



PARTS BOOK

FLAIL HEADS

• 75" SIDE • MID-MOUNT • 5.10.18 •

DIAMOND MOWERS, LLC
350 E 60th St. North
Sioux Falls, SD 57104

FOR WARRANTY CALL DIAMOND MOWERS DIRECT:
888-960-0364

OUR TECHNICIANS WILL DIAGNOSE YOUR SITUATION
OVER THE PHONE TO GET YOU UP AND RUNNING QUICKLY.

Phone: 605-977-3300
Fax: 605-655-5870
www.diamondmowers.com

DEMAND BRILLIANCE.

© DIAMOND MOWERS, LLC



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.

Diamond Mowers, LLC™ and Wetblade™ are trademarks of Diamond Mowers, LLC.

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

Copyright© 2016 Diamond Mowers, LLC

All rights reserved. While every precaution has been taken in the preparation of this manual, the publisher assumes no responsibility for errors or omissions. No part of this book covered by the copyrights hereon may be reproduced or copied in any form or by any means - graphic, electronic, or mechanical, including photocopying, taping, or information storage and retrieval systems - without written permission of the publisher.

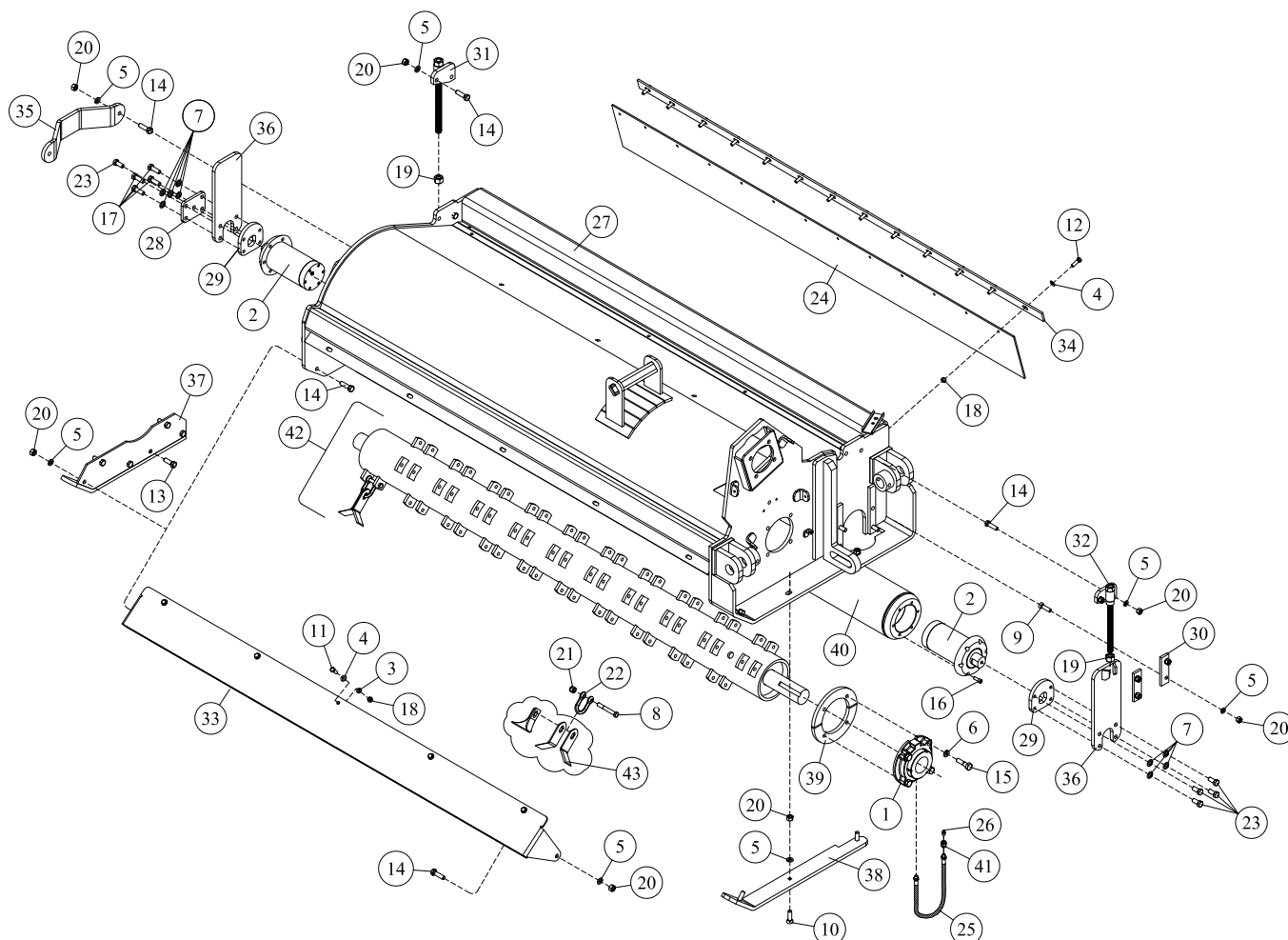


Table of Contents

FLAIL HEADS	4
SIDE HD FLAIL HEAD - 75" CUTTER ASSEMBLY, RIGHT SIDE.....	5
DECAL IDENTIFICATION - SIDE FLAIL.....	6
SIDE HD FLAIL HEAD - 75" DRIVE ASSEMBLY.....	7
SIDE HD FLAIL HEAD - TRAVEL REST, SINGLE ACTING OUTBOARD.....	8
SIDE HD FLAIL HEAD - TRAVEL REST, DOUBLE ACTING OUTBOARD.....	9
HD FLAIL HEAD - BLADE CONFIGURATIONS.....	10
DECK ASSEMBLIES	11
30-0509 - MOTOR ASSEMBLY.....	12
19-0020 - GEAR BOX ASSEMBLY.....	13
29-0003 - DRIVE LINE ASSEMBLY.....	14
LIFT ASSEMBLIES	15
14-0001 - 3X10 WELDED CYLINDER.....	16
14-0004 - 3X12 WELDED CYLINDER, SLUGGED.....	17
ELECTRICAL ASSEMBLIES	18
LIMIT SWITCH - DRAFT BEAM HEIGHT LIMITER.....	19
MISCELLANEOUS ASSEMBLIES	20
BEARING - GROUND ROLLER, 10-1067.....	21

