



PARTS BOOK

FLAIL HEADS

• 90" REAR • 3PT HITCH 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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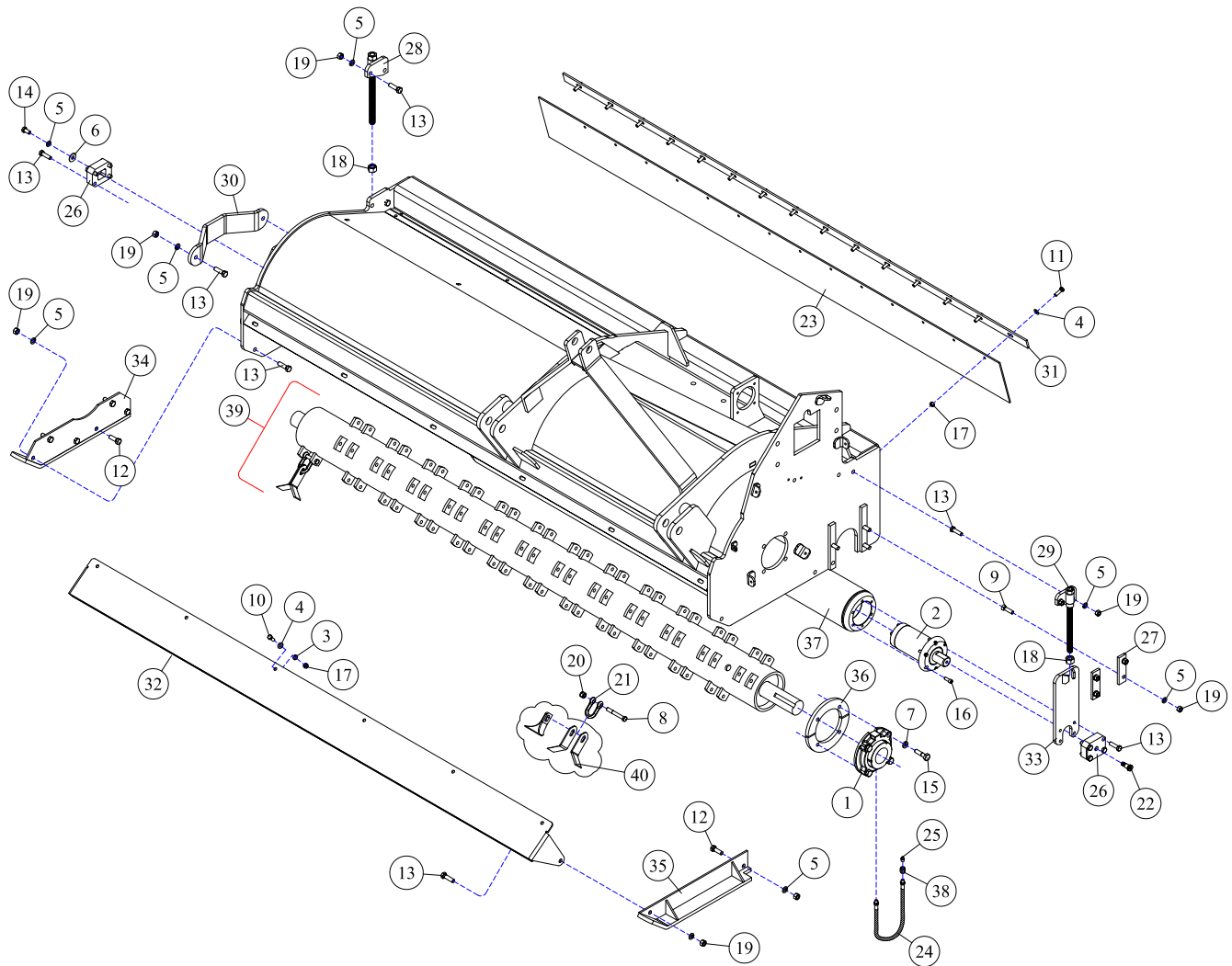
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FLAIL HEADS



