



PARTS BOOK

ROTARY HEADS

• 50" • BOOM MOUNT • SERIAL #XXXXX+ •

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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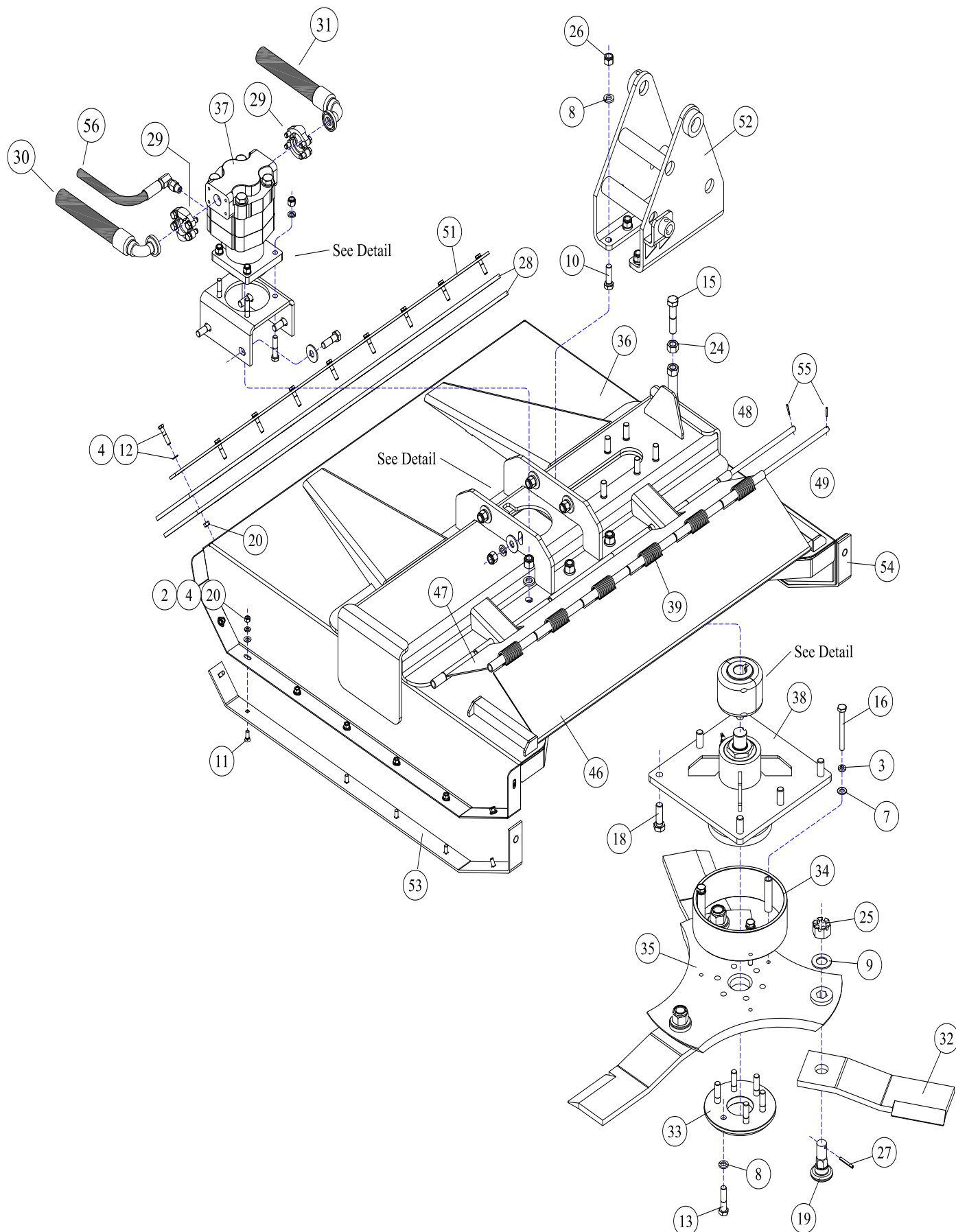
Table of Contents

ROTARY HEADS	4
BOOM ROTARY HEAD - 50" INDIRECT DRIVE.....	5
ROTARY HEAD - 50" DECK, DECAL IDENTIFICATION.....	6
BOOM ROTARY HEAD - 50" BLADE CONFIGURATIONS.....	8
SAW BLADE ATTACHMENT (OPTIONAL) - BOOM ROTARY HEADS 50".....	10
HYDRAULIC TRAPDOOR (OPTIONAL) - BOOM ROTARY HEADS 50".....	11
DECK ASSEMBLIES	12
30-0508 - MOTOR ASSEMBLY.....	13
35-0010 - INDIRECT DRIVE SPINDLE.....	14
LIFT ASSEMBLIES	15
14-0010 - 2X8 TIE-ROD CYLINDER.....	16

