

RAKE

PARTS MANUAL



MODEL:

1400 & 1600

SERIAL NUMBER:

59 - 138

PART NUMBER:

R06003

AUTHORIZED DEALER INFORMATION	NOTES:
YOUR SERIAL NUMBER	NOTES:

If you have any questions or require assistance, please contact your servicing dealer.
You may also contact:



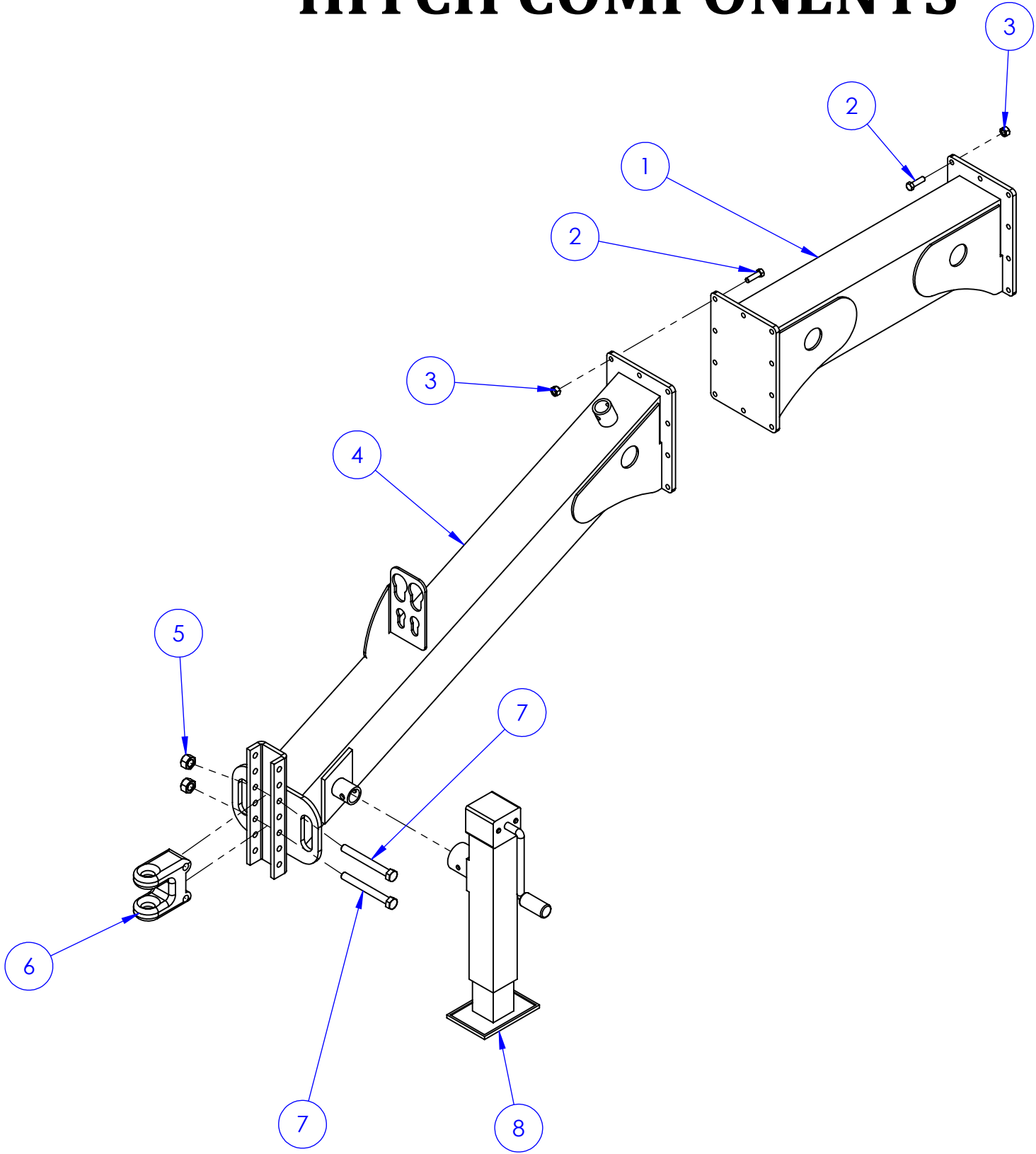
We look forward to your satisfaction with this equipment.
We will be pleased to assist you with any problems you may encounter.

RAKE PARTS MANUAL INDEX:

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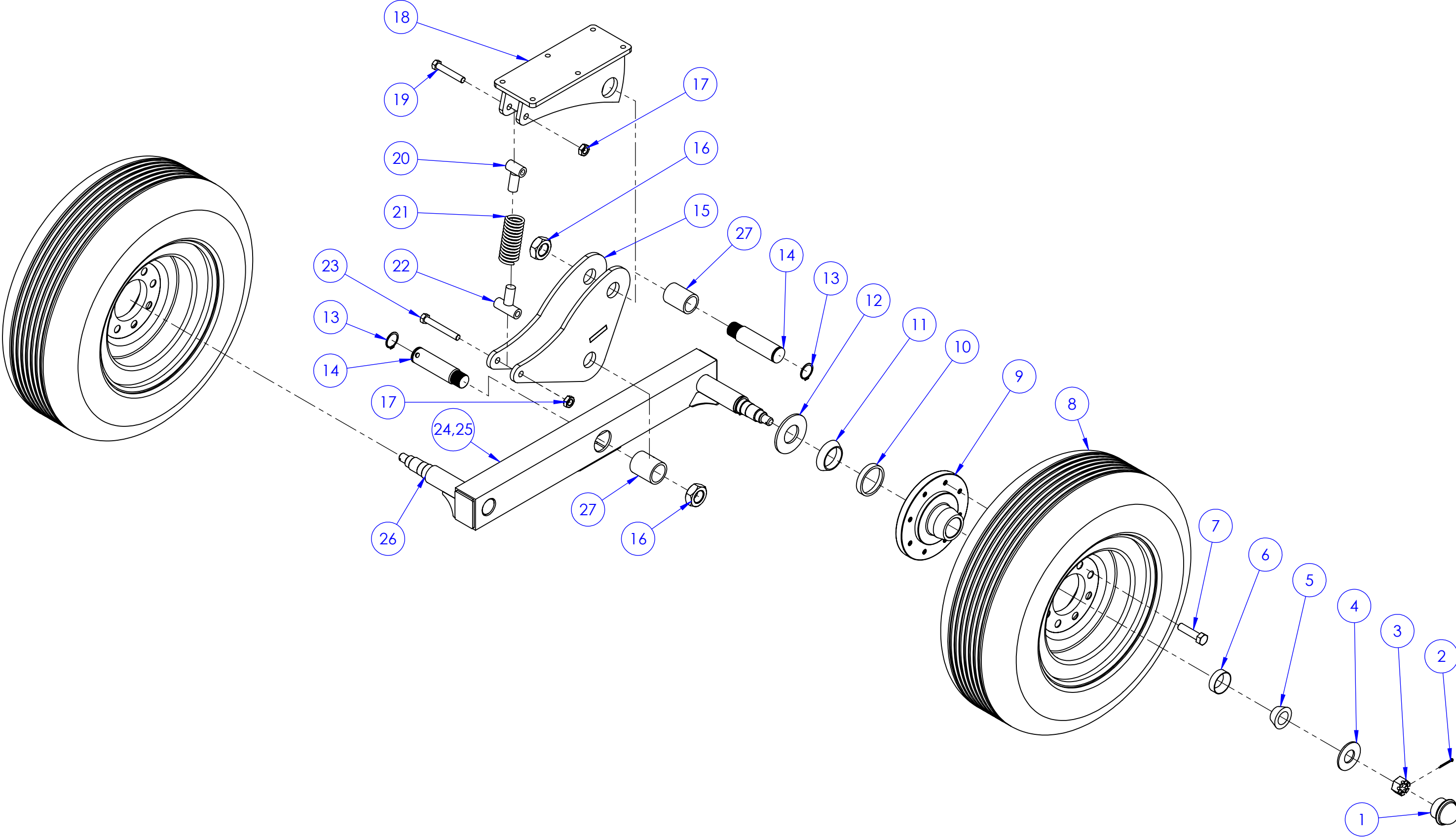
HITCH COMPONENTS



