PARTS BOOK

FLAIL HEADS

• 42" CUT• BOOM MOUNT • SERIAL #23369+ •

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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FLAIL HEADS

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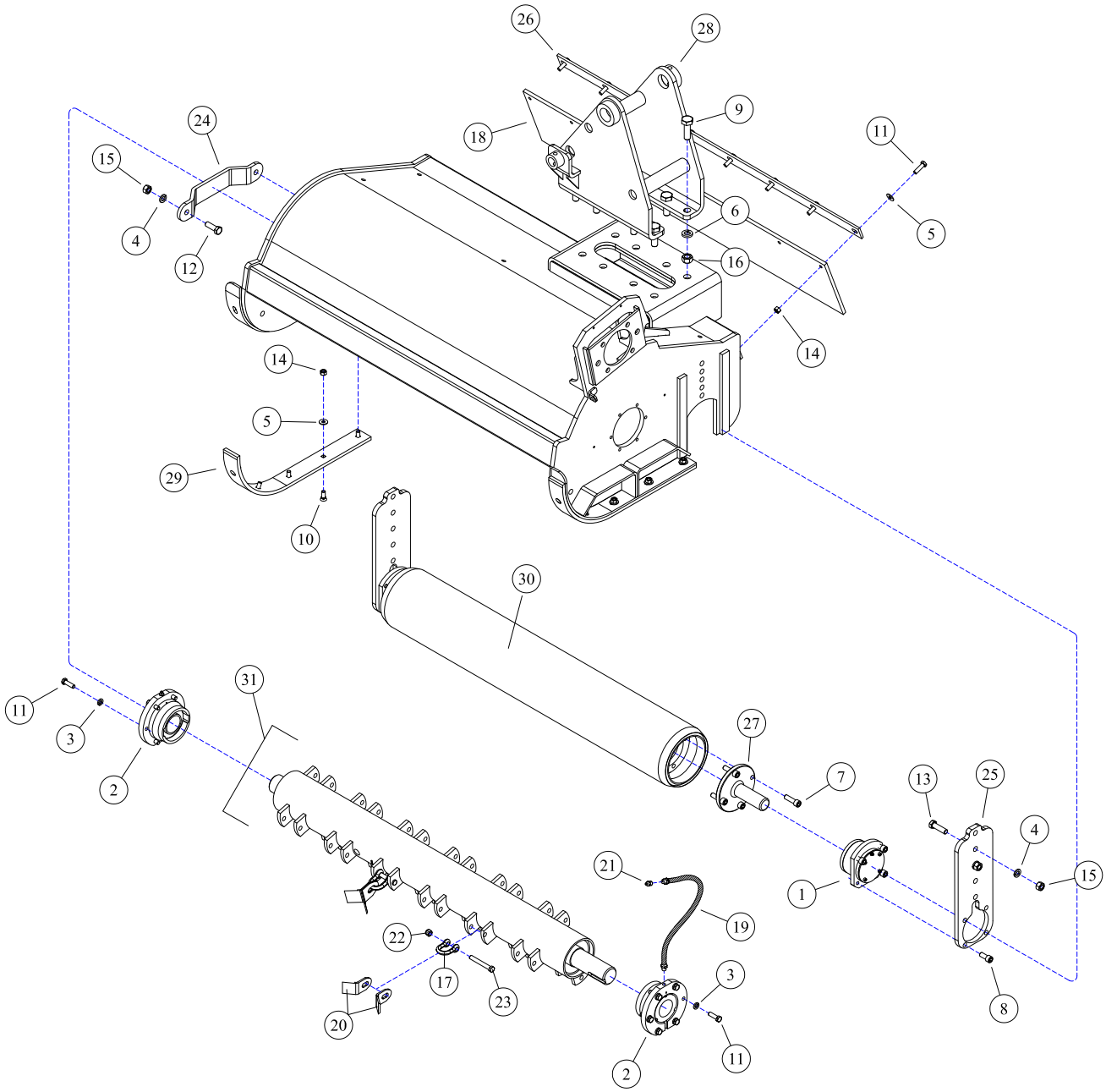
BOOM FLAIL HEAD - 42" CUTTER ASSEMBLY



