



PARTS BOOK

ROTARY HEADS

• 60" • BOOM MOUNT • SERIAL #XXXXX+ •

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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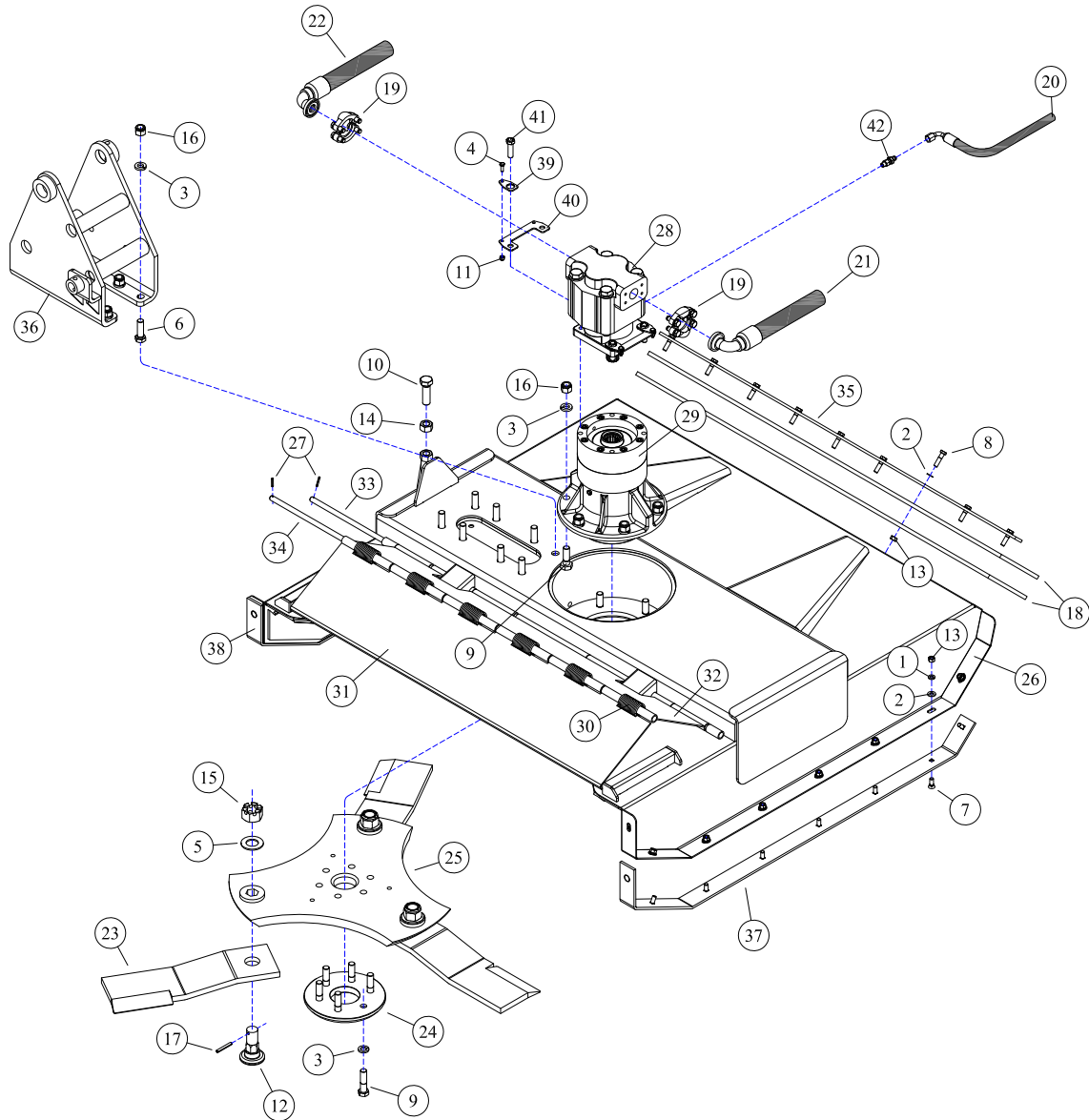


