



MANDAKO



3-PLEX (60') LAND ROLLER 30-50 SERIES (2013-2020)

PARTS MANUAL

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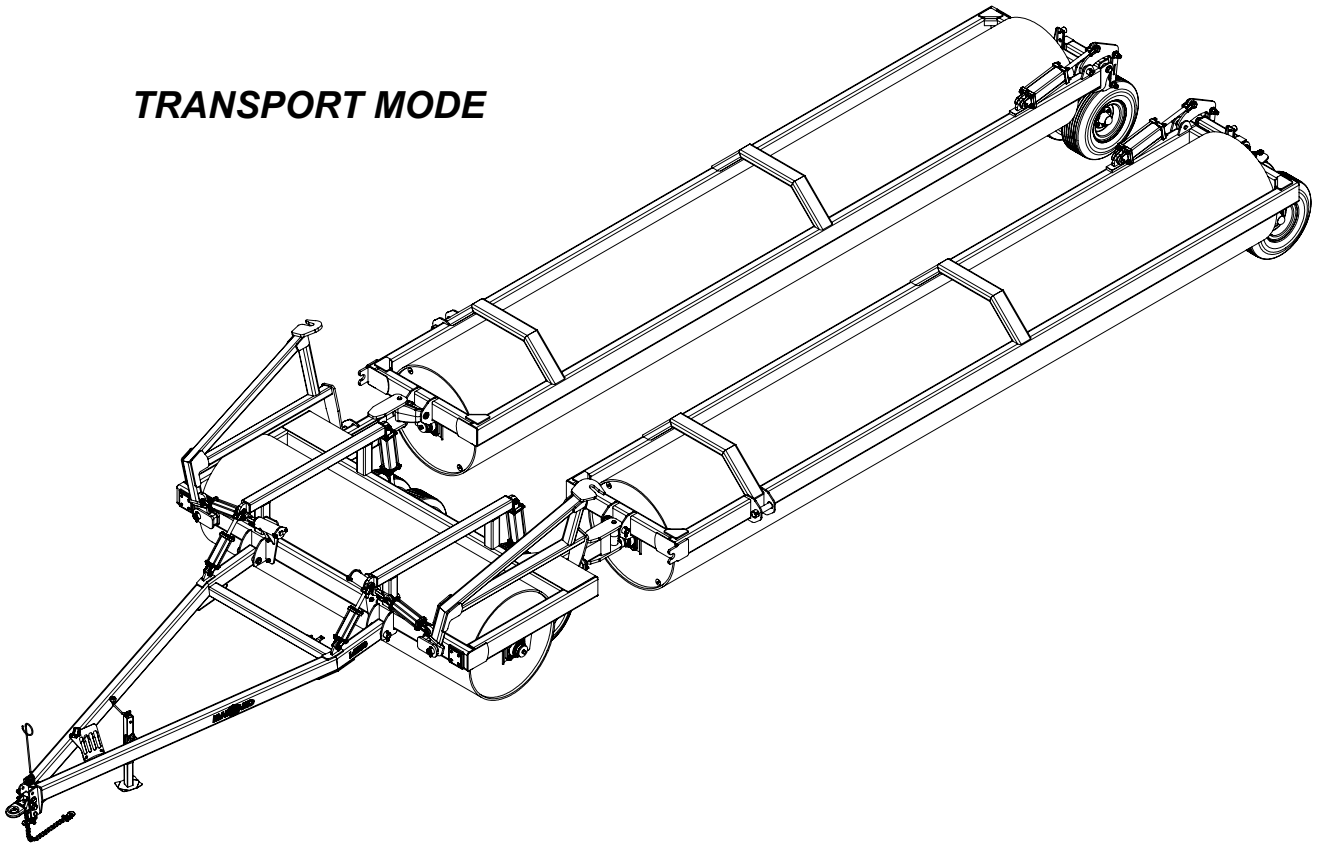
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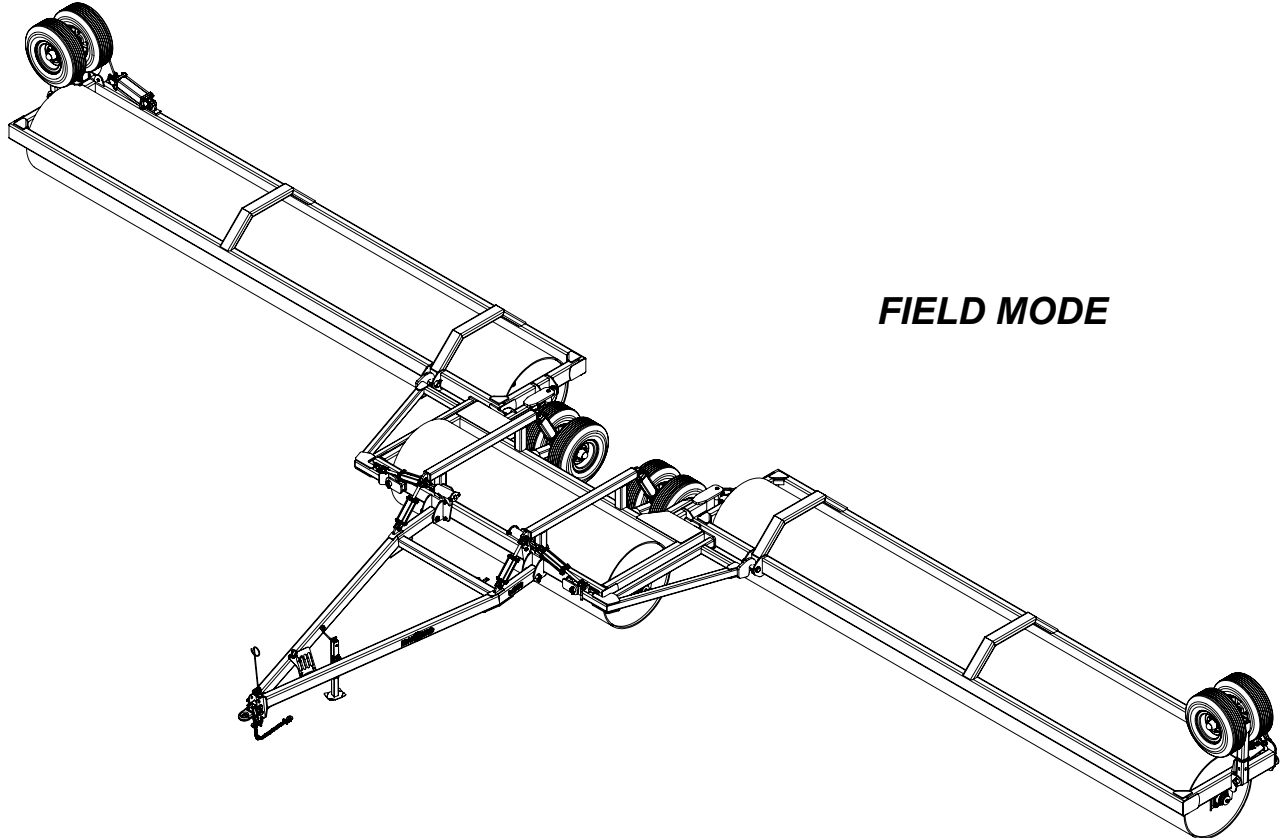
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TRANSPORT MODE



