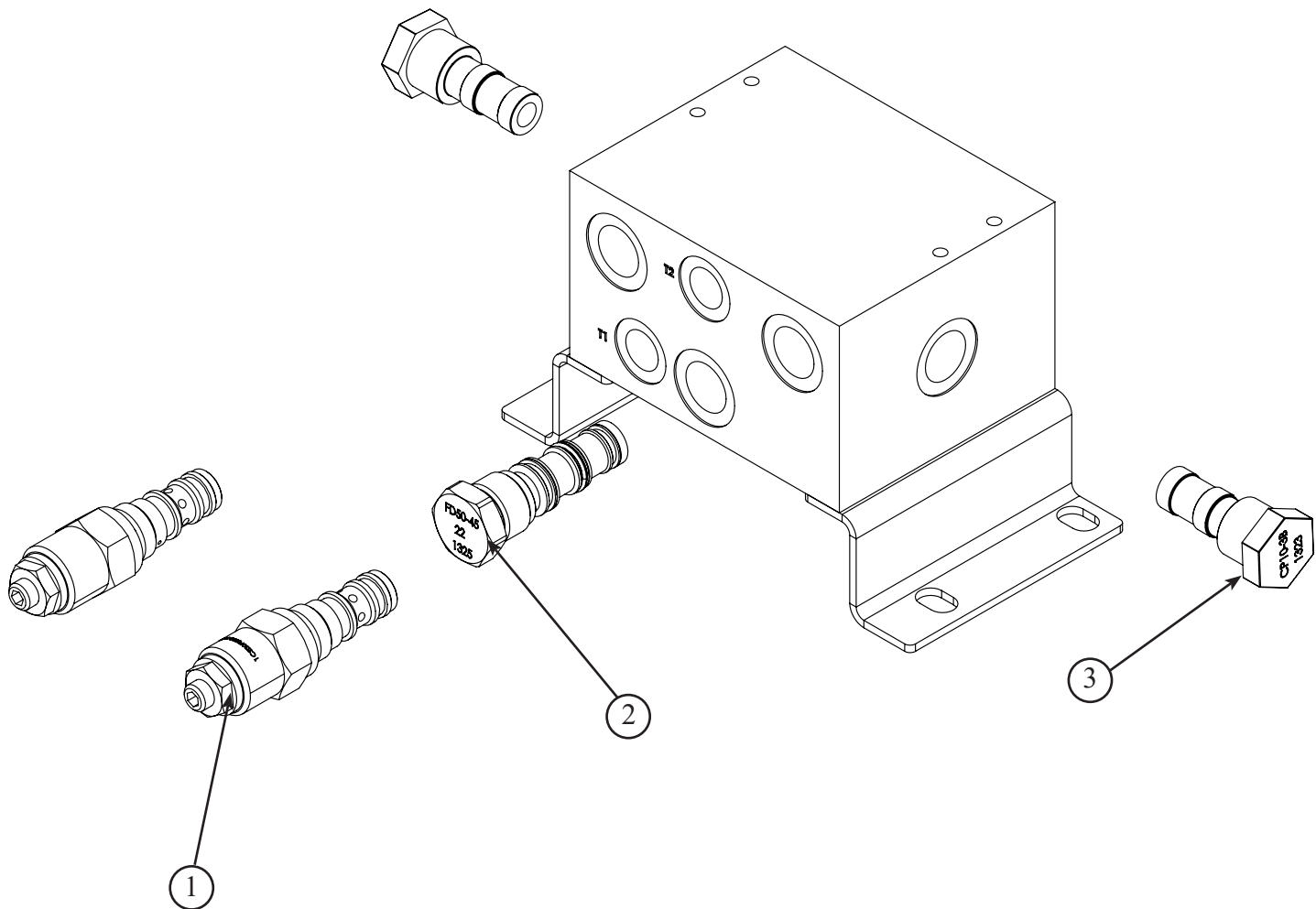
Note: See page 1 for additional kicker wheel parts.

Manifold Fittings



ID	Description	Part #
1	Mid Cap Rake Manifold	510589
2	Wing Cylinder Manifold	510609
3	Adapter - 4MB-4MJ90 Long	510619
4	90 Degree Elbow	700948
5a	90 Degree Elbow, for rakes S/N	700948
5b	90 Degree Elbow with orifice, for Rake S/N	403771
6	6400-6-6L	510638
7	Counter Balance Valve	510645

