



AR3210

***ACTION* RAKE**

PARTS BOOK

Part #91298 HSMFG121622 Rev. #01 Starting Ser. #322SS10001

STRONG HERITAGE - STRONG PEOPLE - STRONGER FUTURE



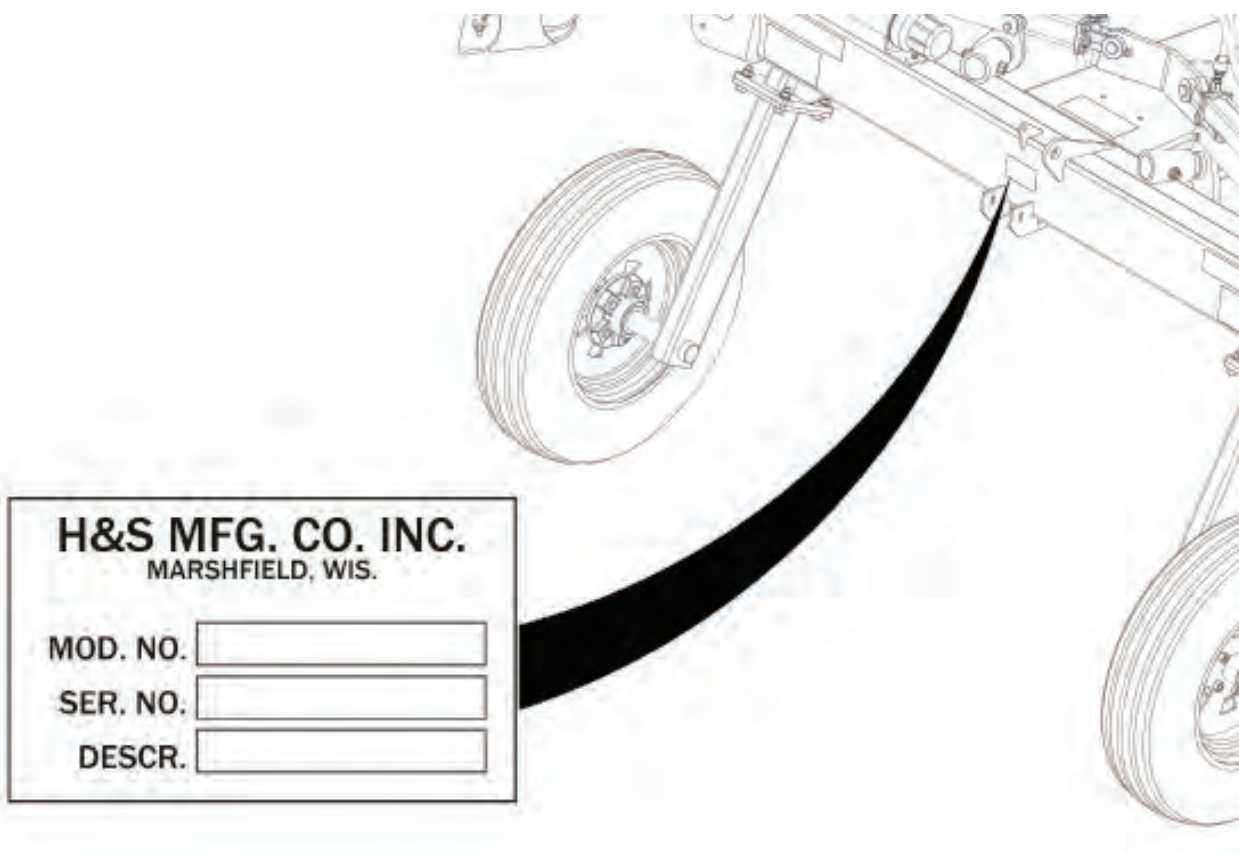
INSTRUCTIONS FOR ORDERING PARTS

All service parts should be ordered through your authorized H&S dealer. Your Dealership will be able to give you faster service if you will provide them with the following:

1. All references to left or right apply to the machine as viewed from the rear.
2. Parts should not be ordered from illustration only. Please order complete part number.
3. If your dealer has to order parts - give shipping instructions:

Via truck - large pieces (please specify local truck lines)

Via United Parcel Service (include full address)



PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

H&S IS CONTINUALLY STRIVING TO IMPROVE ITS PRODUCTS

We must, therefore, reserve the right to make improvements or changes whenever it becomes practical to do so, without incurring any obligation to make changes or additions to the equipment previously sold.