FIELD MODE



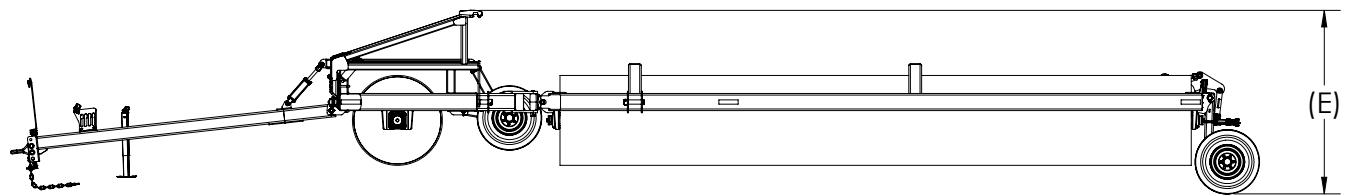
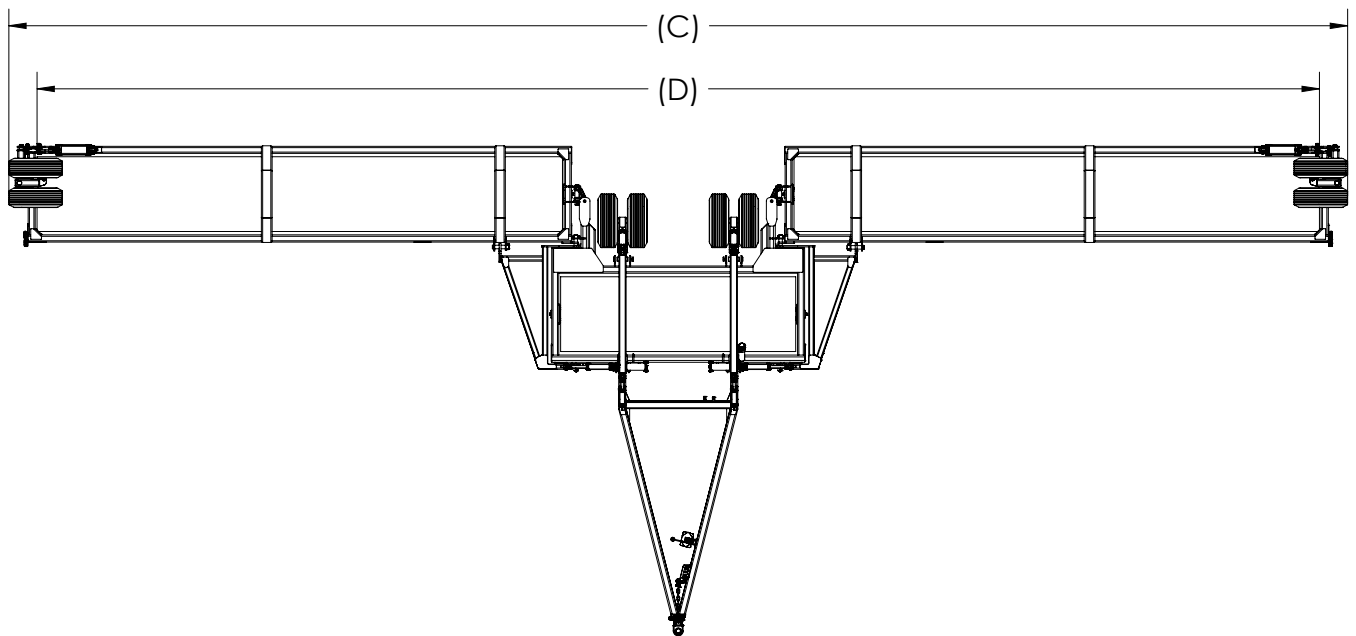
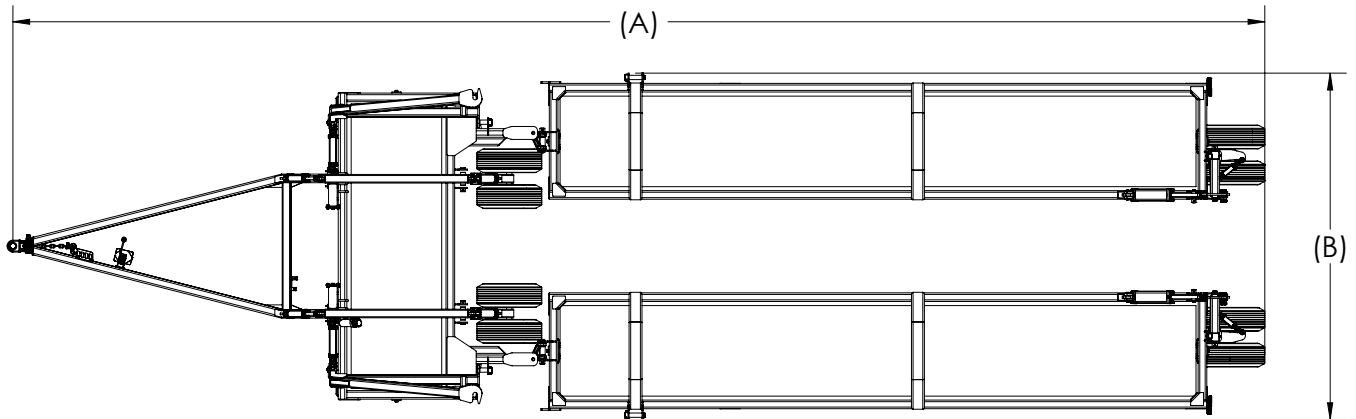


Table: A

Unit Size	Dimension				
	(A)	(B)	(C)	(D)	(E)
60'	48'-5"	13'-5"	62'-8"	60'	7'-2"

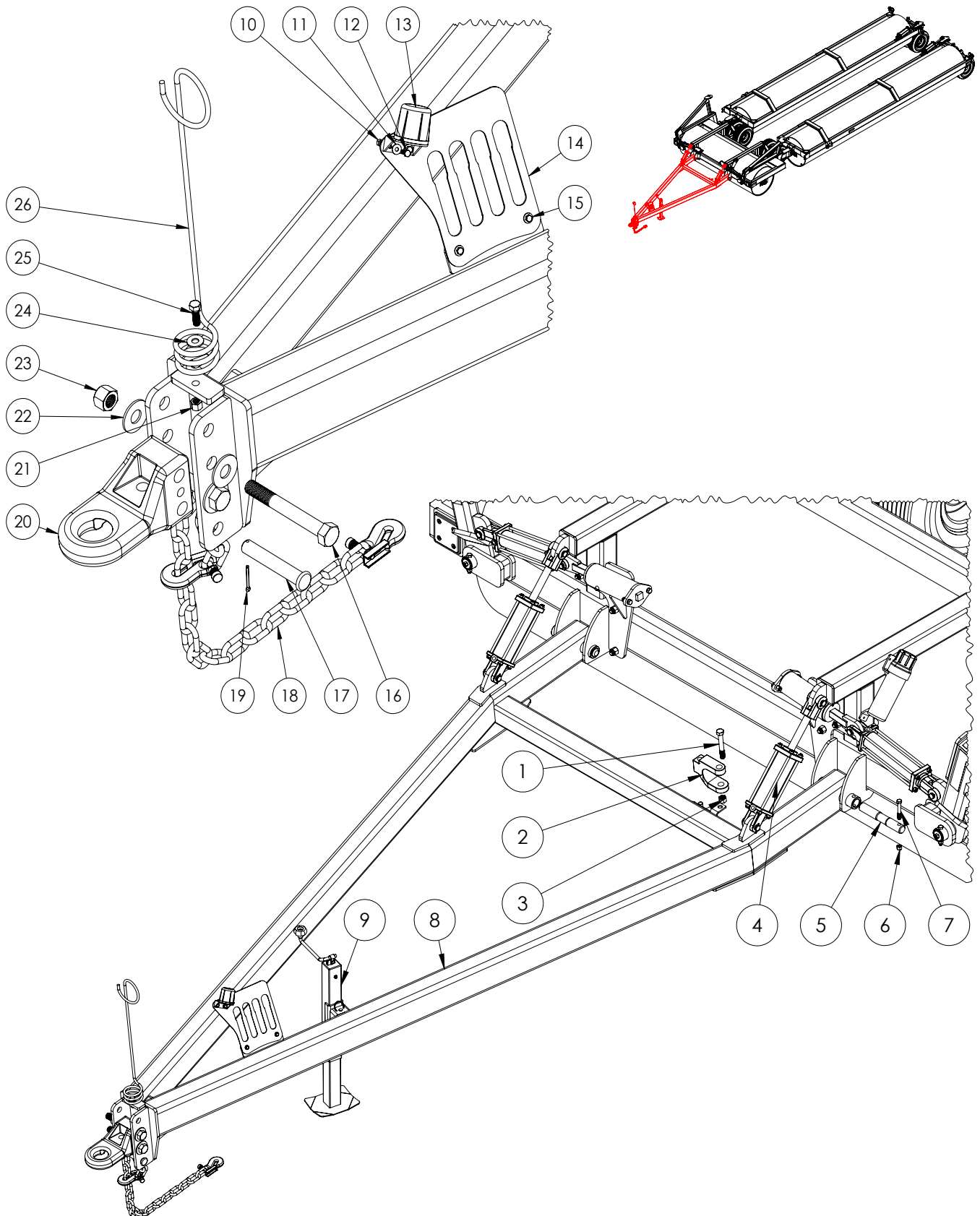


TABLE: B			
Item	Part #	Description	Qty
1	R0130955	Bolt: 3/4" x 5-1/2"	1
2	AA001090	Clevis Hitch Insert <i>(Includes Items 1,3)</i>	1
3	R0430109	Nut, Lock: 3/4"	1
4	n/a	Hitch Hydraulics <i>(See Page: 17)</i>	
5	PR151002	Pin, w/ Grease Groove: 1-1/2" x 10"	4
6	R0430106	Nut, Lock: 1/2"	
7	R0130635	Bolt: 1/2" x 3-1/2"	
8	WM005004	Hitch Frame <i>(Inquire)</i>	1
9	R9909004	Hitch Jack: Square Receiver	1
10	R0430102	Nut, Lock : 1/4"	4
11	R0510102	Washer, Flat: 1/4"	4
12	R0130208	Bolt: 1/4" x 3/4"	2
13	R1701018	Electrical Plug Protector: 7-Pin Round	1
14	PP010001	Storage Plate, Hydraulic Tips	1
15	R0130210	Bolt: 1/4" x 1"	2
16	R0131180	Bolt: 1" x 8"	2
17	R0810601	Clevis Pin: 1" x 6"	1
18	R9910001	Safety Chain: 3/8" x 60"	1
19	R1618900	Cotter Pin: 3/16" x 2"	1
20	R9901003	Pintle Hitch: Cat. 3, 3" Spacing	1
21	R0410106	Nut, Lock: 1/2"	1
22	R0530211	Washer, Flat: 1"	4
23	R0430111	Nut, Lock: 1"	2
24	R0510106	Washer, Flat: 1/2"	1
25	R0130620	Bolt: 1/2" x 2"	1
26	R1899001	Hose Retainer: 3/8" x 4" x 30"	1

