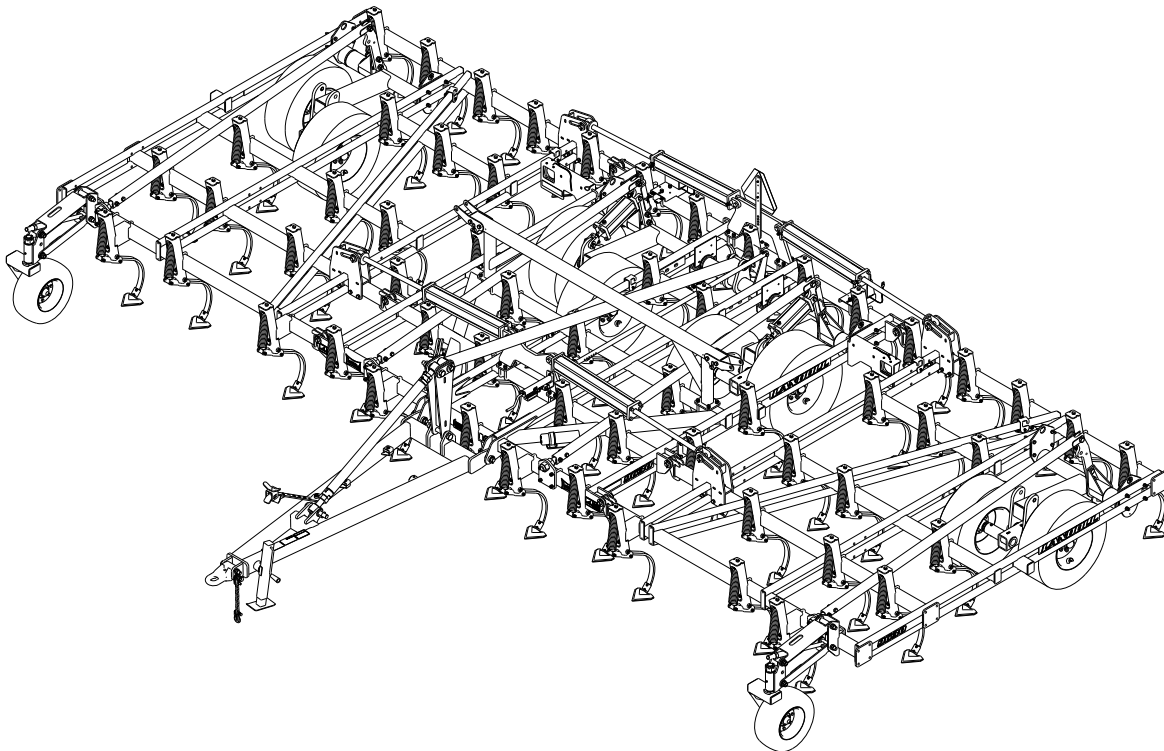




Model 9630 Field Cultivator Parts Manual



LANDOLL CORPORATION

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Instructions For Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

PHONE NO: 1-800-423-4320 OR 1-785-562-5381

FAX NO: 888-527-3909

ORDER ONLINE: Dealer.landoll.com

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame (See Figure 1-1..)

SERIAL NUMBER NOMENCLATURE

The serial number for the Model 9630 Field Cultivator is located on the identification plate.

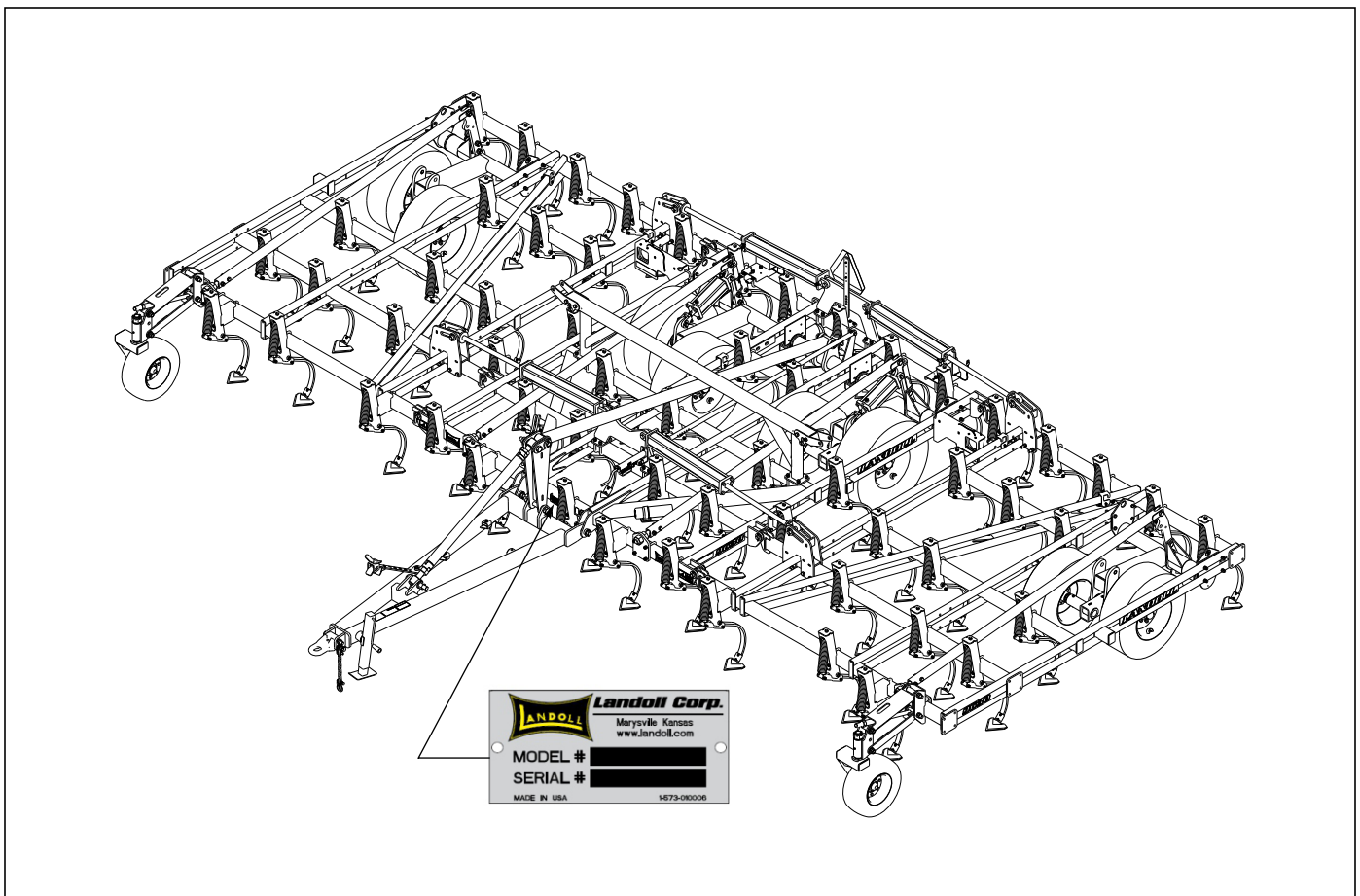


Figure 1-1: Identification Plate and Location

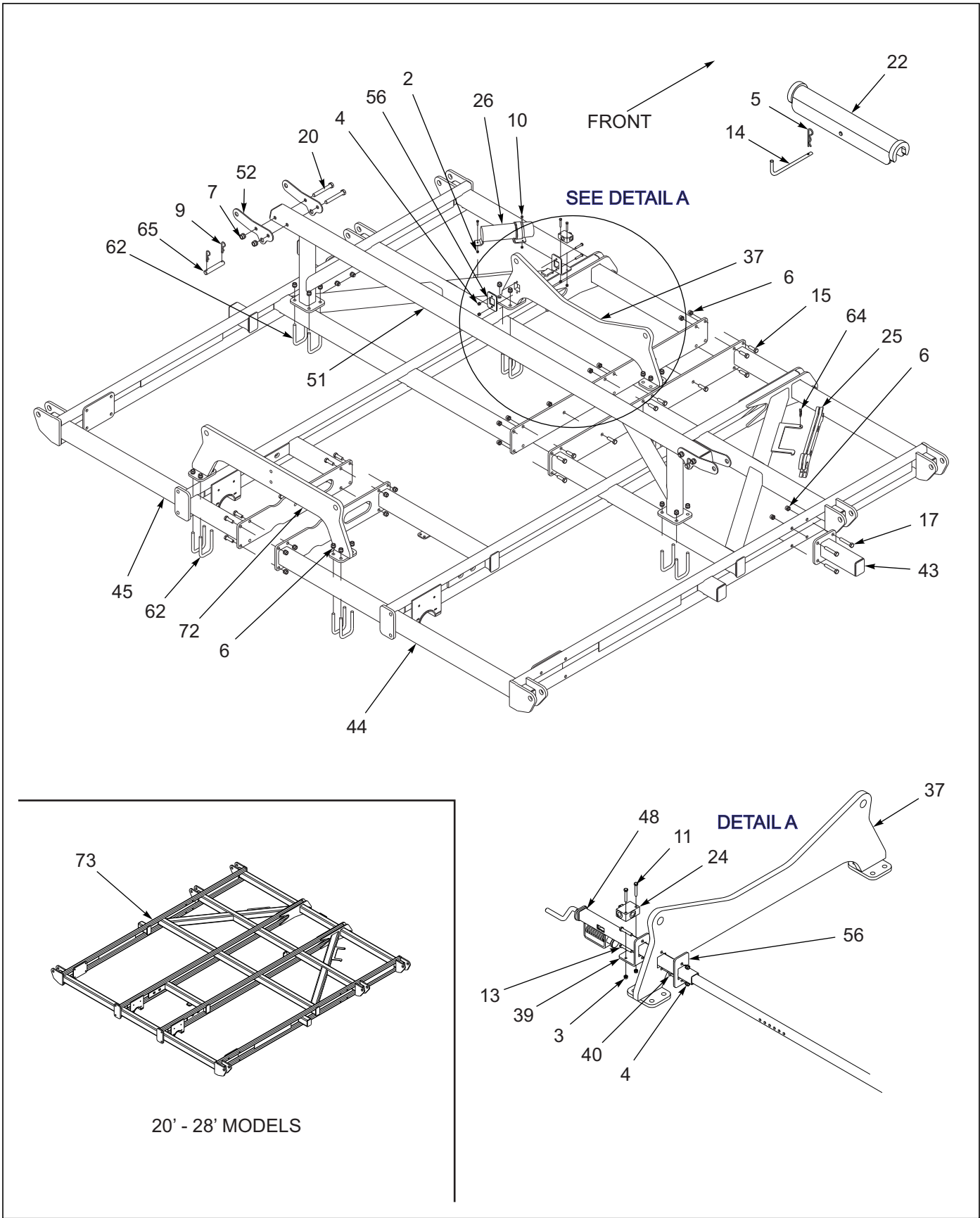


Figure 1-2: Center Frame and Lift Assembly (1 of 2)

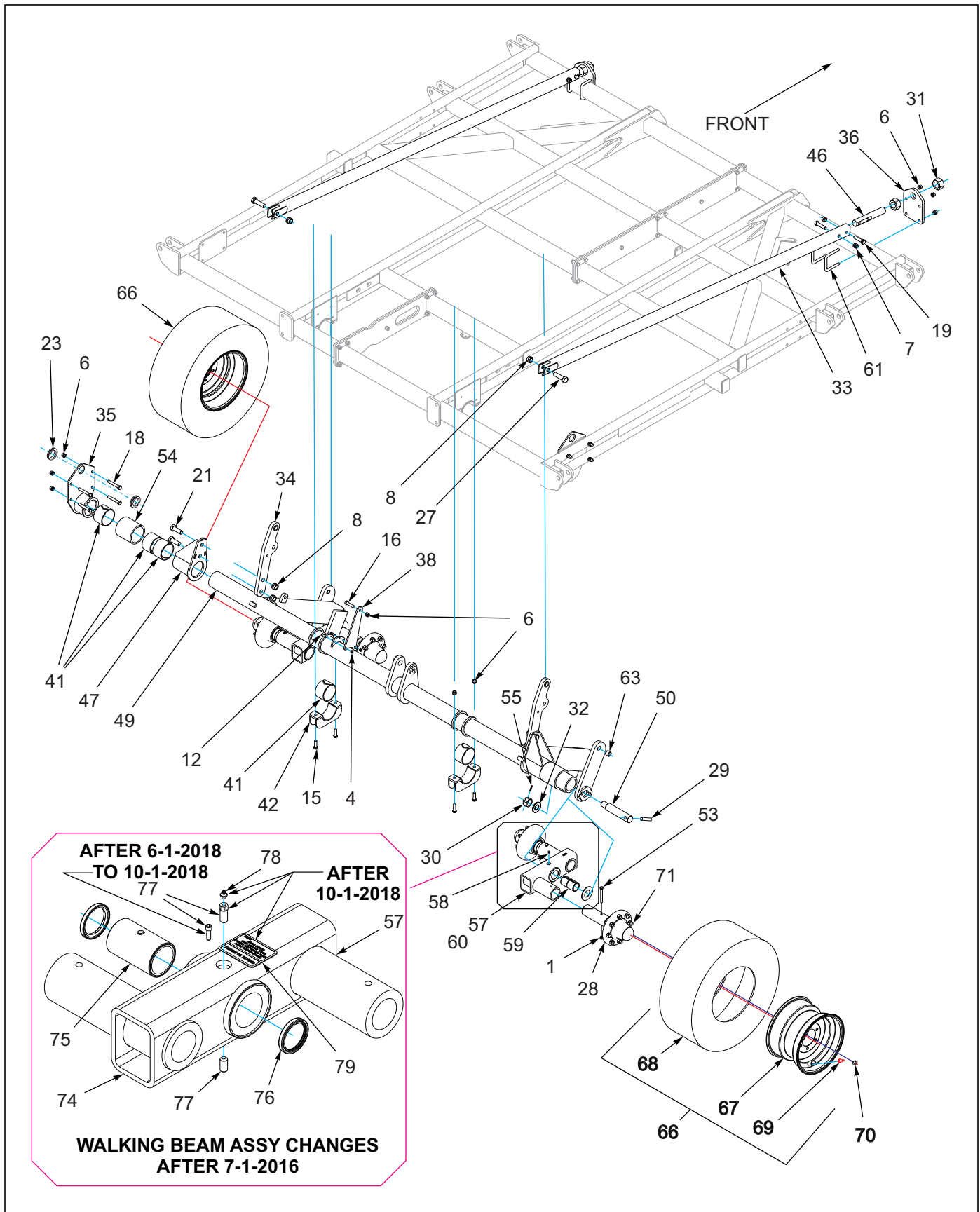


Figure 1-3: Center Frame and Lift Assembly (2 of 2)

CENTER FRAME AND LIFT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
1	101988	NUT, HEX LOCK 7/16-14 GRB	4
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
4	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
5	1-557-010403	HAIRPIN 1/8	2
6	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	76
7	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	8
8	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	6
9	1-557-010013	PIN, HAIR 3/16	4
10	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
11	1-654-010049-09	SCREW, HEX HEAD CAP 5/16-18 X 2 GR5	2
12	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
13	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	2
14	104358	L-PIN, CYLINDER STOP	2
15	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	27
16	1-654-010059-07	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR5	1
17	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	8
18	1-654-010059-13	SCREW, HEX HEAD CAP 5/8-11 X 4 GR5	8
19	1-654-010061-09	SCREW, HEX HEAD CAP 3/4-10 X 3 GR5	4
20	1-654-010061-16	SCREW, HEX HEAD CAP 3/4-10 X 5-1/2 GR5	4
21	1-654-010065-08	SCREW, HEX HEAD CAP 1-8 X 2-3/4 GR5	4
22	141274	LOCKOUT 1-3/8 X 10	2
23	1-822-010001	TRIM, 3/8 BLACK FINE PEBBLE	AR
24	185660	VALVE, LIMIT	1
25	141109	ADJUSTMENT WRENCH	2
26	142753	MANUAL HOLDER	1
27	151508	SCREW, HEX HEAD CAP 1-8 X 3-1/2 GR5	2
28	164352	HUB AND SPINDLE ASSEMBLY, 2-1/4" SPINDLE 6 BOLT (20' - 24') (SEE PAGE 1-13) (NOT SHOWN)	4
28	147553	HUB AND SPINDLE ASSEMBLY, 2-1/4" SPINDLE 8 BOLT (28 - 34') (SEE PAGE 1-7) (SHOWN)	4
29	156992	PIN, WALKING BEAM SPINDLE	2
30	119118	NUT 1-1/2-12UNF HEX SLOTTEDZP	2
31	159954	NUT, HEX 1-3/4-5 GRB	4
32	171070	WASHER, THRUST 2	4
33	161525	LIFT ARM	2
34	161531	CYLINDER ARM	2
35	162845	BEARING CAP 4-1/2	2
36	162851	MOUNT, LIFT ARM	2
37	162900	MOUNT WLDMT FOLD CYLINDER (20' - 28')	1
37	191488	MOUNT WLDMT FOLD CYL FRONT (30' - 34') (4-1/2" FOLD CYLINDERS) (38-3/4 PIN CENTERS) (AFTER 7/28/2016)	1
38	164124	MOUNT, DEPTH CONTROL	1
39	164125	MOUNT, DCV VALVE	1
40	164126	PLATE, SLIDE	1
41	164175	BEARING, UHMW 4-1/2 X 3	8
42	164186	MOUNT, BEARING LIFT	2
43	164200	EXTENSION, SHANK 12"	2
44	164215	FRAME, RIGHT CENTER 12-1/2' (30' - 34')	1

CENTER FRAME AND LIFT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
45	164216	FRAME, LEFT CENTER 12-1/2' (30' - 34')	1
46	164246	SCREW, ADJUSTMENT	2
47	164256	BEARING, HOUSING	2
48	164260	DEPTH STOP TUBE ASSEMBLY (SEE PAGE 1-15)	1
49	164270	LIFT, CENTER 11' (20' - 28')	1
49	164271	LIFT, CENTER 12-1/2' (30' - 34')	1
50	164277	SPINDLE, WALKING BEAM 2-1/4	2
51	168805	WING STABILIZER (20' - 28')	1
51	166248	WING STABILIZER (30' - 34')	1
52	168816	BRACKET, WING STABILIZER (20' - 28')	4
52	164286	BRACKET, WING STABILIZER (30' - 34')	4
53	141809	SCREW, HEX HEAD CAP 7/16-14 X 4 GR5	4
54	166156	SPACER, BEARING HOUSING	2
55	127712	PIN SPRING SLOTTED 3/8X2-1/4	2
56	166250	CLAMP PLATE, STROKE CONTROL	1
57	164274	WALKING BEAM ASSEMBLY, 2-1/4" (BEFORE 7-1-2016) (INCL. ITEMS 58-60)	2
57	199362	WALKING BEAM ASSY 2-1/4 MF (AFTER 7-1-2016) (INCL. ITEMS 74-77)	2
58	153804	FITTING, GREASE 1/4-28 STR LONG	4
59	158903	BUSHING, SPRING 2-1/2 X 2 X 4-5/8	2
60	164273	WALKING BEAM, 2-1/4"	2
61	2-102-010004	U-BOLT	4
62	2-102-010054	U-BOLT	12
63	2-150-010008	BUSHING, STEEL	2
64	70239854	PIN, QUICK HITCH	1
65	8-557-010149	PIN, 1 X 6	2
66	184708	TIRE AND WHEEL ASSEMBLY 320/70R15 (INCL ITEMS 67 - 69) (28' - 34') (SHOWN)	4
66	142650	TIRE AND WHEEL ASSEMBLY 280/70R15 (INCL ITEMS 67-69) (20' - 24')	4
67	140548	WHEEL, 15 X 10 LB 8 BOLT (184708)	1
67	140547	WHEEL, 15 X 10 LB 6 BOLT (142650)	1
68	204385	FIRESTONE RADIAL 320/70R15 (184708)	1
68	204384	FIRESTONE RADIAL 280/70R15 (142650)	1
69	415	VALVE STEM (28'-34')	1
69	TR575	VALVE STEM, TUBELESS TIRE (20'-24')	1
70	102600	LUG NUT (8 BOLT)	8
71	143067	WHEEL STUD (8 BOLT)	8
72	168813	MOUNT, FOLD CYLINDER REAR (28')	1
72	191490	MOUNT WLDMT FOLD CYL REAR (30' - 34') (4-1/2" FOLD CYLINDERS) (38-3/4 PIN CENTERS) (AFTER 7/28/2016)	1
73	164214	FRAME, CENTER 11' (20' - 28')	1
74	199363	WALKING BEAM WLD 2-1/4 SPINDLE	2
75	200310	TANDEM PIVOT ASSY 2"	2
76	198322	SEAL, V17, DOUBLE LIP 2"	4
77	200129	SCREW SOCKET HD CAP 5/16-24X1	4
77	212046	SCREW, SET FOR ZERK (AFTER 10/1/2018)	2
77	15G816ER	SCREW SET SOC HD CPPT.5-13X1 (AFTER 10/1/2018)	1
78	1-298-010001-1	ZERK FITTING 1/4 SAE (AFTER 10/1/2018)	1
79	215341	DECAL, GREASE WALKER (AFTER 10/1/2018)	1

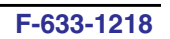


Figure 1-4: Hub and Spindle Assembly, 8-Bolt

HUB AND SPINDLE ASSEMBLY, 8 BOLT

ITEM	PART NO.	DESCRIPTION	QTY.
--	147553	8 BOLT HUB/SPINDLE ASSEMBLY, 2-1/4"	
1	1-516-010001-20	NUT, HEX SLOT 1-14	1
2	1-557-010362-51	PIN, COTTER 3/16 X 1-1/2	1
3	1-076-010007	CONE, OUTER BEARING	1
4	140554	SEAL, GREASE	1
5	141236	DUST CAP, WHEEL HUB	1
6	141238	WASHER, SPINDLE	1
7	1-076-010010	BEARING CUP	1
8	140595	CONE, BEARING	1
9	140646	HUB W/ CUPS 8 BOLT (INCL ITEMS 7 & 11)	1
10	141198	SPINDLE 2-1/4"	1
11	140594	CUP, BEARING INNER	1
12	102600	LUG NUT (8 BOLT)	1
13	143067	WHEEL STUD (8 BOLT)	1
14	141867	HUB ASSEMBLY, 8 BOLT (NOT SHOWN) (INCL. ITEMS 3-5, 8-9)	

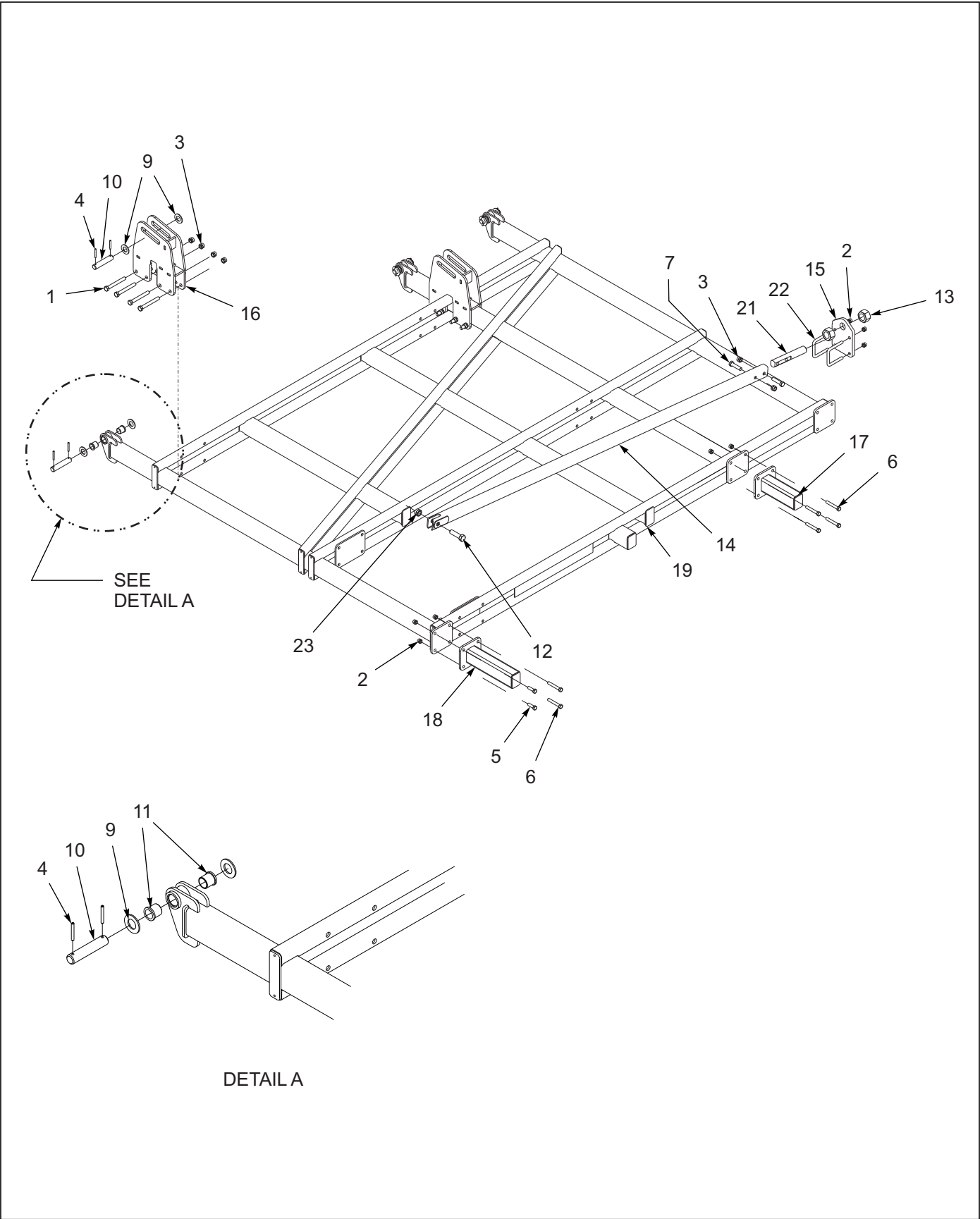


Figure 1-5: Wing Assembly

WING ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
1	W908409-4	SCREW, HEX HEAD CAP 3/4-10 X 6	8
2	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	16
3	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	10
4	1-647-010004240	PIN, SPRING SLOTTED 5/16 X 2-1/2	6
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	2
6	1-654-010059-13	SCREW, HEX HEAD CAP 5/8-11 X 4 GR5	10
7	1-654-010061-09	SCREW, HEX HEAD CAP 3/4-10 X 3 GR5	2
8	1-822-010001	TRIM, 3/8 BLACK FINE PEBBLE (NOT SHOWN)	AR
9	116100	WASHER, FLAT 1-1/4N	6
10	141244	PIN, FOLD	3
11	168787	BEARING, FLANGE 1-1/4 X 1-3/8 (20' & 24')	6
11	144460	BEARING, FLANGE 1-1/4 (28' - 34')	6
12	151508	SCREW, HEX HEAD CAP 1-8 X 3-1/2 GR5	1
13	159954	NUT, HEX 1-3/4-5 GRB	2
14	161525	LIFT ARM	1
15	162851	MOUNT, LIFT ARM	1
16	166228	MOUNT, HINGE INNER	2
17	164200	EXTENSION, SHANK 12" (34')	1
18	164201	EXTENSION, SHANK 16" (34')	1
19	168760	FRAME, WING RIGHT 6' (20') (NOT SHOWN)	1
19	166185	FRAME, WING RIGHT 8' (24) (NOT SHOWN)	1
19	164219	FRAME, WING RIGHT 10' (28' - 34')(SHOWN)	1
20	168761	FRAME, WING LEFT 6' (20') (NOT SHOWN)	1
20	166186	FRAME, WING LEFT 8' (24') (NOT SHOWN)	1
20	164220	FRAME, WING LEFT 10' (28' - 34')(NOT SHOWN)	1
21	164246	ADJUSTMENT SCREW	1
22	2-102-010004	U-BOLT	2
23	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1

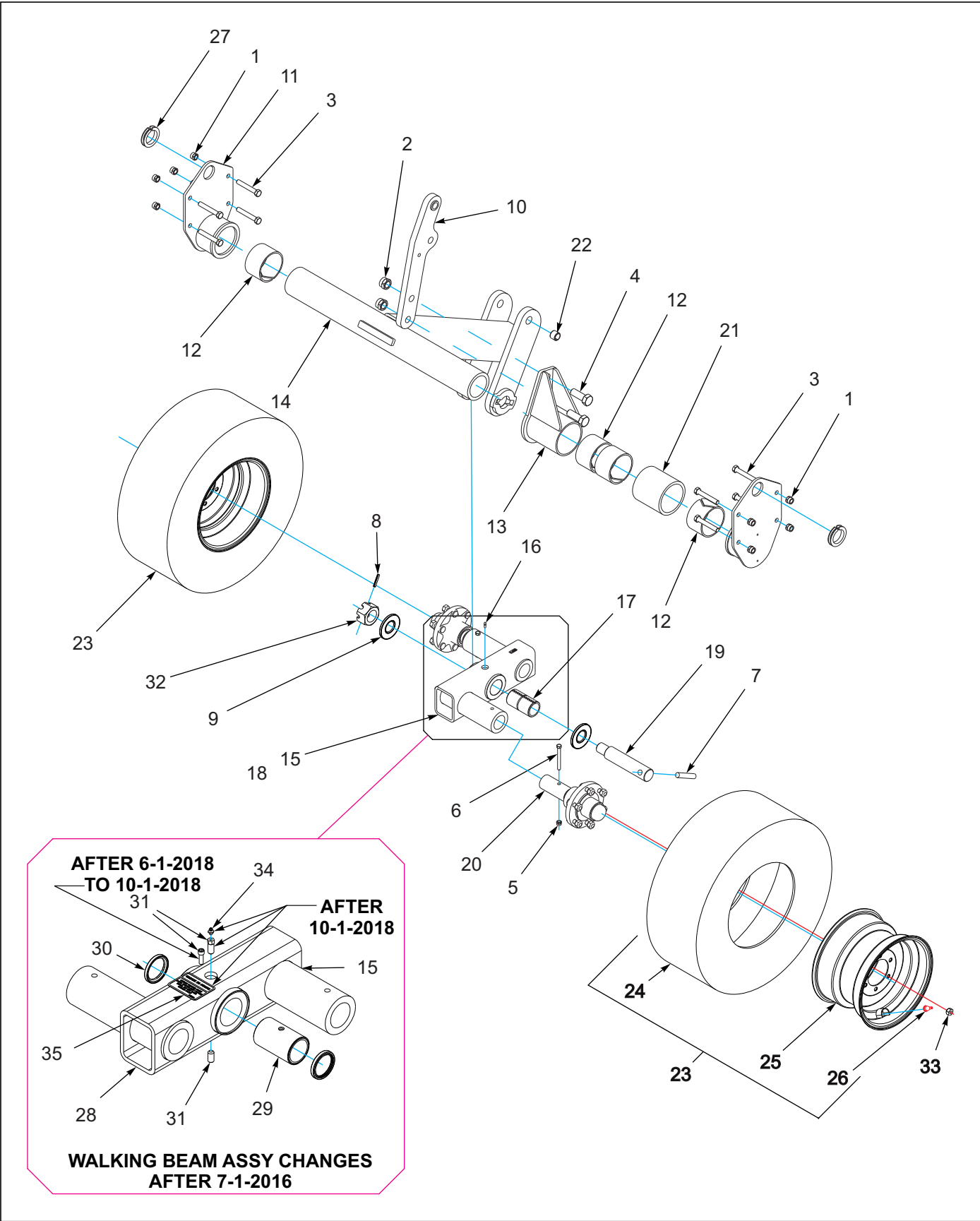


Figure 1-6: Wing Lift Assembly

WING LIFT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
2	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
3	1-654-010059-13	SCREW, HEX HEAD CAP 5/8-11 X 4 GR5	4
4	1-654-010065-08	SCREW, HEX HEAD CAP 1-8 X 2-3/4 GR5	2
5	101988	NUT, HEX LOCK 7/16-14 GRB	2
6	141809	SCREW, HEX HEAD CAP 7/16-14 X 4 GR5	2
7	156992	PIN, WALKING BEAM SPINDLE	1
8	127712	PIN SPRING SLOTTED 3/8X2-1/4	1
9	171070	WASHER, THRUST 2	2
10	161531	CYLINDER ARM	1
11	162845	BEARING CAP, 4-1/2	2
12	164175	BEARING, UHMW 4-1/2 X 3	4
13	164256	BEARING, HOUSING	1
14	164272	LIFT, WING	1
15	164274	WALKING BEAM ASSEMBLY, 2-1/4" (BEFORE 7-1-2016) (INCL. ITEMS 16-18)	2
15	199362	WALKING BEAM ASSY 2-1/4 MF (AFTER 7-1-2016) (INCL. ITEMS 28-30)	2
16	153804	FITTING, GREASE 1/4-28 STR LONG	2
17	158903	BUSHING, SPRING 2-1/2 X 2 X 4-5/8	1
18	164273	WALKING BEAM, 2-1/4"	1
19	164277	SPINDLE, WALKING BEAM 2-1/4	1
20	164352	HUB ASSEMBLY 6 BOLT 2-1/4" SPINDLE (SEE PAGE 1-13)	2
21	166156	SPACER, BEARING HOUSING	1
22	2-150-010008	BUSHING, STEEL 1-1/4OD X 1ID X 1	1
23	142650	TIRE & WHEEL ASSY, 280/70R15 (INCL. ITEMS 24 - 26)	4
24	204384	FIRESTONE RADIAL 280/70R15	1
25	140547	WHEEL, 15 X 10 LB 6 BOLT	1
26	415	VALVE STEM	1
27	1-822-010001	TRIM, 3/8 BLACK FINE PEBBLE	AR
28	199363	WALKING BEAM WLD 2-1/4 SPINDLE	2
29	200310	TANDEM PIVOT ASSY 2"	2
30	198322	SEAL, V17, DOUBLE LIP 2"	4
31	200129	SCREW SOCKET HD CAP 5/16-24X1	4
31	212046	SCREW, SET FOR ZERK (AFTER 10-1-2018)	4
31	15G816ER	SCREW SET SOC HD CPPT.5-13X1 (AFTER 10-1-2018)	2
32	119118	NUT 1-1/2-12UNF HEX SLOTTEDZP	1
33	210606	WHEEL NUT 9/16-18UNF	6
34	1-298-010001-1	ZERK FITTING 1/4 SAE (AFTER 10-1-2018)	2
35	215341	DECAL, GREASE WALKER (AFTER 10-1-2018)	1

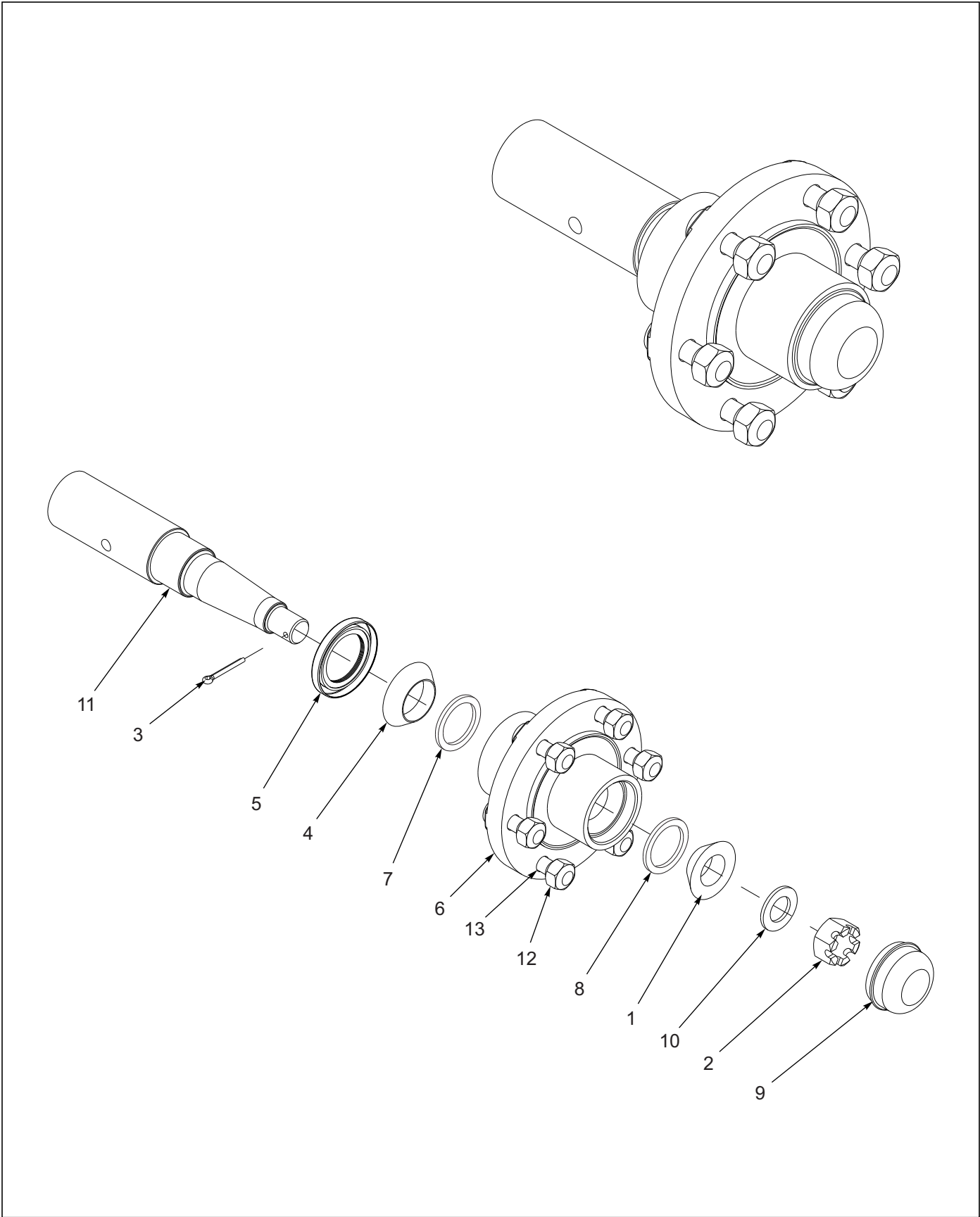


Figure 1-7: Hub and Spindle Assembly, 6-Bolt

HUB AND SPINDLE ASSEMBLY, 6 BOLT

ITEM	PART NO.	DESCRIPTION	QTY.
--	164352	HUB ASSEMBLY 6 BOLT 2-1/4" SPINDLE	
1	1-076-010007	CONE, INNER	1
2	1-516-010001-20	NUT, HEX SLOT 1-14	1
3	1-557-010362-51	PIN, COTTER 3/16 X 1-1/2	1
4	102498	BEARING CONE, OUTER	1
5	140554	SEAL, GREASE	1
6	140645	HUB W/ CUPS 6 BOLT (INCL. ITEMS 7-8, 12-13)	1
7	102604	CUP, BEARING	1
8	1-076-010010	CUP, BEARING	1
9	141236	DUST CAP, WHEEL HUB	1
10	141238	WASHER, SPINDLE	1
11	164349	SPINDLE, 2-1/4	1
12	210606	LUG NUT	6
13	143066	STUD BOLT	6
14	141866	HUB ASSEMBLY, 6 BOLT (NOT SHOWN) (INCL. ITEMS 1, 4-6, 9)	