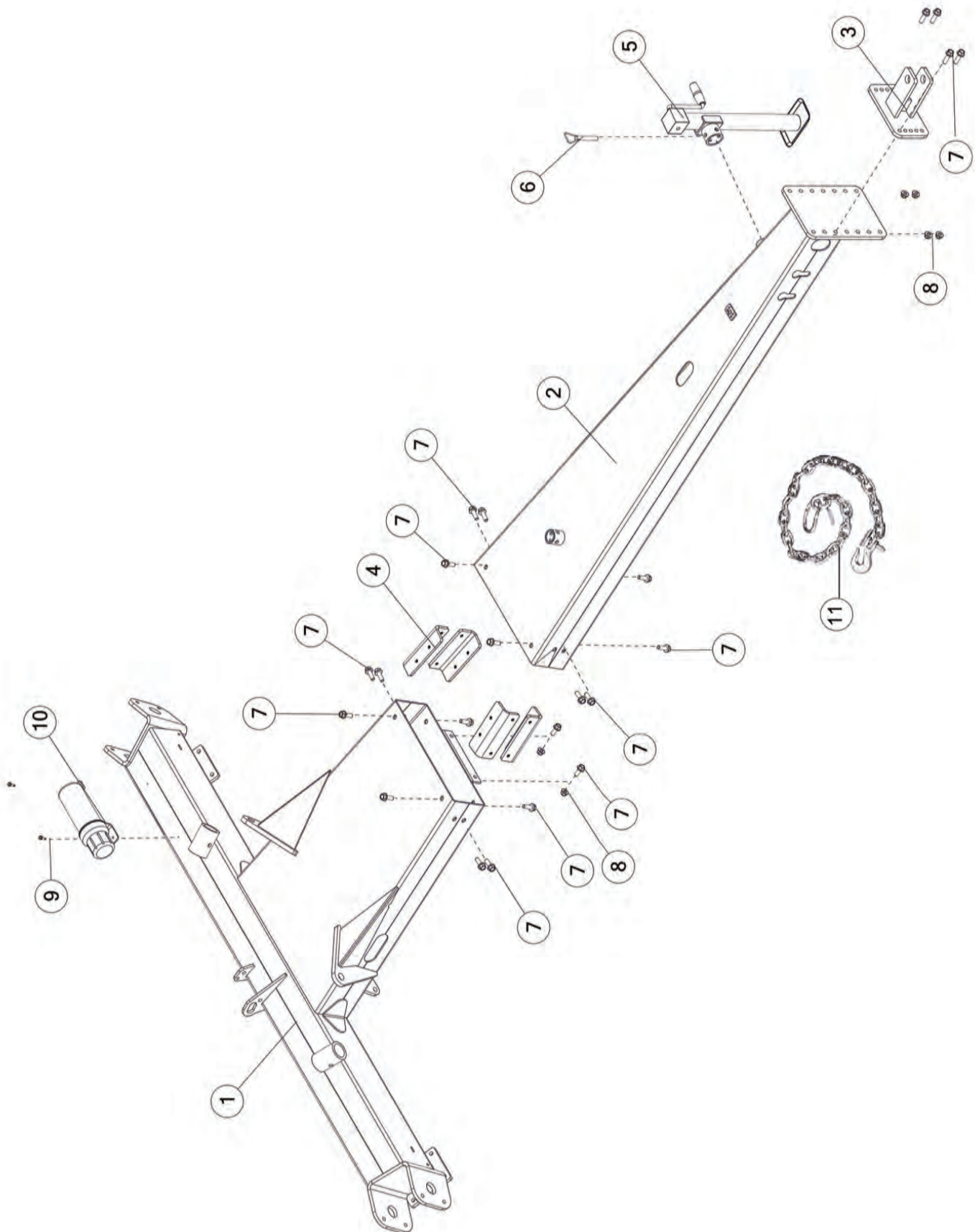






FIGURE 2
REAR FRAME & COMPONENTS

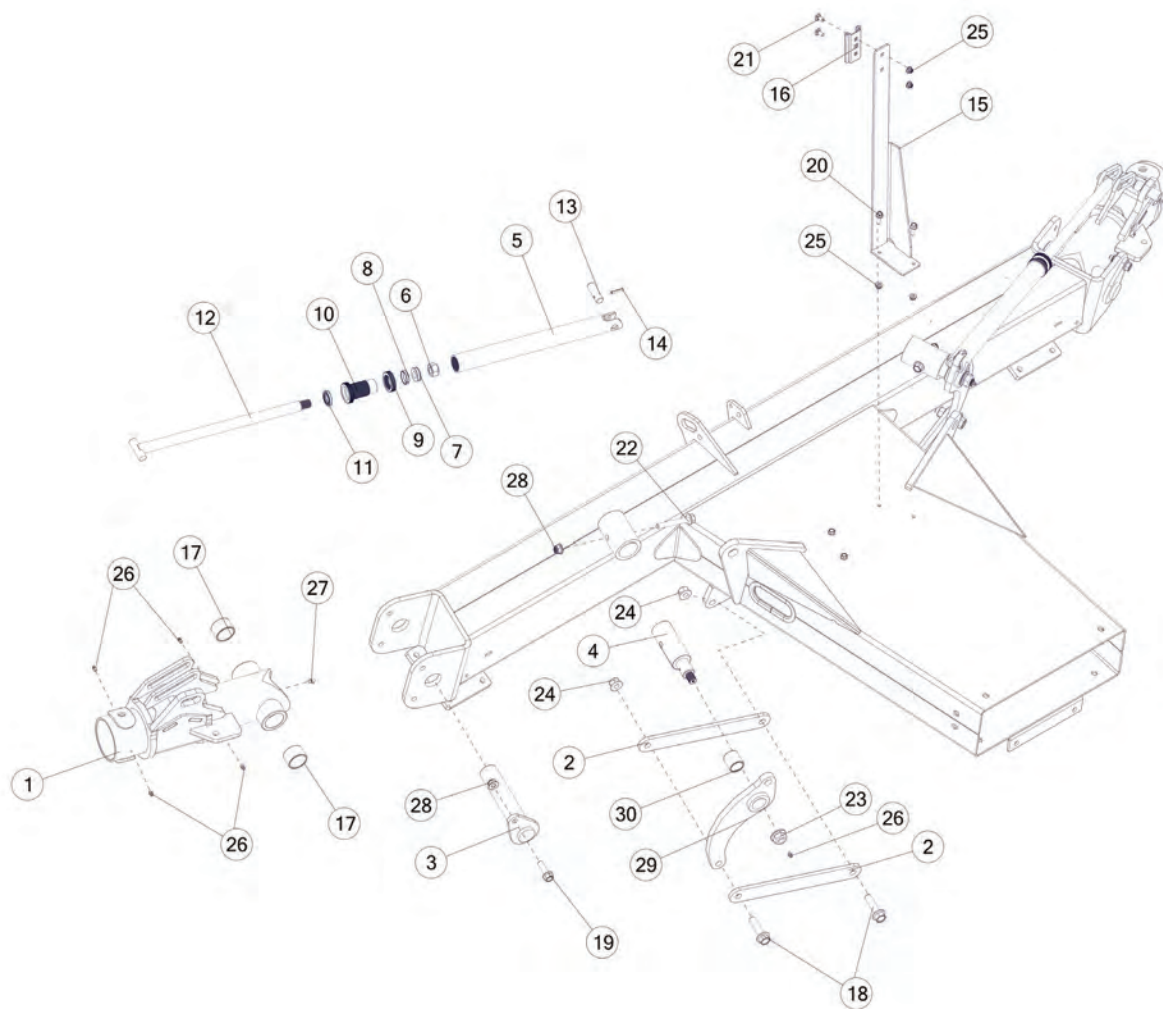


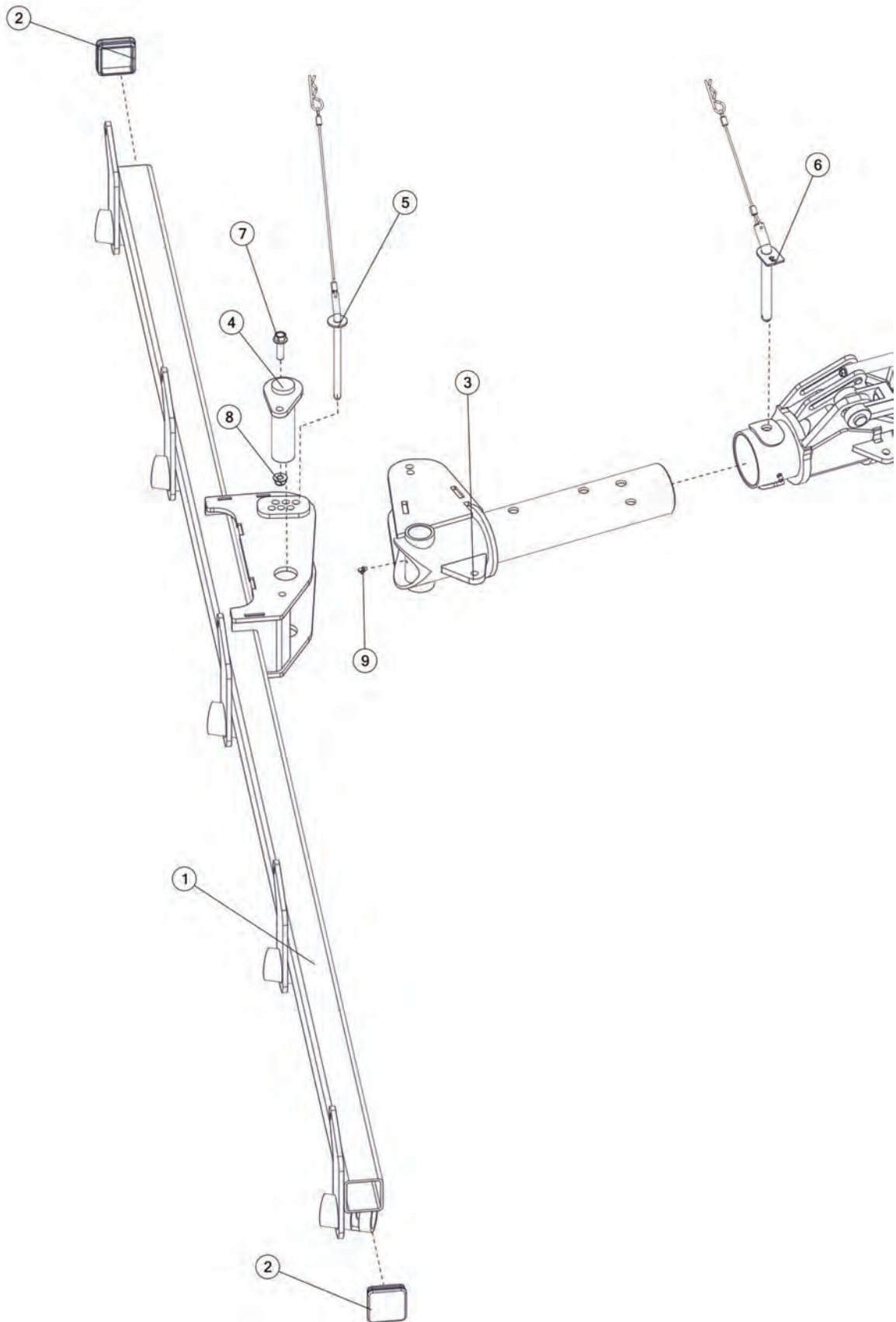


FIGURE 2

REAR FRAME & COMPONENTS

REF #	PART #	DESCRIPTION	QTY
1	89391	PIVOT, RH	1
*	89025	PIVOT, LH	1
2	90961	LINKAGE BAR	4
3	90576	PIN	1
4	89097	ROCKER PIVOT SHAFT	2
5	89150	TUBE	2
6	YNTL24006	NUT HEX, 3/4-10 LKTL C ZC	2
7	89162	PISTON	2
8	95430	WIPER RING	2
9	89163	LOCK RING	2
10	89161	BUSHING	2
11	89257	SEAL	2
12	93547	ROD	2
13	90675	LINKAGE PIN	2
14	YPEX08010	EXPANSION PIN, 1/4 X 1-1/4	2
15	96736	SMV BRACKET	1
16	F97	SMV BRACKET	1
17	TS85	BUSHING, BRONZE, 2 OD X 1.752 ID X 1.25 LONG	4
18	YBFB20250	BOLT FLANGE, 5/8 X 2-1/2 G5	4
19	YBFB16175	BOLT FLANGE, 1/2 X 1-3/4 G5	2
20	YBFB10001	BOLT FLANGE, 5/16 X 1 G5	2
21	YBCR10030	BOLT CARRIAGE, 5/16-18 X 3/4 G5 ZC	2
22	YBFB16350	BOLT FLANGE, 1/2 X 3-1/2 G5	4
23	YNFG24006	NUT HEX, FLANGED, TOP LOCK, 3/4-10 GG ZC	2
24	YNFG20005	NUT FLANGE, 5/8-11 LKTL F ZC	4
25	YNFG10005	NUT FLANGE, 5/16 GF	4
26	G89	STRAIGHT ZERK, 1/4-28	10
27	RG51	ZERK, 90 DEGREE 1/4-28	2
28	YNFG16003	NUT FLANGE, 1/2 GF	4
29	89190	ROCKER ARM	2
30	G16	BUSHING	2