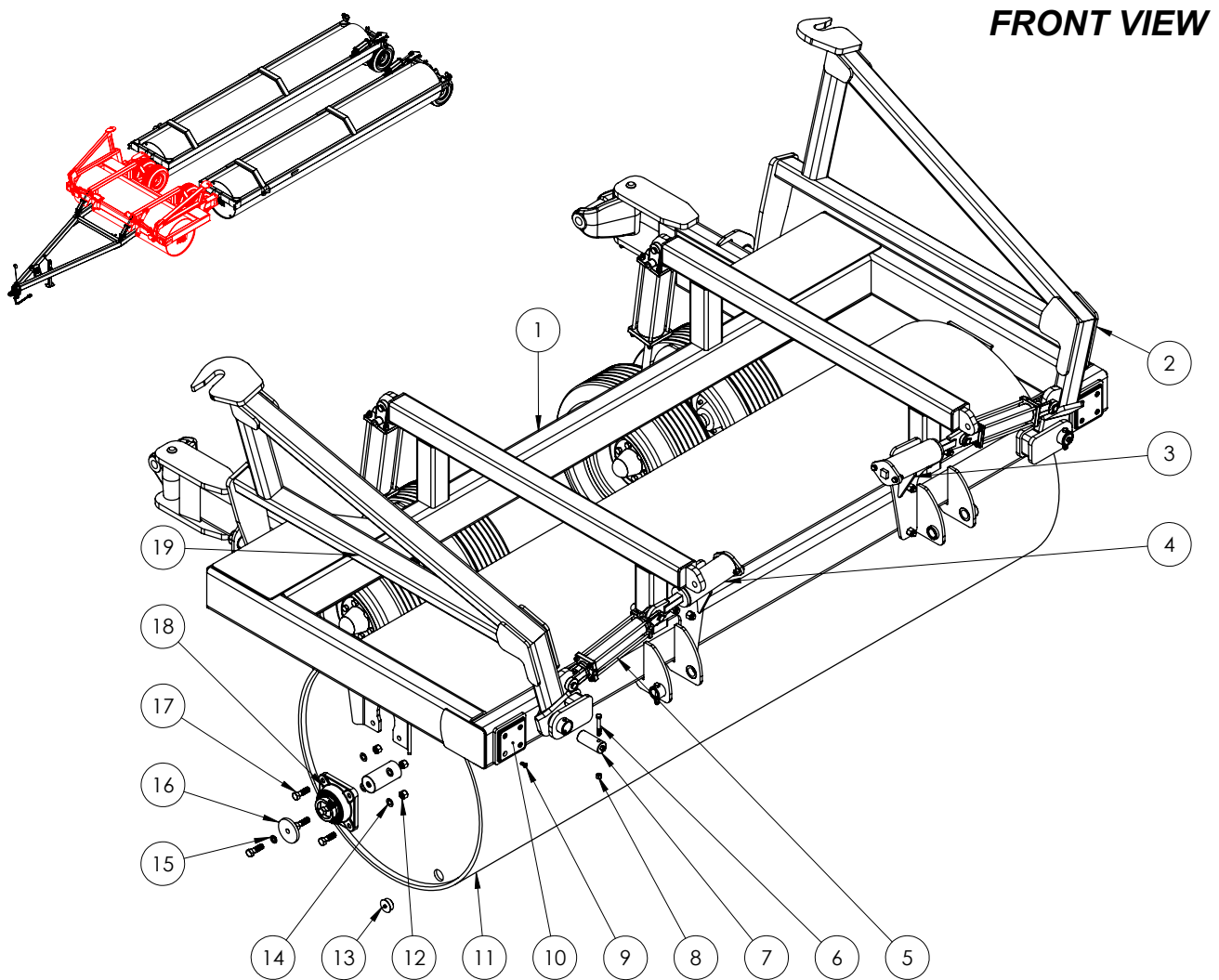


Table: C

Item	Part #	Description	Qty
1	WM005060	Main Frame	1
2	WC005149	Wing Lock Arm: Left	1
3	AC005069	Wing Lock Spring Bracket Assembly: Left	1
4	AC005070	Wing Lock Spring Bracket Assembly: Right	1
5	n/a	Wing Lock Hydraulics (See Page: 19)	
6	R0130635	Bolt: 1/2" x 3-1/2"	10
7	PR205005	Wing Lock Pin: Front	2
8	R0430106	Nut, Lock: 1/2"	10
9	R0160401	Countersunk Bolt: 3/8" x 1"	8
10	PM062002	Wing Lock Wear Pad	2
11 a)	WD052132	Drum: Main: 42" x 5/8"Wall	1
11 b)	WD053132	Drum: Main: 36" x 1/2"Wall)	
12	R0340109	Nut, Lock, Fine: 3/4"	8
13	R9930002	Plug, Roller Drum: 2"	2

REAR VIEW

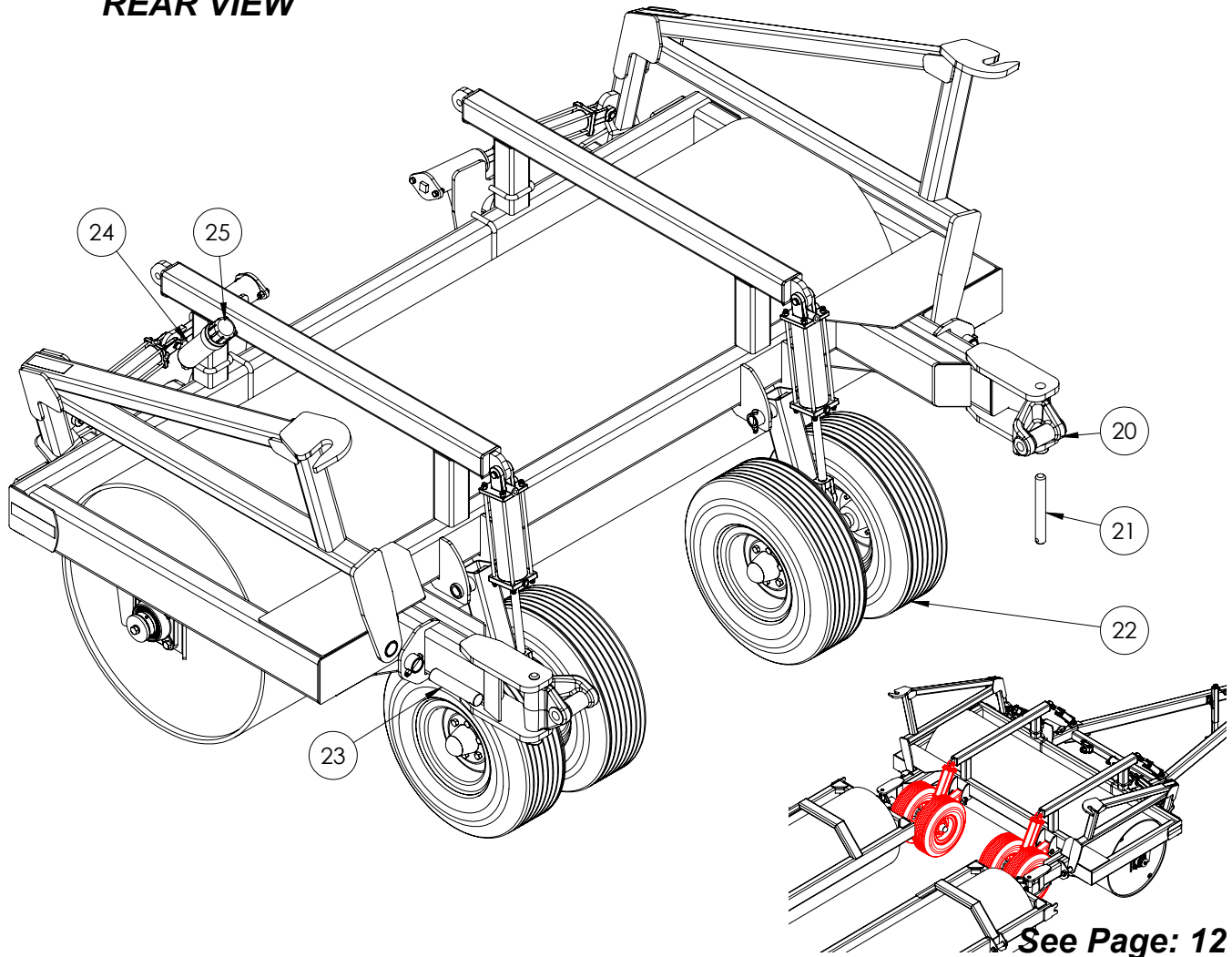
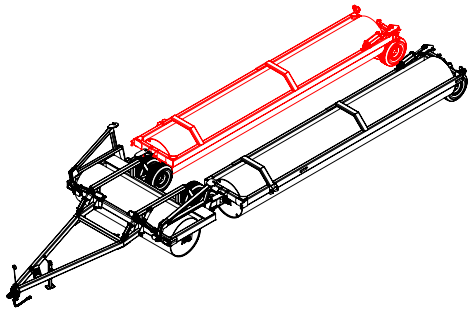
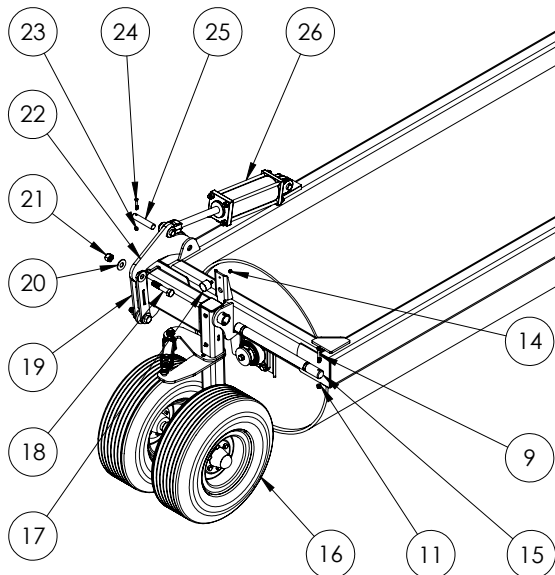
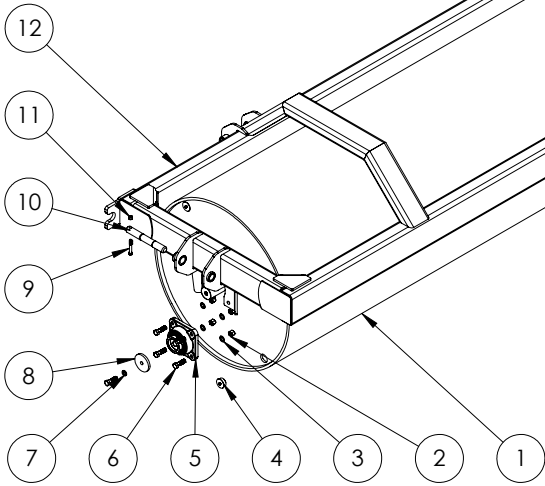