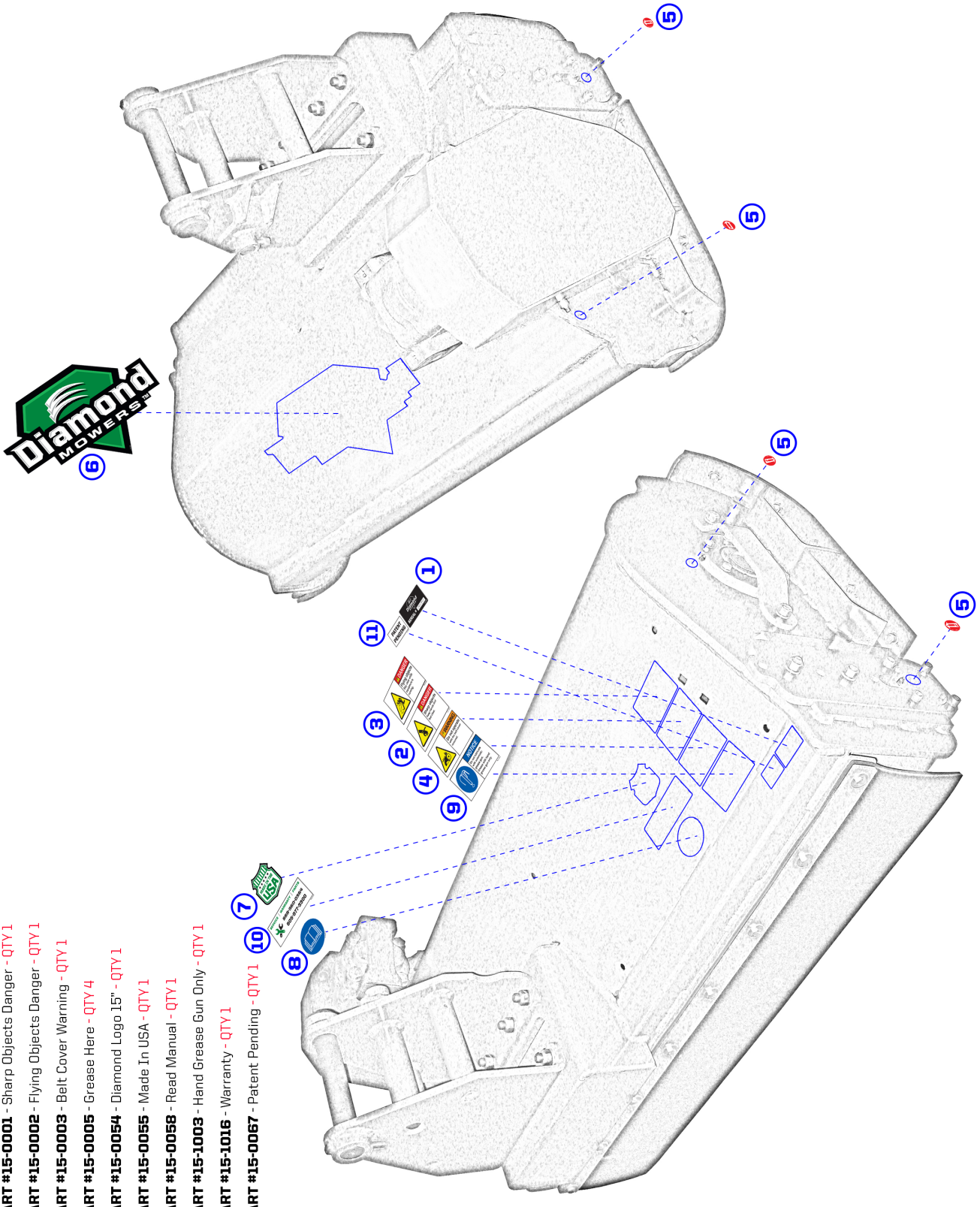
REF#	PARTS DESCRIPTION	REQ	PART #
1	GROUND ROLLER BEARING	2	10-0057
2	CUTTERSHAFT BEARING	2	10-0059
3	3/8 LOCK WASHER	12	11-0005
4	1/2 LOCK WASHER	6	11-0011
5	5/16 FLAT WASHER	18	11-0015
6	5/8 H.S. LOCK WASHER	8	11-0043
7	7/16 X 1-1/2 NC SOCKET HEAD CAPSCREW	8	11-0504
8	7/16 X 1 NC SOCKET HEAD CAPSCREW	8	11-0505
9	5/8 X 2 H.S. NF HEX CAPSCREW	8	11-0508
10	3/8 X 1 NC PLOW BOLT	10	11-0511
11	3/8 X 1-1/4 NC HEX CAPSCREW	20	11-0533
12	1/2 X 1-1/2 NC HEX CAPSCREW	2	11-0534
13	1/2 X 1-3/4 NC HEX CAPSCREW	4	11-0535
14	3/8 NC HEX NUT	18	11-1001
15	1/2 NC HEX NUT	6	11-1016
16	5/8 H.S. NF STOVER NUT	8	11-1143