HITCH COMPONENTS BOM

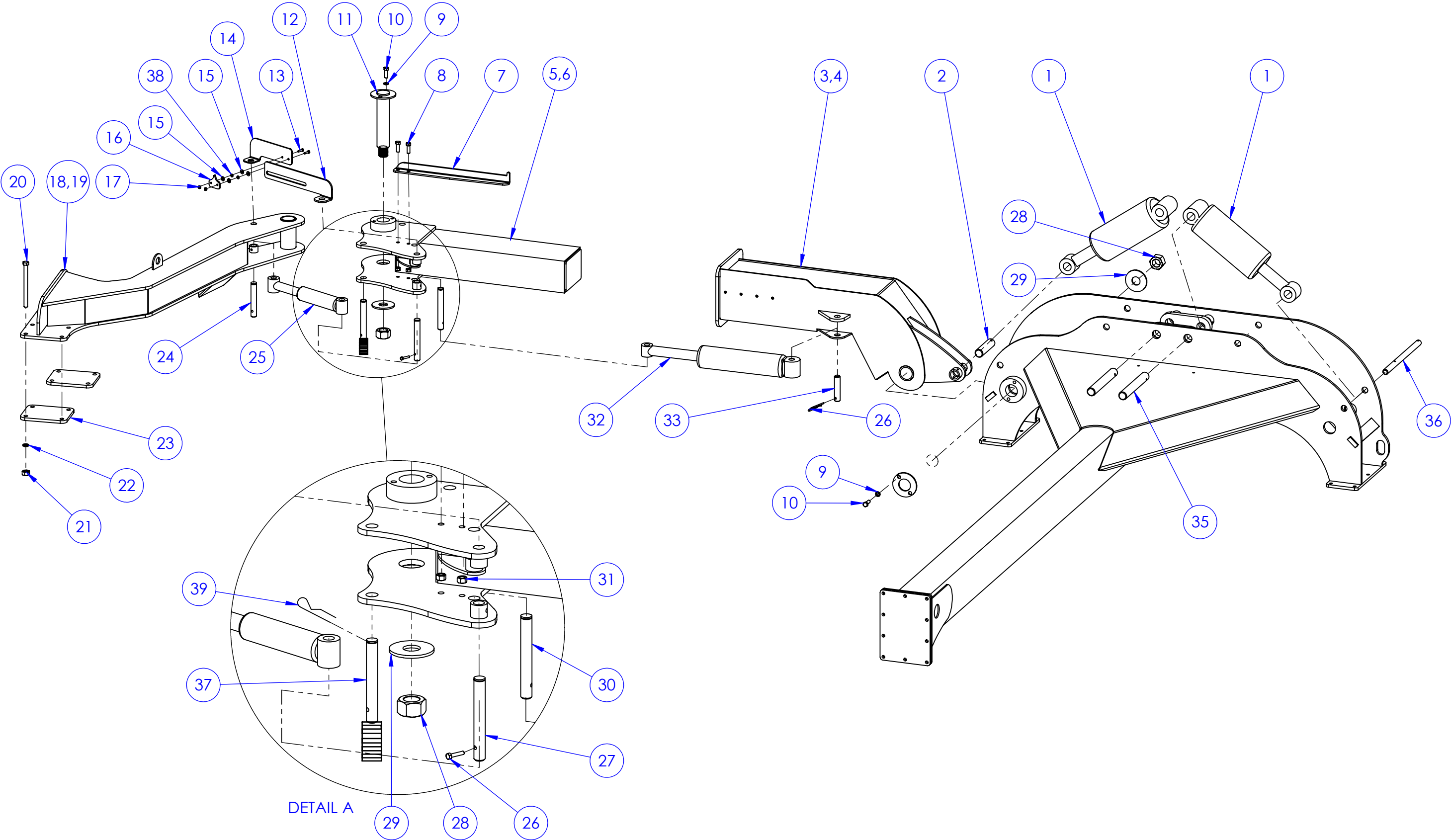
#	PART #	PART NAME	DESCRIPTION	QTY:
1	R01079	FRAME EXTENSION (COMPLETE)		1
2	R07002	HEX BOLT	1/2" NC X 1-3/4"	20
3	R07003	LOCK NUT	1/2" NC	20
4	R01076	FRAME TOUNGE EXTENSION		1
5	R07004	LOCK NUT	5/8" NC	2
6	R01063	HITCH CLEVIS		1
7	R07005	HEX BOLT	5/8" NC X 4-1/2"	2
8	R01065	JACK		1

WHEEL, AXLE, & SUSPENSION



	WHEEL, AXLE, & SUSPENSION BOM				PG. 6
	#	PART #	PART NAME	DESCRIPTION	
	1	R02035	WHEEL HUB CAP		4
	2	R02026	COTTER PIN		4
	3	R02027	CASTLE NUT	7/8" NF	4
	4	R02028	FLAT WASHER	7/8"	4
	5	R02029	OUTER CONE		4
	6	R02030	OUTER CUP		4
	7	R02031	WHEEL BOLT	1-1/2" NF x 1-1/4" TAPERED	16
	8	R02039	TIRE & RIM	11L - 15 - 6 BOLT	4
	9	R02003	WHEEL HUB		4
	10	R02032	INNER CUP		4
	11	R02033	INNER CONE		4
	12	R02034	WHEEL HUB SEAL		4
	13	R07038	SNAP RING	1-3/4" EXTRA HEAVY	4
	14	R02005	WALKING AXLE PIN	Ø 1-3/4" x 7"	4
	15	R02020	SUSPENSION BRACKET		2
	16	R07001	LOCK NUT	1-1/2" NF	4
	17	R07004	LOCK NUT	5/8"	4
	18	R02023	SUSPENSION TOP MNT.		2
	19	R07005	HEX BOLT	5/8" x 3-3/4"	2
	20	R02022	SHOCK TOP (COMPLETE)		2
	21	R02001	SUSPENSION SPRING	Ø 1" ID x 5"	2
	22	R02021	SHOCK BOTTOM (COMPLETE)		2
	23	R07007	HEX BOLT	5/8" NC x 5"	2
	24	R02040	WALKING AXLE ASSEMBLY	LEFT	1
	25	R02041	WALKING AXLE ASSEMBLY	RIGHT	1
	26	R02042	SPINDLE		4
	27	R02036	WALKING AXLE BUSHING	1-3/4" x 2" x 3"	4

