



PARTS BOOK

FLAIL HEADS

• 50" CUT, REVERSE • BOOM MOUNT • 5.10.18 •

DIAMOND MOWERS, LLC
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Foreword

This manual contains the parts breakdown and identification of the various components and structures that make up your mower implement.

The illustrations, drawings, and diagrams in this manual are based on the latest information available at the time of publication. Your machine may have product improvements and features not yet contained in this parts manual.

Diamond Mowers, LLC reserves the right to make changes at any time without notice or obligation.

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This manual should be consulted prior and while assembling the unit, and anytime parts or assembly clarification is needed.

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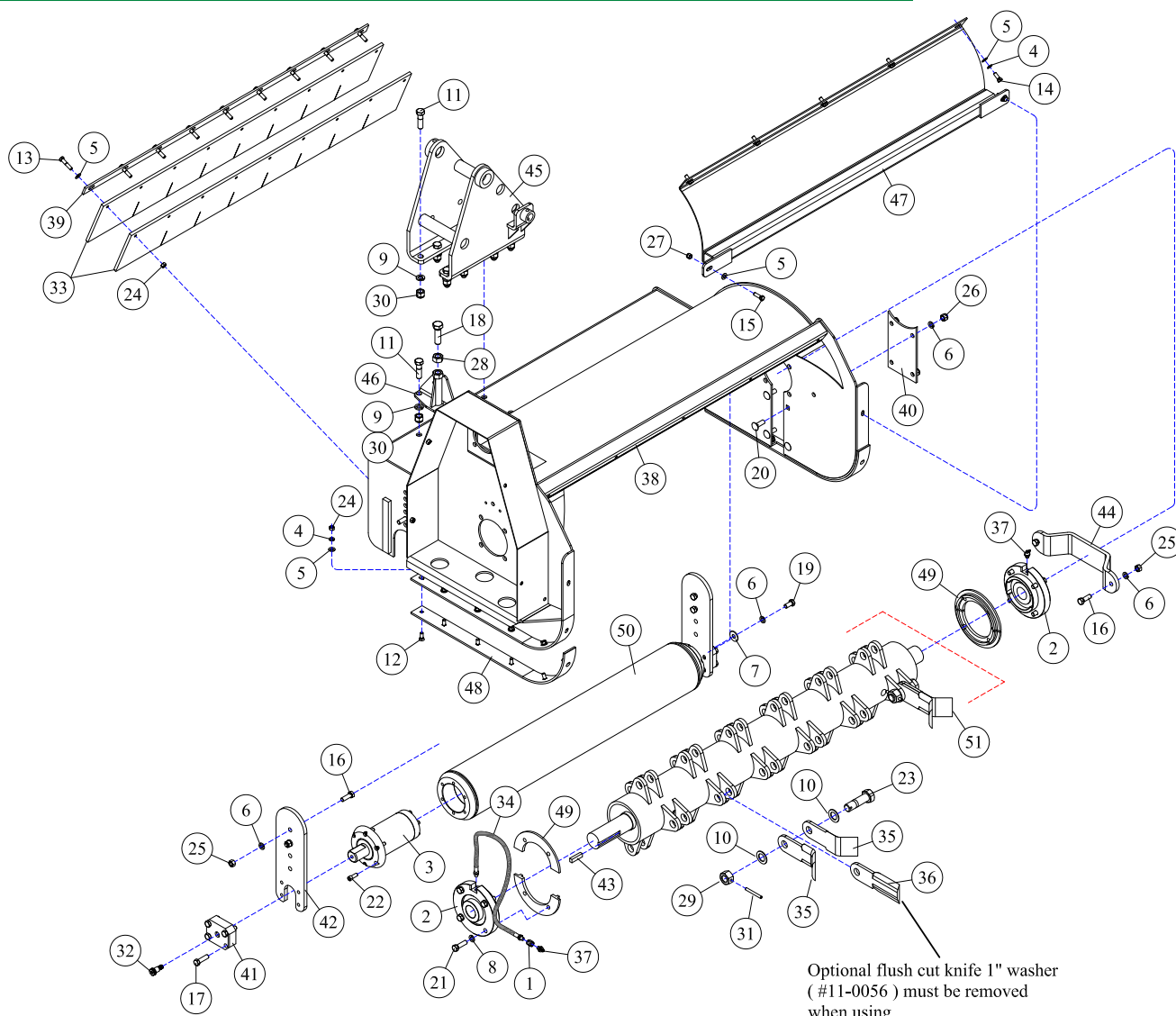
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FLAIL HEADS