REF#	PARTS DESCRIPTION	REQ	PART #
17	FLAIL CLEVIS	24	11-1501
18	42" FLAP	1	18-0063
19	GREASE ZERK HOSE	1	21-0002
20	HEAVY DUTY SHORT FLAIL KNIFE	48	22-1001
21	1/8" FEMALE GREASE ZERK	1	23-0008
22	7/16 NC NYLOCK JAM NUT	24	11-1146
23	BOLT 7/16 X 3-1/4 NC, 1/2" THREAD	24	11-0506
24	CUTTERSHAFT GUARD	1	31-0136
25	GROUND ROLLER ADJ. PLATE	2	31-0137
26	42" FLAP RETAINING BAR	1	31-0200
27	ROLLER STUB SHAFT	2	35-0008
28	MAST	1	41-0195
29	SKID SHOE	2	42-0012
30	42" GROUND ROLLER	1	46-0040
31	42" CUTTER SHAFT COMPLETE	1	46-1036

Asy: 42" cutter assembly Rev: A

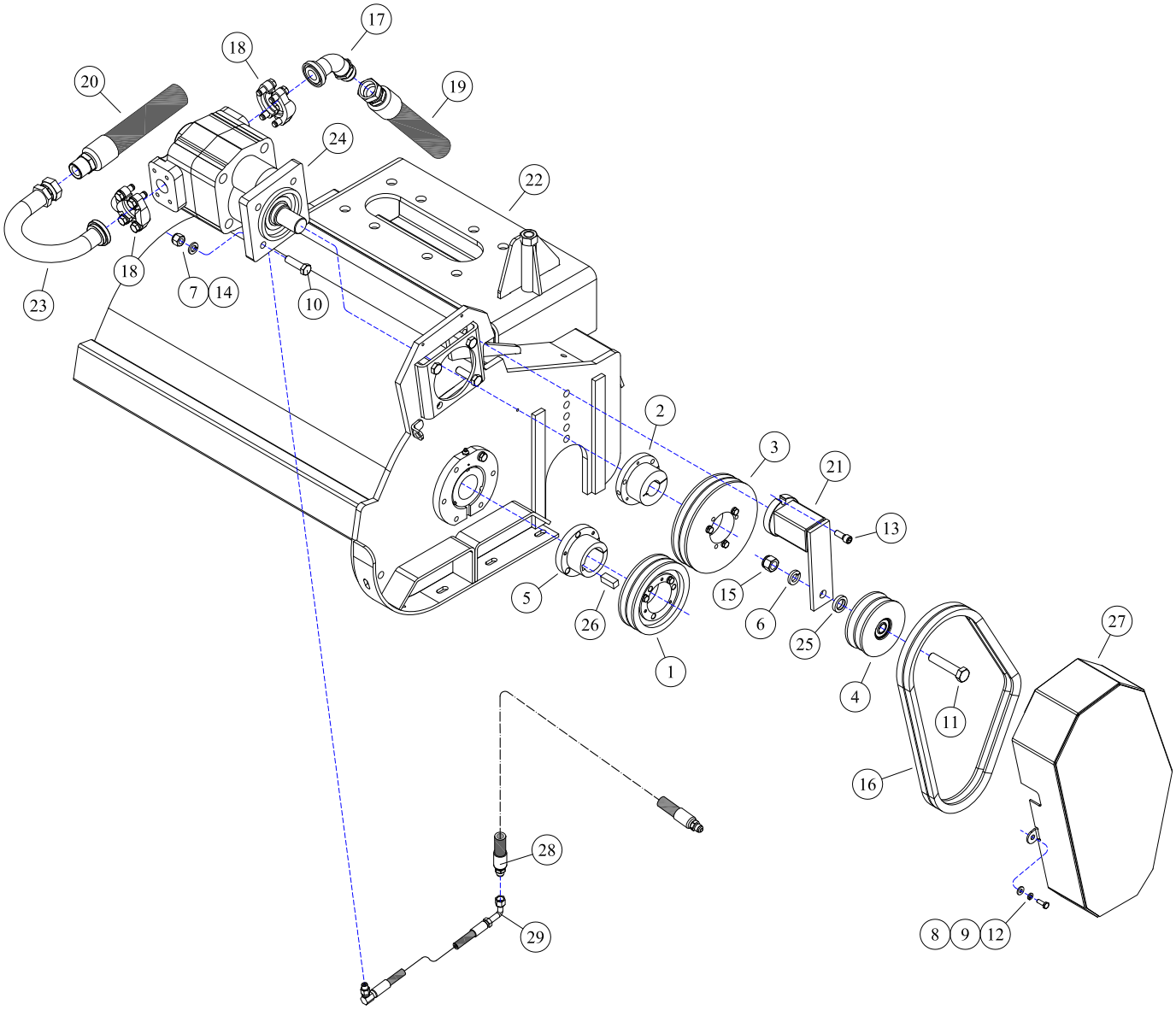
DECAL IDENTIFICATION - BOOM FLAIL

090718



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 #15-1003** - Hand Grease Gun Only - QTY 1
⑩ **PART #15-1016** - Warranty - QTY 1
⑪ **PART #15-0067** - Patent Pending - QTY 1