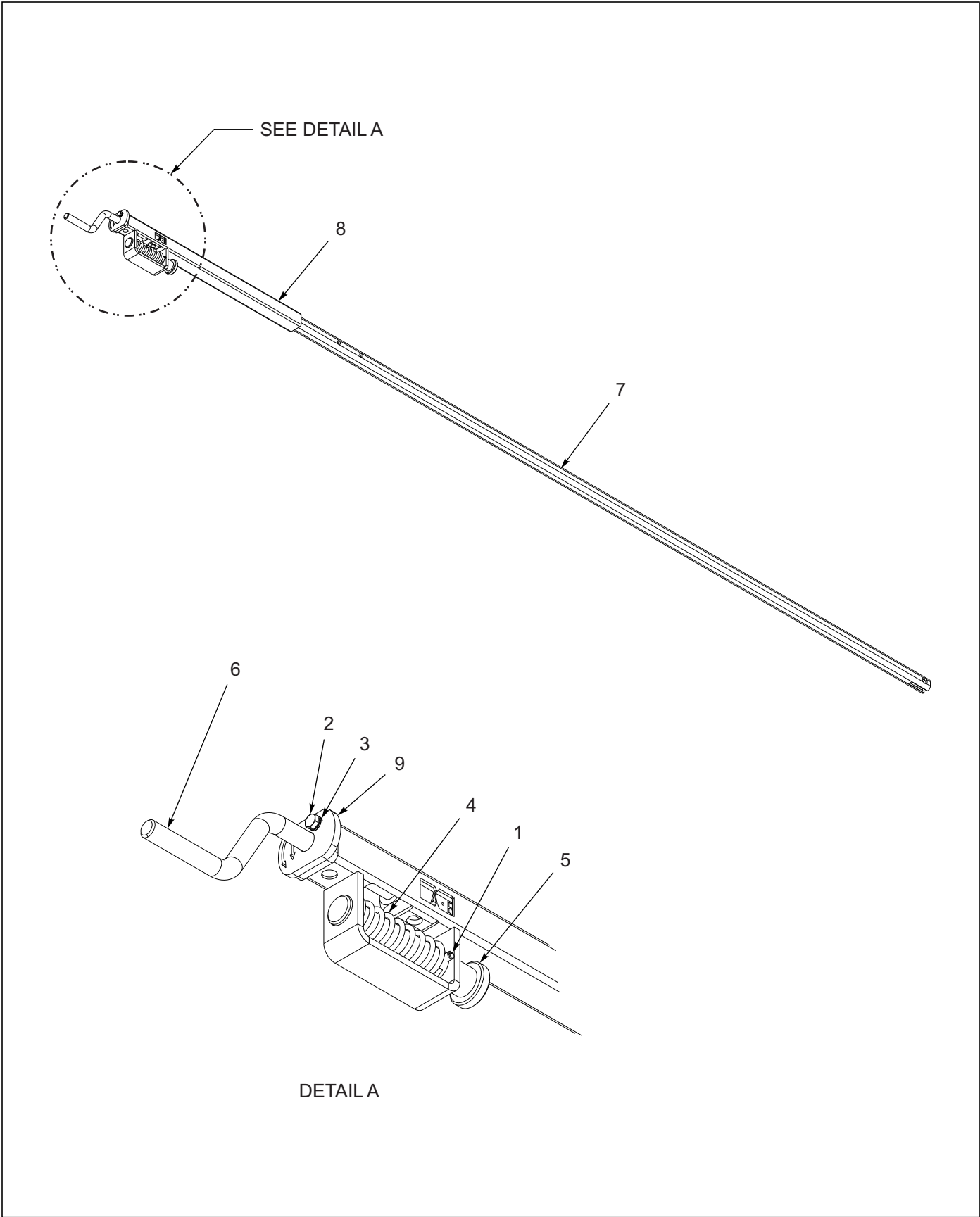


Figure 1-8: Depth Stop Tube Assembly

DEPTH STOP TUBE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
--	164260	TUBE ASSEMBLY, DEPTH STOP	1
1	1-647-010004217	SPRING PIN, SLOTTED 1/4 X 1-1/2	1
2	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	1
3	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
4	122917	SPRING COMPRESSION 4-1/2	1
5	141213	PIN, DEPTH STOP	1
6	141217	HANDLE, DEPTH STOP	1
7	164261	TUBE, DEPTH STOP	1
8	164263	TUBE, DEPTH STOP W/ INDICATOR	1
9	166158	WASHER, DEPTH STOP	1

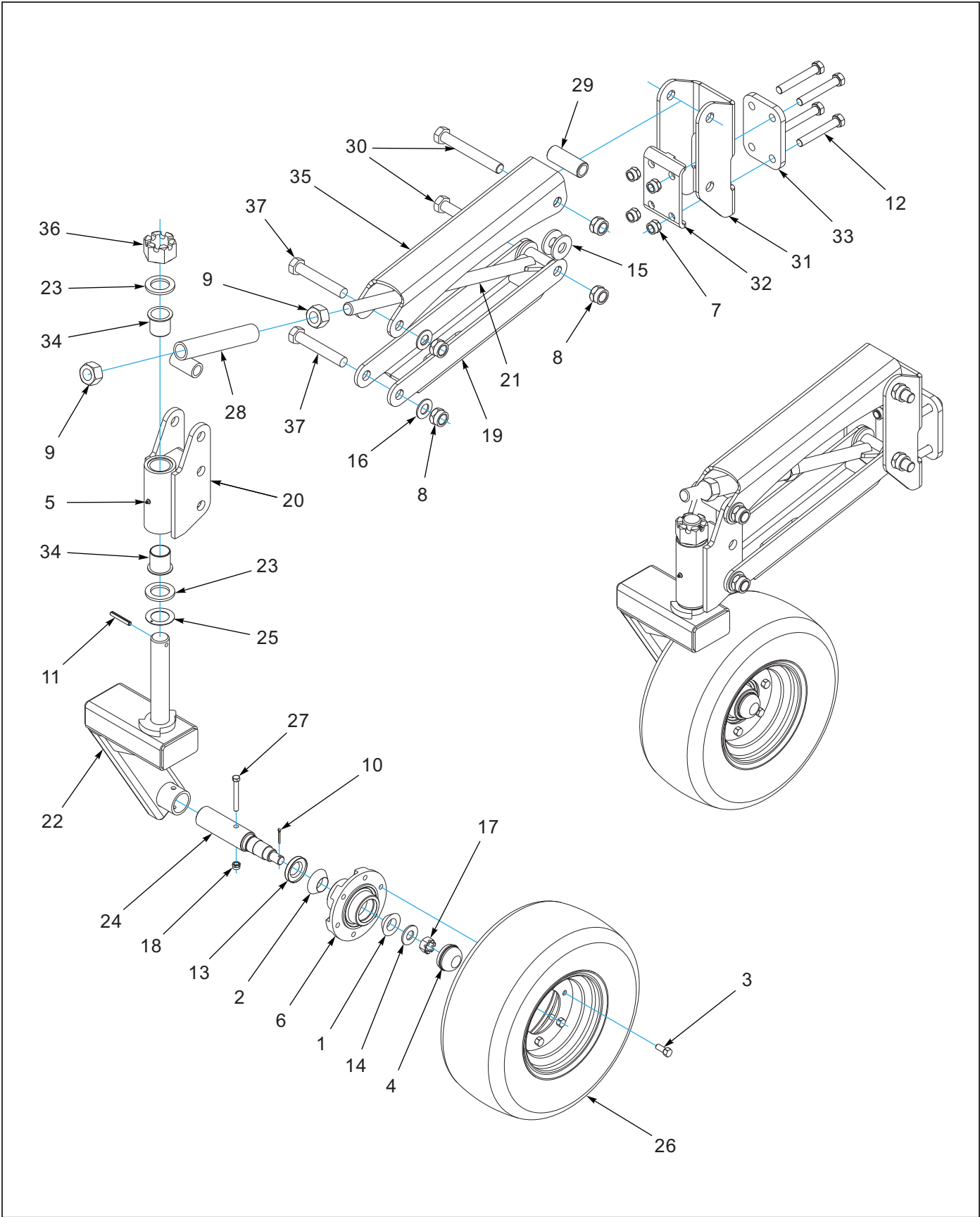


Figure 1-9: Front Gauge Wheel Assembly

FRONT GAUGE WHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
--	164300	GAUGE WHEEL ASSY	1
1	1-076-010007	CONE INNER	1
2	1-076-010009	CONE INNER	1
3	1-104-010002	WHEEL BOLT1/2X1-3/8 S	6
4	1-161-010003	CAP 6BOLT HUB	1
5	1-298-010001-1	ZERK FITTING 1/4 SAE	1
6	1-406-010012	HUB 6 BOLT W/CUPS	1
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
8	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	4
9	1-512-010007-16	NUT,HEX 1-1/4-7 GR2 ZP	2
10	1-557-010362-40	PIN, COTTER 5/32X1-1/4	1
11	1-647-010004257	PIN,SPRING,SLOTTED 3/8X2-1/2	1
12	1-654-010061-15	SCREW,HX CP 3/4-10UNCX5 GR5	4
13	1-659-010004	1-5/8 ID GREASE SEAL	1
14	1-861-010004	WASHER SPINDLE 7/8	1
15	1-861-010005	WASHER, SPINDLE 1	4
16	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
17	100966	NUT, HEX SLOTTED 7/8-14	1
18	101988	NUT,HEXSLF-LKG 7/16-14 GRB	1
19	140658	LINK, GAUGE WHEEL	1
20	140663	HUB, GAUGE WHEEL WLDMT	1
21	140667	ROD WLDMT, GAUGE WHEEL	1
22	140672	AXLE WLDMT GAUGE WHEEL	1
23	141154	WASHER GANG SHAFT	2
24	141245	SPINDLE, GAUGE WHEEL	1
25	141258	WASHER, THRUST 1-3/4	1
26	141271	TIRE AND WHEEL ASSY,FRT YELLOW	1
27	141808	SCREW HX CP7/16-14UNCX3-1/2G5	1
28	144199	CROSS, GAUGE WHEEL WLDMT	1
29	152209	BUSHING, PIVOT 1-1/2	1
30	153696	BOLT, HITCH CLEVIS	2
31	164296	MOUNT, GAUGE WHEEL	1
32	164297	MOUNTING PLATE, GAUGE WHEEL	1
33	164298	CLAMP PLATE, GAUGE WHEEL	1
34	164533	BEARING, FLANGE 1-3/4	2
35	183910	LINK, GAUGE WHEEL TOP	1
36	23085	NUT HEX SLOTTED 1 3/4-5	1
37	8-105-010003	HINGE PIVOT BOLT	2

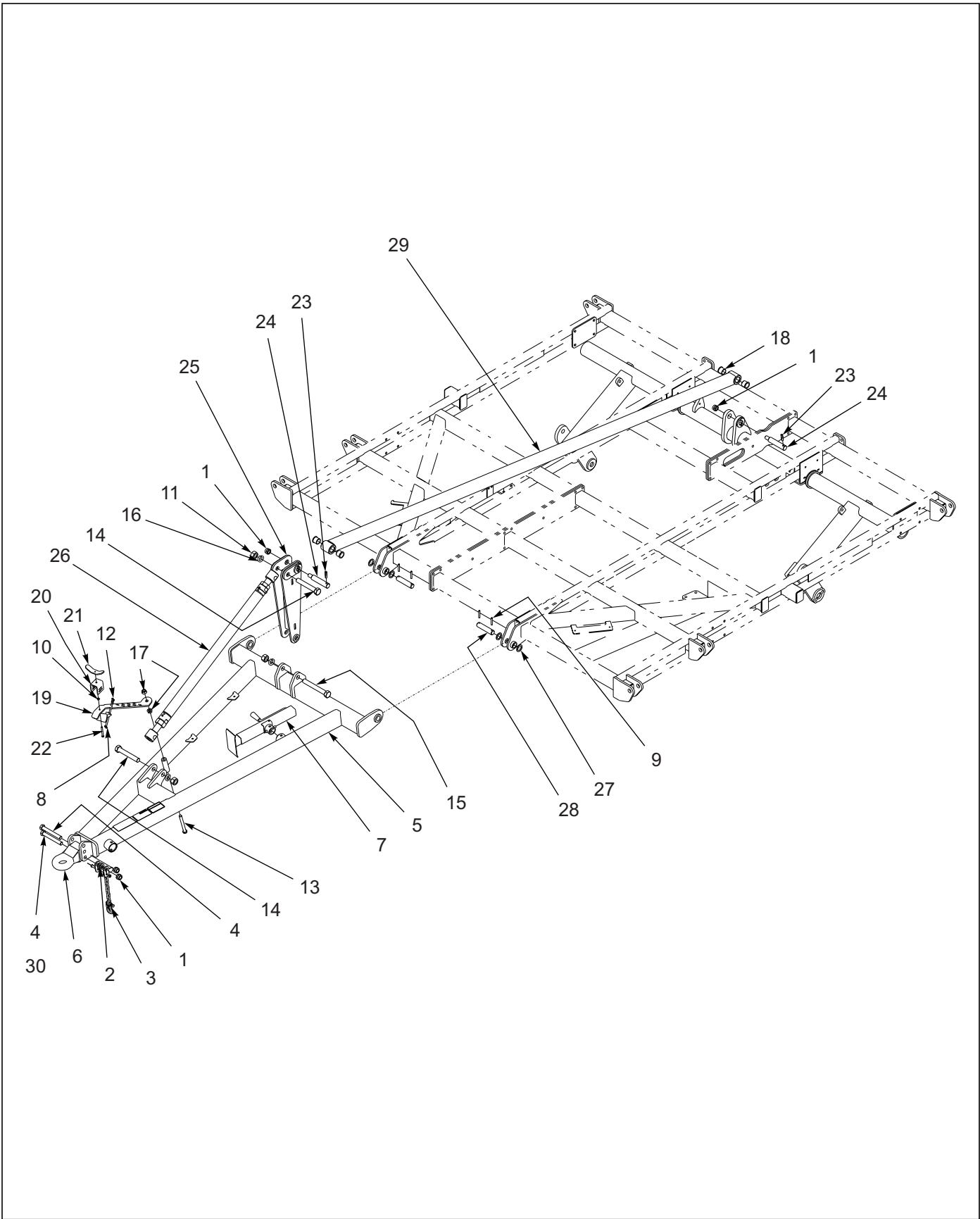


Figure 1-10: Hitch and Leveling Linkage Assembly

HITCH AND LEVELING LINKAGE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
--	164247	HITCH ASSEMBLY, CAT IV (INCL. ITEMS 1-6)	
--	166284	HITCH ASSEMBLY, CAT III (INCL. ITEMS 1-6)	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
2	1-861-010032-24	WASHER, FLAT 1N	2
3	141434	SAFETY CHAIN 21,000 LB. (20' - 28')	1
3	161536	HOOK, SAFETY CHAIN 21,000 LB.	1
3	156950	SAFETY CHAIN 41,000 LB. (30' - 34')	1
4	153696	BOLT, HITCH CLEVIS	2
5	162860	HITCH, CULTIVATOR (20' - 28')	1
5	164180	HITCH, CULTIVATOR (30' - 34')	1
6	2-375-010602	HITCH RING, CAT IV (164247)	1
6	2-375-010601	HITCH RING, CAT III (166284)	1
7	140647	JACK, SIDEWIND 7,000 LB. (SEE PAGE 1-21)	1
8	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2
9	1-647-010004240	PIN, SPRING SLOTTED 5/16 X 2-1/2	8
10	1-512-010007-07	NUT, HEX 3/8-16	1
11	1-512-010007-16	NUT, HEX 1-1/4-7	2
12	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
13	1-654-010061-19	SCREW, HEX HEAD CAP 3/4-10 X 7 GR5	1
14	1-654-010123-01	SCREW, HEX HEAD CAP SPECIAL 1-1/4-7 X 8 GR8	1
15	100808	SCREW, HEX HEAD CAP 1-1/4-7 X 9-1/2 GR8	1
16	100825	WASHER, SPLIT LOCK 1-1/4	1
17	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	2
18	140599	BEARING, FLANGE 1-1/2	4
19	141246	BRACKET, HOSE HOLDER	1
20	141247	CLAMP, HOSE HOLDER	1
21	141249	WING NUT, HOSE HOLDER	1
22	141807	SCREW, ALL THREAD 3/8-16 X 3-1/2	1
23	144115	PIN, GROOVED ALLOY 1/2 X 2-1/4	2
24	144493	PIN, HITCH	2
25	145190	TOWER, LEVELER	1
26	155541	RADIUS ROD ASSEMBLY, 1-3/4 (SEE PAGE 1-20)	1
27	164174	BUSHING, MACHINE	8
28	164178	PIN, HITCH	4
29	162865	LEVELER TUBE	1
30	1-654-010125-22	SCREW, HEX HEAD CAP 1-8 X 8-1/2 GR8 (30' - 34')	1

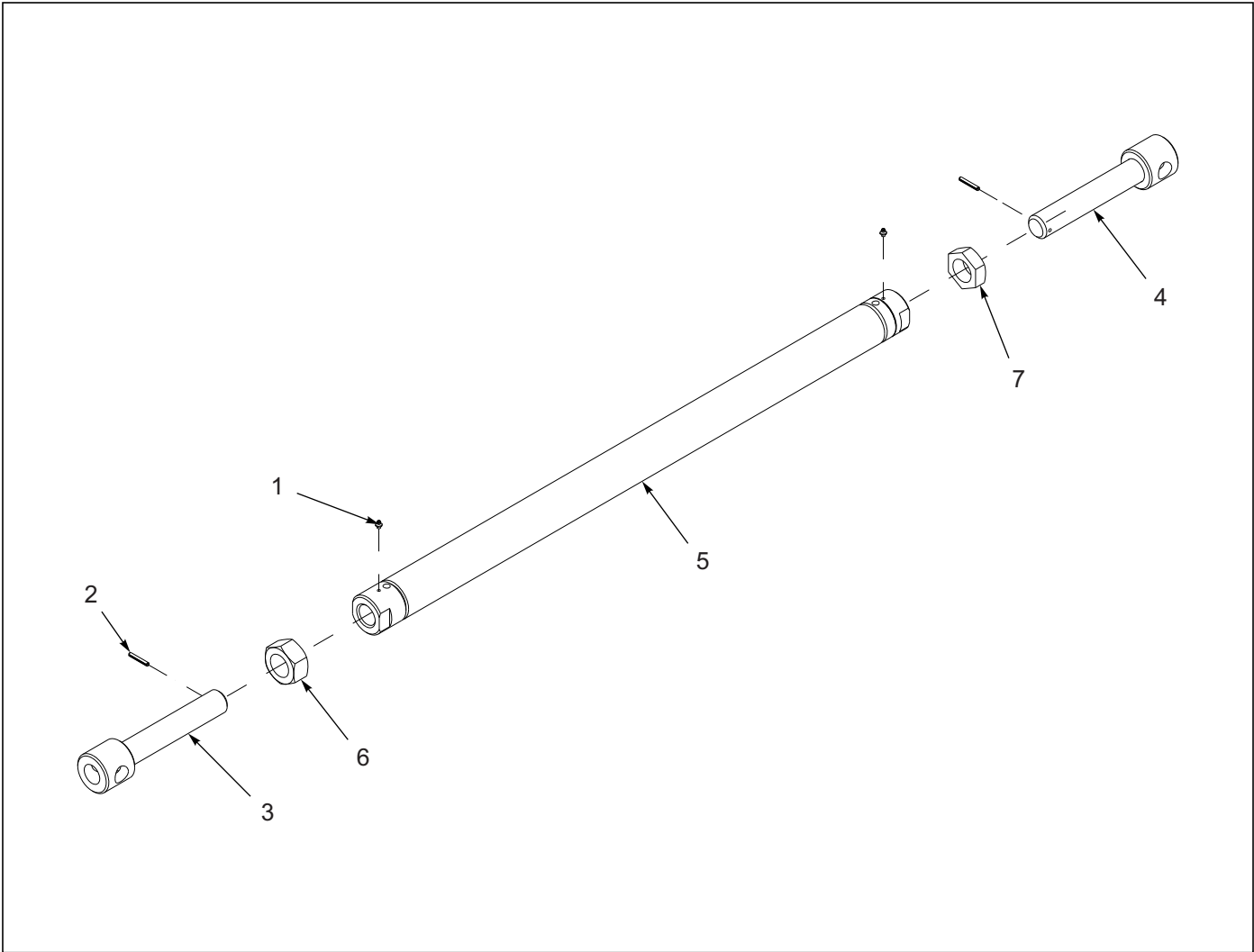
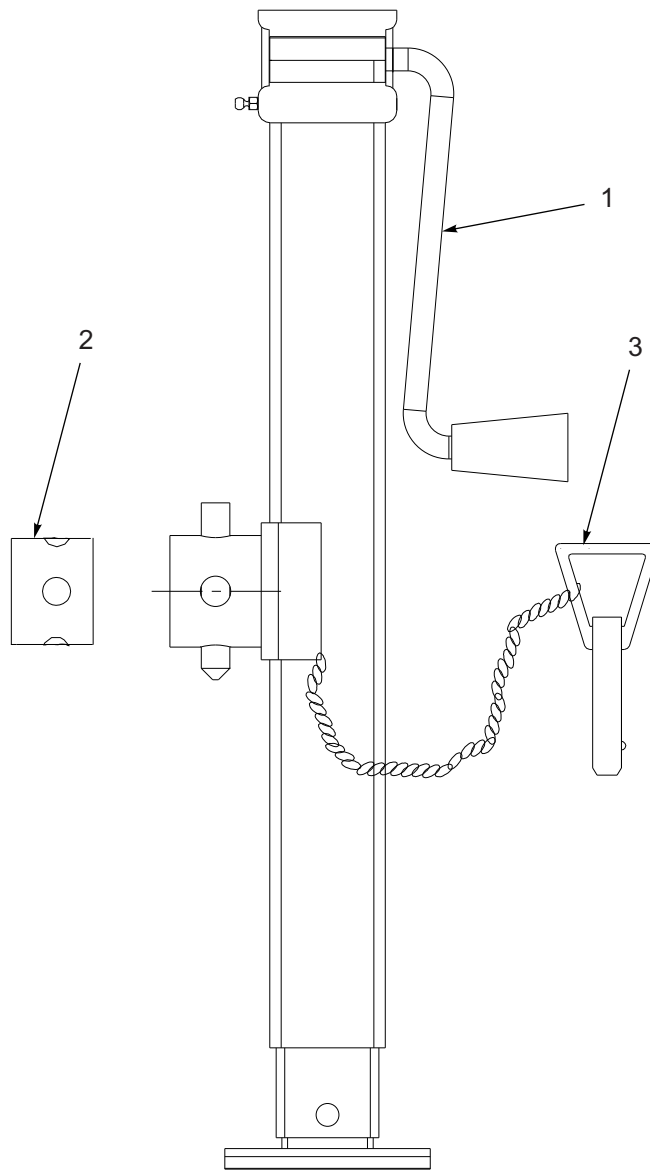


Figure 1-11: Radius Rod Assembly

RADIUS ROD ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
--	155541	RADIUS ROD ASSEMBLY, 1-3/4	
1	1-298-010001-1	FITTING, STR SHORT GREASE 1/4-28	2
2	103-0805	ROLL PIN, SLOTTED 1/4 X 1-3/4	2
3	155534	RH SCREW ASSEMBLY, RADIUS ROD	1
4	155536	LH SCREW ASSEMBLY, RADIUS ROD	1
5	155538	HITCH RADIUS ROD 1-3/4	1
6	155716	NUT, HEX JAM 1-3/4 - 5 GRB	1
7	155717	NUT, HEX JAM 1-3/4 - 5 LH GRB	1

**Figure 1-12: 7,000 Lb. Sidewind Jack Assembly****7,000 Lb. SIDEWIND JACK ASSEMBLY**

ITEM	PART NO.	DESCRIPTION	QTY.
--	140647	JACK, SIDEWIND 7000LB	
1	500171	HANDLE FOR JACK	1
2	141250	TUBE, RD, JACK MOUNT	1
3	142194	5/8" PIN	1

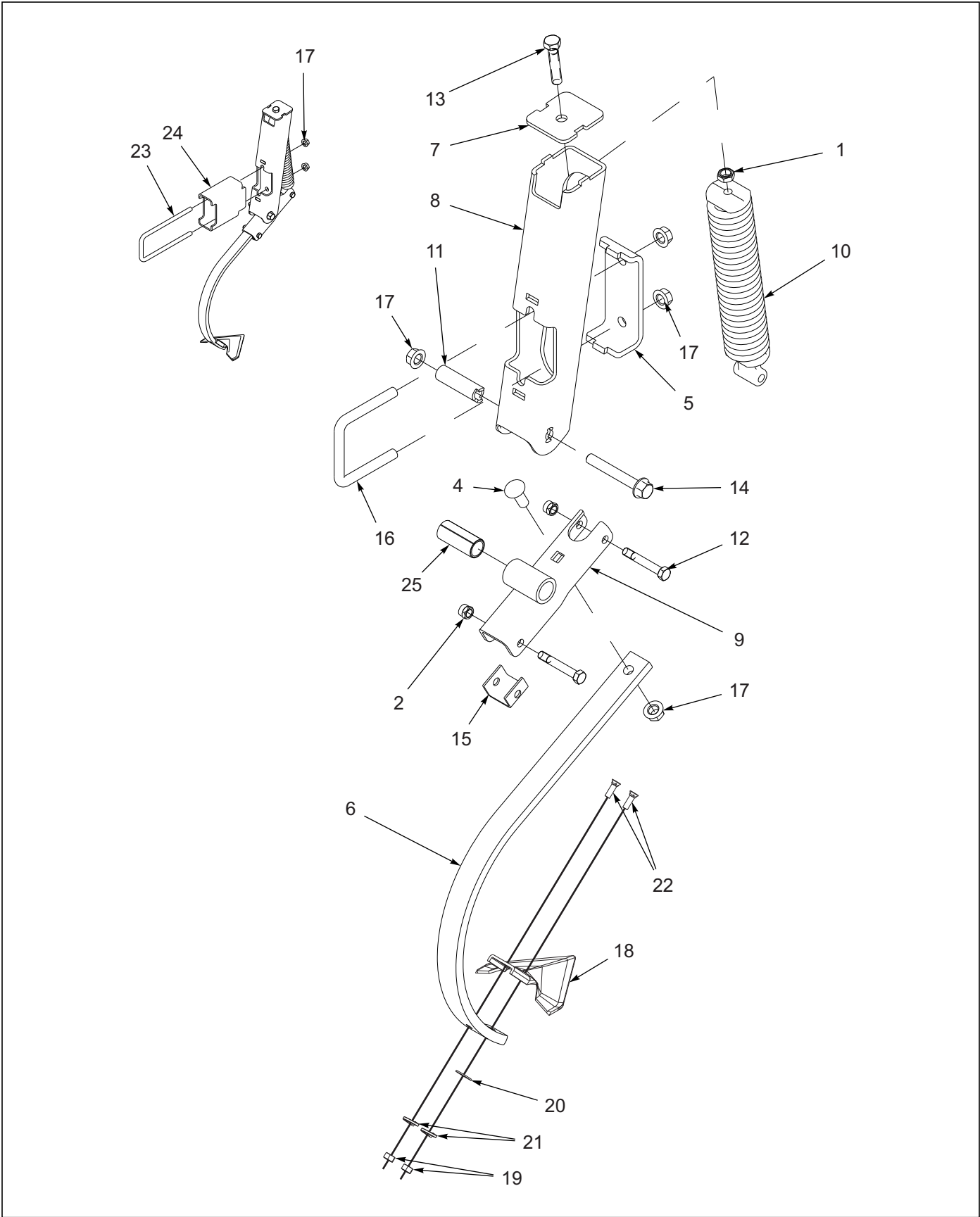


Figure 1-13: Spring Shank Assembly (Prior to 08/23/2012)

SPRING SHANK ASSEMBLY (PRIOR TO 08/23/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
--	162935	SHANK ASSEMBLY, SPRING (INCL. ITEMS 1 - 5, 7 - 17)	1
1	1-511-010001-07	NUT, HEX JAM 5/8-11	1
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	133662	SCREW, RD HEAD SQ NECK 5/8-11 X 1-3/4	1
5	162904	CLAMP, SHANK MOUNT	1
6	162905	SHANK, FLAT 5/8 X 1-3/4	1
7	162906	PLATE, SPRING	1
8	162908	SQUARE TUBE, SHANK MOUNT	1
9	162909	CLAMP, SHANK	1
10	162930	SPRING ASSEMBLY	1
11	164145	BUSHING, CLAMP	1
12	164146	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
13	164147	SCREW, HEX HEAD CAP 5/8-11 X 3, 2-1/2 THD GR5	1
14	164192	SCREW, FLANGE HEAD 5/8-11 X 4-1/2	1
15	166160	CLAMP, SHANK	1
16	2-102-010004	U-BOLT	1
17	29SFFL 5811	NUT, FLANGE HEAD LOCK 5/8-11	1
18	8-689-010006	SWEEP, 9"	
18	8-689-010007	SWEEP, 7"	
18	8-689-010008	SWEEP, 8"	
18	8-689-010009	SWEEP, 10"	
19	1-512-010007-08	NUT, HEX 7/16-14 GRB	2
20	1-861-010032-13	WASHER, FLAT 7/16W	1
21	1-861-010034-12	WASHER, SPLIT LOCK 7/16	2
22	7/16-14X1-3/4PB	PLOW BOLT 7/16-14 X 1-3/4 GR5	2
23	158841	U-BOLT 5/8 X 4-11/16 X 10-3/4	
24	164314	EXTENSION, SPRING SHANK 6-1/4	
25	164144	BUSHING, SPRING 1-1/4 X 2-15/16	

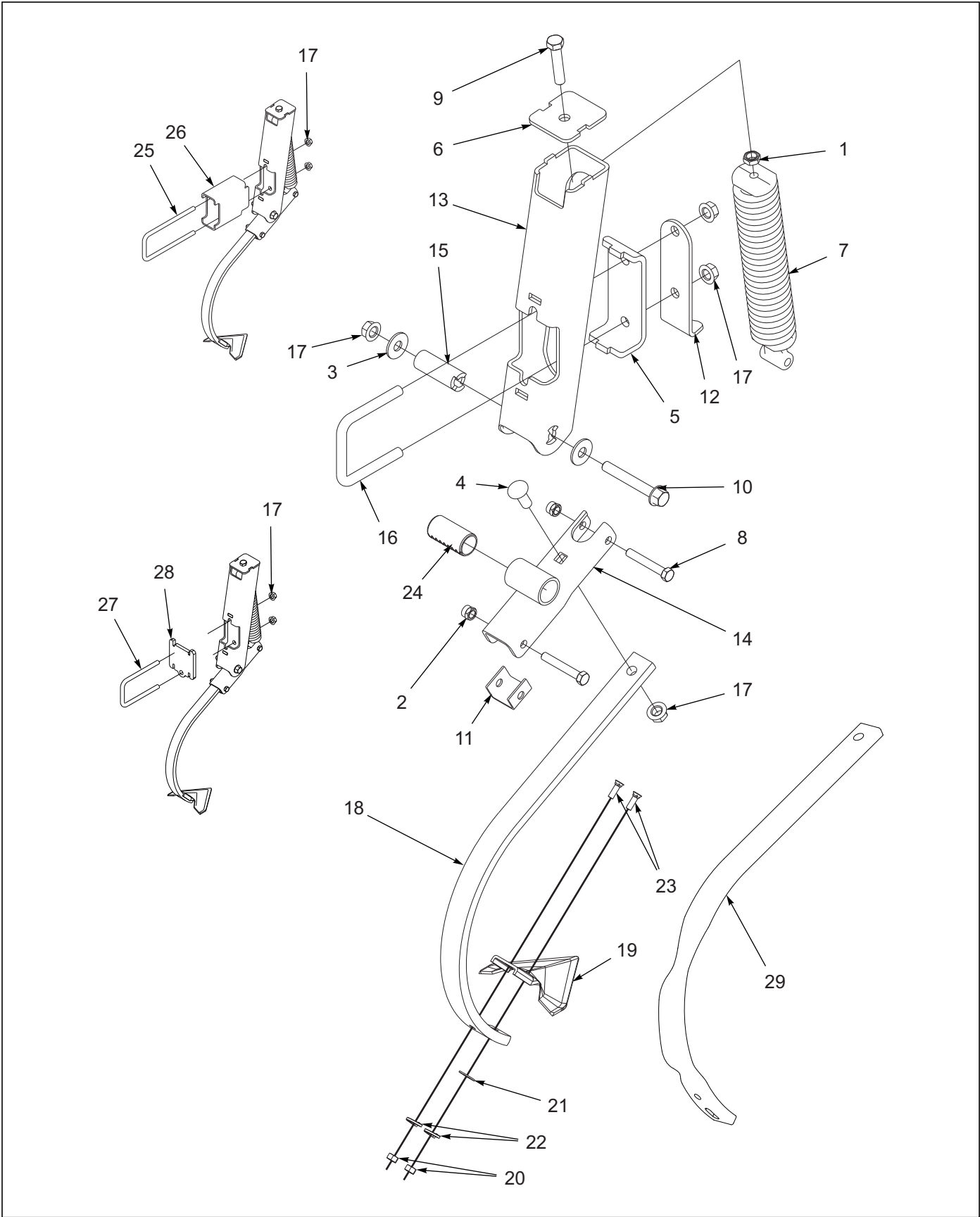


Figure 1-14: Spring Shank Assembly (After 08/23/2012)

SPRING SHANK ASSEMBLY (AFTER 08/23/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
--	172670	SHANK ASSEMBLY, SPRING (INCL. ITEMS 1-17)	1
1	1-511-010001-07	NUT, HEX JAM 5/8-11	1
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
3	1-861-010032-19	WASHER, FLAT 5/8W	2
4	133662	SCREW, RD HEAD SQ NECK 5/8-11 X 1-3/4	1
5	162904	CLAMP, SHANK MOUNT	1
6	162906	PLATE, SPRING	1
7	162930	SPRING ASSEMBLY	1
8	164146	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
9	164147	SCREW, HEX HEAD CAP 5/8-11 X 3, 2-1/2 THD GR5	1
10	164192	SCREW, FLANGE HEAD 5/8-11 X 4-1/2	1
11	166160	CLAMP, SHANK	1
12	172662	STOP, SPRING SHANK	1
13	172666	SQUARE TUBE, SHANK MOUNT	1
14	172667	CLAMP, SHANK (INCLUDES ITEM 24)	1
15	172671	BUSHING, CLAMP	1
16	2-102-010004	U-BOLT	1
17	29SFFL 5811	NUT, FLANGE HEAD LOCK 5/8-11	4
18	162905	SHANK, FLAT 5/8 X 1-3/4	1
19	8-689-010006	SWEEP, 9"	1
19	8-689-010007	SWEEP, 7"	1
19	8-689-010008	SWEEP, 8"	1
19	8-689-010009	SWEEP, 10"	1
19	108675	SWEEP, 1/4 X 8 ULTRAWING	1
19	108676	SWEEP, 1/4 X 9 ULTRAWING	1
20	1-512-010007-08	NUT, HEX 7/16-14 GRB	2
21	1-861-010032-13	WASHER, FLAT 7/16W	1
22	1-861-010034-12	WASHER, SPLIT LOCK 7/16	2
23	7/16-14X1-3/4PB	PLOW BOLT 7/16-14 X 1-3/4 GR5	2
24	172672	BUSHING, SPRING 1-1/2 X 1-1/4X 2-15/16	1
25	158841	U-BOLT 5/8 X 4-11/16 X 10-3/4	1
26	164314	EXTENSION, SPRING SHANK 6-1/4	1
27	6-102-010009	U-BOLT RIGID GA WHEEL	4
28	194616	EXTENSION SPRING SHANK	4
29	185928	SHANK, 5/8 X 1-3/4 EDGE BENT	1