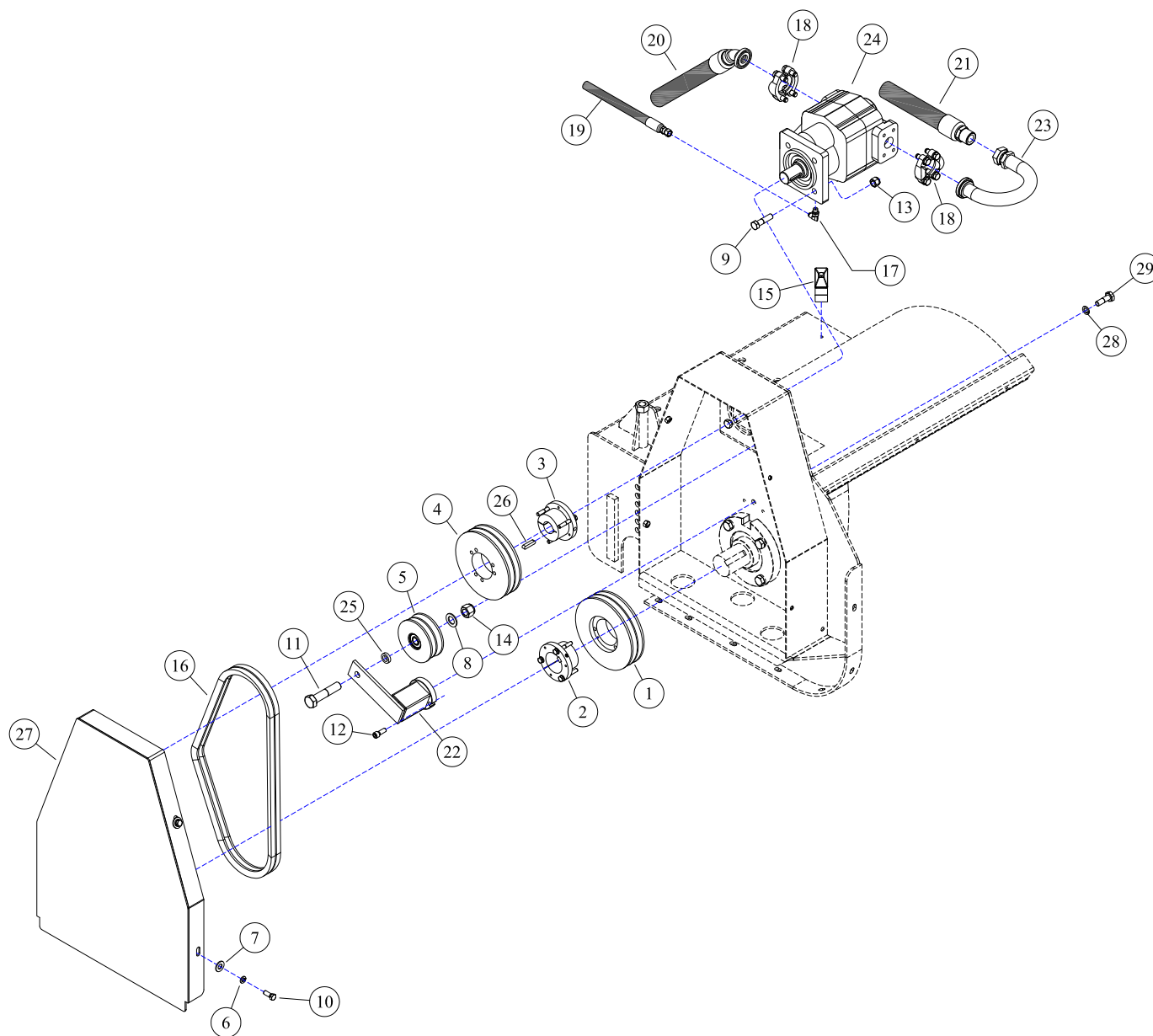


BOOM FLAIL HEAD - 50" CUTTER ASSEMBLY, SINGLE TRAP DOOR, REVERSE



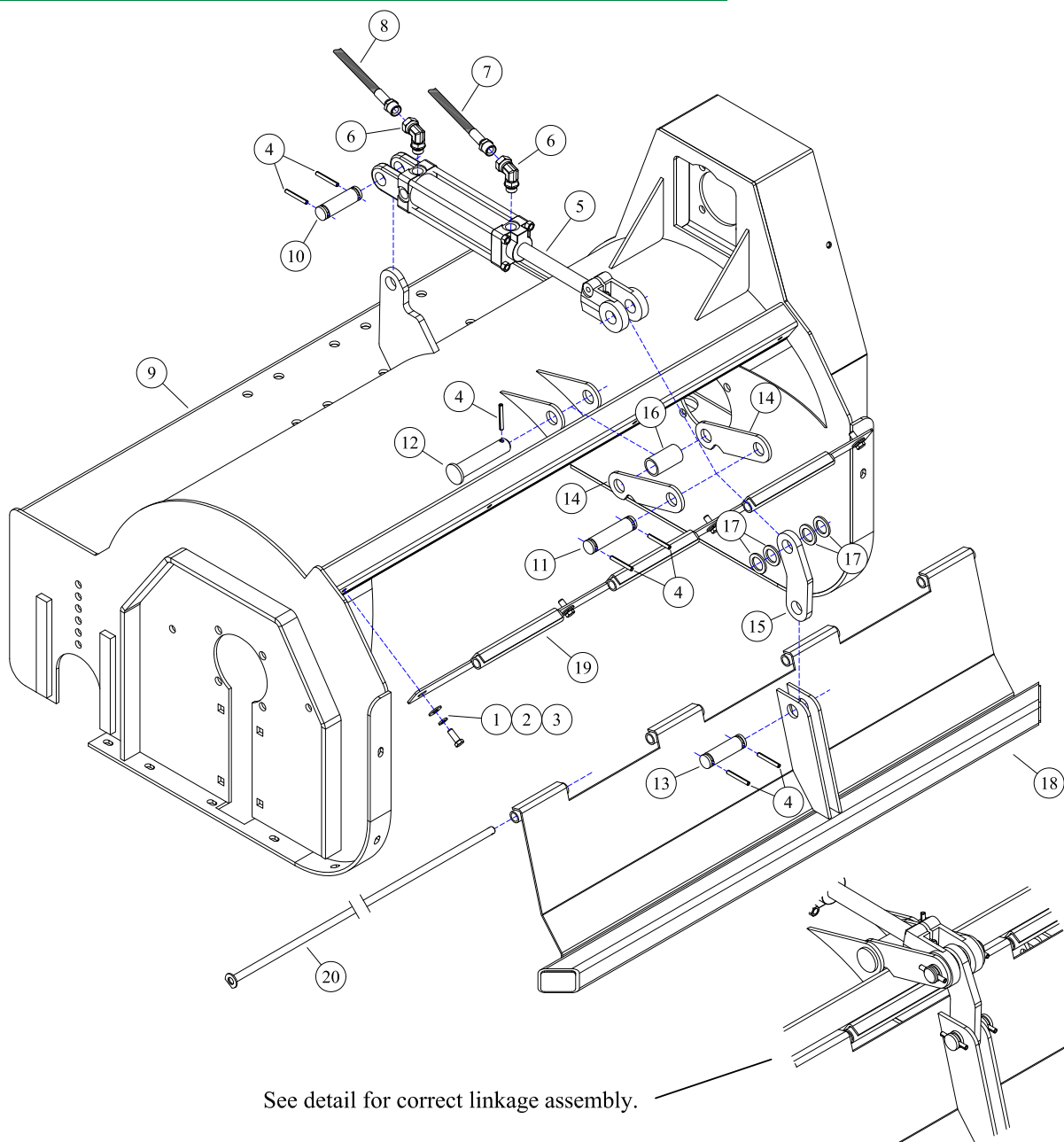
REF#	PARTS DESCRIPTION	REQ	PART #
1	1/8" BRASS COUPLER	1	9996
2	CUTTER SHAFT BEARING	2	10-0006
3	GROUND ROLLER BEARING ASSY	2	10-1051
4	3/8 LOCK WASHER	17	11-0005
5	3/8 FLAT WASHER	28	11-0009
6	1/2 LOCK WASHER	11	11-0011
7	1/2 FLAT WASHER GR 5	1	11-0018
8	1/2 H.S. LOCK WASHER	8	11-0036
9	5/8 H.S. LOCK WASHER	10	11-0043
10	1 SAE H.S. FLAT WASHER	48	11-0056
11	5/8 X 2 H.S. NF HEX CAPSCREW	10	11-0508
12	3/8 X 1 NC PLOW BOLT	12	11-0511
13	3/8 X 1-1/2 NC HEX CAPSCREW	9	11-0529
14	3/8 X 1 NC HEX CAPSCREW	5	11-0532
15	3/8 X 1-1/4 NC HEX CAPSCREW	2	11-0533
16	1/2 X 1-1/2 NC HEX CAPSCREW	6	11-0534
17	1/2 X 1-3/4 NC HEX CAPSCREW	8	11-0535
18	3/4 X 2-1/2 NC HEX CAPSCREW	1	11-0563
19	1/2 X 1 NC HEX CAP	1	11-0569
20	1/2 X 1-1/2 NC CARRIAGE BOLT	4	11-0608
21	1/2 X 1-3/4 H.S. NF HEX CAPSCREW	8	11-0664
22	3/8 X 1 H.S. NC SKT HEAD	12	11-0752
23	1 X 3-1/2 SPECIAL CTR SHF BOLT	24	11-0757
24	3/8 NC HEX NUT	21	11-1001
25	1/2 NC HEX NUT	6	11-1016
26	1/2 NC NYLOCK NUT	4	11-1018