ROTARY HEADS

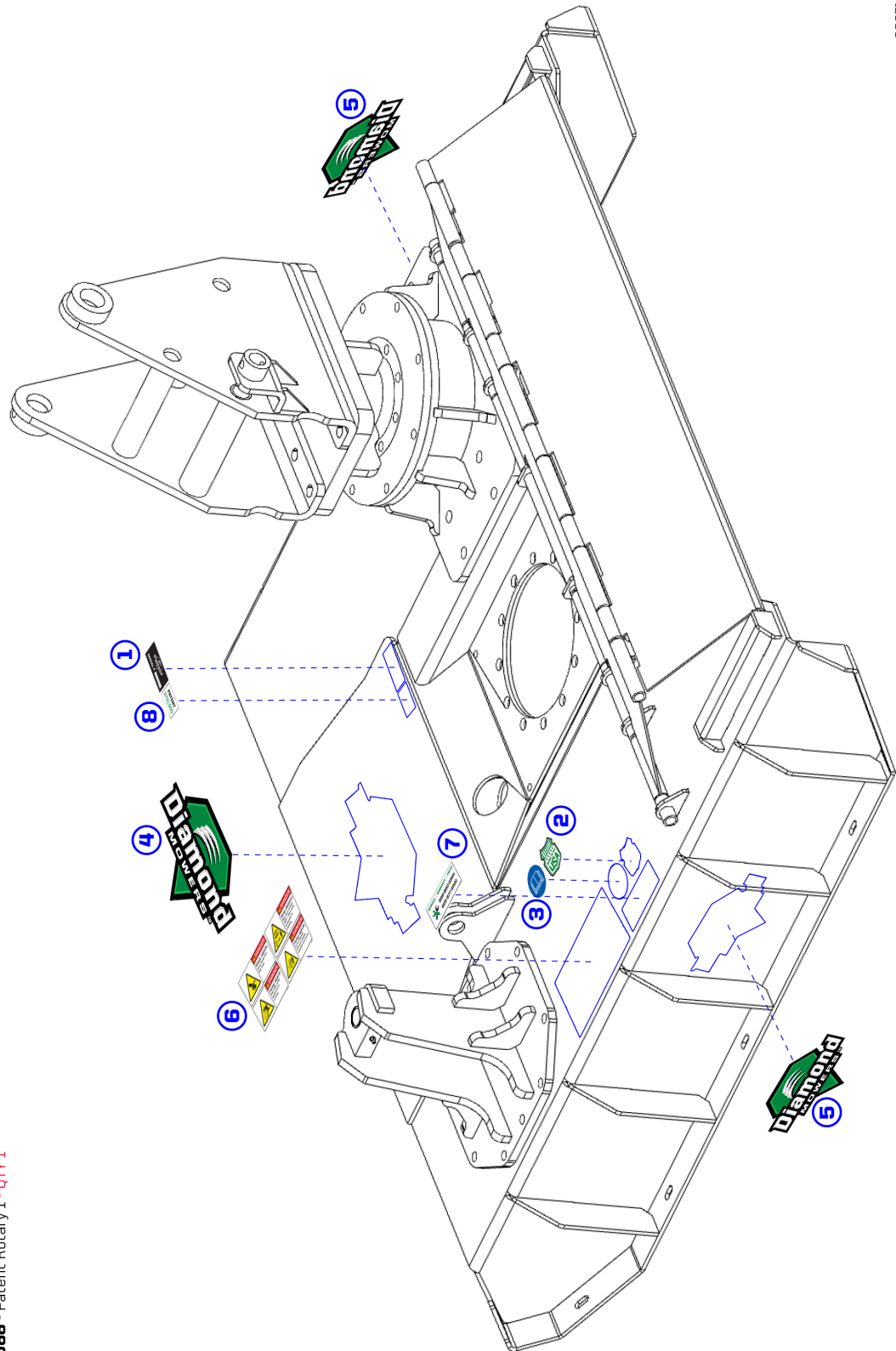


BOOM ROTARY HEAD - 50" INDIRECT DRIVE



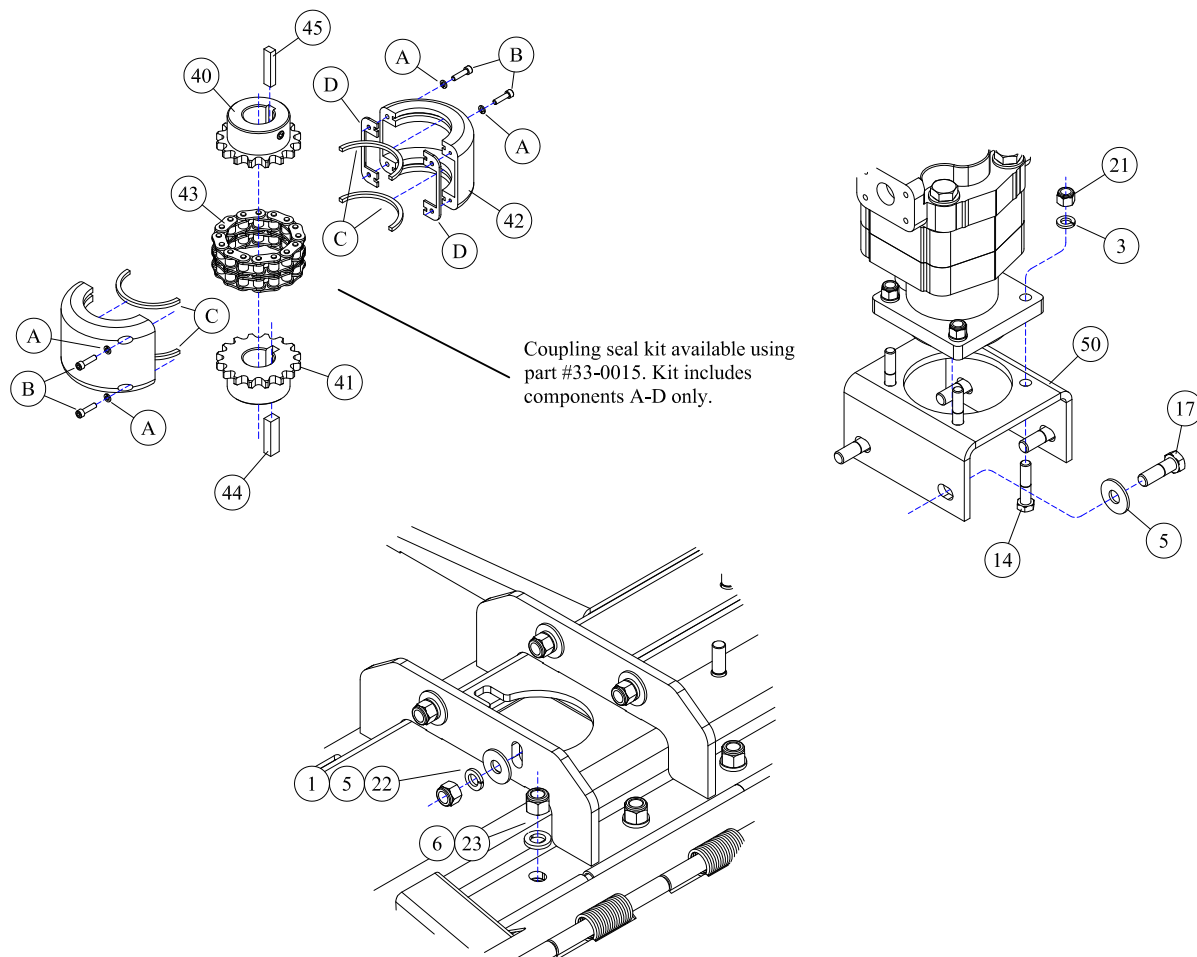
ROTARY HEAD - 50" DECK, DECAL IDENTIFICATION

080718



- ① SERIAL NUMBER LABEL - (not included in kit) - QTY 1
- ② PART #15-0055 - Made In USA - QTY 1
- ③ PART #15-0058 - Read Manual - QTY 1
- ④ PART #15-0053 - Diamond Mowers Logo 13" - QTY 1
- ⑤ PART #15-0050 - Diamond Mowers Logo 7" - QTY 2
- ⑥ PART #15-0057 - Decal Group Horizontal - QTY 1
- ⑦ PART #15-1016 - Warranty - QTY 1
- ⑧ PART #15-0066 - Patent Rotary 1 - QTY 1