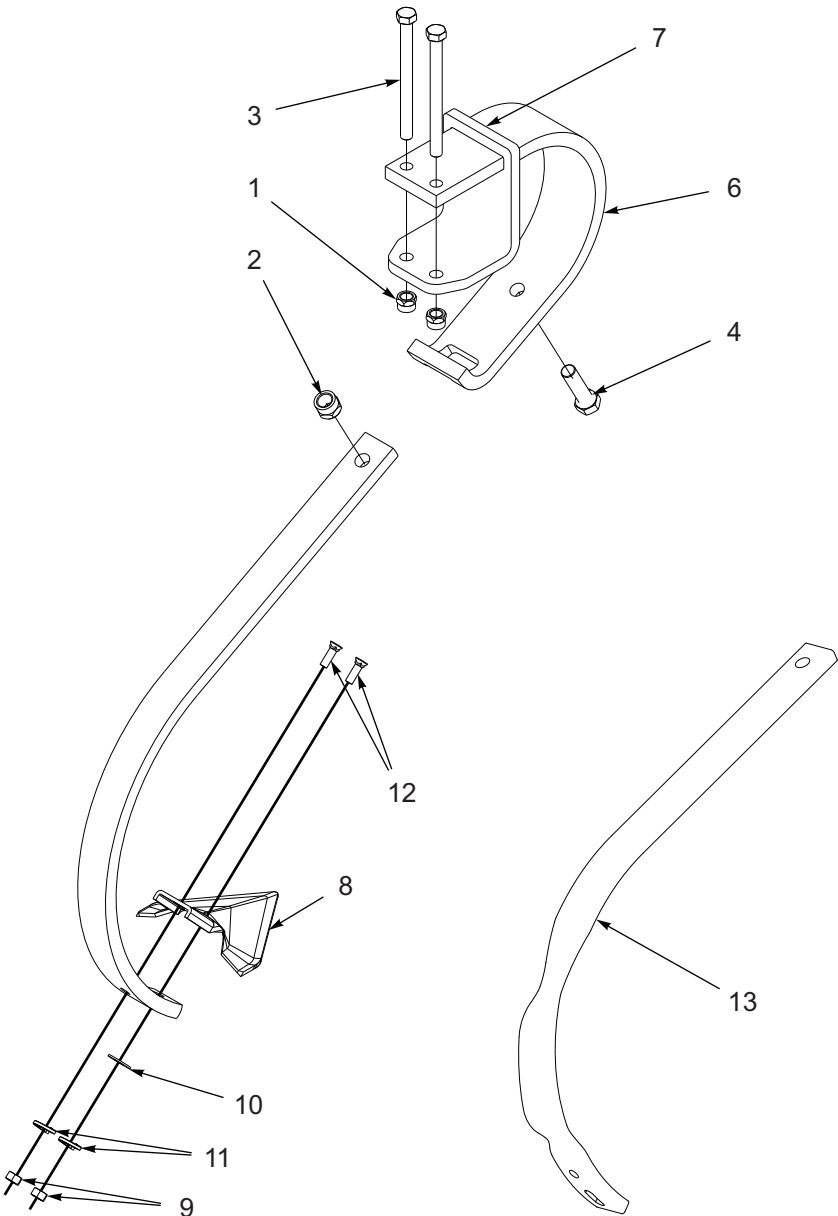
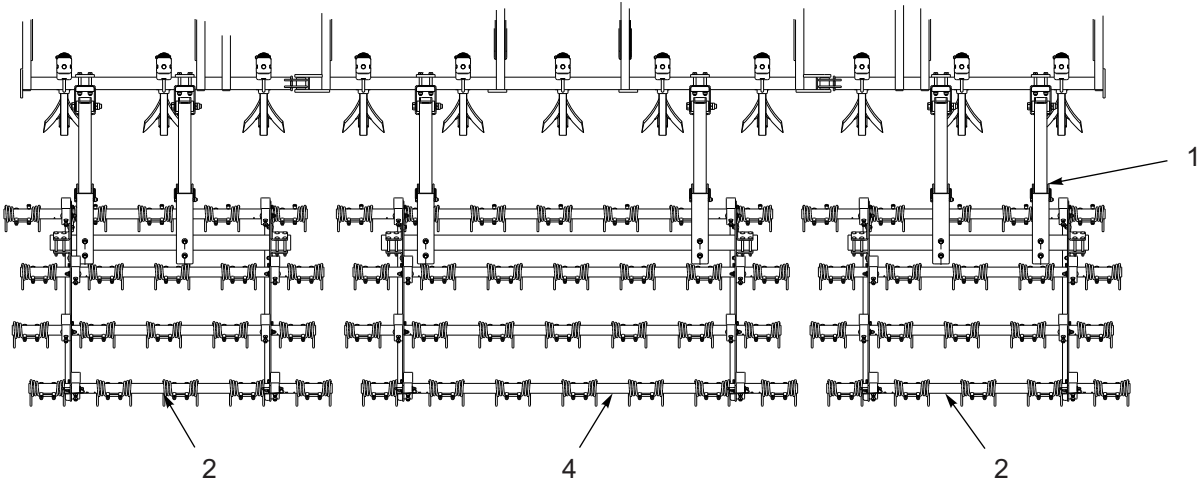


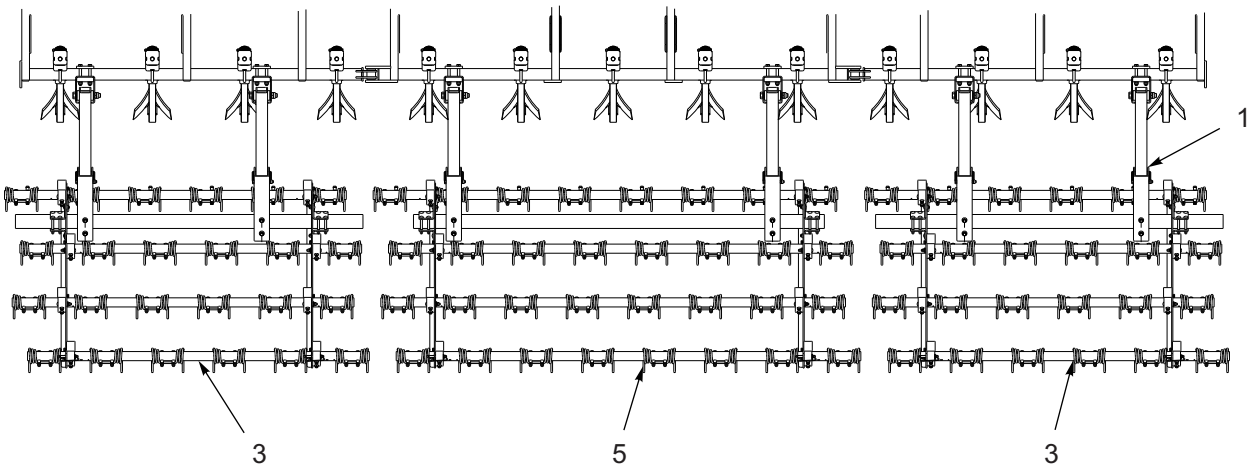
Figure 1-15: S-Tine Shank Assembly

S-TINE SHANK ASSEMBLY

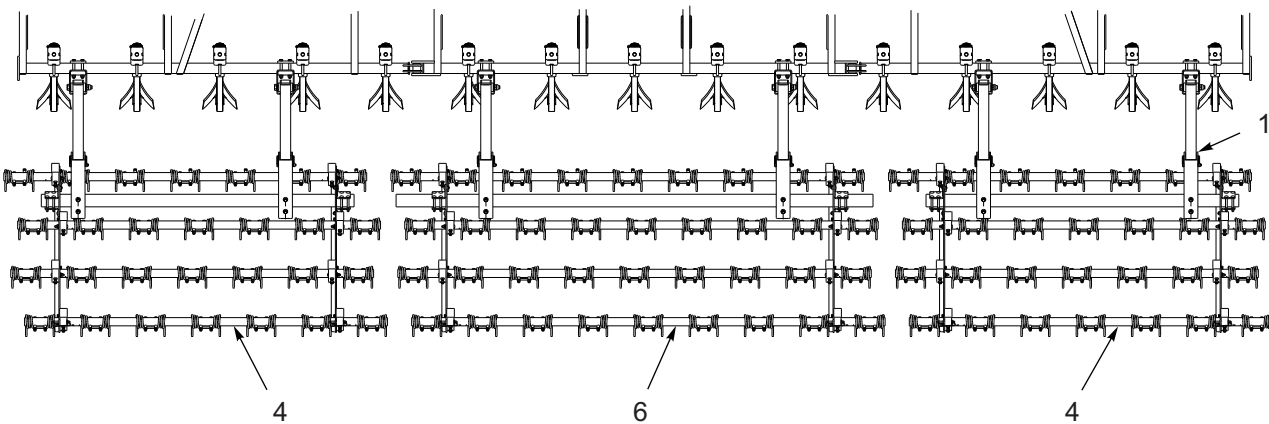
ITEM	PART NO.	DESCRIPTION	QTY.
--	166200	SHANK ASSEMBLY, S-TINE (INCL. ITEMS 1 - 4, 6 - 7)	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
2	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	1
3	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	2
4	1-654-010059-06	SCREW, HEX HEAD CAP 5/8-11 X 2-1/4 GR5	1
5	162905	SHANK, FLAT 5/8 X 1-3/4	1
6	166199	SPRING CLAMP, S-TINE	1
7	166201	CLAMP, S-TINE (WIDE)	1
7	181618	CLAMP, S-TINE (NARROW)	1
8	8-689-010006	SWEEP, 9"	
8	8-689-010007	SWEEP, 7"	
8	8-689-010008	SWEEP, 8"	
8	8-689-010009	SWEEP, 10"	
8	108675	SWEEP 1/4X8 ULTRAWING	
8	108676	SWEEP 1/4X9 ULTRAWING	
9	1-512-010007-08	NUT, HEX 7/16-14 GRB	2
10	1-861-010032-13	WASHER, FLAT 7/16W	1
11	1-861-010034-12	WASHER, SPLIT LOCK 7/16	2
12	7/16-14X1-3/4PB	PLOW BOLT 7/16-14 X 1-3/4 GR5	2
13	185928	SHANK, 5/8 X 1-3/4 EDGE BENT	1



MODEL 9630-20 (P/N 166301)

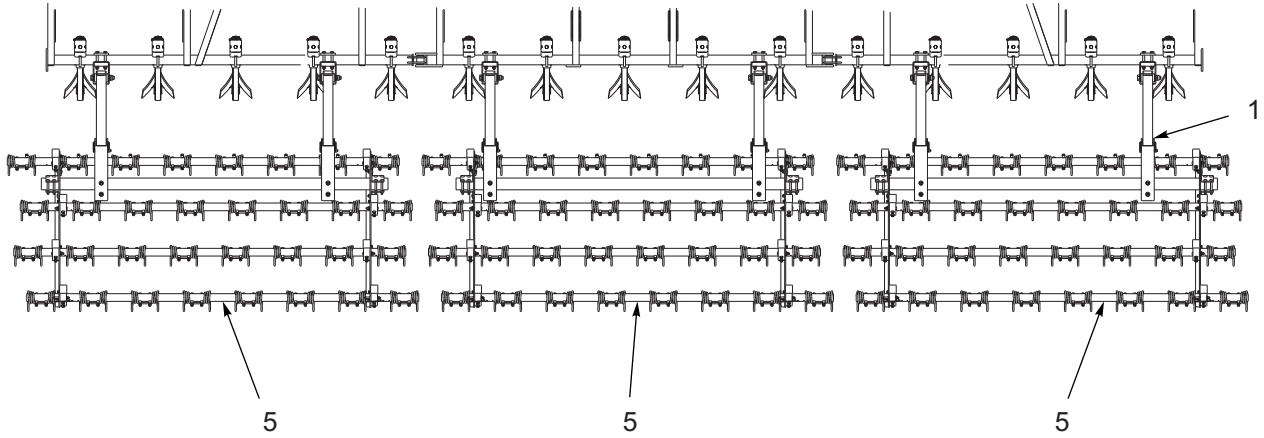


MODEL 9630-24 (P/N 166302)

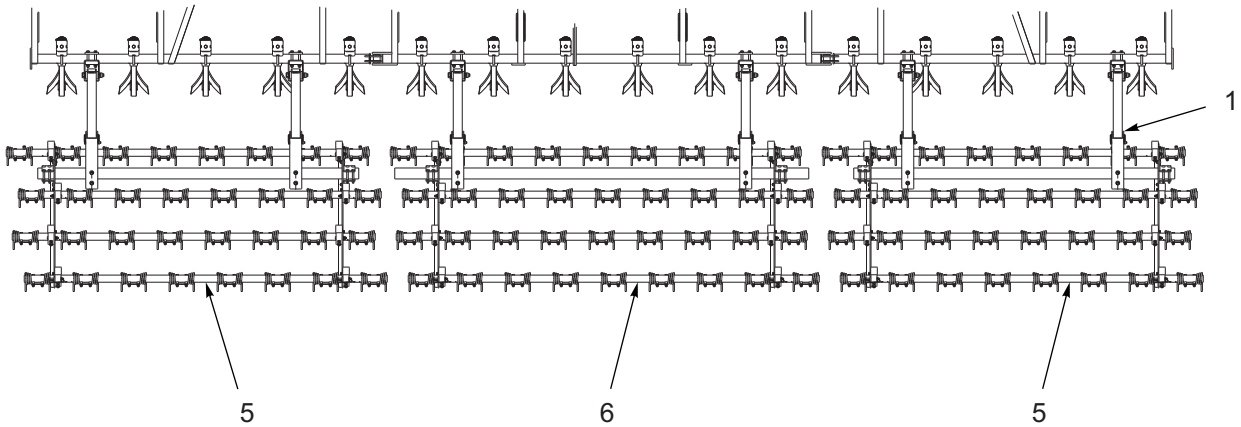


MODEL 9630-28 (P/N 166303)

Figure 1-16: 4 Row Coil Tine Harrow Layout (1 of 3)

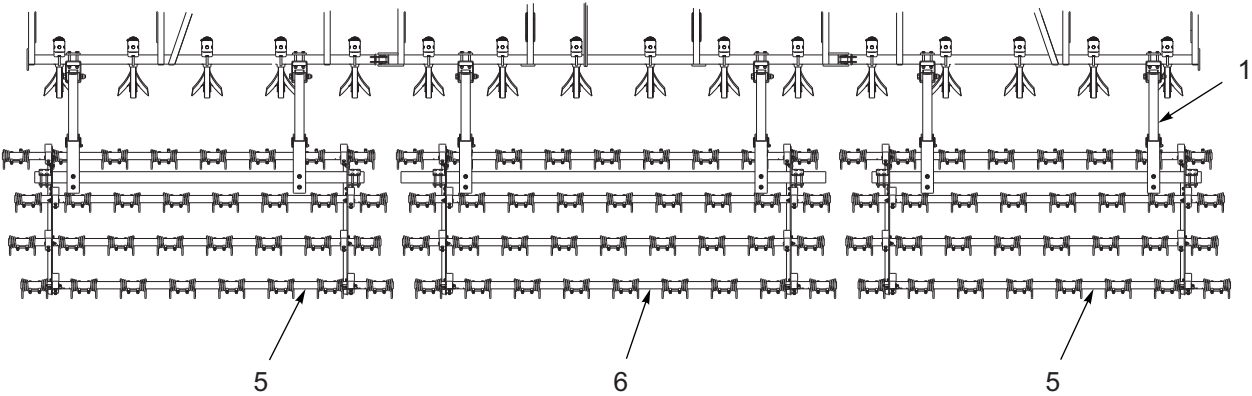


MODEL 9630-30NC (P/N 174373)

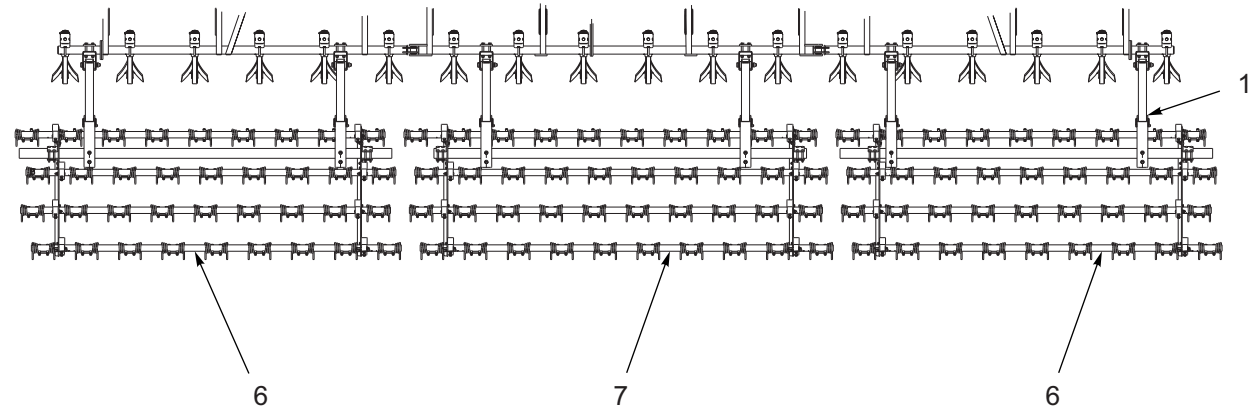


MODEL 9630-30 (P/N 166304)

Figure 1-17: 4 Row Coil Tine Harrow Layout (2 of 3)



MODEL 9630-32 (P/N 174386)



MODEL 9630-34 (P/N 166305)

Figure 1-18: 4 Row Coil Tine Harrow Layout (3 of 3)

4 ROW COIL TINE HARROW LAYOUT

ITEM	PART NO.	DESCRIPTION	QTY.							
--	166301	4 ROW COIL TINE HARROW ASSEMBLY (9630-20)	*							
--	166302	4 ROW COIL TINE HARROW ASSEMBLY (9630-24)	*							
--	166303	4 ROW COIL TINE HARROW ASSEMBLY (9630-28)	*							
--	174373	4 ROW COIL TINE HARROW ASSEMBLY (9630-30NC)	*							
--	166304	4 ROW COIL TINE HARROW ASSEMBLY (9630-30)	*							
--	174386	4 ROW COIL TINE HARROW ASSEMBLY (9630-32)	*							
--	166305	4 ROW COIL TINE HARROW ASSEMBLY (9630-34)	*							
1	164327	HARROW ARM ASSEMBLY, COIL TINE (SEE PAGE 1-33)	6	6	6	6	6	6	6	6
2	164339	HARROW ASSEMBLY, 5 TINE 8 IN (SEE PAGE 1-35)	2	--	--	--	--	--	--	--
3	164340	HARROW ASSEMBLY, 6 TINE 8 IN (SEE PAGE 1-35)	--	2	--	--	--	--	--	--
4	164341	HARROW ASSEMBLY, 7 TINE 8 IN (SEE PAGE 1-35)	1	--	2	--	--	--	--	--
5	164342	HARROW ASSEMBLY, 8 TINE 8 IN (SEE PAGE 1-35)	--	1	--	3	2	2	--	--
6	164343	HARROW ASSEMBLY, 9 TINE 8 IN (SEE PAGE 1-35)	--	--	1	--	1	1	2	--
7	164344	HARROW ASSEMBLY, 10 TINE 8 IN (SEE PAGE 1-35)	--	--	--	--	--	--	--	1

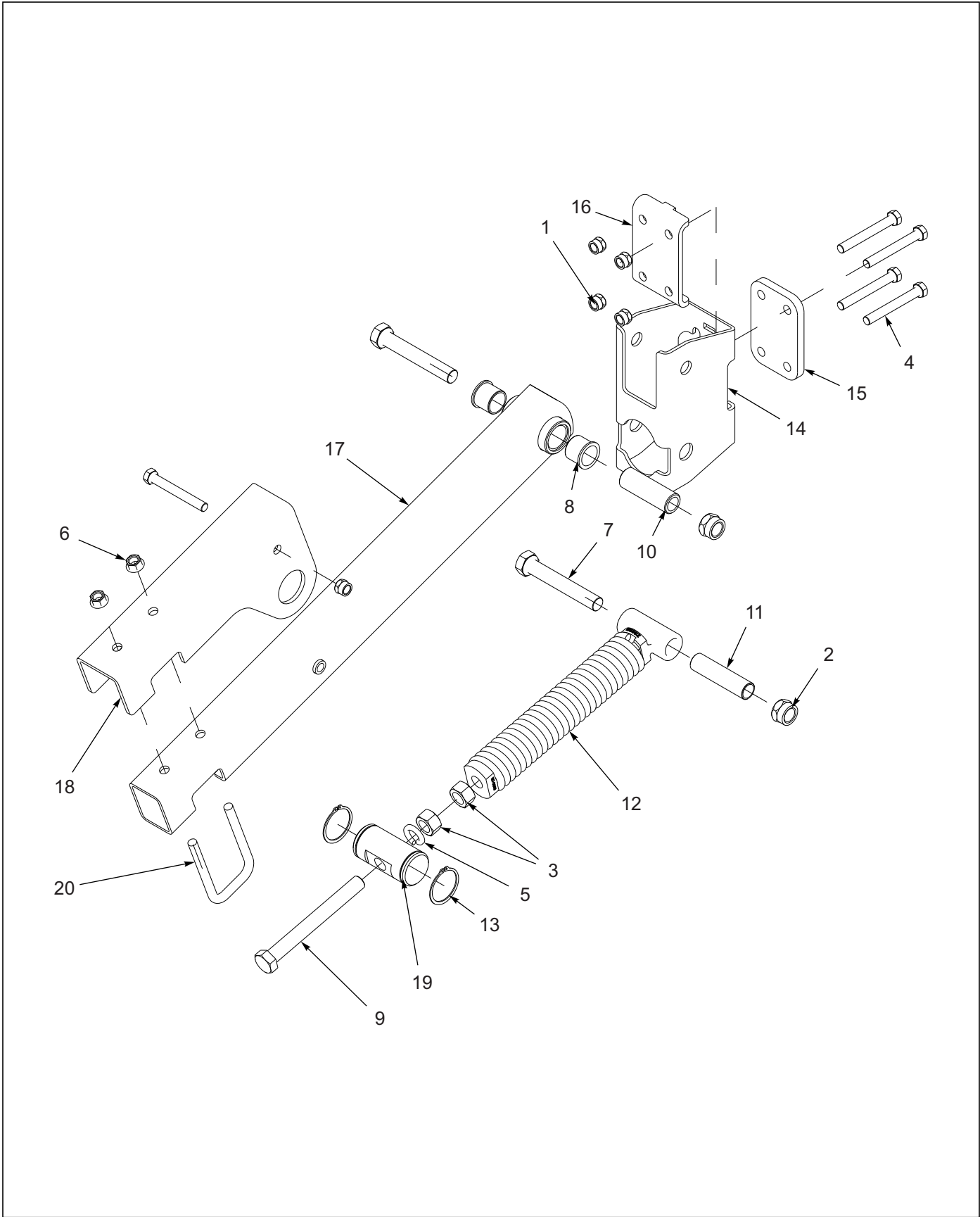


Figure 1-19: 4 Row Coil Tine Harrow Arm Assembly

4 ROW COIL TINE HARROW ARM ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
--	164327	HARROW ARM ASSEMBLY, COIL TINE	
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	5
2	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GRB	2
4	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	1
5	1-861-010034-21	WASHER, SPLIT LOCK 1"	1
6	100827	NUT, FLANGE HEAD SERRATED 5/8-11	2
7	100829	SCREW, HEX HEAD CAP 1-8 X 6-1/2 GR5	2
8	140599	BEARING, FLANGE 1-1/2	2
9	152210	BOLT, SPRING ADJUST 1 X 9	1
10	155002	BUSHING, PIVOT - 1-1/2	1
11	155962	BUSHING, PIVOT - 1-1/4	1
12	155963	SPRING ASSEMBLY, HEAVY - 17"	1
13	158896	SNAP RING, 2-1/2 SHAFT	2
14	164328	MOUNT, HARROW ARM	1
15	164329	MOUNTING PLATE, HARROW	1
16	164330	CLAMP, HARROW MOUNT	1
17	164331	ARM, TINE HARROW	1
18	164335	MOUNT, HARROW ARM SPRING	1
19	164336	PIN, ADJUSTMENT W/SNAP RING	1
20	8-102-010043	U-BOLT, SPRING CLAMP	1

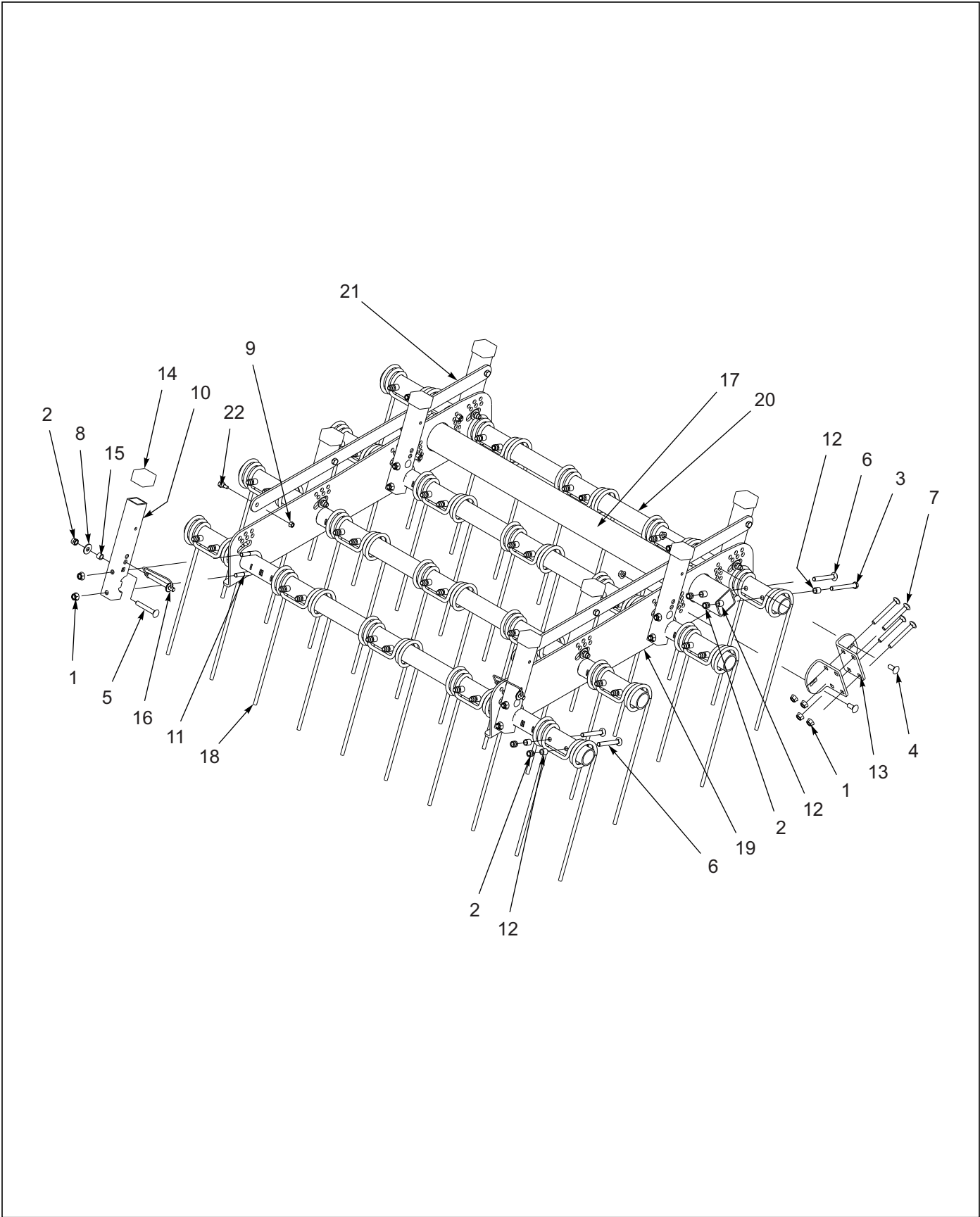


Figure 1-20: 4 Row Coil Tine Harrow Assembly

4 ROW COIL TINE HARROW ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.					
--	164339	HARROW ASSEMBLY, 5 TINE 8 IN	*					
--	164340	HARROW ASSEMBLY, 6 TINE 8 IN		*				
--	164341	HARROW ASSEMBLY, 7 TINE 8 IN			*			
--	164342	HARROW ASSEMBLY, 8 TINE 8 IN				*		
--	166343	HARROW ASSEMBLY, 9 TINE 8 IN					*	
--	164344	HARROW ASSEMBLY, 10 TINE 8 IN						*
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	28	28	28	28	28	28
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	48	56	64	72	80	96
3	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	5	6	7	8	9	10
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	4	4	4	4	4	4
5	1-654-010070-11	SCREW, RD HEAD SQ NECK 1/2-13 X 3-1/2	8	8	8	8	8	8
6	1-654-010070-13	SCREW, RD HEAD SQ NECK 1/2-13 X 4	35	42	49	56	63	70
7	1-654-010070-14	SCREW, RD HEAD SQ NECK 1/2-13 X 4-1/2	8	8	8	8	8	8
8	1-861-010032-15	WASHER, FLAT 1/2W	8	8	8	8	8	8
9	107470	NUT, HEX FLANGE SPIRALOCK 3/8-16 GR8	8	8	8	8	8	8
10	154994	TUBE, ANGLE ADJUST	8	8	8	8	8	8
11	154995	U-BOLT, 1/2	8	8	8	8	8	8
12	154997	BUSHING, TINE RETAINER	45	54	63	72	81	90
13	154998	PLATE, ANGLE ADJUSTMENT	4	4	4	4	4	4
14	155927	CAP, TUBE 1.95 X 1.5 BLACK	8	8	8	8	8	8
15	155956	BUSHING, ANGLE ADJUSTMENT	8	8	8	8	8	8
16	155971	PIN, HARROW ADJUSTMENT	2	2	2	2	2	2
17	156777	TUBE, RIDE BAR 57.875" (164339)	1	--	--	--	--	--
17	156778	TUBE, RIDE BAR 90.5" (164340 & 164341)	--	1	1	--	--	--
17	155005	TUBE, SQ 3 X 3/16 X 107" (164342)	--	--	--	1	--	--
17	156779	TUBE, RIDE BAR 138" (164343 & 164344)	--	--	--	--	1	1
18	164315	TINE, HARROW 7/16 X 18	20	24	28	32	36	40
19	164316	PLATE, GANG BAR 4 ROW	2	2	2	2	2	2
20	164318	GANG BAR, 5 TINE 8 IN 73" (164339)	4	--	--	--	--	--
20	164319	GANG BAR, 6 TINE 8 IN 89" (164340)	--	4	--	--	--	--
20	164320	GANG BAR, 7 TINE 8 IN 105" (164341)	--	--	4	--	--	--
20	164321	GANG BAR, 8 TINE 8 IN 121" (164342)	--	--	--	4	--	--
20	164322	GANG BAR, 9 TINE 8 IN 137" (164343)	--	--	--	--	4	--
20	164323	GANG BAR, 10 TINE 8 IN 153" (164344)	--	--	--	--	--	4
21	164337	LINK, TINE ADJUSTMENT	2	2	2	2	2	2
22	2-095-010017	BOLT, SHOULDER HEX HEAD	8	8	8	8	8	8

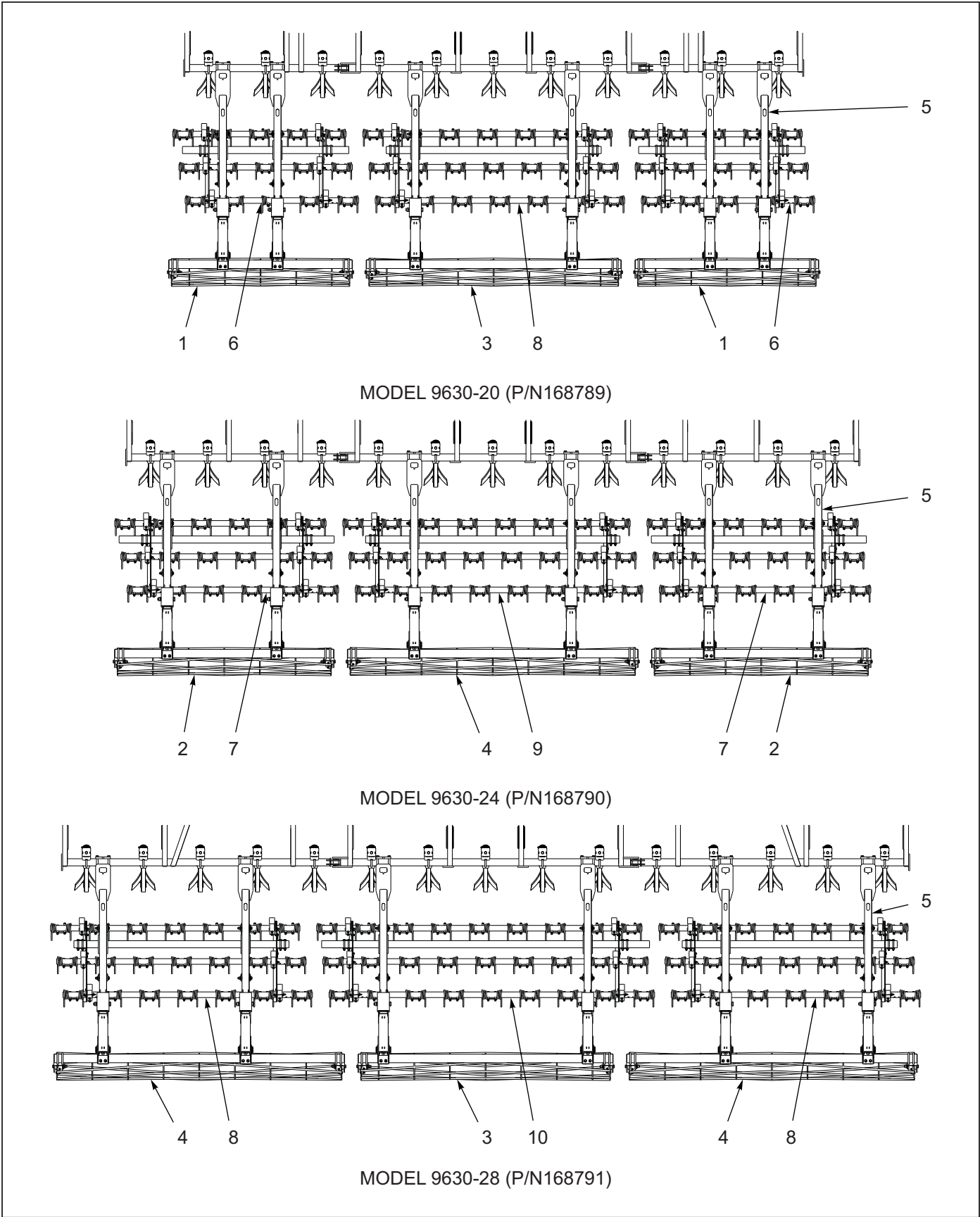
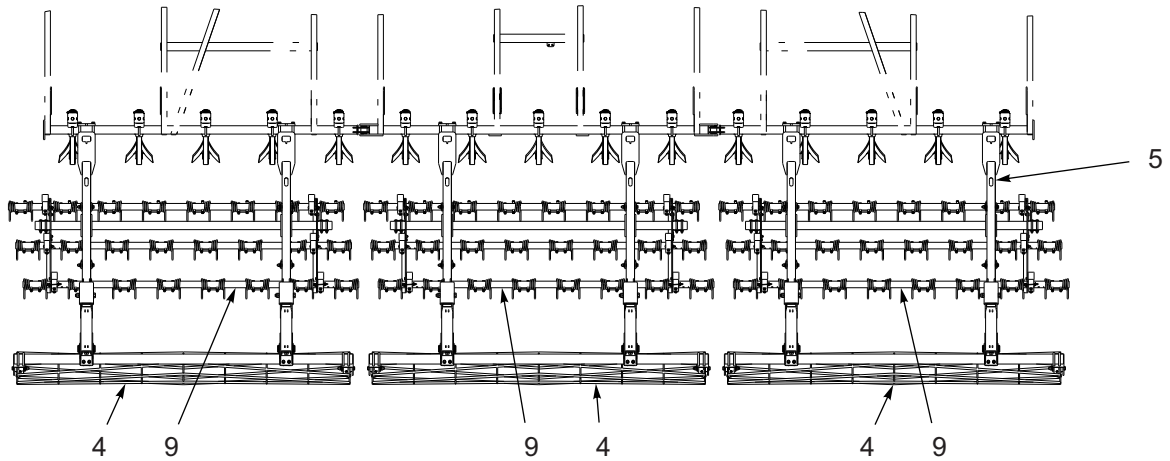
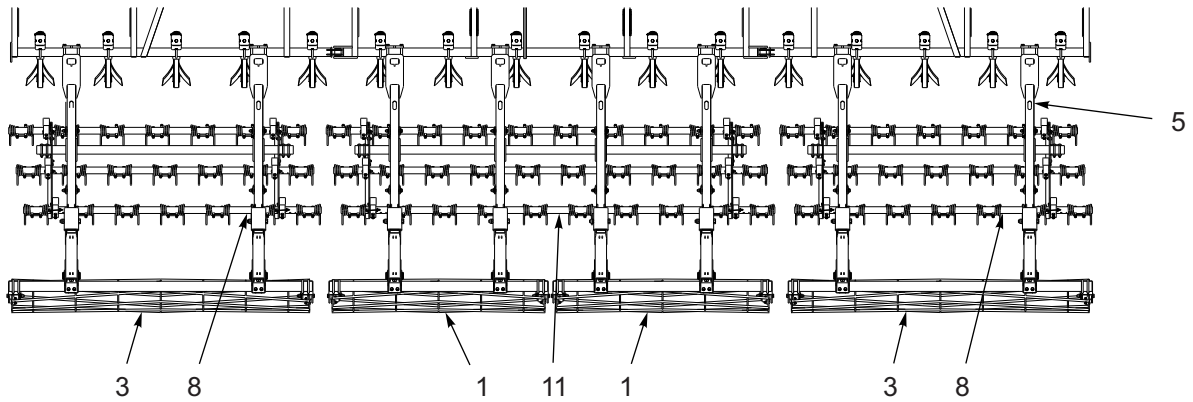


Figure 1-21: 3 Row Coil Tine and Reel Harrow Assembly (1 of 3)

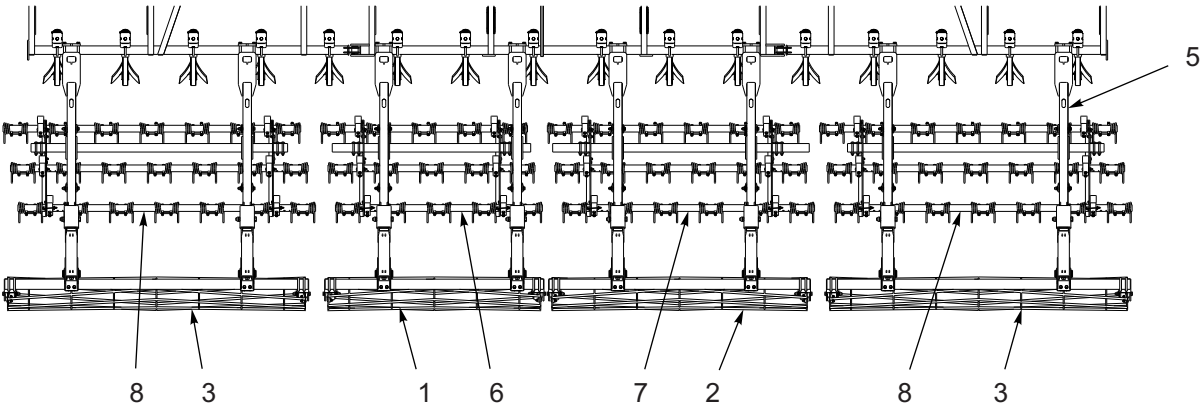


MODEL 9630-30NC (P/N174376)