REF#	PARTS DESCRIPTION	REQ	PART #
27	3/8 NC NYLOCK NUT	2	11-1024
28	3/4 NC HEX NUT	1	11-1033
29	1 NC SLOTTED JAM NUT	24	11-1054
30	5/8 H.S. NF STOVER NUT	10	11-1143
31	1/4 X 2 ROLL PIN	24	11-2005
32	SHOULDER BOLT	1	11-2086
33	FLAP	2	18-0015
34	GREASE ZERK HOSE	1	21-0002
35	FLAIL KNIFE, HEAVY DUTY BRUSH	48	22-1017
36	FLUSH CUT KNIFE	24	22-1021
37	1/8" GREASE ZERK	2	23-0003
38	LEFT 50" BOOM FLAIL BONNET	1	25-0173
39	FLAP BAR	1	41-0030
40	COVER PLATE	1	31-0198
41	GROUND ROLLER BLOCK	2	31-0563
42	GROUND ROLLER BRKT PLATE 44/50	2	31-0579
43	CUTTER SHAFT KEY	1	37-0021
44	CUTTER SHAFT GUARD	1	41-0069
45	REVERSE MAST	1	41-0916
46	DECK ROLL STOP	1	41-0473
47	FRONT SHIELD	1	41-0124
48	SKID SHOE	2	42-0014
49	BEARING GUARD	4	46-0018
50	50" GROUND ROLLER	1	46-0053
51	CUTTER SHAFT COMPLETE	1	46-1017
52	BLADE KIT (Includes 10, 23, 29, 31, & 35)	1	44-0229

BOOM FLAIL HEAD - 50" DRIVE ASSEMBLY, REVERSE

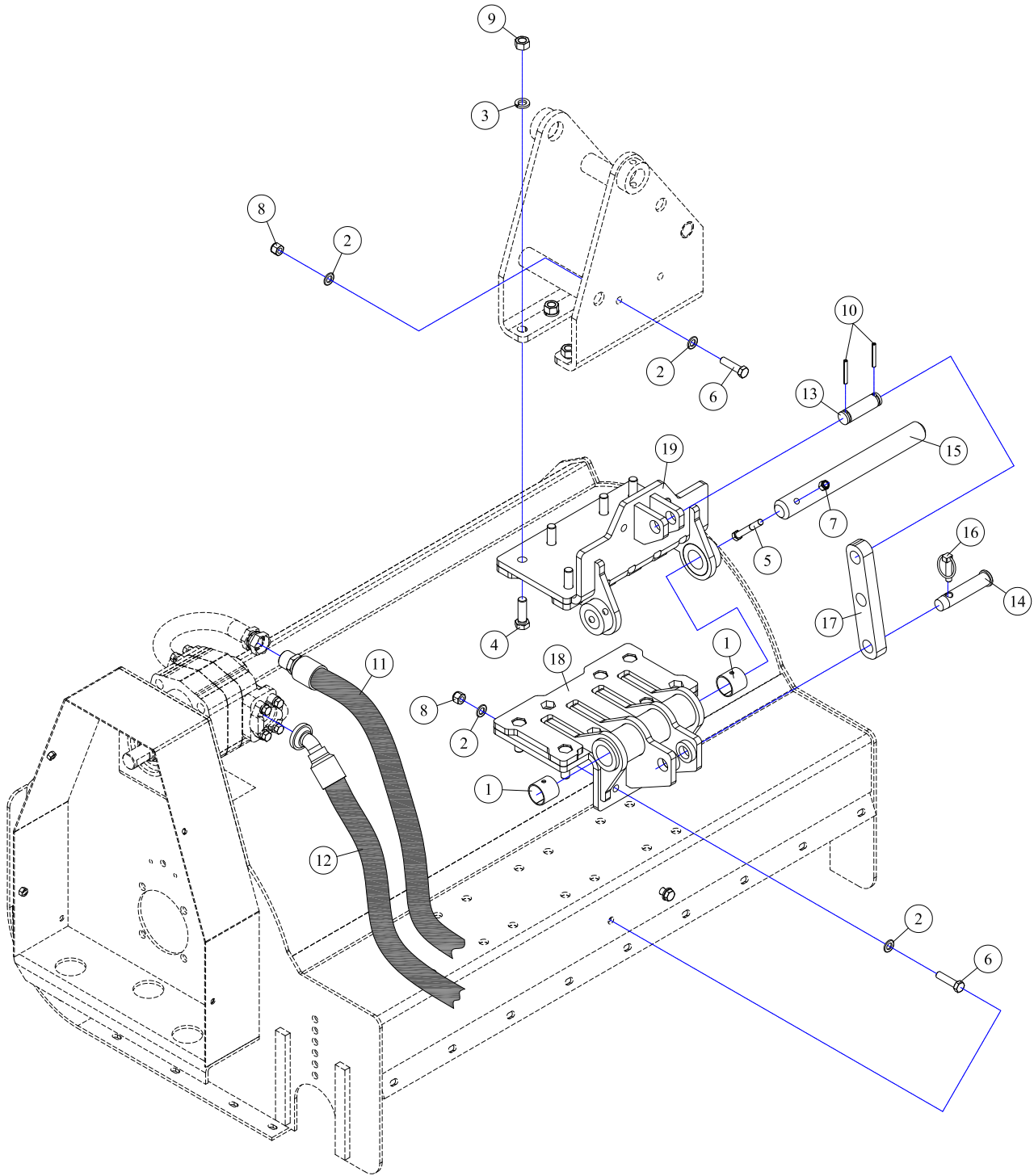
REF#	PARTS DESCRIPTION	REQ	PART #
1	PULLEY, 7.5"	1	10-1008
2	2-3/16" TAPERLOCK BUSHING	1	10-1012
3	1-1/4" TAPERLOCK BUSHING	1	10-1014
4	PULLEY, 7.1"	1	10-1015
5	SHEAVE IDLER ASSEMBLY	1	10-1016
6	3/8 LOCK WASHER	4	11-0005
7	3/8 FLAT WASHER	4	11-0009
8	3/4 FLAT WASHER	1	11-0010
9	1/2 X 2 NC HEX CAPSCREW	4	11-0522
10	3/8 X 1 NC HEX CAPSCREW	4	11-0532
11	5/8 X 3-1/2 NC HEX CAPSCREW	1	11-0512
12	3/8 X 1 H.S. SOCKET HEAD	1	11-0752
13	1/2 NC NYLOCK NUT	4	11-1018
14	5/8 NC NYLOCK NUT	1	11-1025
15	CLAMP, DOUBLE TUBE	1	11-2008