Table: D

Item	Part #	Description	Qty
14	R0591009	Washer, Flat, Belleville: 3/4"	8
15	R0610009	Washer, Lock: 3/4"	2
16	PP055038	Drum Washer: 1/2" x 4-1/4"	2
17	R0120925	Bolt, Fine: 3/4" x 2-1/2"	10
18 a)	R1100010	Bearing/Flange Assembly: 3" Bore, 4-Bolt x 6" Center - Center	2
18 b)	R1100016	Bearing only: 3" Bore	
19	WC005148	Wing Lock Arm: Right	1
20	R9901004	Knuckle, Cast: Land Roller Wing	2
21 a)	PR151001	Pin: 1-1/2" x 12"	2
21 b)	PR151001-01	Pin: 1-1/2" x 12-1/4"	
22	n/a	Main Frame Axle Assembly (See Page: 12)	2
23	PR205001	Pin, Wing Hook: 2" x 9-1/4"	2
24	R9912001	Canister, Manual: 3-1/4" x 12"	1
25	R2000000	Screw, Self-Tapping: #12 x 1-1/2"	2

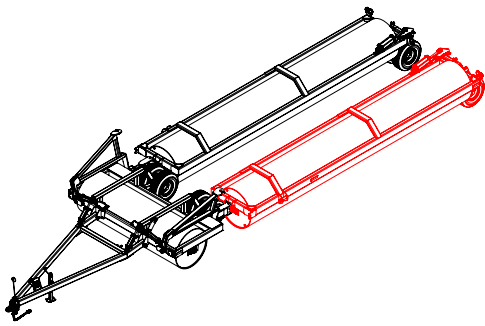


FRONT VIEW

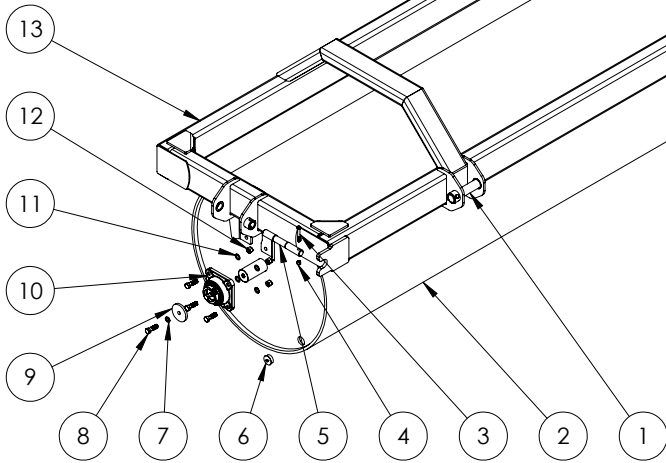


REAR VIEW

Table: E			
Item	Part #	Description	Qty
1 a)	WD052295	Drum, Wing: 42" x 5/8"Wall	1
1 b)	WD053295	Drum, Wing: 36" x 1/2"Wall	
2	R0340109	Nut, Fine, Lock: 3/4"	8
3	R0591009	Washer, Flat, Belleville: 3/4"	8
4	R9930002	Plug, Roller Drum: 2"	2
5 a)	R1100010	Bearing, Flange: 3" Bore, 4-Bolt x 6" Center - Center	2
5 b)	R1100016	Bearing only: 3" Bore	
6	R0120925	Bolt, Fine: 3/4" x 2-1/2"	10
7	R0610009	Washer, Lock: 3/4"	8
8	PP055038	Drum Washer: 1/2" x 4-1/4"	2
9	R0130635	Bolt: 1/2" x 3-1/2"	3
10	PR151005	Pin: 1-1/2" x 11-1/2"	1
11	R0430106	Nut, Lock: 1/2"	3
12	WM005062	Wing Frame: Right	1
13	PR205006	Wing Lock Pin: 2" x 9-1/2"	1
14	R0410104	Nut, Lock: 3/8"	1
15	PR205002	Rear Axle Hinge Pin: 2" x 26"	1
16	n/a	Rear Axle Assembly: Right (See Page: 13)	1
17	R9911002	Rubber Bumper: 2" x 1-5/8"	1
18	R0131150	Bolt: 1" x 5"	2
19	WC005055-01	Rear Axle Lift Link	1
20	R0510210	Washer, Flat: 1"	4
21	R0410110	Nut, Lock: 1"	2
22	WC005054	Swivel Axle Bracket	1
23	R0410104	Nut, Lock: 3/8"	1
24	R0110425	Bolt: 3/8" x 2-1/2"	1
25	PR132001	Pin: 1-1/4" x 6"	1
26	n/a	Wheel Lift Hydraulics (See Page: 20-21)	



FRONT VIEW



REAR VIEW

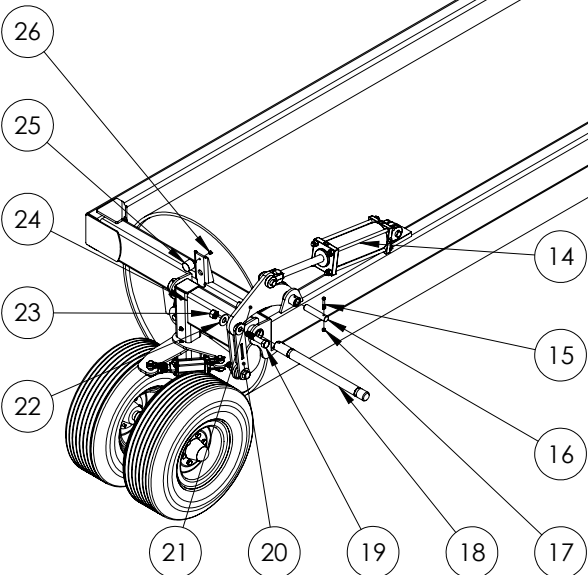


Table: F			
Item	Part #	Description	Qty
1	PR205006	Wing Lock Pin: 2" x 9-1/2"	1
2 a)	WD052295	Drum, Wing: 42" x 5/8"Wall	1
2 b)	WD053295	Drum, Wing: 36" x 1/2"Wall	
3	R0130635	Bolt: 1/2" x 3-1/2"	3
4	R0430106	Nut, Lock: 1/2"	3
5	PR151005	Pin: 1-1/2" x 11-1/2"	1
6	R9930002	Plug, Roller Drum: 2"	2
7	R0610009	Washer, Lock: 3/4"	2
8	R0120925	Bolt, Fine: 3/4" x 2-1/2"	10
9	PP055038	Drum Washer: 1/2" x 4-1/4"	2
10 a)	R1100010	Bearing, Flange: 3" Bore, 4-Bolt x 6" Center - Center	2
10 b)	R1100016	Bearing only: 3" Bore	
11	R0591009	Washer, Flat, Belleville: 3/4"	8
12	R0340109	Nut, Fine, Lock: 3/4"	8
13	WM005061	Wing Frame: Left	1
14	n/a	Wheel Lift Hydraulics (See Page: 20-21)	
15	R0110425	Bolt: 3/8" x 2-1/2"	1
16	PR132001	Pin: 1-1/4" x 6"	1
17	R0410104	Nut, Lock: 3/8"	1
18	PR205002	Rear Axle Hinge Pin: 2" x 26"	1
19	R0131150	Bolt: 1" x 5"	2
20	WC005055-01	Rear Axle Lift Link	1
21	WC005054	Swivel Axle Bracket	1
22	R0510210	Washer, Flat: 1"	4
23	R0410110	Nut, Lock: 1"	2
24	n/a	Rear Axle Assembly: Right (See Page: 13)	1
25	R9911002	Rubber Bumper: 2" x 1-5/8"	1
26	R0410104	Nut, Lock: 3/8"	1