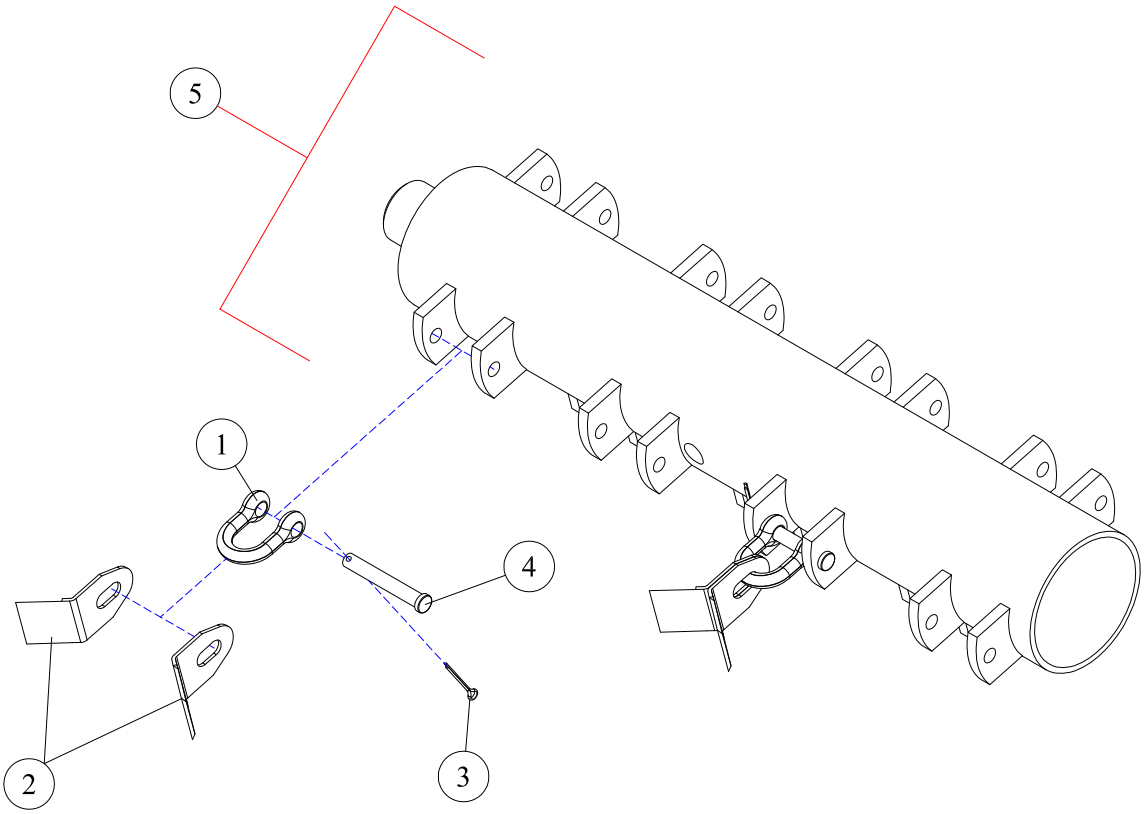
BOOM FLAIL HEAD - 42" DRIVE ASSEMBLY



REF#	PARTS DESCRIPTION	REQ	PART #
1	SHEAVE 6.3	1	10-1007
2	1-1/4" TAPERLOCK BUSHING	1	10-1010
3	SHEAVE 7.1	1	10-1015
4	SHEAVE IDLER ASSEMBLY 4.4	1	10-1016
5	1-15/16" TAPERLOCK BUSHING	1	10-1017
6	5/8 LOCK WASHER	1	11-0004
7	1/2 LOCK WASHER	4	11-0011
8	1/4 LOCK WASHER	2	11-0020
9	1/4 FLAT WASHER	2	11-0023
10	1/2 X 1-3/4 NC HEX CAPSCREW	4	11-0535
11	5/8 X 3 NC HEX CAPSCREW	1	11-0558
12	1/4 X 3/4 NC HEX CAPSCREW	2	11-0588
13	3/8 X 1 H.S. NC SKT HEAD	1	11-0752
14	1/2 NC NYLOCK NUT	4	11-1018
15	5/8 NC NYLOCK NUT	1	11-1025

REF#	PARTS DESCRIPTION	REQ	PART #
16	SINGLE 450 V-BELT	2	12-0048
17	#20FLG X 1MJIC-45DEG, ADAPTER	1	21-1268
18	FLANGE KIT	2	21-2105
19	HOSE 3/4 X 70 (3/4MJIC X 1FJIC)	1	21-3648