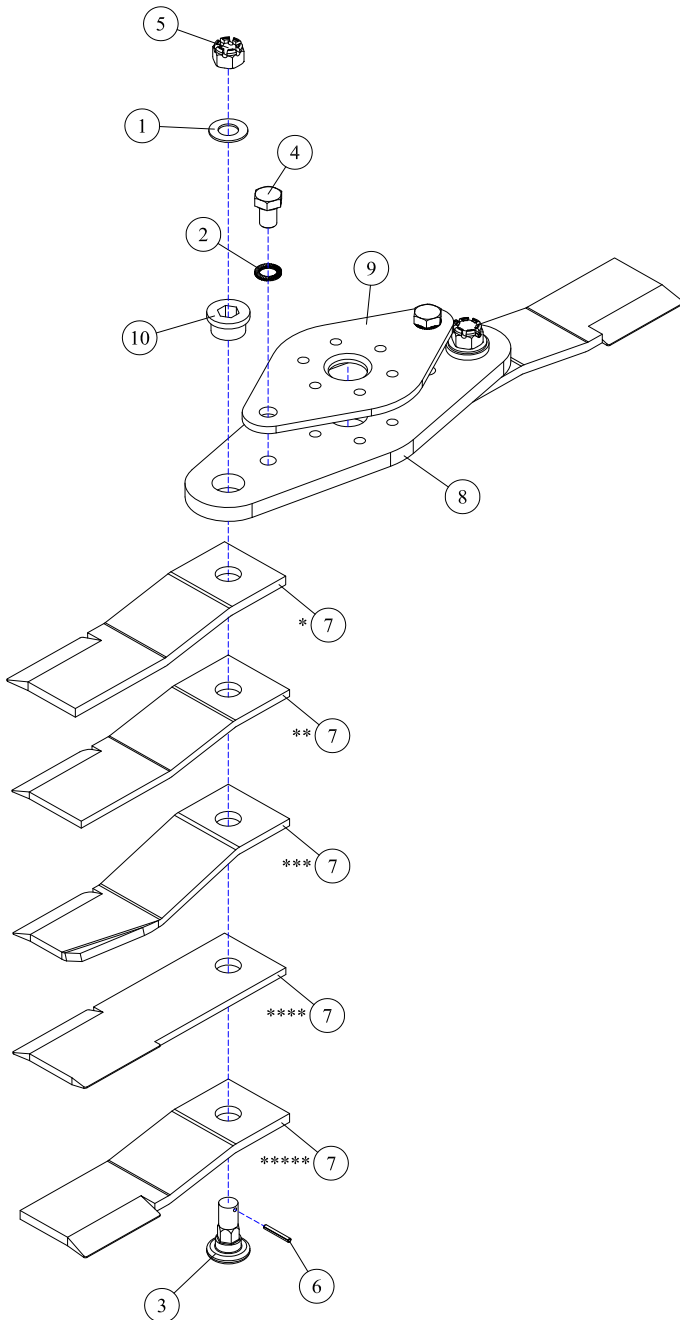
BOOM ROTARY HEAD - 50" INDIRECT DRIVE



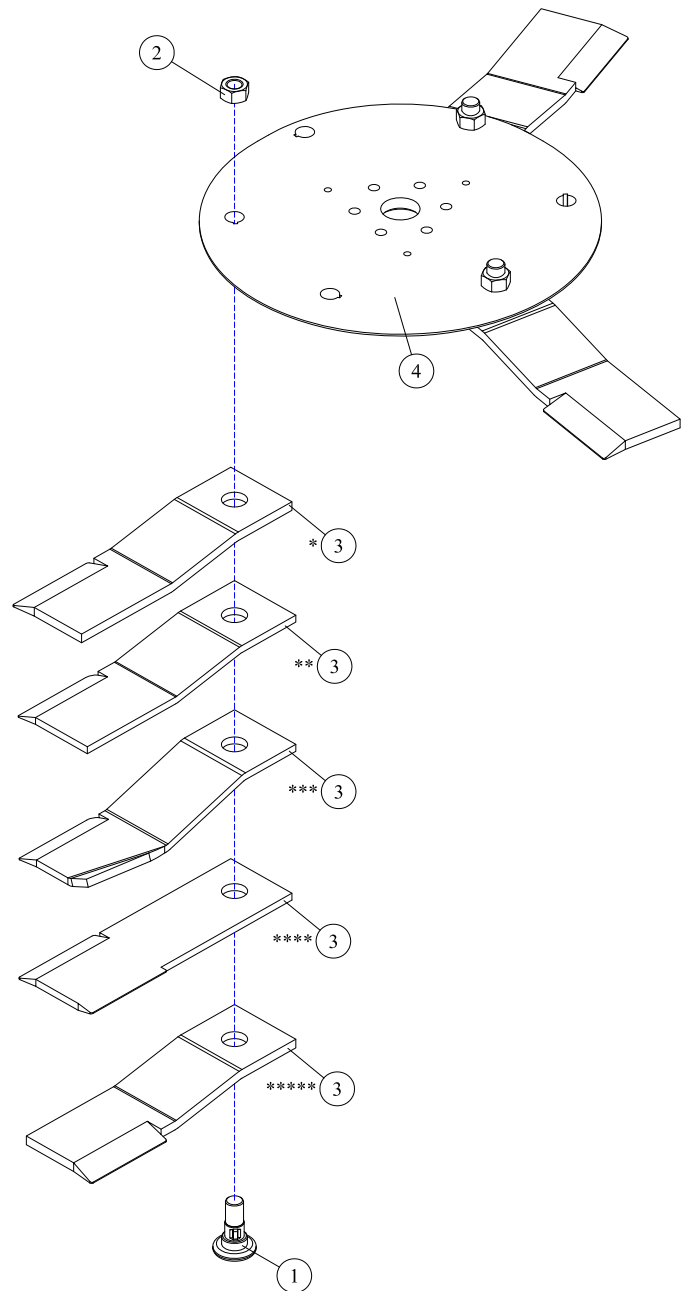
REF#	PARTS DESCRIPTION	REQ	PART #
1	5/8 LOCK WASHER	4	11-0004
2	3/8 LOCK WASHER	16	11-0005
3	1/2 LOCK WASHER	7	11-0011
4	5/16 FLAT WASHER	25	11-0015
5	5/8 FLAT WASHER	8	11-0025
6	3/4 H.S. LOCK WASHER	6	11-0040
7	1/2 H.S. FLAT WASHER	5	11-0042
8	5/8 H.S. LOCK WASHER	14	11-0043
9	1-1/8 SAE H.S. FLAT WASHER	3	11-0057
10	5/8 X 2 H.S. NF HEX CAPSCREW	8	11-0508
11	PLOW BOLT	16	11-0804
12	3/8 X 1-3/4 NC HEX CAPSCREW	9	11-0521
13	5/8 X 2-1/4 H.S. NF HEX CAPSCREW	6	11-0691
14	1/2 X 2-1/4 NC HEX CAPSCREW	4	11-0531
15	3/4 X 4 NC HEX CAPSCREW	1	11-0557
16	1/2 X 4-1/2 NC HEX CAPSCREW	3	11-0553
17	5/8 X 2-1/4 NC HEX CAPSCREW	4	11-0631
18	3/4 X 2-1/4 NF H.S. HEX CAPSCREW	6	11-0658
19	BLADE BOLT - HEX BASE	3	11-0759
20	3/8 NC HEX NUT	25	11-1001
21	1/2 NC NYLOCK NUT	4	11-1018
22	5/8 NC NYLOCK NUT	4	11-1025
23	3/4 NF H.S. STOVER NUT	6	11-1032
24	3/4 NC HEX NUT	1	11-1033
25	1-1/8 H.S. NF SLOTTED HEX NUT	3	11-1050
26	5/8 H.S. NF STOVER NUT	8	11-1143
27	1/4 X 2 ROLL PIN	3	11-2005
28	FLAP	2	18-0015
29	#20 FLANGE KIT	2	21-2105