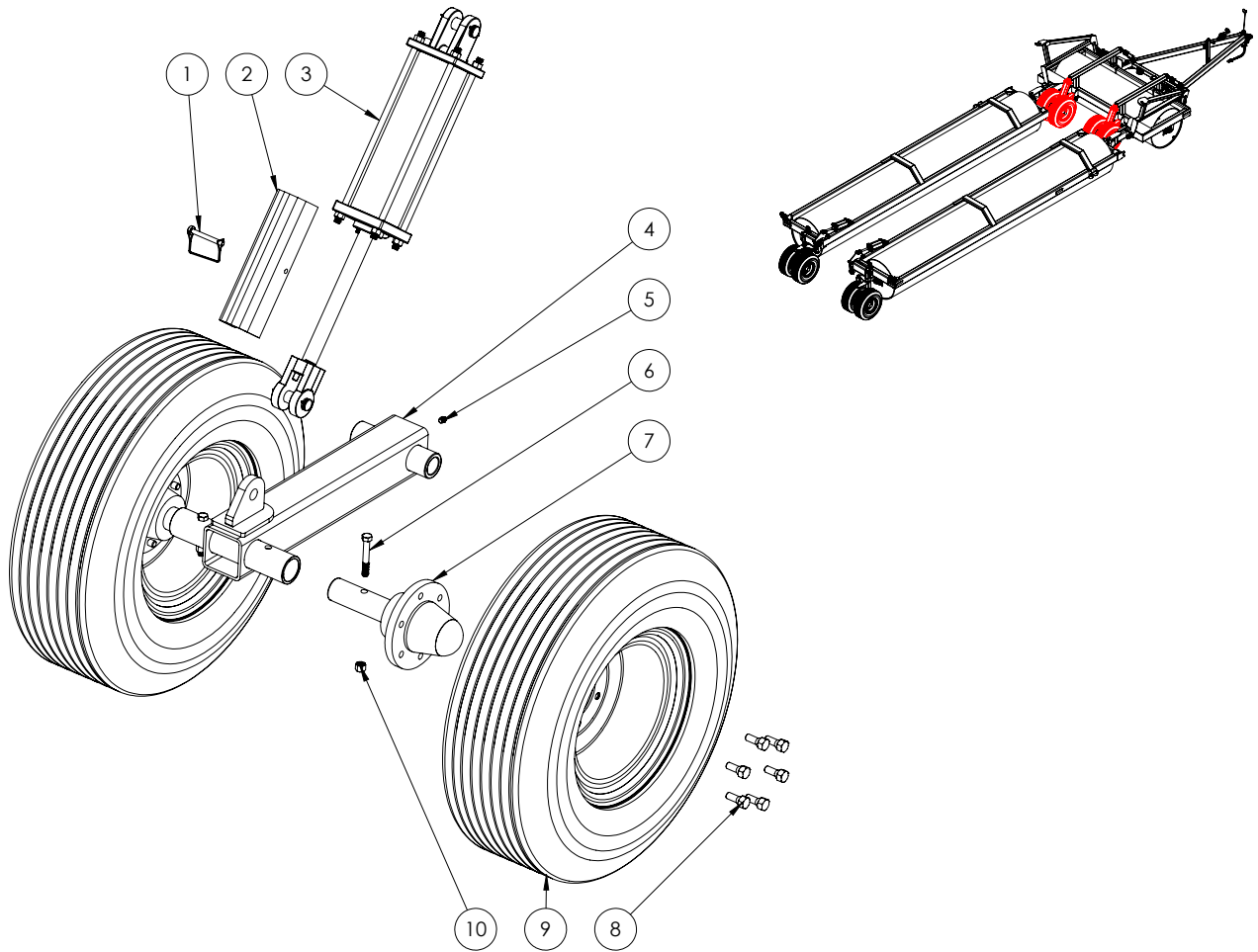


Table: G

Item	Part #	Description	Qty
1	R0804281	Pin, Wire Latch: 3/8" x 2-1/2"	1
2	PP032021	Cylinder Stop: 1-1/2" x 12" <i>(Includes Item 1)</i>	1
3	n/a	Wheel Lift Hydraulics <i>(See Page: 20-21)</i>	
4	WC002003	Front Axle Arm	1
5	R1502501	Zerk, Grease: 1/8"-27 NPT	1
6	R0130635	Bolt: 1/2" x 3-1/2"	2
7	n/a	Hub/Spindle Assembly: 6-Bolt <i>(See Page: 14)</i>	2
8	R0150713	Bolt, Lug, 90°: 9/16" x 1-1/4"	12
9	n/a	Wheel & Tire Assembly <i>(See Page: 15)</i>	2
10	R0430106	Nut, Lock: 1/2"	2

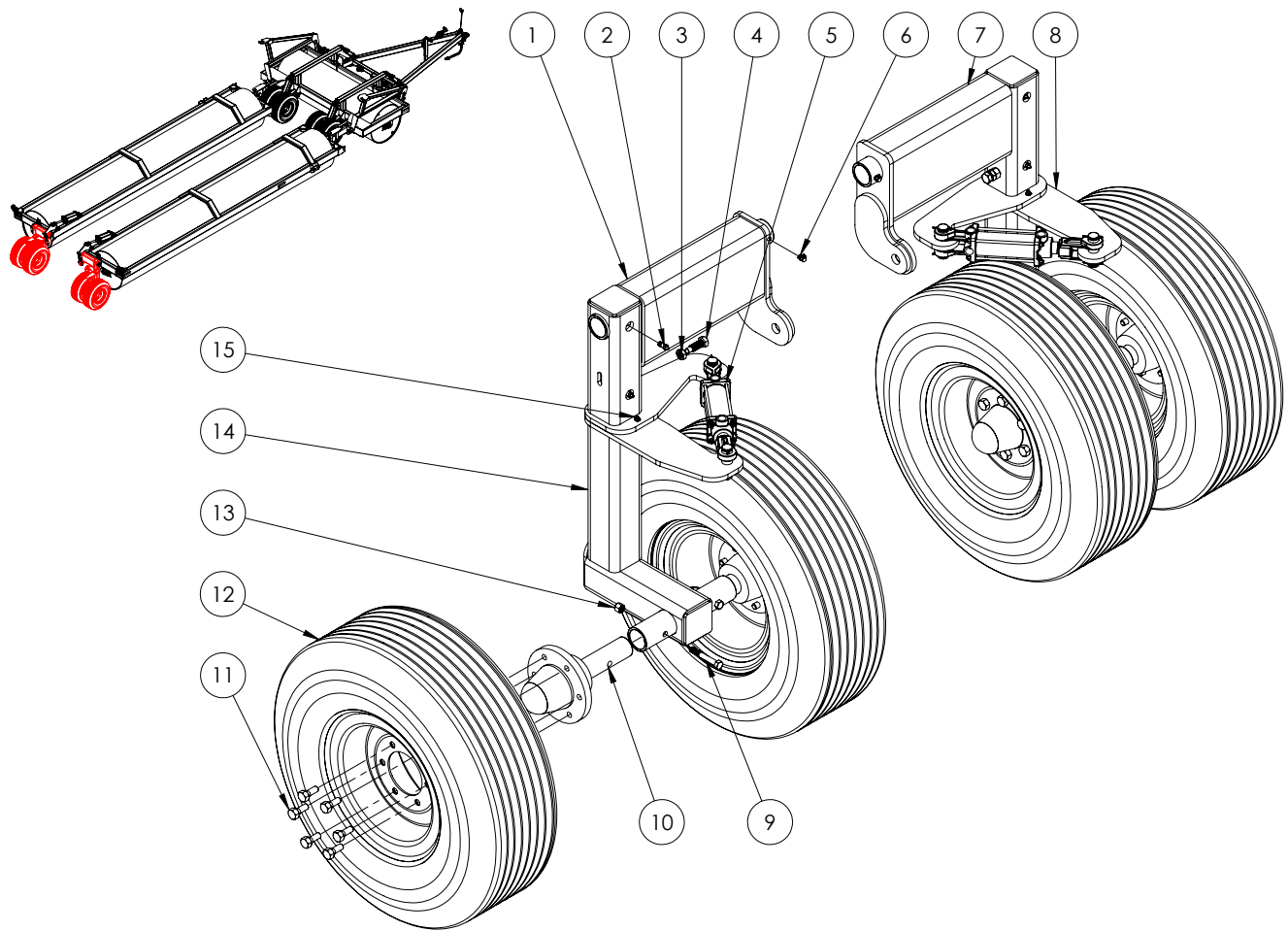


Table: H

Item	Part #	Description	Qty
1	WC005141	Rear Axle Frame: Short, Dual, Upper, Left	1
2	R1502509	Grease Zerk, Long: 1/8" NPT	4
3	R0310308	Nut, Jam: 5/8"	2
4	PM062001	Steering Pin Security Bolt: 5/8" x 2"	2
5	n/a	Rear Steering Hydraulics (See Page: 18)	
6	R1502503	Grease Zerk, 90°: 1/8" NPT	2
7	WC005142	Rear Axle Frame: Short, Dual, Upper, Right	1
8	WC005048	Rear Axle Frame: Dual, Lower, Right	1
9	R0130635	Bolt: 1/2" x 3-1/2"	4
10	n/a	Hub/Spindle Assembly: 6-Bolt (See Page: 14)	4
11	R0150713	Bolt, Lug, 90°: 9/16" x 1-1/4"	24
12	n/a	Wheel/Tire Assembly (See Page: 15)	4
13	R0430106	Nut, Lock: 1/2"	4
14	WC005049	Rear Axle Frame: Dual, Lower, Left	1
15	R1502504	Grease Zerk: 1/8" NPT	2