MAIN BOOM, TELESCOPE, & TOOLBAR EXTENSION

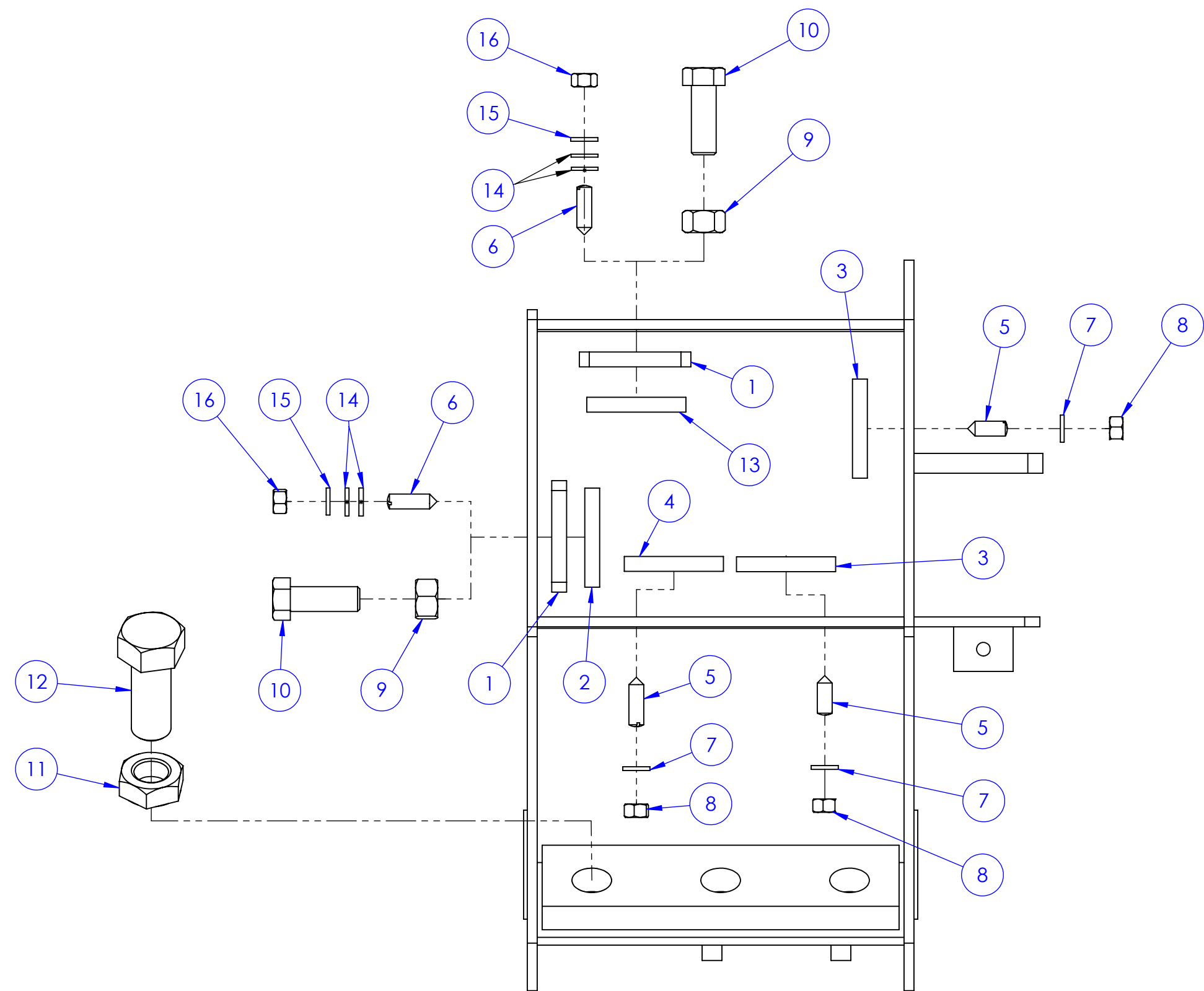


MAIN BOOM, TELESCOPE, & TOOLBAR EXTENSION BOM

PG. 8

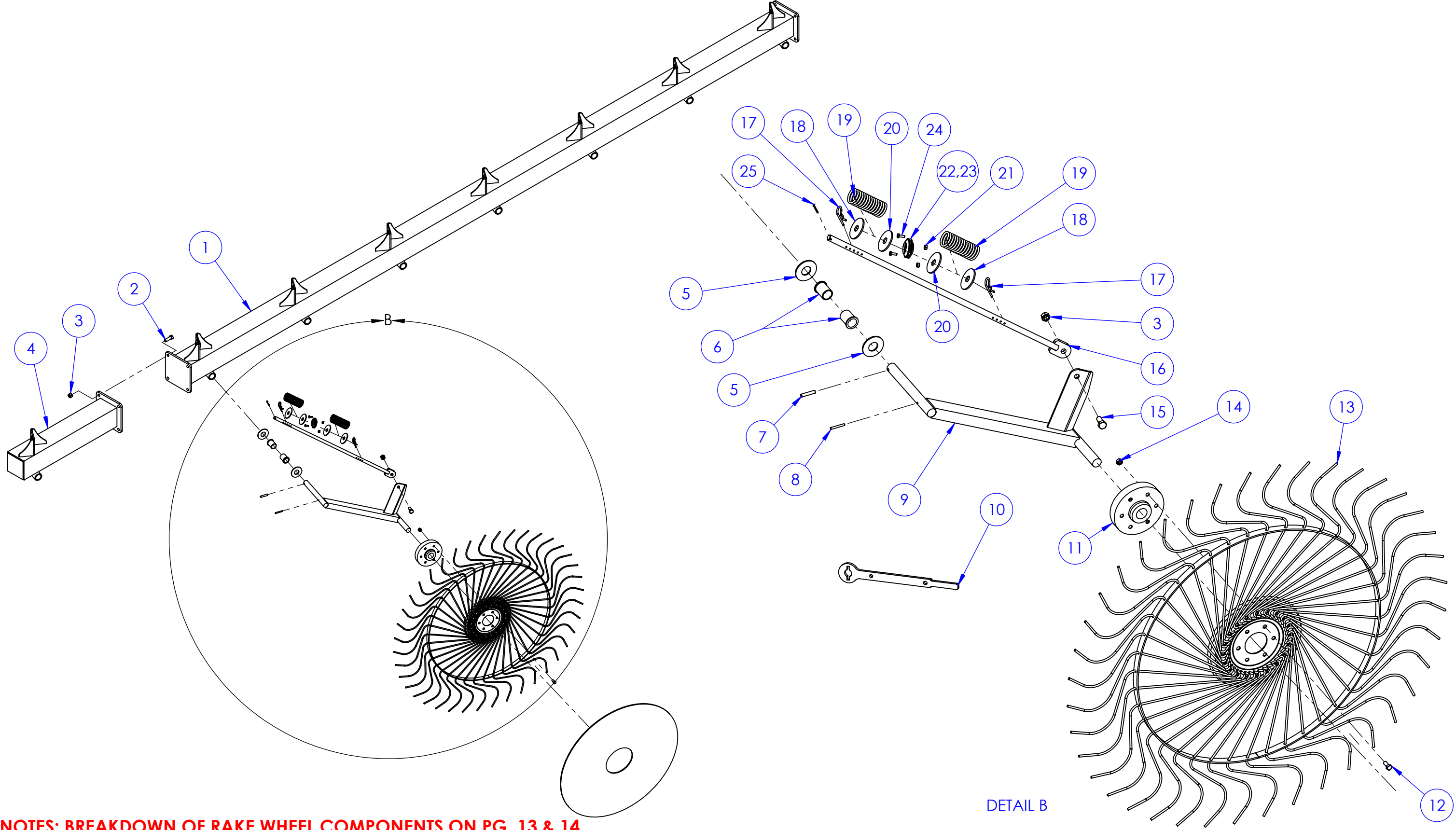
#	PART #	PART NAME	DESCRIPTION	QTY:
1	R04011	HYDRAULIC CYLINDER	4" X 12"	2
2	R01010	LIFT CYL.PIN	1-1/2" X 5"	2
3	R01089	MAIN BOOM ASSEMBLY	LEFT	1
4	R01090	MAIN BOOM ASSEMBLY	RIGHT	1
5	R01094	TELESCOPE TUBE	LEFT	1
6	R01095	TELESCOPE TUBE	RIGHT	1
7	R01059	TELESCOPE INDICATOR	(LEFT & RIGHT)	2
8	R07008	HEX BOLT	1/2" NC x 1-1/2"	4
9	R07009	LOCK WASHER	1/2"	4
10	R07010	HEX BOLT	1/2" NC x 1"	4
11	R01004	BOOM EXT. PIN	Ø 2-1/4" x 12"	2
12	R01060	ROTATE INDICATOR PLATE FRONT	(LEFT & RIGHT)	2
13	R07011	HEX BOLT	1/4" NC x 1"	4
14	R01061	ROTATE INDICATOR PLATE REAR	(LEFT & RIGHT)	2
15	R01097	WASHER	1/4" x 1/2" x 0.049"	8
16	R01062	ROTATE INDICATOR NEEDLE		2
17	R07012	LOCK NUT	1/4" NC	4
18	R01098	TELESCOPE EXT.	LEFT	1
19	R01099	TELESCOPE EXT.	RIGHT	1
20	R07013	HEX BOLT	5/8" NC x 8"	16
21	R07014	HEX NUT	5/8" NC	16
22	R07015	LOCK WASHER	5/8"	16
23	R01044	TELESCOPE EXT. BOTTOM PLATE		4
24	R01008	ROTATE CYL. PIN	Ø 1" x 6-1/4"	2
25	R04015	HYDRAULIC CYL.	2-1/2" x 6"	2
26	R07016	HEX BOLT	5/16" NC x 2"	2
27	R01007	ROTATE CYL. PIN	Ø 1" x 7-3/4"	2