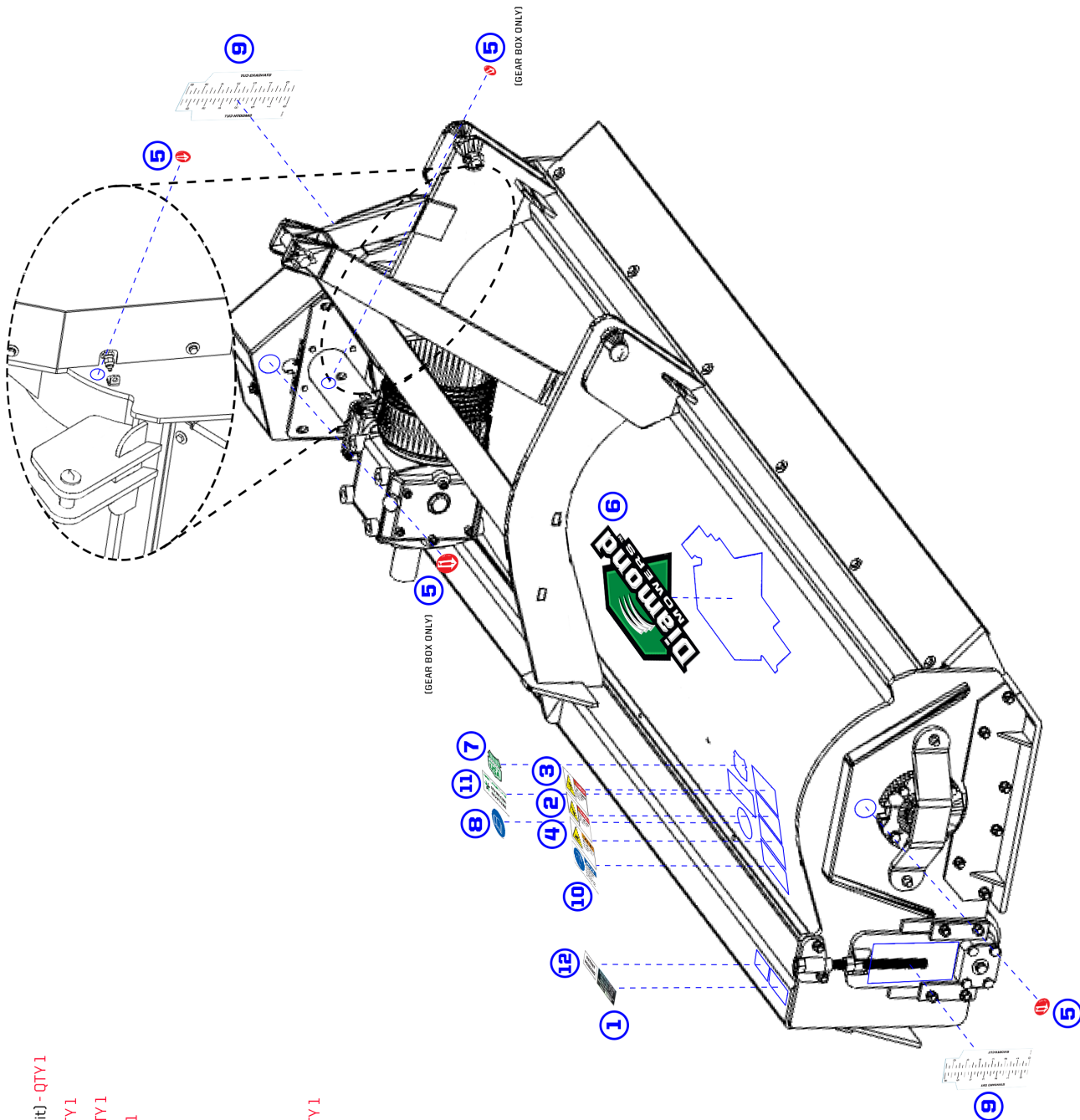
REAR HD FLAIL HEAD - 90" CUTTER ASSEMBLY