REF#	PARTS DESCRIPTION	REQ	PART #
30	HOSE 1 X 65 (1FJIC X #20FLG-90DEG)	1	21-2516
31	HOSE 1 X 57 (1FJIC X #20FLG-90DEG)	1	21-2517
32	5/8" BRUSH BLADE	3	22-0006
33	BOLT PROTECTOR	1	24-0004
34	SEAL PROTECTOR	1	24-0007
35	50" TRI-HEX DISH	1	24-0085
36	50" DECK SHELL	1	25-0004
37	MOTOR 365" 1-1/2" GEARS, KEYED SHAFT	1	30-0508
38	SPINDLE ASSEMBLY	1	35-0010
39	TORSION SPRING	6	36-0003
40	SPROCKET, MOTOR	1	37-0001
41	SPROCKET, SPINDLE	1	37-0003
42	COUPLING COVER W/ SEAL KIT	1	37-0004
43	CHAIN COUPLING	1	37-0006
44	SPINDLE KEY	1	37-0009
45	MOTOR KEY	1	37-0010
46	FRONT SHIELD	1	41-0007
47	REAR SHIELD	1	41-0008
48	TRAP DOOR ROD, REAR	1	41-0009
49	TRAP DOOR ROD, FRONT	1	41-0010
50	MOTOR BRACKET	1	41-0015
51	FLAP RETAINING BAR	1	41-0030
52	MAST	1	41-0195
53	RIGHT SKID SHOE	1	42-0007
54	LEFT SKID SHOE	1	42-0008
55	5/32 X 1 ROLL PIN	4	11-2054
56	HOSE 1/4 X 62 (14/MORB-90DEG X 5/16MJIC)	1	21-2498
57	BLADE KIT (Includes 9, 19, 25, 27, & 32)	1	44-0228

BOOM ROTARY HEAD - 50" BLADE CONFIGURATIONS

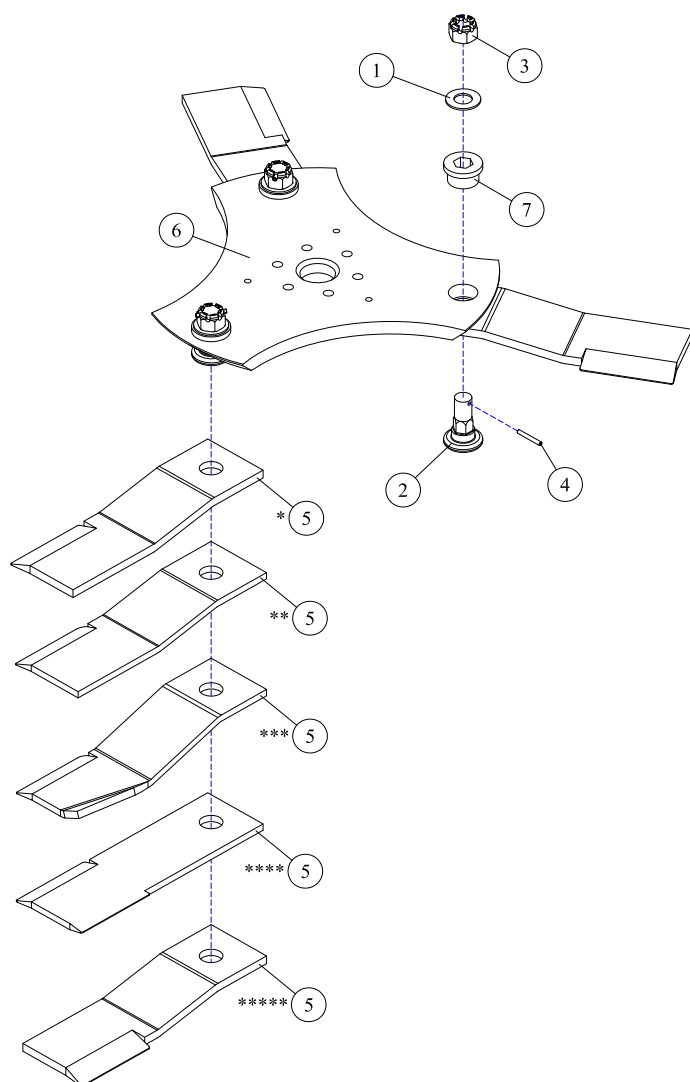


REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S. FLAT WASHER	2	11-0057
2	1" NORDLOCK WASHER	2	11-0059
3	BLADE MOUNTING BOLT	2	11-0759
4	1 X 1-1/2 NF H.S. HEX CAP	2	11-0772
5	BLADE MOUNTING NUT	2	11-1050
6	1/4 X 2 ROLLPIN	2	11-2005
7	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE - REVERSE ROTATION - 5/8"	3	22-0017
8	BLADE BAR, BOTTOM	1	24-0097
9	BLADE BAR, TOP	1	31-0097
10	REPLACEABLE HEX INSERT	Avail	90-7010