28	R07001	LOCK NUT	1-1/2" NF	4
29	R01050	WASHER		4
30	R01006	TELESCOPE CYL. PIN	Ø 1" x 4-3/4"	2
31	R07003	LOCK NUT	1/2" NC	4
32	R04010	HYDRAULIC CYL.	2-1/2" x 16"	2
33	R01005	TELESCOPE CYL. PIN	Ø 1" x 5-3/4"	2
34	R01003	LIFT PIVOT PIN	Ø 2-1/4" x 16"	2
35	R01009	LIFT CYL. PIN	Ø 1-1/2" x 11-1/2"	2
36	R01019	LIFT SAFETY PIN	Ø 1" x 17"	2
37	R01020	ROTATE SAFETY PIN	Ø 1" x 13"	2
38	R01096	ROTATE INDICATOR BEARING	1/4" BALL BEARING	4
39	R07031	HAIR PIN	5/32"	2

MAIN BOOM COMPONENTS



	MAIN BOOM COMPONENTS BOM					PG. 10
	#	PART #	PART NAME	DESCRIPTION	QTY / RAKE	
	1	R01093	TELESCOPE BEARING PLATE		4	
	2	R01002	TELESCOPE BEARING ADJUSTABLE	3/8"	2	
	3	R01001	TELESCOPE BEARING SOLID	3/8"	4	
	4	R01092	TELESCOPE BEARING SOLID	5/16"	2	
	5	R07018	SET SCREW	3/8" NC x 1"	24	
	6	R07052	SET SCREW	3/8" NC x 1-1/2"	16	
	7	R07020	LOCK WASHER	3/8"	48	
	8	R07021	HEX NUT	3/8" NC	48	
	9	R07022	JAM NUT	5/8" NC	12	
	10	R07023	HEX BOLT	5/8" NC x 1-3/4"	12	
	11	R07040	JAM NUT	1" NC	6	
	12	R07039	HEX BOLT	1" NC x 2-1/2"	6	
	13	R01101	TELESCOPE BEARING ADJUSTABLE	5/16"	2	
	14	R01105	Rubber Washer	3/8" x 13/16" x 1/8"	32	
	15	R07053	Flat Washer	5/16"	16	
	16	R07054	Lock Nut	3/8" NC Nylock	16	