FLAIL HEADS



SIDE HD FLAIL HEAD - 75" CUTTER ASSEMBLY, RIGHT SIDE

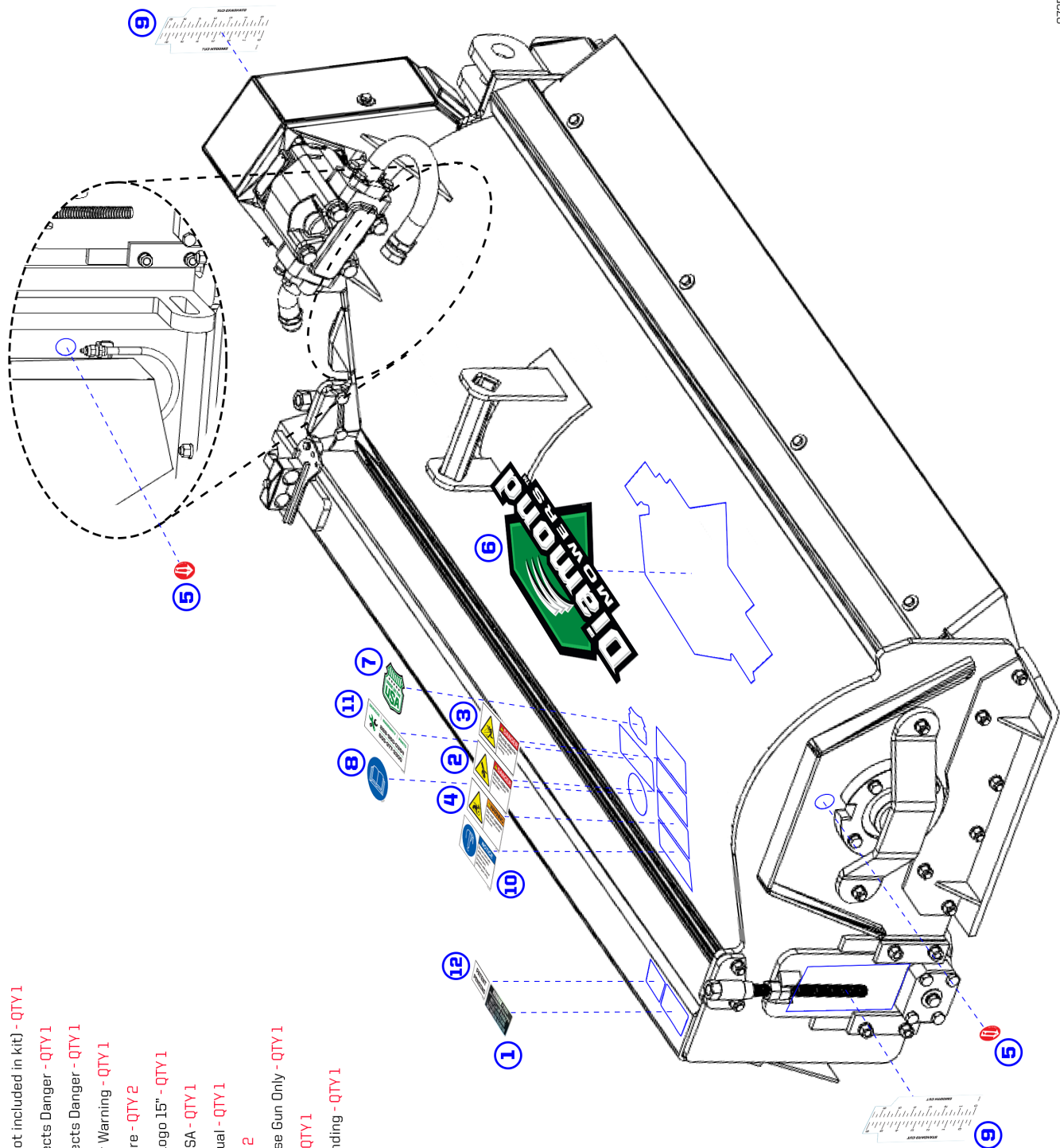
REF#	PARTS DESCRIPTION	REQ	PART #
1	CUTTERSHAFT BEARING	2	10-0006
2	OIL BATH REPLACEMENT BEARING	2	10-1067
3	3/8 LOCK WASHER	5	11-0005
4	3/8 FLAT WASHER	18	11-0009
5	1/2 LOCK WASHER	24	11-0011
6	1/2 H.S. LOCK WASHER	8	11-0036
7	1/2 SAE FLAT WASHER GR 8	9	11-0042
8	KNIFE MOUNTING BOLT	40	11-0506
9	1/2 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	5	11-0532
12	3/8 X 1-1/4 NC HEX CAPSCREW	13	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 CAP SCREW	4	11-0972
18	3/8 NC HEX NUT	18	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	40	11-1146
22	CLEVIS	40	11-1501
23	1/2-13 X 1-1/8 GR 8 HEX CAP SCREW	5	11-2154
24	75" FLAP	1	18-0011
25	GREASE ZERK HOSE	1	21-0002
26	1/8" GREASE ZERK	2	23-0003
27	75" RIGHT FLAIL BONNET	1	25-0037

REF#	PARTS DESCRIPTION	REQ	PART #
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 OUTSIDE	1	41-0005
32	ADJUSTMENT ROD INSIDE	1	41-0006
33	75" TRASH GUARD	1	41-0036
34	75" FLAP BAR	1	41-0068
35	CUTTERSHAFT GUARD	1	41-0097
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	75" GROUND ROLLER	1	46-0051
41	1/8" BRASS COUPLER	1	9996
42	****CUTTER SHAFTS COMPLETE****		
	75" CUTTER SHAFT, SMOOTH CUT KNIVES	Opt.	46-1018
	75" CUTTER SHAFT, 3/16" HD KNIVES	1	46-1010
43	****FLAIL KNIVES****		
	SMOOTH CUT FLAIL KNIFE	40	22-1006
	3/6" HD FLAIL KNIFE	80	22-1016
44	BLADE KITS		
	SIDE FLAIL ONLY		
	Includes 11-0506, 11-1146, & 22-1006 (smooth)	1	44-0263
	Includes 11-0506, 11-1146, & 22-1016 (HD)	1	44-0242
	TRIPLE FLAIL (75" sides, 102" rear)		
	Includes 11-0506, 11-1146, & 22-1006 (smooth)	1	44-0265
	Includes 11-0506, 11-1146, & 22-1016 (HD)	1	44-0249