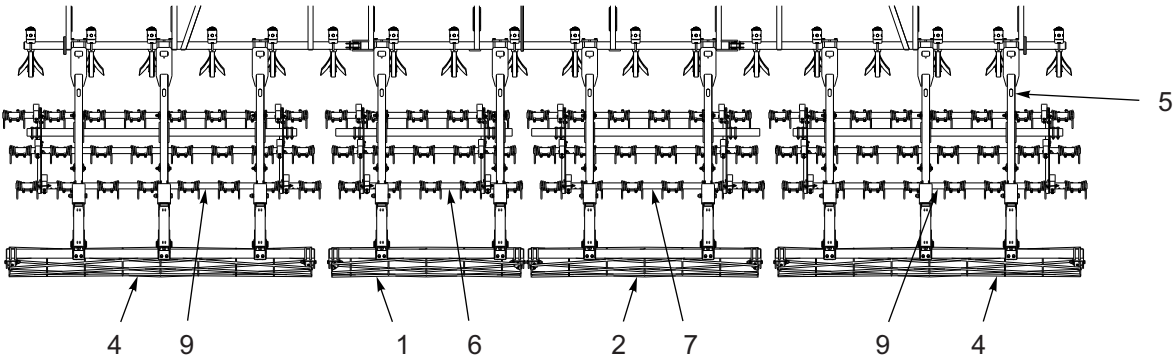


MODEL 9630-30 (P/N168792)

Figure 1-22: 3 Row Coil Tine and Reel Harrow Assembly (2 of 3)



MODEL 9630-32 (P/N174389)



MODEL 9630-34 (P/N168793)

Figure 1-23: 3 Row Coil Tine and Reel Harrow Assembly (3 of 3)

3 ROW COIL TINE AND REEL HARROW ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.							
--	168789	3 ROW TINE/REEL ASSY 9630-20	*							
--	168790	3 ROW TINE/REEL ASSY 9630-24		*						
--	168791	3 ROW TINE/REEL ASSY 9630-28			*					
--	174376	3 ROW TINE/REEL ASSY 9630-30NC				*				
--	168792	3 ROW TINE/REEL ASSY 9630-30					*			
--	174389	3 ROW TINE/REEL ASSY 9630-32						*		
--	168793	3 ROW TINE/REEL ASSY 9630-34							*	
1	168728	REEL ASSEMBLY 12 DIA X 75 (SEE PAGE 1-55)	2	--	--	--	2	1	1	
2	168729	REEL ASSEMBLY 12 DIA X 90 (SEE PAGE 1-55)	--	2	--	--	--	1	1	
3	168730	REEL ASSEMBLY 12 DIA X 105 (SEE PAGE 1-55)	1	--	1	--	2	2	--	
4	168731	REEL ASSEMBLY 12 DIA X 120 (SEE PAGE 1-55)	--	1	2	3	--	--	2	
5	203098	HARROW ARM ASSY, TINE & REEL (SEE PAGE 1-41)	6	6	6	6	8	8	8	
6	168799	HARROW ASSEMBLY, 5 TINE 3 ROW (SEE PAGE 1-43)	2	--	--	--	--	1	1	
7	168800	HARROW ASSEMBLY, 6 TINE 3 ROW (SEE PAGE 1-43)	--	2	--	--	--	1	1	
8	168801	HARROW ASSEMBLY, 7 TINE 3 ROW (SEE PAGE 1-43)	1	--	2	--	2	2	--	
9	168802	HARROW ASSEMBLY, 8 TINE 3 ROW (SEE PAGE 1-43)	--	1	--	3	--	--	2	
10	168803	HARROW ASSEMBLY, 9 TINE 3 ROW (SEE PAGE 1-43)	--	--	1	--	--	--	--	
11	168804	HARROW ASSEMBLY, 10 TINE 3 ROW (SEE PAGE 1-43)	--	--	--	--	1	--	--	

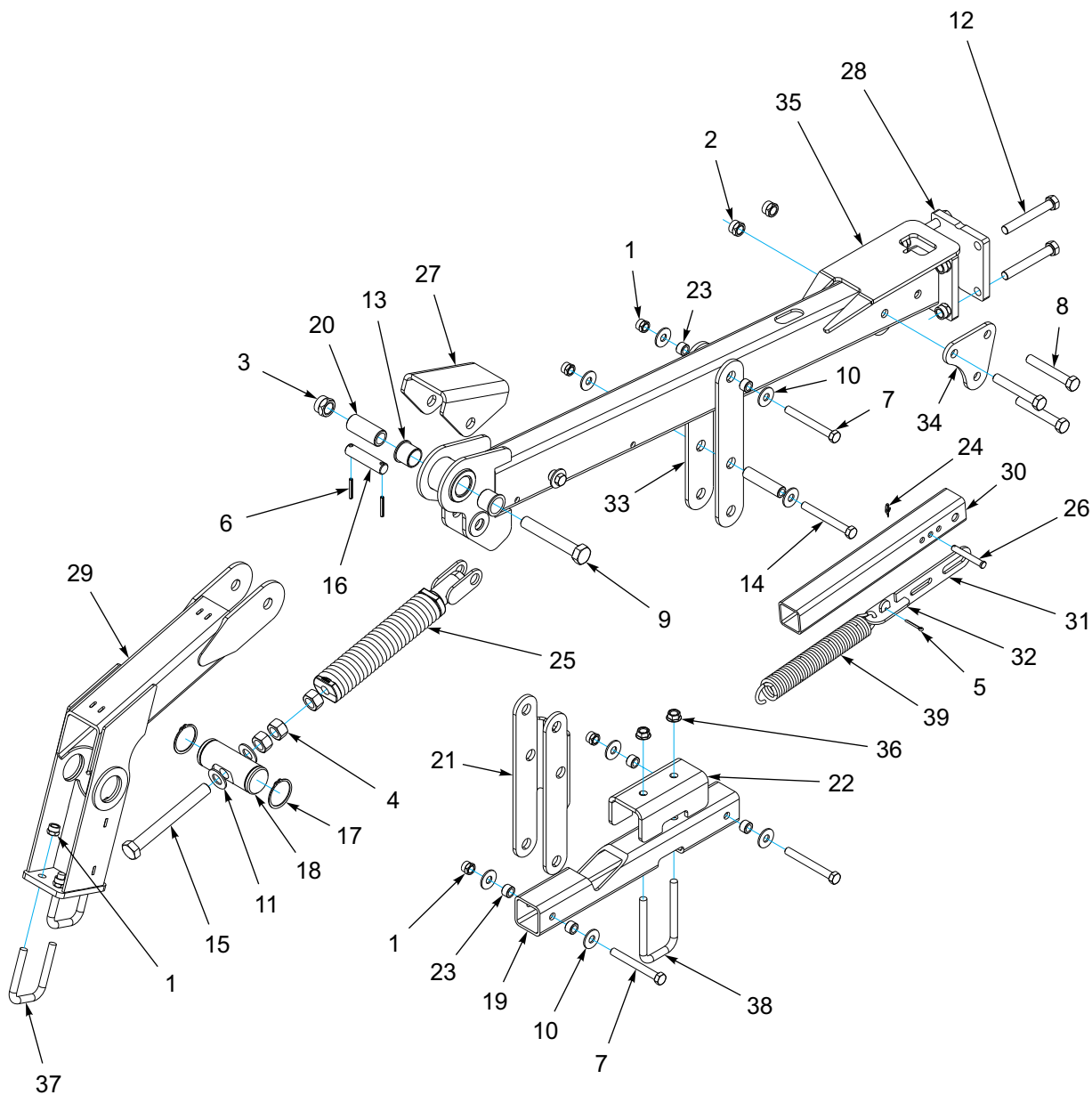


Figure 1-24: Arm Assembly - Harrow Tine & Reel

ARM ASSEMBLY - HARROW TINE & REEL

ITEM	PART NO.	DESCRIPTION	QTY.
--	203098	ARM ASSY TINE/REEL HARROW	
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	9
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	7
3	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	1
4	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	3
5	1-557-010362-51	PIN, COTTER 3/16X1-1/2	1
6	1-647-010004221	PIN,SPRING 1/4X2 SLOTTED	2
7	1-654-010059-16	SCREW,HEX CAP,5/8-11UNCX5.50	5
8	1-654-010061-15	SCREW,HX CP 3/4-10UNCX5 GR5	3
9	1-654-010125-18	SCREW HEX CAP,1-8UNCX6-1/2GR8	1
10	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	10
11	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
12	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	4
13	140599	BEARING, FLANGE 1-1/2	2
14	143971	BUSHING, OPENER CLAMP	1
15	152210	BOLT, ADJ, 1 X 9	1
16	156785	PIN 1 X 4-1/4	1
17	158896	SNAP RING, 2-1/2 SHAFT	2
18	158897	PIN, ADJUSTMENT	1
19	166338	MOUNT, TINE BAR	1
20	168739	BUSHING PIVOT 1-1/2 X 3-7/16	1
21	168752	MOUNT, BAR	1
22	168753	CONNECTOR, HARROW LINK	1
23	168762	BUSHING, 1 X .640 X 5/8	8
24	172673	WRAP AROUND LOCKING COTTER	1
25	172677	SPRING ASSY, W/ANCHOR	1
26	176625	PIN, CLEVIS 1/2 X 3-1/2	1
27	191459	STOP, HARROW ARM	1
28	192807	MOUNTING PLATE, HARROW	1
29	199359	ARM WLDMT REEL	1
30	199376	TUBE, HARROW SPRING	1
31	199377	STOP, HARROW SPRING	1
32	199378	HOOK SPRING	1
33	199389	MOUNT TINE BAR	2
34	199390	BRACKET, SPRING HOOK	2
35	199392	ARM WLDMT HARROW	1
36	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	2
37	8-102-010012	U BOLT	2
38	8-102-010043	U-BOLT, SPING CLAMP	1
39	8-720-010011	HARROW SPRING	1

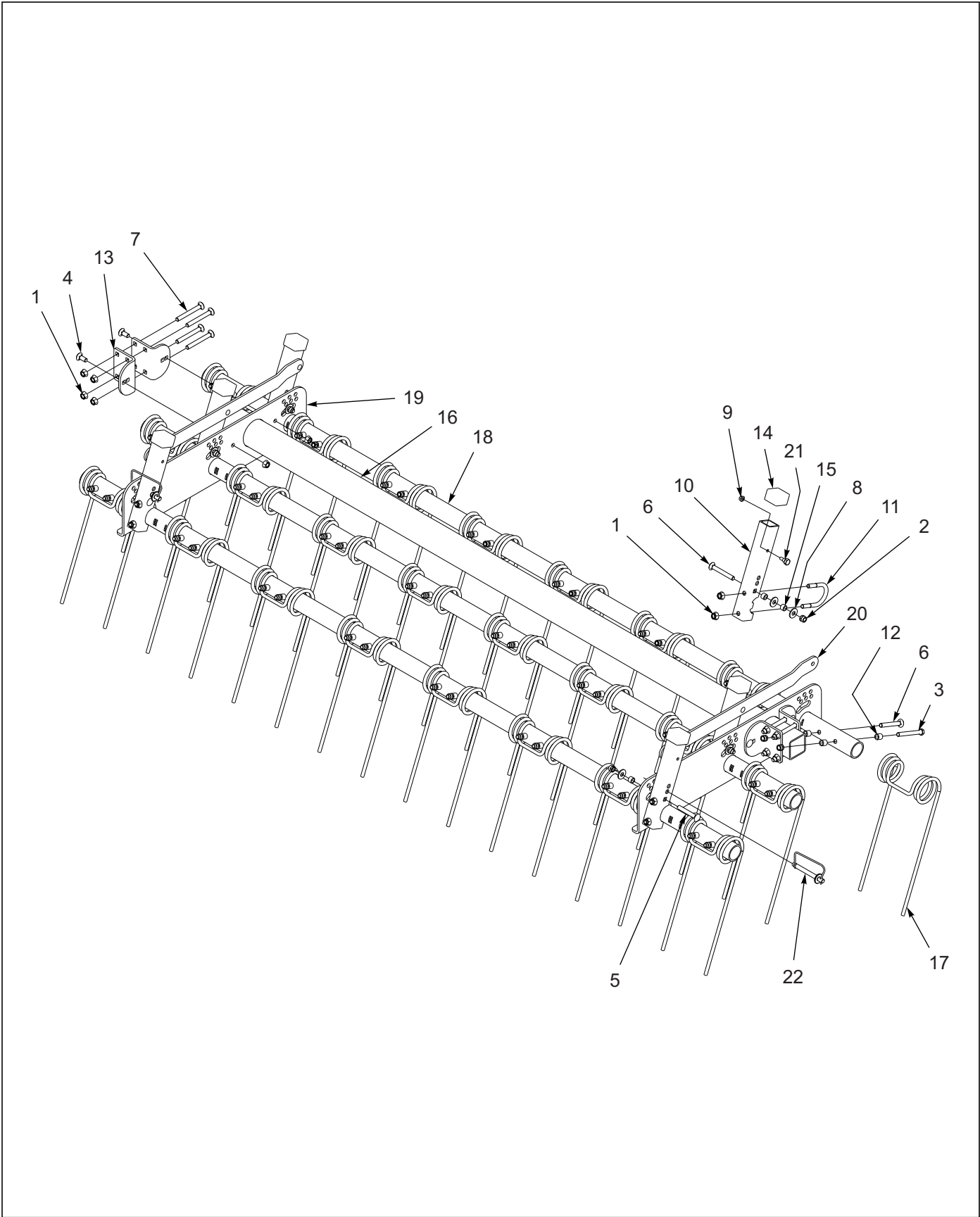
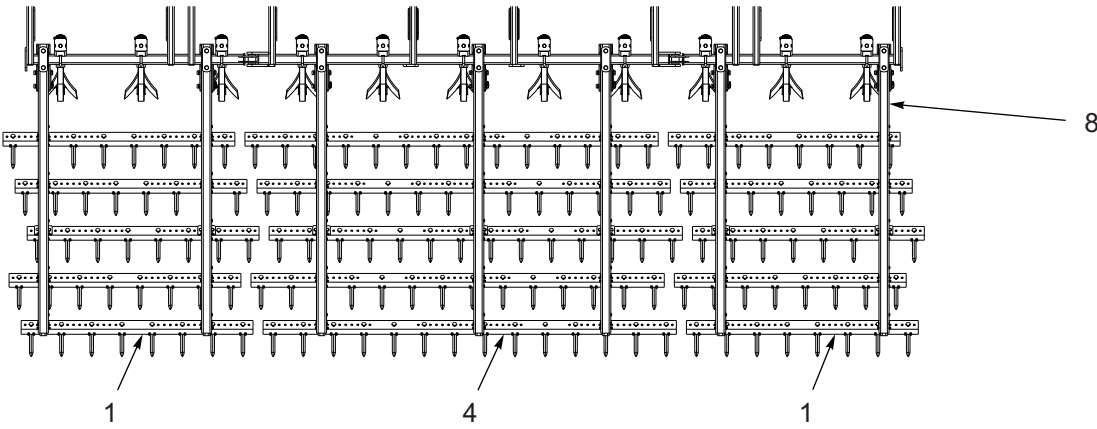


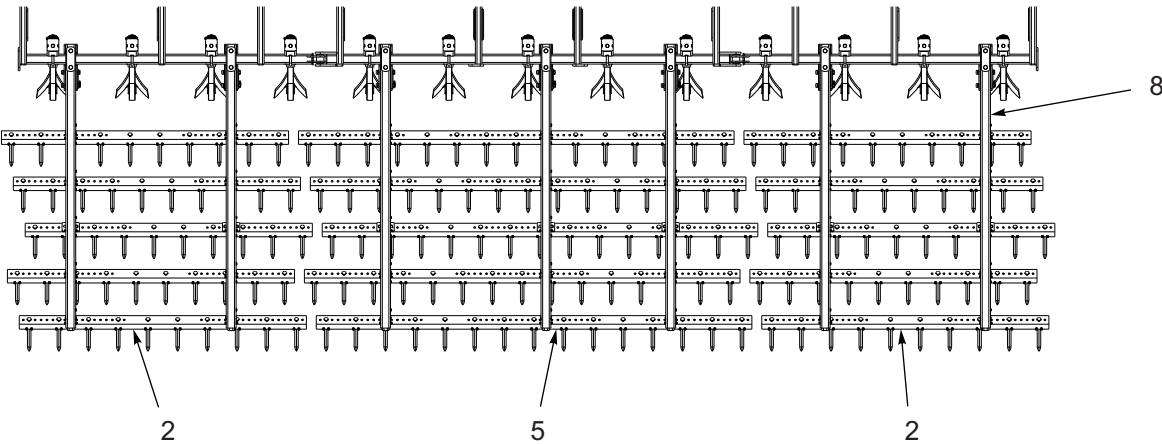
Figure 1-25: 3 Row Coil Tine Harrow Assembly

3 ROW COIL TINE HARROW ASSEMBLY

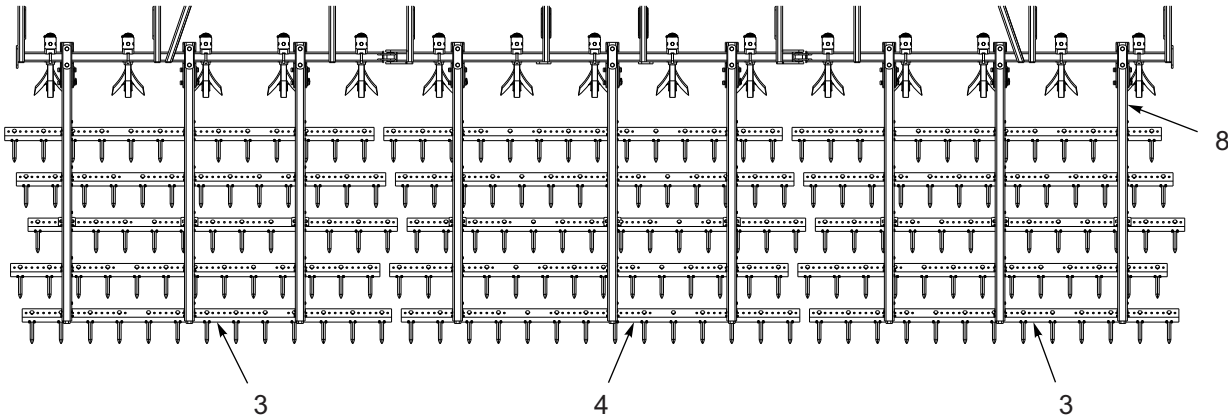
ITEM	PART NO.	DESCRIPTION	QTY.					
--	168799	HARROW ASSEMBLY, 5 TINE 3 ROW	*					
--	168800	HARROW ASSEMBLY, 6 TINE 3 ROW	*					
--	168801	HARROW ASSEMBLY, 7 TINE 3 ROW	*					
--	168802	HARROW ASSEMBLY, 8 TINE 3 ROW	*					
--	168803	HARROW ASSEMBLY, 9 TINE 3 ROW	*					
--	168804	HARROW ASSEMBLY, 10 TINE 3 ROW	*					
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	24	24	24	24	24	24
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	36	42	48	54	60	66
3	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	5	6	7	8	9	10
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	4	4	4	4	4	4
5	1-654-010070-11	SCREW, RD HEAD SQ NECK 1/2-13 X 3-1/2	4	4	4	4	4	4
6	1-654-010070-13	SCREW, RD HEAD SQ NECK 1/2-13 X 4	27	32	37	42	47	52
7	1-654-010070-14	SCREW, RD HEAD SQ NECK 1/2-13 X 4-1/2	8	8	8	8	8	8
8	1-861-010032-15	WASHER, FLAT 1/2 W	8	8	8	8	8	8
9	107470	NUT, HEX FLANGE SPIRALOCK 3/8-16 GR8	6	6	6	6	6	6
10	154994	TUBE, ANGLE ADJUST	6	6	6	6	6	6
11	154995	U-BOLT, 1/2	6	6	6	6	6	6
12	154997	BUSHING, TINE RETAINER	35	42	49	56	63	70
13	154998	PLATE, ANGLE ADJUSTMENT	4	4	4	4	4	4
14	155927	CAP, TUBE 1.95 X 1.5 BLACK	6	6	6	6	6	6
15	155956	BUSHING, ANGLE ADJUSTMENT	8	8	8	8	8	8
16	100576	TOOL BAR 3 X 3 X 3/16 X 70 (168799)	1	--	--	--	--	--
16	156778	TUBE, RIDE BAR 90.5" (168800 & 168801)	--	1	1	--	--	--
16	155005	TUBE, SQ 3 X 3/16 X 107" (168802)	--	--	--	1	--	--
16	156779	TUBE, RIDE BAR 138" (168803 & 168804)	--	--	--	--	1	1
17	164315	TINE, HARROW 7/16 X 18	15	18	21	24	27	30
18	164318	GANG BAR, 5 TINE 8 IN 73" (168799)	3	--	--	--	--	--
18	164319	GANG BAR, 6 TINE 8 IN 89" (168800)	--	3	--	--	--	--
18	164320	GANG BAR, 7 TINE 8 IN 105" (168801)	--	--	3	--	--	--
18	164321	GANG BAR, 8 TINE 8 IN 121" (168802)	--	--	--	3	--	--
18	164322	GANG BAR, 9 TINE 8 IN 137" (168803)	--	--	--	--	3	--
18	164323	GANG BAR, 10 TINE 8 IN 153" (168804)	--	--	--	--	--	3
19	166336	PLATE, GANG BAR 3 ROW	2	2	2	2	2	2
20	168763	LINK, TINE ADJUSTMENT	2	2	2	2	2	2
21	2-095-010017	BOLT, SHOULDER HEX HEAD	6	6	6	6	6	6



MODEL 9630-20 (P/N 187526)

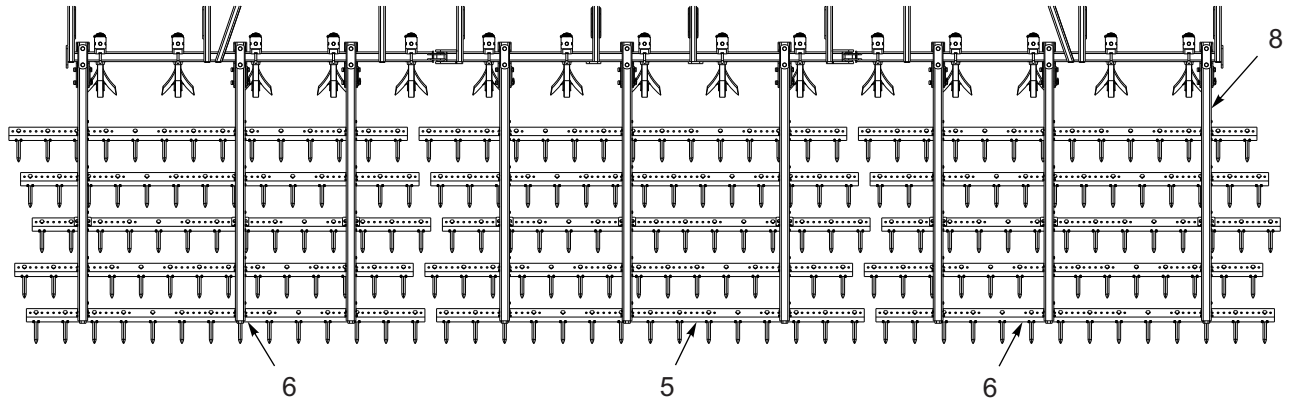


MODEL 9630-24 (P/N 187527)

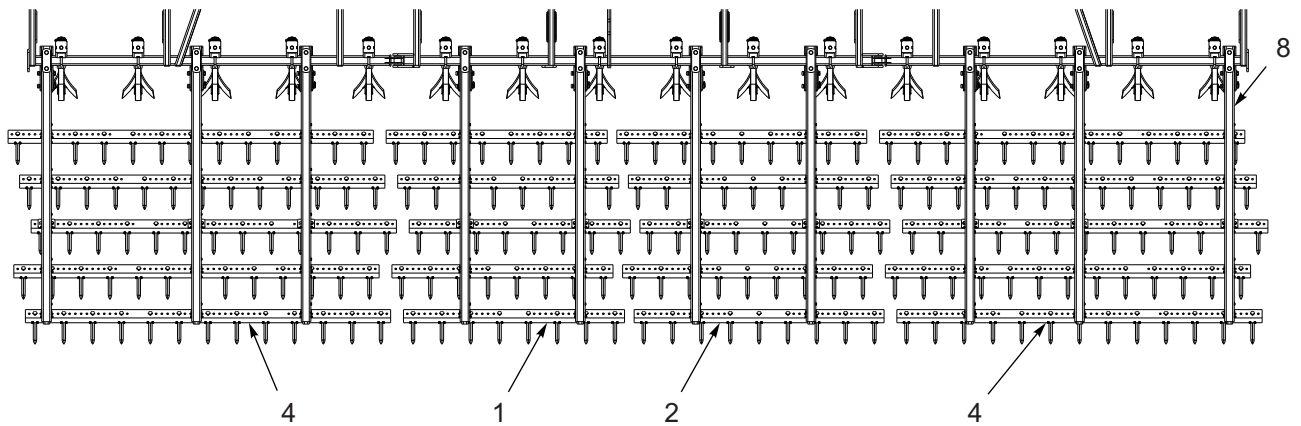


MODEL 9630-28 (P/N 187528)

Figure 1-26: 5 Row Spike Harrow Assembly (1 of 3)

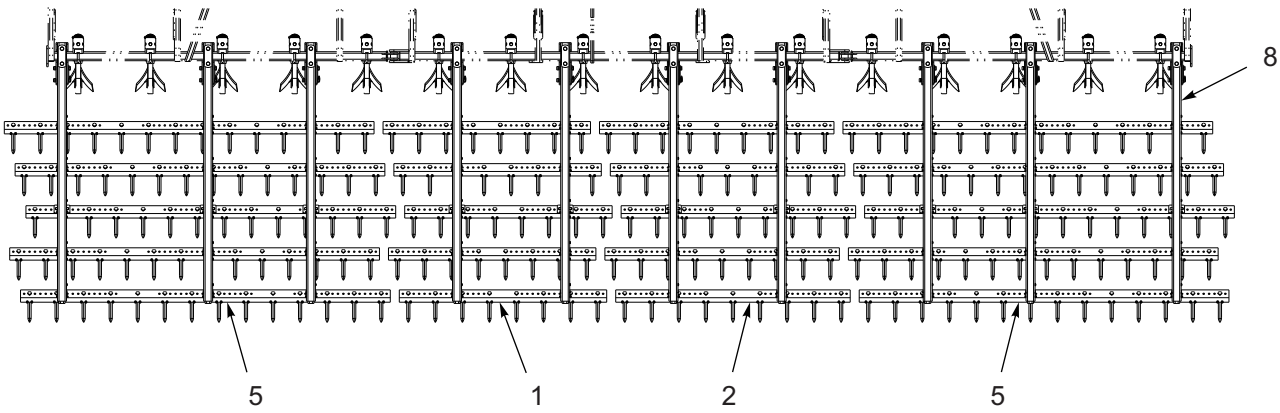


MODEL 9630-30NC (P/N 187530)

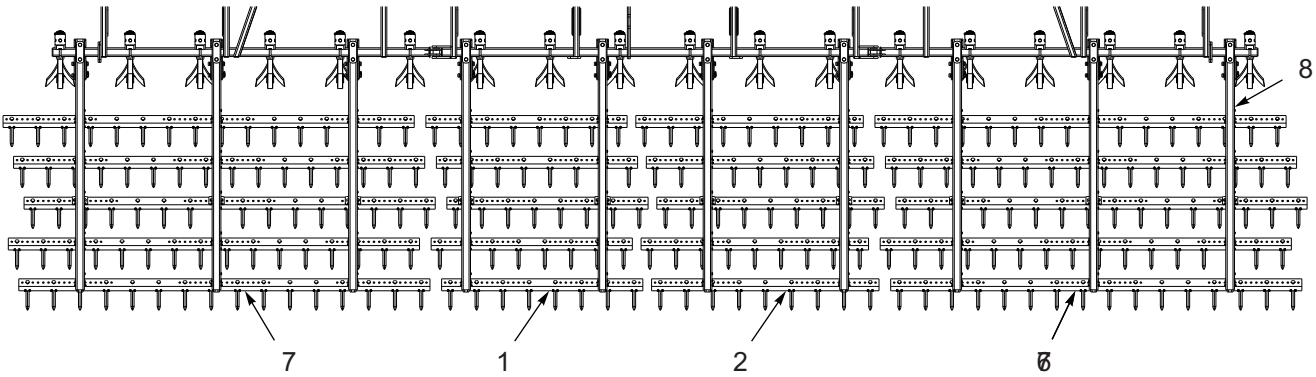


MODEL 9630-30 (P/N 187529)

Figure 1-27: 5 Row Spike Harrow Assembly (2 of 3)



MODEL 9630-32 (P/N 187531)



MODEL 9630-34 (P/N 187532)

Figure 1-28: 5 Row Spike Harrow Assembly (3 of 3)

5 ROW SPIKE HARROW ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.						
--	187526	5 ROW SPIKE HARROW 9630-20	*						
--	187527	5 ROW SPIKE HARROW 9630-24		*					
--	187528	5 ROW SPIKE HARROW 9630-28			*				
--	187530	5 ROW SPIKE HARROW 9630-30NC				*			
--	187529	5 ROW SPIKE HARROW 9630-30					*		
--	187531	5 ROW SPIKE HARROW 9630-32						*	
--	187532	5 ROW SPIKE HARROW 9630-34							*
1	186187	SPIKE BAR ASSY, 8 TOOTH 9SP (SEE PAGE 1-63)	10	--	--	--	5	5	5
2	186188	SPIKE BAR ASSY, 9 TOOTH 9SP (SEE PAGE 1-63)	--	--	--	--	5	5	5
3	186189	SPIKE BAR ASSY, 10 TOOTH 9SP (SEE PAGE 1-63)	--	10	--	--	--	--	--
4	186192	SPIKE BAR ASSY, 13 TOOTH 9SP (SEE PAGE 1-63)	--	--	10	--	10	--	--
5	186170	SPIKE BAR ASSY, 14 TOOTH 9SP (SEE PAGE 1-63)	5	--	5	10	--	10	--
6	186174	SPIKE BAR ASSY, 15 TOOTH 9SP (SEE PAGE 1-63)	--	5	--	5	--	--	--
7	186166	SPIKE BAR ASSY, 16 TOOTH 9SP (SEE PAGE 1-63))	--	--	--	--	--	--	10
8	186195	ARM ASSY, SPIKE HARROW 5R (SEE PAGE 1-63)	7	7	9	9	10	10	10

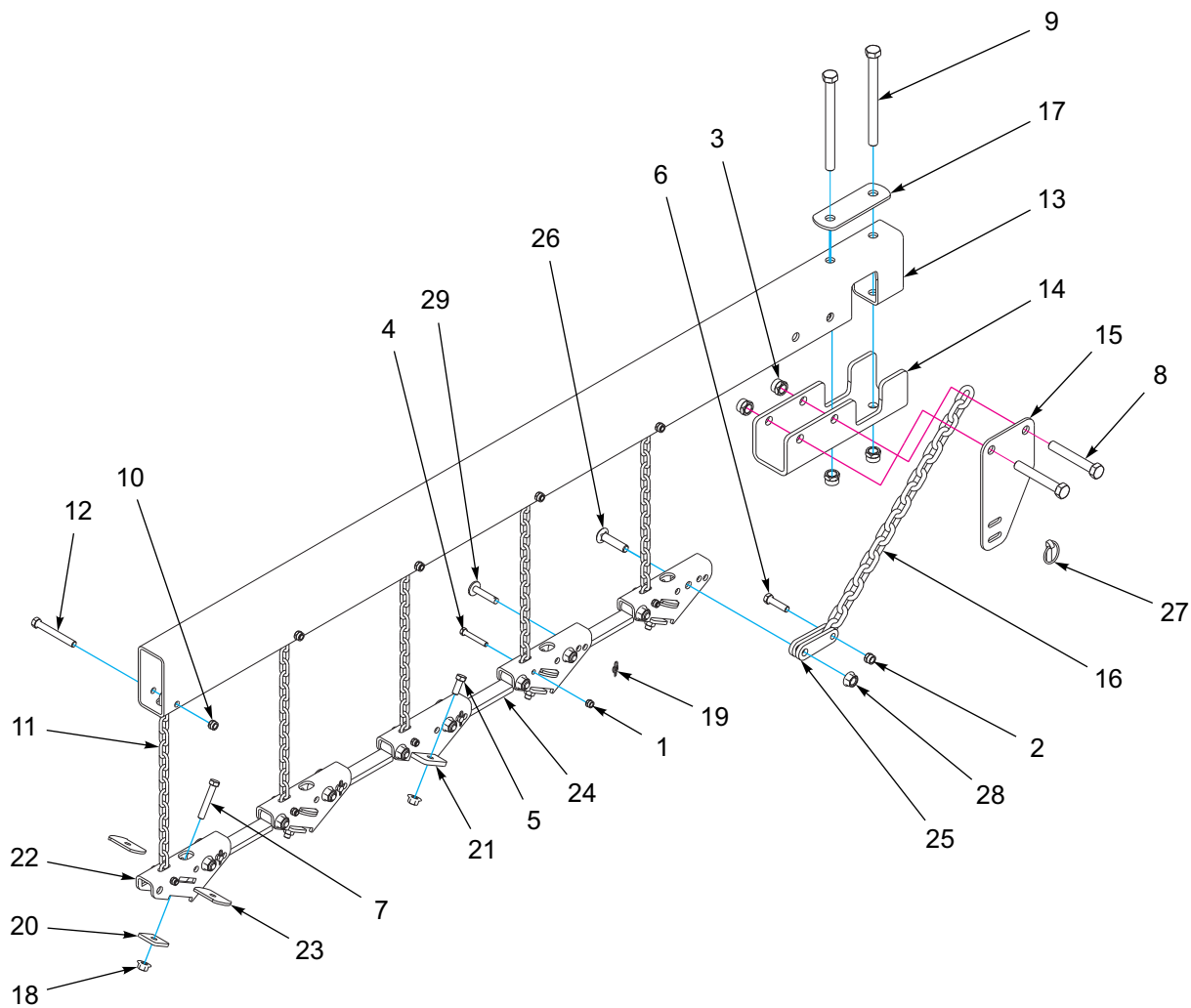
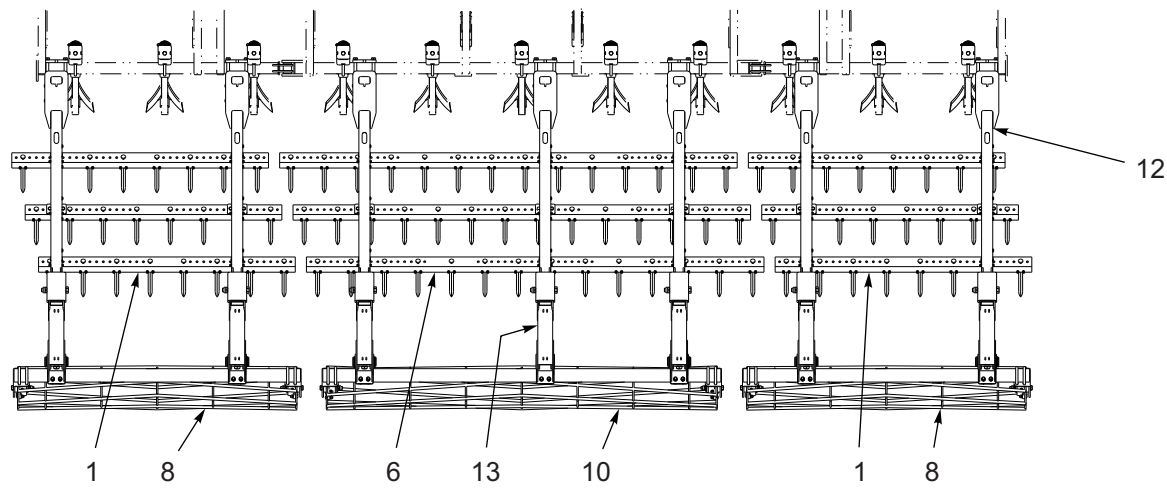


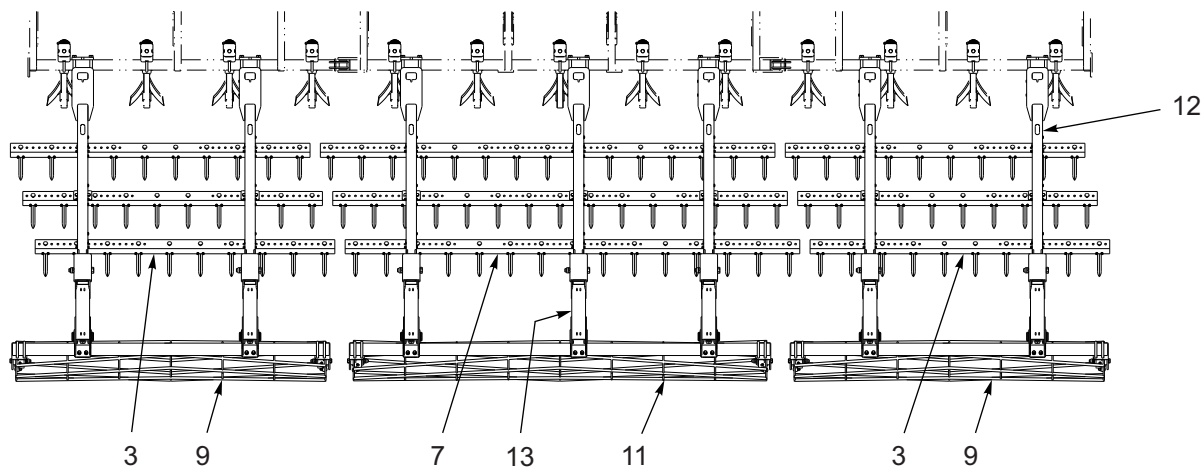
Figure 1-29: Arm Assembly - 5 Row Spike Harrow

