



PARTS BOOK

FLAIL HEADS

• 90" CUT • SKID-STEER MOUNT • 6.14.18 •

DIAMOND MOWERS, LLC
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Sioux Falls, SD 57104

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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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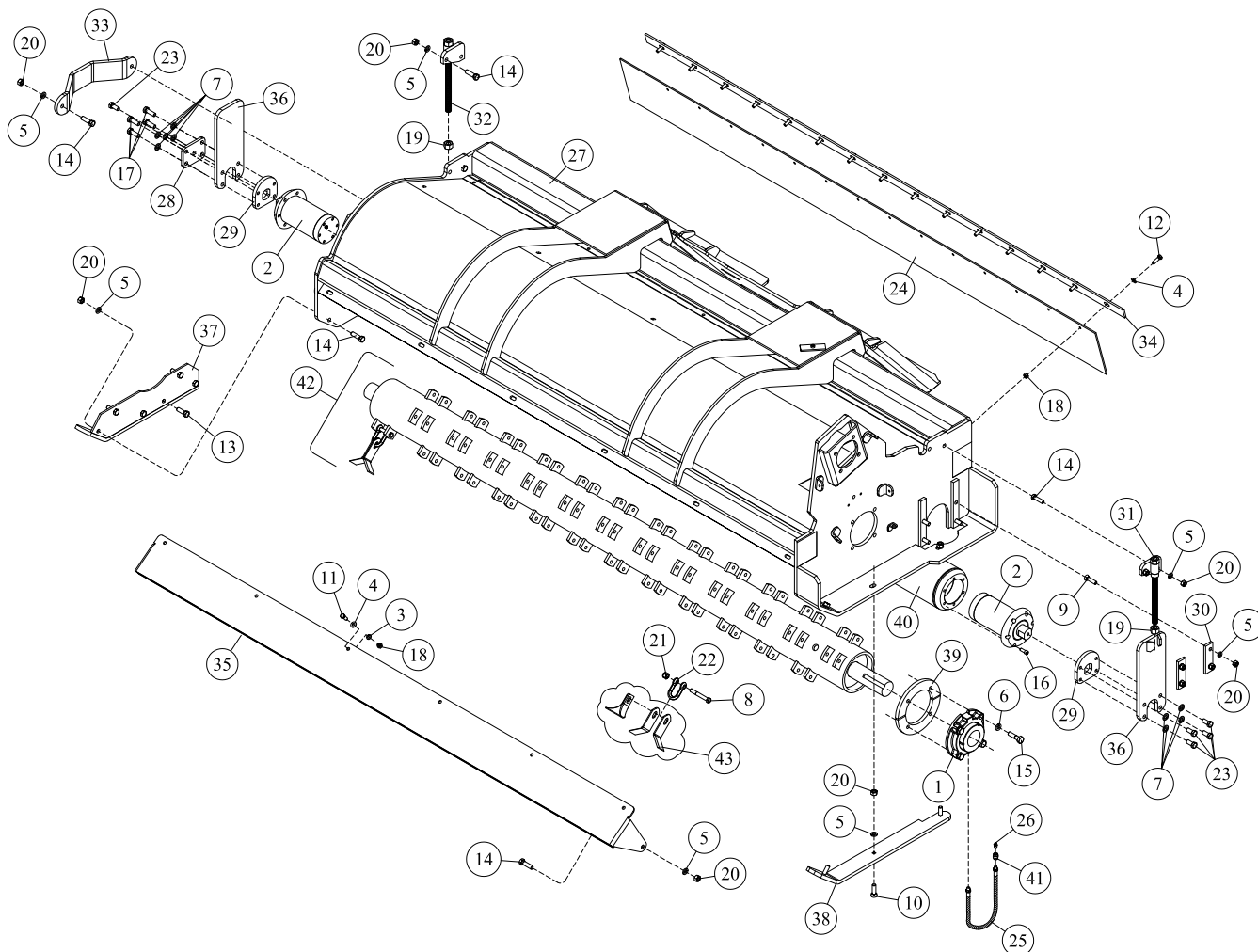