20	HOSE 3/4 X 79 (3/4MJIC X 1MP)	1	21-3649
21	ROSTA TENSIONER	1	24-0081
22	FLAIL BONNET	1	25-0122
23	TUBE	1	28-0014
24	MOTOR	1	30-0525
25	IDLER SPACER	1	34-0033
26	KEY 1/2" X 2	1	37-0026
27	BELT SHIELD	1	41-0815
28	HOSE 3/8 X 71 (3/8MJIC X 3/8MJIC)	1	21-4349
29	HOSE 1/4 X 12 (1/4MORB-90DEG X 3/8FJIC)	1	21-4350

BOOM FLAIL HEAD - 42" & 63" BLADE CONFIGURATIONS



REF#	PARTS DESCRIPTION	REQ	PART #
	42" STANDARD DUTY BOOM FLAIL		
1	FLAIL CLEVIS	24	11-1501
2	HEAVY DUTY SHORT FLAIL KNIFE	48	22-1001
3	COTTER PIN 1/8 X 1-1/4	24	27-1009
4	CLEVIS PIN 7/16 X 3	24	27-1013
5	42" CUTTER SHAFT COMPLETE	1	46-1036
	63" STANDARD DUTY BOOM FLAIL		
1	CLEVIS	40	11-1501
2	HEAVY DUTY SHORT FLAIL KNIFE	80	22-1001
3	COTTER PIN 1/8 X 1-1/4	40	27-1009
4	CLEVIS PIN 7/16 X 3	40	27-1013
5	CUTTER SHAFT COMPLETE	1	46-1035