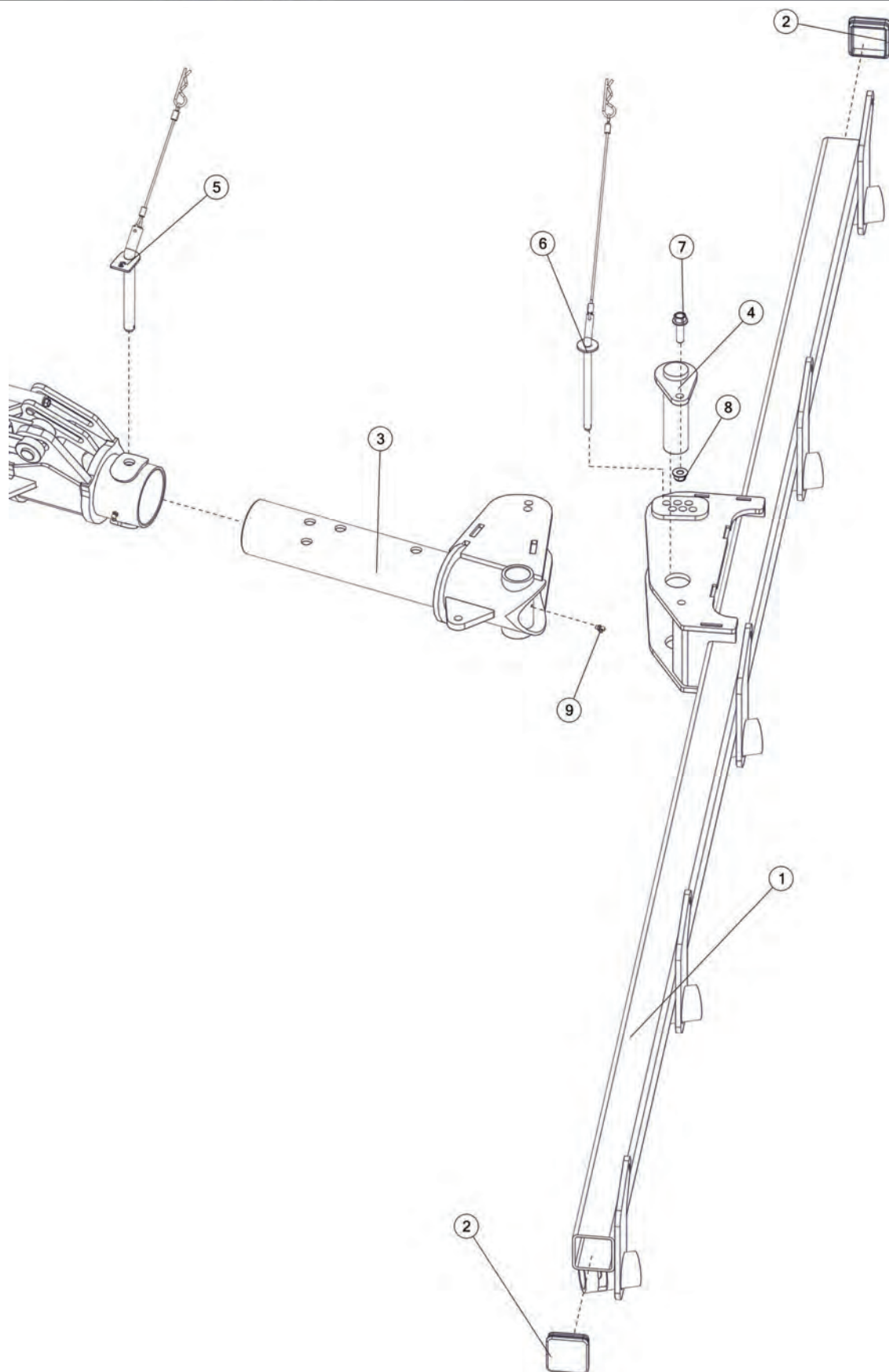


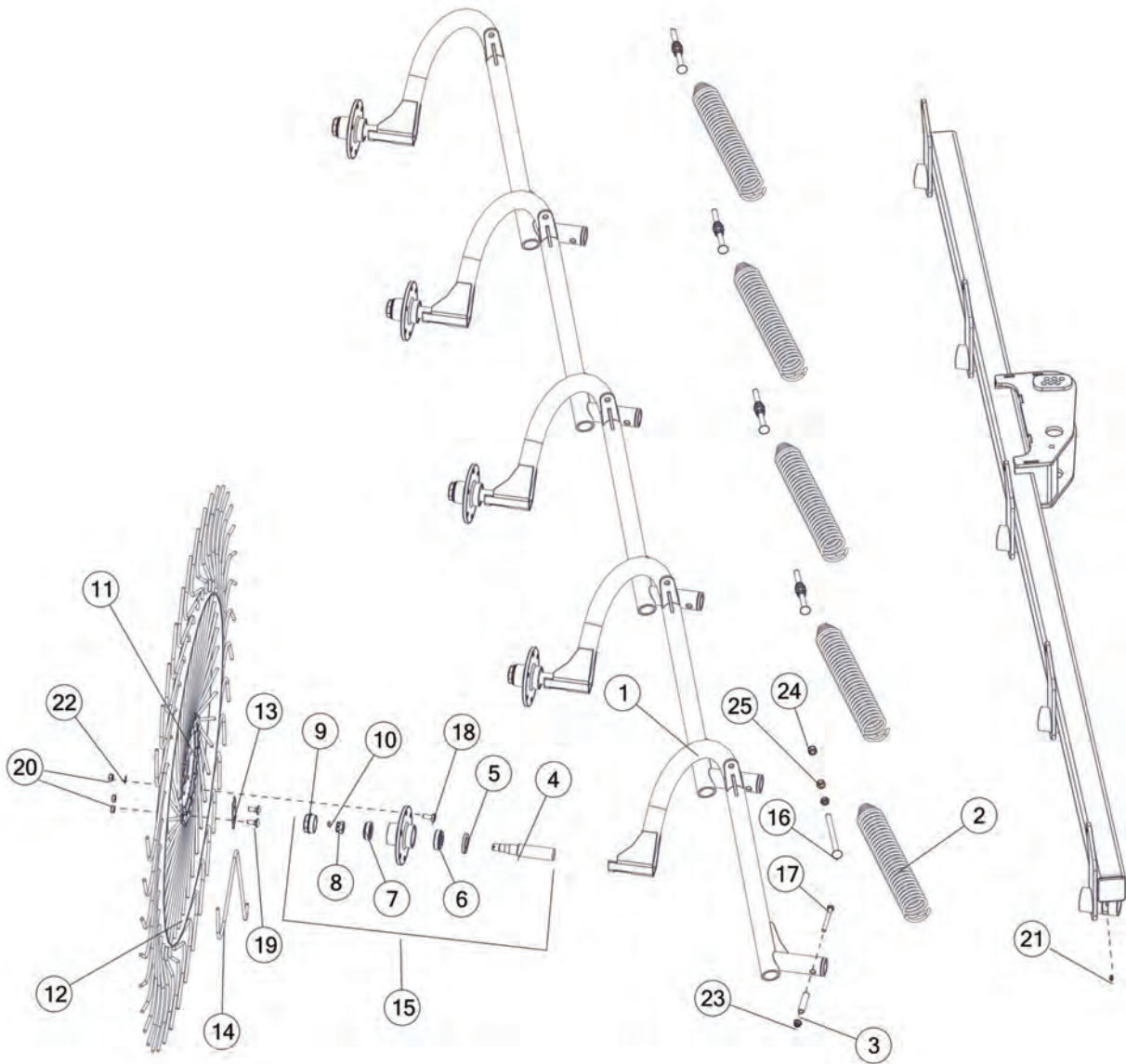




LIFT ARM & COMPONENTS RH

[illegible]