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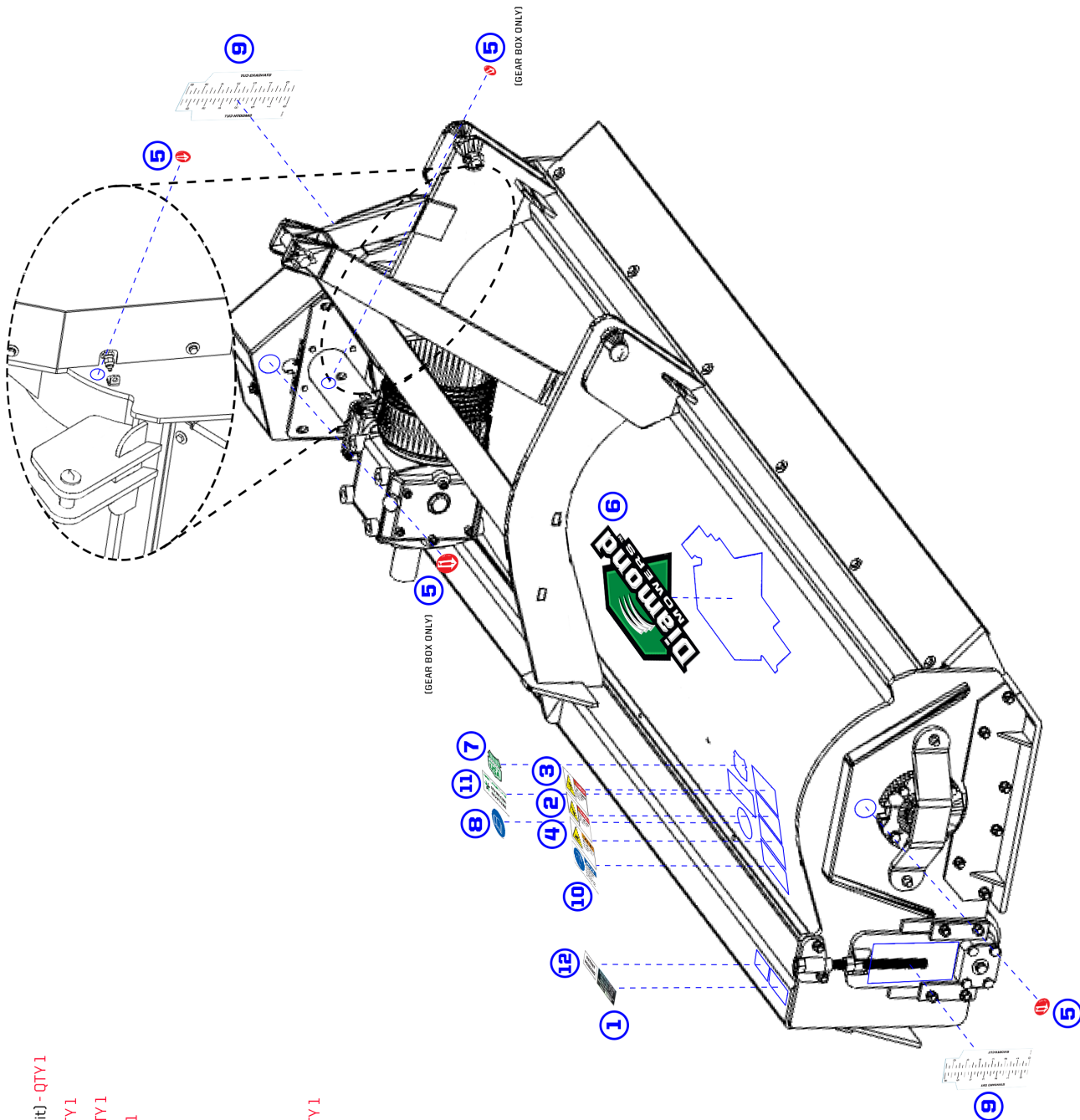