REF#	PARTS DESCRIPTION	REQ	PART #
16	DOUBLE BELT 560	1	12-0020
17	1/4MJIC X 1/4MORB 90DEG, ADAPTER	1	21-1264
18	FLANGE KIT	2	21-2105
19	HOSE 3/8 X 75 (1/4FJIC X 1/2MJIC)	1	21-4324
20	HOSE 1 X 71 (#20FLG-45DEG X 1FJIC)	1	21-2847
21	HOSE 1 X 77 (1MP X 1FJIC)	1	21-2848
22	ROSTA TENSIONER	1	24-0081
23	PRE-FORMED TUBE	1	28-0014
24	MOTOR M350 1-3/4" GEAR (Excluding wheel loader-powered booms.)	1	30-0509
25	SPACER	1	34-0033
26	MOTOR KEY	1	37-0020
27	BELT GUARD	1	41-0123
28	12 MM LOCK WASHER	1	11-0031
29	12 MM X 40 MM - 1.75 HEX CAPSCREW	1	11-0672

BOOM FLAIL HEAD - 44"/50" HYDRAULIC TRAPDOOR (OPTIONAL)

REF#	PARTS DESCRIPTION	REQ	PART #
1	3/8 LOCK WASHER	4	11-0005
2	3/8 FLAT WASHER	4	11-0009
3	3/8 X 1 NC HEX CAPSCREW	4	11-0532
4	1/4 X 2 ROLL PIN	7	11-2005
5	2 X 6 CYLINDER	1	14-0020
6	1/2ADJ-OR X 1/2FPX-90DEG, FITTING	2	21-1119
7	HOSE 1/4 X 82 (1/2MP X 5/16MJIC)	1	21-2369
8	HOSE 1/4 X 72 (1/2MP X 5/16MJIC)	1	21-2370
9	FLAIL BONNET - HYD TRAP		
	44" FLAIL	1	25-0109
	50" FLAIL	1	25-0076
10	CLEVIS PIN, 3-1/2"	1	27-0004
11	CLEVIS PIN, 4"	1	27-0005
12	LINKAGE PIN	1	27-0017

REF#	PARTS DESCRIPTION	REQ	PART #
13	LINKAGE PIN	1	27-0041
14	DECK LINKAGE	2	31-0118
15	DOOR LINKAGE	1	31-0119
16	DOOR SPACER	1	31-0120
17	10GA BUSHING	4	34-0060
18	HYDRAULIC SHIELD	1	41-0764
	44" FLAIL	1	41-0764
	50" FLAIL	1	41-0597
19	HINGE		
	44" FLAIL	1	41-0765
	50" FLAIL	1	41-0596
20	HINGE ROD		
	44" FLAIL	1	41-0766
	50" FLAIL	1	41-0598