REF #	PART #	DESCRIPTION	QTY
1	75877	CANDY CANE WLDMNT, RH	5
2	75862	SPRING, EXTENSION, CANDY CANE	5
3	66247	SPACER, TUBE	5
4	BFR36	RAKE WHEEL SPINDLE	5
5	T163	SEAL	5
6	600012	TAPER BEARING, 2.05 X .75	5
7	600014	TAPER BEARING, 1.85 X .75	5
8	T172	NUT HEX, CASTLE, 18MM - 1-1/2 G2	5
9	T173	HUB CAP	5
10	1088	CLIP, RETAINING	5
11	FR70	RAKE WHEEL ONLY 60, RH	5
12	FR72	RAKE WHEEL OUTER RING, BLACK 60	5
13	FR74	RAKE TOOTH CLIP	50
14	FR73	RAKE WHEEL TOOTH, BLACK 60	200
15	1081	RAKE WHEEL HUB AND SPINDLE	5
16	YBCR16060	BOLT CARRIAGE, 1/2 X 7 G5	5
17	YBFB12300	BOLT HEX, 3/8 X 3 G5	5
18	YBHH76015	BOLT HEX, M10-1.5 X 25	30
19	YBCR76005	BOLT CARRIAGE, 10MM X 25MM	100
20	YNHX76015	NUT HEX, M10-1.5	130
21	G89	STRAIGHT ZERK 1/4-28 X 90	5
22	YWLO76015	WASHER LOCK, M10	30
23	YNFG12005	NUT FLANGE, 3/8 GF	6
24	YNFG16003	NUT FLANGE, 1/2	6
25	YNJM16005	NUT JAM,1/2	10





FIGURE 6
CANDY CANE & RAKE WHEEL COMPONENTS LH

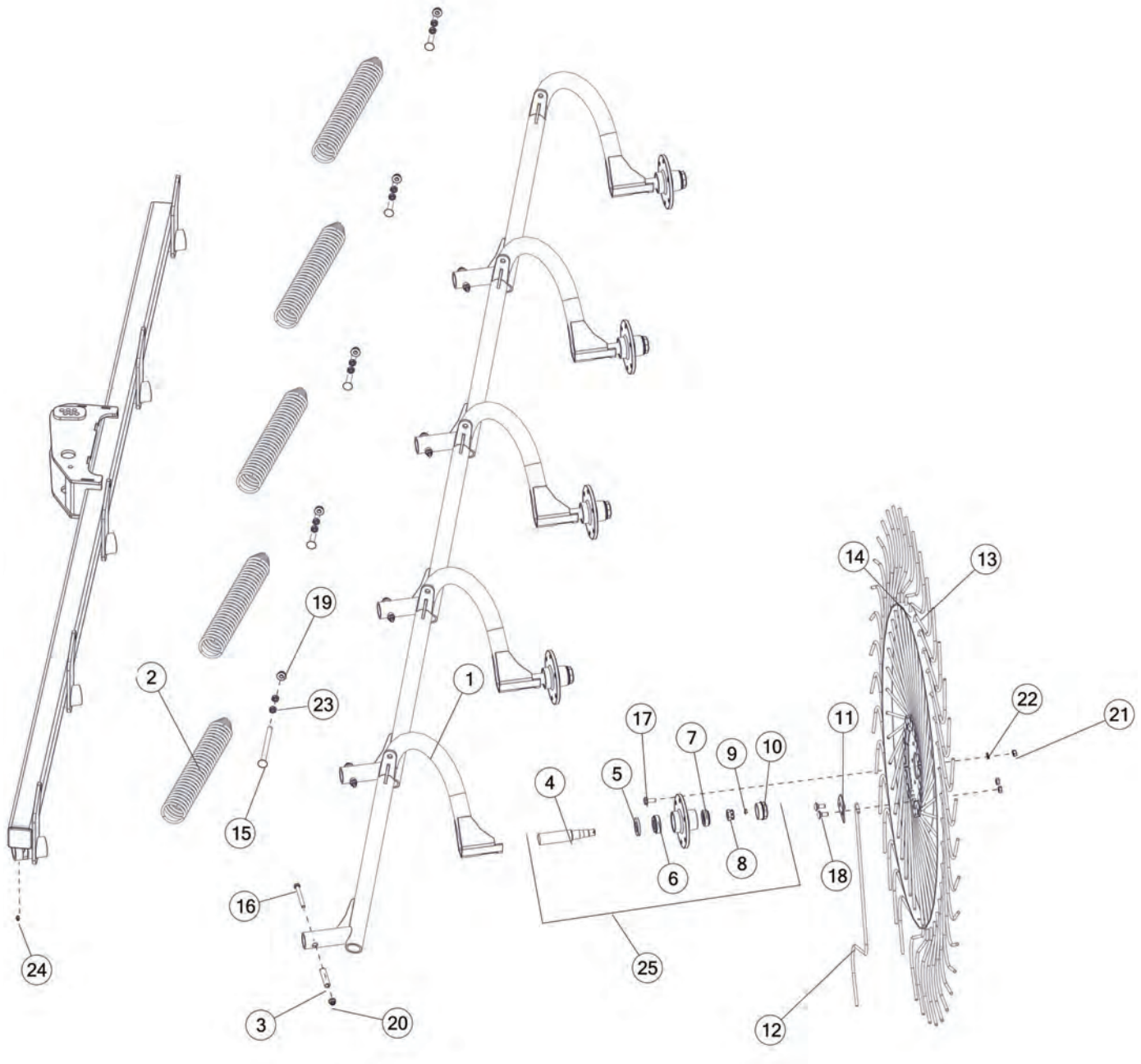




FIGURE 6

[illegible]