TOOLBAR, & RAKE WHEEL COMPONENTS



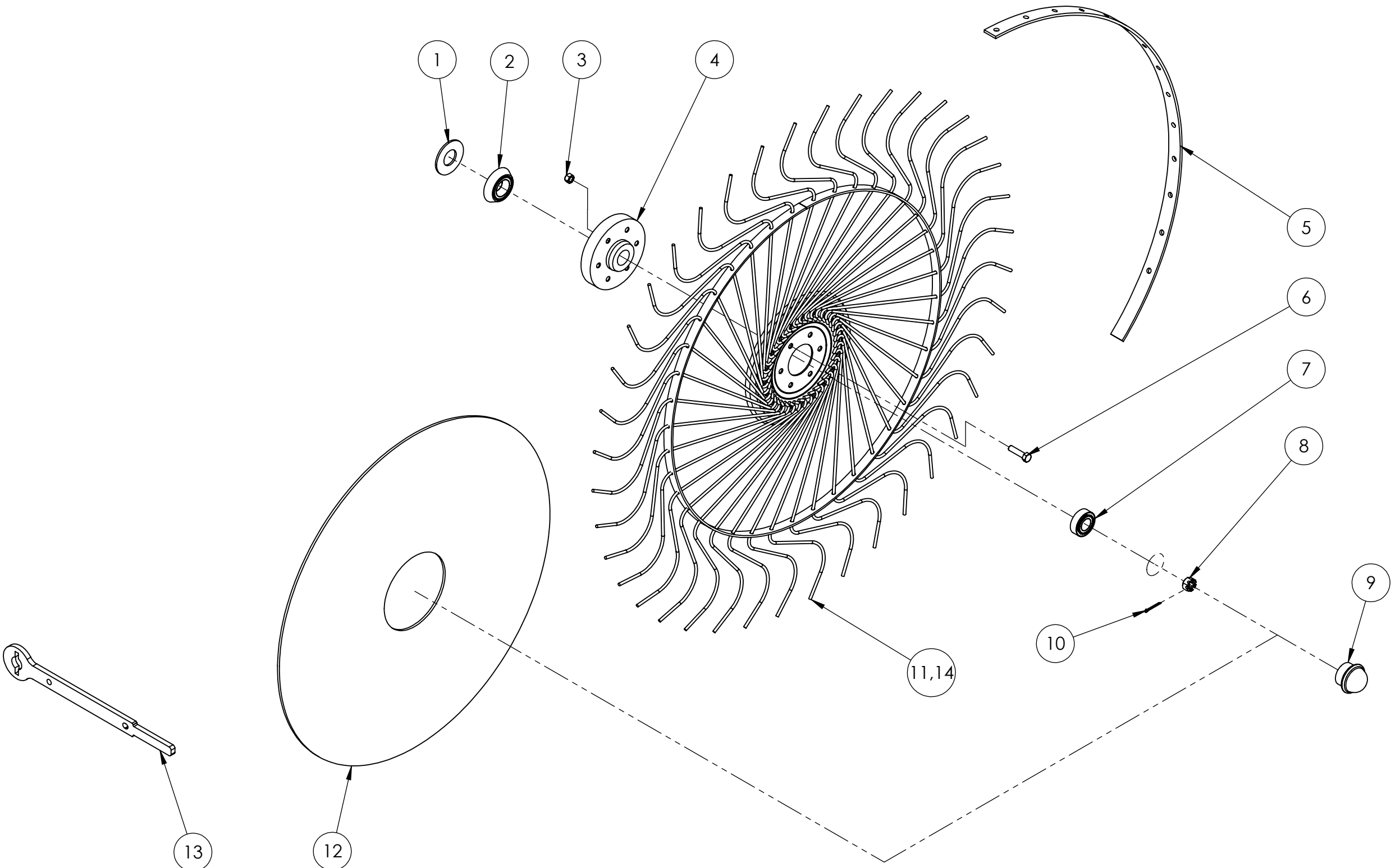
NOTES: BREAKDOWN OF RAKE WHEEL COMPONENTS ON PG. 13 & 14.

TOOLBAR, & RAKE WHEEL COMPONENTS BOM

#	PART #	PART NAME	DESCRIPTION	QTY:
1	R01070 R01071	TOOLBAR ASSEMBLY LEFT TOOLBAR ASSEMBLY RIGHT		1
2	R07023	HEX BOLT	5/8" NC X 1-3/4"	8
3	R07004	LOCK NUT	5/8" NC	8
4	R01073 R01074	TOOLBAR EXT. ASSEMBLY LEFT TOOLBAR EXT. ASSEMBLY RIGHT		1
5	R07024	MACHINE WASHER	1-1/4" X 14GA.	28/32
6	R03005	RAKE ARM BUSHING		28/32
7	R07032	ROLL PIN	3/8" X 2"	14/16
8	R07033	ROLL PIN	1/4" X 2"	14/16
9	R03016 R03017	WHEEL ARM ASSEMBLY LEFT WHEEL ARM ASSEMBLY RIGHT	(HUB INCLUDED)	7/8 7/8
10	R03014	RAKE WHEEL TOOL		1
11	R03003	RAKE WHEEL HUB	(COMPLETE KIT)	14/16
12	R07026	HEX BOLT	7/16" NC X 1"	84/96
13	R03001 R03002	RAKE WHEEL LEFT RAKE WHEEL RIGHT		14/16
14	R07027	LOCK NUT	7/16" NC	84/96
15	R07028	HEX BOLT	5/8" NC X 1-1/2"	14/16
16	R03011	WHEEL ROD		14/16
17	R07031	HAIR PIN	5/32"	28/32
18	R07030	FLAT WASHER	3/4"	28/32
19	R03015	RAKE WHEEL SPRING		14/16
20	R03018	MACHINE WASHER	3/4" NARROW RIM	28/32
21	R07029	LOCK NUT	5/16" NC	14/16
22	R03007	WHEEL ROD BEARING FLANGE		14/16
23	R03006	WHEEL ROD BEARING		14/16
24	R07031	HEX BOLT	5/16" NC X 3/4"	28/32
25	R07034	ROLL PIN	3/16" X 1"	14/16

NOTE: QUANITY PER RAKE (LEFT SIDE NUMBER FOR 1400 RAKE & RIGHT SIDE NUMBER FOR 1600 RAKE)