FLAIL HEADS

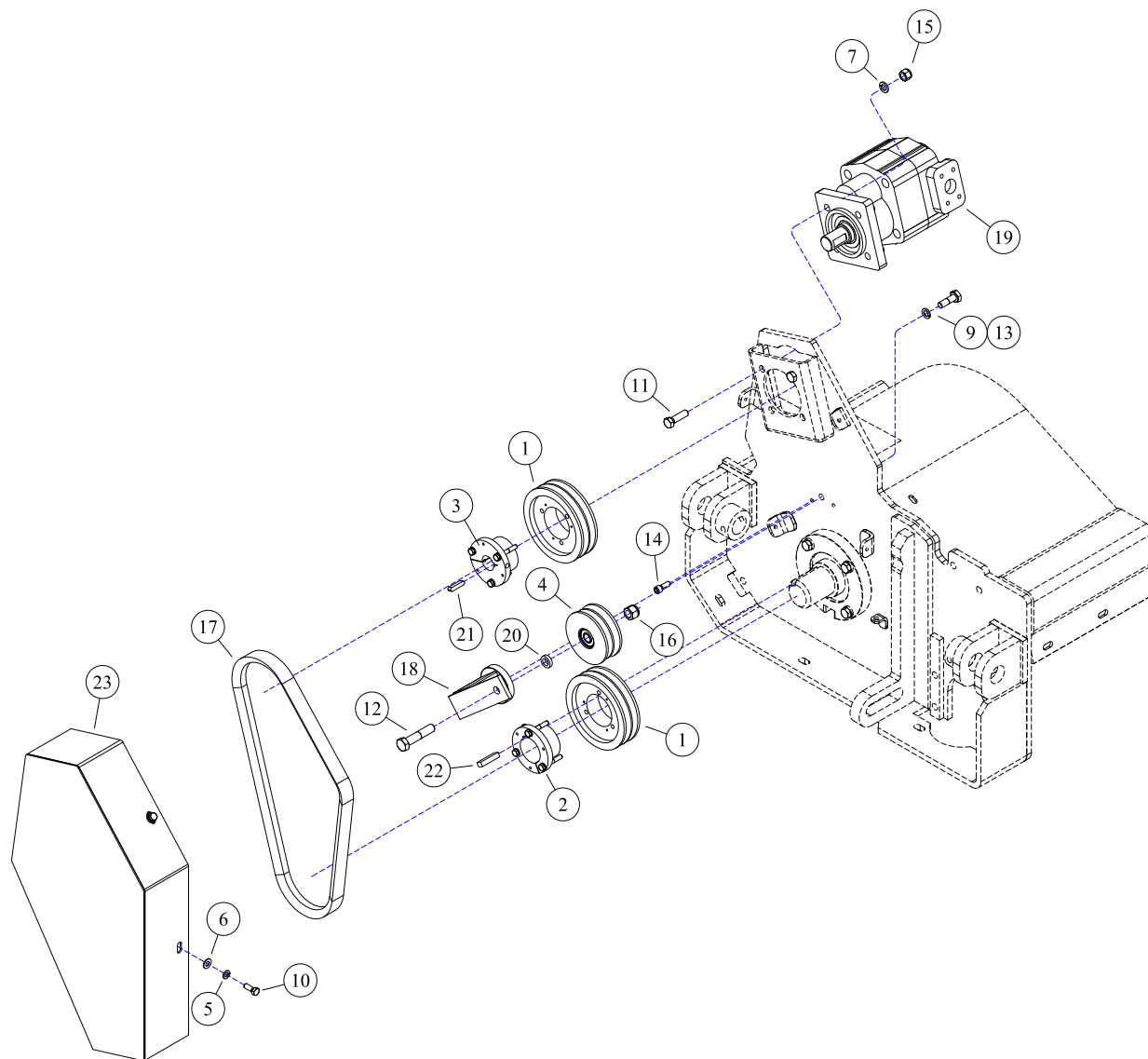
FLAIL HEAD - 90" CUTTER ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	CUTTERSHAFT BEARING	2	10-0006
2	OIL BATH REPLACEMENT BEARING	2	10-1067
3	3/8 LOCK WASHER	6	11-0005
4	3/8 FLAT WASHER	21	11-0009
5	1/2 LOCK WASHER	24	11-0011
6	1/2 H.S. LOCK WASHER	8	11-0036
7	1/2 SAE FLAT WASHER GR 8	9	11-0042
8	KNIFE MOUNTING BOLT	48	11-0506
9	1/2 X 2 NC PLOW BOLT	8	11-0515
10	1/2 X 1-3/4 NC PLOW BOLT	3	11-0530
11	3/8 X 1 NC HEX CAPSCREW	6	11-0532
12	3/8 X 1-1/4 NC HEX CAPSCREW	15	11-0533
13	1/2 X 1-1/2 NC HEX CAPSCREW	5	11-0534
14	1/2 X 1-3/4 NC HEX CAPSCREW	8	11-0535
15	1/2 X 2 H.S. NF HEX CAPSCREW	8	11-0633
16	3/8 X 1 H.S. NC SKT HEAD	12	11-0752
17	1/2-13 X 1-1/2 GR 8 HEX CAPSCREW	4	11-0972
18	3/8 NC HEX NUT	21	11-1001
19	3/4 - 6 ACME HEX NUT	2	11-1012
20	1/2 NC HEX NUT	24	11-1016
21	7/16 NYLOCK JAM NUT	48	11-1146
22	CLEVIS	48	11-1501
23	1/2-13 X 1-1/8 GR 8 HEX CAPSCREW	5	11-2154
24	90" FLAP	1	18-0014
25	GREASE ZERK HOSE	1	21-0002