ARM ASSEMBLY - 5 ROW SPIKE HARROW

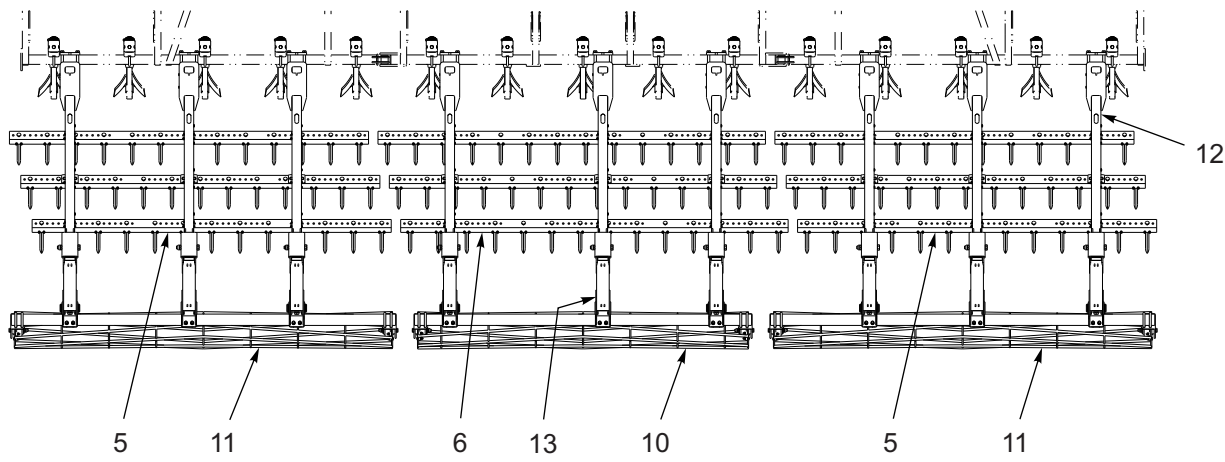
ITEM	PART NO.	DESCRIPTION	QTY.
--	186195	ARM ASSEMBLY, SPIKE HARROW 5 ROW	
1	1-512-010005-05	NUT, HEX, SLFLKG, 3/8-16 GRB	5
2	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	1
3	1-512-010005-15	NUT, HEX, SLFLKG, 3/4-10 GRB	4
4	1-654-010051-11	SCREW, HEX CP, 3/8-16 X 2-1/2 G5ZP	5
5	1-654-010055-02	SCREW, 1/2-13 UNC X 1-1/4, CP GR5	2
6	1-654-010055-05	SCREW, HEX CAP, 1/2-13, UNC X 2 GR5	1
7	1-654-010055-09	SCREW, HEX CAP, 1/2-13, UNC X 3 GR5	4
8	1-654-010061-15	SCREW, HEX CAP, 3/4-10, UNC X 5 GR5	2
9	1-654-010061-23	SCREW, HEX, 3/4-10, UNC X 9 GR5	2
10	101988	NUT, HEX, SLF-LKG, 7/16-14 GRB	5
11	133937	CHAIN, LIFTING HARROW, WP	5
12	141808	SCREW, HEX CAP, 7/16-14 UNC X 3-1/2 G5	5
13	166175	ARM SPIKE HARROW, 5 ROW	1
14	166176	CLAMP, SPIKE HARROW ARM	1
15	166177	BRACKET, PULL CHAIN	1
16	166242	CHAIN, PULL, 3/8	1
17	168897	CLAMP PLATE, HARROW ARM	1
18	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	6
19	172673	WRAP AROUND LOCKING COTTER	4
20	186193	CLAMP PLATE, SPIKE BAR	4
21	186200	MOUNT, HARROW BAR W/TABS	1
22	186204	MOUNT, HARROW BAR	4
23	186205	PLATE, BAR CLAMP	8
24	186207	LINK, HARROW BAR	4
25	186210	CONNECTOR, PULL CHAIN	2
26	187517	SCREW, RDHD SHT SQNK, 5/8-11 X 2.75	9
27	2-557-010009	PIN, LYNCH	1
28	29SFFL 5811	NUT, HEX, SLFLKG, GRB 3/8-16	9
29	8C520	CLEVIS PIN	4



MODEL 9630-20 (P/N 187555)

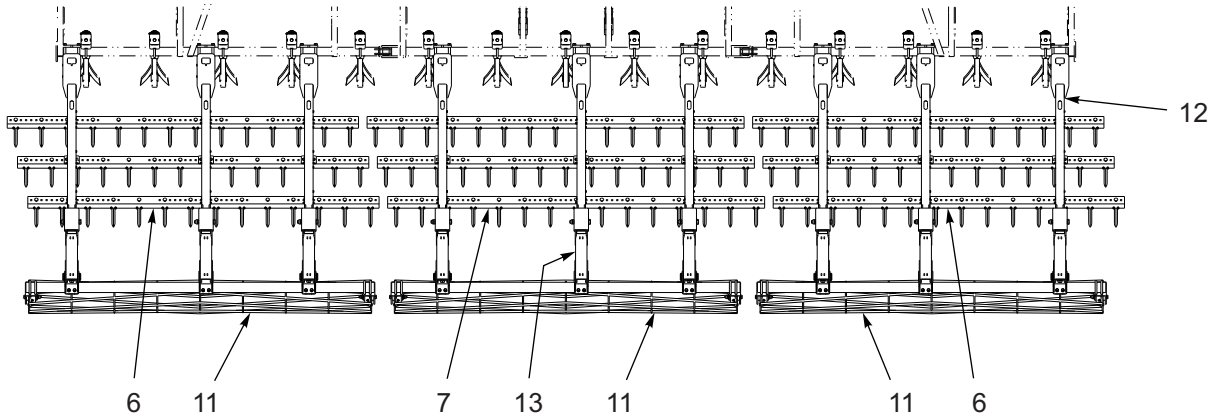


MODEL 9630-24 (P/N 187556)

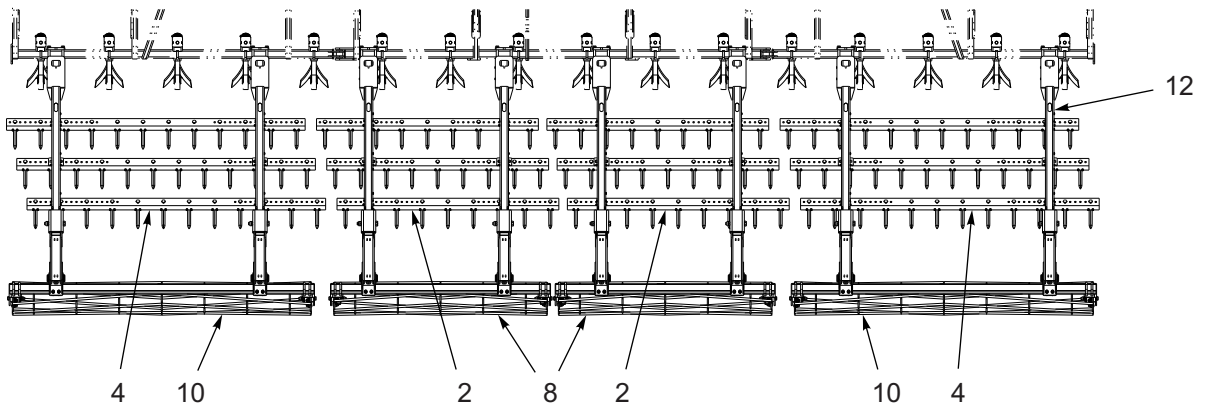


MODEL 9630-28 (P/N 187557)

Figure 1-30: 3 Row Spike and Reel Harrow Assembly (1 of 3)

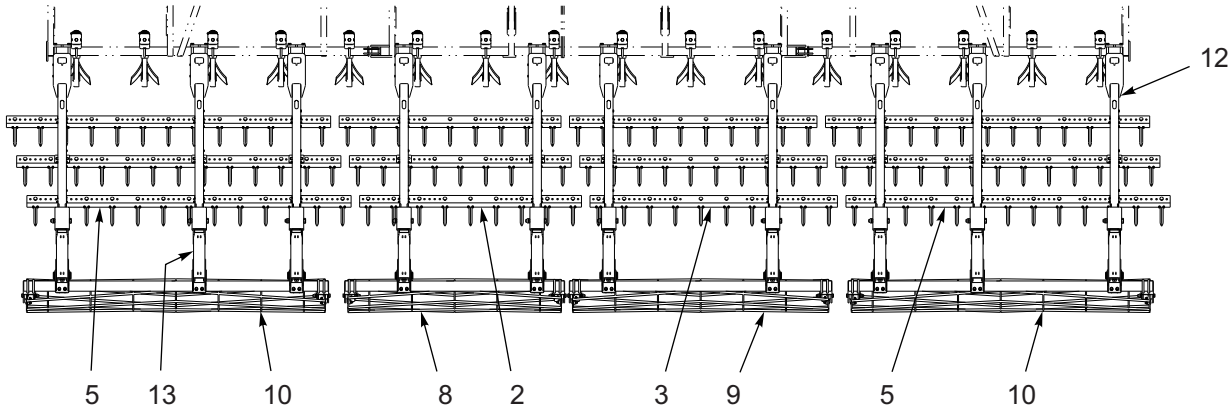


MODEL 9630-30NC (P/N187559)

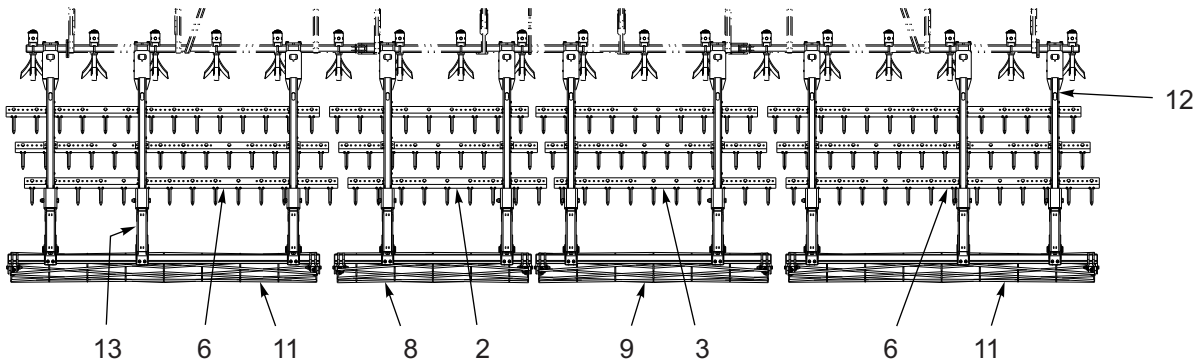


MODEL 9630-30 (P/N187558)

Figure 1-31: 3 Row Spike and Reel Harrow Assembly (2 of 3)



MODEL 9630-32 (P/N187560)



MODEL 9630-34 (P/N187561)

Figure 1-32: 3 Row Spike and Reel Harrow Assembly (3 of 3)

3 ROW SPIKE AND REEL HARROW ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.						
--	187555	3 ROW SPIKE/REEL ASSY 9630-20	*						
--	187556	3 ROW SPIKE/REEL ASSY 9630-24		*					
--	187557	3 ROW SPIKE/REEL ASSY 9630-28			*				
--	187559	3 ROW SPIKE/REEL ASSY 9630-30NC				*			
--	187558	3 ROW SPIKE/REEL ASSY 9630-30					*		
--	187560	3 ROW SPIKE/REEL ASSY 9630-32						*	
--	187561	3 ROW SPIKE/REEL ASSY 9630-34							*
1	186187	SPIKE BAR ASSY, 8 TOOTH 9SP (SEE PAGE 1-63)	6	--	--	--	--	--	--
2	186188	SPIKE BAR ASSY, 9 TOOTH 9SP (SEE PAGE 1-63)	--	--	--	--	6	3	3
3	186189	SPIKE BAR ASSY, 10 TOOTH 9SP (SEE PAGE 1-63)	--	6	--	--	--	3	3
4	186191	SPIKE BAR ASSY, 12 TOOTH 9SP (SEE PAGE 1-63)	--	--	--	--	6	--	--
5	186192	SPIKE BAR ASSY, 13 TOOTH 9SP (SEE PAGE 1-63)	--	--	6	--	--	6	--
6	186170	SPIKE BAR ASSY, 14 TOOTH 9SP (SEE PAGE 1-63)	3	--	3	6	--	--	6
7	186174	SPIKE BAR ASSY, 15 TOOTH 9SP (SEE PAGE 1-63)	--	3	--	3	--	--	--
8	168728	REEL ASSY 12 DIA X 75" (SEE PAGE 1-55)	2	--	--	--	2	1	1
9	168729	REEL ASSY 12 DIA X 90" (SEE PAGE 1-55)	--	2	--	--	--	1	1
10	168730	REEL ASSY 12 DIA X 105" (SEE PAGE 1-55)	1	--	1	--	2	2	--
11	168731	REEL ASSY 12 DIA X 120" (SEE PAGE 1-55)	--	1	2	3	--	--	2
12	203089	ARM ASSY 3 RSD (SEE PAGE 1-65)	6	6	6	6	8	8	8
13	203090	ARM ASSY 3 RSD W/O SPRING (SEE PAGE 1-67)	1	1	3	3	--	2	2

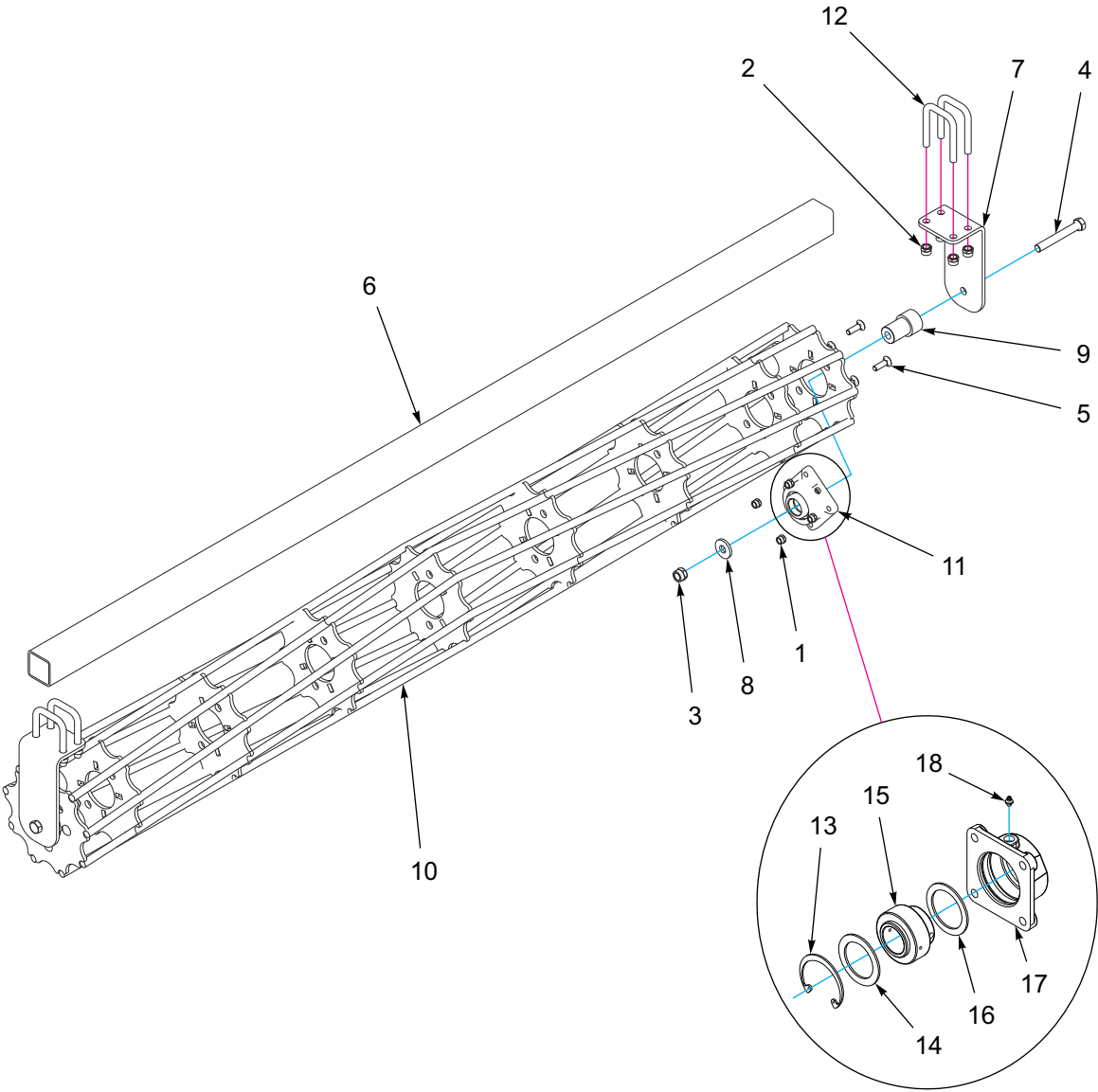
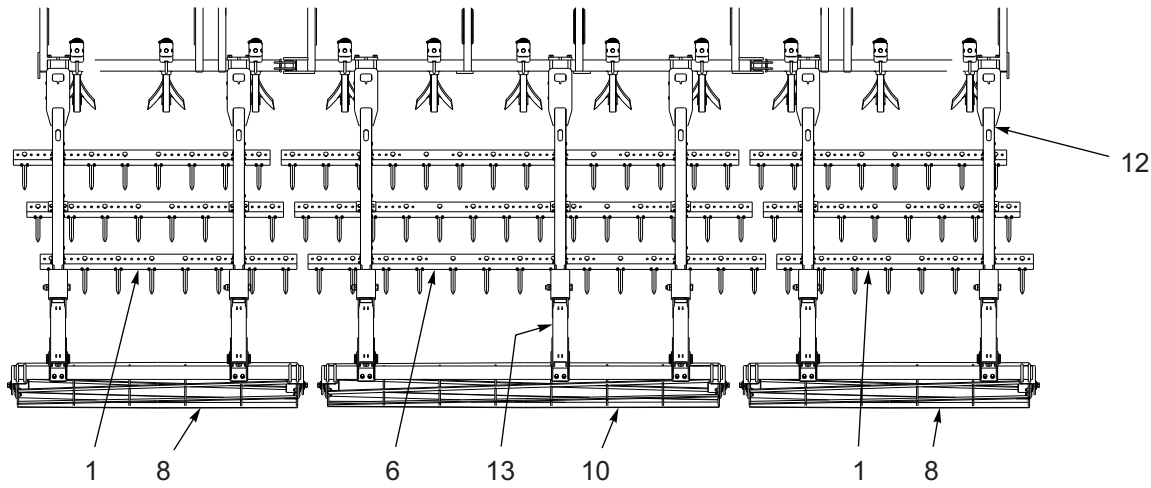


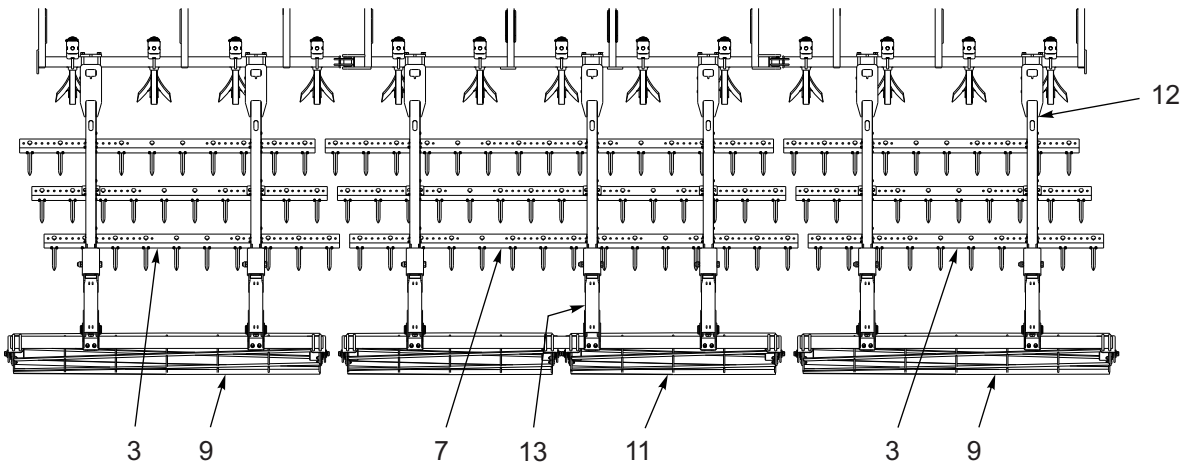
Figure 1-33: Reel Assembly

REEL ASSEMBLY

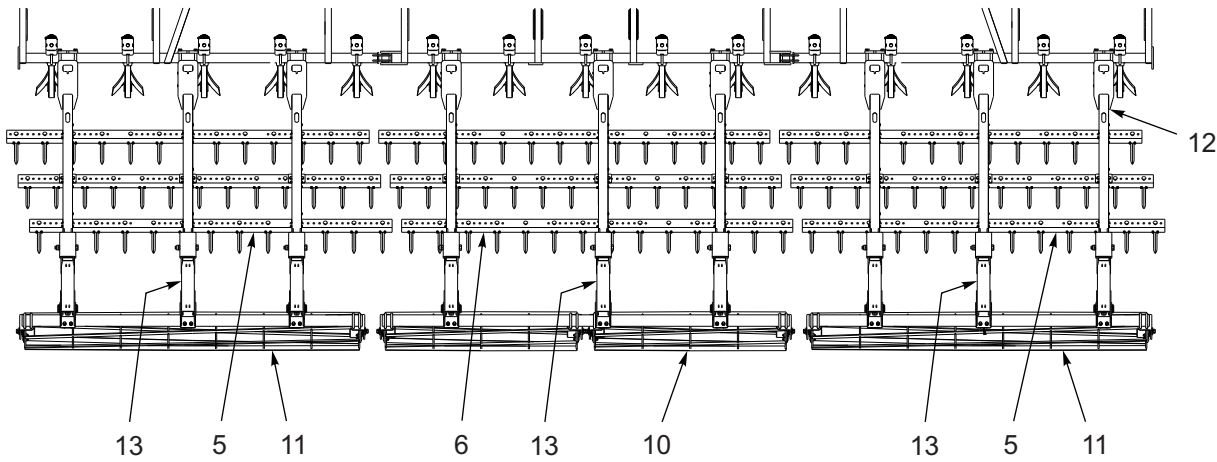
ITEM	PART NO.	DESCRIPTION	QTY.
--	168728	REEL ASSEMBLY, 12 DIA X 75"	
--	168729	REEL ASSEMBLY, 12 DIA X 90"	
--	168730	REEL ASSEMBLY, 12 DIA X 105"	
--	168731	REEL ASSEMBLY, 12 DIA X 120"	
1	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	8
2	1-512-010005-13	NUT, HEX, SLFLKG, GRB 5/8-11	8
3	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	2
4	1-654-010061-16	SCREW, HEX, 3/4-10 UNC X 5-1/2, GR5	2
5	1-654-010070-04	SCREW, RDH, SQ NCK, 1/2-13 X 1-3/4	8
6	166341	GANG BAR, REEL, 77 L (USED WITH 168728)	1
6	166342	GANG BAR, REEL, 92 L (USED WITH 168729)	1
6	166343	GANG BAR, REEL, 107 L (USED WITH 168730)	1
6	166344	GANG BAR, REEL, 122 L (USED WITH 168731)	1
7	166346	BEARING MOUNT, REEL	2
8	168750	WASHER, FLAT, 3/4	2
9	176631	BUSHING, REEL BEARING	2
10	176635	REEL, 12 DIA X 75" (USED WITH 168728)	1
10	176636	REEL, 12 DIA X 90" (USED WITH 168729)	1
10	176637	REEL, 12 DIA X 105" (USED WITH 168730)	1
10	176638	REEL, 12 DIA X 120" (USED WITH 168731)	1
11	176656	BEARING ASSY, 4 BOLT	2
12	8-102-010012	U BOLT, SHANK CLAMP	4
13	8-630-010001	RING RETAINING	1
14	8-861-010009	WASHER FLAT	1
15	1-065-010012	BEARING CYLINDRICAL 1-3/4 ID	1
16	8-861-010008	WASHER FLAT	1
17	176655	HOUSING, BEARING 4 BOLT	1
18	1-298-010001-1	ZERK FITTING 1/4 SAE	1



MODEL 9630-20 (P/N 203078)

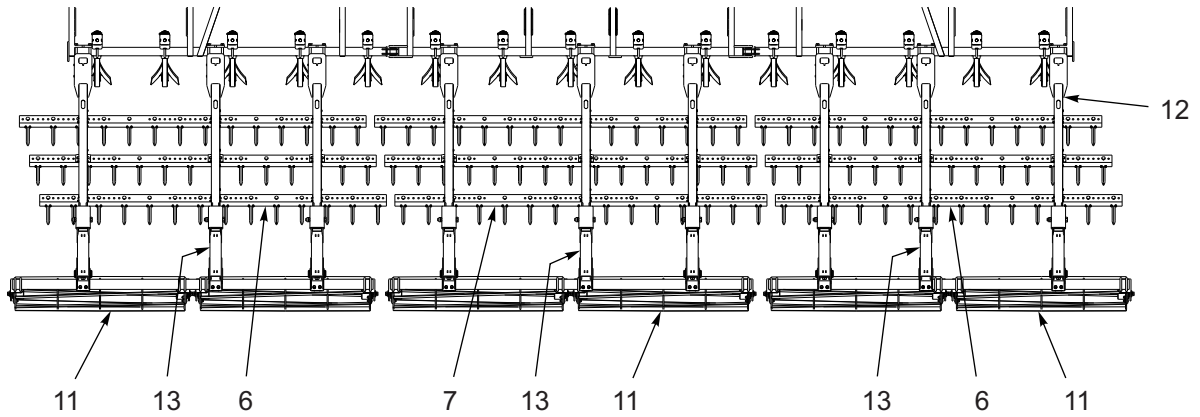


MODEL 9630-24 (P/N 203079)

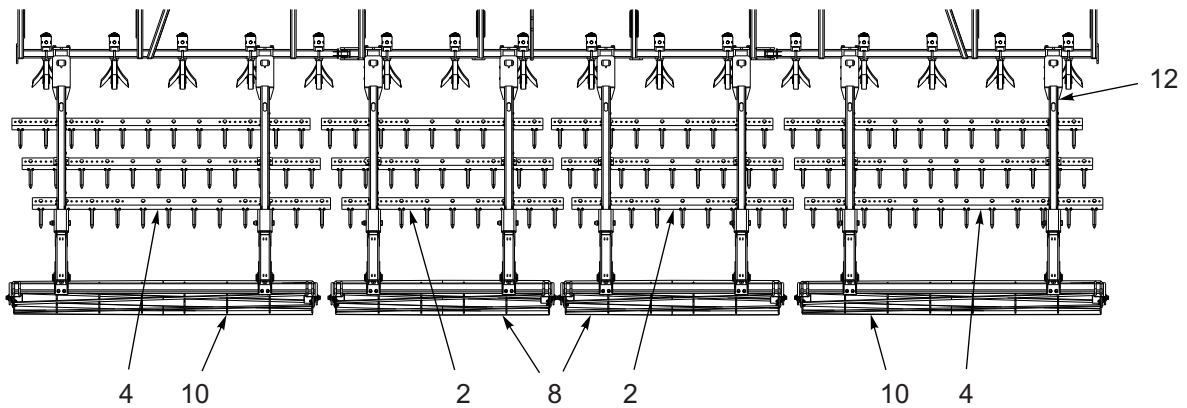


MODEL 9630-28 (P/N 203080)

Figure 1-34: 3 RSD and Flat Reel Assembly (1 of 3)

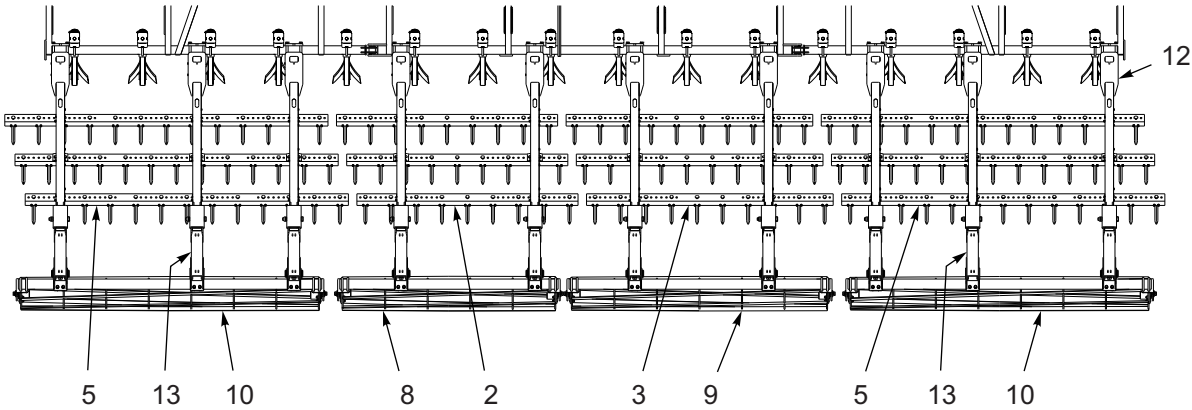


MODEL 9630-30NC (P/N203082)

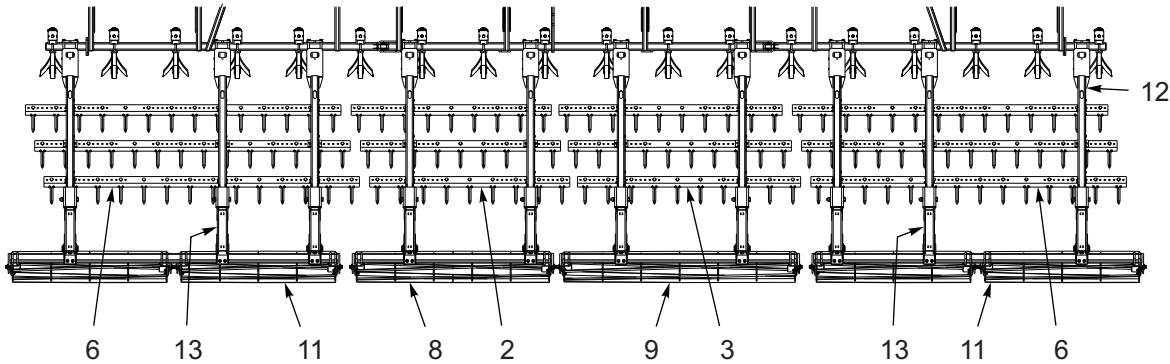


MODEL 9630-30 (P/N203081)

Figure 1-35: 3 RSD and Flat Reel Assembly (2 of 3)



MODEL 9630-32 (P/N203083)



MODEL 9630-34 (P/N203084)

Figure 1-36: 3 RSD and Flat Reel Assembly (3 of 3)

3 RSD AND FLAT REEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.						
--	203078	3 RSD & FLAT REEL 9630-20	*						
--	203079	3 RSD & FLAT REEL 9630-24		*					
--	203080	3 RSD & FLAT REEL 9630-28			*				
--	203082	3 RSD & FLAT REEL 9630-30NC				*			
--	203081	3 RSD & FLAT REEL 9630-30					*		
--	203083	3 RSD & FLAT REEL 9630-32						*	
--	203084	3 RSD & FLAT REEL 9630-34							*
1	186187	SPIKE BAR ASSY, 8 TOOTH 9SP (SEE PAGE 1-63)	6	--	--	--	--	--	--
2	186188	SPIKE BAR ASSY, 9 TOOTH 9SP (SEE PAGE 1-63)	--	--	--	--	6	3	3
3	186189	SPIKE BAR ASSY, 10 TOOTH 9SP (SEE PAGE 1-63)	--	6	--	--	--	3	3
4	186191	SPIKE BAR ASSY, 12 TOOTH 9SP (SEE PAGE 1-63)	--	--	--	--	6	--	--
5	186192	SPIKE BAR ASSY, 13 TOOTH 9SP (SEE PAGE 1-63)	--	--	6	--	--	6	--
6	186170	SPIKE BAR ASSY, 14 TOOTH 9SP (SEE PAGE 1-63)	3	--	3	6	--	--	6
7	186174	SPIKE BAR ASSY, 15 TOOTH 9SP (SEE PAGE 1-63)	--	3	--	3	--	--	--
8	203185	REEL ASSY 12 DIA X 75" (SEE PAGE 1-61)	2	--	--	--	2	1	1
9	203186	REEL ASSY 12 DIA X 90" (SEE PAGE 1-61)	--	2	--	--	--	1	1
10	203187	REEL ASSY 12 DIA X 105" (SEE PAGE 1-61)	1	--	2	--	2	2	--
11	203188	REEL ASSY 12 DIA X 120" (SEE PAGE 1-61)	--	1	1	3	--	--	2
12	203089	ARM ASSY 3 RSD (SEE PAGE 1-65)	6	6	6	6	8	8	8
13	203090	ARM ASSY 3 RSD W/O SPRING (SEE PAGE 1-67)	1	1	3	3	--	2	2

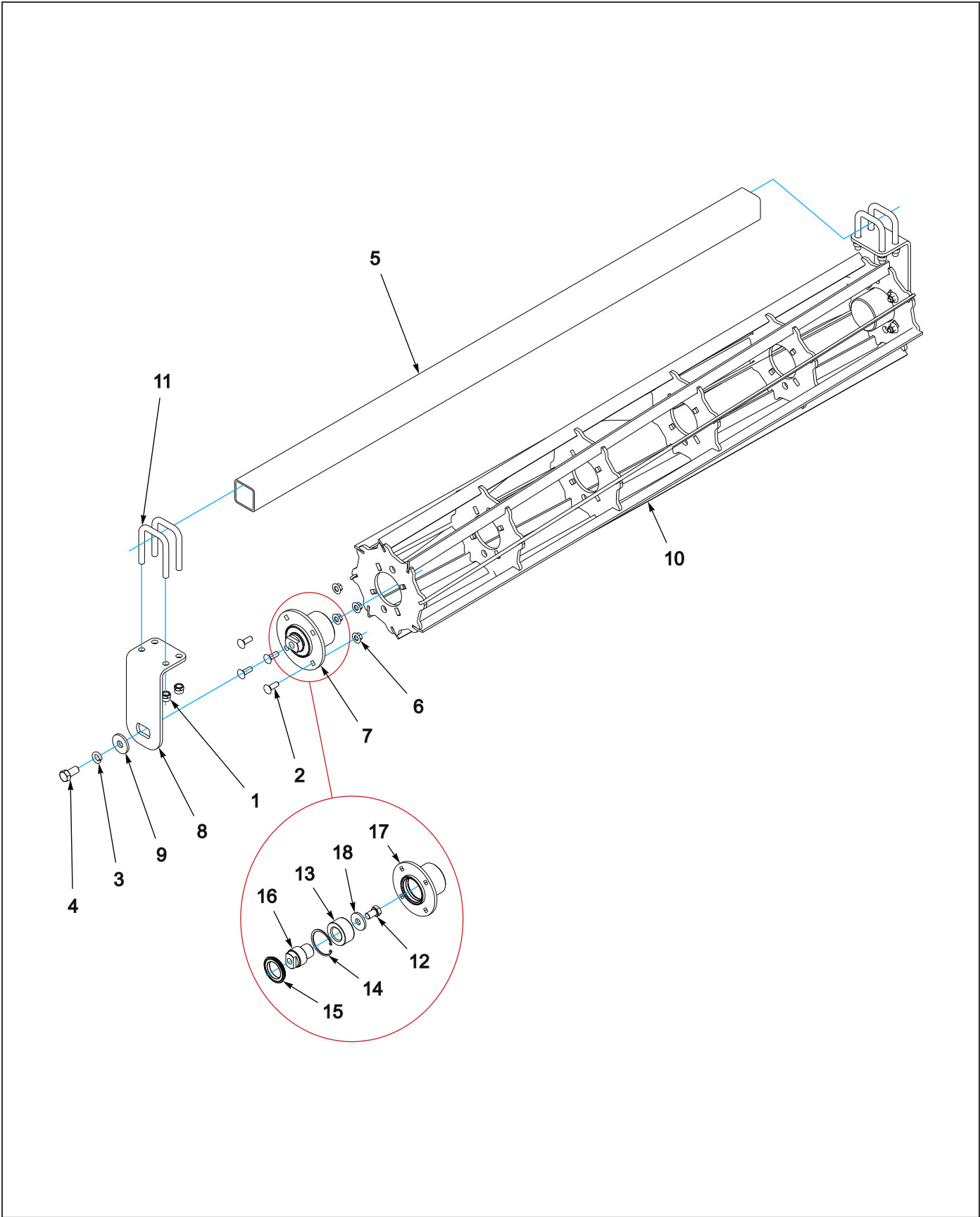


Figure 1-37: Flat Reel Assembly

FLAT REEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.			
--	203185	REEL ASSY 12 DIA X 75"	*			
--	203186	REEL ASSY 12 DIA X 90"	*			
--	203187	REEL ASSY 12 DIA X 105"	*			
--	203188	REEL ASSY 12 DIA X 120"	*			
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8	8	16
2	1-654-010070-03	SCREW RDHD SQNK1/2-13X1-1/2	8	8	8	16
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	2	2	2	4
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	2	2	2	4
5	166341	GANG BAR, REEL, 77 L (USED WITH 203185)	1	--	--	--
5	166342	GANG BAR, REEL, 92 L (USED WITH 203186)	--	1	--	--
5	166343	GANG BAR, REEL, 107 L (USED WITH 20318)	--	--	1	--
5	204380	GANG BAR, REEL, 128" (USED WITH 203188)	--	--	--	1
6	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	8	8	8	16
7	200222	HUB ASSY REEL	2	2	2	4
8	200238	BEARING MOUNT, REEL	2	2	2	4
9	200259	WASHER, 3/4 HEAVY - 2-1/4	2	2	2	4
10	200297	REEL WLDMT 12" DIA X 75" FLAT (USED WITH 203185)	1	--	--	--
10	200298	REEL WLDMT 12" DIA X 90" FLAT (USED WITH 203186)	--	1	--	--
10	200299	REEL WLDMT 12" DIA X 105" FLAT (USED WITH 203187)	--	--	1	--
10	200296	REEL WLDMT 12" DIA X 60" FLAT (USED WITH 203188)	--	--	--	2
11	8-102-010012	U BOLT	4	4	4	8
12	129263	SCREW HEX CAP 3/4-10 X 1-1/4	2	2	2	4
13	174526	BEARING, DOUBLE TAPER RLLR	2	2	2	4
14	174532	INTERNAL SNAP RING	2	2	2	4
15	187757	ROCKSHAFT-REEL MOUNT, WLDMT	2	2	2	4
16	200218	SPINDLE REEL BEARING	2	2	2	4
17	200221	HUB WLDMT REEL	2	2	2	4
18	200259	WASHER, 3/4 HEAVY - 2-1/4	2	2	2	4