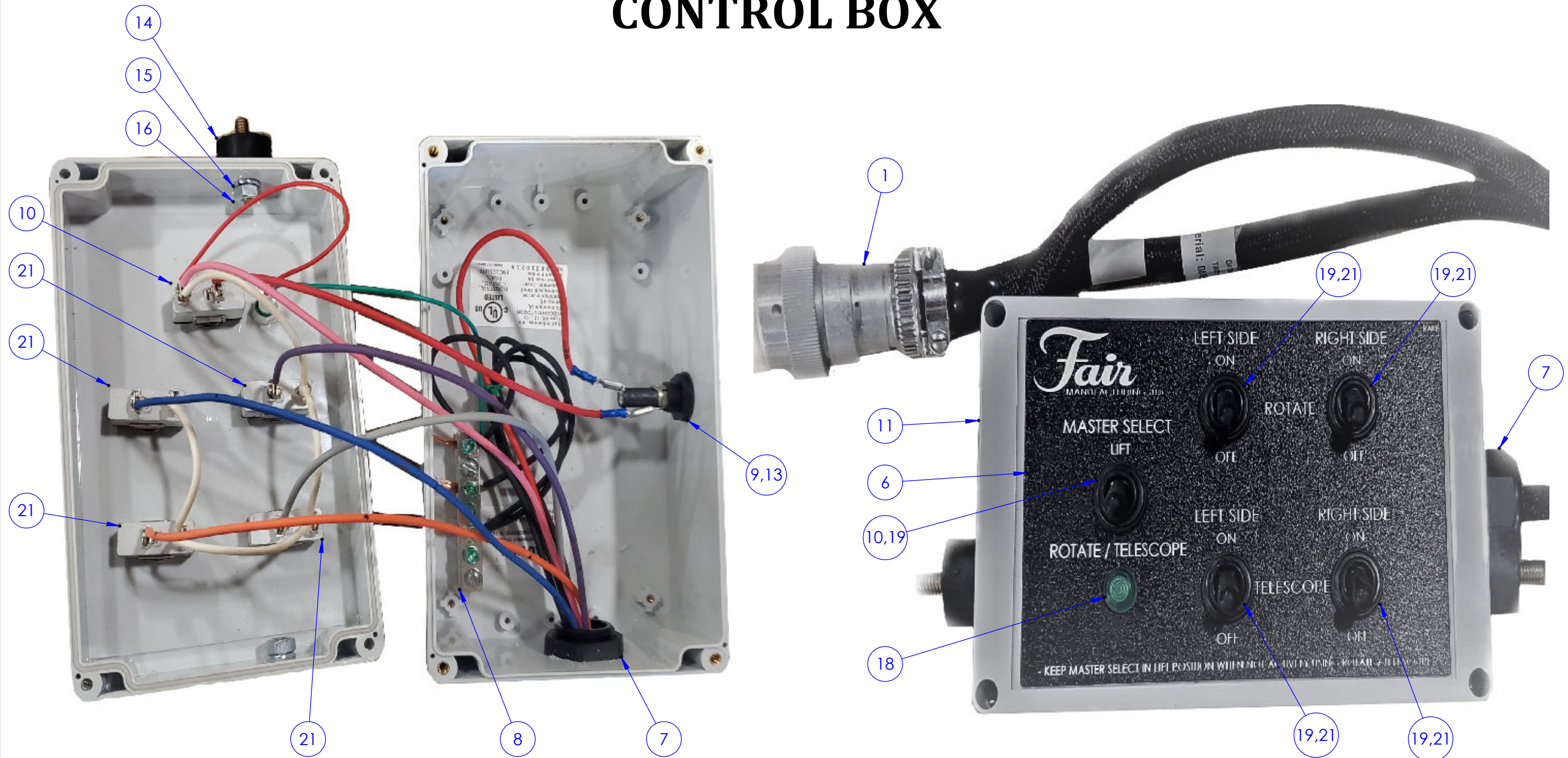
RAKE WHEEL COMPONENTS



RAKE WHEEL COMPONENTS BOM

#	PART #	PART NAME	DESCRIPTION	QTY: 1400	QTY: 1600
1	R03022	WHEEL SEAL		14	16
2	R03024	INNER BEARING	CUP & CONE	14	16
3	R07027	LOCK NUT	7/16" NC	84	96
4	R03003	RAKE WHEEL HUB	(COMPLETE KIT)	14	16
5	R03019	TEETH REINFORCEMENT BAND KIT	(COMPLETE KIT)	14	16
6	R07026	HEX BOLT	7/16" NC X 1"	84	96
7	R03023	OUTER BEARING	CUP & CONE	14	16
8	R03025	CASTLE NUT	M18 x 1-1/2"	14	16
9	R03026	DUST CAP		14	16
10	R07051	COTTER PIN	1/8" x 1-1/2"	14	16
11	R03001 R03002	RAKE WHEEL LEFT RAKE WHEEL RIGHT	60"	14	16
12	R03004	WIND GAURD		14	16
13	R03014	RAKE WHEEL TOOL		1	1
14	R03020	RAKE WHEEL TOOTH	(x40 / WHEEL)	1	1

CONTROL BOX

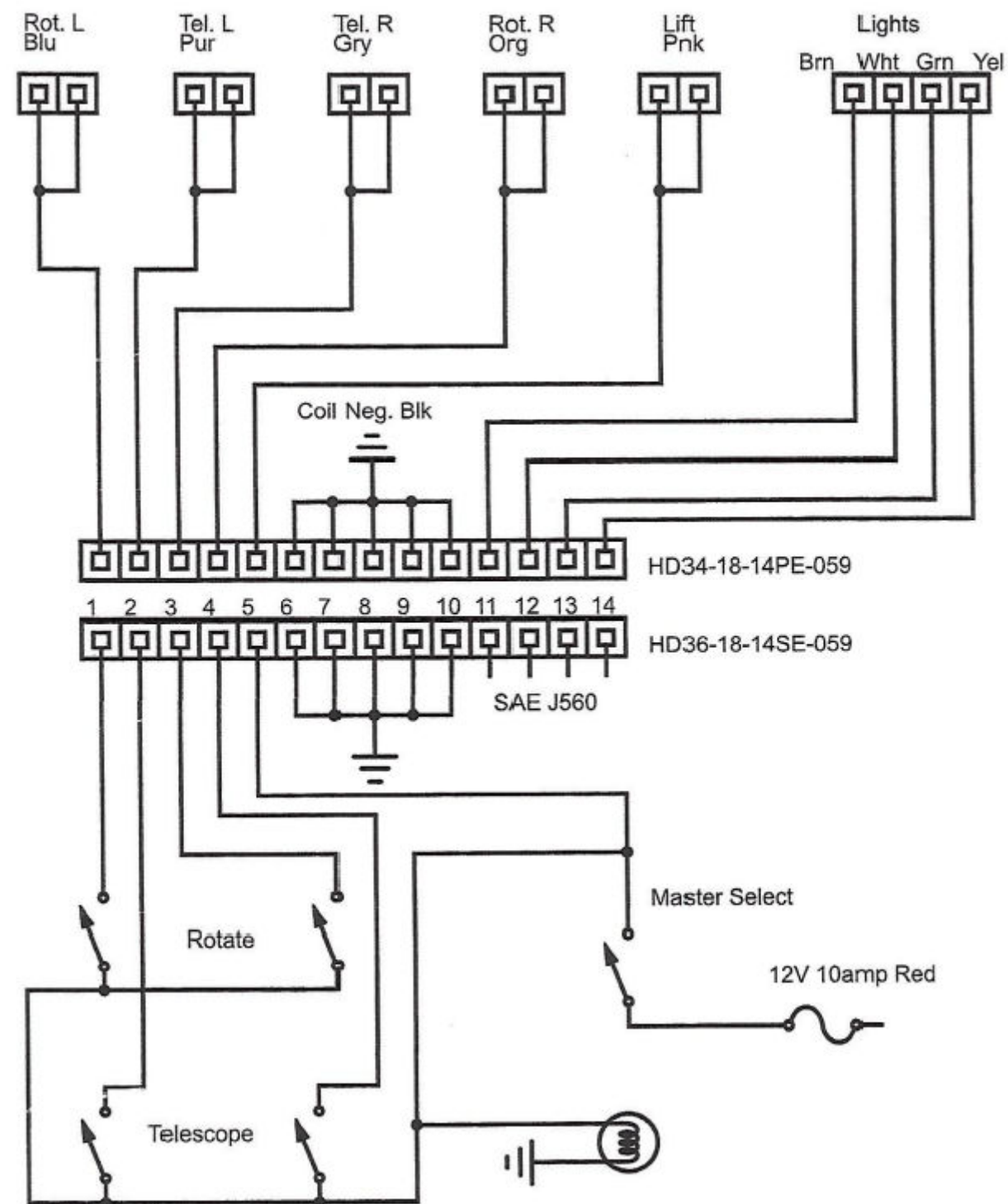


NOTES: ELECTRICAL SCHEMATIC FOR CONTROL BOX ON PG. 15.