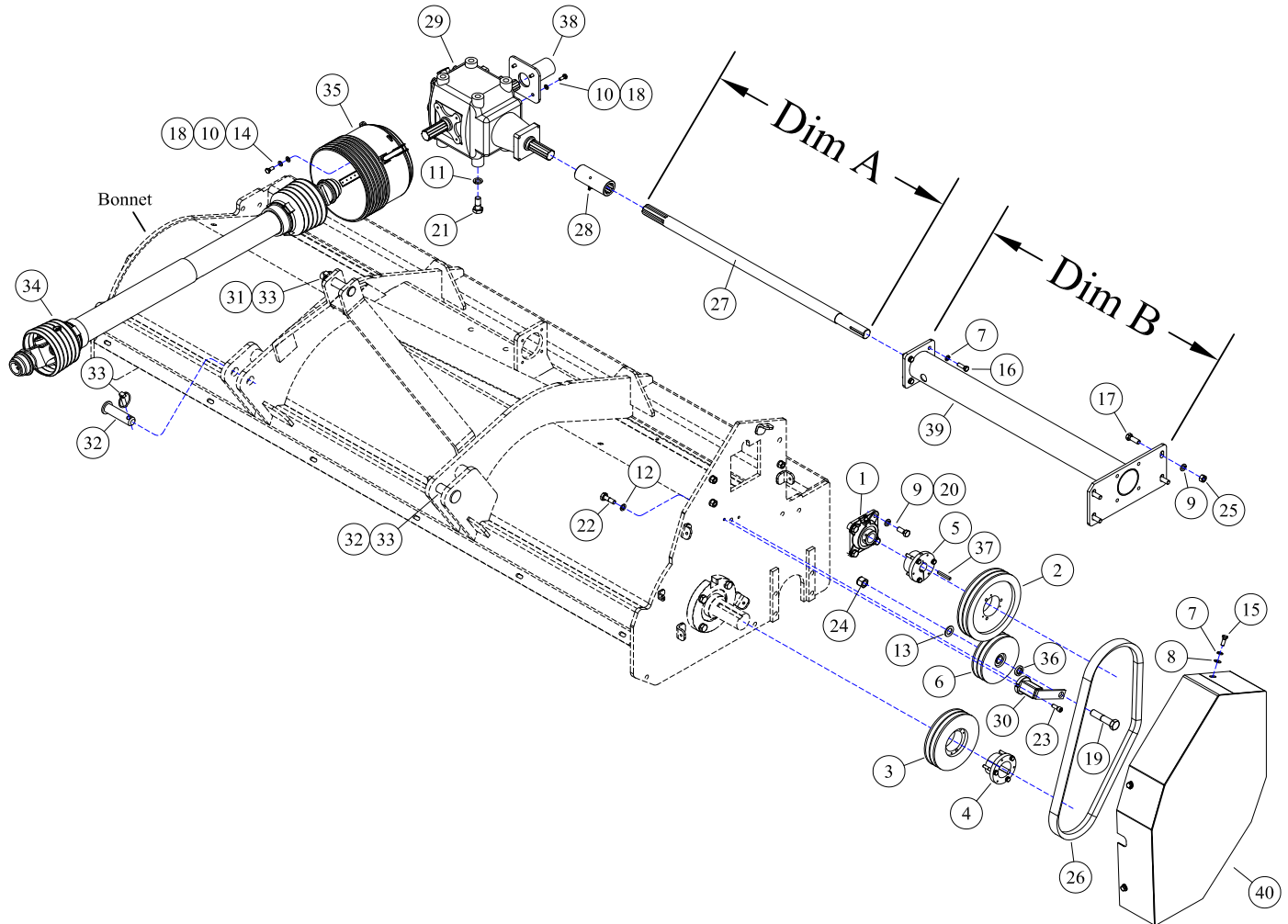
REF#	PARTS DESCRIPTION	REQ	PART #
1	CUTTERSHAFT BEARING	2	10-0006
2	GROUND ROLLER BEARING ASSY	2	10-1051
3	3/8 LOCK WASHER	6	11-0005
4	3/8 FLAT WASHER	21	11-0009
5	1/2 LOCK WASHER	23	11-0011
6	1/2 FLAT WASHER GR 5	1	11-0018
7	1/2 H.S. LOCK WASHER	8	11-0036
8	KNIFE MOUNTING BOLT	48	11-0506
9	1/2 X 2 NC PLOW BOLT	8	11-0515
10	3/8 X 1 NC CAPSCREW	6	11-0532
11	3/8 X 1-1/4 NC CAPSCREW	15	11-0533
12	1/2 X 1-1/2 NC CAPSCREW	6	11-0534
13	1/2 X 1-3/4 NC HEX CAPSCREW	16	11-0535
14	1/2 X 1 NC HEX CAP	1	11-0569
15	1/2 X 2 H.S. NF CAPSCREW	8	11-0633
16	3/8 X 1 H.S. NC SKT HEAD	12	11-0752
17	3/8 NC HEX NUT	21	11-1001
18	3/4 - 6 ACME HEX NUT	2	11-1012
19	1/2 NC HEX NUT	22	11-1016
20	7/16 NYLOCK JAM NUT	48	11-1146
21	CLEVIS	48	11-1501
22	SHOULDER BOLT	1	11-2086
23	90" FLAP	1	18-0014
24	GREASE ZERK HOSE	1	21-0002
25	1/8" GREASE ZERK	2	23-0003

REF#	PARTS DESCRIPTION	REQ	PART #
26	GROUND ROLLER BLOCK	2	31-0563
27	LOCK PLATE	4	41-0003
28	ADJUSTMENT ROD RIGHT	1	41-0005
29	ADJUSTMENT ROD LEFT	1	41-0006
30	CUTTERSHAFT GUARD	1	41-0097
31	90" FLAP BAR	1	41-0185
32	90" TRASH GUARD	1	41-0190
33	GROUND ROLLER BRACKET	2	41-1501
34	OUTER SKID SHOE	1	42-0010
35	INNER SKID SHOE	1	42-0015
36	BEARING GUARD	4	46-0018
37	90" GROUND ROLLER	1	46-0049
38	1/8" BRASS COUPLER	1	9996
39	****CUTTER SHAFTS COMPLETE****		
	90" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1013
	90" CUTTER SHAFT, 3/16" HD KNIVES	1	46-1011
40	****FLAIL KNIVES****		
	SMOOTH CUT FLAIL KNIFE	48	22-1006
	3/16" HD FLAIL KNIFE	96	22-1016
41	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 FLAIL