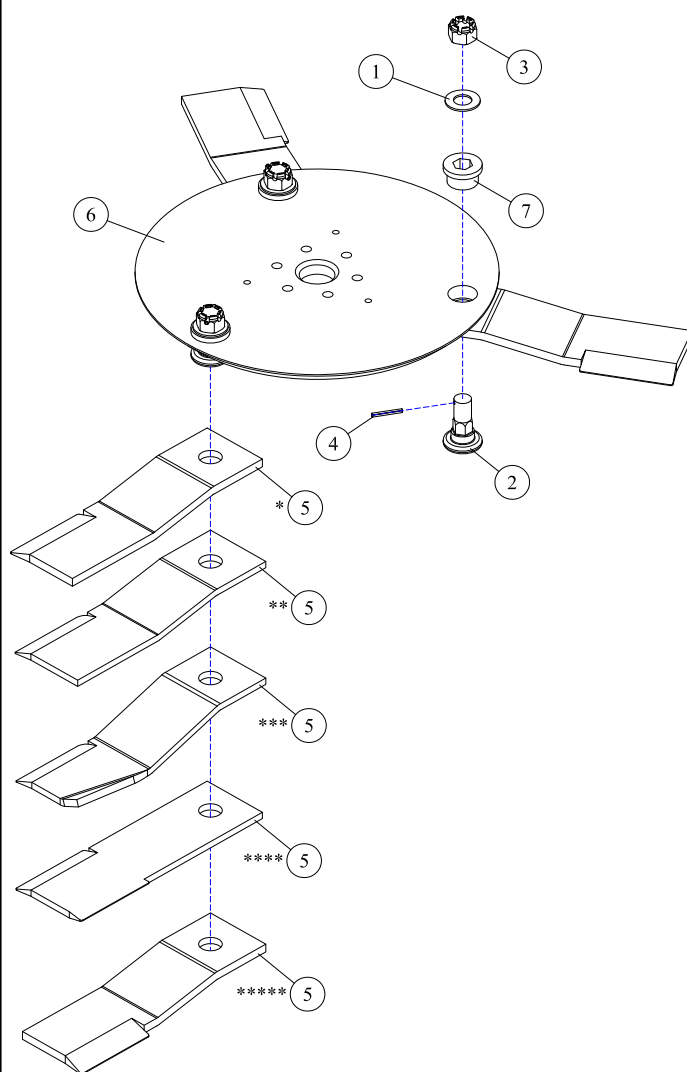


REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE BOLT - 1-1/8 KEYED	3	11-0503
2	1-1/8 NF NYLOCK NUT	3	11-1008
3	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE - REVERSE ROTATION - 5/8"	3	22-0017
4	BLADE DISH	1	24-0002

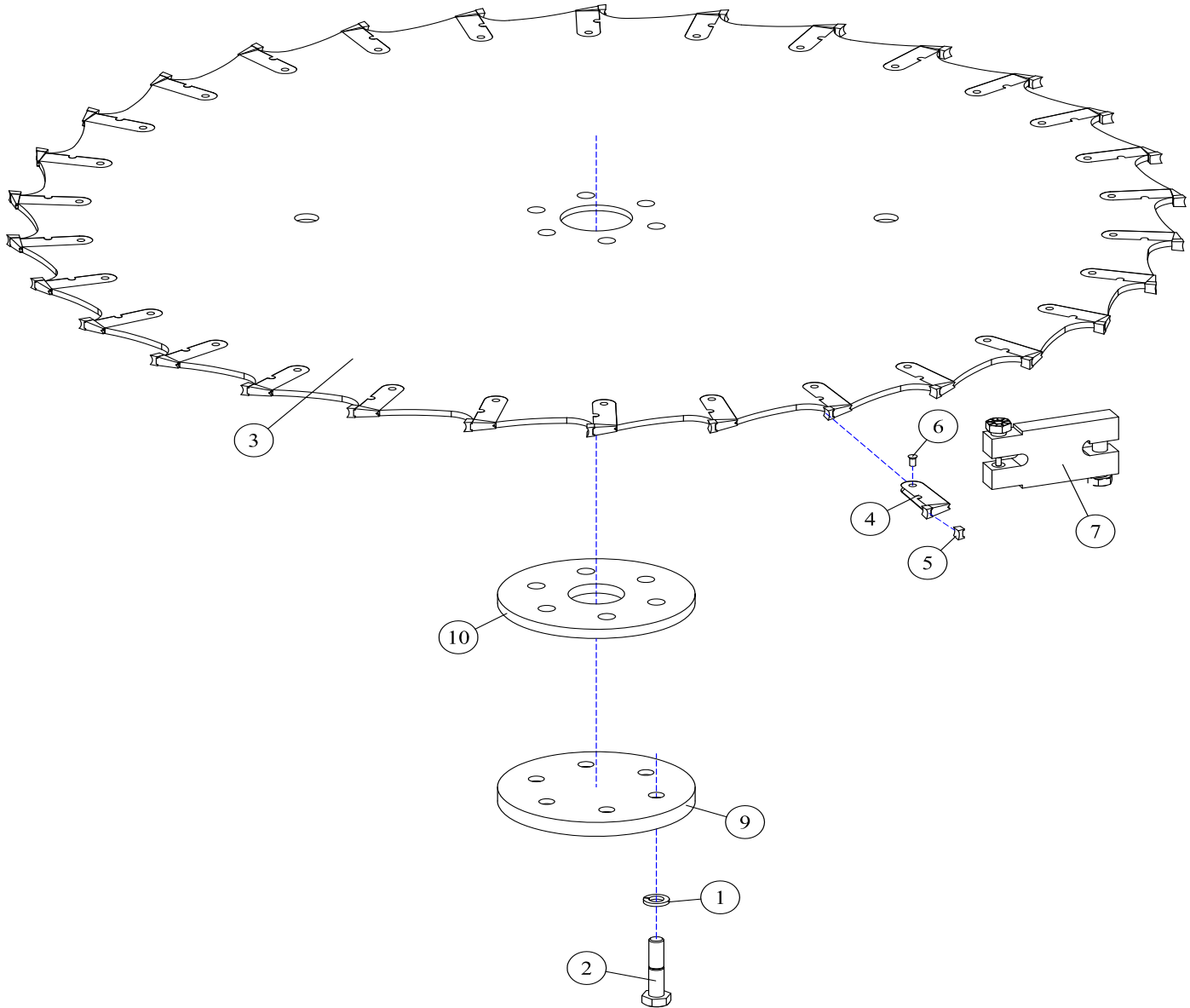
BOOM ROTARY HEAD - 50" BLADE CONFIGURATIONS