CONTROL BOX BOM

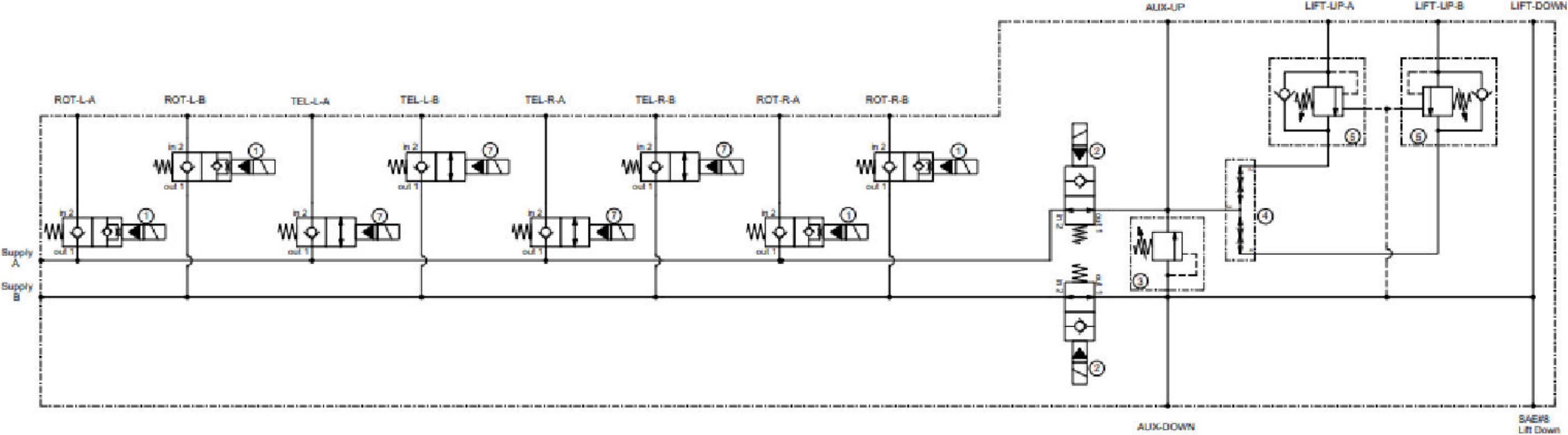
#	PART #	PART NAME	DESCRIPTION	QTY:
1	R05001	CONTROL BOX HARNESS		1
2	R05002	MANIFOLD HARNESS	(NOT SHOWN)	1
3	R05004	CONTROL BOX DUST CAP	(NOT SHOWN)	1
4	R05005	IMPLEMENT DUST CAP	(NOT SHOWN)	1
5	R05014	CONTROL BOX (IMCOMPLETE)	(BOX ONLY, NO HOLES)	1
6	R05013	CONTROL BOX FACE PLATE		1
7	R05007	CORD ANCHOR W/ NUT	3/4"	1
8	R05006	GROUND BAR		1
9	R05008	FUSE HOLDER		1
10	R05016	TOGGLE SWITCH	2 POSITION (FOR MASTER SWITCH)	1
11	R05009	CONTROL BOX (COMPLETE)	(CONTROL BOX DUST CAP INCLUDED)	1
12	R05010	CONTROL BOX MOUNT	(NOT SHOWN)	1
13	R05011	BUSS FUSE	10 A	1
14	R05012	RUBBER ISOLATOR	1/4"	2
15	R07035	LOCK WASHER	1/4"	2
16	R07037	HEX NUT	1/4" NC	2
17	R07036	WING NUT	1/4" (NOT SWOWN)	2
18	R05015	GREEN LED LIGHT		1
19	R05017	TOGGLE SWITCH COVERS		5
20	R05003	LIGHT KIT	(NOT SHOWN)	1
21	R05018	TOGGLE SWITCH	(FOR ROTATE & TELESCOPE)	4

ELECTRICAL SCHEMATIC



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HYDRAULIC SCHEMATIC

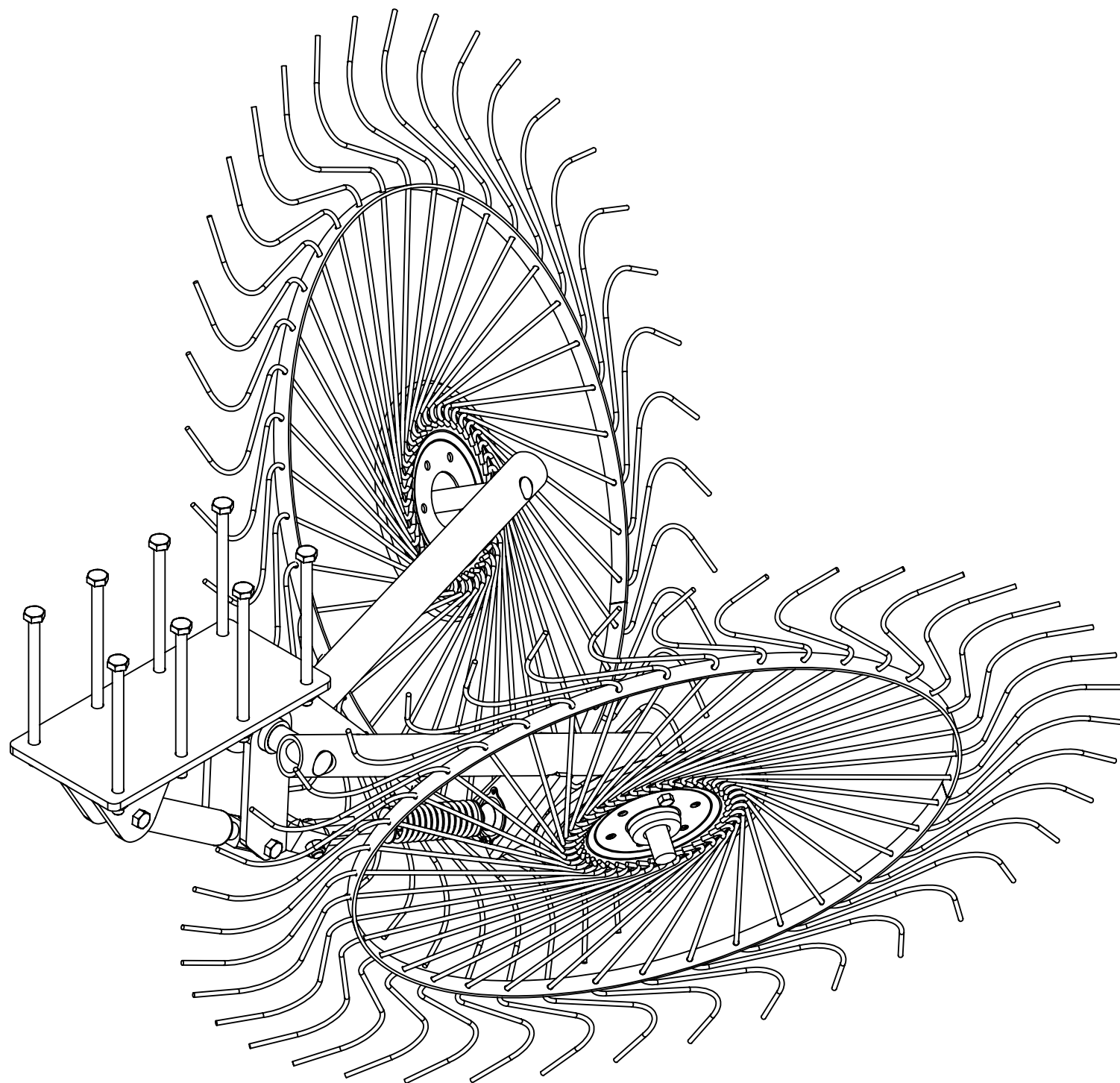


HYDRAULICS BOM

#	PART #	PART NAME	DESCRIPTION	QTY:
1	R04002	SOLENOID VALVE	ROTATE	4
2	R04004	SOLENOID VALVE	LIFT	2
3	R04006	RELIEF VALVE		1
4	R04007	FLOW DIVIDER		1
5	R04008	COUNTER BALANCE VALVE		2
6	R04001	HYD. MANIFOLD (COMPLETE)		1
7	R04012	SOLENOID VALVE	TELESCOPE	4
8	R04003	VALVE COIL	TELESCOPE / ROTATE	8
9	R04005	VALVE COIL	LIFT	2
10	R04015	HYD. CYLINDER (ROTATE)	2-1/2" x 6" (SHOWN ON PG. 7)	2
11	R04010	HYD. CYLINDER (TELESCOPE)	2-1/2" x 16" (SHOWN ON PG. 7)	2
12	R04011	HYD. CYLINDER (LIFT)	4" x 12" (SHOWN ON PG. 7)	2