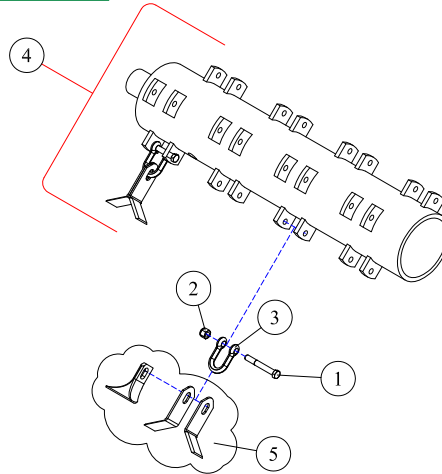


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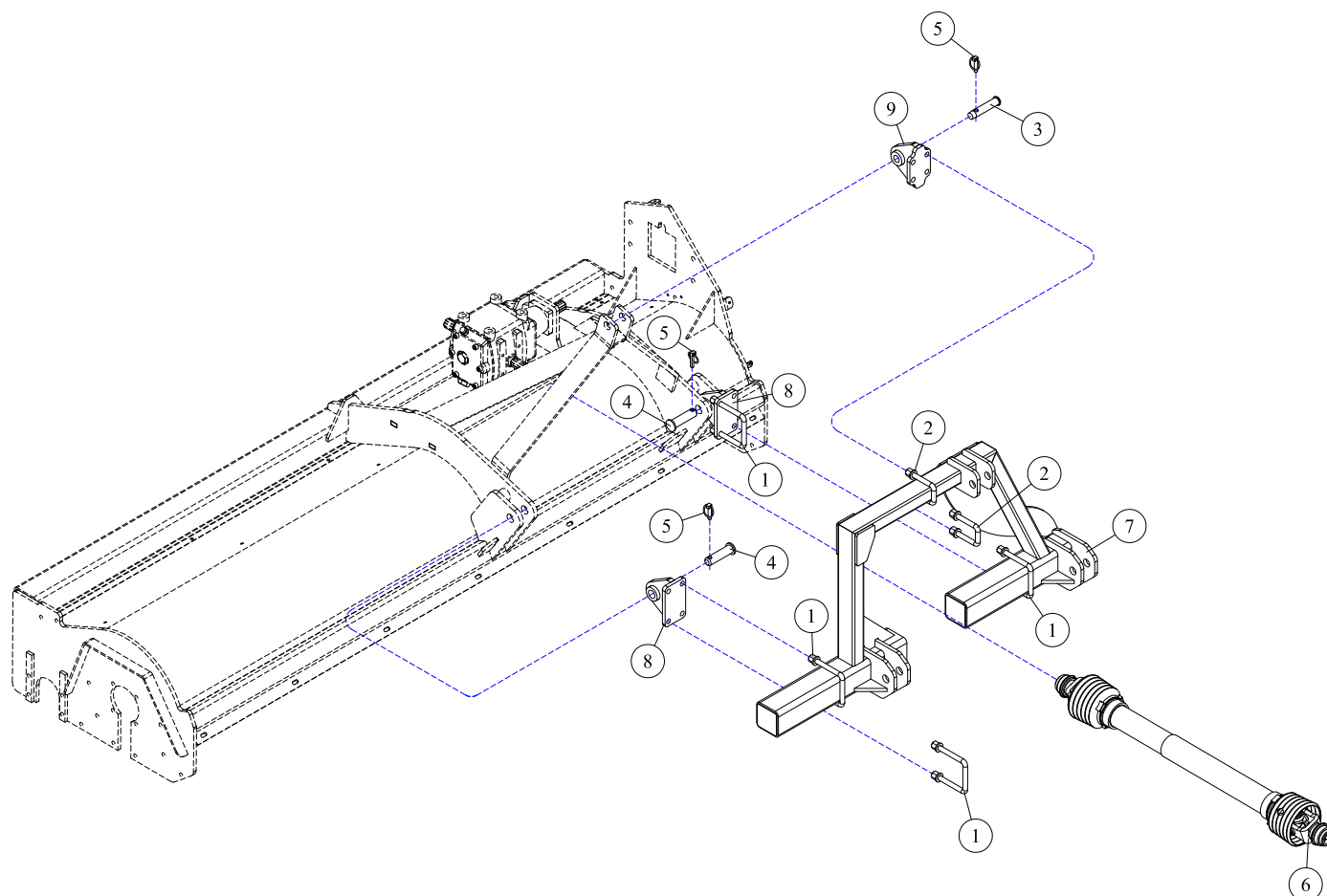
REAR HD FLAIL HEAD - 90" DRIVE ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING FLANGE	1	10-0002
2	8-1/2" PULLEY	1	10-1009
3	8" PULLEY	1	10-1011
4	2-3/16" TAPERLOCK BUSHING	1	10-1012
5	1-1/4" TAPERLOCK BUSHING	1	10-1018
6	IDLER PULLEY	1	10-1019
7	3/8 LOCK WASHER	9	11-0005
8	3/8 FLAT WASHER	5	11-0009
9	1/2 LOCK WASHER	8	11-0011
10	8MM LOCK WASHER	8	11-0021
11	16MM LOCK WASHER	4	11-0028
12	12MM LOCK WASHER	1	11-0031
13	3/4 H.S. FLAT WASHER	1	11-0039
14	8MM FLAT WASHER	4	11-0074
15	3/8 X 1 NC HEX CAPSCREW	5	11-0532
16	3/8 X 1-1/4 NC HEX CAPSCREW	4	11-0533
17	1/2 X 1-1/2 NC HEX CAPSCREW	4	11-0534
18	8MM X 20MM X 1.25 HEX CAPSCREW	8	11-0549
19	3/4 X 3-1/2 NC HEX CAPSCREW	1	11-0551
20	1/2 X 1-1/4 NC HEX CAPSCREW	4	11-0570
21	16MM X 40MM X 2.0 HEX CAPSCREW	4	11-0627
22	12MM X 40MM X 1.75 HEX CAPSCREW	1	11-0672
23	3/8 X 1 H.S. NC SKT HEAD CAPSCREW	1	11-0752
24	3/4 NC NYLOCK NUT	1	11-1006
25	1/2 NC HEX NUT	4	11-1016
26	DOUBLE V-BELT 630	1	12-0009
27	OUTPUT SHAFT		
	DIM A = 44"	1	13-1006