FIGURE 7
AXLE & HUB COMPONENTS

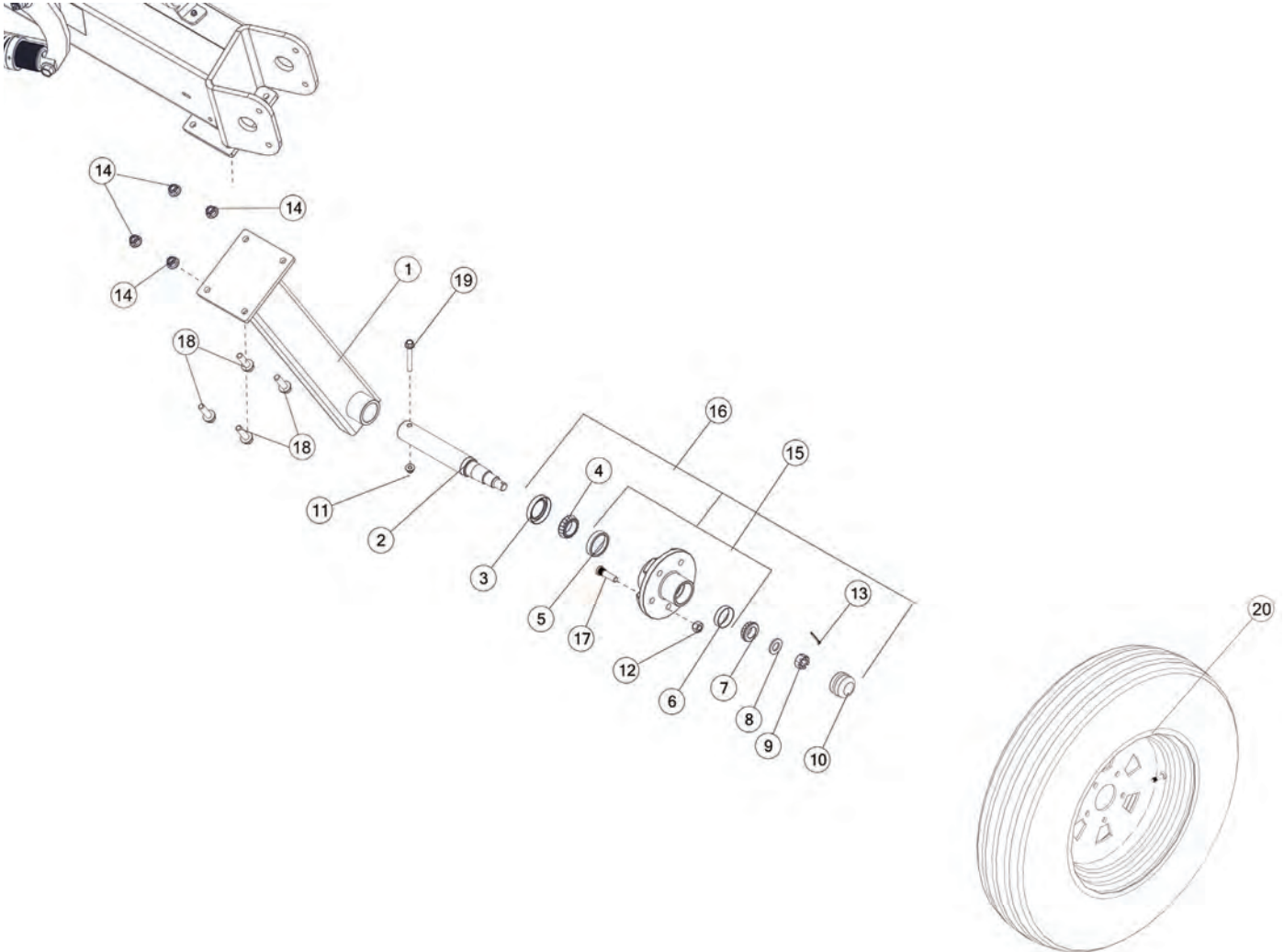




FIGURE 8
HYDRAULICS

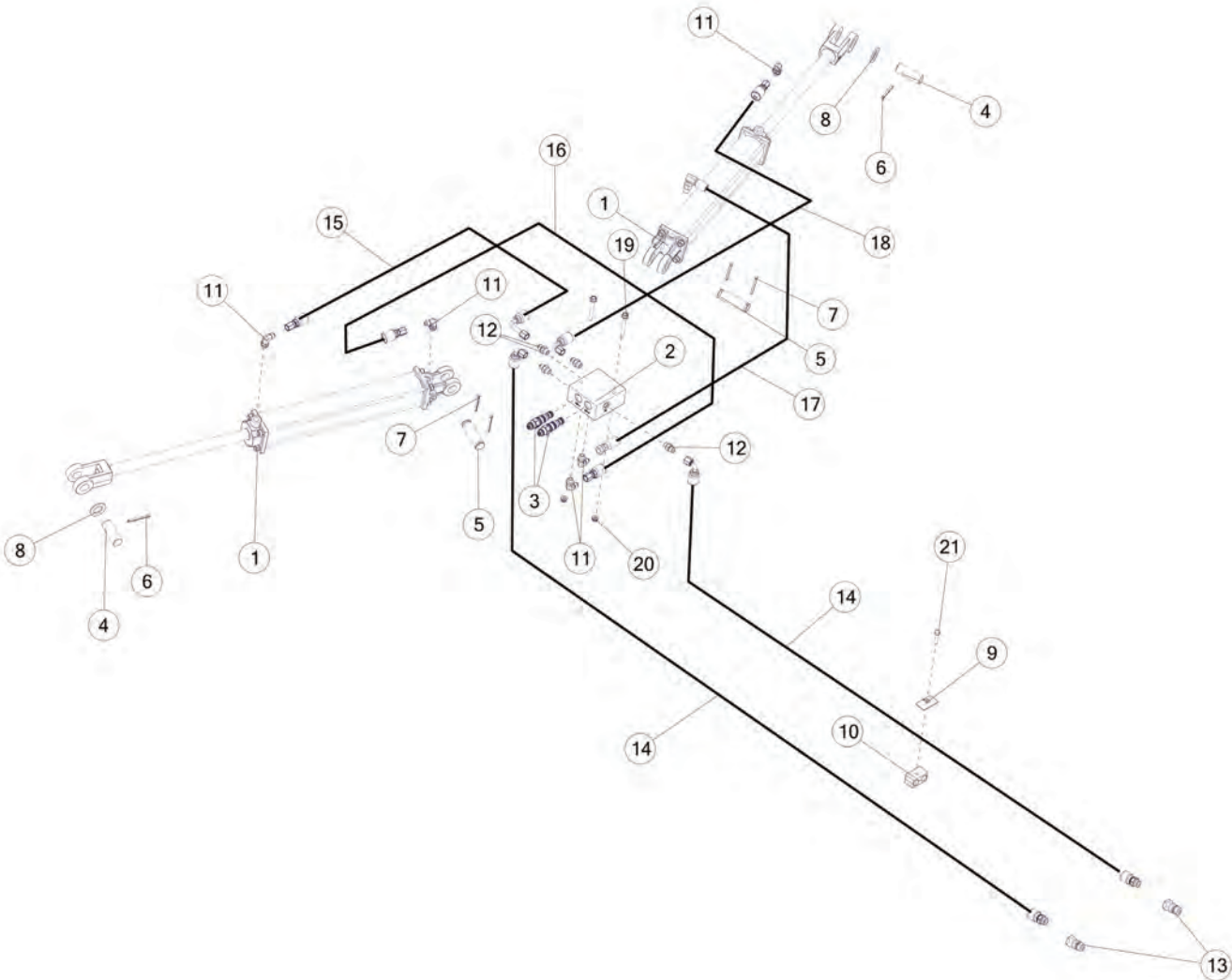


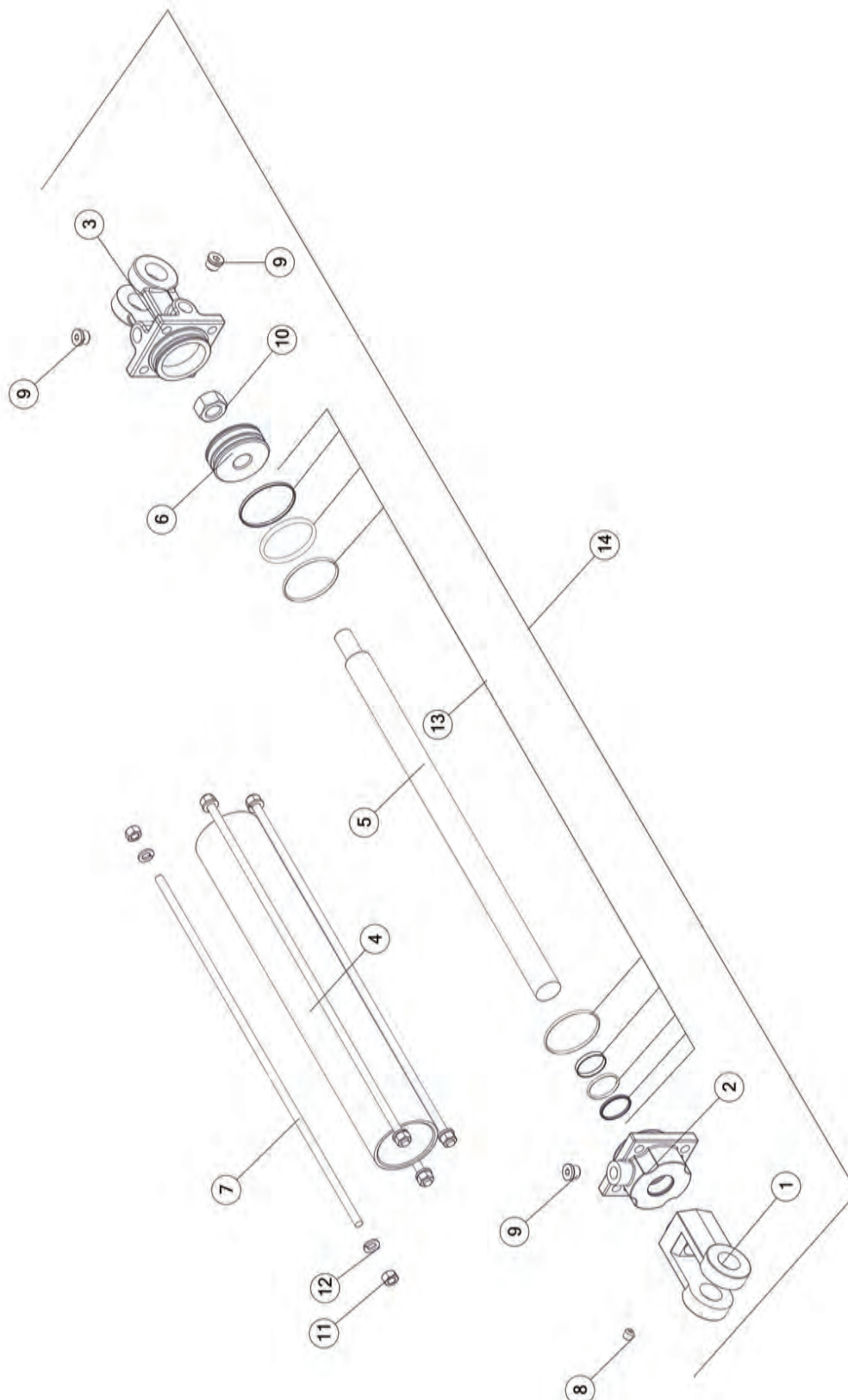


FIGURE 8

HYDRAULICS

REF #	PART #	DESCRIPTION	QTY
1	93155	HYDRAULIC CYLINDER, 2-1/2 X 16	2
2	60426	HYDRAULIC MANIFOLD	1
3	66920	CARTRIDGE, COUNTERBALANCE	2
4	23N107	CYLINDER PIN	2
5	T143	HYDRAULIC CYLINDER PIN	2
6	YPCT07005	COTTER PIN, 7/32 X 2	2
7	YPCT06020	COTTER PIN, 3/16 X 2	4
8	16SV136	WASHER, FLAT, 1.75 X 1.02 X 0.13 ZC	2
9	56563	CLAMP TOP PLATE	1
10	CHM278	TWO LINE CLAMP BLOCK, 3/8	1
11	CHM268	FITTING, 90, 6JIC X 6ORB	5
12	CHM257	FITTING, ST, 6JIC X 6ORB STL	4
13	67148	FITTING, ST, 8ORB, QUICK COUPLER TIP	2
14	89342	HYDRAULIC HOSE, 6, 206	2
15	96499	HYDRAULIC HOSE, 6, 74	1
16	96498	HYDRAULIC HOSE, 6, 65	1
17	70094	HYDRAULIC HOSE, 6, 34	1
18	96497	HYDRAULIC HOSE, 6, 38	1
19	YBFB10275	BOLT FLANGE, 5/16 X 2-3/4 G5	2
20	YNFG10005	NUT FLANGE, 5/16 GF	2
21	56568	CLAMP BOLT, 5/16-18 x 1-3/8	1







CYLINDER

[illegible]

FIGURE 10

OPTIONAL CENTER KICKER WHEEL

(ARO2CKW)

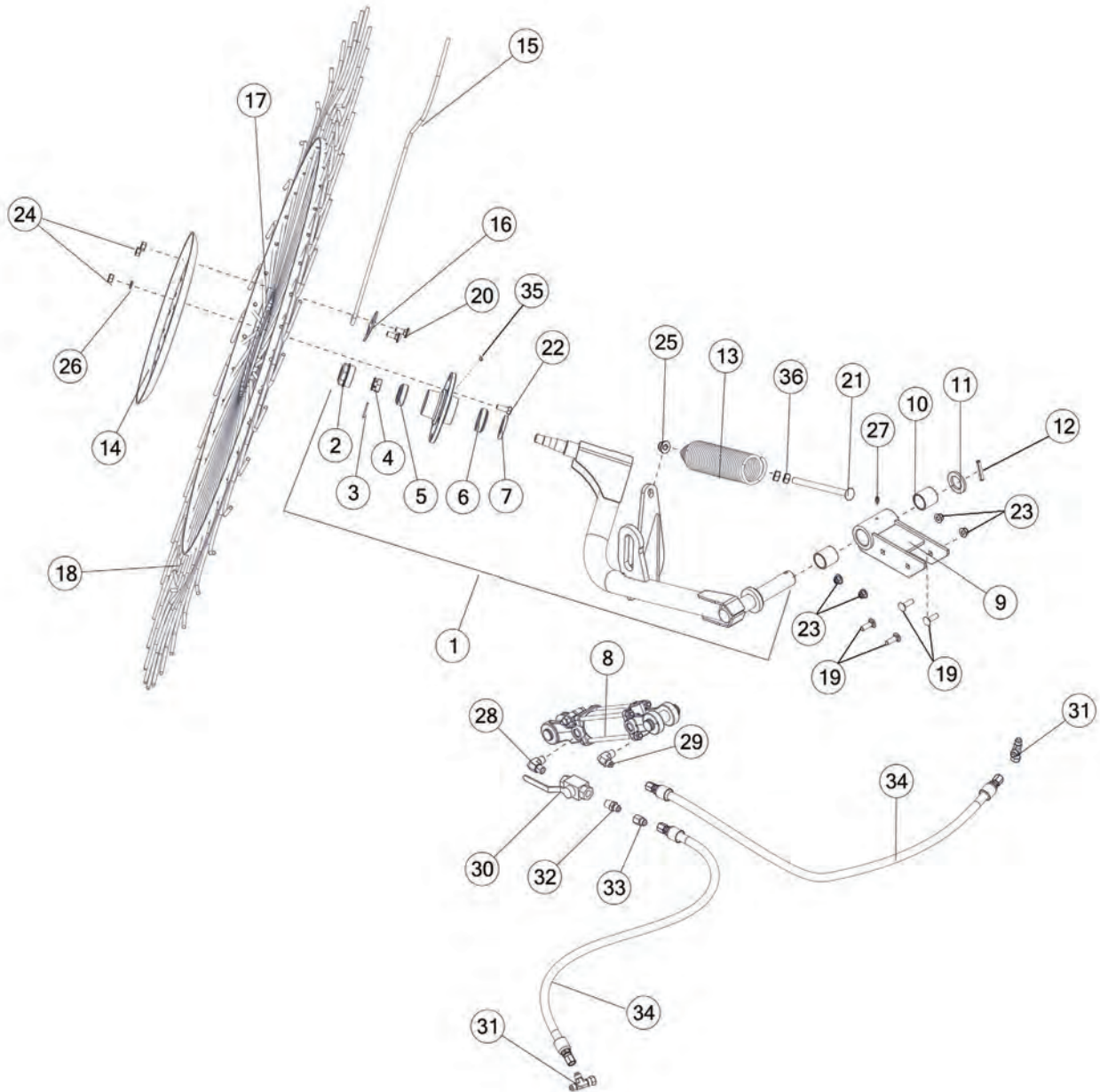




FIGURE 10

OPTIONAL CENTER KICKER WHEEL (ARO2CKW)

REF #	PART #	DESCRIPTION	QTY
1	89474	REAR CANDY CANE	1
2	T173	CAP, HUB, RAKE WHEEL	1
3	1088	CLIP, RETAINING	1