DECK ASSEMBLIES

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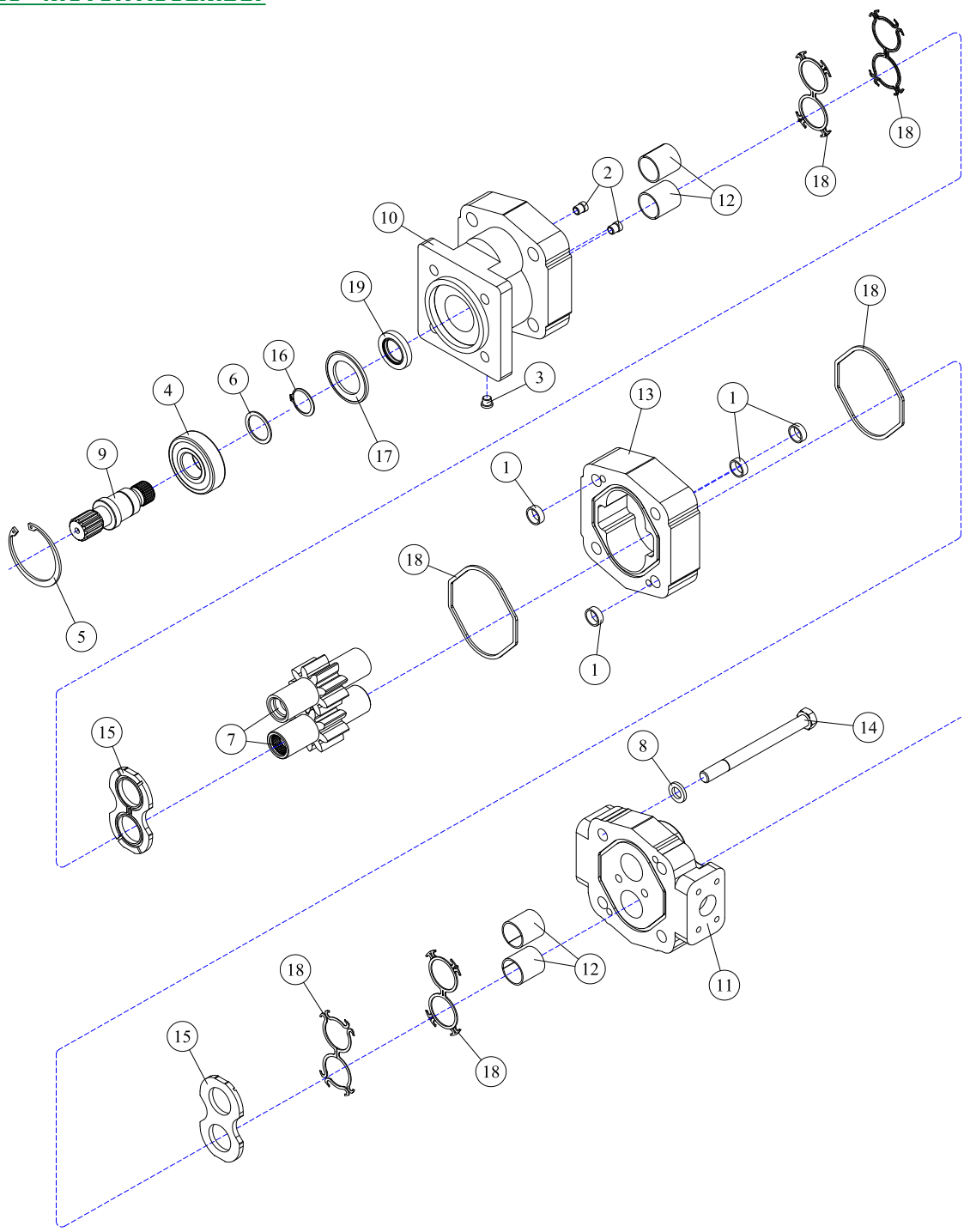
30-0525 - MOTOR ASSEMBLY