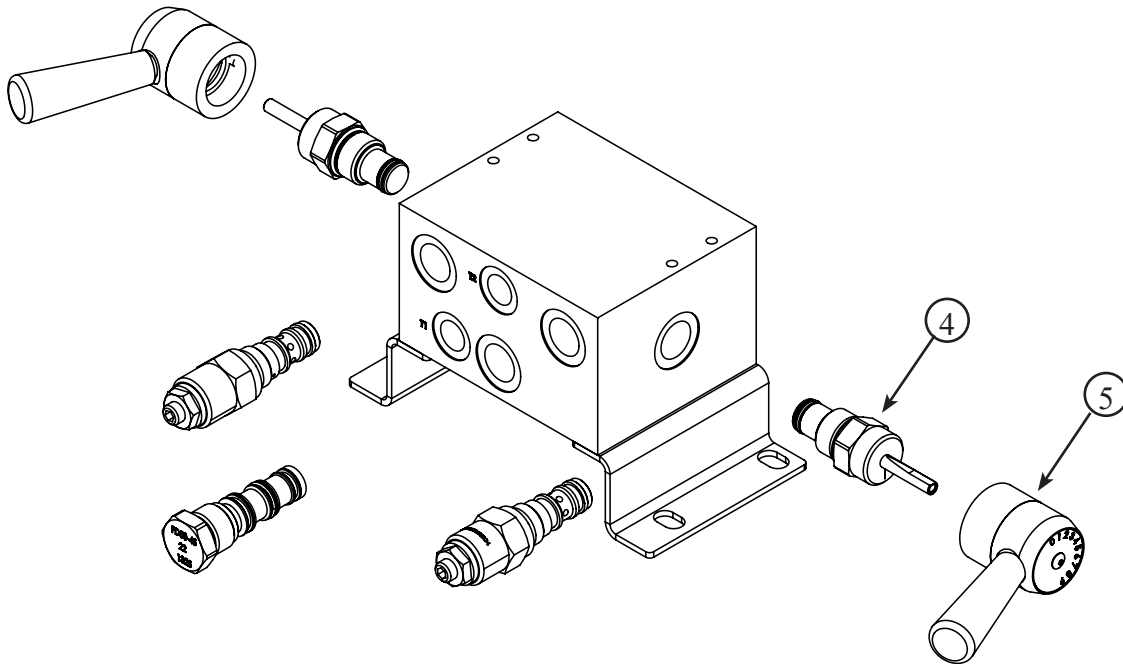
Default



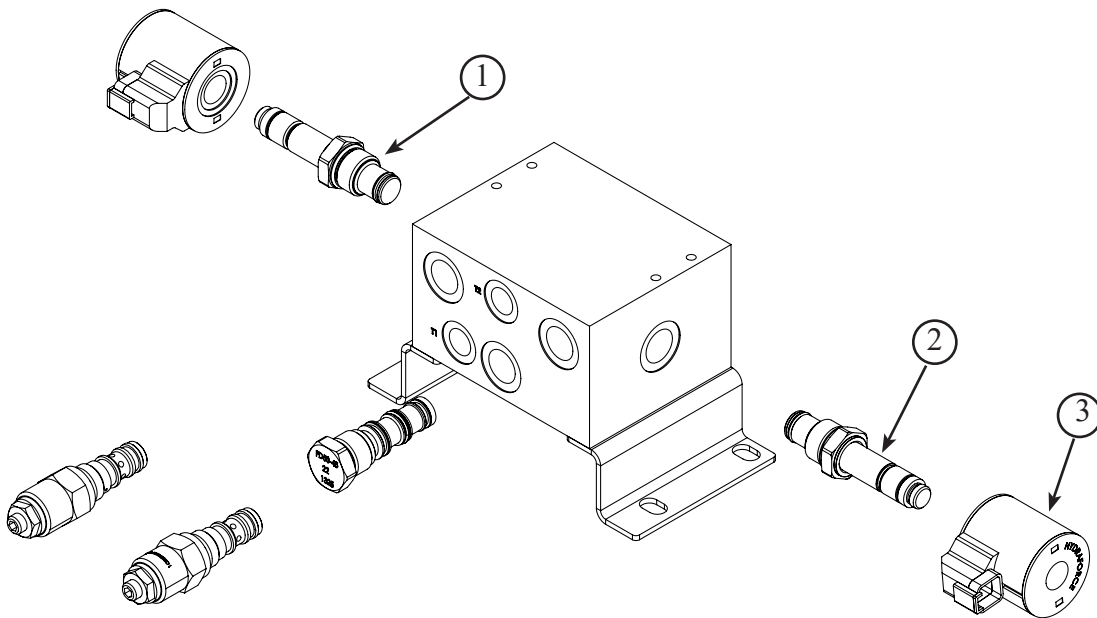
ID	Description	Part #
1	Counter Balance Valve	510645
2	Flow Divider Combiner	510646
3	PLUG	PLUG