4	T172	NUT, HEX, 18MM - 1.5, CASTLE, G2, NF	1
5	600014	TAPER BEARING, 1.85 X .75 COMPLETE	1
6	600012	TAPER BEARING, 2.05 X .75 COMPLETE	1
7	T163	SEAL, 2.05 X 1.25 X .25	1
8	89481	HYDRAULIC CYLINDER, 2 X 4	1
9	89470	KICKER WHEEL MOUNT	1
10	G16	BUSHING, BRONZE	2
11	BFR229	WASHER, SHIM .185 X 1.281 ID X 2 OD	1
12	YPEx10015	EXPANSION PIN, 5/16 X 1-3/4	1
13	75862	SPRING, EXTENSION, CANDY CANE	1
14	FR71	RAKE WHEEL CENTER 60 IN BLACK	1
15	FR73	BIGGY RAKE WHEEL TOOTH, 60 IN BLACK	40
16	FR74	RAKE TOOTH CLIP BLACK	10
17	FR72	RAKE WHEEL BAND, 60 IN BLACK	1
18	FR70	RH RAKE WHEEL COMPLETE, 60	1
19	YBCR12020	BOLT CARRIAGE, 3/8-16 X 1-1/4 G5 ZC	4
20	YBCR76005	BOLT CARRIAGE, M10-1.5 X 25MM 8.8 NF	20
21	YBCR16060	BOLT CARRIAGE, 1/2-13 X 7 G5 ZC	1
22	YBHH76015	BOLT HEX, M10-1.5 X 25 10.9 ZC	6
23	YNFG12006	NUT FLANGE, 3/8 GF	4
24	YNHX76015	NUT HEX, M10-1.5 NA CL10 ZC	26
25	YNFG16003	NUT FLANGE, 1/2 GF	1
26	YWLO76015	WASHER, LOCK, M10	6
27	G89	STRAIGHT ZERK, 1/4-28	1
28	8002	3/8 NPT MALE TO MALE ELBOW	1
29	CHM164	FITTING, 90, 6JIC X 3/8NPT	1
30	59235	BALL VALVE, 3/8 HIGH PRESSURE	1
31	CHM242	FITTING TEE, 6JIC X 6JIC X 6JIC	2
32	CHM202	FITTING, ST, 06JIC, 06NPT	1
33	58144	IN-LINE CONNECTOR, ORIFICE, 6-XHX7-S .062	1
34	93195	HYDRAULIC HOSE, 6, 40.5	2
35	600034	GREASE NIPPLE	1
36	YNJM16005	NUT JAM, 1/2 A	2