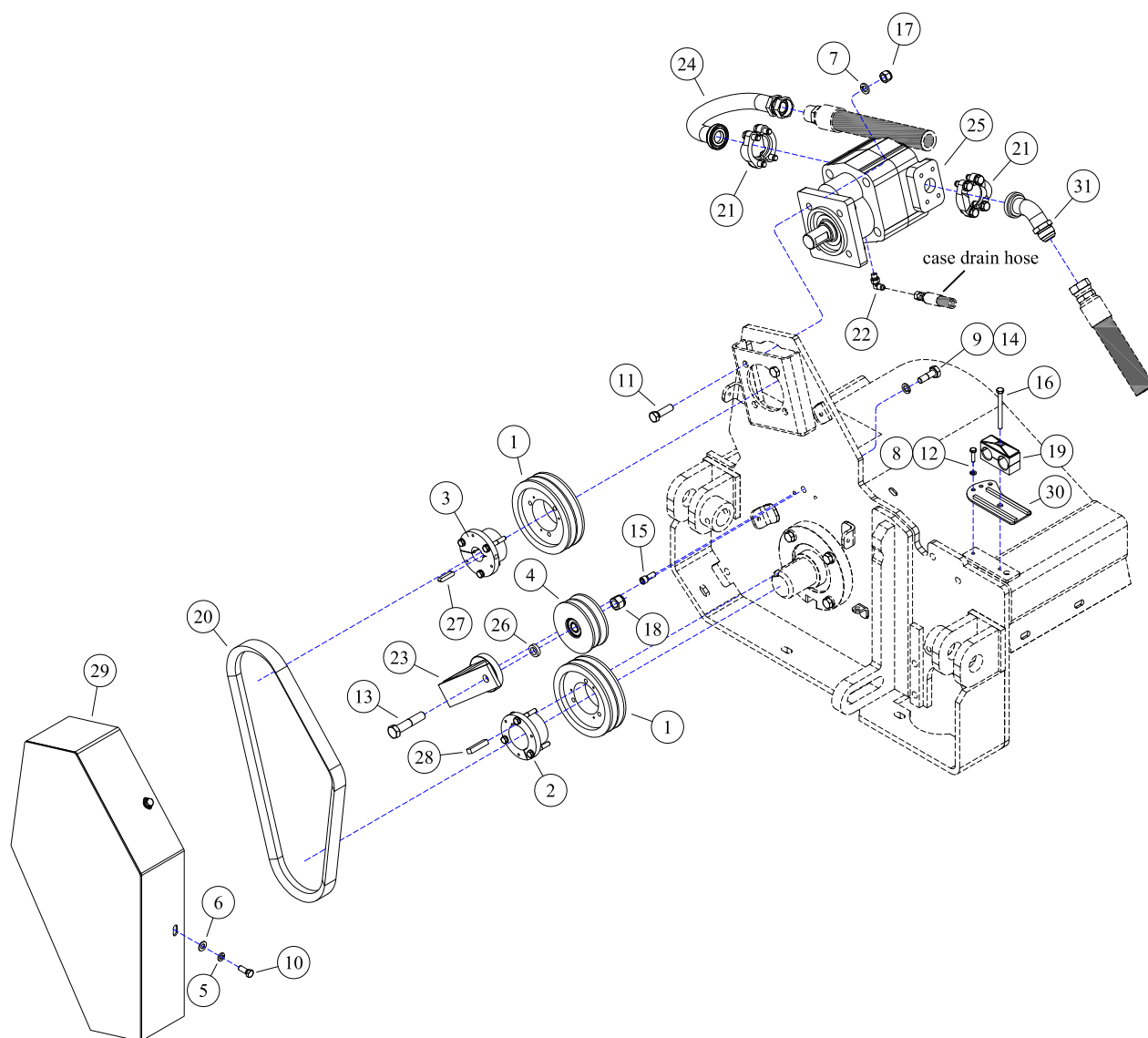
Asy: 75" right flail, cutter assembly

DECAL IDENTIFICATION - SIDE FLAIL

072518

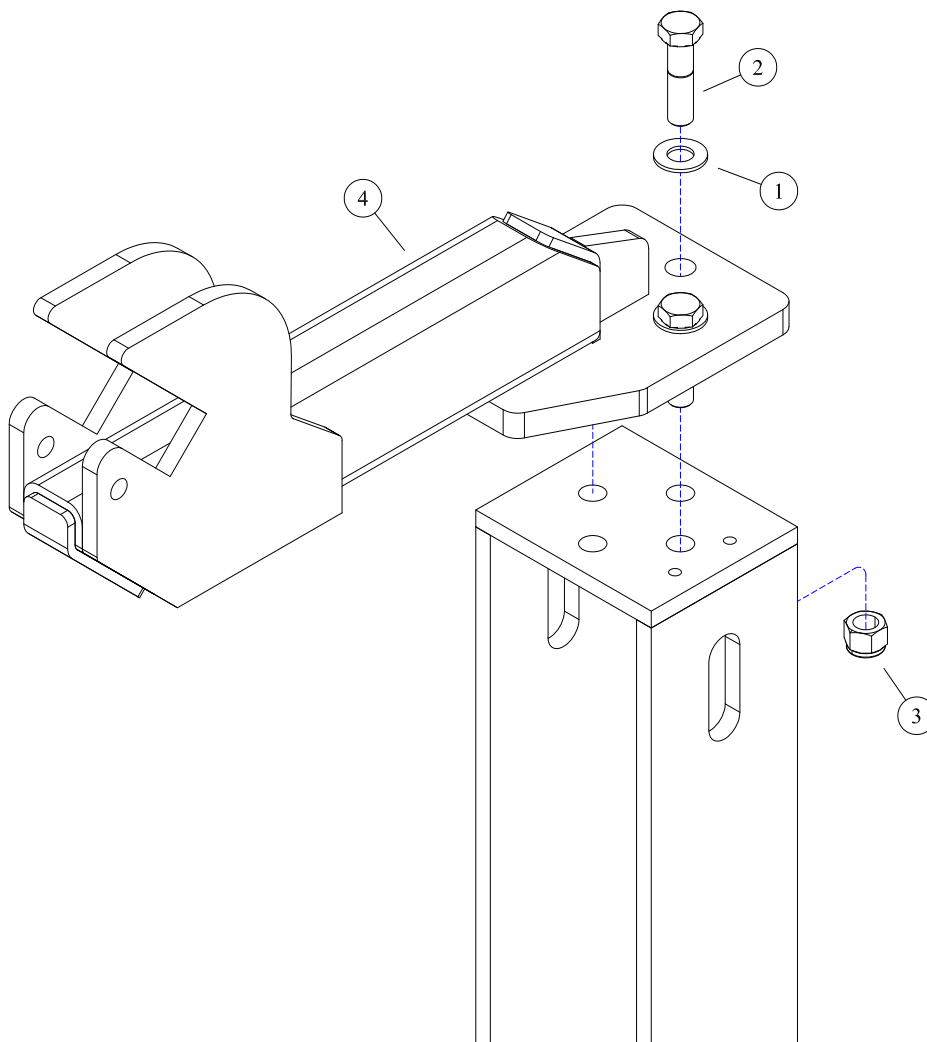


- ① SERIAL NUMBER LABEL - (not included in kit) - QTY 1
- ② PART #15-0001 - Sharp Objects Danger - QTY 1
- ③ PART #15-0002 - Flying Objects Danger - QTY 1
- ④ PART #15-0003 - Belt Cover Warning - QTY 1
- ⑤ PART #15-0005 - Grease Here - QTY 2
- ⑥ PART #15-0054 - Diamond Logo 15" - QTY 1
- ⑦ PART #15-0055 - 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