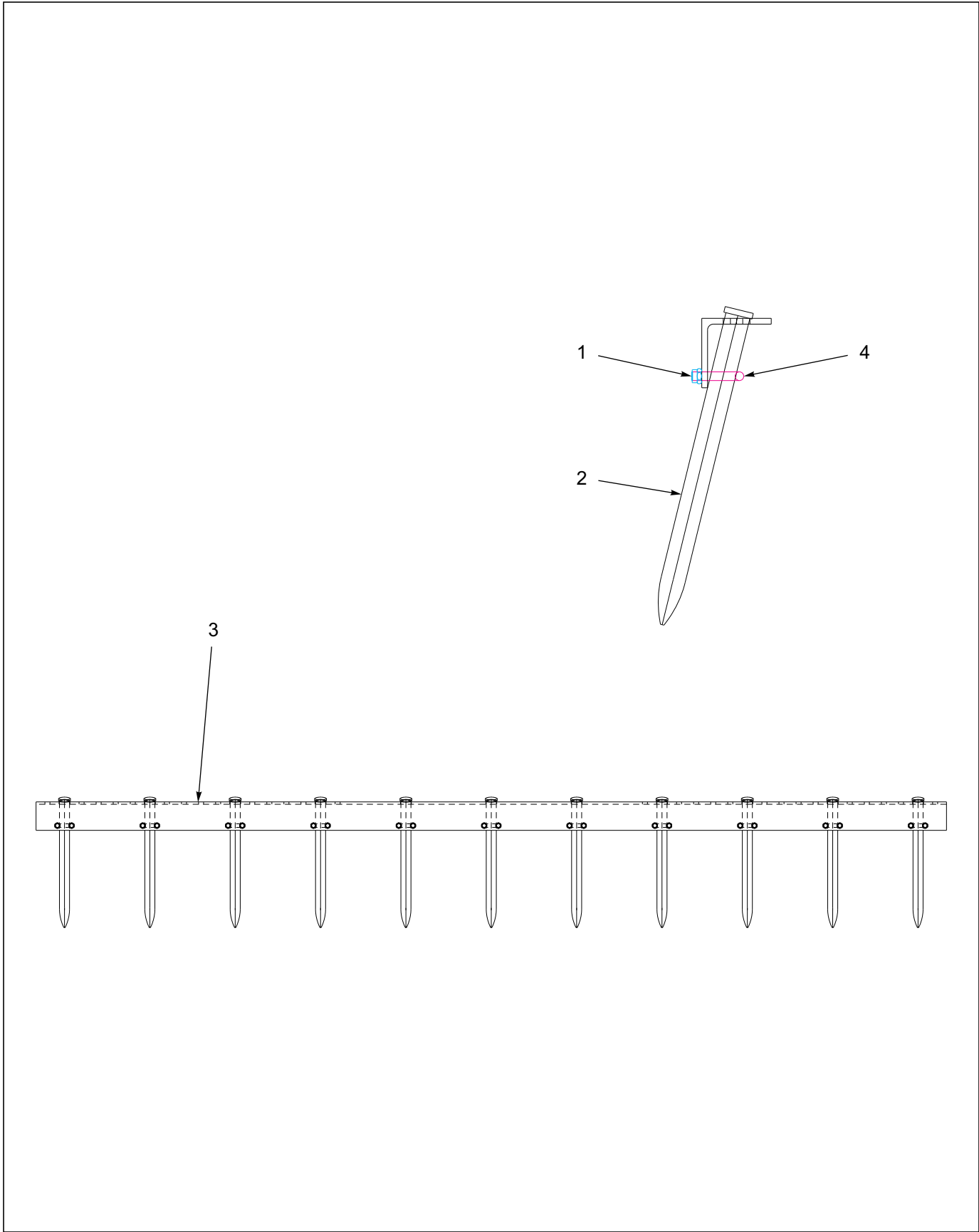


Figure 1-38: Spike Bar Assembly, 9 SP

SPIKE BAR ASSEMBLY, 9 SP

ITEM	PART NO.	DESCRIPTION	QTY.									
--	186187	SPIKE BAR ASSY, 8 TOOTH 9SP	*									
--	186188	SPIKE BAR ASSY, 9 TOOTH 9SP		*								
--	186189	SPIKE BAR ASSY, 10 TOOTH 9SP			*							
--	186191	SPIKE BAR ASSY, 12 TOOTH 9SP				*						
--	186192	SPIKE BAR ASSY, 13 TOOTH 9SP					*					
--	186170	SPIKE BAR ASSY, 14 TOOTH 9SP						*				
--	186174	SPIKE BAR ASSY, 15 TOOTH 9SP							*			
--	186166	SPIKE BAR ASSY, 16 TOOTH 9SP								*		
1	1-512-010005-05	NUT, HEX, SLFLKG, 3/8-16, UNC GRB	16	18	20	24	26	28	30	32		
2	166148	SPIKE, TOOTH, 3/4 SQ X 14	8	9	10	12	13	14	15	16		
3	186178	SPIKE BAR, 8T 69 9SP	1	--	--	--	--	--	--	--		
3	186179	SPIKE BAR, 9T 78 9SP	--	1	--	--	--	--	--	--		
3	186180	SPIKE BAR, 10T 87 9SP	--	--	1	--	--	--	--	--		
3	186182	SPIKE BAR, 12T 105 9SP	--	--	--	1	--	--	--	--		
3	186183	SPIKE BAR, 13T 114 9SP	--	--	--	--	1	--	--	--		
3	186169	SPIKE BAR, 14T 123 9SP	--	--	--	--	--	1	--	--		
3	186173	SPIKE BAR, 15T 132 9SP	--	--	--	--	--	--	1	--		
3	186165	SPIKE BAR, 16T 141 9SP	--	--	--	--	--	--	--	1		
4	8-102-010017	U-BOLT, SPIKE ANCHOR	8	9	10	12	13	14	15	16		

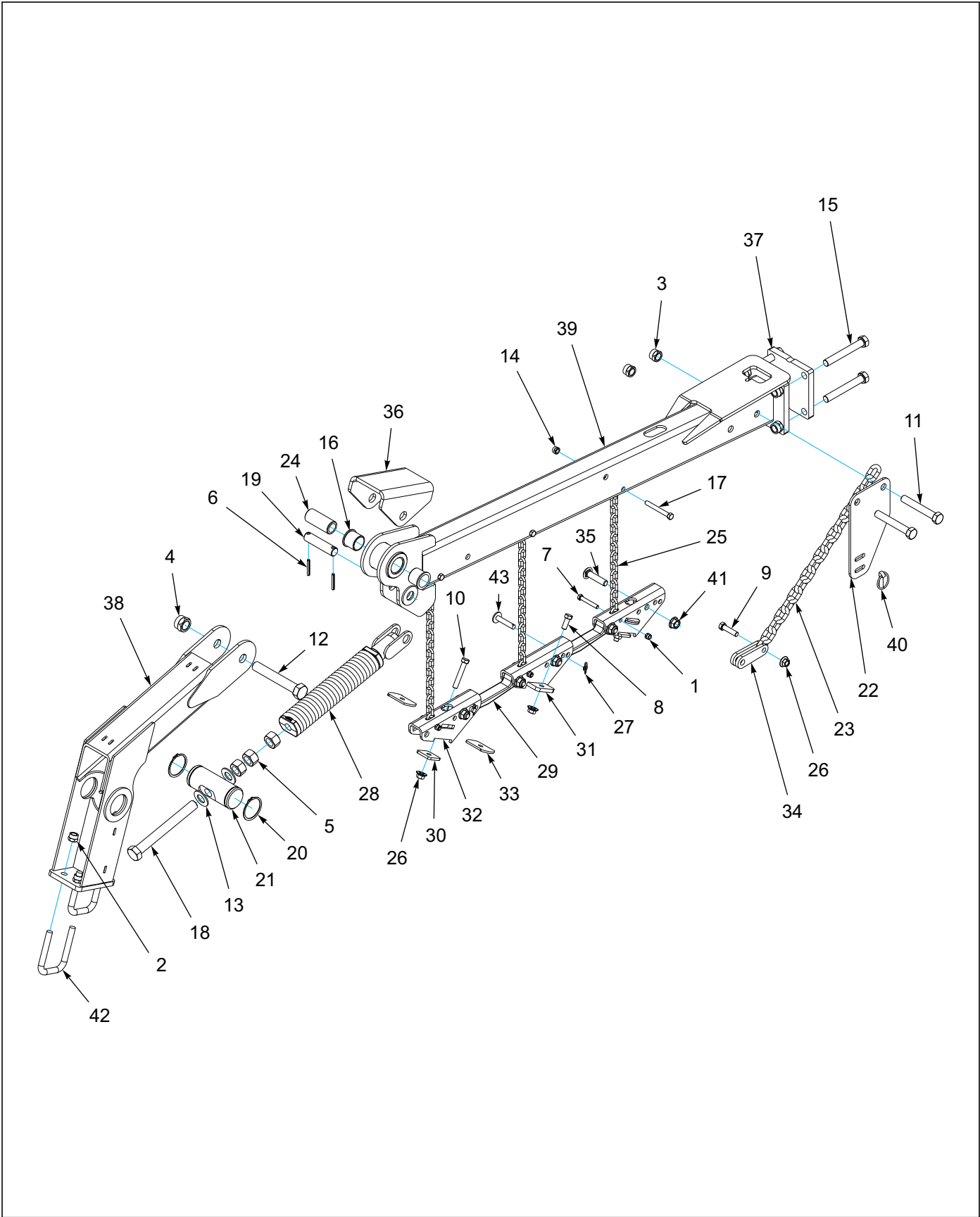


Figure 1-39: Arm Assembly - Spike & Reel

ARM ASSEMBLY - SPIKE & REEL

ITEM	PART NO.	DESCRIPTION	QTY.
--	203089	ARM ASSY 3 RSD	
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
2	1-512-010005-13	NUT, HEX, SLFLKG, 5/8-11 UNC, GRB	4
3	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	6
4	1-512-010005-19	NUT, HEX, SLFLKG 1-8 UNC, GRB	1
5	1-512-010007-14	NUT, HEX, 1-8 UNC, GR2	3
6	1-647-010004221	ROLL PIN, SLTD, 1/4 X 2	2
7	1-654-010051-11	SCREW, HEX CP, 3/8-16 X 2-1/2 G5ZP	3
8	1-654-010055-02	SCREW, 1/2-13 UNC X 1-1/4, CP GR5	2
9	1-654-010055-05	SCREW, HEX CAP, 1/2-13 UNC X 2 GR5	1
10	1-654-010055-09	SCREW, HEX CAP, 1/2-13, UNC X 3 GR5	2
11	1-654-010061-15	SCREW, HEX CAP, 3/4-10, UNC X 5 GR5	2
12	1-654-010125-18	SCREW HEX CAP, 1-8UNCX6-1/2GR8	1
13	1-861-010032-24	WASHER FL 1IN NARROW ZP	2
14	101988	NUT,HEXSLF-LKG 7/16-14 GRB	3
15	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	4
16	140599	BEARING, FLANGE 1-1/2	2
17	141808	SCREW HX CP7/16-14UNCX3-1/2G5	3
18	152210	BOLT, ADJ, 1 X 9	1
19	156785	PIN 1 X 4-1/4	1
20	158896	SNAP RING, 2-1/2 SHAFT	2
21	158897	PIN, ADJUSTMENT	1
22	166177	BRACKET, PULL CHAIN	1
23	166242	CHAIN, PULL 3/8	1
24	168739	BUSHING PIVOT 1-1/2 X 3-7/16	1
25	168764	CHAIN 17 LINK 1/4	3
26	172509	NUT, 1/2-13 WIDE FLNG TOP LCK F	5
27	172673	WRAP AROUND LOCKING COTTER	2
28	172677	SPRING ASSY, W/ANCHOR	1
29	185697	LINK, HARROW BAR	2
30	186193	CLAMP PLATE, SPIKE BAR	2
31	186200	MOUNT, HARROW BAR W/TABS	1
32	186204	MOUNT, HARROW BAR	2
33	186205	PLATE, BAR CLAMP	4
34	186210	CONNECTOR, PULL CHAIN	2
35	187517	SCREW RDHD SHT SQNK5/8-11X2.75	5
36	191459	STOP, HARROW ARM	1
37	192807	MOUNTING PLATE, HARROW	1
38	199359	ARM WLDMT REEL	1
39	199392	ARM WLDMT HARROW	1
40	2-557-010009	PIN LYNCH	1
41	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	5
42	8-102-010012	U BOLT	2
43	8-102-010012	U BOLT	2

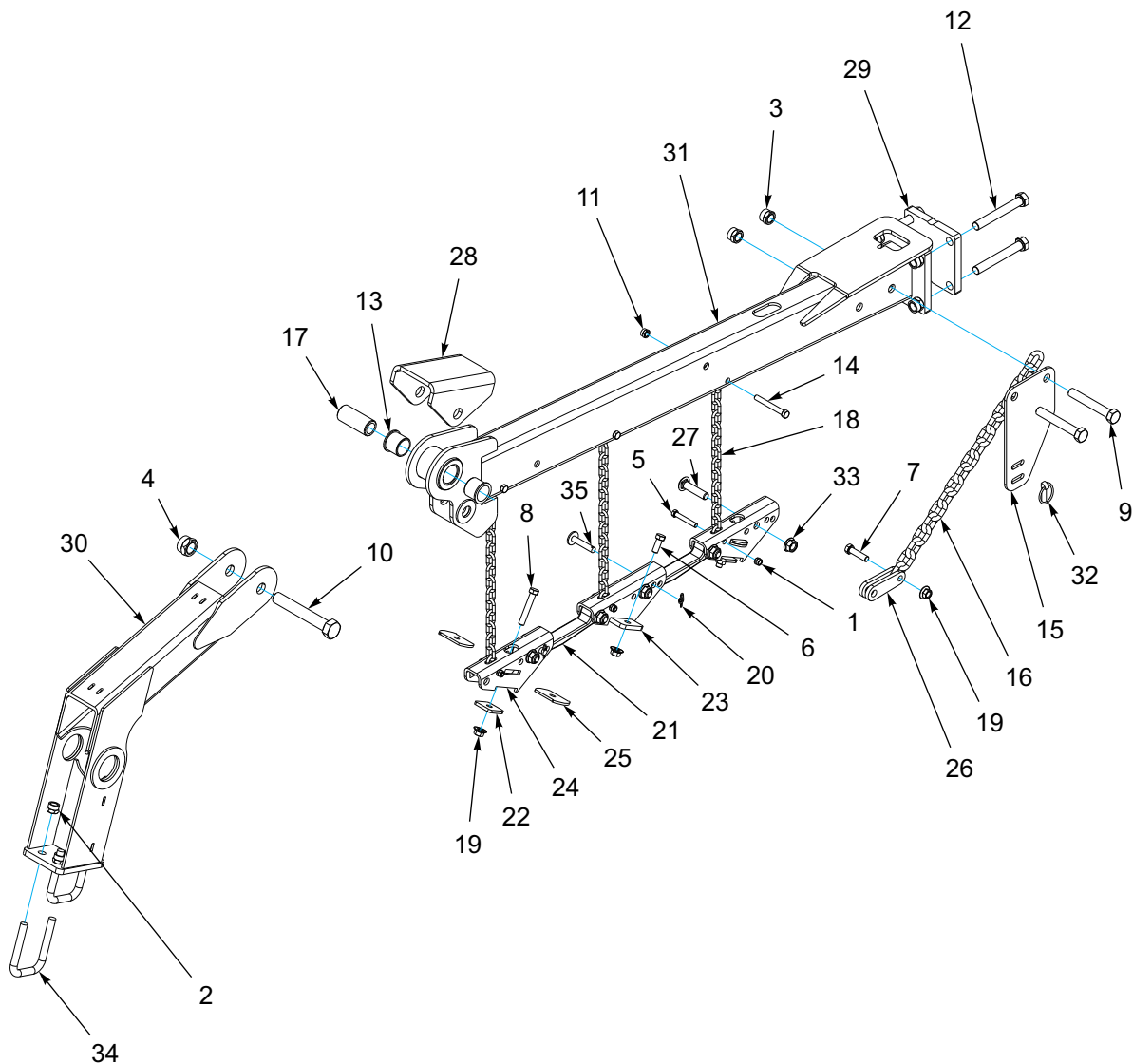


Figure 1-40: Arm Assembly - Spike & Reel w/o Spring

ARM ASSEMBLY - SPIKE & REEL w/o SPRING

ITEM	PART NO.	DESCRIPTION	QTY.
--	203090	ARM ASSY 3 RSD W/O SPRING	
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	6
4	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	1
5	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	3
6	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	2
7	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	1
8	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	2
9	1-654-010061-15	SCREW,HX CP 3/4-10UNCX5 GR5	2
10	1-654-010125-18	SCREW HEX CAP,1-8UNCX6-1/2GR8	1
11	101988	NUT,HEXSLF-LKG 7/16-14 GRB	3
12	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	4
13	140599	BEARING, FLANGE 1-1/2	2
14	141808	SCREW HX CP7/16-14UNCX3-1/2G5	3
15	166171	HOSE ASSY 3/8X114 #8JIC SWIV	1
16	166242	CHAIN, PULL 3/8	1
17	168739	BUSHING PIVOT 1-1/2 X 3-7/16	1
18	168764	CHAIN 17 LINK 1/4	3
19	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	5
20	172673	WRAP AROUND LOCKING COTTER	2
21	185697	LINK, HARROW BAR	2
22	186193	CLAMP PLATE, SPIKE BAR	2
23	186200	MOUNT, HARROW BAR W/TABS	1
24	186204	MOUNT, HARROW BAR	2
25	186205	PLATE, BAR CLAMP	4
26	186210	CONNECTOR, PULL CHAIN	2
27	187517	SCREW RDHD SHT SQNK5/8-11X2.75	5
28	191459	STOP, HARROW ARM	1
29	192807	MOUNTING PLATE, HARROW	1
30	199359	ARM WLDMT REEL	1
31	199392	ARM WLDMT HARROW	1
32	2-557-010009	PIN LYNCH	1
33	29SFFL 5811	NUT, FLANGE HEAD LOCK, 5/8-11 UNC	5
34	8-102-010012	U BOLT	2
35	8C520	CLEVIS PIN	2

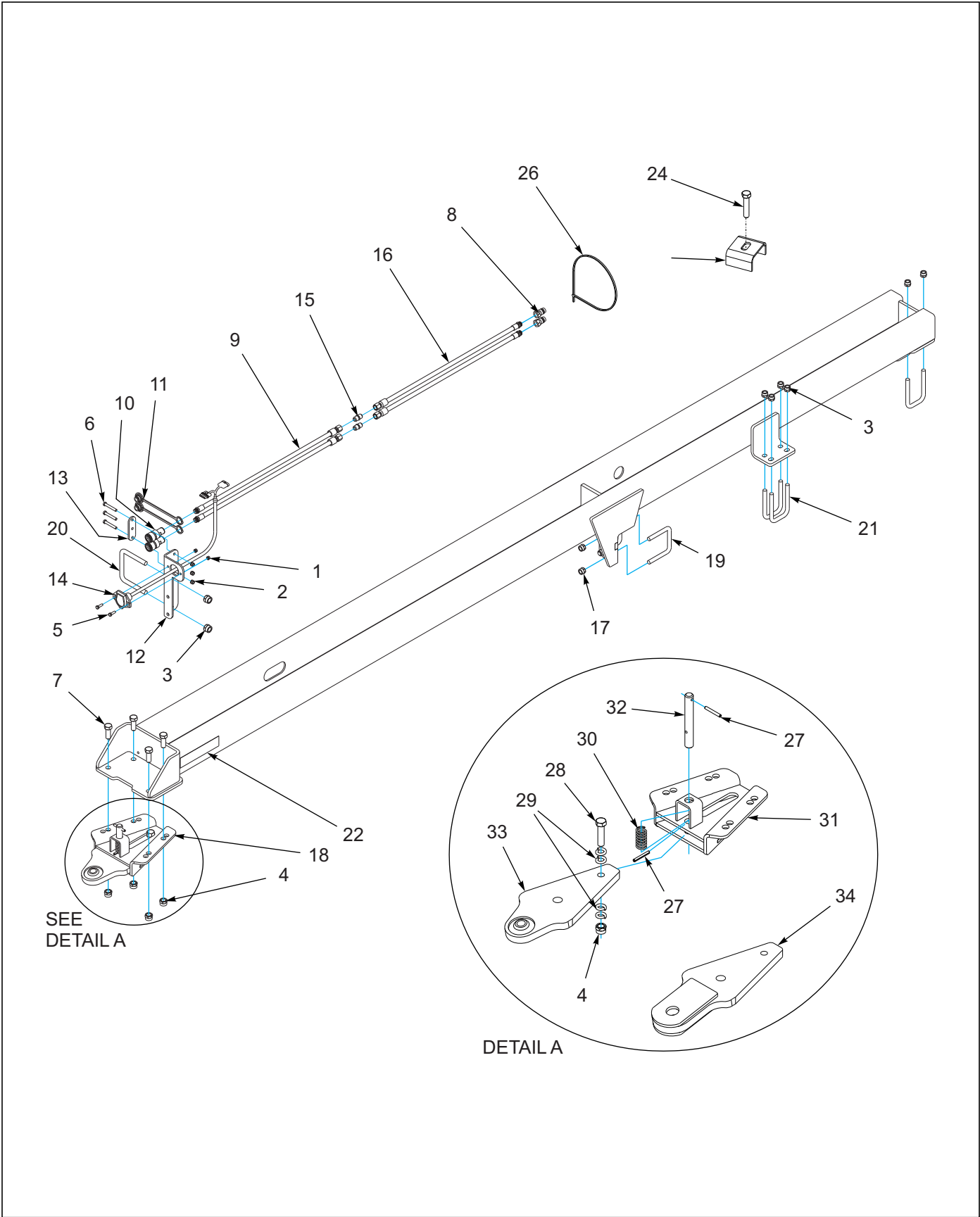


Figure 1-41: Rear Tow Hitch Assembly (20' - 28' Models)

REAR TOW HITCH ASSEMBLY (20' - 28' MODELS)

ITEM	PART NO.	DESCRIPTION	QTY.
--	168809	REAR TOW HITCH ASSEMBLY (20' - 28')	
1	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	3
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
4	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	6
5	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
6	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	3
7	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
8	141828	COUPLER, MALE 3/4-16	2
9	141865	HOSE ASSEMBLY 3/8 X 204	2
10	142668	COUPLER, FEMALE 3/4-16	2
11	142669	PLUG, COUPLER DUST	1
12	142670	BRACKET, COUPLER MOUNT	1
13	142671	PLATE, COUPLER	1
14	143871	HARNESS, TANDEM ADAPTER	1
15	148338	FITTING, UNION	2
16	156944	HOSE ASSEMBLY 3/8 X 184	2
17	168810	REAR TOW HITCH	1
18	168767	HITCH ASSEMBLY, REAR TOW (INCL. ITEMS 4, 27-33)	1
18	191456	HITCH ASSY, REAR TOW 1-1/2HOLE (INCL. ITEMS 4, 27-32, 34)	1
19	2-102-010004	U-BOLT, STD GAUGE	4
20	2-102-010039	U-BOLT, DISC BEARING BRACKET	1
21	2-102-010054	U-BOLT	8
22	528934	REFLECTOR, YELLOW 2 X 9	2
23	1-822-010001	TRIM, 3/8 BLK FINE PEBBLE (NOT SHOWN)	AR
24	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	2
25	2-181-010001	HOSE CLAMP	2
26	105874	TIE STRAP, PLASTIC 21.5-24 X .301	AR
27	1-647-010004240	PIN, SPRING, SLOTTED, 5/16X2-1/2	2
28	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	1
29	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4
30	162191	SPRING, COMP 1.218 X 2.5	1
31	168768	MOUNT WLDMT REAR TOW HITCH	1
32	168773	PIN REAR TOW HITCH	1
33	168771	HITCH WLDMT REAR TOW	1
34	183952	HITCH WLDMT REAR TOW RIGID	1



REAR TOW HITCH ASSEMBLY (30' - 34' MODELS)

ITEM	PART NO.	DESCRIPTION	QTY.
--	168782	REAR TOW HITCH ASSEMBLY (30' - 34')	
1	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	3
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
4	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	6
5	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
6	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	3
7	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
8	141828	COUPLER, MALE 3/4-16	2
9	141865	HOSE ASSEMBLY 3/8 X 204	2
10	142668	COUPLER, FEMALE 3/4-16	2
11	142669	PLUG, COUPLER DUST	1
12	142670	BRACKET, COUPLER MOUNT	1
13	142671	PLATE, COUPLER	1
14	143871	HARNESS, TANDEM ADAPTER	1
15	148338	FITTING, UNION	2
16	156944	HOSE ASSEMBLY 3/8 X 184	2
17	168766	REAR TOW HITCH	1
18	168767	HITCH ASSEMBLY, REAR TOW (INCL. ITEMS 4, 27-33)	1
18	191456	HITCH ASSY, REAR TOW 1-1/2HOLE (INCL. ITEMS 4, 27-32, 34)	1
19	2-102-010004	U-BOLT, STD GAUGE	4
20	2-102-010039	U-BOLT, DISC BEARING BRACKET	1
21	2-102-010054	U-BOLT	8
22	528934	REFLECTOR, YELLOW 2 X 9	2
23	1-822-010001	TRIM, 3/8 BLK FINE PEBBLE (NOT SHOWN)	AR
24	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	2
25	2-181-010001	HOSE CLAMP	2
26	105874	TIE STRAP, PLASTIC 21.5-24 X .301 (NOT SHOWN)	AR
27	1-647-010004240	PIN, SPRING, SLOTTED, 5/16X2-1/2	2
28	1-654-010061-09	SCREW HX CP 3/4-10UNCX3 GR5	1
29	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4
30	162191	SPRING, COMP 1.218 X 2.5	1
31	168768	MOUNT WLDMT REAR TOW HITCH	1
32	168773	PIN REAR TOW HITCH	1
33	168771	HITCH WLDMT REAR TOW	1
34	183952	HITCH WLDMT REAR TOW RIGID	1

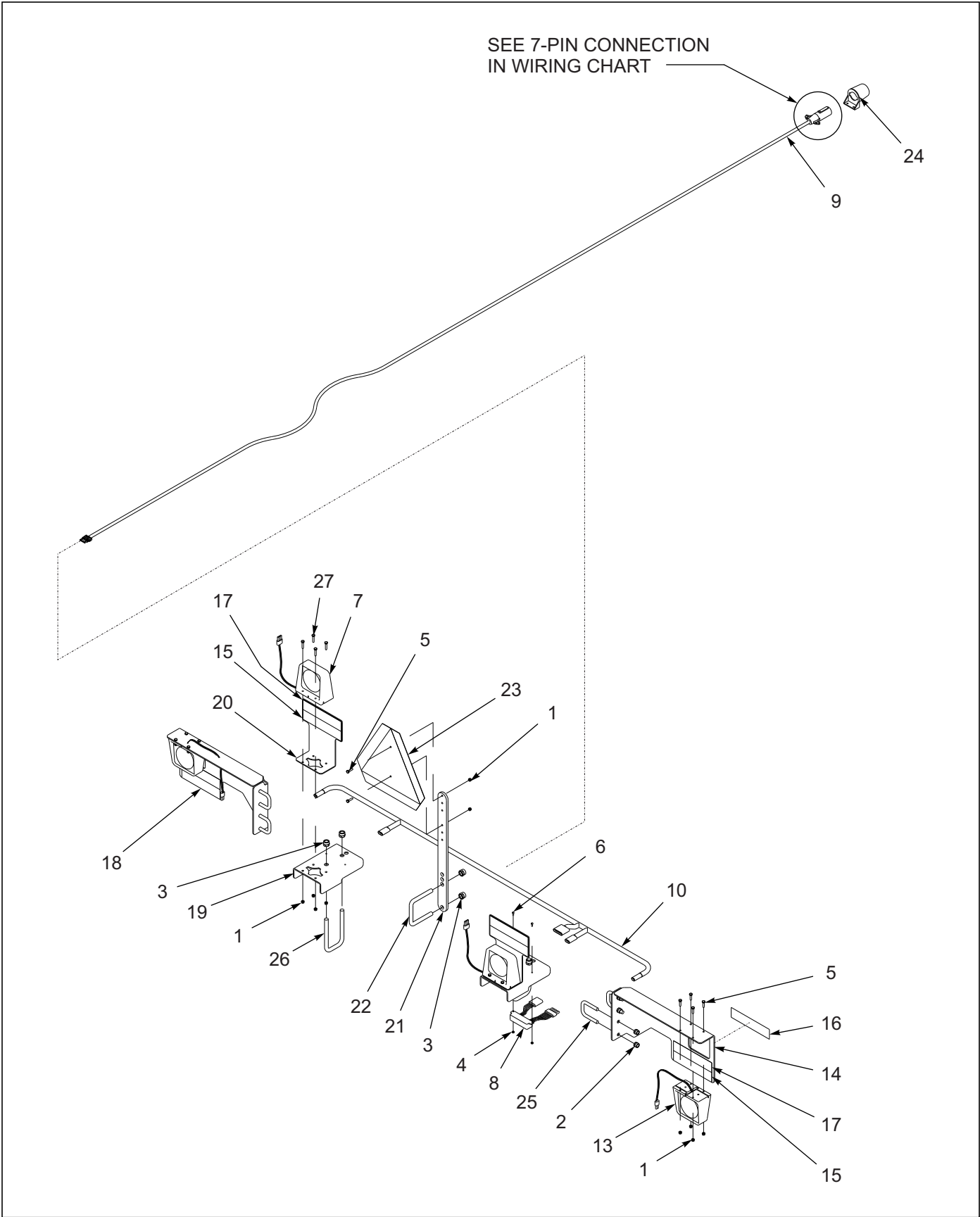
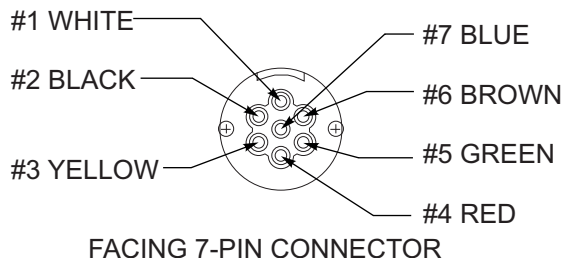


Figure 1-43: Electrical Assembly (Prior to August, 2013) (1 of 2)

NOTE: IF REPAIRING OR REPLACING THE 7 PIN CONNECTOR, MATCH THE LETTERS AT THE BACK OF THE HARNESS TO THE 7 PIN CONNECTOR AS SHOWN. THE COLOR OF THE WIRE JACKET DOES NOT NECESSARILY MATCH THE COLOR MARKING OF THE 7 PIN CONNECTOR.



WIRING CHART	
7-PIN CONNECTION	4-PIN TOWER
GRND. 1	D
YEL. 3	B
GRN. 5	A
BRN. 6	C

Figure 1-44: Electrical Assembly (Prior to August, 2013) (2 of 2)

ELECTRICAL ASSEMBLY (PRIOR TO AUGUST, 2013)

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	10
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	6
4	1-512-010007-02	NUT, HEX 8-32	2
5	1-654-010047-06	SCREW HEX CAP 1/4-20 X 1 GR5	2
6	107-0762	SCREW, SLOT PAN HEAD #8-32 X 1/2	2
7	141576	LAMP, RED W/ BRAKE	2
8	141578	LIGHTING MODULE, ENHANCED	1
9	141579	HARNESS, MAIN WARNING LIGHTS	1
10	141580	HARNESS, REAR WARNING LIGHTS	1
11	164136	LIGHT ASSEMBLY, RIGHT (INCL ITEMS 1, 5, 13-17)	1
12	164137	LIGHT ASSEMBLY, LEFT (INCL ITEMS 1, 5, 13, 15-18)	1
13	141577	LAMP, AMBER SINGLE	1
14	164134	MOUNT, LIGHT RIGHT	1
15	528933	REFLECTOR, RED	1
16	528934	REFLECTOR, YELLOW	1
17	528938	STRIPE, ORANGE	1
18	164135	MOUNT, LIGHT LEFT	1
19	164138	MOUNT, LIGHT TAIL	2
20	164140	REFLECTOR ASSEMBLY (INCL. ITEMS 15 & 17)	2
21	164142	BRACKET, SMV MOUNTING	1
22	2-102-010004	U-BOLT	1
23	70260977	SMV EMBLEM	1
24	2-368-010287	HARNESS, STOR-A-WAY	1
25	8-102-010019	U-BOLT	4
26	8-102-010043	U-BOLT	2
27	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	8
28	105874	TIE STRAP, PLASTIC 21.5 - 24 X .301 (NOT SHOWN)	AR

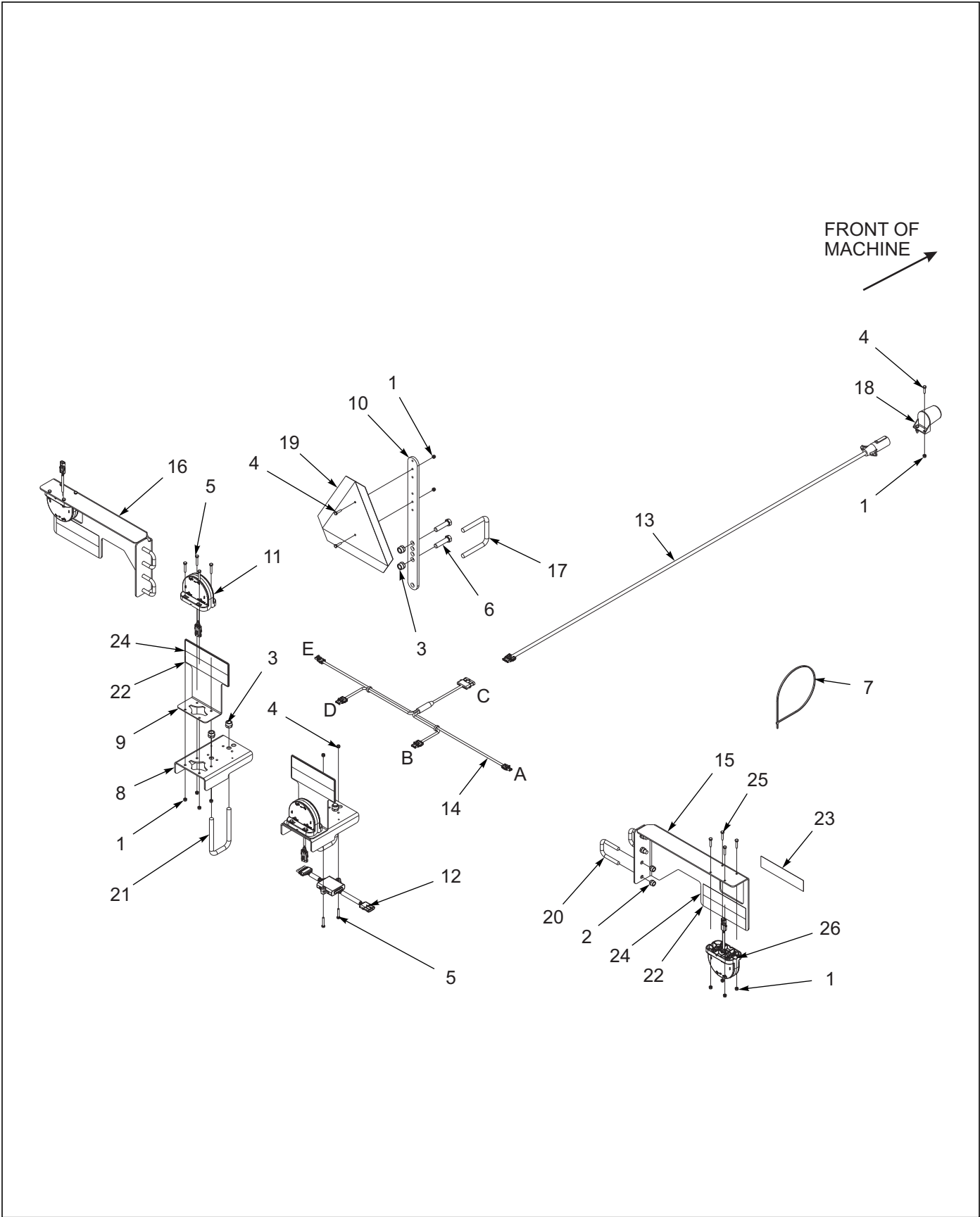


Figure 1-45: Electrical Assembly (After August, 2013) (1 of 2)

WIRE DESIGNATIONS FOR MAIN HARNESS				WIRE DESIGNATIONS FOR REAR HARNESS					
7-PIN CONN	4-PIN TOWER	CIRCUIT	WIRE COLOR	CONNECTORS	A	B	C	D	E
1	D	GROUND	GROUND		2-PIN TOWER	3-PIN TOWER	6-PIN SHROUD	3-PIN TOWER	2-PIN TOWER
2		WORK LAMPS	BLACK	BLK LEFT TURN			A	C	
3	B	LEFT FLASHING & TURN	YELLOW	WHT GROUND	A	A	B	A	A
4		STOP LAMPS	RED	BRN TAIL LIGHT		B	C	B	
5	A	RIGHT FLASHING & TURN	GREEN	YEL LEFT TURN			D		B
6	C	TAIL LAMPS	BROWN	GRN RIGHT TURN	B		E		
7		SWITCHED POWER (12V)	BLUE	RED RIGHT TURN		C	F		

Figure 1-46: Electrical Assembly (After August, 2013) (2 of 2)

ELECTRICAL ASSEMBLY (AFTER AUGUST, 2013)