FIGURE 11
OPTIONAL LIGHTS (AROLIGHT2)

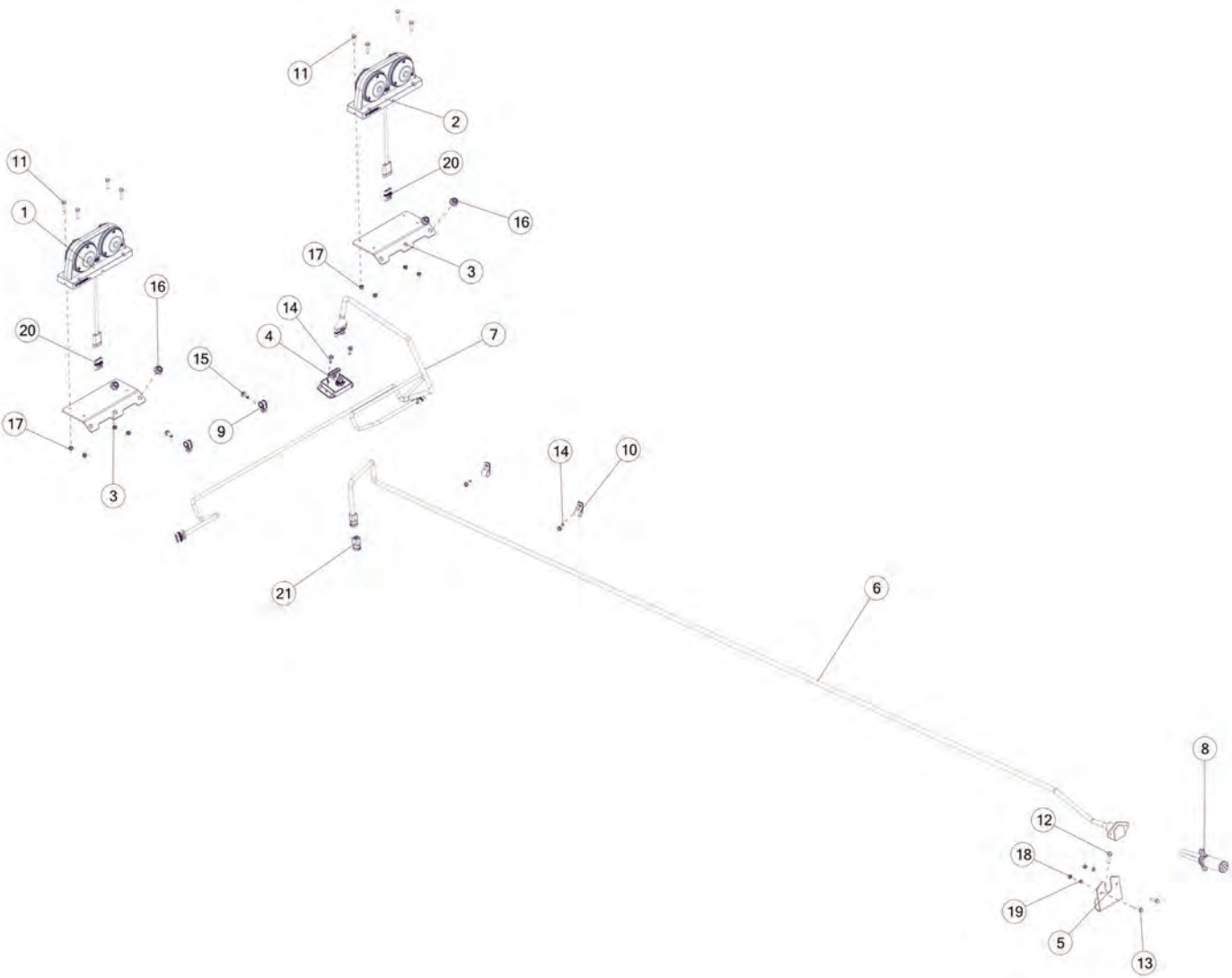




FIGURE 11
OPTIONAL LIGHTS (AROLIGHT2)

REF #	PART #	DESCRIPTION	QTY
1	77924	TAIL LIGHT ASSY, RH	1
2	77923	TAIL LIGHT ASSY, LH	1
3	96052	LIGHT BRACKET	2
4	69908	MODULE, CONTROL, BLINKER	1
5	BFR659	LIGHT BRACKET	1
6	77986	LIGHT HARNESS	1
7	77990	ELEC HARNESS, LIGHT, REAR	1
8	TLPC	TRANSPORT LIGHT CORD	1
9	HGV162	RUBBER WIRE HOLDER, 1/2	2
10	HGV72	CUSHION WIRE CLAMP 3/4	2
11	YBHH08030	BOLT HEX, 1/4 X 1-1/4 GR 2	8
12	56568	CLAMP BOLT 5/16-18 x 1-3/8	1
13	YBHH08005	BOLT HEX, 1/4 X 1 GR 2	2
14	YSDR08005	SELF DRILL SCREW, HEX WASH HD, 1/4-14 X 1 ZC	4
15	YSHW10034	THREAD CUTTING SCREW, 5/16 X 3/4	2
16	YNFG16003	NUT FLANGE, 1/2 GF	4
17	YNNY08005	NUT HEX, 1/4-20 LKNY G2 ZC	8
18	YNHX08005	NUT HEX, 1/4-20 NAA ZC	2
19	YWLO08005	WASHER, LOCK, 1/4 ZC	2
20	74269	ELEC, WTHRPK, 4 WAY , FEMALE	2
21	75000	ELEC, WTHRPK, 4 SQ, MALE	1





FIGURE 12
OPTIONAL TANDEM AXLE ASSEMBLY
(ARO3TA)