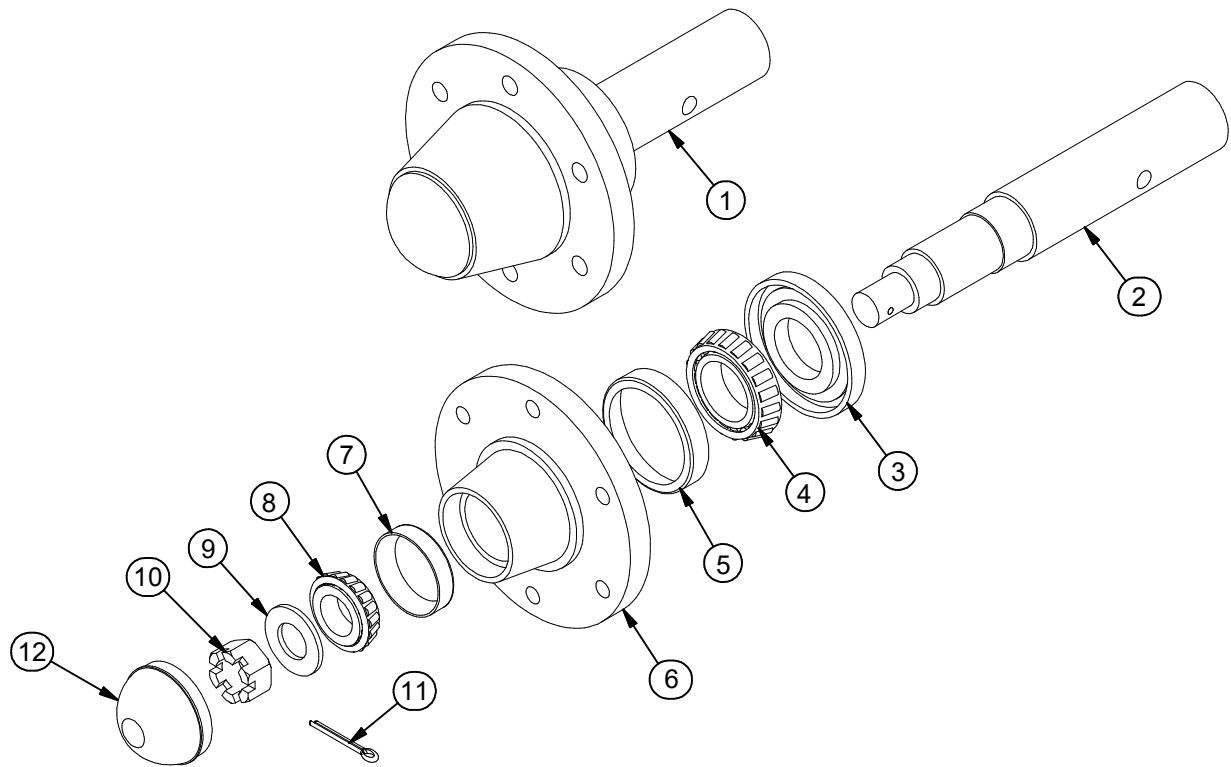


Table: I

Item #	Part #	Description	Reference #
1	R9903001-04	Complete Hub/Spindle Assembly: 6-Bolt: 3-1/4" Seal-Hole	
2	R9904001	Spindle, 6-Bolt: 3-1/4" Seal-Hole	
3 a)	R1320001	Seal, Grease, 6-Bolt: Single Lip (Canada Only)	SE30
3 b)	R1320001-02	Seal, Grease, 6-Bolt: Labyrinth	SE88
4 a)	R1100013	Bearing, Tapered: 6-Bolt: Inner (Canada Only)	25580
4 b)	R1100013-01	Bearing, Tapered: 6-Bolt: Inner (Premium)	25580
5 a)	R1200003	Race, 6-Bolt: Inner (Canada Only)	25520
5 b)	R1200003	Race, 6-Bolt: Inner (Premium)	25520
6	R9905001-01	Hub, Cast, 6-Bolt (Includes items 4b & 5b)	HA618
7 a)	R1200004	Race, 6-Bolt: Outer (Canada Only)	LM48510
7 b)	R1200004-01	Race, 6-Bolt: Outer (Premium)	LM48510
8 a)	R1100012	Bearing, Tapered: 6-Bolt Outer (Canada Only)	LM48548
8 b)	R1100012-01	Bearing, Tapered: 6-Bolt Outer (Premium)	LM48548
9	R0590100	Washer, Flat, Hardened: 1"	
10	R1410001	Nut, Castle, Fine: 1"	
11	R1618900	Pin, Cotter: 3/16" x 2"	
12	R9906001	Dust Cap: 6-Bolt	DC-15
*	KB100001	Rebuild Kit, 6-Bolt (Canada Only) (Includes all "a" item's from 2-6)	
*	KB100001-11	Premium Rebuild Kit, 6-Bolt (Includes all "b" item's from 2-6)	
*	KB100001-12	Premium Rebuild Kit, 6-Bolt (Includes all "b" item's from 2-6 & 1,7,8,11)	
*	R1502505	Grease Zerk: 6mm Straight	



STYLE A



STYLE B

Table: J			
Item	Part #	Description	Style
1	R9908002	Wheel Only, Implement, Yellow: 16" x 6", 6"-6-Bolt, +1-1/8"Offset	A
2	R9908002-01	Wheel Only, Implement, Black: 16" x 6", 6"-6-Bolt, +1-1/8"Offset	A
3	R9908002-02	Wheel Only, Implement, Yellow: 16" x 6", 6"-6-Bolt, +1-1/8"Offset	B
4	R9908002-03	Wheel Only, Implement, Black: 16" x 6", 6"-6-Bolt, +1-1/8"Offset	B
5	KW100001	Wheel & Tire Assembly, Yellow: 6"-6-Bolt, +1-1/8"Offset, ST235/80R16E, 10 Ply	A
6	KW100001-01	Wheel & Tire Assembly, Black: 6"-6-Bolt, +1-1/8"Offset, ST235/80R16E, 10 Ply	A
7	KW100001-02	Wheel & Tire Assembly, Yellow: 6"-6-Bolt, +1-1/8"Offset, ST235/80R16E, 10 Ply	B
8	KW100001-03	Wheel & Tire Assembly, Black: 6"-6-Bolt, +1-1/8"Offset, ST235/80R16E, 10 Ply	B
9	R9907002	Tire Only, Implement: ST235/80R16E, 10 Ply	

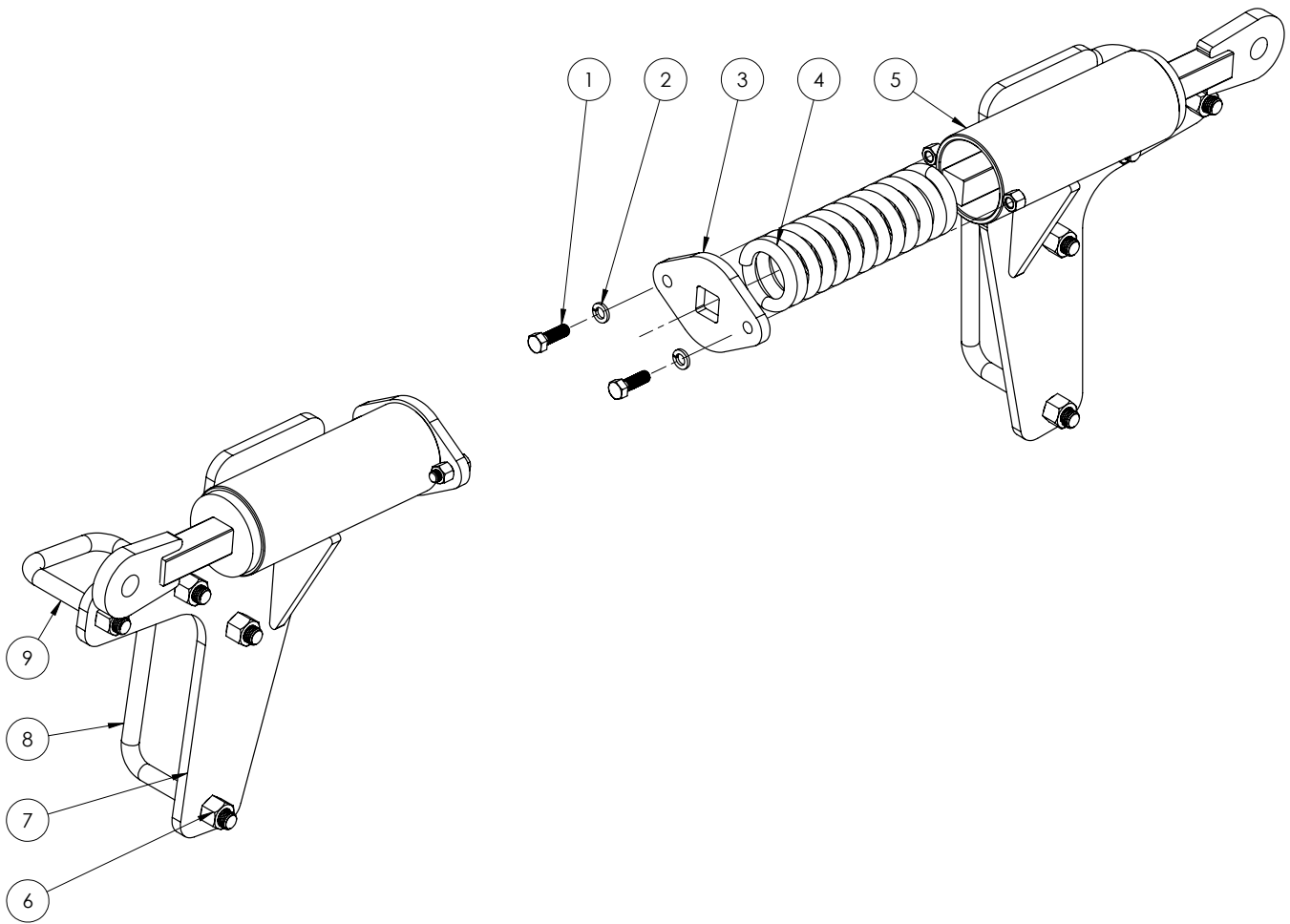


Table: K

Item	Part #	Description	Qty
1	R0110615	Bolt: 1/2" x 1-1/2"	4
2	R0610006	Washer, Lock: 1/2"	4
3	PP055124	Spring Bracket End Cap	2
4	R0932000	Wing Lock Spring: 3.2" x 10"	2
5	WC005144	Welded Wing Lock Spring Bracket: Left	1
6	R0430109	Nut, Lock: 3/4"	8
7	WC005143	Welded Wing Lock Spring Bracket: Right	1
8	R0239855	U-Bolt: (3/4") 5-1/2" x 8" x 5-1/2"	2
9	R0239455	U-Bolt: (3/4") 5-1/2" x 4" x 5-1/2"	2

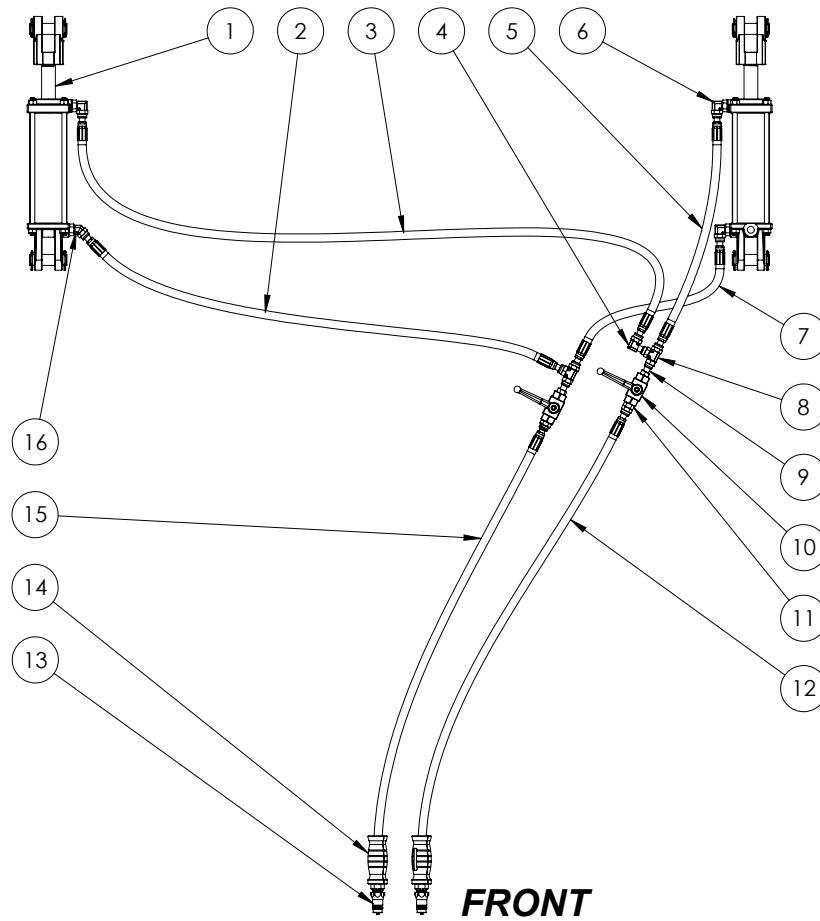


Table: L

Item #	Part #	Description	Seal Kit #
1 a)	R1930801	Cylinder, Tie-Rod, Black: 3" x 8"	KR100020
1 b)	R1930800	Cylinder, Tie-Rod, Yellow: 3" x 8"	KR100020
2	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 68"	
3	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 56"	
4	R1802030	Elbow, 90°: #6 FORFSX - #6 MORFS	
5	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 20"	
6	R1802007	Elbow, 90°: #6 MORFS - #8 MORB	
7	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 22"	
8	R1802031	Tee: #6 MORFS - #6 MORFS - #6 MORFS	
9	R1802033	Straight: #6 MORB - #6 FORFSX	
10 a)	R1803006	Ball Valve: #6 FORB - #6 FORB	
10 b)	R1803006	Handle Ony: Ball Valve	
11	R1802042	Straight: #6 MORB - #6 MORFS	
12	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 180"	
13	R1805001	Male Quick Connect: #8 FPT	
14	R1899010	Handle Grip, Blue: #8 MPT - #8 FPT	
15	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 180"	
16	R1802006	Elbow, 45°: #6 MORFS - #8 MORB	