ITEM	PART NO.	DESCRIPTION	QTY.
	176603	LIGHT KIT	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	20
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	6
4	1-654-010047-06	SCREW HEX CAP 1/4-20 X 1 GR5	2
5	1-654-010047-08	SCREW, HEX HEAD CAP 1/4-20 X 1-1/2 GR5	10
6	1-654-010059-07	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR5	1
7	105874	TIE SELF LOCKING 19"	15
8	164138	MOUNT, TAIL LIGHT	2
9	164140	REFLECTOR ASSEMBLY	2
10	164142	BRACKET MOUNTING, SMV	1
11	174435	LAMP, AG RED SINGLE LED	2
12	174437	MODULE, AG FLASHER CONTROL	1
13	174438	HARNESS, MAIN WARNING LIGHT	1
14	174439	HARNESS, REAR WARNING LIGHT	1
15	176601	LIGHT ASSEMBLY, RT LED (INCL. ITEMS 1, 22-26)	1
16	176602	LIGHT ASSEMBLY, LT LED (INCL. ITEMS 1, 22-26)	1
17	2-102-010004	U-BOLT	1
18	2-368-010287	HARNESS, STOR-AWAY	1
19	70260977	SMV EMBLEM	1
20	8-102-010019	U-BOLT	4
21	8-102-010043	U-BOLT	2
22	528933	REFLECTOR, RED	2
23	528934	REFLECTOR, YELLOW	2
24	528938	STRIPE, ORANGE	2
25	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	8
26	174436	LAMP, AG AMBER SINGLE LED	2

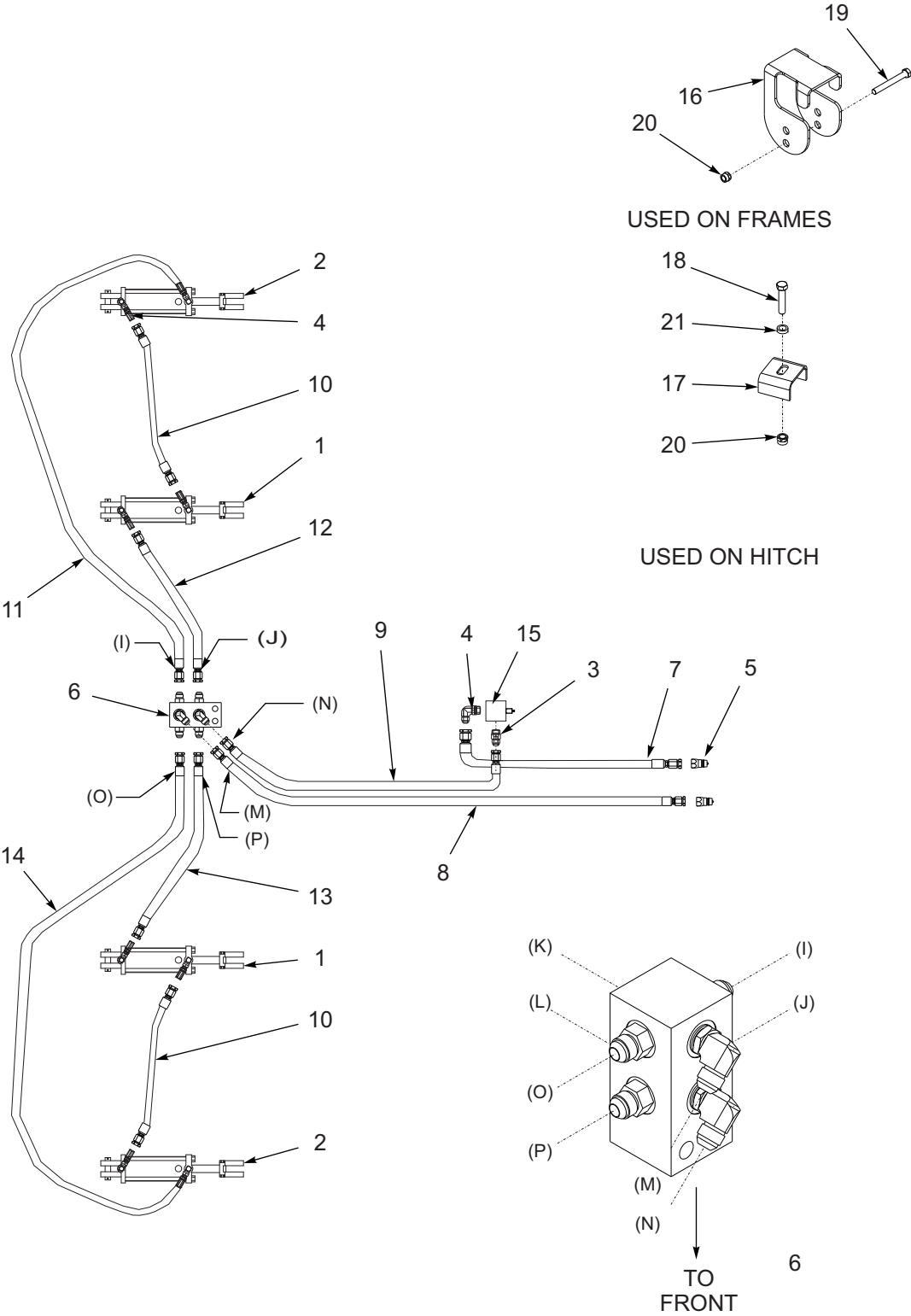


Figure 1-47: Lift Hydraulic Assembly (9630-20 Models)

LIFT HYDRAULIC ASSEMBLY (9630-20 MODEL)

ITEM	PART NO.	DESCRIPTION	QTY.
1	140470	CYLINDER, HYDRAULIC 4 X 10 REPHASE (SEE PAGE 1-95)	2
2	140471	CYLINDER, HYDRAULIC 3-3/4 X 10 REPHASE (SEE PAGE 1-94)	2
3	202702-8-8S	ADAPTER	1
4	2062-8-8S	ADAPTER, 90	9
5	141828	COUPLER, MALE 3/4-16	2
6	168835	MANIFOLD ASSEMBLY, LIFT (SEE PAGE 1-92)	1
7	156964	HOSE ASSEMBLY 1/2 X 204	1
8	168892	HOSE ASSEMBLY 1/2 X 271	1
9	51039-23	HOSE ASSEMBLY 1/2 X 106	1
10	116491	HOSE ASSEMBLY 3/8 X 96	2
11	116435	HOSE ASSEMBLY 3/8 X 146	1
12	1-397-010369054	HOSE ASSEMBLY 3/8 X 54	1
13	117259	HOSE ASSEMBLY 3/8 X 48	1
14	141881	HOSE ASSEMBLY 3/8 X 136	1
15	140693	VALVE, LIMIT	1
16	164295	HOSE CLAMP	8
17	2-181-010001	HOSE CLAMP	4
18	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
19	1-654-010051-12	SCREW, HEX HEAD CAP 3/8-16 X 2-3/4 GR5	8
20	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	10
21	1-861-010032-11	WASHER, FLAT 3/8W	2

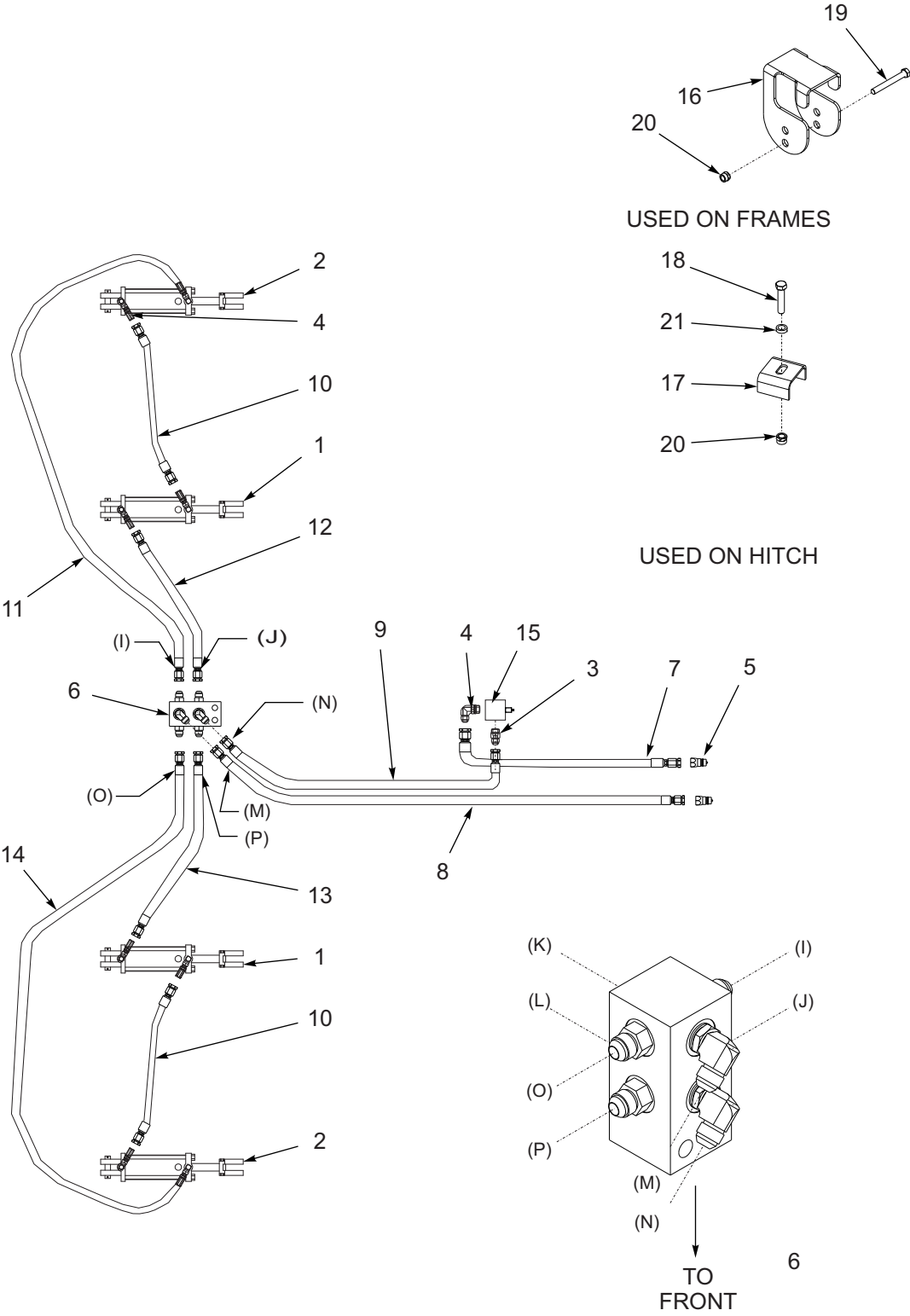


Figure 1-48: Lift Hydraulic Assembly (9630-24 Model)

LIFT HYDRAULIC ASSEMBLY (9630-24 MODEL)

ITEM	PART NO.	DESCRIPTION	QTY.
1	140470	CYLINDER, HYDRAULIC 4 X 10 REPHASE (SEE PAGE 1-95)	2
2	140471	CYLINDER, HYDRAULIC 3-3/4 X 10 REPHASE (SEE PAGE 1-94)	2
3	202702-8-8S	ADAPTER	1
4	2062-8-8S	ADAPTER, 90	9
5	141828	COUPLER, MALE 3/4-16	2
6	168835	MANIFOLD ASSEMBLY, LIFT (SEE PAGE 1-92)	1
7	156964	HOSE ASSEMBLY 1/2 X 204	1
8	168892	HOSE ASSEMBLY 1/2 X 271	1
9	51039-23	HOSE ASSEMBLY 1/2 X 106	1
10	116434	HOSE ASSEMBLY 3/8 X 120	2
11	122911	HOSE ASSEMBLY 3/8 X 168	1
12	1-397-010369054	HOSE ASSEMBLY 3/8 X 54	1
13	117259	HOSE ASSEMBLY 3/8 X 48	1
14	141889	HOSE ASSEMBLY 3/8 X 159	1
15	140693	VALVE, LIMIT	1
16	164295	HOSE CLAMP	8
17	2-181-010001	HOSE CLAMP	4
18	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
19	1-654-010051-12	SCREW, HEX HEAD CAP 3/8-16 X 2-3/4 GR5	8
20	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	10
21	1-861-010032-11	WASHER, FLAT 3/8W	2

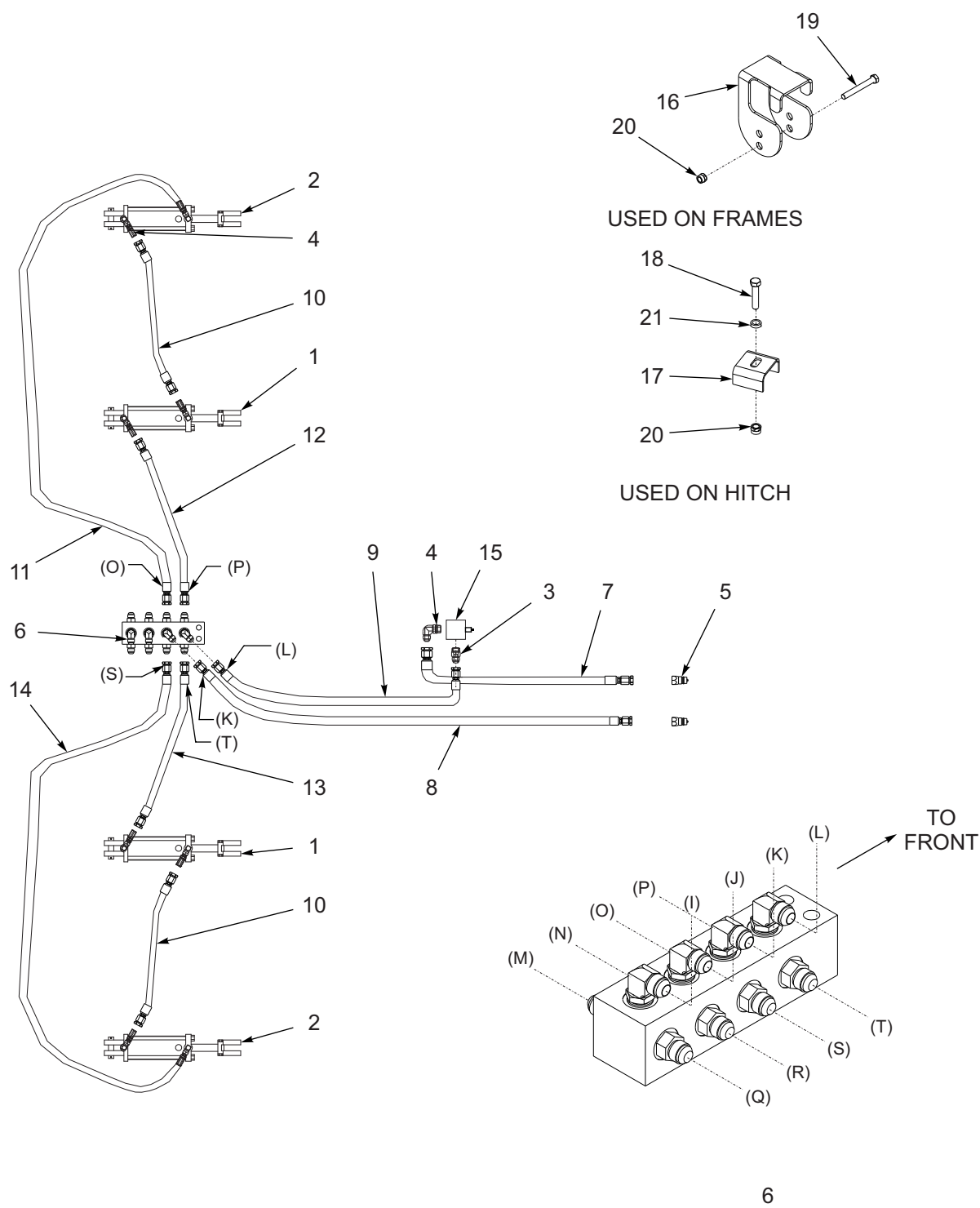


Figure 1-49: Lift Hydraulic Assembly (9630-28 Model)

LIFT HYDRAULIC ASSEMBLY (9630-28 MODEL)

ITEM	PART NO.	DESCRIPTION	QTY.
1	140470	CYLINDER, HYDRAULIC 4 X 10 REPHASE (SEE PAGE 1-95)	2
2	140471	CYLINDER, HYDRAULIC 3-3/4 X 10 REPHASE (SEE PAGE 1-94)	2
3	202702-8-8S	ADAPTER	1
4	2062-8-8S	ADAPTER, 90	9
5	141828	COUPLER, MALE 3/4-16	2
6	166252	MANIFOLD ASSEMBLY, LIFT/FOLD (SEE PAGE 1-91)	1
7	156964	HOSE ASSEMBLY 1/2 X 204	1
8	168892	HOSE ASSEMBLY 1/2 X 271	1
9	51039-23	HOSE ASSEMBLY 1/2 X 106	1
10	116435	HOSE ASSEMBLY 3/8 X 146	2
11	141890	HOSE ASSEMBLY 3/8 X 192	1
12	1-397-010369054	HOSE ASSEMBLY 3/8 X 54	1
13	117259	HOSE ASSEMBLY 3/8 X 48	1
14	71508983	HOSE ASSEMBLY 3/8 X 182	1
15	140693	VALVE, LIMIT	1
16	164295	HOSE CLAMP	8
17	2-181-010001	HOSE CLAMP	4
18	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
19	1-654-010051-12	SCREW, HEX HEAD CAP 3/8-16 X 2-3/4 GR5	8
20	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	10
21	1-861-010032-11	WASHER, FLAT 3/8W	2

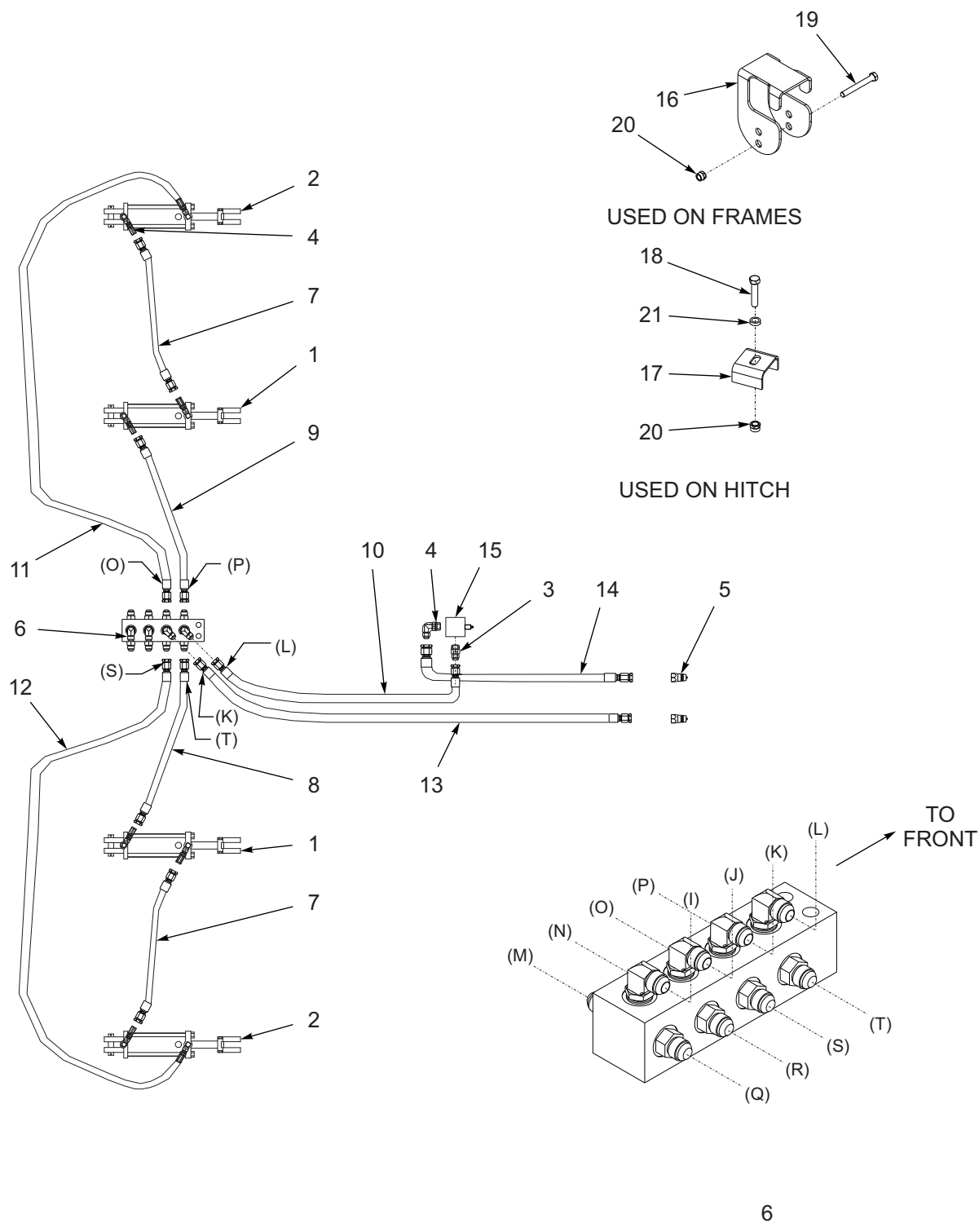


Figure 1-50: Lift Hydraulic Assembly (9630-30 and 9630-34 Models)

LIFT HYDRAULIC ASSEMBLY (9630-30 & 9630-34 MODELS)

ITEM	PART NO.	DESCRIPTION	QTY.
1	140470	CYLINDER, HYDRAULIC 4 X 10 REPHASE (SEE PAGE 1-95)	2
2	140471	CYLINDER, HYDRAULIC 3-3/4 X 10 REPHASE (SEE PAGE 1-94)	2
3	202702-8-8S	ADAPTER	1
4	2062-8-8S	ADAPTER, 90	9
5	141828	COUPLER, MALE 3/4-16	2
6	166252	MANIFOLD ASSEMBLY, LIFT/FOLD (SEE PAGE 1-91)	1
7	116435	HOSE ASSEMBLY 3/8 X 146	2
8	123547	HOSE ASSEMBLY 3/8 X 56	1
9	153843	HOSE ASSEMBLY 3/8 X 67	1
10	164303	HOSE ASSEMBLY 1/2 X 138	1
11	141882	HOSE ASSEMBLY 3/8 X 206	1
12	141883	HOSE ASSEMBLY 3/8 X 190	1
13	166283	HOSE ASSEMBLY 1/2 X 285	1
14	166282	HOSE ASSEMBLY 1/2 X 240	1
15	140693	VALVE, LIMIT	1
16	164295	HOSE CLAMP	8
17	2-181-010001	HOSE CLAMP	4
18	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
19	1-654-010051-12	SCREW, HEX HEAD CAP 3/8-16 X 2-3/4 GR5	8
20	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	10
21	1-861-010032-11	WASHER, FLAT 3/8W	2

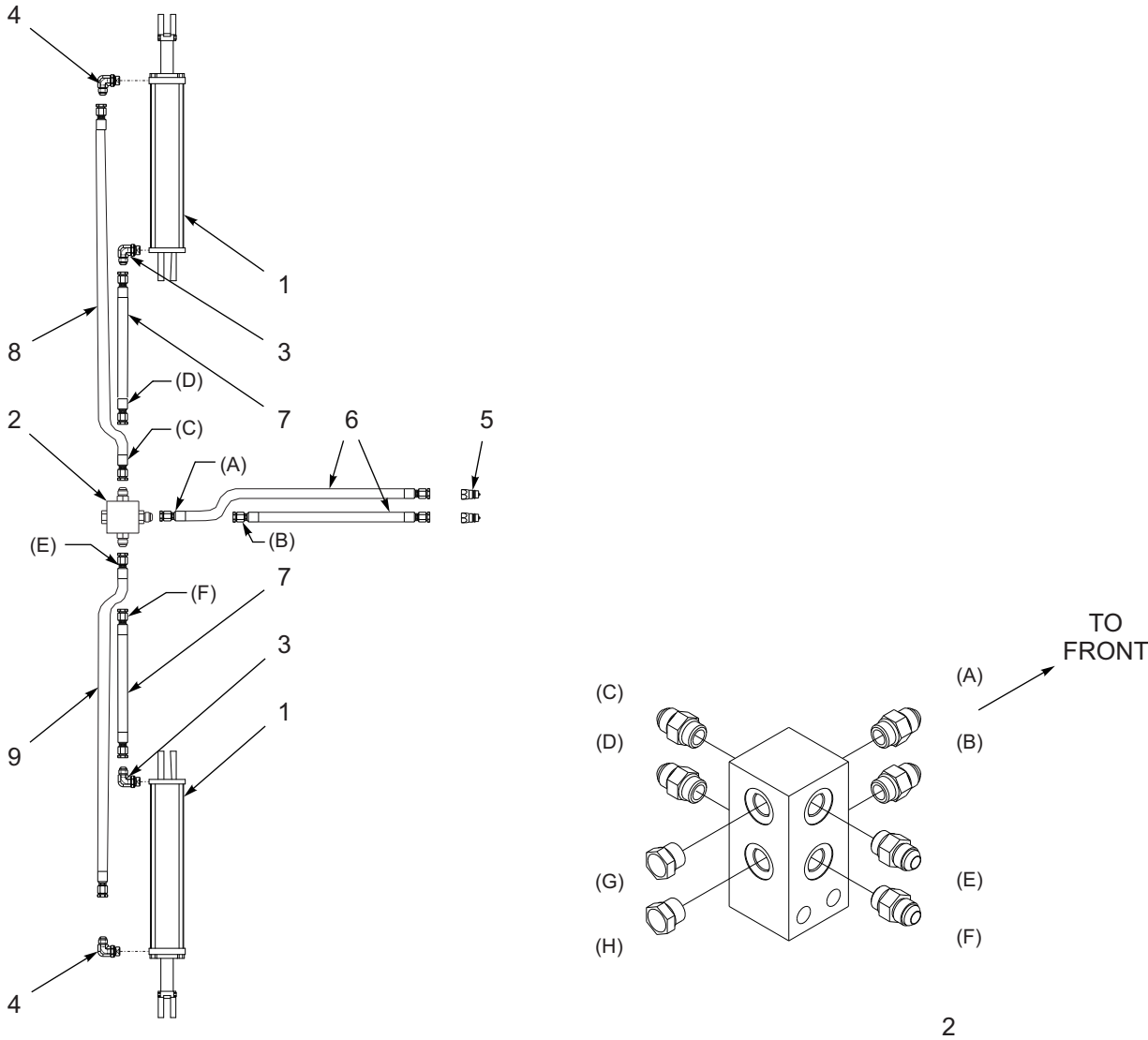


Figure 1-51: Fold Hydraulic Assembly (9630-20 and 9630-24 Models)

FOLD HYDRAULIC ASSEMBLY (9630-20 & 9630-24 MODELS)

ITEM	PART NO.	DESCRIPTION	QTY.
--	144117	CYLINDER ASSY 4X30 W/FITTINGS (NOT SHOWN) (INCL. ITEMS 1, 4-5)	2
1	140472	CYLINDER, HYDRAULIC 4 X 30 (SEE PAGE 1-96)	2
2	168836	MANIFOLD ASSEMBLY, FOLD (SEE PAGE 1-93)	1
3	2062-8-8S	ADAPTER, 90	2
4	141826	ELBOW 90 W/ 1/16 RESTRICTOR (AFTER 7/28/2016)	2
5	141828	COUPLER, MALE 3/4-16	2
6	141861	HOSE ASSEMBLY 3/8 X 196	2
7	137602	HOSE ASSEMBLY 3/8 X 27	2
8	116432	HOSE ASSEMBLY 3/8 X 60	1
9	71508985	HOSE ASSEMBLY 3/8 X 30	1
10	164295	HOSE CLAMP (NOT SHOWN)	AR
11	2-181-010001	HOSE CLAMP (NOT SHOWN)	AR

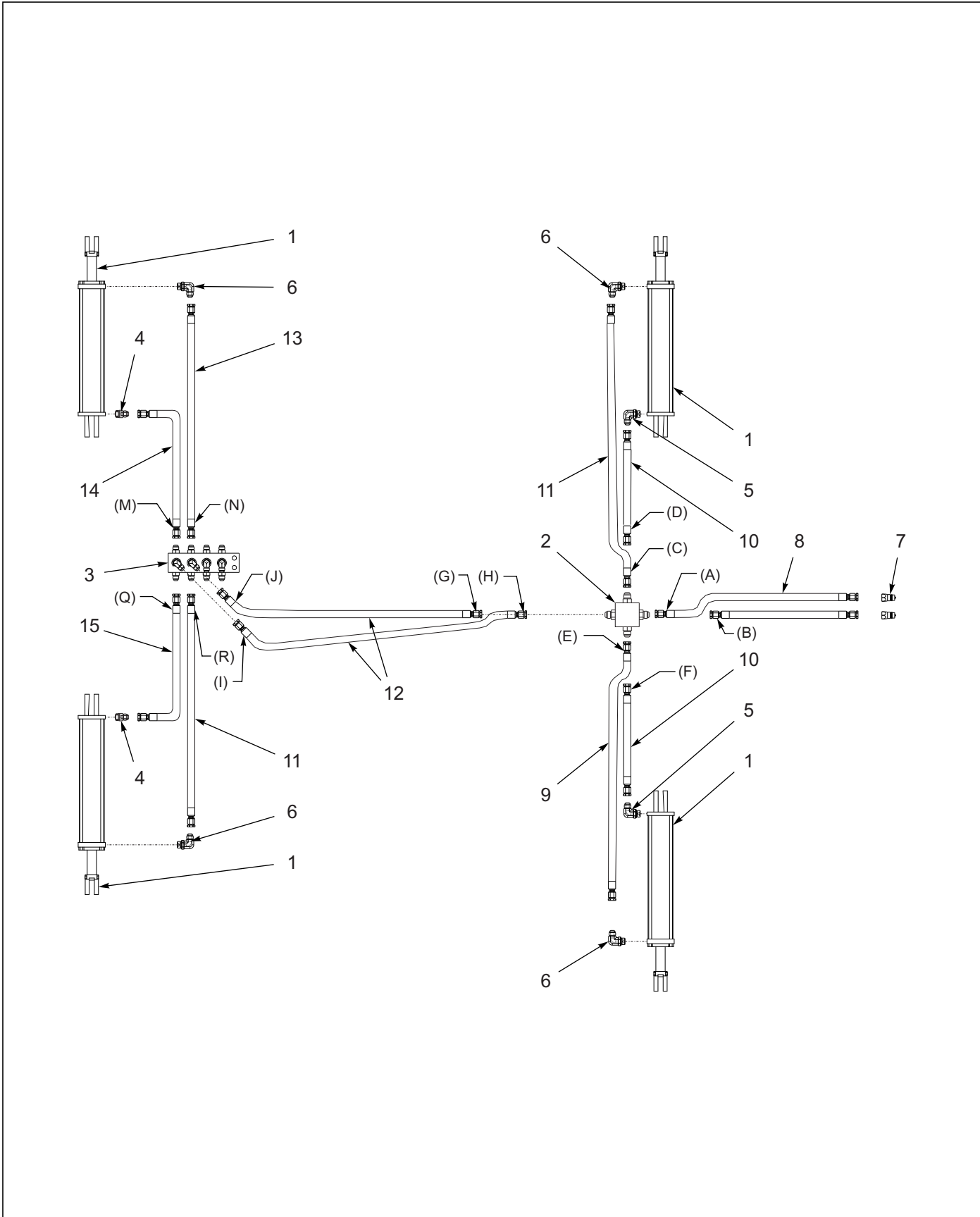


Figure 1-52: Fold Hydraulic Assembly (9630-28 Model)

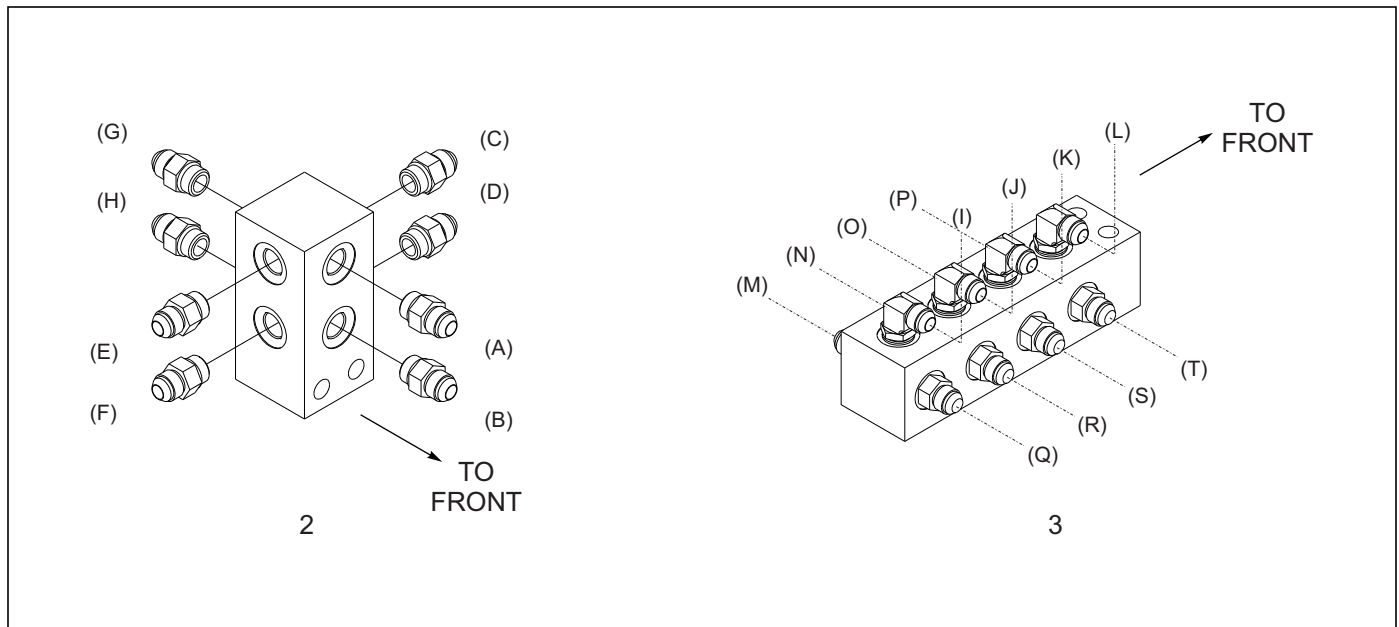


Figure 1-53: Fold Hydraulic Assembly (9630-28 Model)

FOLD HYDRAULIC ASSEMBLY (9630-28 MODEL)

ITEM	PART NO.	DESCRIPTION	QTY.
--	144117	CYLINDER ASSY 4X30 W/FITTINGS (INCI. ITEMS 1, 4-5)	2
1	140472	CYLINDER, HYDRAULIC 4 X 30 (SEE PAGE 1-96)	4
2	166253	MANIFOLD ASSEMBLY, FOLD (SEE PAGE 1-90)	1
3	166252	MANIFOLD ASSEMBLY, LIFT/FOLD (SEE PAGE 1-91)	1
4	202702-8-8S	ADAPTER	2
5	2062-8-8S	ADAPTER, 90	2
6	141826	ELBOW 90 W/ 1/16 RESTRICTOR (AFTER 7/28/2016)	4
7	141828	COUPLER, MALE 3/4-16	2
8	141861	HOSE ASSEMBLY 3/8 X 196	2
9	71508985	HOSE ASSEMBLY 3/8 X 30	1
10	137602	HOSE ASSEMBLY 3/8 X 27	2
11	71508992	HOSE ASSEMBLY 3/8 X 50	2
12	71508988	HOSE ASSEMBLY 3/8 X 80	2
13	123547	HOSE ASSEMBLY 3/8 X 56	1
14	147584	HOSE ASSEMBLY 3/8 X 40	1
15	153842	HOSE ASSEMBLY 3/8 X 33	1
16	164295	HOSE CLAMP (NOT SHOWN)	AR
17	2-181-010001	HOSE CLAMP (NOT SHOWN)	AR

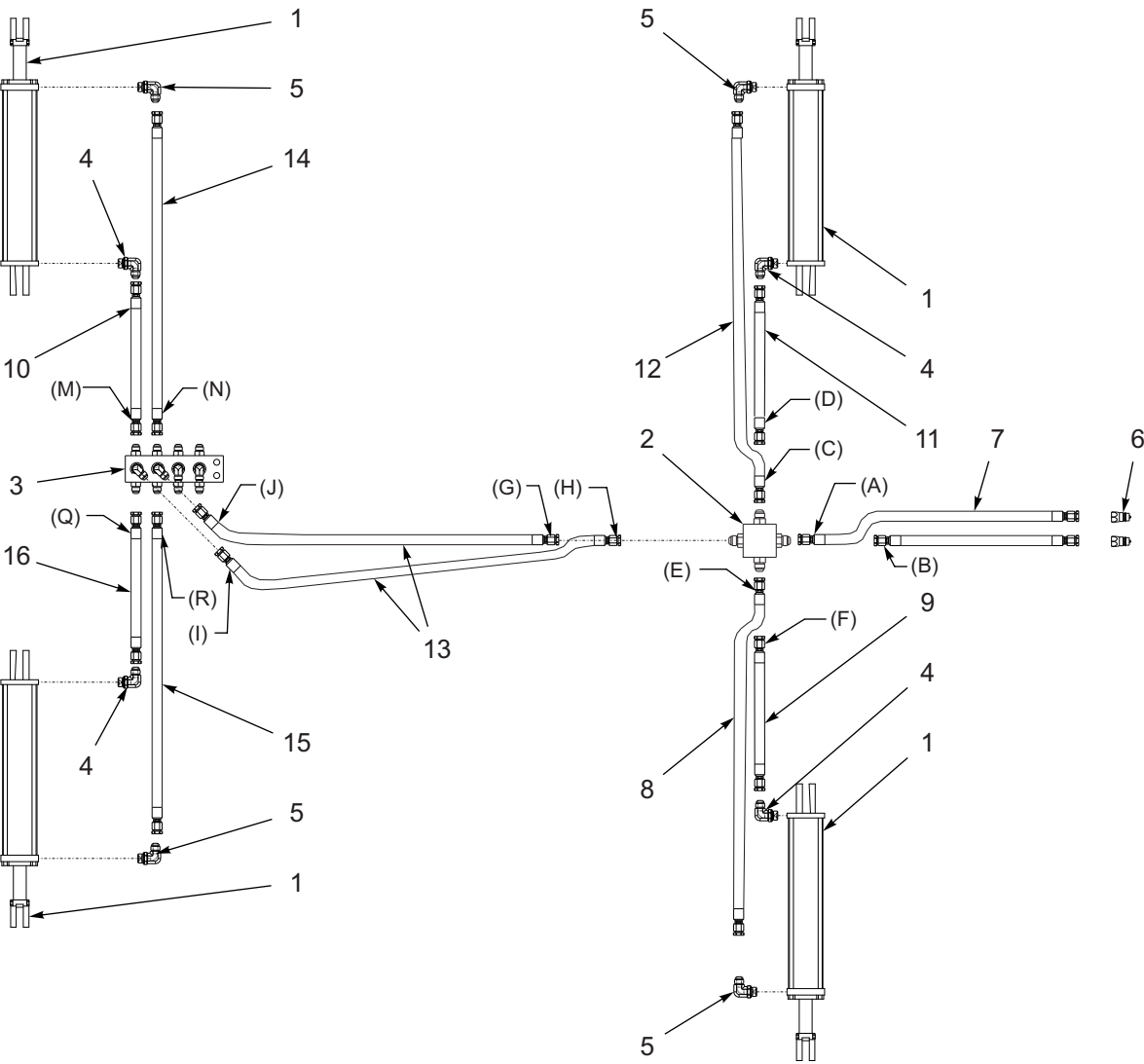


Figure 1-54: Fold Hydraulic Assembly (9630-30 & 9630-34 Models)