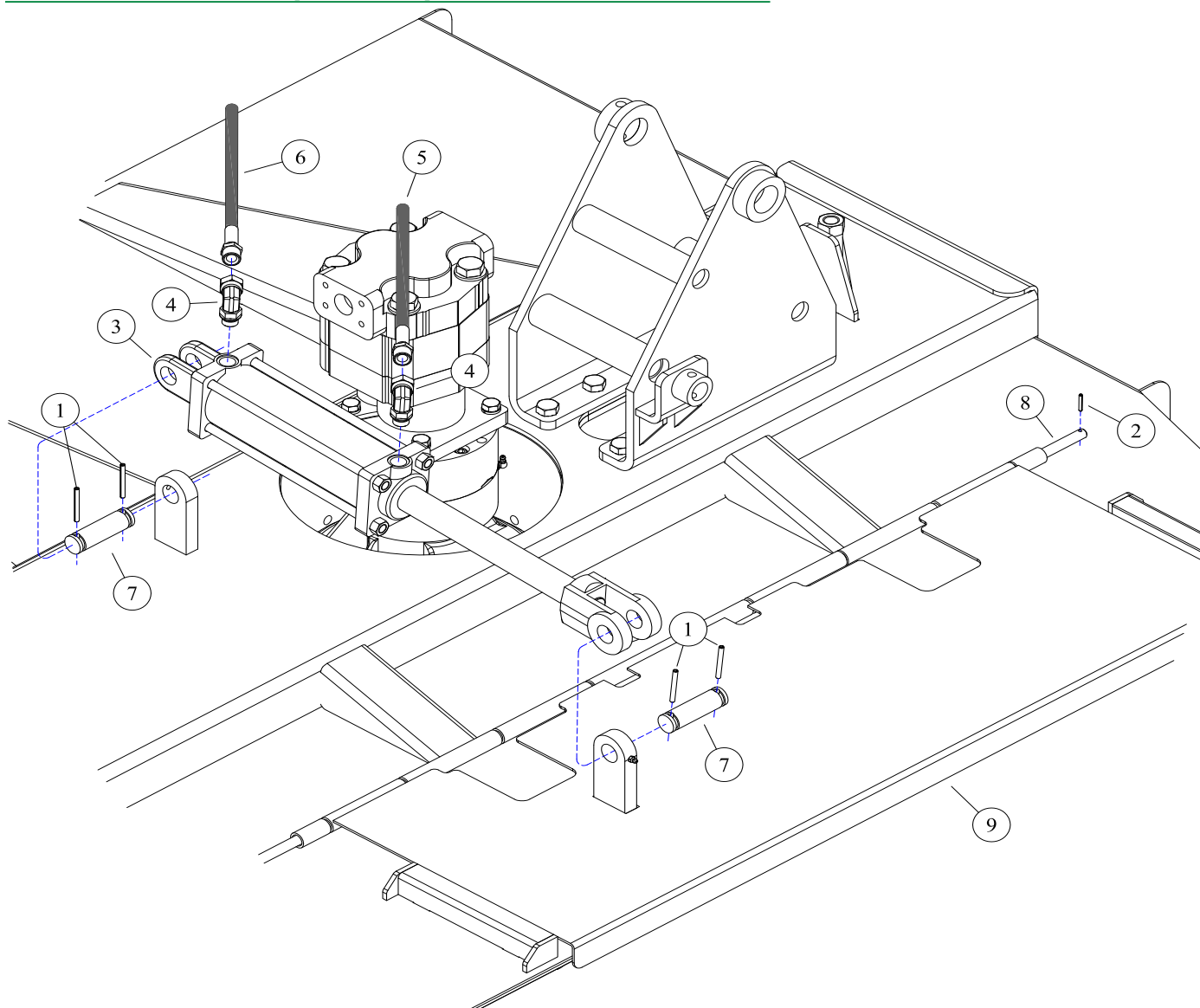
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE - REVERSE ROTATION - 5/8"	3	22-0017
6	D3 50" TRI-HEX DISH	1	24-0085
7	REPLACEABLE HEX INSERT	Avail	90-7010



REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE - REVERSE ROTATION - 5/8"	3	22-0017
6	D3 50" ROUND DISH	1	24-0100
7	REPLACEABLE HEX INSERT	Avail	90-7010

SAW BLADE ATTACHMENT (OPTIONAL) - BOOM ROTARY HEADS 50"