REF#	PARTS DESCRIPTION	REQ	PART #
	DIM A = 23"	1	13-1001
	DIM A = 37-5/16"	1	13-1010
	DIM A = 13"	1	13-1016
	DIM A = 19"	1	13-1049
	DIM A = 35"	1	13-1035
	DIM A = 28-1/4"	1	13-1048
	DIM A = 19"	1	13-1049
28	6 SPLINE COUPLER	1	13-1501
29	GEAR BOX	1	19-0020
30	ROSTA TENSIONER	1	24-0082
31	UPPER 3-POINT PIN	1	27-0007
32	LOWER 3-POINT PIN	2	27-0016
33	7/16 X 2 LYNCH PIN	3	27-1005
34	PTO DRIVE SHAFT	1	29-0003
35	INPUT CONNECTION SHIELD	1	29-0052
36	IDLER SPACER	1	34-0032
37	1/4" KEY	1	37-0002
38	INPUT PTO SHAFT GUARD	1	41-0130
39	SHAFT GUARD		
	DIM B = 42-1/4"	1	41-0321
	DIM B = 21-1/4"	1	41-0322
	DIM B = 35-1/2"	1	41-0323
	DIM B = 11-3/8"	1	41-0324
	DIM B = 27-1/4"	1	41-0349
	DIM B = 33"	1	41-0497
	DIM B = 26-3/16"	1	41-0736
	DIM B = 17-3/8"	1	41-0752
40	BELT GUARD	1	41-0434

HD FLAIL HEAD - BLADE CONFIGURATIONS

REF#	PARTS DESCRIPTION	REQ	PART #
<u>90" FLAIL</u>			
1	KNIFE MOUNTING BOLT	48	11-0506
2	7/16 NYLOCK JAM NUT	48	11-1146
3	CLEVIS	48	11-1501
4	****CUTTER SHAFTS COMPLETE****		
	90" CUTTER SHAFT, 1/8" STD KNIVES	Opt.	46-1000
	90" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1013
	90" CUTTER SHAFT, 3/16" STD KNIVES	1	46-1011
5	****FLAIL KNIVES****		
	1/8" STD FLAIL KNIFE	Avail.	22-1003
	SMOOTH CUT FLAIL KNIFE	Avail.	22-1006
	3/16" HD FLAIL KNIFE	Avail.	22-1016
<u>102" FLAIL</u>			
1	KNIFE MOUNTING BOLT	56	11-0506
2	7/16 NYLOCK JAM NUT	56	11-1146
3	CLEVIS	56	11-1501
4	****CUTTER SHAFTS COMPLETE****		
	102" CUTTER SHAFT, 1/8" STD KNIVES	Opt.	46-1007
	102" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1014
	102" CUTTER SHAFT, 3/16" STD KNIVES	1	46-1016
5	****FLAIL KNIVES****		
	1/8" STD FLAIL KNIFE	Avail.	22-1003
	SMOOTH CUT FLAIL KNIFE	Avail.	22-1006
	3/16" HD FLAIL KNIFE	Avail.	22-1016
<u>60" FLAIL</u>			
1	KNIFE MOUNTING BOLT	32	11-0506
2	7/16 NYLOCK JAM NUT	32	11-1146
3	CLEVIS	32	11-1501
4	****CUTTER SHAFTS COMPLETE****		
	60" CUTTER SHAFT, 1/8" STD KNIVES	Opt.	46-1008
	60" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1012
	60" CUTTER SHAFT, 3/16" HD KNIVES	1	46-1022
5	****FLAIL KNIVES****		
	1/8" STD FLAIL KNIFE	Avail.	22-1003
	SMOOTH CUT FLAIL KNIFE	Avail.	22-1006
	3/6" HD FLAIL KNIFE	Avail.	22-1016
<u>75" FLAIL</u>			
1	KNIFE MOUNTING BOLT	40	11-0506
2	7/16 NYLOCK JAM NUT	40	11-1146
3	CLEVIS	40	11-1501
4	****CUTTER SHAFTS COMPLETE****		
	75" CUTTER SHAFT, 1/8" STD KNIVES	Opt.	46-1005
	75" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1018
	75" CUTTER SHAFT, 3/16" HD KNIVES	1	46-1010
5	****FLAIL KNIVES****		
	1/8" STD FLAIL KNIFE	Avail.	22-1003
	SMOOTH CUT FLAIL KNIFE	Avail.	22-1006
	3/6" HD FLAIL KNIFE	Avail.	22-1016