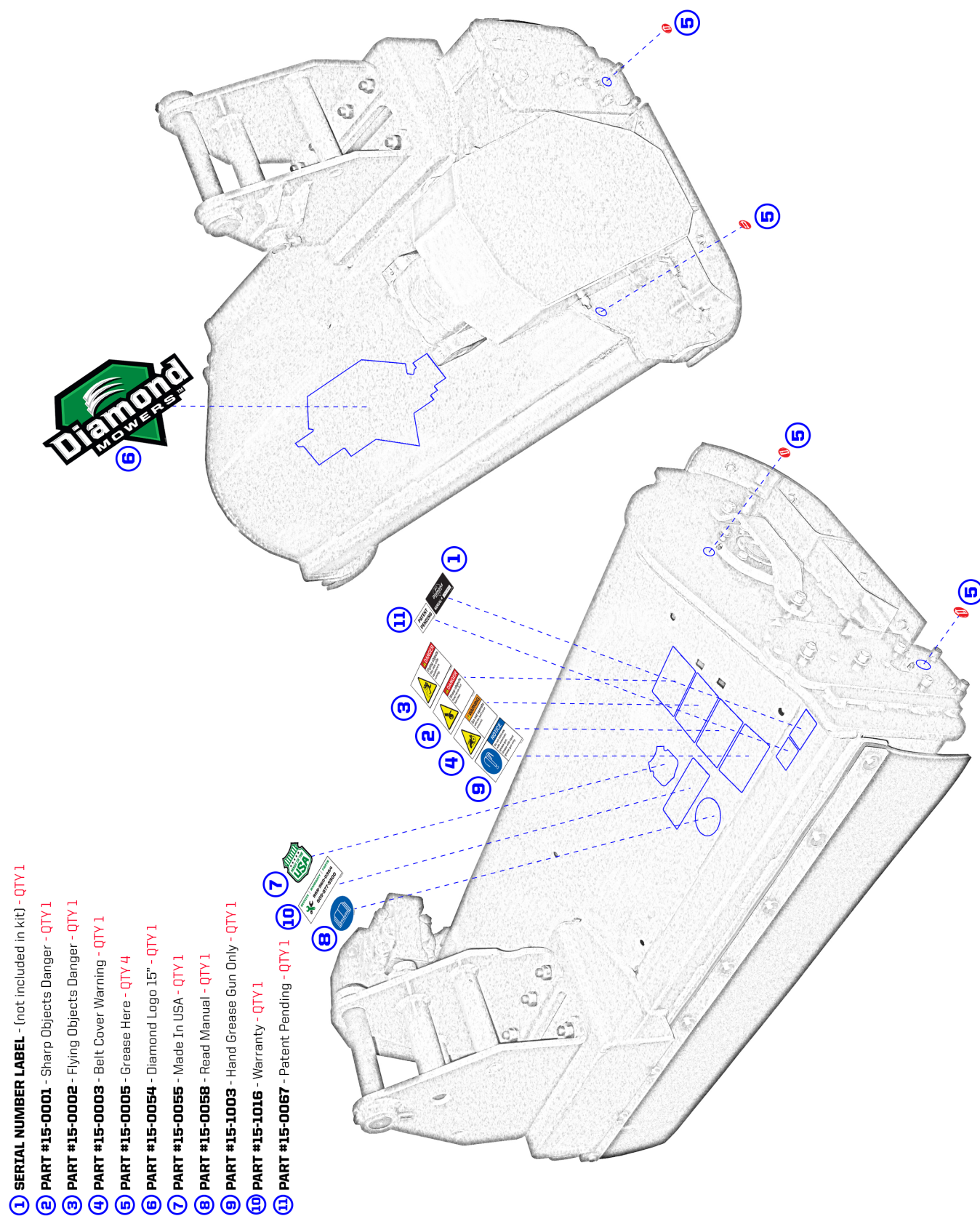
BOOM FLAIL HEAD - 50" PIVOT ASSEMBLY (OPTIONAL)

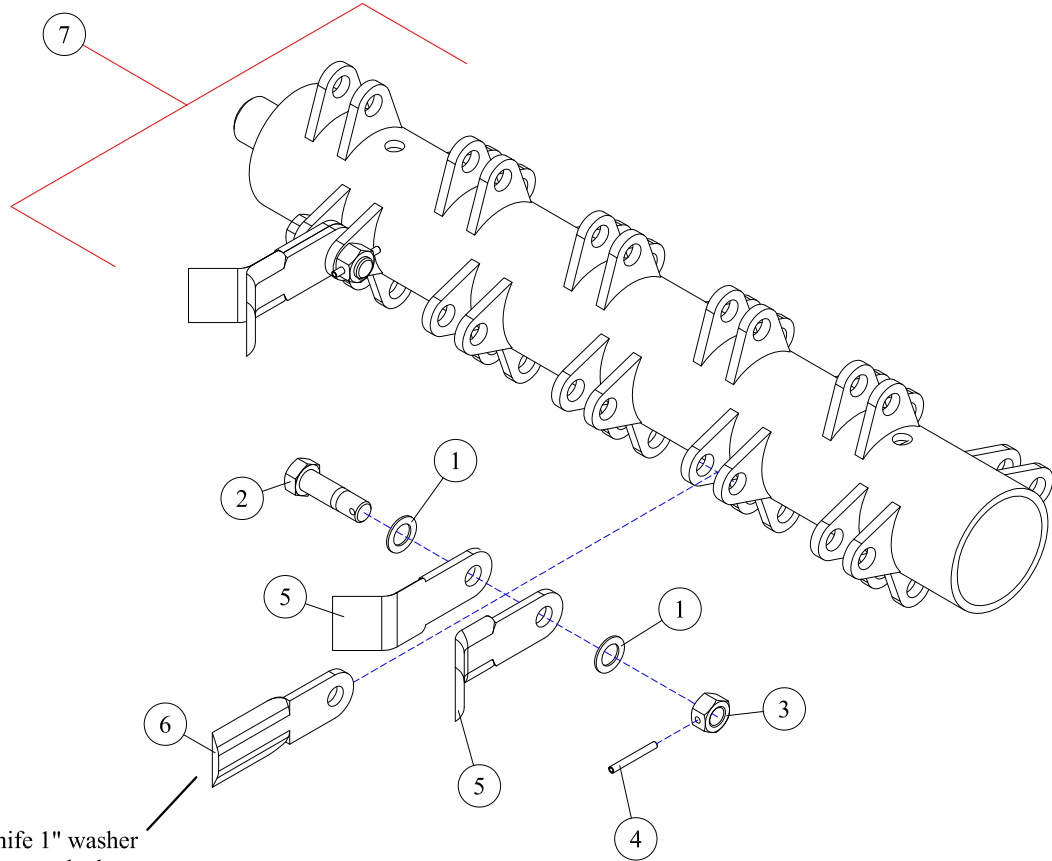
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/2" PRELUBED BEARING	2	10-0033
2	1/2 SAE FLAT WASHER GR 8	8	11-0042
3	5/8 LOCK WASHER GR 8	8	11-0043
4	5/8 X 2 NF HEX CAP GR 8	8	11-0508
5	7/16 X 3-1/4 NC HEX CAP GR 5	1	11-0510
6	1/2 X 2 NC HEX CAP GR5	4	11-0522
7	7/16 NC NYLOCK NUT	1	11-1003
8	1/2 NC NYLOCK NUT	4	11-1018
9	5/8 H.S. NF STOVER NUT	8	11-1143
10	1/4 X 2 ROLLPIN	2	11-2005

REF#	PARTS DESCRIPTION	REQ	PART #
11	HOSE 1 X 84 (1MP X 1FJIC)	1	21-2622
12	HOSE 1 X 77 (#20FLG-45DEG X 1FJX)	1	21-3511
13	PIN, 1 X 3-1/2"	1	27-0004
14	LOCK PIN	1	27-0007
15	HINGE PIN	1	27-0020
16	LYNCH PIN	1	27-1005
17	MAST PIVOT LINKAGE	1	31-0495
18	DBF PIVOT MOUNT, FLAIL SIDE	1	41-1421
19	DBF PIVOT MOUNT, BOOM SIDE	1	41-1422