REF#	PARTS DESCRIPTION	REQ	PART #
26	1/8" GREASE ZERK	2	23-0003
27	90" SKID LOADER FLAIL BONNET	1	25-0126
28	GROUND ROLLER MOUNT PLATE	1	31-0755
29	GROUND ROLLER BOLT PLATE INTERIM	2	31-0761
30	LOCK PLATE	4	41-0003
31	ADJUSTMENT ROD INSIDE	1	41-0005
32	ADJUSTMENT ROD OUTSIDE	1	41-0006
33	CUTTERSHAFT GUARD	1	41-0097
34	90" FLAP BAR	1	41-0185
35	90" TRASH GUARD	1	41-0190
36	ADJUSTMENT BRKT W-O TAPPED HOLES	2	41-1774
37	OUTER SKID SHOE	1	42-0010
38	INNER SKID SHOE	1	42-0013
39	BEARING GUARD	4	46-0018
40	90" GROUND ROLLER	1	46-0049
41	1/8" BRASS COUPLER	1	9996
42	****CUTTER SHAFTS COMPLETE****		
	90" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1013
	90" CUTTER SHAFT, 3/16" HD KNIVES	1	46-1011
43	****FLAIL KNIVES****		
	SMOOTH CUT FLAIL KNIFE	48	22-1006
	3/6" HD FLAIL KNIFE	96	22-1016
44	BLADE KITS		
	Includes 11-0506, 11-1146, & 22-1006 (smooth)	1	44-0260
	Includes 11-0506, 11-1146, & 22-1016 (HD)	1	44-0243