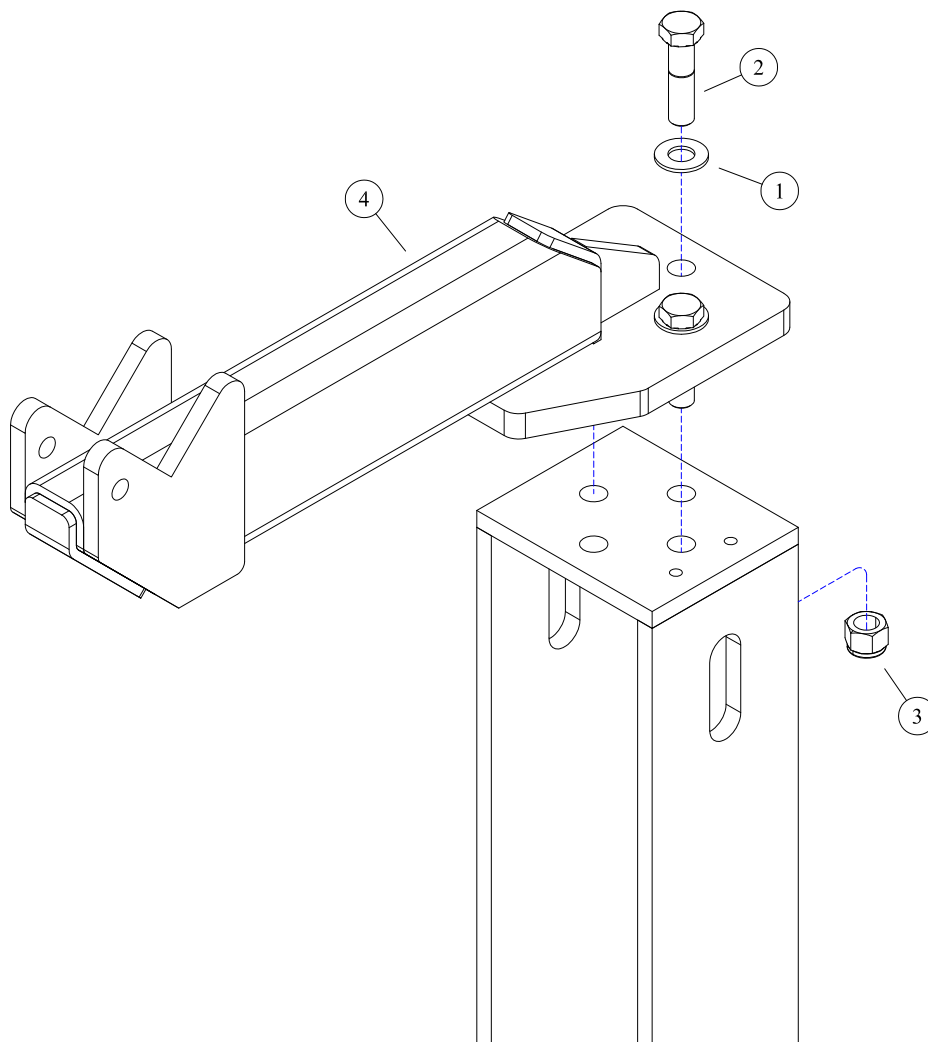
SIDE HD FLAIL HEAD - 75" DRIVE ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	PULLEY, 6.3"	2	10-1007
2	TAPERLOCK, 2-3/16"	1	10-1012
3	TAPERLOCK, 1-1/4"	1	10-1014
4	IDLER PULLEY, 4.4"	1	10-1016
5	3/8 LOCK WASHER	4	11-0005
6	3/8 FLAT WASHER	4	11-0009
7	1/2 LOCK WASHER	4	11-0011
8	1/4 LOCK WASHER	1	11-0020
9	12 MM LOCK WASHER	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	1/4 X 1 NC HEX CAP	1	11-0550
13	5/8 X 3 NC HEX CAPSCREW	1	11-0558
14	12 MM X 40 MM - 1.75 HEX CAPSCREW	1	11-0672
15	3/8 X 1 H.S. NC SOCKET HEAD CAPSCREW	1	11-0752
16	5/16 X 3-1/2 NC HEX CAPSCREW	1	11-0782

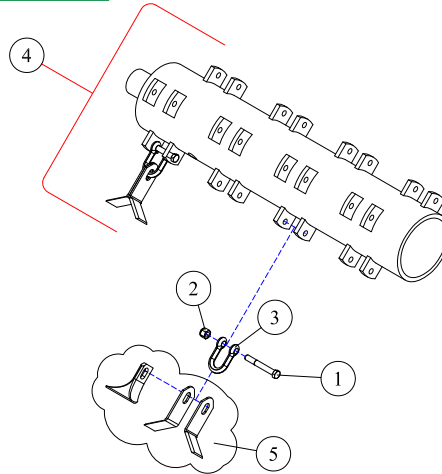
REF#	PARTS DESCRIPTION	REQ	PART #
17	1/2 NC NYLOCK NUT	4	11-1018
18	5/8 NC NYLOCK NUT	1	11-1025
19	1" DOUBLE HOSE CLAMP	1	11-2008
20	DRIVE BELT	1	12-0007
21	#20 FLANGE KIT	2	21-2105
22	1/4MORB-90DEG X 1/4MJIC, ADAPTER	1	21-1264
23	ROSTA TENSIONER	1	24-0081
24	TUBE	1	28-0014
25	MOTOR	1	30-0509
26	SPACER	1	34-0033
27	MOTOR KEY	1	37-0020
28	CUTTERSHAFT KEY	1	37-0021
29	BELT SHIELD	1	41-0430
30	FLAIL HOSE CLAMP	1	41-0643
31	#20FLG X 1MJIC-45DEG	1	21-1268

SIDE HD FLAIL HEAD - TRAVEL REST, SINGLE ACTING OUTBOARD

REF#	PARTS DESCRIPTION	REQ	PART #
1	5/8 FLAT WASHER	3	11-0025
2	5/8 X 2-1/2 NC HEX CAPSCREW	3	11-0538
3	5/8 NC NYLOCK NUT	3	11-1025
4	TRAVEL LOCK/REST	1	41-0361