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ROTARY HEADS



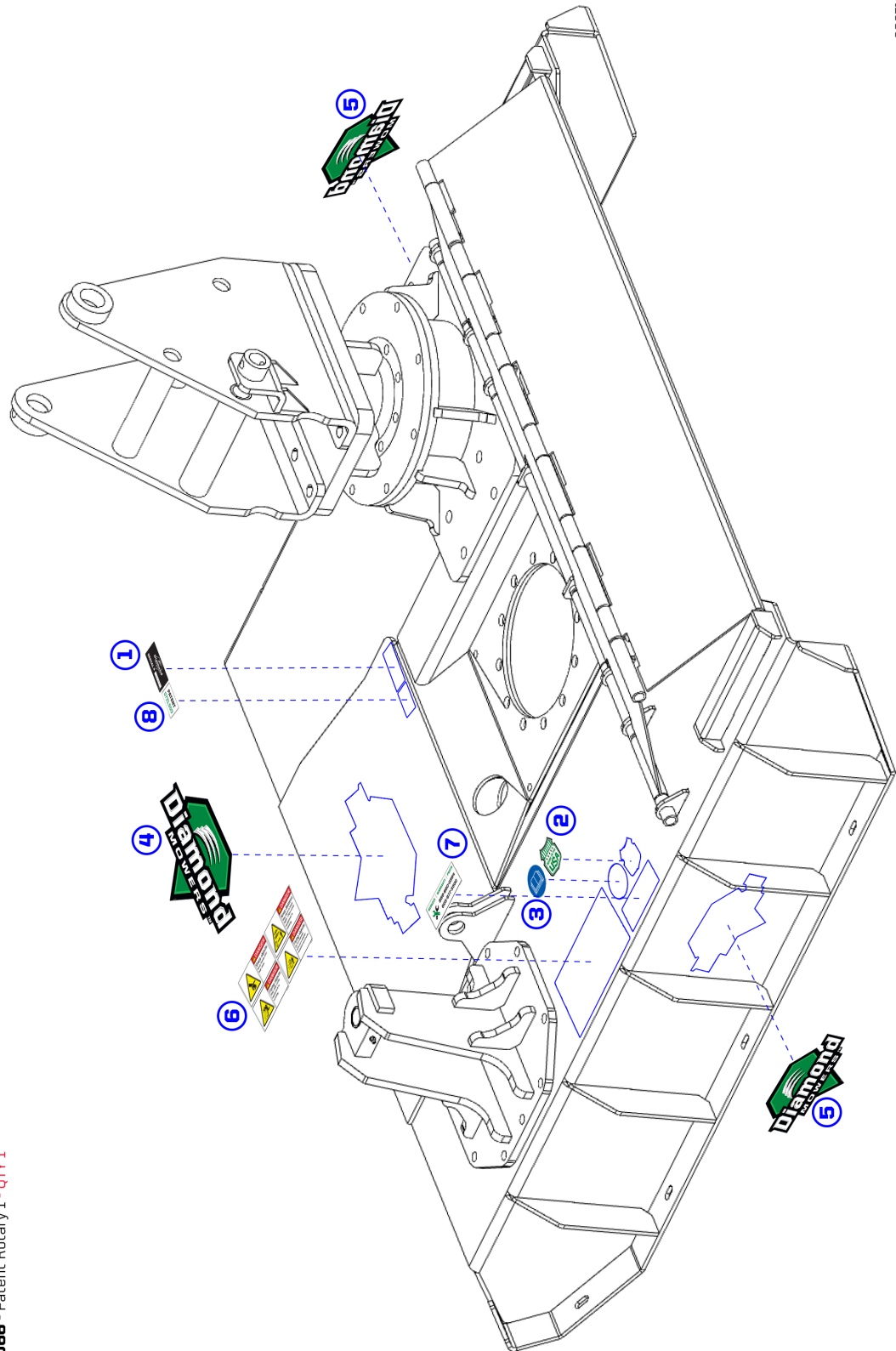
BOOM ROTARY HEAD - 60" DIRECT DRIVE, ROTATING DECK, LEFT MOUNT

REF#	PARTS DESCRIPTION	REQ	PART #
1	3/8 LOCK WASHER	18	11-0005
2	5/16 FLAT WASHER	25	11-0015
3	5/8 H.S. LOCK WASHER	20	11-0043
4	1/4 X 3/4 NC HEX CAP	4	11-0588
5	1-1/8 SAE H.S. FLAT WASHER	3	11-0057
6	5/8 X 2 H.S. NF HEX CAPSCREW	8	11-0508
7	PLOW BOLT	16	11-0804
8	3/8 X 1-3/4 NC HEX CAPSCREW	9	11-0521
9	5/8 X 2-1/4 NF H.S. HEX CAPSCREW	12	11-0691
10	3/4 X 4 NC HEX CAPSCREW	1	11-0557
11	1/4 NC NYLOCK NUT	4	11-1022
12	BLADE BOLT - HEX BASE	3	11-0759
13	3/8 NC HEX NUT	25	11-1001
14	3/4 NC HEX NUT	1	11-1033
15	1-1/8 H.S. NF SLOTTED HEX NUT	3	11-1050
16	5/8 H.S. NF STOVER NUT	14	11-1143
17	1/4 X 2 ROLLPIN	3	11-2005
18	FLAP	2	18-0015
19	#20 FLANGE KIT	2	21-2105
20	HOSE 3/8 X 62 (3/8FJIC-90DEG X 1/2MJIC)	1	21-4304
21	HOSE 1 X 65 (1FJIC X #20FLG-90DEG)	1	21-2516
22	HOSE 1 X 57 (1FJIC X #20FLG-90DEG)	1	21-2517