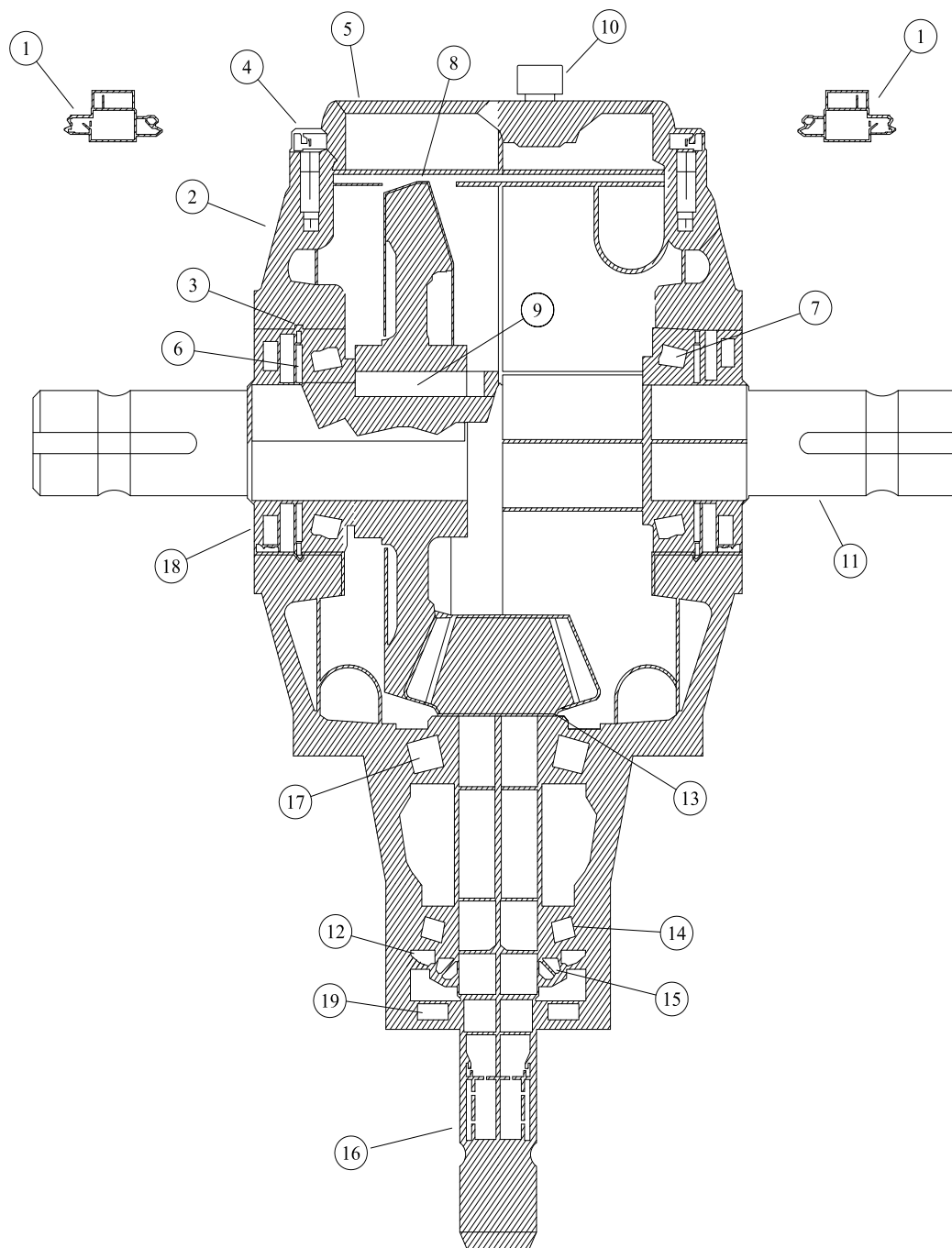
REAR HD FLAIL HEAD - OFFSET KIT ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	U-BOLT, 5-3/4 X 4-5/8 X 5/8	4	11-2062
2	U-BOLT, 4-3/4 X 2-3/4 X 5/8	2	11-2063
3	PIN (TOP)	1	27-0007
4	PIN (BOTTOM)	2	27-0016
5	LYNCH PIN	3	27-1005