Manual Control

MCR

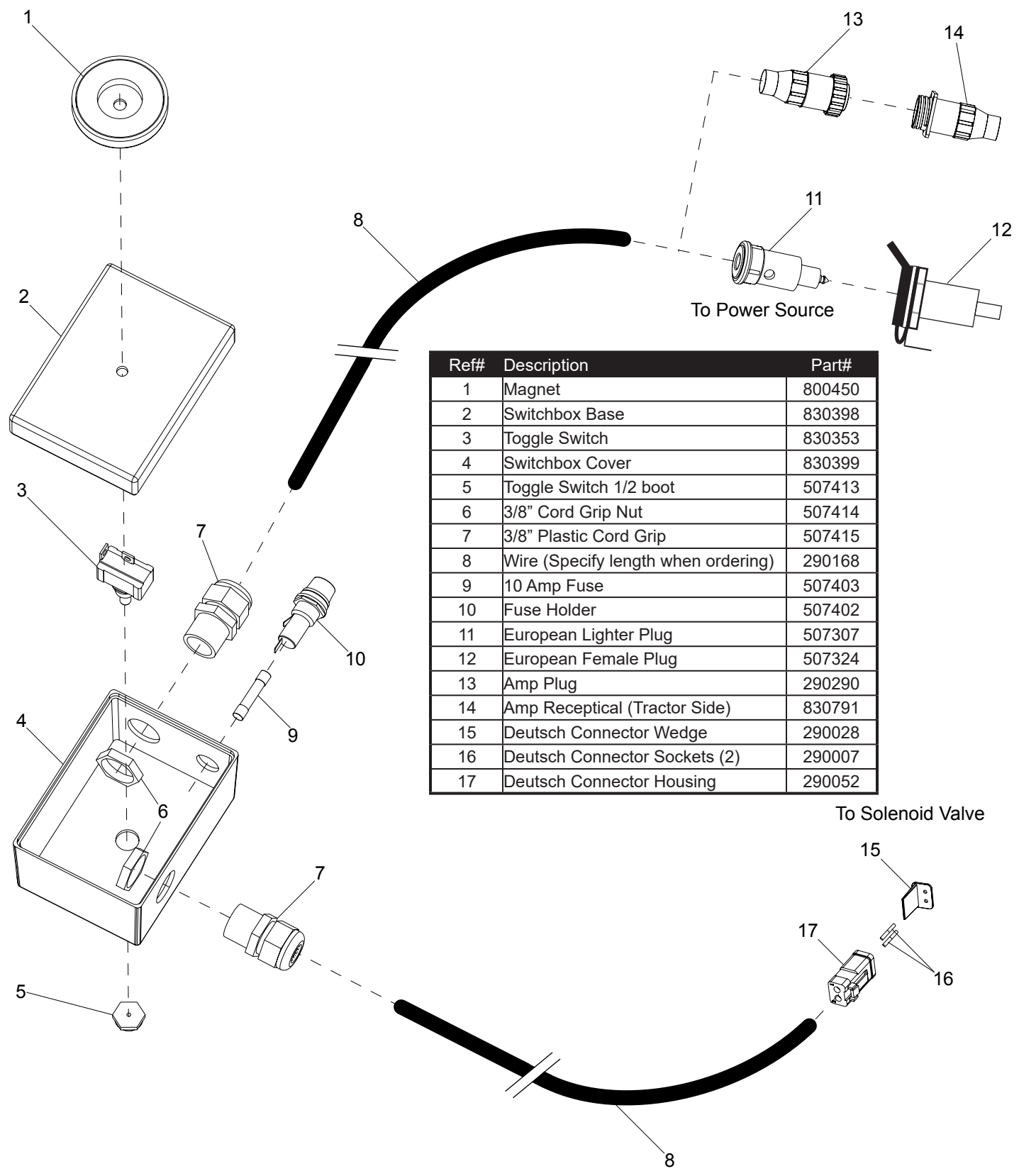


Electric Option



ID	Description	Part #
1	SV10-31-0-N-00 (Right Side)	510622
2	SV10-33-0-N-00 (Left Side)	510623
3	Solenoid Valve Coil	830325
4	Manual Shutoff Valve	290270
5	Handle Kit	290271

Switch Box



Ref#	Description	Part#
1	Magnet	800450
2	Switchbox Base	830398
3	Toggle Switch	830353
4	Switchbox Cover	830399
5	Toggle Switch 1/2 boot	507413
6	3/8" Cord Grip Nut	507414
7	3/8" Plastic Cord Grip	507415
8	Wire (Specify length when ordering)	290168
9	10 Amp Fuse	507403
10	Fuse Holder	507402
11	European Lighter Plug	507307
12	European Female Plug	507324
13	Amp Plug	290290
14	Amp Receptical (Tractor Side)	830791
15	Deutsch Connector Wedge	290028
16	Deutsch Connector Sockets (2)	290007
17	Deutsch Connector Housing	290052