SIDE HD FLAIL HEAD - TRAVEL REST, DOUBLE ACTING OUTBOARD

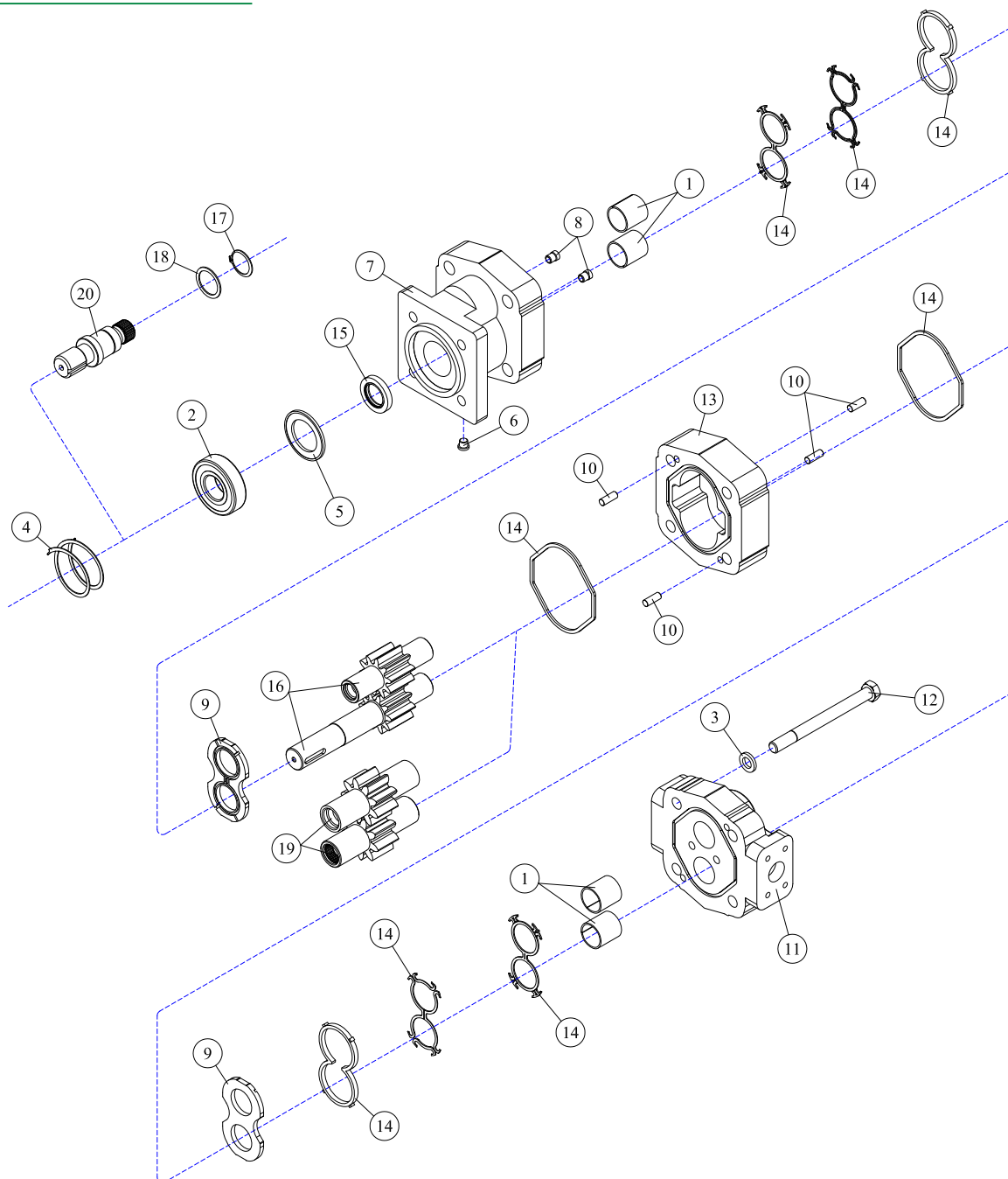
REF#	PARTS DESCRIPTION	REQ	PART #
1	5/8 FLAT WASHER	3	11-0025
2	5/8 X 2-1/2 NC HEX CAPSCREW	3	11-0538
3	5/8 NC NYLOCK NUT	3	11-1025
4	TRAVEL LOCK/REST	1	41-0844