DECAL IDENTIFICATION - BOOM FLAIL

090718



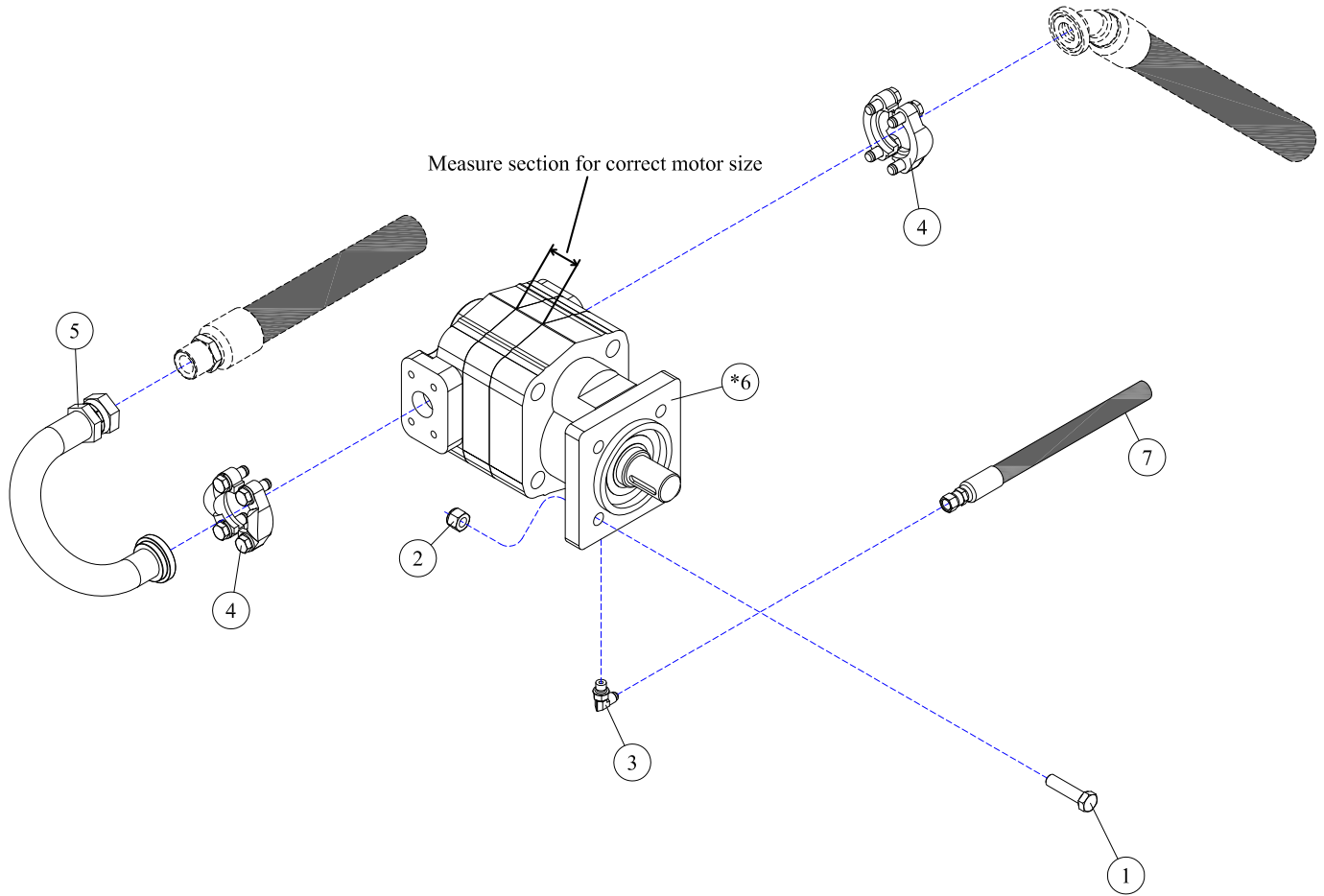
BOOM FLAIL HEAD - 44" & 50" BLADE CONFIGURATIONS

Optional flush cut knife 1" washer (11-0056) must be removed when using.

REF#	PARTS DESCRIPTION	REQ	PART #
<u>44" HEAVY DUTY BOOM FLAIL</u>			
1	1 SAE H.S. FLAT WASHER	40	11-0056
2	1 X 3-1/2 SPECIAL CUTTER SHAFT BOLT	20	11-0757
3	1 NC SLOTTED JAM NUT	20	11-1054
4	1/4 X 2 ROLL PIN	20	11-2005
5	FLAIL KNIFE, HEAVY DUTY BRUSH	40	22-1017
6	FLUSH CUT KNIFE	20	22-1021
7	CUTTER SHAFT COMPLETE	1	46-1030
<u>50" HEAVY DUTY BOOM FLAIL</u>			
1	1 SAE H.S. FLAT WASHER	48	11-0056
2	1 X 3-1/2 SPECIAL CTR SHF BOLT	24	11-0757
3	1 NC SLOTTED JAM NUT	24	11-1054
4	1/4 X 2 ROLL PIN	24	11-2005
5	FLAIL KNIFE, HEAVY DUTY BRUSH	48	22-1017
6	FLUSH CUT KNIFE	24	22-1021
7	CUTTER SHAFT COMPLETE	1	46-1017