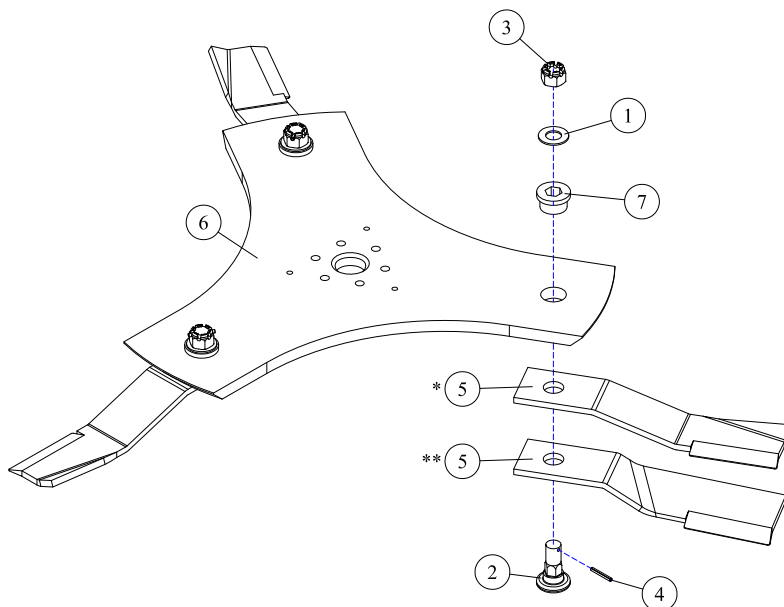
REF#	PARTS DESCRIPTION	REQ	PART #
23	5/8" BRUSH BLADE, REVERSE	3	22-0017
24	BOLT PROTECTOR	1	24-0004
25	50" TRI-HEX DISH	1	24-0085
26	50" DECK SHELL	1	25-0148
27	5/32 X 1 ROLL PIN	4	11-2054
28	MOTOR 365" 1-1/2" GEARS, SPLINE SHAFT (Excluding wheel loader-powered booms.)	1	30-0515
29	SPINDLE ASSEMBLY	1	35-0088
30	TORSION SPRING	6	36-0003
31	FRONT SHIELD	1	41-0007
32	REAR SHIELD	1	41-0008
33	TRAP DOOR ROD, REAR	1	41-0009
34	TRAP DOOR ROD, FRONT	1	41-0010
35	FLAP RETAINING BAR	1	41-0030
36	MAST	1	41-0916
37	RIGHT SKID SHOE	1	42-0007
38	LEFT SKID SHOE	1	42-0008
39	MOTOR BOLT LOCK TAB	4	31-0503
40	MOTOR BOLT LOCK BASE	2	31-0504
41	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
42	ADAPTER, 1/4MOR X 3/8MJIC	1	21-1597
43	BLADE KIT (Includes 5, 12, 15, 17, & 23)	1	44-0271

ROTARY HEAD - 60" DECK, DECAL IDENTIFICATION

080718

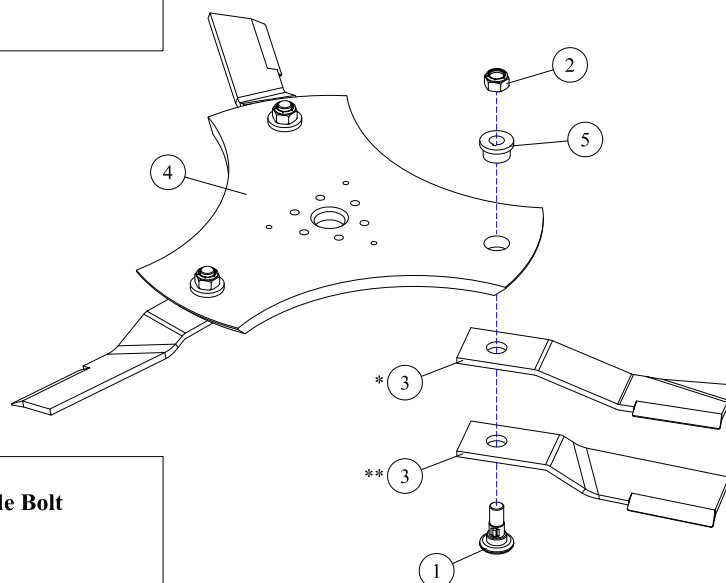
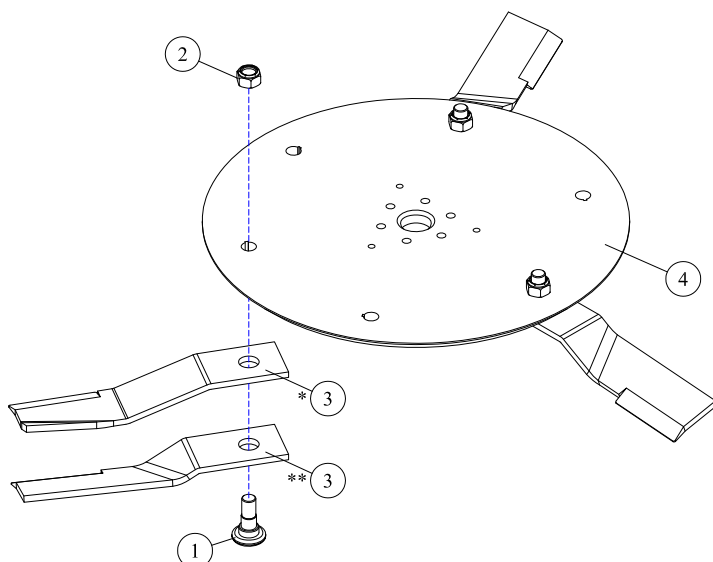