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

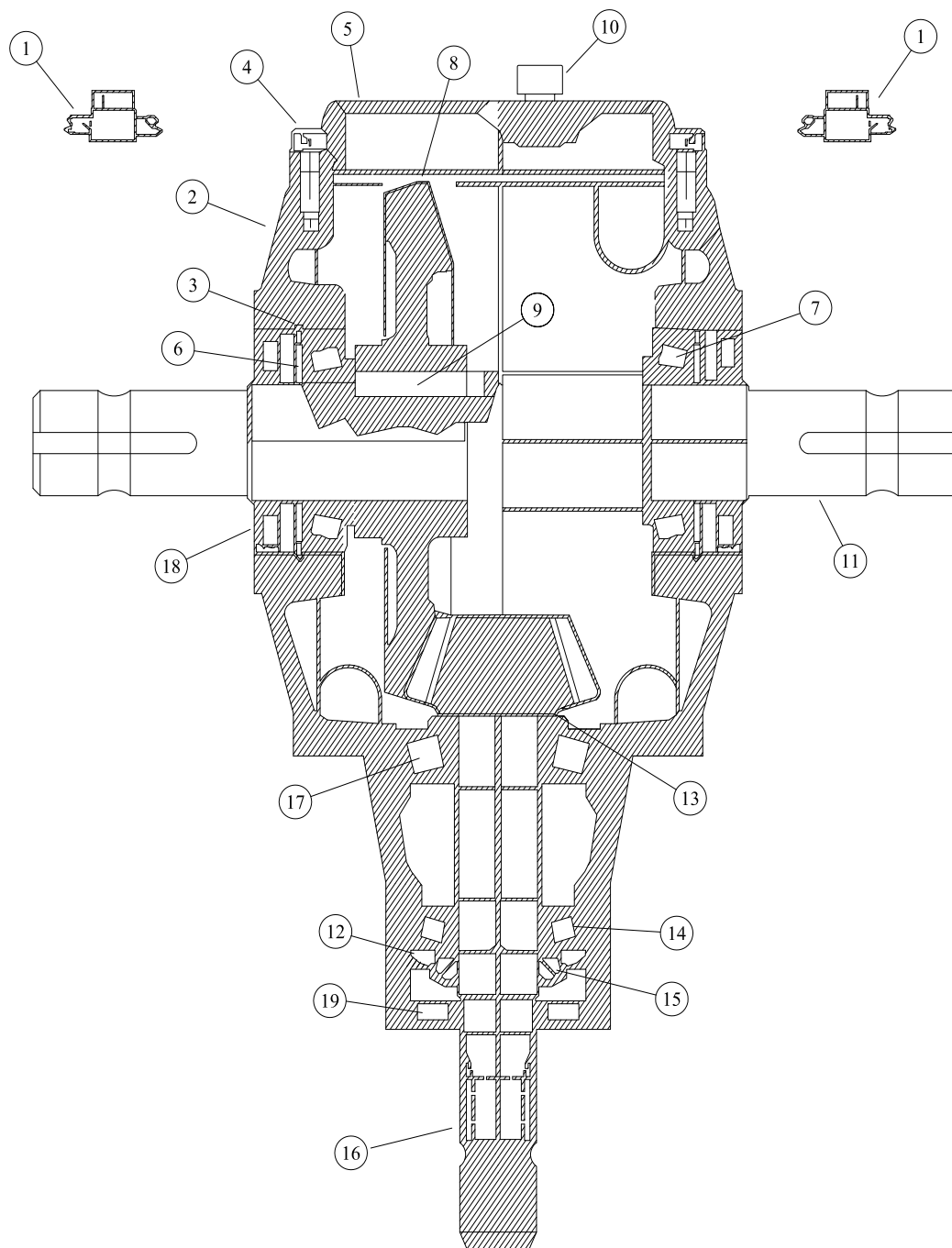
DECK ASSEMBLIES



30-0509 - MOTOR ASSEMBLY

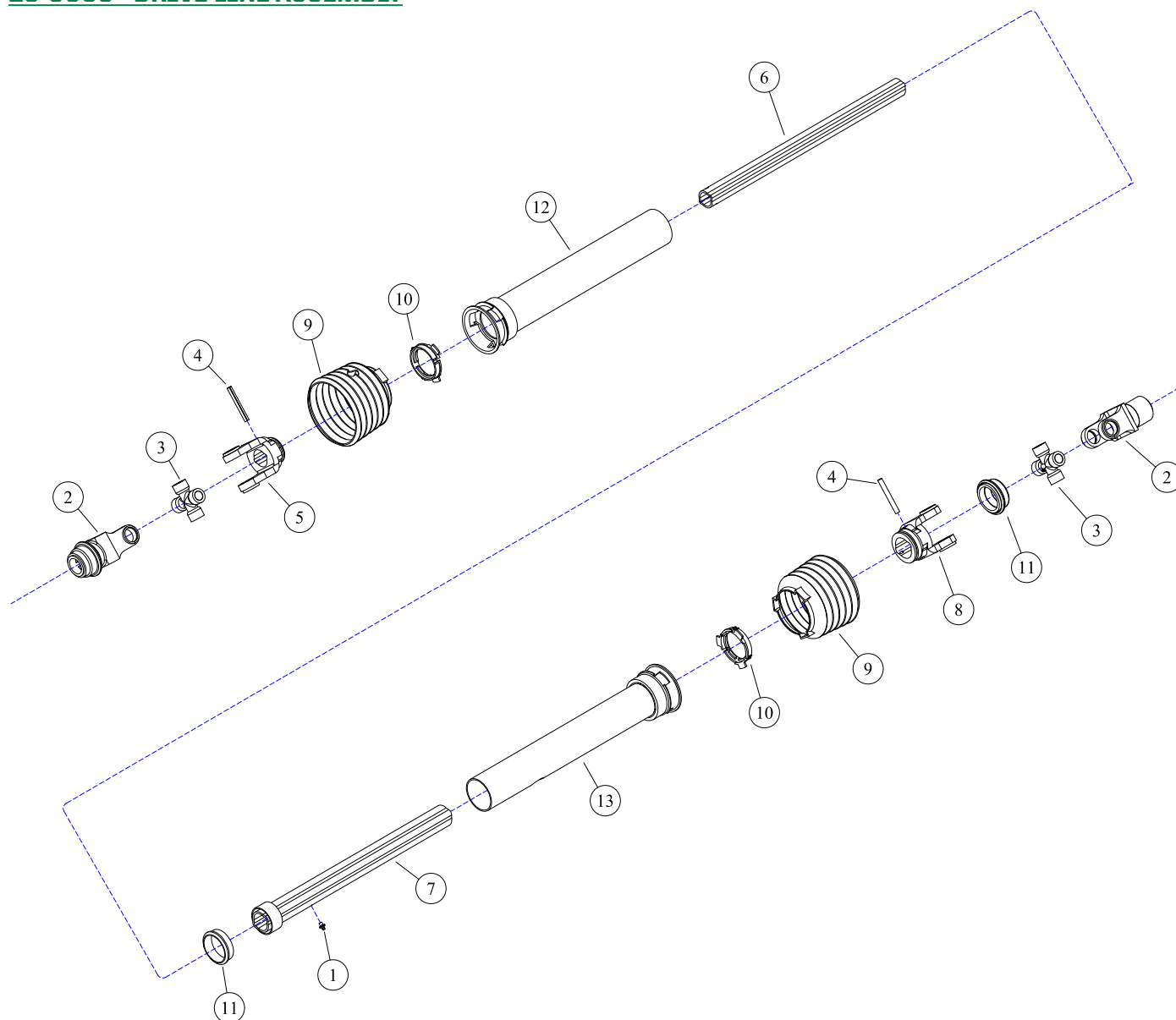
REF#	PARTS DESCRIPTION	REQ	PART #
1	BUSHING	4	30-1002
2	BALL BEARING	1	30-1044
3	WASHER	4	30-1071
4	SPIROLOCK	1	30-1094
5	RETAINING RING	1	30-1095
6	PLUG	1	30-1096
7	SHAFT END COVER	1	30-1097
8	CHECK ASSEMBLY	2	30-1098
9	THRUST PLATE	2	30-1100
10	DOWEL PIN	4	30-1102
11	PORT END COVER W/ BUSHINGS	1	30-1137
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