REF#	PARTS DESCRIPTION	REQ	PART #
6	PTO SHAFT	1	29-0143
7	REAR BRACKET	1	41-1222
8	LOWER MOUNT	2	41-1223
9	UPPER MOUNT	1	41-1224

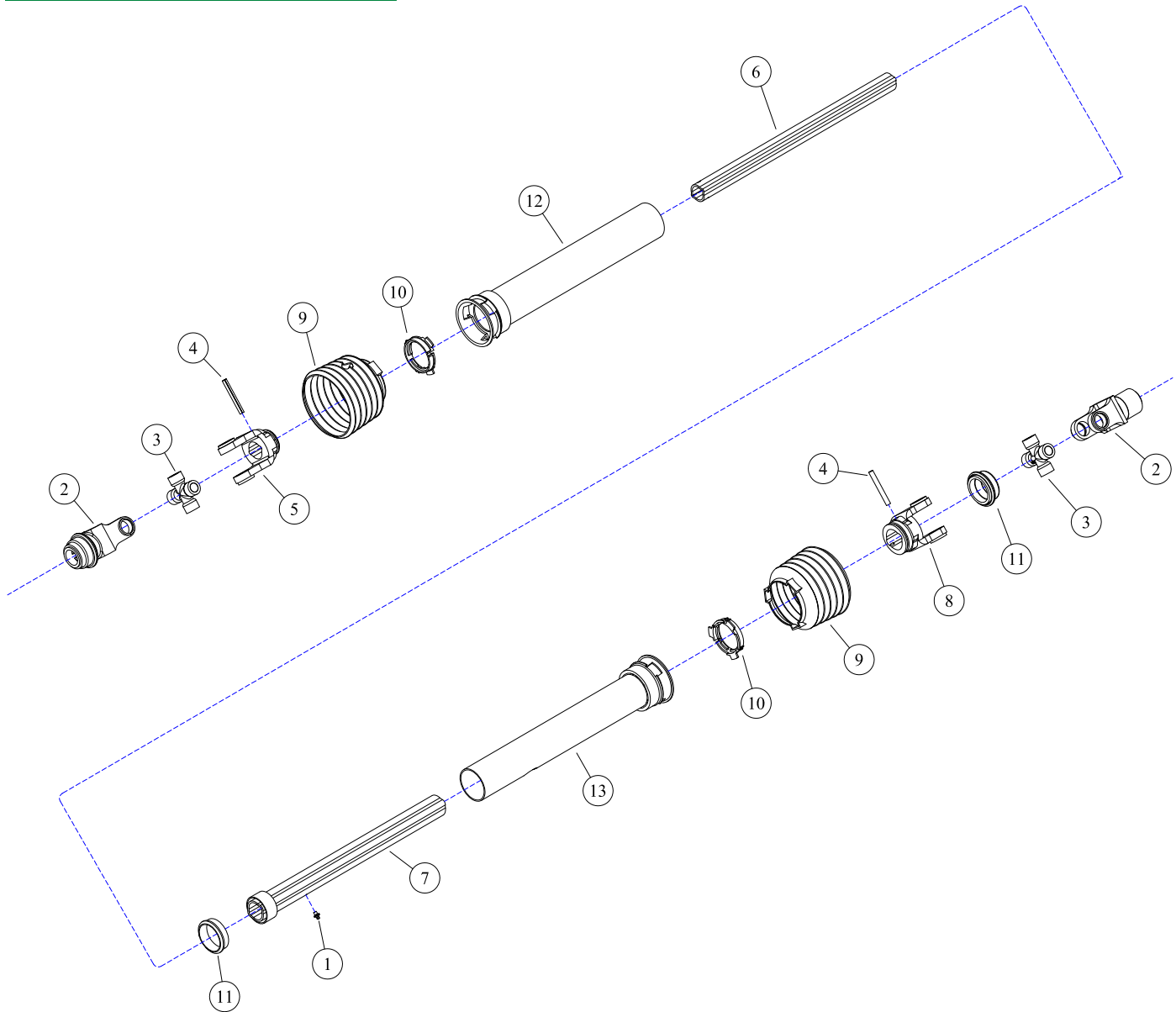
DECK ASSEMBLIES



19-0020 - GEAR BOX ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	PLUG 1/2" GAS	2	19-0001
2	GEAR BOX HOUSING	1	19-0017
3	SNAP RING	2	19-0022
4	8MM - 25MM BOLT	6	19-0023
5	GEAR BOX COVER	1	19-0024
6	SHIM	2	19-0025
7	BEARING	2	19-0026
8	GEAR	1	19-0027
9	PARALLEL KEY	1	19-0028
10	OIL FILL PLUG	1	19-0039