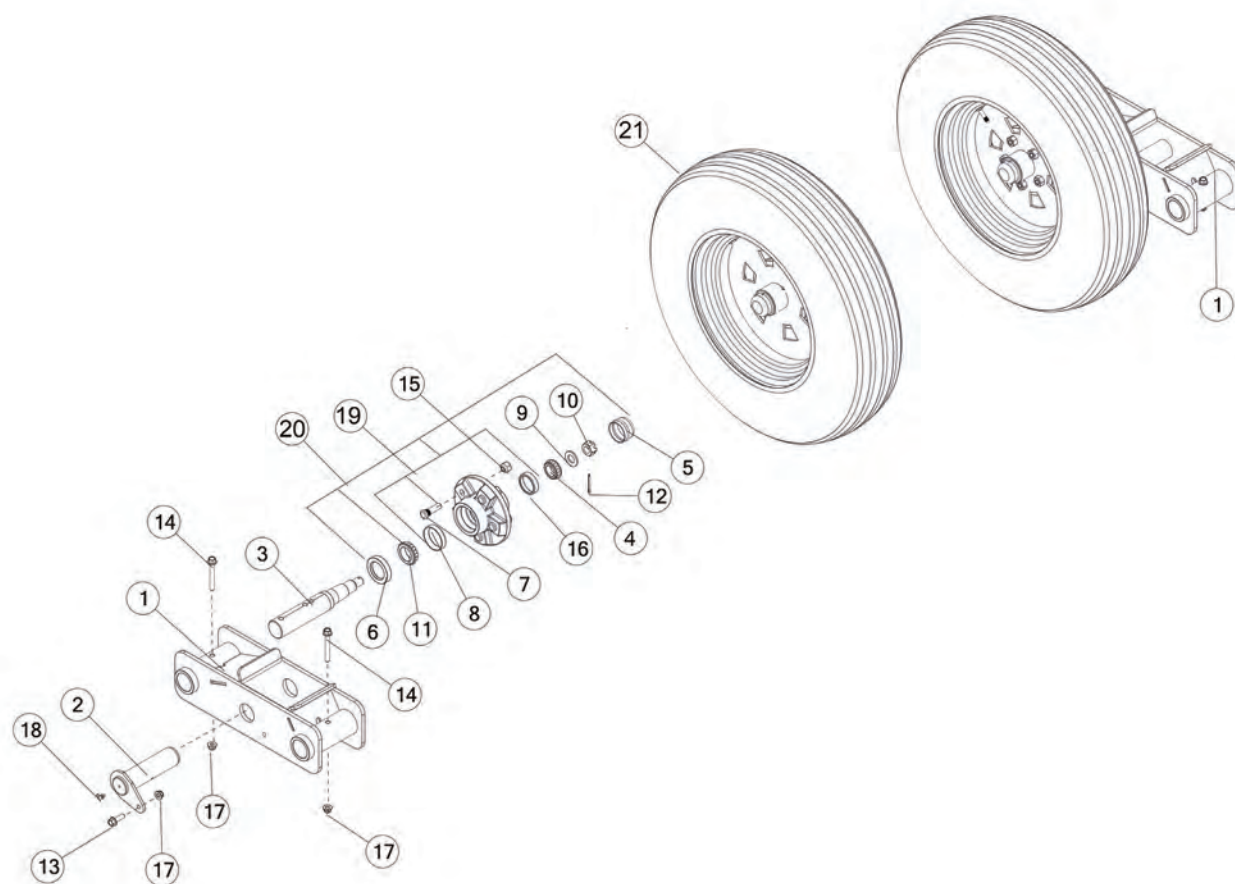




FIGURE 12

OPTIONAL TANDEM AXLE ASSEMBLY (ARO3TA)

REF #	PART #	DESCRIPTION	QTY
1	89466	WALKING BEAM AXLE	2
2	89490	WALKING BEAM PIN	2
3	88062	SPINDLE	2
4	CAT10	BEARING	2
5	CAT46	CAP, HUB	2
6	CAT5	GREASE SEAL	2
7	YBSD16005	BOLT STUD, 1/2 X 1-7/8 G5	10
8	CAT7	INNER RACE	2
9	YWFL24010	WASHER, FLAT, SAE 3/4, PLAIN	2
10	YNSL24010	NUT SLOT, 3/4-16 NA G2 NF	2
11	CAT6	BEARING	2
12	YPCT05010	COTTER PIN, 5/32 X 1-1/2	2
13	YBFB12125	BOLT FLANGE, 3/8 X 1-1/4 G5	2
14	YBFB12300	BOLT FLANGE, 3/8 X 3 G5	4
15	YNWL16005	NUT WHEEL, 1/2-20 NA G5 ZC	10
16	BFR275	RACE	2
17	YNFG12006	NUT FLANGE, 3/8 GF	6
18	RG51	ZERK, 90 DEGREE 1/4-28	2
19	CAT8	HUB, 545, 5 BOLT, 1250 LBS, WITH RACES	2
20	10WR49	GROUND WHEEL HUB W/CUPS	2
21	8605SR	205/75D15 LRC BIAS TIRE ON 15X5 SILVER WHEEL	2





FIGURE 13
OPTIONAL ONE-SIDED RAKING
(AROVK)

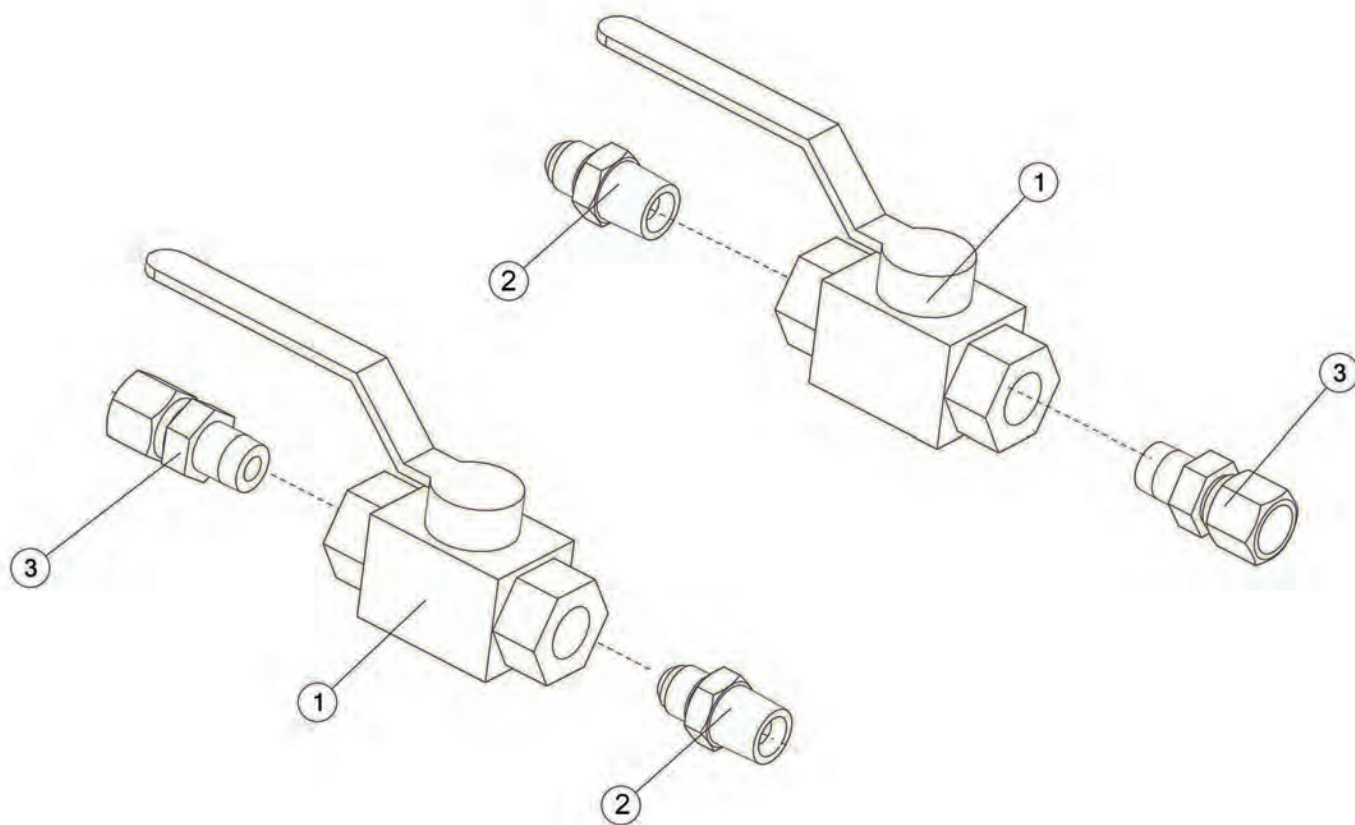
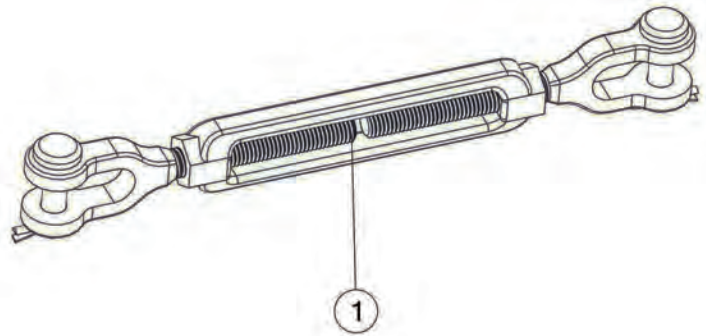
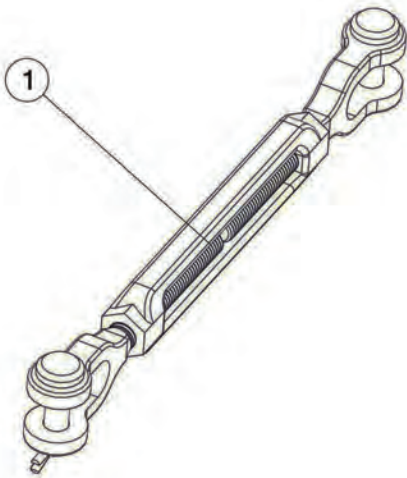




FIGURE 14
OPTIONAL TURNBUCKLE ADJUSTMENT
(AROTAK)





PARTS NOTES

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H & S MFG. CO.

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for the

FEMA

SEAL OF QUALITY



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