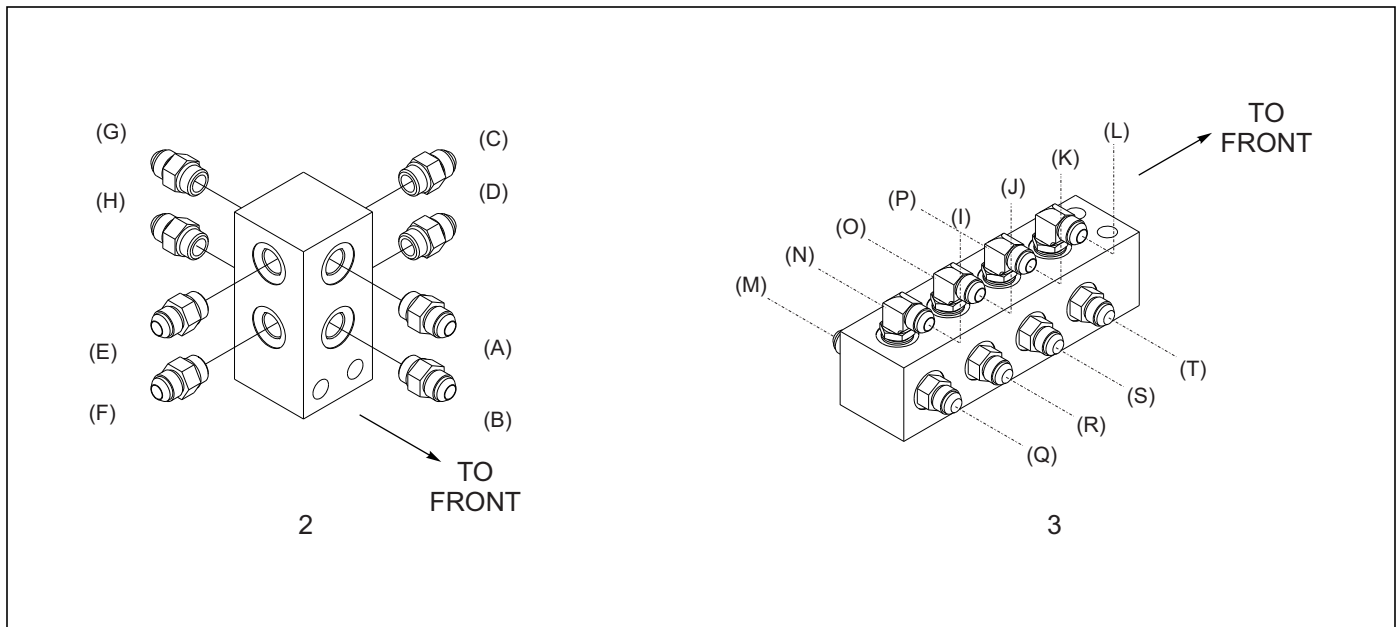


Figure 1-55: Fold Hydraulic Assembly (9630-30 & 9630-34 Models)

FOLD HYDRAULIC ASSEMBLY (9630-30 & 9630-34 MODELS)

ITEM	PART NO.	DESCRIPTION	QTY.
--	167618	CYL ASM, 4-1/2 X 30 W/FITTINGS (INCI. ITEMS 1, 4-5)	4
1	167575	CYLINDER, HYDRAULIC 4-1/2 X 30 (AFTER 7/28/2016) (SEE PAGE 1-96)	4
2	166253	MANIFOLD ASSEMBLY, FOLD (SEE PAGE 1-90)	1
3	166252	MANIFOLD ASSEMBLY, LIFT/FOLD (SEE PAGE 1-91)	1
4	2062-8-8S	ADAPTER, 90	4
5	141826	ELBOW 90 W/ 1/16 RESTRICTOR (AFTER 7/28/2016)	4
6	141828	COUPLER, MALE 3/4-16	2
7	141861	HOSE ASSEMBLY 3/8 X 196	2
8	71508985	HOSE ASSEMBLY 3/8 X 30	1
9	147582	HOSE ASSEMBLY 3/8 X 24	1
10	117259	HOSE ASSEMBLY 3/8 X 48	1
11	71508992	HOSE ASSEMBLY 3/8 X 50	1
12	71508987	HOSE ASSEMBLY 3/8 X 86	1
13	71508988	HOSE ASSEMBLY 3/8 X 80	2
14	116490	HOSE ASSEMBLY 3/8 X 78	1
15	153843	HOSE ASSEMBLY 3/8 X 67	1
16	1-397-010369036	HOSE ASSEMBLY 3/8 X 36	1
17	164295	HOSE CLAMP (NOT SHOWN)	10
18	2-181-010001	HOSE CLAMP (NOT SHOWN)	2

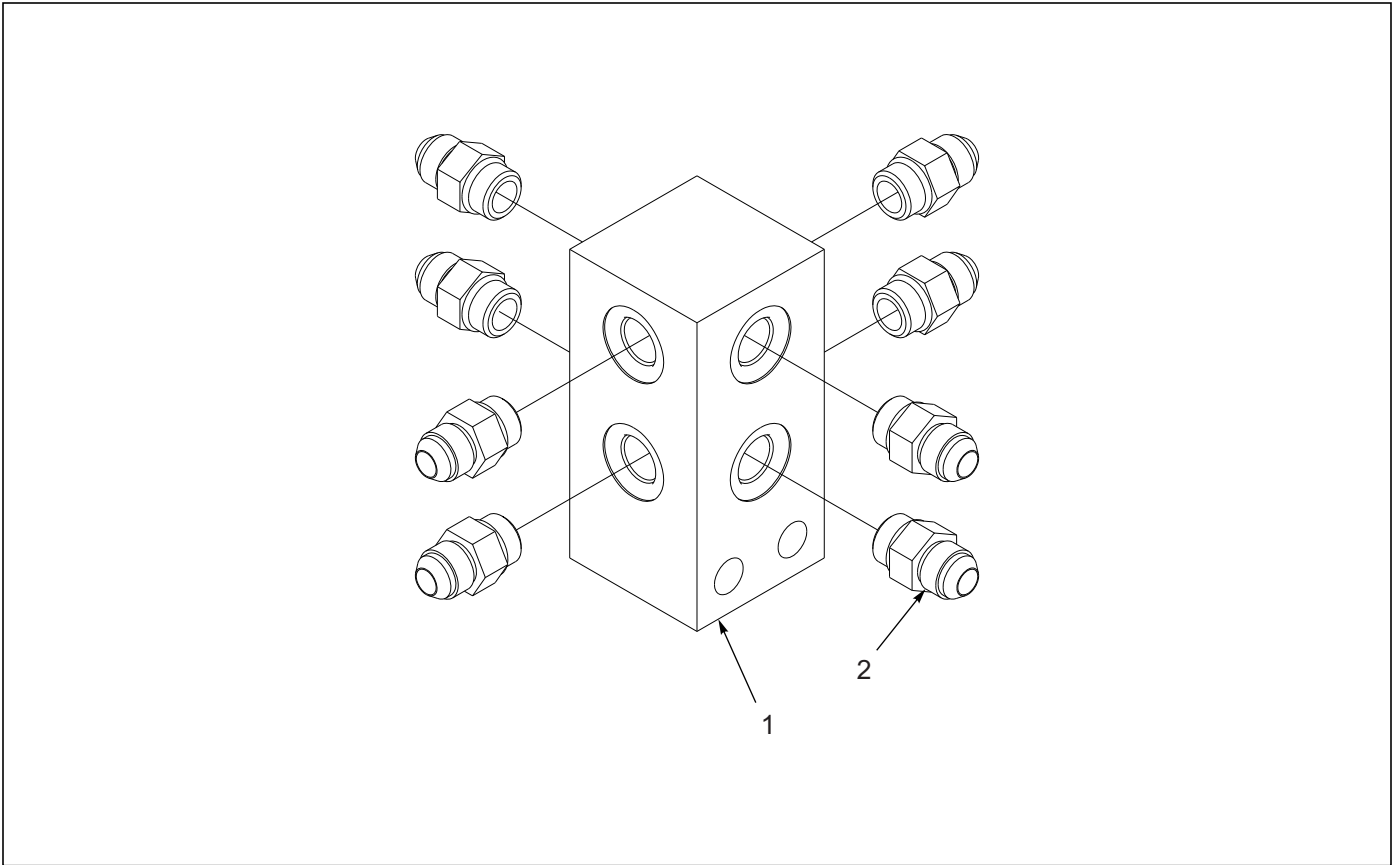
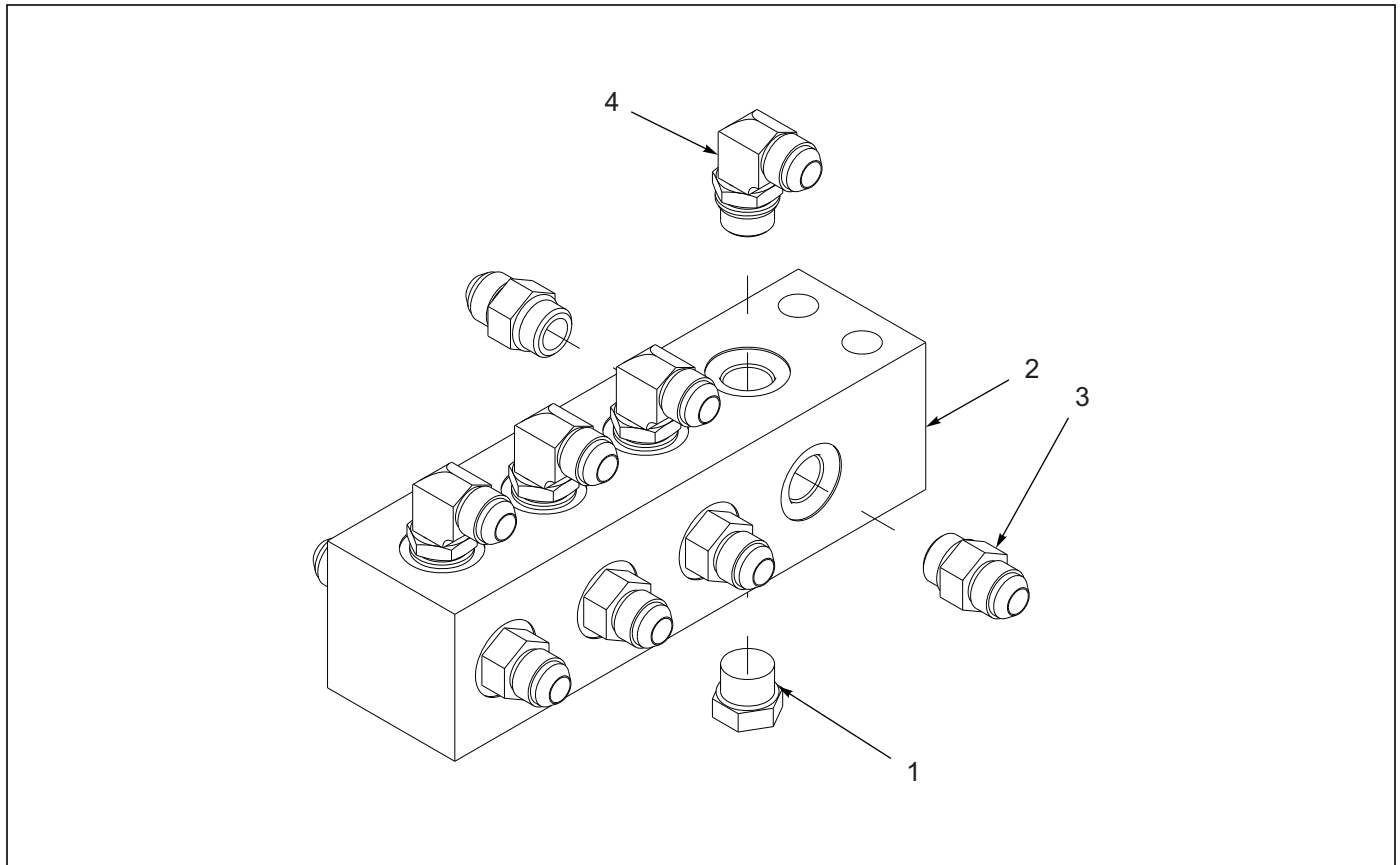


Figure 1-56: Manifold Assembly, Fold 28'

MANIFOLD ASSEMBLY, FOLD 28'

ITEM	PART NO.	DESCRIPTION	QTY.
--	166253	MANIFOLD ASSEMBLY, FOLD	
1	2-474-010022	MANIFOLD, HYDRAULIC ASSEMBLY 8 PORT	1
2	202702-8-8S	ADAPTER	8

**Figure 1-57: Manifold Assembly, Lift/Fold**

MANIFOLD ASSEMBLY, LIFT/FOLD

ITEM	PART NO.	DESCRIPTION	QTY.
--	166252	MANIFOLD ASSEMBLY, LIFT/FOLD	
1	1-007-010025	PLUG, 3/4-16	4
2	141594	MANIFOLD, HYDRAULIC 16 PORT	1
3	202702-8-8S	ADAPTER	8
4	2062-8-8S	ADAPTER, 90	4

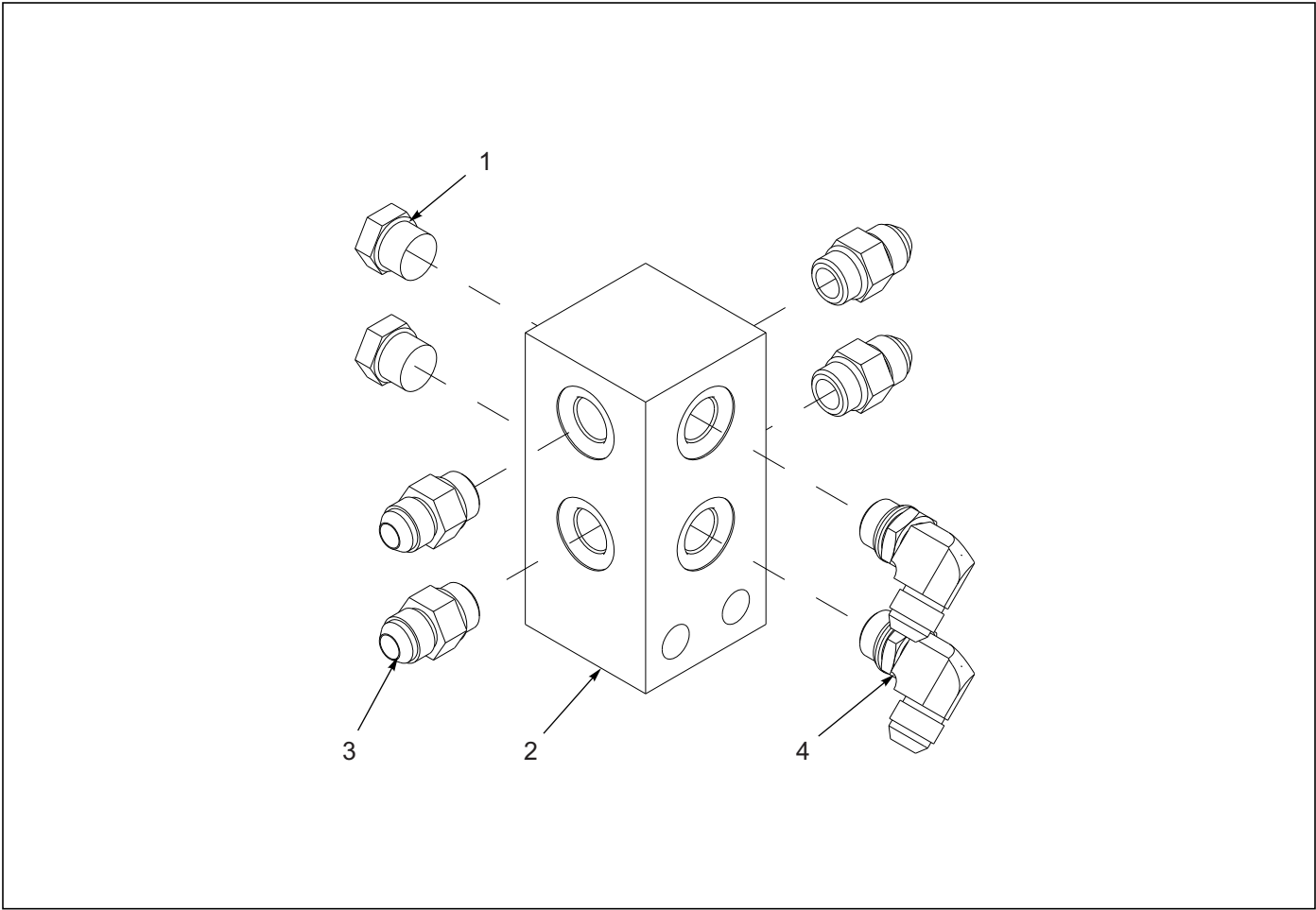


Figure 1-58: Manifold Assembly, Lift

MANIFOLD ASSEMBLY, LIFT

ITEM	PART NO.	DESCRIPTION	QTY.
	168835	MANIFOLD ASSEMBLY, LIFT	
1	1-007-010025	PLUG, 3/4-16	2
2	2-474-010022	MANIFOLD, HYDRAULIC 8 PORT	1
3	202702-8-8S	ADAPTER	4
4	2062-8-8S	ADAPTER, 90	2

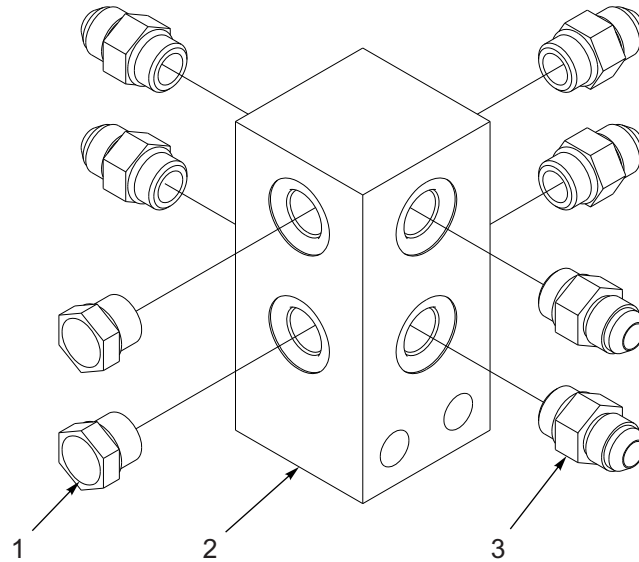


Figure 1-59: Manifold Assembly, Fold 20' & 24''

MANIFOLD ASSEMBLY, FOLD 20' & 24'

ITEM	PART NO.	DESCRIPTION	QTY.
--	168836	MANIFOLD ASSEMBLY, FOLD	
1	1-007-010025	PLUG, 3/4-16	2
2	2-474-010022	MANIFOLD, HYDRAULIC 8 PORT	1
3	202702-8-8S	ADAPTER	6

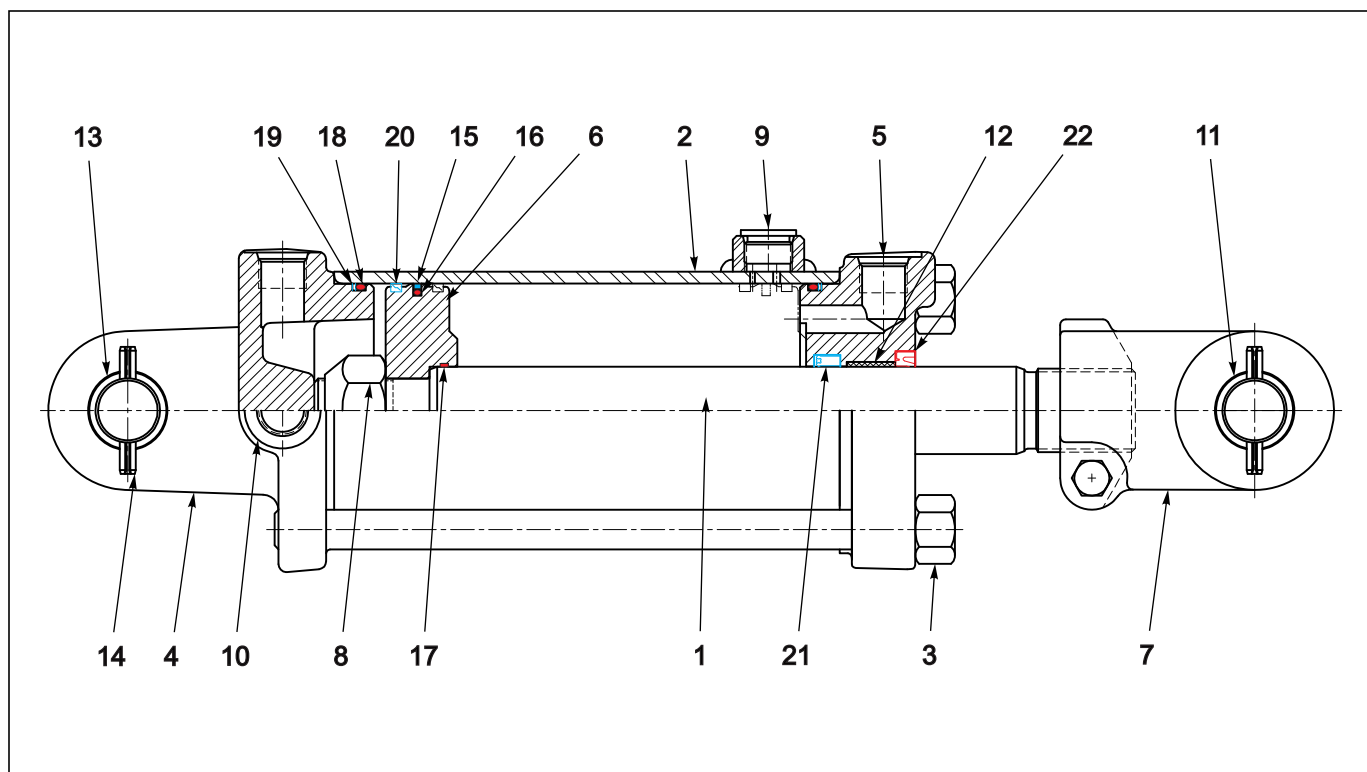


Figure 1-60: Cylinder - Rephase Assembly 3-3/4 X 10 (1" Clevis Pins)

Cylinder - Rephase Assembly 3-3/4 X 10 (1" Clevis Pins)

ITEM	PART NO.	DESCRIPTION	QTY.
--	140471	CYLINDER, 3-3/4 X 10, REPHASE (1" PINS)	
1	----	PISTON, ROD	1
2	----	TUBE ASSY	1
3	----	TIEROD ASSY	1
4	142116	BUTT CLEVIS ASSEMBLY	1
5	111871	GLAND ASSY	1
6	----	PISTON ROD	1
7	142110	CLEVIS ASSY	1
8	----	NUT, LOCK	1
9	----	PLUG, PORT	1
10	----	PLUG, PORT	3
11	142112	BUSHING	4
12	141301	BUSHING	1
13	143994	PIN, CLEVIS	2
14	111789	ROLL PIN	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	1
18	----	O- RING	2
19	----	BU- WASHER	2
20	----	BEARING RING	2
21	----	U- CUP	1
22	----	CANNED WIPER	1
23	142103	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-22)	

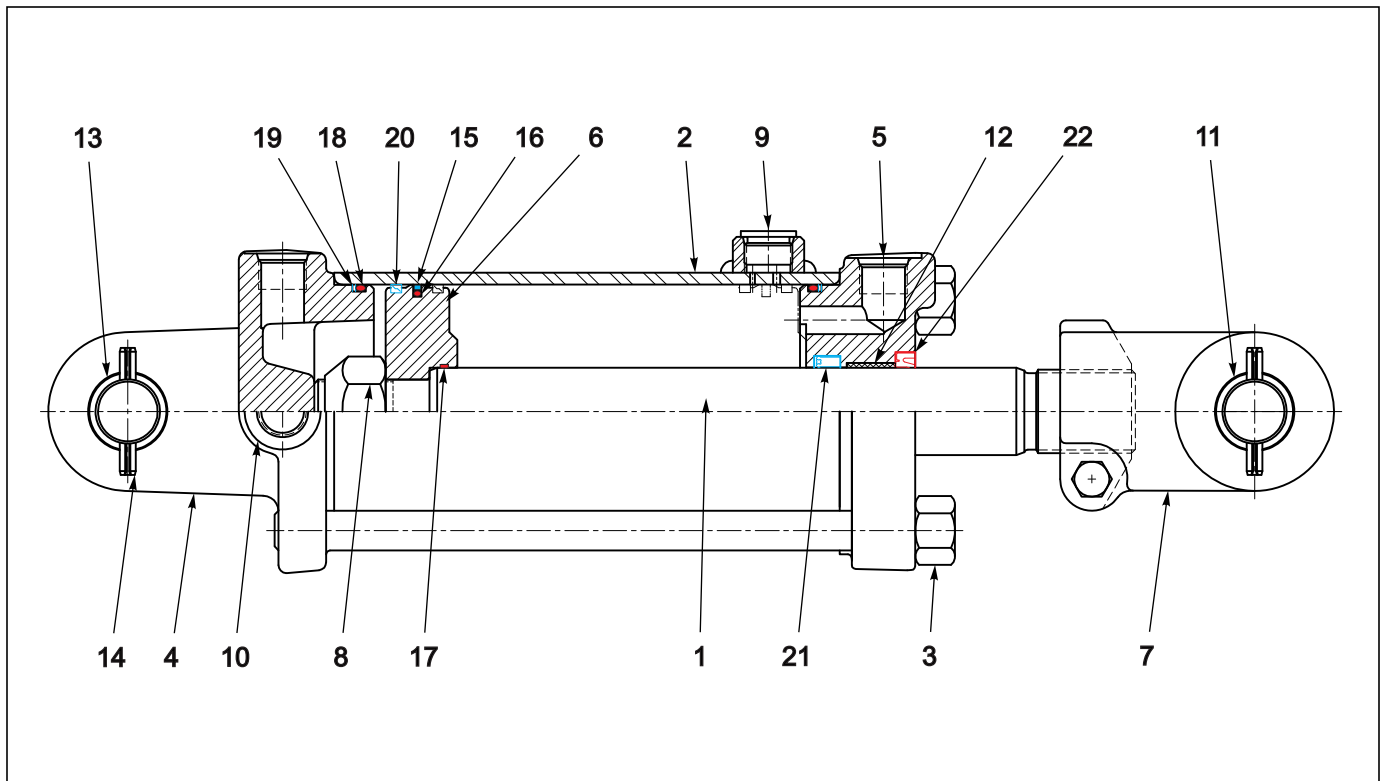


Figure 1-61: Cylinder - Rephase Assembly 4 X 10 (1" Clevis Pins)

Cylinder - Rephase Assembly 4 X 10 (1" Clevis Pins)

ITEM	PART NO.	DESCRIPTION	QTY.
--	140470	CYLINDER 4X10 REPHASE (1" PINS)	
1	----	PISTON, ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	1
4	142114	BUTT CLEVIS ASSY	1
5	142109	GLAND ASSEMBLY	1
6	----	PISTON	1
7	142110	CLEVIS ASSEMBLY	1
8	----	NUT, LOCK	1
9	----	PLUG, PORT	1
10	----	PLUG, PORT	3
11	142112	BUSHING	4
12	141301	BUSHING	1
13	143994	PIN, CLEVIS	2
14	111789	ROLL PIN	4
15	----	TEFLON SEAL	1
16	----	O- RING	1
17	----	O- RING	1
18	----	O- RING	2
19	----	BU- WASHER	2
20	----	BEARING RING	2
21	----	U- CUP	1
22	----	CANNED WIPER	1
23	142111	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 15-22)	

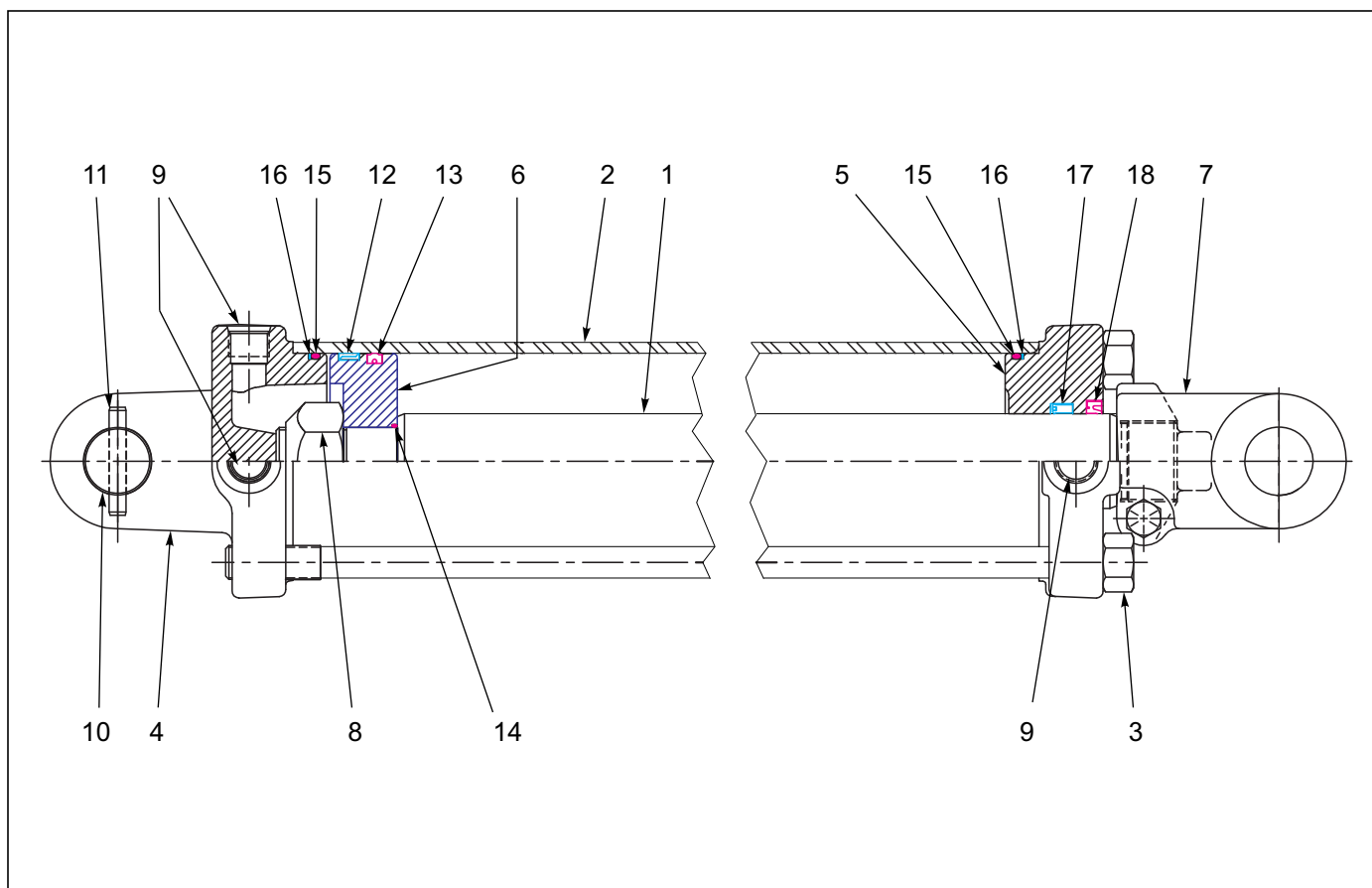


Figure 1-62: Cylinder - 4" X 30" (1-1/2" Dia Rod)

Cylinder - 4" X 30" (1-1/2" Dia Rod)

ITEM	PART NO.	DESCRIPTION	QTY.
--	140472	CYLINDER 4X30 1-1/2 ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSY	4
4	142119	BUTT CLEVIS ASSY	1
5	142120	GLAND	1
6	----	PISTON	1
7	100000328	CLEVIS ASSY	1
8	----	LOCKNUT	1
9	----	SHIPPING PLUG	3
10	111880	CLEVIS PIN	1
11	111789	ROLL PIN	2
12	----	BEARING RING	1
13	----	CROWN SEAL	1
14	----	O- RING	1
15	----	O- RING	2
16	----	BU- WASHER	2
17	----	U- CUP	1
18	----	CANNED WIPER	1
19	142113	PACKING KIT (NOT SHOWN) (INCLUDES ITEMS 12-18)	

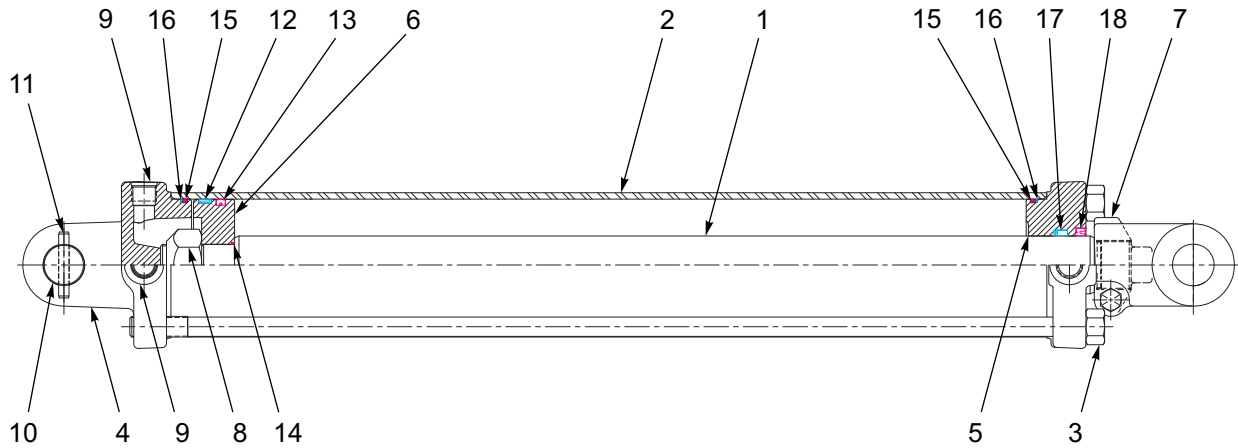
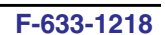


Figure 1-63: Hydraulic Cylinder 4-1/2" X 30"

Hydraulic Cylinder 4-1/2" X 30"

ITEM	PART NO.	DESCRIPTION	QTY.
--	167575	CYLINDER, 4-1/2 X 30, 2DIA ROD	
1	----	PISTON ROD	1
2	----	TUBE	1
3	----	TIEROD ASSEMBLY	4
4	218648	BUTT	1
5	169549	GLAND	1
6	----	PISTON	1
7	100000362	CLEVIS ASSEMBLY	1
8	----	LOCKNUT	1
9	----	PORT PLUG	3
10	169550	CLEVIS PIN	1
11	111789	ROLL PIN	2
12	----	BEARING RING	2
13	----	CROWN SEAL	1
14	----	O-RING	1
15	----	O-RING	2
16	----	BU-WASHER	2
17	----	U-CUP	1
18	----	WIPER	2
19	169552	PACKING KIT (ITEMS 12-18)	

1-98



DECAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-573-010006	PLATE, NAME	1
2	156010	RIVET, BLIND .156 X 1/2 GRIP	2
3	2-573-010037	DECAL, DANGER, WING	4
4	2-573-010198	DECAL MEMBER FEMA	1
5	8-573-010084	DECAL WARNING BEFORE OPERATING	1
6	141259	DECAL, LANDOLL YELLOW	2
7	141260	DECAL, LANDOLL	5
8	164301	DECAL, MODEL 9630	4
9	2-573-010330-03	DECAL LUBRICATION 50 HOURS	AR
10	2-573-010330-02	DECAL LUBRICATION 10 HOURS	AR
11	528933	REFLECTOR, RED (SEE PAGE 1-75 FOR DECAL LOCATION)	2
12	528934	REFLECTOR, YELLOW (SEE PAGE 1-75 FOR DECAL LOCATION)	4
13	528938	STRIPE, ORANGE (SEE PAGE 1-75 FOR DECAL LOCATION)	2
14	141597	DECAL, DANGER ELECTROCUTION	1
15	155523	DECAL, HOSE IDENTIFICATION	1
16	144193	DECAL, SIS 20 MPH	1
17	174448	DECAL, IMPORTANT SPRING SHANK INSTALLATION	2

ILLUSTRATED PARTS LIST

Table provided for general use.

[illegible]

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NOTES:

Document Control Revision Log:

Date	Form #	New/Updated	Improvement(s): Description and Comments
10/01/2010	F-633	New	Initial Release
12/04/2018	F-633-1218	Update	ECN44047 walking beam, removed bubbles, cylinder updates & Dealer Portal updates



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Re-Order Part Number F-633-1218

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