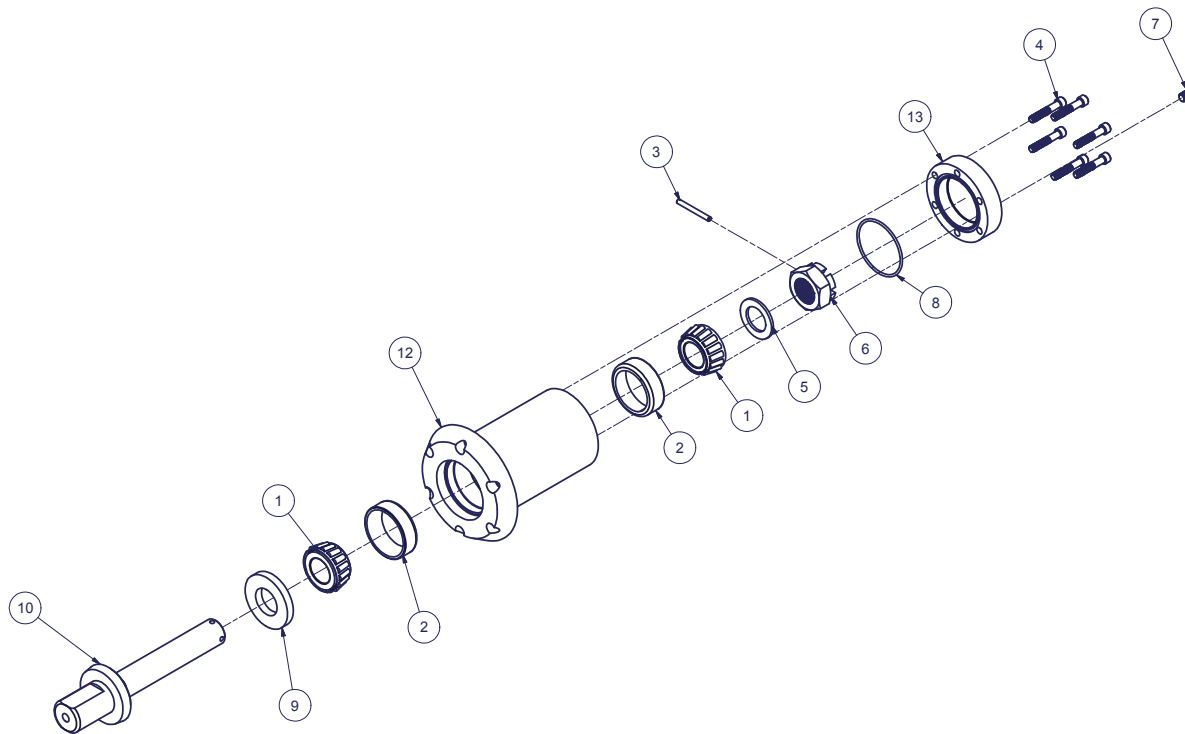
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11	SHAFT	1	19-0030
12	SPRING WASHER	1	19-0031
13	SHIM	1	19-0032
14	BEARING	1	19-0033
15	LOCK NUT	1	19-0034
16	PINION	1	19-0035
17	BEARING	1	19-0036
18	OIL SEAL	2	33-0007
19	DOUBLE LIP SEAL	1	33-0021

29-0003 - DRIVE LINE ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	ZERK	1	23-0004
2	YOKE 1-3/8" 6 SPLINE	2	29-0018
3	CROSS & BEARING KIT	2	29-0019
4	SPRING PIN	2	29-0020
5	INBOARD YOKE 1B	1	29-0021
6	INNER PROFILE	1	29-0022
7	PROFILE & SLEEVE	1	29-0023
8	INBOARD YOKE 2A	1	29-0024
9	SHIELD CONE	2	29-0025
10	BEARING RING	2	29-0026
11	SUPPORT BEARING	1	29-0027
12	OUTER SHIELD TUBE	1	29-0028
13	INNER SHIELD TUBE	1	29-0029
14	COLLAR REPAIR KIT	2	29-0030
15	PTO SHAFT COMPLETE	Avail	29-0003

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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