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

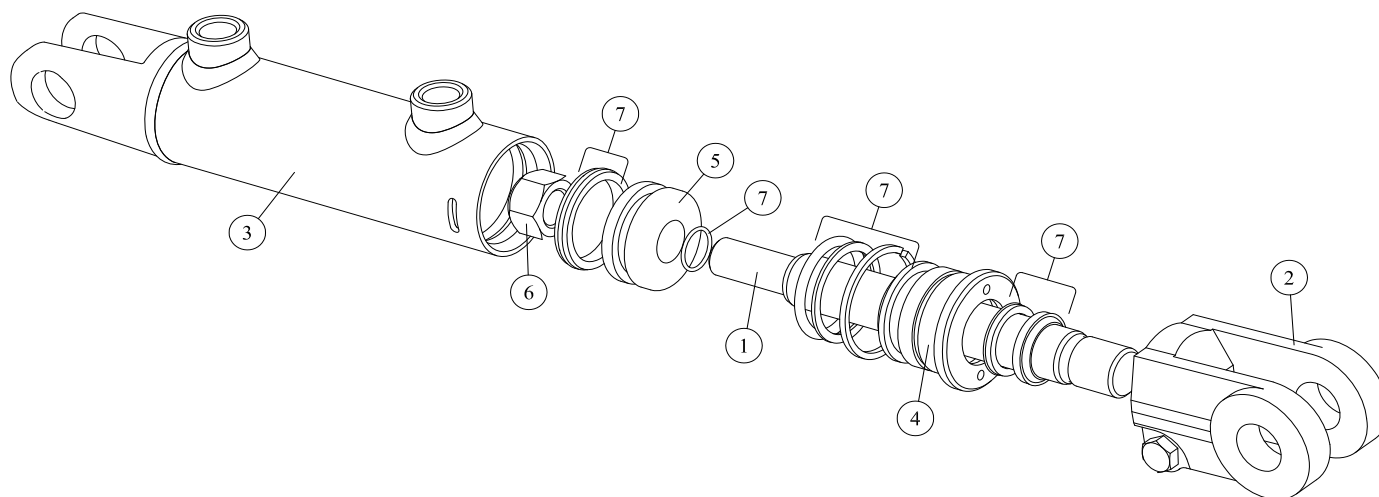
REF#	PARTS DESCRIPTION	REQ	PART #
11	SHAFT	1	19-0030
12	SPRING WASHER	1	19-0031
13	SHIM	1	19-0032
14	BEARING	1	19-0033
15	LOCK NUT	1	19-0034
16	PINION	1	19-0035
17	BEARING	1	19-0036
18	OIL SEAL	2	33-0007
19	DOUBLE LIP SEAL	1	33-0021

29-0003 - DRIVE LINE ASSEMBLY

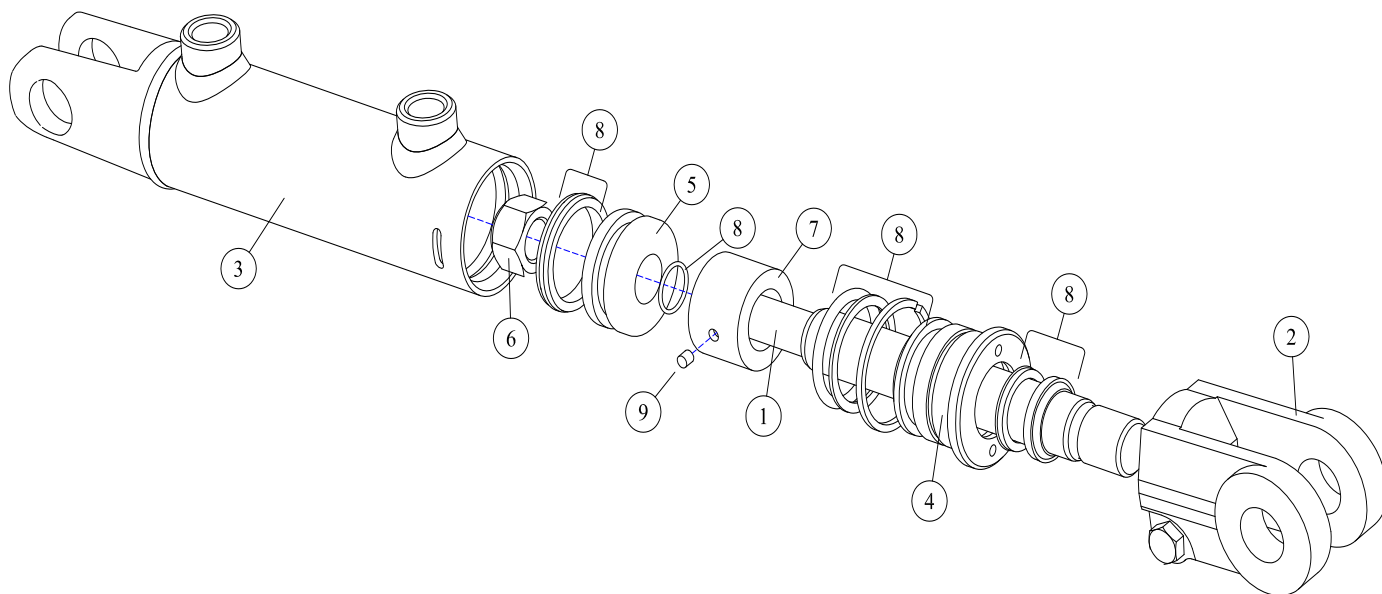
REF#	PARTS DESCRIPTION	REQ	PART #
1	ZERK	1	23-0004
2	YOKE 1-3/8" 6 SPLINE	2	29-0018
3	CROSS & BEARING KIT	2	29-0019
4	SPRING PIN	2	29-0020
5	INBOARD YOKE 1B	1	29-0021
6	INNER PROFILE	1	29-0022
7	PROFILE & SLEEVE	1	29-0023
8	INBOARD YOKE 2A	1	29-0024
9	SHIELD CONE	2	29-0025
10	BEARING RING	2	29-0026
11	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