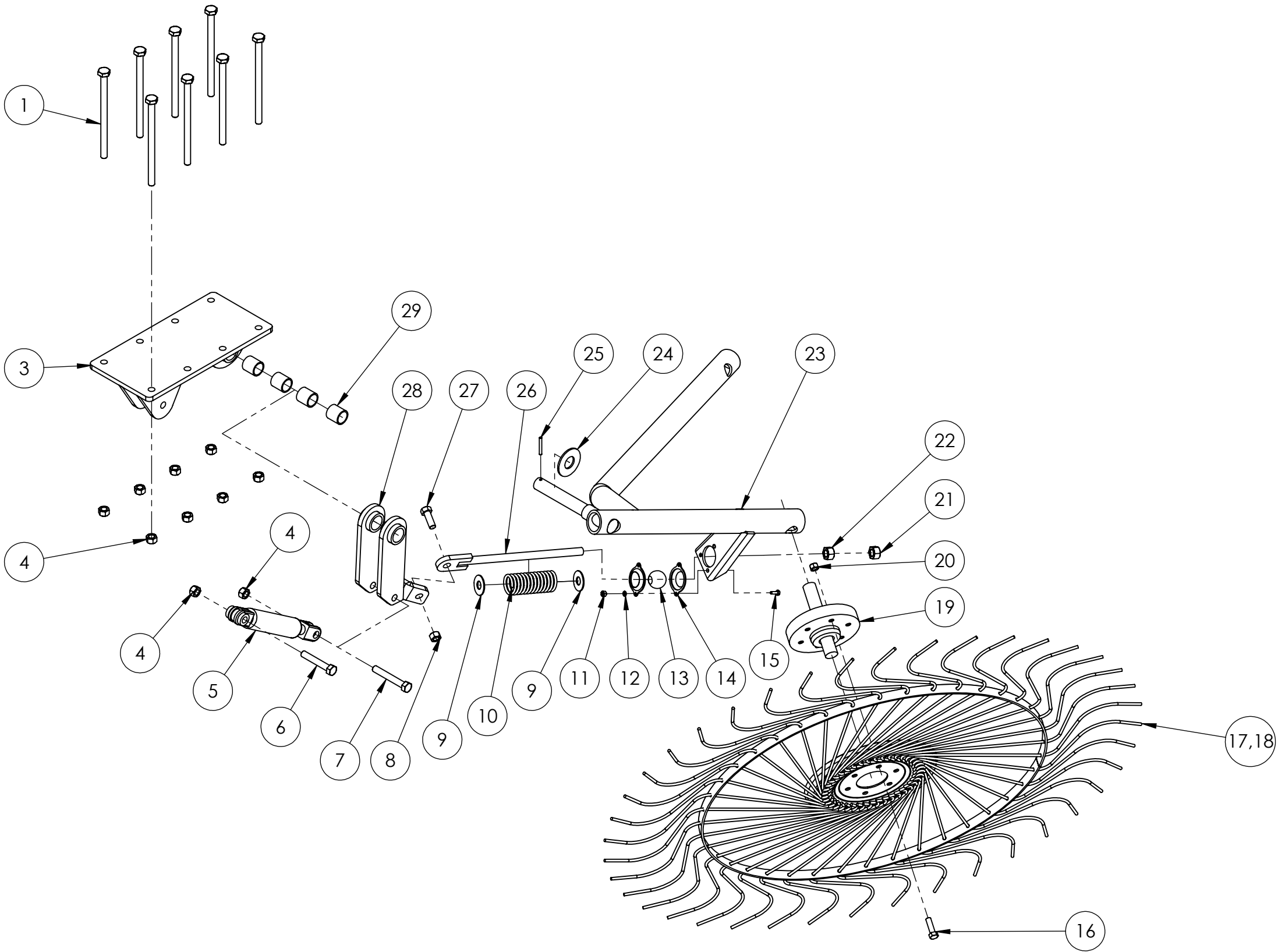
(OPTIONAL)
CENTER KICKER WHEEL KIT

PART NUMBER: R09028



NOTE: BREAK DOWN FOR CENTER KICKER WHEEL KIT ON NEXT PAGE.

CENTER KICKER WHEEL KIT



CENTER KICKER WHEEL KIT BOM

#	PART #	PART NAME	DESCRIPTION	QTY:
1	R07042	HEX BOLT	5/8" NC X 10	8
2	R09017	TOP MOUNT PLATE		2
3	R09015	BOTTOM MOUNT PLATE ASSEMBLY		1
4	R07004	LOCK NUT	5/8" NC	10
5	R04013	HYDRAULIC CYLINDER	1-1/2" X 4"	1
6	R09011	TOP CYLINDER - HEX BOLT	5/8" NC X 3-3/4"	1
7	R09012	BOTTOM CYLINDER - HEX BOLT	5/8" NC X 4-1/4"	1
8	R07043	LOCK NUT	3/4" NC	1
9	R07030	FLAT WASHER	3/4"	2
10	R09023	TENSIONER SPRING	3/4" X 1-1/2" X 5"	1
11	R07048	HEX NUT	5/16" NC	3
12	R07049	LOCK WASHER	5/16"	3
13	R09022	TENSIONER BEARING		1
14	R03007	TENSIONER BEARING FLANGE		2
15	R07050	HEX BOLT	5/16" NC X 1-1/4"	3
16	R07026	HEX BOLT	7/16" NC X 1"	12
17	R09020 R09021	RAKE WHEEL LEFT RAKE WHEEL RIGHT	Ø55"	1 1
18	R09027	RAKE TOOTH	FOR Ø55 RAKE WHEELS	-
19	R03003	WHEEL HUB ASSEMBLY	FOR Ø55 RAKE WHEELS	1
20	R07027	LOCK NUT	7/16" NC	12
21	R07046	JAM NUT	3/4" NC	1
22	R07047	HEX NUT	3/4" NC	1
23	R09016	CENTER WHEEL MOUNT ASSEMBLY		1
24	R07044	MACHINE WASHER	1-1/4" X 10G	1
25	R07033	ROLL PIN	1/4" X 2"	1
26	R09024	TENSIONER ROD		1
27	R07045	HEX BOLT	3/4" NC x 1-1/2"	1
28	R09015	BOTTOM CYLINDER MOUNT ASSEMBLY		1
29	R09019	CYLINDER LINKAGE BUSHING	1-1/4" x 1-1/2" x 1-1/2"	4