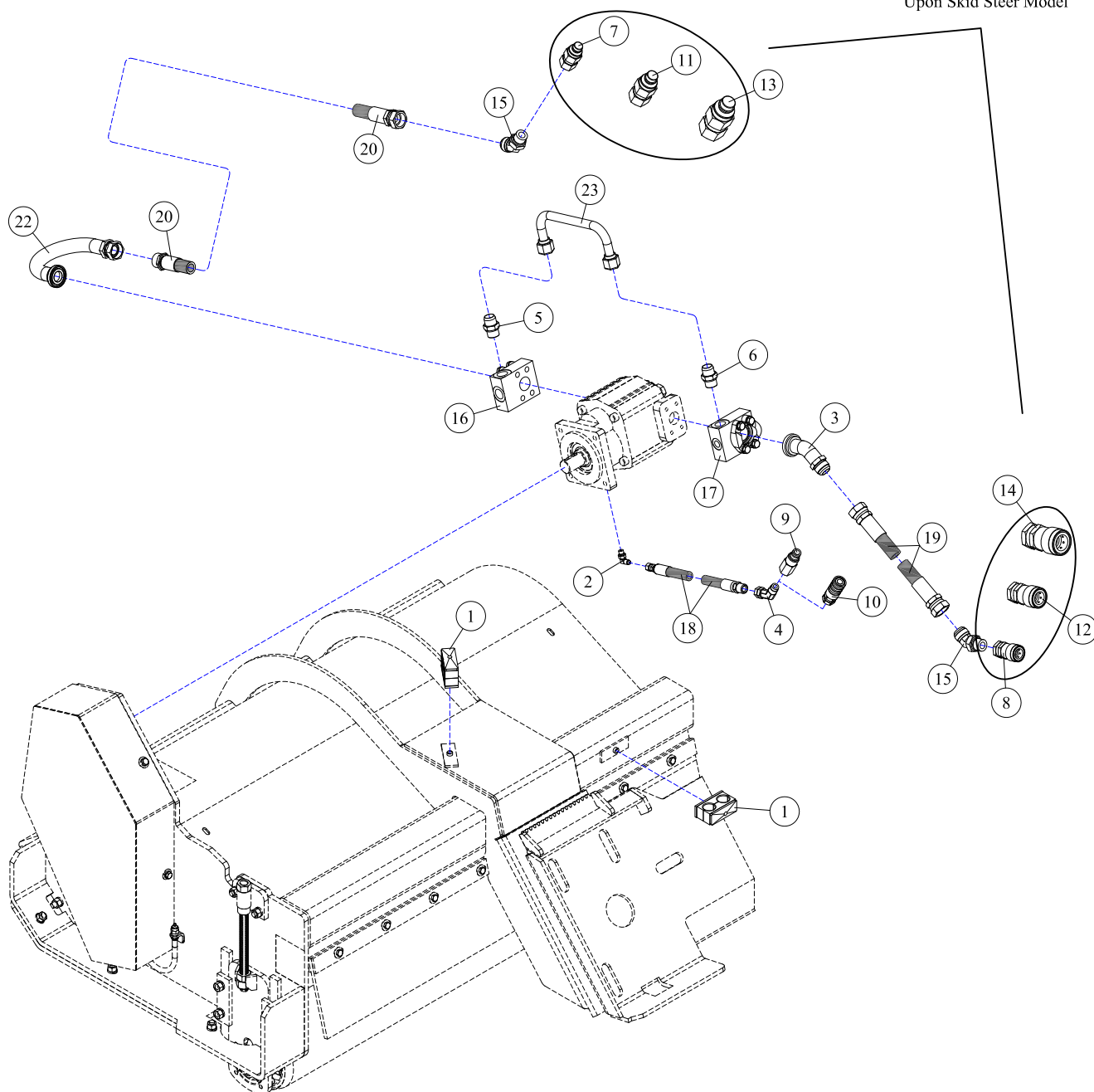
DECAL IDENTIFICATION - REAR/FRONT FLAIL

- ① SERIAL NUMBER LABEL - (not included in kit) - QTY 1
- ② PART #15-0001 - Sharp Objects Danger - QTY 1
- ③ PART #15-0002 - Flying Objects Danger - QTY 1
- ④ PART #15-0003 - Belt Cover Warning - QTY 1
- ⑤ PART #15-0005 - Grease Here - QTY 4
- ⑥ PART #15-0054 - Diamond Logo 15" - QTY 1
- ⑦ PART #15-0055 - Made In USA - QTY 1
- ⑧ PART #15-0058 - Read Manual - QTY 1
- ⑨ PART #15-1001 - Ruler - QTY 2
- ⑩ PART #15-1003 - Hand Grease Gun Only - QTY 1
- ⑪ PART #15-1016 - Warranty - QTY 1
- ⑫ PART #15-0067 - Patent Pending - QTY 1