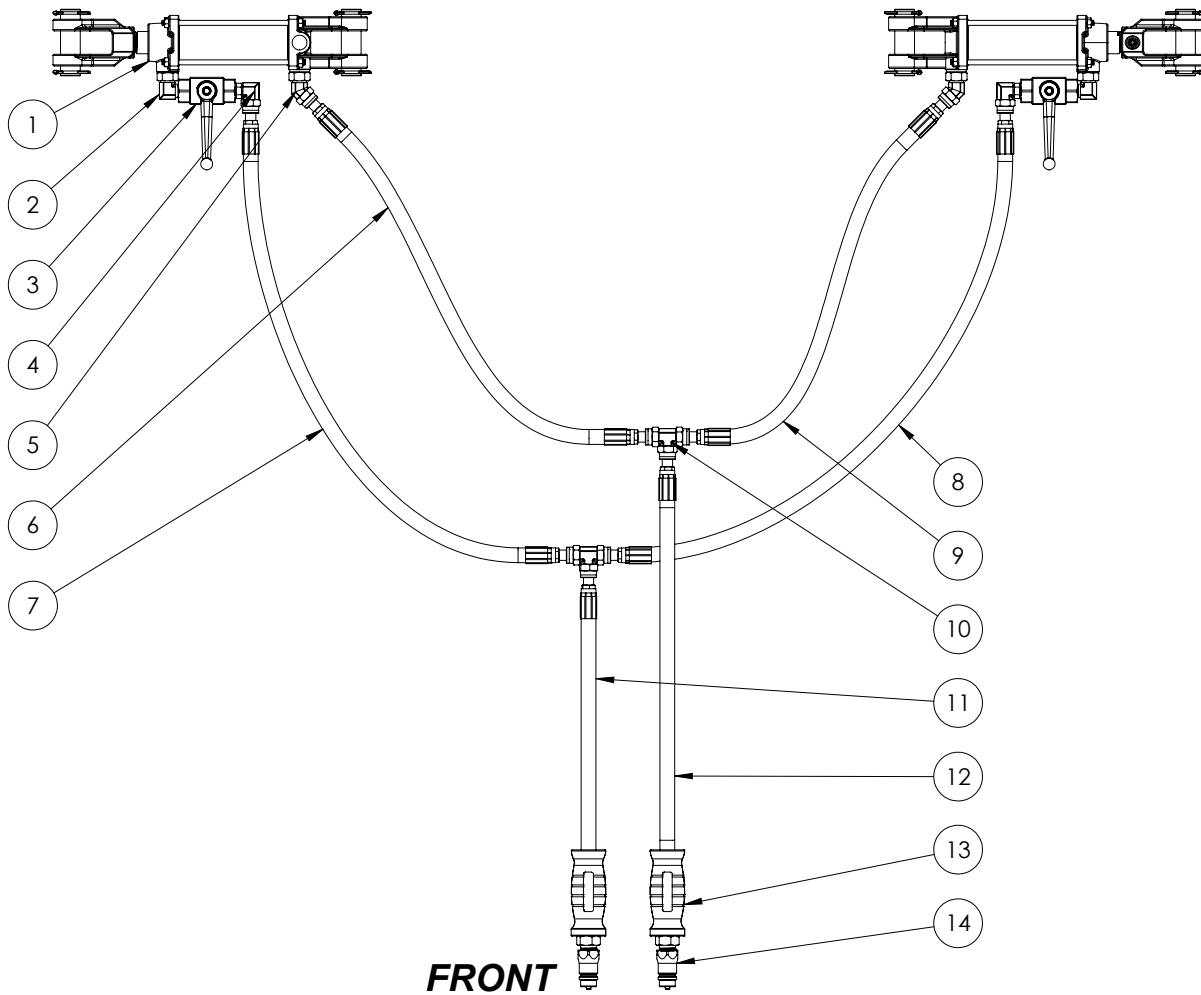


Table: M

Item #	Part #	Description	Seal Kit #
1 a)	R1920401-01	Cylinder, Tie-Rod, Black: 2" x 4"	KR100018
1 b)	R1920401	Cylinder, Tie-Rod, Yellow: 2" x 4"	
2	R1802007	Elbow, 90°: #6 MORFS - #8 MORB	
3 a)	R1803006	Ball Valve: #6 FORB - #6 FORB	
3 b)	R1803005	Handle Only: Ball Valve	
4	R1802028	Elbow, 90°: #6 MORFS - #6 MORB	
5	R1802006	Elbow, 45°: #6 MORFS - #6 MORB	
6	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 432"	
7	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 435"	
8	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 487"	
9	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 483"	
10	R1802031	Tee: #6 MORFS - #6 MORFS - #6 MORFS	
11	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 276"	
12	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 276"	
13	R1899012	Handle Grip, Red: #8 MPT - #8 FPT	
14	R1805001	Male Quick Connect: #8 FPT	

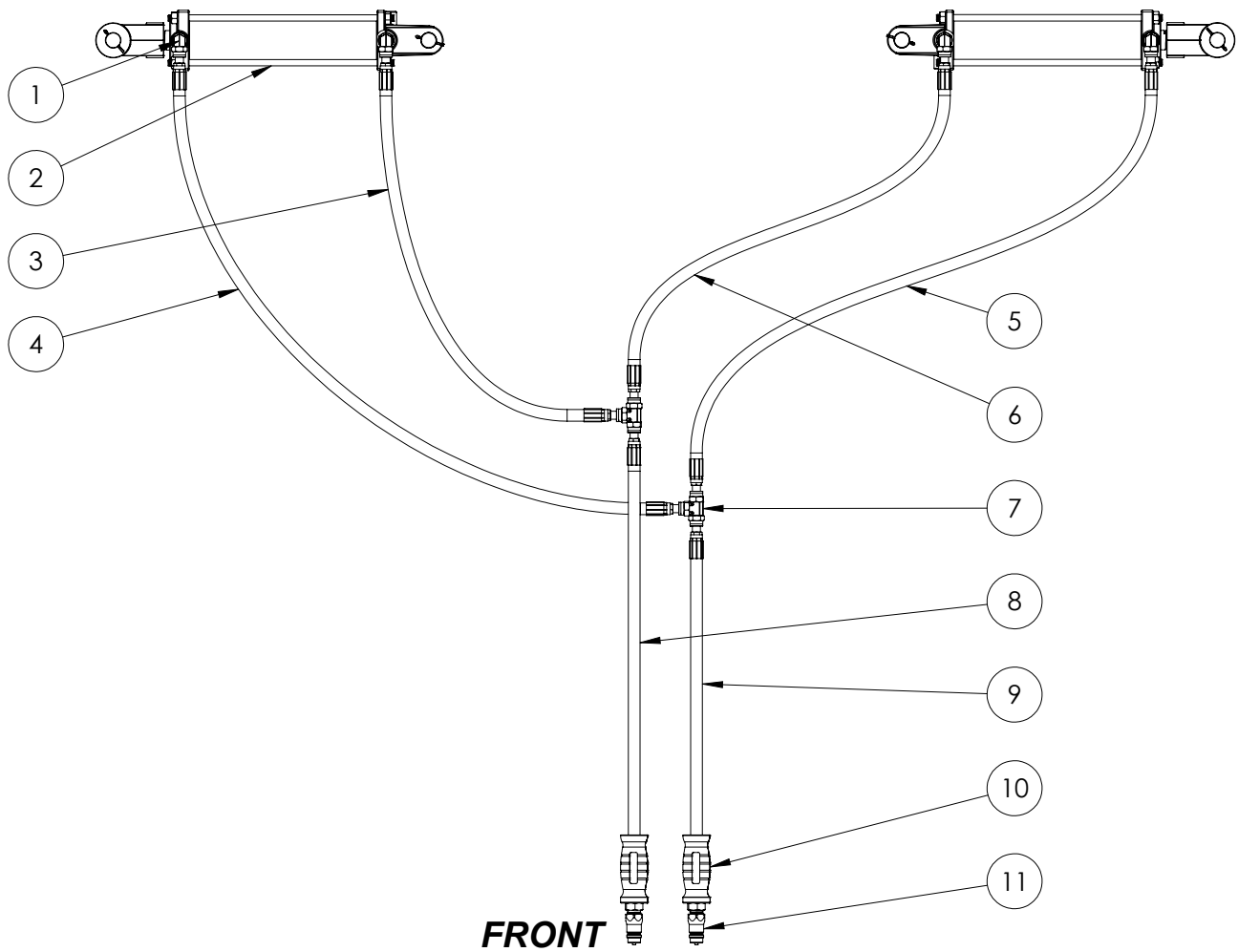


Table: N

Item #	Part #	Description	Seal Kit #
1	R1802030	Elbow, 90°: #6 FORFSX - #6 MORFS	
2	R1925010	Cylinder, Tie-Rod, Black: 2-1/2" x 10"	
3	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 72"	
4	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 90"	
5	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 48"	
6	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 36"	
7	R1802031	Tee: #6 MORFS - #6 MORFS - #6 MORFS	
8	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 180"	
9	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 180"	
10	R1899013	Handle Grip, Yellow: #8 MPT - #8 FPT	
11	R1805001	Male Quick Connect: #8 FPT	