REF#	PARTS DESCRIPTION	REQ	PART #
1	DOWEL PIN	4	30-1086
2	CHECK ASSEMBLY	2	30-1087
3	PLUG	1	30-1096
4	OUTBOARD BEARING	1	30-1109
5	SNAP RING	1	30-1110
6	BEARING SPACER	1	30-1112
7	GEAR SET, M330, 1-1/4"	1	30-1191
8	WASHER	4	30-1127
9	CONTINENTAL SHAFT	1	30-1130
10	SHAFT END COVER	1	30-1182

REF#	PARTS DESCRIPTION	REQ	PART #
11	PORT END COVER	1	30-1183
12	BUSHING (included in shaft & port covers)	4	Call
13	GEAR HOUSING, M330, 1-1/4"	1	30-1192
14	STUD	4	30-1185
15	THRUST PLATE	2	30-1186
16	RETAINING RING	1	30-1187
17	SEAL RETAINER	1	30-1188
18	M330 SEAL KIT	Avail	30-1189
19	SHAFT SEAL 150 PSI (included in M330 seal kit)	1	30-1190

MISCELLANEOUS ASSEMBLIES

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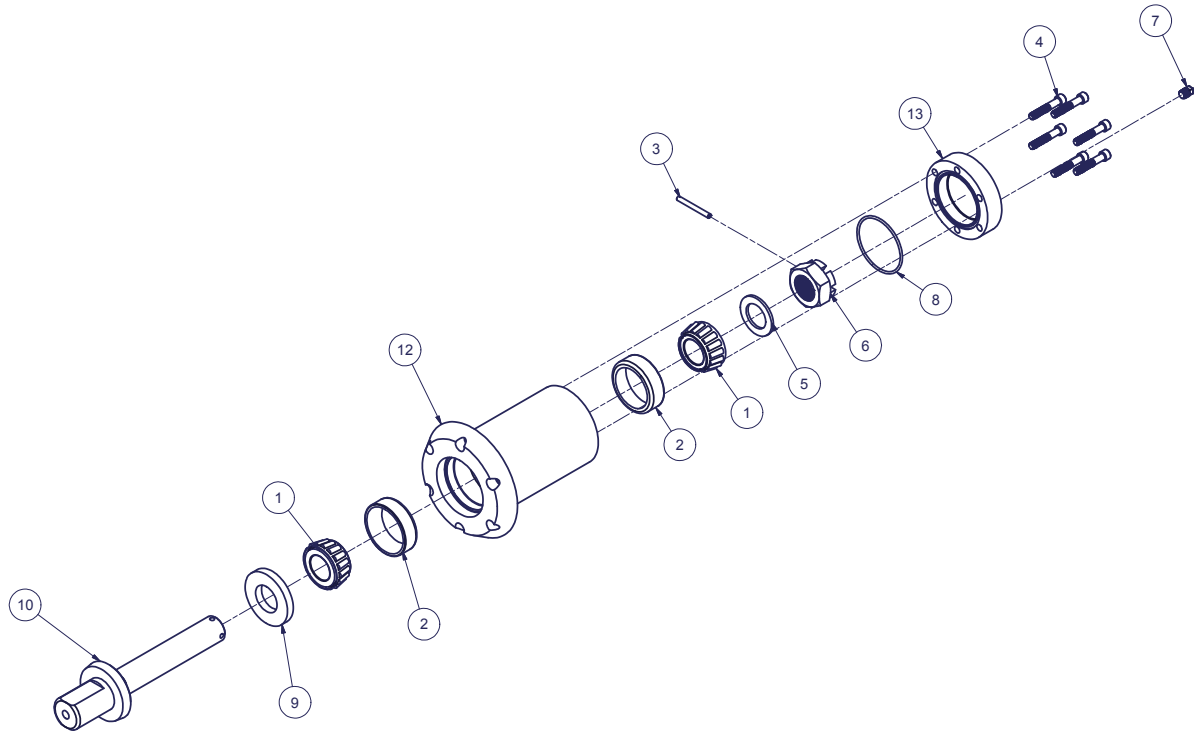
BEARING - GROUND ROLLER, 10-1051



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		

10-1051	Rev 000

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72-HOUR PARTS
SHIPPING GUARANTEE