FLAIL HEAD - 90" DRIVE ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	SHEAVE 6.3	2	10-1007
2	2-3/16" TAPERLOCK BUSHING	1	10-1012
3	1-1/4" TAPERLOCK BUSHING	1	10-1014
4	SHEAVE IDLER ASSEMBLY 4.4	1	10-1016
5	3/8 LOCK WASHER GR 5	4	11-0005
6	3/8 FLAT WASHER GR 5	4	11-0009
7	1/2 LOCK WASHER GR 5	4	11-0011
8	5/8 SAE FLAT WASHER GR 8	1	11-0012
9	12MM LOCK WASHER GR 10.9	1	11-0031
10	3/8 X 1 NC HEX CAPSCREW	4	11-0532
11	1/2 X 1-3/4 NC HEX CAPSCREW	4	11-0535
12	5/8 X 3 NC HEX CAPSCREW	1	11-0558

REF#	PARTS DESCRIPTION	REQ	PART #
13	12MM X 40MM X 1.75 HEX CAPSCREW	1	11-0672
14	3/8 X 1 H.S. NC SKT HEAD	1	11-0752
15	1/2 NC NYLOCK NUT	4	11-1018
16	5/8 NC NYLOCK NUT	1	11-1025
17	DOUBLE 530 V-BELT	1	12-0007
18	ROSTA TENSIONER	1	24-0081
19	MOTOR	1	30-0509
20	IDLER SPACER	1	34-0033
21	MOTOR KEY	1	37-0020
22	CUTTERSHAFT KEY	1	37-0021
23	BELT GUARD	1	41-0430