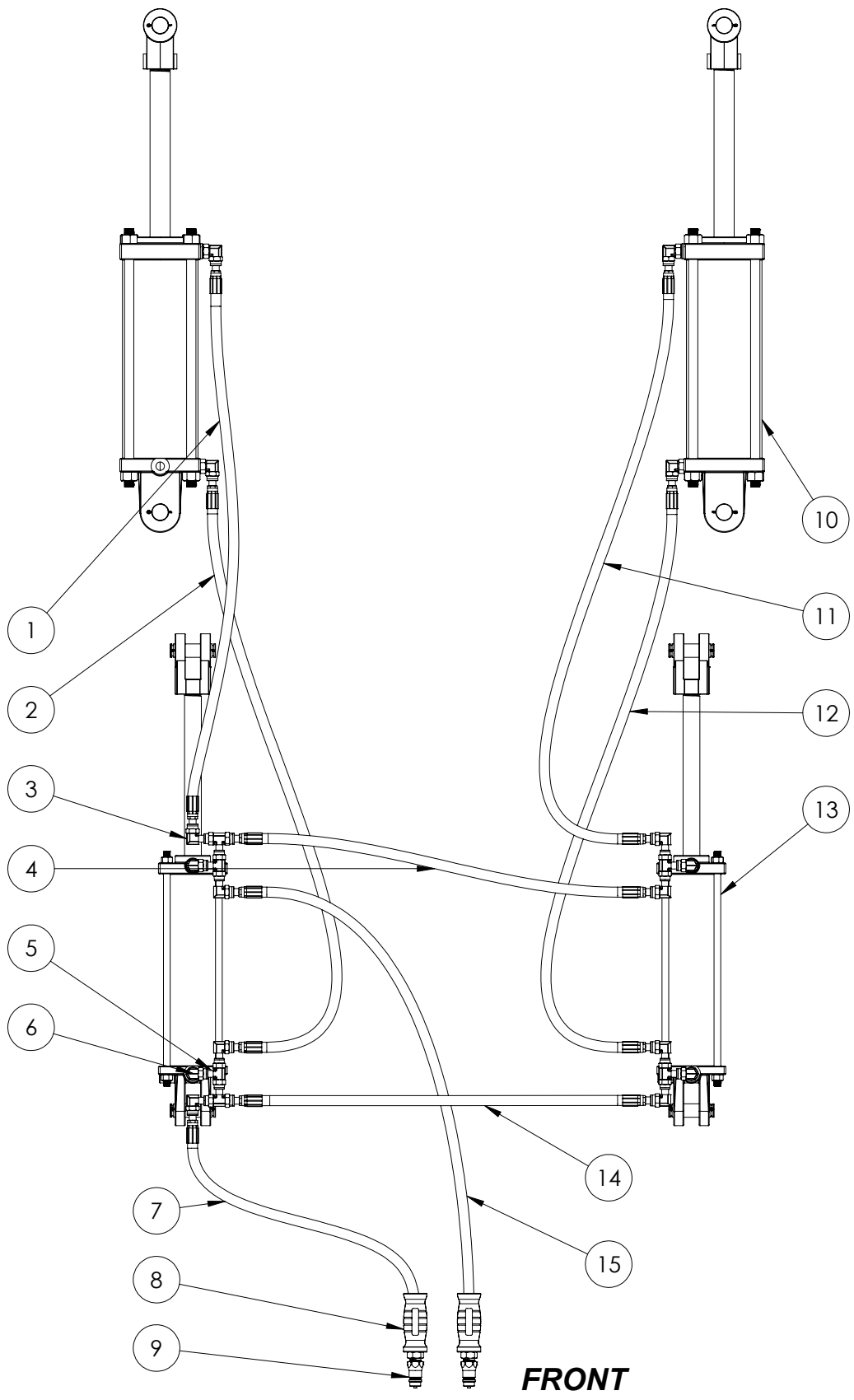


Table: O

Item #	Part #	Description	Seal Kit #
1	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 360"	
2	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 378"	
3	R1802030	Elbow, 90°: #6 MORFS - #6FORFSX	
4	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 76"	
5	R1802032	Tee: #6 MORFS - #6 FORFSX - #6 MORFS	
6	R1802007	Elbow, 90°: #6 MORFS - #8 MORB	
7	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 294"	
8	R1899011	Handle Grip, Green: #8 MPT - #8 FPT	
9	R1805001	Male Quick Connect: #8 FPT	
10	R1951201-01	Cylinder, Tie-Rod, Black: 5" x 12"	KR100007
	R1951201	Cylinder, Tie-Rod, Yellow: 5" x 12"	KR100007
11	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 378"	
12	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 360"	
13	R1941201-01	Cylinder, Tie-Rod, Black: 4" x 12"	KR100000
	R1941201	Cylinder, Tie-Rod, Yellow: 4" x 12"	KR100000
14	n/a	Hydraulic Hose, #6 FORFSX - #6 FORFSX: 3/8" x 69"	
15	n/a	Hydraulic Hose, #8 MPT - #6 FORFSX: 3/8" x 276"	

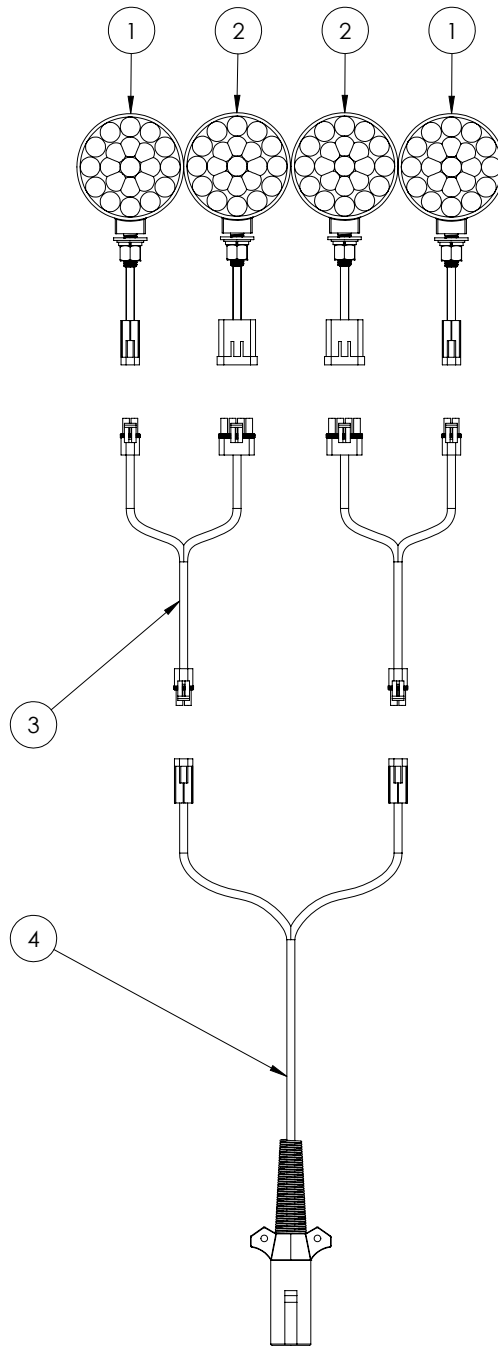


Table: P

Item #	Part #	Description
1	R1701012	Light, LED: Red
2	R1701011	Light, LED: Amber/Amber
3 a)	n/a	Y-Harness, Right: Male Square 4 Pin - Female 3 Pin Flat, Female 2 Pin Flat: 34'
3 b)	n/a	Y-Harness, Left: Male Square 4 Pin - Female 2 Pin Flat, Female 3 Pin Flat: 39'
4	n/a	Y-Harness, Lead: 7 Pin Round - Female Square 4 Pin, Female Square 4 Pin: 23'

LAND ROLLER ACRE COUNTER

CONVERSION CHART

42" Diameter Drum Land Roller	
6'	0.73
8'	0.97
10'	1.21
12'	1.45
15'	1.82
20'	2.42
30'	3.63
34'	4.12
40'	4.85
42'	5.09
45'	5.45
50'	6.06
60'	7.27
61'	7.39
62'	7.51
65'	7.88
70'	8.48
75'	9.09
80'	9.69
85'	10.30

36" Diameter Drum Land Roller	
6'	0.73
8'	0.97
10'	1.21
12'	1.45
15'	1.82
20'	2.42
30'	3.63
34'	4.12
40'	4.85
42'	5.09
45'	5.45
50'	6.06
60'	7.27
61'	7.39
62'	7.51
65'	7.88
70'	8.48
75'	9.09
80'	9.69
85'	10.30

** NOTE **
Acre Counters are specifically calibrated for either a 42" or 36" diameter drum. This is why the multiplier numbers are identical.

** USING THE CONVERSION CHART **

Step 1: Always remember to check acre counter reading before you start rolling.
IMPORTANT!! Write this number down!

Step 2: When finished rolling, calculate the difference from the beginning to end of the acre counter

Step 3: Multiply acre counter number (ending number minus starting number) with the number as associated on the chart above. Make sure to use the right land roller LENGTH and DRUM SIZE

Table: Q		
Item	Part No.	Description
1	AA001001	Acre Counter w/Bracket: 36" Drum (560 rev/mile)
2	AA001002	Acre Counter w/Bracket: 42" Drum (480 rev/mile)



REVISION: 1.0

PART #: R9912020

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