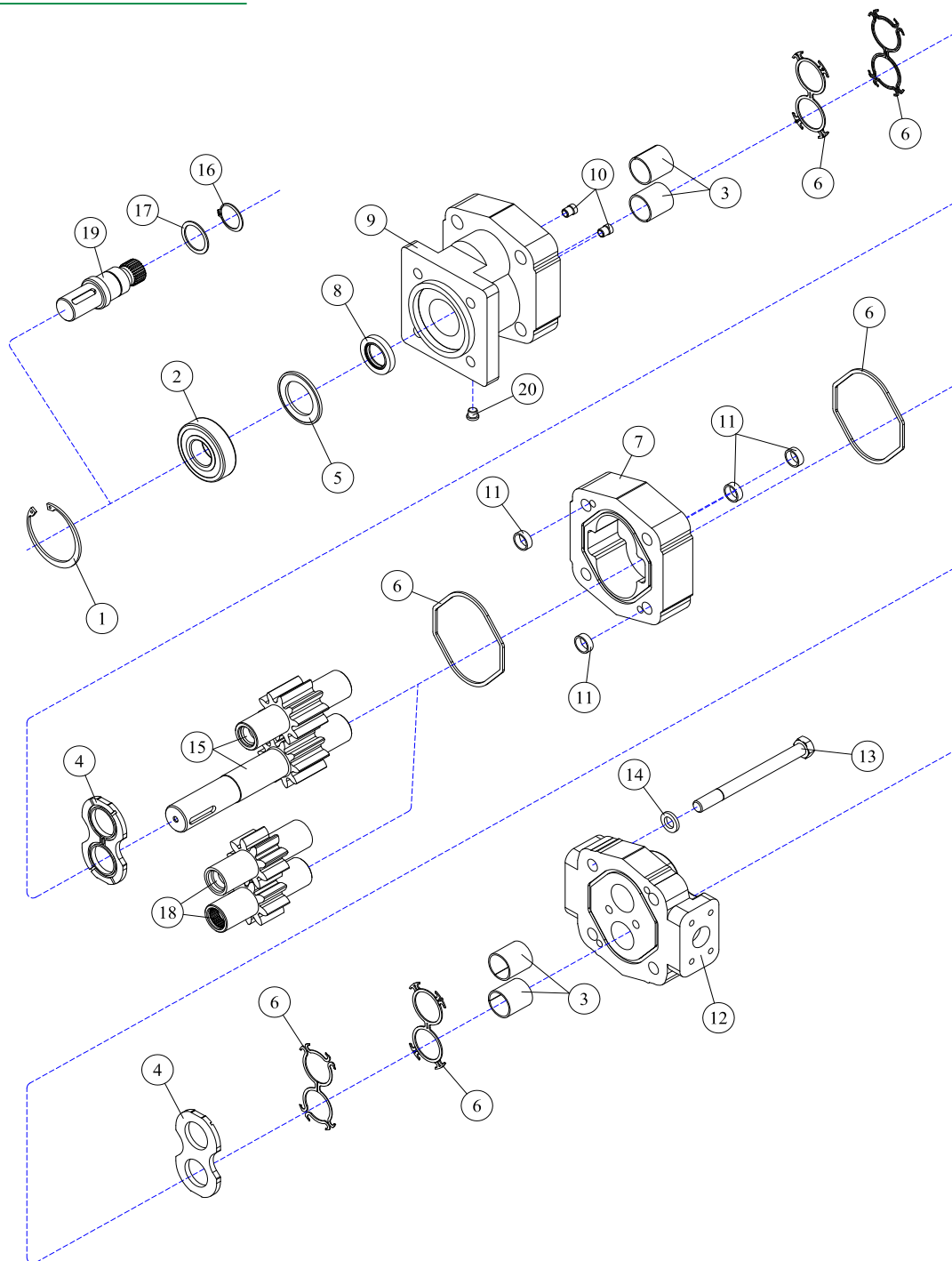
REF#	PARTS DESCRIPTION	REQ	PART #
1	5/8 H.S. LOCK WASHER	6	11-0043
2	5/8 X 2 NF H.S. CAPSCREW	6	11-0508
3	48" SAW BLADE	1	22-3001
4	CARBIDE TIP HOLDER	30	22-3002
5	CARBIDE REPLACEMENT TIP	30	22-3004
6	RIVET	30	22-3005
7	RIVET REMOVAL TOOL	Avail	22-3006
8	SHARPENING TOOL (NOT SHOWN)	Avail	22-3007
9	BOLT PROTECTOR	1	24-0004
10	BOLT PROTECTOR SPACER	1	24-0215

HYDRAULIC TRAPDOOR (OPTIONAL) - BOOM ROTARY HEADS 50"

REF#	PARTS DESCRIPTION	REQ	PART #
1	1/4 X 2 ROLL PIN	4	11-2005
2	5/32 X 1 ROLL PIN	2	11-2054
3	2 X 8 CYLINDER	1	14-0010
4	1/2ADJ-OR X 1/2FPX-90DEG, FITTING	2	21-1119
5	HOSE 1/4 X 77 (1/2MP X 5/16MJIC)	1	21-2307
6	HOSE 1/4 X 66 (1/2MP X 5/16MJIC)	1	21-2405
7	CLEVIS PIN, 1 X 3-1/2	2	27-0004
8	TRAP DOOR ROD, REAR	1	41-0009
9	HYDRAULIC SHIELD	1	41-0222

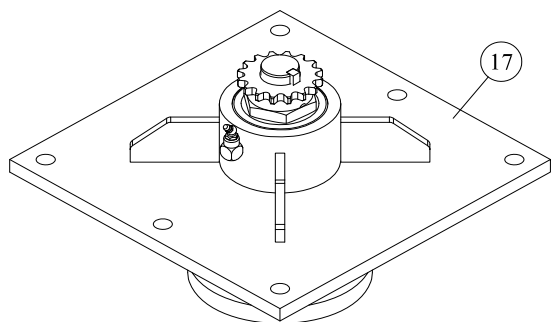
DECK ASSEMBLIES



30-0508 - MOTOR ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART #
1	SNAP RING	1	30-1009
2	OUTBOARD BEARING	1	30-1010
3	BUSHING	4	30-1011
4	THRUST PLATE	2	30-1012
5	SEAL RETAINER	1	30-1017
6	M365 SEAL KIT	Avail	30-1021
7	GEAR HOUSING	1	30-1023
8	SHAFT SEAL		
	150 PSI (included in M365 seal kit)	1	30-1210
	500 PSI	1	30-1156
9	SHAFT END COVER	1	30-1086
10	CHECK ASSEMBLY	2	30-1087
11	ALIGNMENT BUSHING	4	30-1090