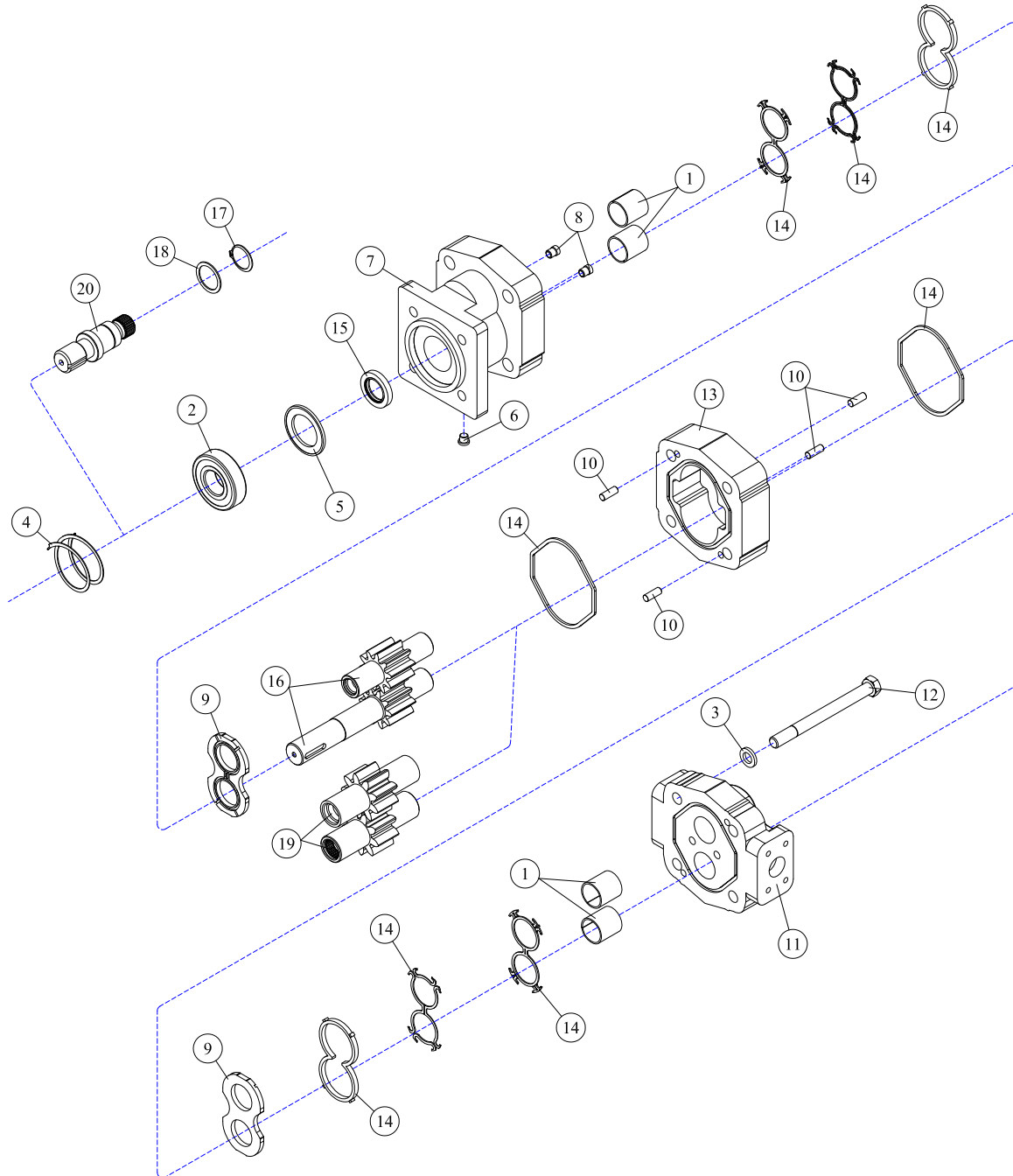
FLAIL HEAD - 90" HOSE ASSEMBLYMale or Female Option Vary
Upon Skid Steer Model

REF#	PARTS DESCRIPTION	REQ	PART #
1	HOSE CLAMP	2	11-2008
2	1/4MJIC X 1/4MORB-90DEG ADAPTER	1	21-1264
3	#20FLG X 1MJIC-45DEG ADAPTER	1	21-1268
4	1/2MP X 1/2FP ADAPTER 45 DEG	1	21-1290
5	3/4 MORB X 3/4 MJIC ADAPT W/ CHCK VALVE	1	21-1474
6	3/4 MORB X 3/4 MJIC ADAPTER	1	21-1475
7	1/2 MALE QUICK COUPLER, FLAT FACE	1	21-1559
8	1/2 FEMALE QUICK COUPLER, FLAT FACE	1	21-1560
9	3/8 MALE QUICK COUPLER, FLAT FACE	1	21-1561
10	3/8 FEMALE QUICK COUPLER, FLAT FACE	1	21-1562
11	5/8 MALE QUICK COUPLER, FLAT FACE	1	21-1574
12	5/8 FEMALE QUICK COUPLER, FLAT FACE	1	21-1575

REF#	PARTS DESCRIPTION	REQ	PART #
13	3/4 MALE QUICK COUPLER, FLAT FACE	1	21-1576
14	3/4 FEMALE QUICK COUPLER, FLAT FACE	1	21-1577
15	ADAPTER, 1MJIC-45DEG X 3/4MORB	2	21-1654
16	CROSS OVER MANIFOLD KIT	1	21-2180
17	TEE MANIFOLD KIT	1	21-2181
18	HOSE 3/8 X 122 (1/4FJIC X 1/2MP)	1	21-4295
19	HOSE 1 X 112 (1FJIC X 1FJIC)	1	21-5300
20	HOSE 1 X 118 (1FJIC X 1MP)	1	21-5301
21	HOSE SLEEVING - NOT SHOWN	Sold/ft	24-0142
22	PREFORMED TUBE	1	28-0014
23	RUN-AROUND TUBE	1	28-0046

The image shows a close-up, slightly angled view of a wooden deck. The wood grain is prominent, with various shades of brown and tan. A horizontal grey band runs across the middle of the image, serving as a background for the title. The title is centered within this band and is flanked by two short green horizontal lines.