LIFT ASSEMBLIES



14-0001 - 3X10 WELDED CYLINDER

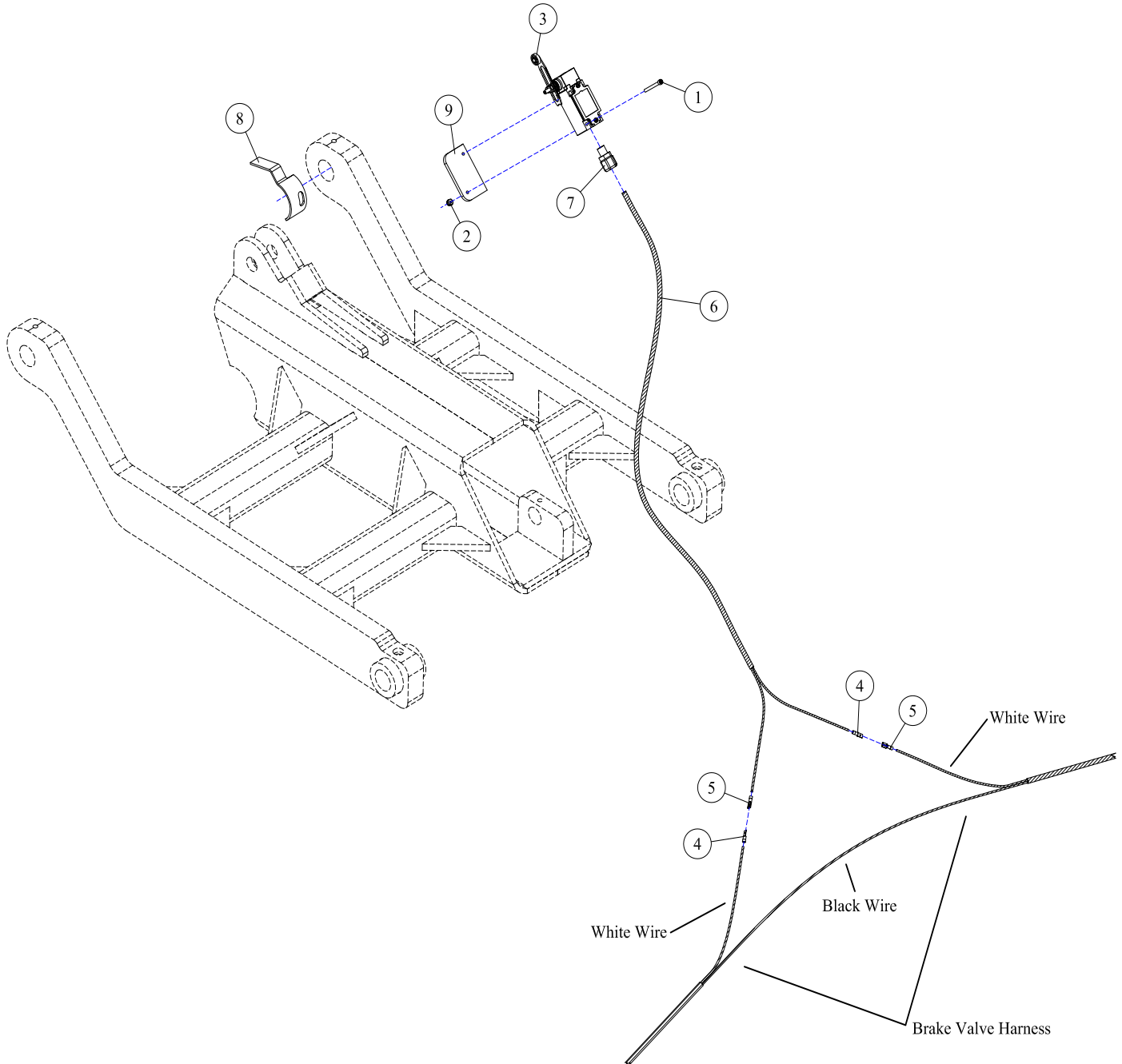
REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1130
2	CLEVIS ASSEMBLY	1	14-1160
3	BUTT & TUBE ASSEMBLY	1	14-1140
4	GLAND	1	14-1155
5	PISTON	1	14-1150
6	LOCKNUT	1	14-1120
7	SEAL KIT	1	33-0038

14-0004 - 3X12 WELDED CYLINDER, SLUGGED

REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1131
2	CLEVIS ASSEMBLY	1	14-1160
3	BUTT & TUBE ASSEMBLY	1	14-1141
4	GLAND	1	14-1155
5	PISTON	1	14-1150
6	LOCKNUT	1	14-1120
7	SLUG	1	14-1191
8	SEAL KIT	1	33-0038
9	SET SCREW	1	11-2007

ELECTRICAL ASSEMBLIES

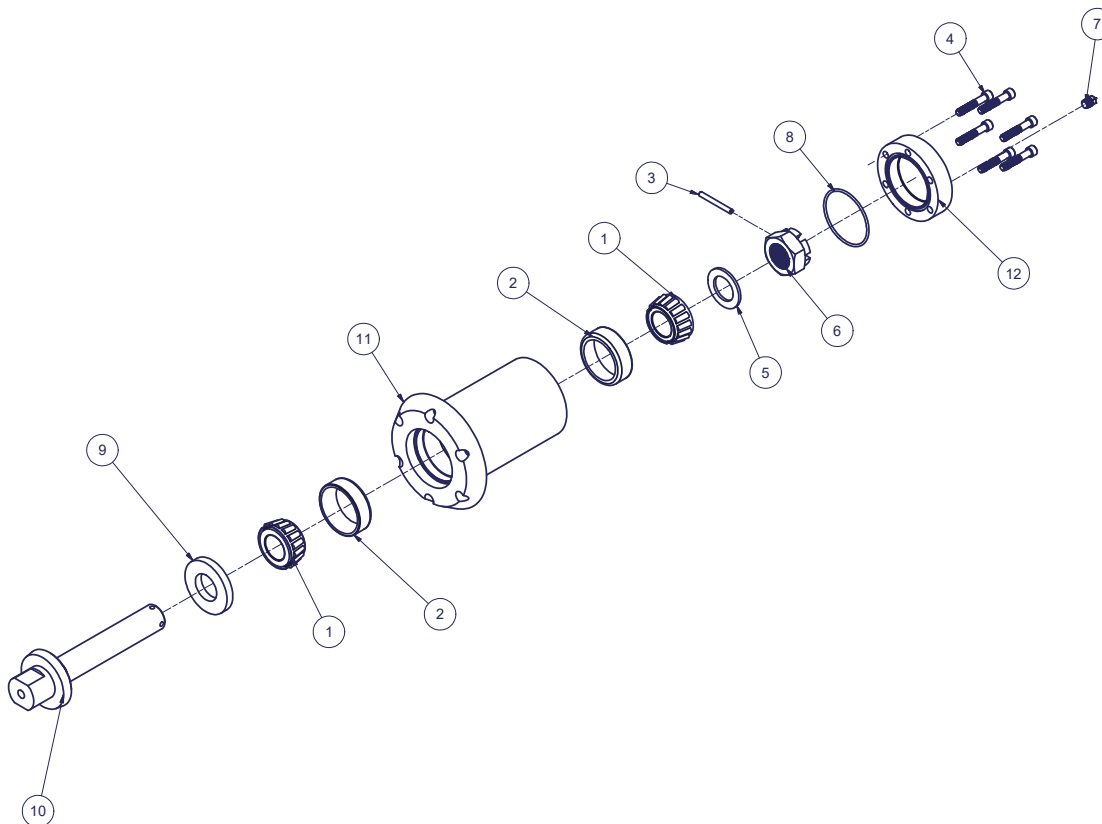


LIMIT SWITCH - DRAFT BEAM HEIGHT LIMITER

REF#	PARTS DESCRIPTION	REQ	PART #
1	#10 - 24 X 2 SHCS	2	11-0786
2	#10 - 24 NYLOCK NUT	2	11-1051
3	LIMIT SWITCH	1	16-0016
4	14-16GA MALE PUSH-ON CONNECTOR	2	16-0040
5	14-16GA FEMALE PUSH-ON CONNECTOR	2	16-0041
6	14/2 PRIMARY WIRE	Avail/ft	16-0042
7	3/8 CONDUIT STRAIN RELIEF	1	16-0043
8	<u>CAM TILT BRACKET</u>		
	LEFT	1	24-0039
	RIGHT	1	24-0040
9	LIMIT SWITCH PLATE	1	31-0023

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		

10-1067 oil bath replacement bearing assy Rev 000



**100% SATISFACTION
GUARANTEE**
★ GET IT, LOVE IT, *or* LEAVE IT! ★

**72-HOUR PARTS
SHIPPING GUARANTEE**