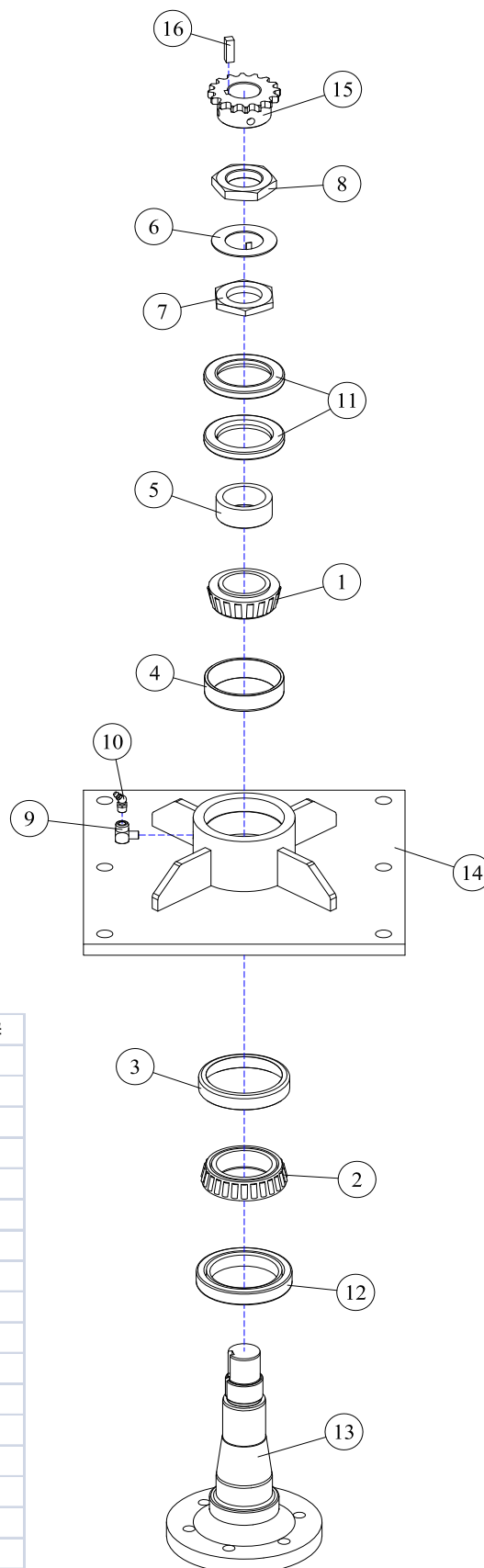
REF#	PARTS DESCRIPTION	REQ	PART #
12	PORT END COVER	1	30-1091
13	STUD	4	30-1092
14	WASHER	4	30-1093
	GEAR SET OPTION A:		
15	1-1/2" GEAR SET	1	30-1169
	GEAR SET OPTION B:		
16	RETAINING RING	1	30-1019
17	WASHER	1	30-1020
18	1-1/2" GEAR SET	1	30-1022
19	CONTINENTAL SHAFT, KEYED	1	30-1018
20	PLUG	1	30-1096
*	SEAL APPLICATOR TOOL (not shown)	Avail	30-1048

35-0010 - INDIRECT DRIVE SPINDLE

* Complete spindle assemblies also available.
Diamond Part #35-0010

**Do not use #2 heavy-duty grease on spindle assembly. Use Diamond spindle grease parts #23-0001

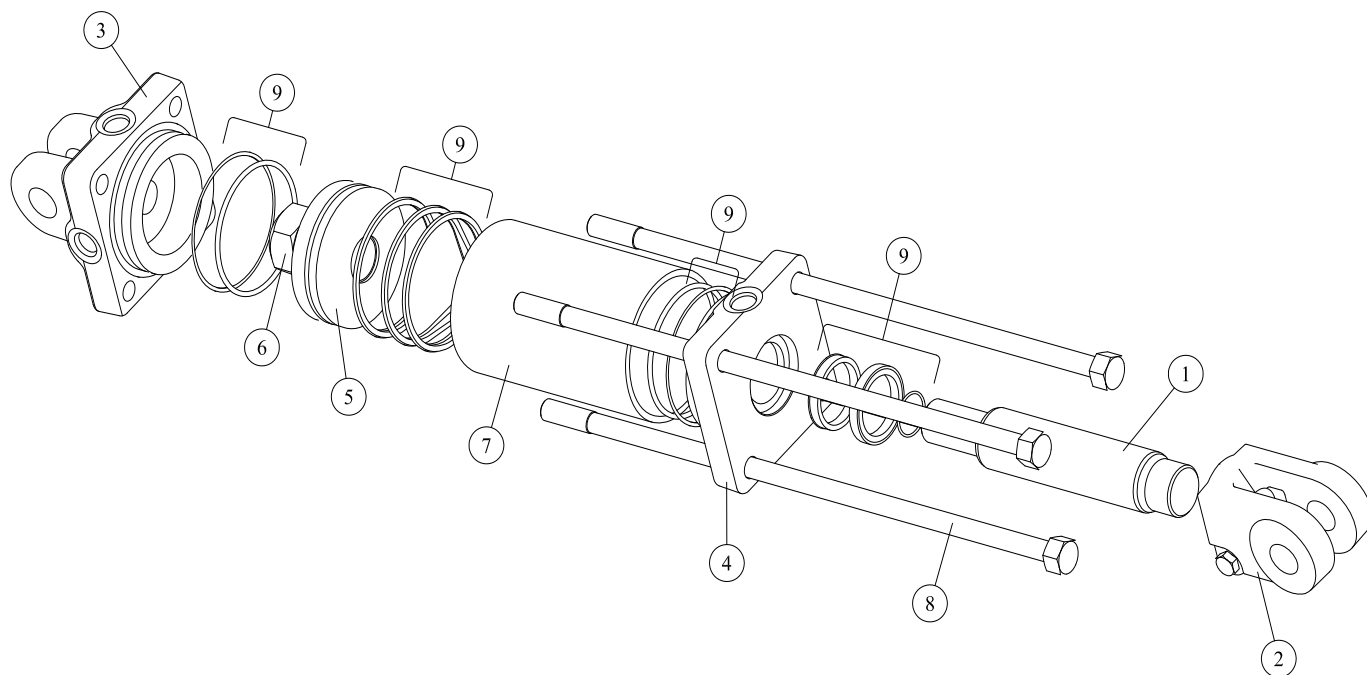
***Complete spindle repair kits available.
These kits include 10-0003, 10-0004, 10-0008, 10-0014, 10-1002, 11-0002, 11-1009, 11-1010, 33-0001, 33-0003 & 37-0009. These can be purchased using part #44-0001



REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING CONE	1	10-0003
2	BEARING CONE	1	10-0004
3	BEARING CUP	1	10-0008
4	BEARING CUP	1	10-0014
5	BEARING ADJUSTMENT SLEEVE	1	10-1002
6	JAM WASHER	1	11-0002
7	ADJUSTMENT BEARING NUT	1	11-1009
8	ADJUSTMENT BEARING NUT	1	11-1010
9	1/8 X 90DEG ELBOW	1	21-1104
10	1/8" X 45 GREASE ZERK	1	23-0002
11	UPPER SEAL SET	1	33-0001
12	LOWER SEAL	1	33-0003
13	SPINDLE	1	35-0009
14	SPINDLE HOUSING	1	35-0012
15	SPROCKET	1	37-0003
16	SPINDLE KEY	1	37-0009
17*	SPINDLE ASSY COMPLETE	Avail	35-0010
18**	DIAMOND SPINDLE GREASE	Avail	23-0001
19***	SPINDLE REPAIR KIT	Avail	44-0001

LIFT ASSEMBLIES



14-0010 - 2X8 TIE-ROD CYLINDER

REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1066
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	14-1172
8	TIE-ROD ASSEMBLY	4	14-1069
9	SEAL KIT	1	33-0025

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