DECK ASSEMBLIES

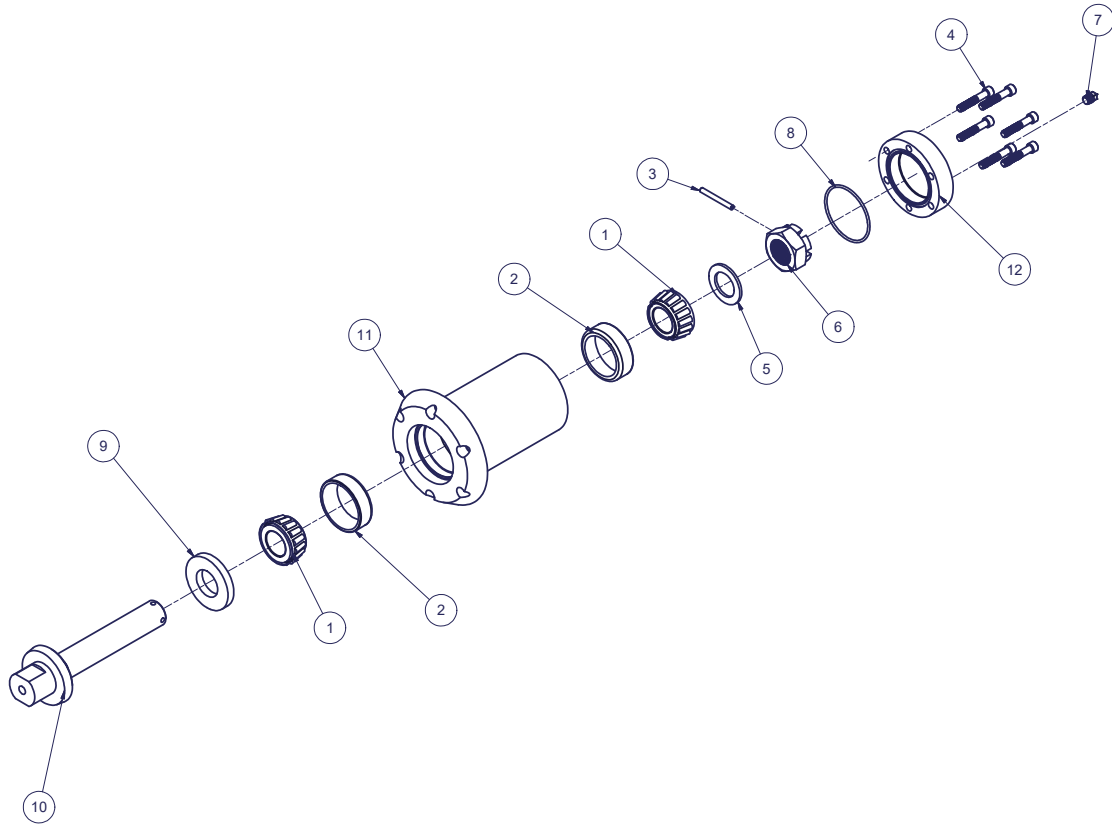
30-0509 - MOTOR ASSEMBLY

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



MISCELLANEOUS ASSEMBLIES

BEARING - GROUND ROLLER, 10-1067

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	41-1776		
11	GROUND ROLLER INSERT	1	90-7045		
12	GROUND ROLLER END CAP	1	90-7048		

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GUARANTEE**
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**72-HOUR PARTS
SHIPPING GUARANTEE**