DRIVE ASSEMBLIES



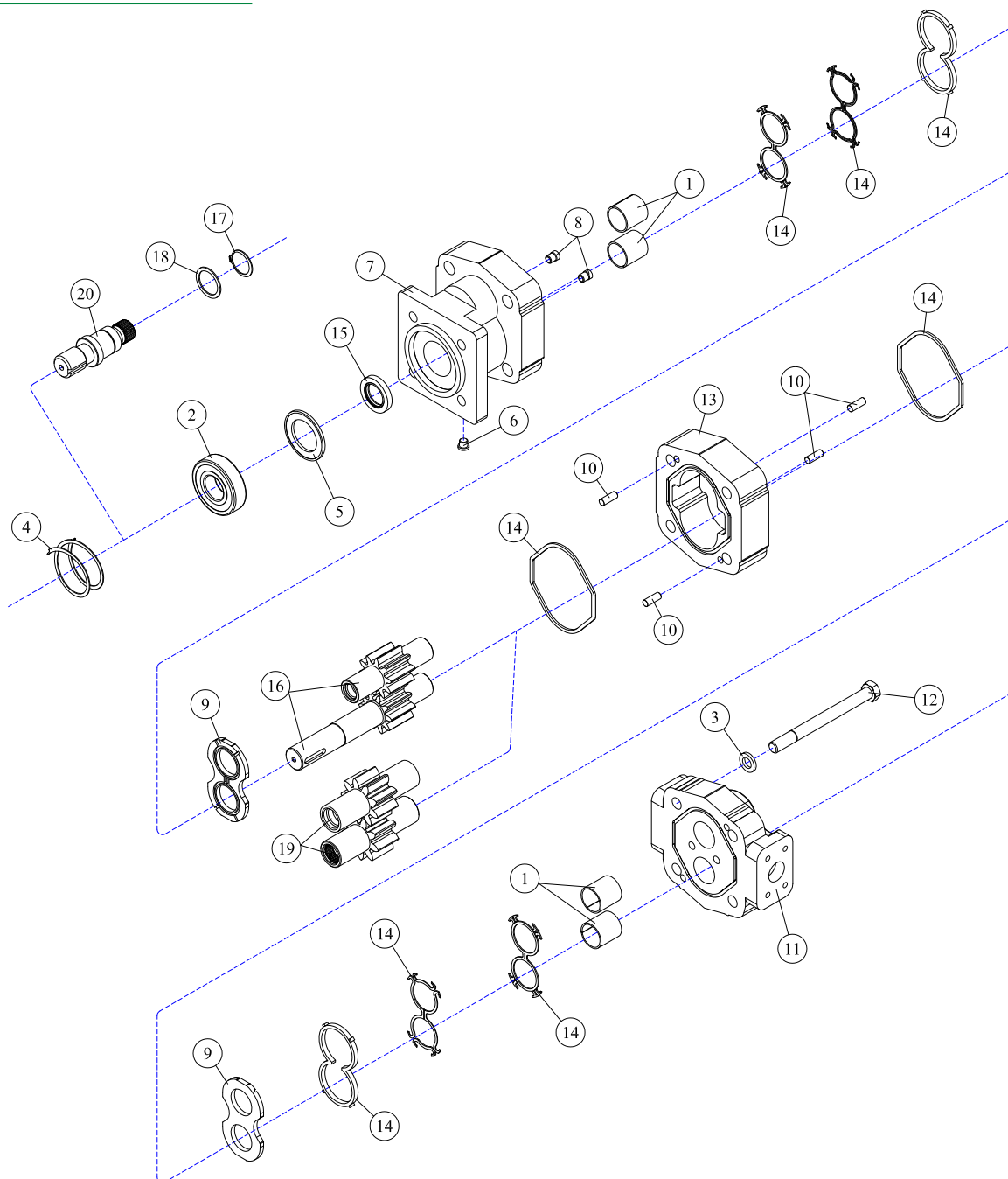
DRIVE ASSEMBLY - 50" FLAIL MOWER (WHEEL LOADER POWERED BOOM ONLY)

* Note: These are the flow rates AFTER the oil has passed through the 4:1 divider.

REF#	PARTS DESCRIPTION	REQ	PART #
1	1/2 X 2 NC HEX CAPSCREW	4	11-0522
2	1/2 NC NYLOCK NUT	4	11-1018
3	1/4MJIC X 1/4MORB 90DEG, ADAPTER	1	21-1264
4	FLANGE KIT	2	21-2105
5	PRE-FORMED TUBE	1	28-0014
* 6	MOTOR		
	M350, 1-1/4" GEAR SET, 1-3/4" SECT, 30-39 GAL/MIN	1	30-0513
	M350, 1-3/4" GEAR SET, 2-1/4" SECT, 40-45 GAL/MIN	1	30-0509
7	HOSE 3/8 X 75 (1/4FJIC X 1/2MJIC)	1	21-4324

DECK ASSEMBLIES



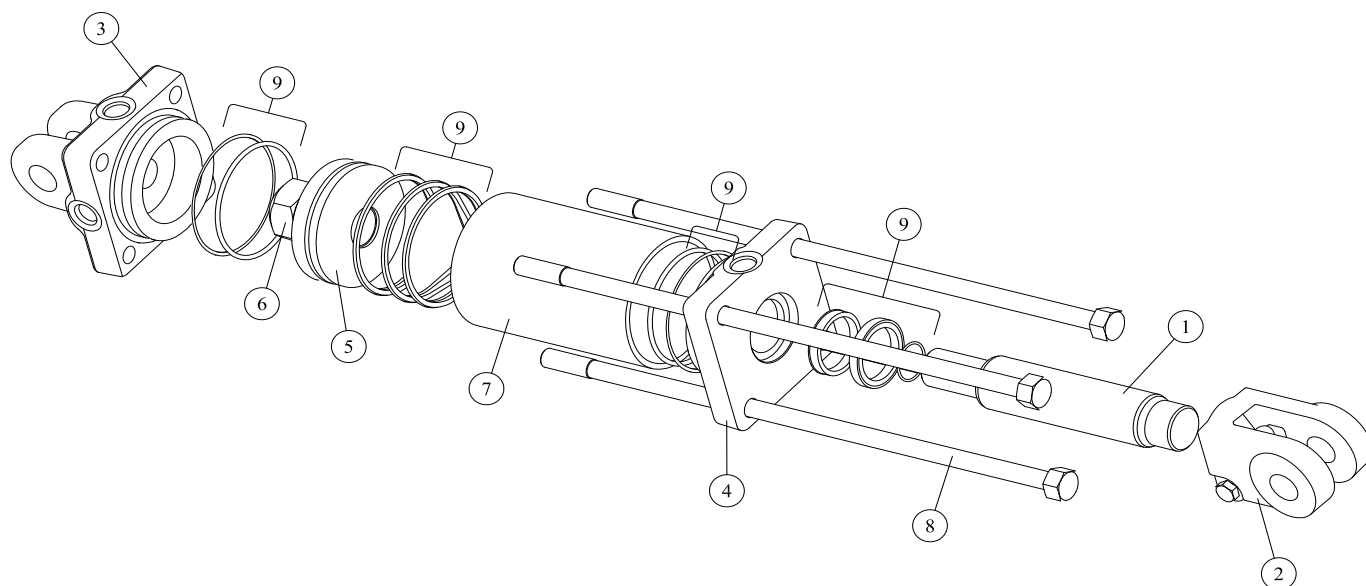
30-0509 - MOTOR ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	BUSHING	4	30-1002
2	BALL BEARING	1	30-1044
3	WASHER	4	30-1071
4	SPIROLOCK	1	30-1094
5	RETAINING RING	1	30-1095
6	PLUG	1	30-1096
7	SHAFT END COVER	1	30-1097
8	CHECK ASSEMBLY	2	30-1098
9	THRUST PLATE	2	30-1100
10	DOWEL PIN	4	30-1102
11	PORT END COVER W/ BUSHINGS	1	30-1137
12	STUD	4	30-1134
13	GEAR HOUSING 1-3/4"	1	30-1208
14	SEAL KIT		
	SEAL KIT (integral shaft only) comes w/ 30-1162	1	30-1207

REF#	PARTS DESCRIPTION	REQ	PART #
	SEAL KIT (continental shaft only)	1	30-1211
15	SHAFT SEAL		
	CONTINENTAL SHAFT ONLY:		
	300 PSI (included in M350 seal kit)	1	30-1209
	INTEGRAL SHAFT ONLY:		
	500 PSI	1	30-1036
*	SHAFT TOOL (not shown) (required for install)	1	30-1162
	GEAR SET OPTION A:		
16	INTEGRAL SHAFT AND GEAR 1-3/4"	1	30-1024
	GEAR SET OPTION B:		
17	RETAINING RING	1	30-1258
18	RETAINING WASHER	1	30-1259
19	2-1/4" GEAR SET	1	30-1025
20	CONTINENTAL SHAFT, SPLINED	1	30-1335

LIFT ASSEMBLIES

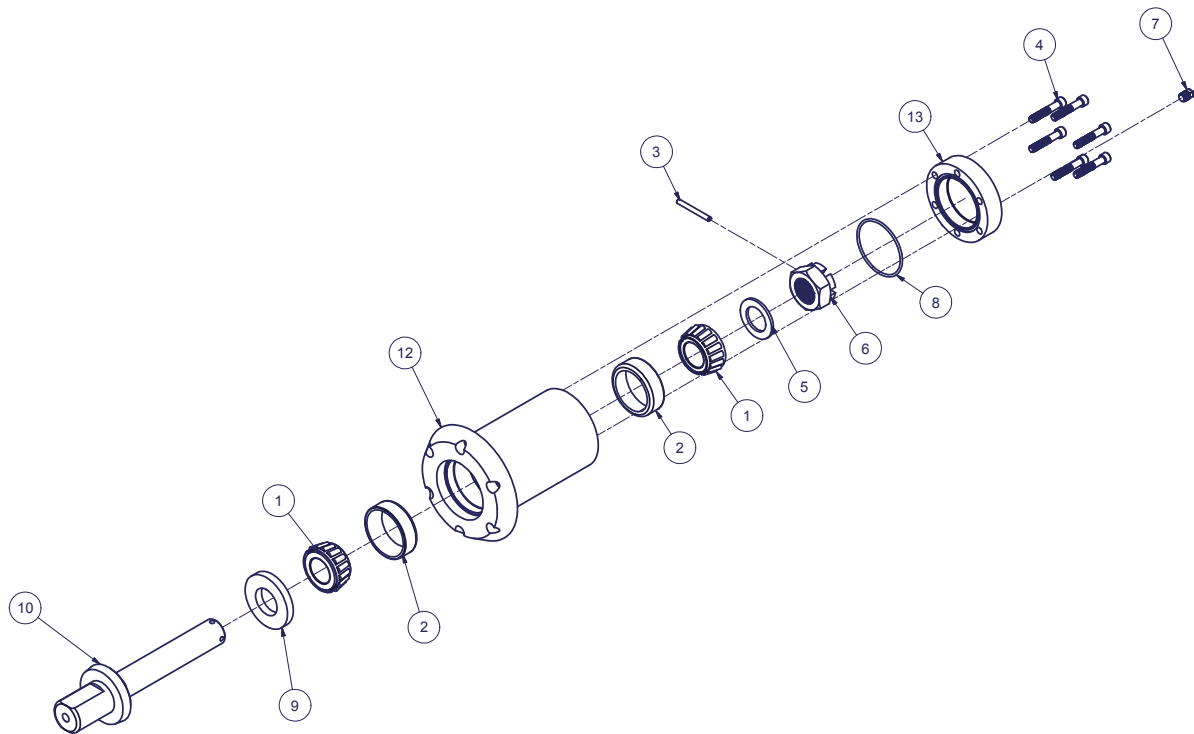


14-0020 - 2X6 TIE-ROD CYLINDER

REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1173
2	CLEVIS ASSEMBLY	1	14-1064
3	BUTT	1	14-1062
4	GLAND	1	14-1063
5	PISTON	1	14-1067
6	LOCKNUT	1	14-1068
7	TUBE	1	14-1174
8	TIE-ROD ASSEMBLY	4	14-1175
9	SEAL KIT	1	33-0025

MISCELLANEOUS ASSEMBLIES



BEARING - GROUND ROLLER, 10-1051

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft.-lbs)	TORQUE (Nm)
1	TAPER BEARING	2	10-1049		
2	TAPER BEARING RACE	2	10-1050		
3	ROLL PIN	1	11-2006		
4	5/16 X 1-3/4 NC SHCS	6	11-2065	28.7	38.9
5	THRUST WASHER 2.00 OD X 1.26 ID	1	11-2067		
6	CASTLE NUT	1	11-2074		
7	1/8 NPT PLUG	1	21-1136		
8	O RING 2-7/8 OD	1	24-0273		
9	SEAL TCM 132713TC	1	33-0031		
10	ASSY GROUND ROLLER SHAFT	1	41-1533		
11	SERVICE KIT, GROUND ROLLER (NOT SHOWN)	1	44-0780		
12	GROUND ROLLER INSERT	1	90-7045		
13	GROUND ROLLER END CAP	1	90-7048		

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