- 1** SERIAL NUMBER LABEL - (not included in kit) - QTY 1
- 2** PART #15-0055 - Made In USA - QTY 1
- 3** PART #15-0058 - Read Manual - QTY 1
- 4** PART #15-0053 - Diamond Mowers Logo 13" - QTY 1
- 5** PART #15-0050 - Diamond Mowers Logo 7" - QTY 2
- 6** PART #15-0057 - Decal Group Horizontal - QTY 1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

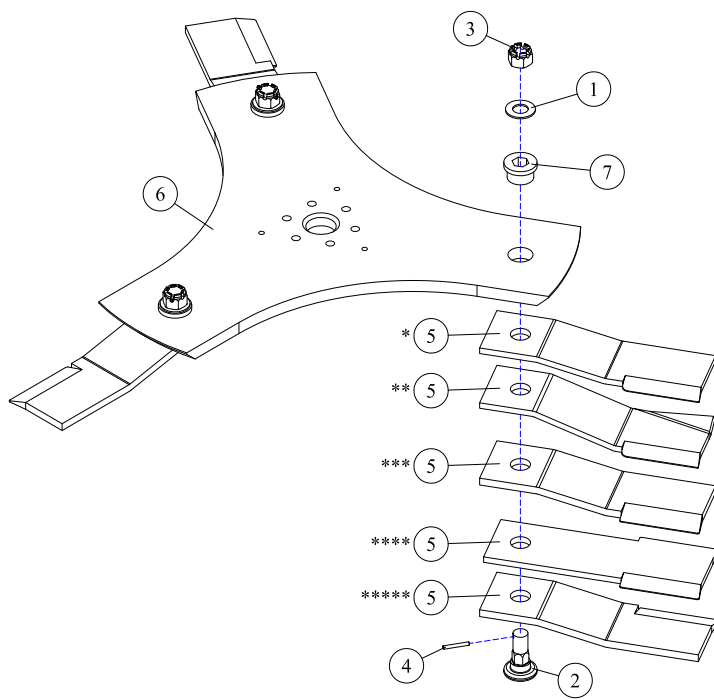
BOOM ROTARY HEAD - 60" BLADE CONFIGURATIONS**(24-0086) Tri-Hex Blade Dish with Hex Blade Bolt**

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		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
6	60" TRI-HEX DISH	1	24-0086
7	REPLACEABLE HEX INSERT	Avail	90-7010

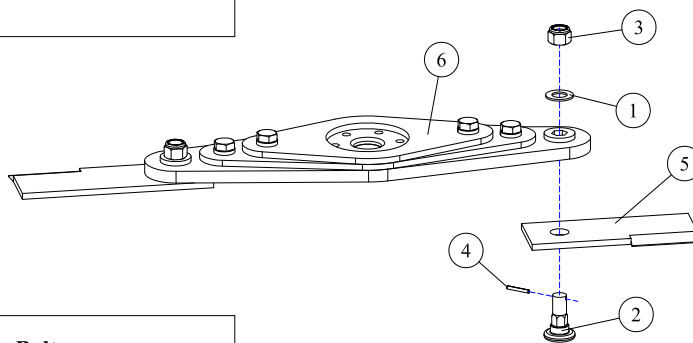
REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	KNIFE		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
4	BLADE DISH	1	24-0076
5	REPLACEABLE INSERT	Avail	90-7007

(24-0076) Tri-Blade Dish with 1 1/8" Keyed Blade Bolt**(24-0001) Round Blade Dish with 1 1/8" Keyed Blade Bolt**

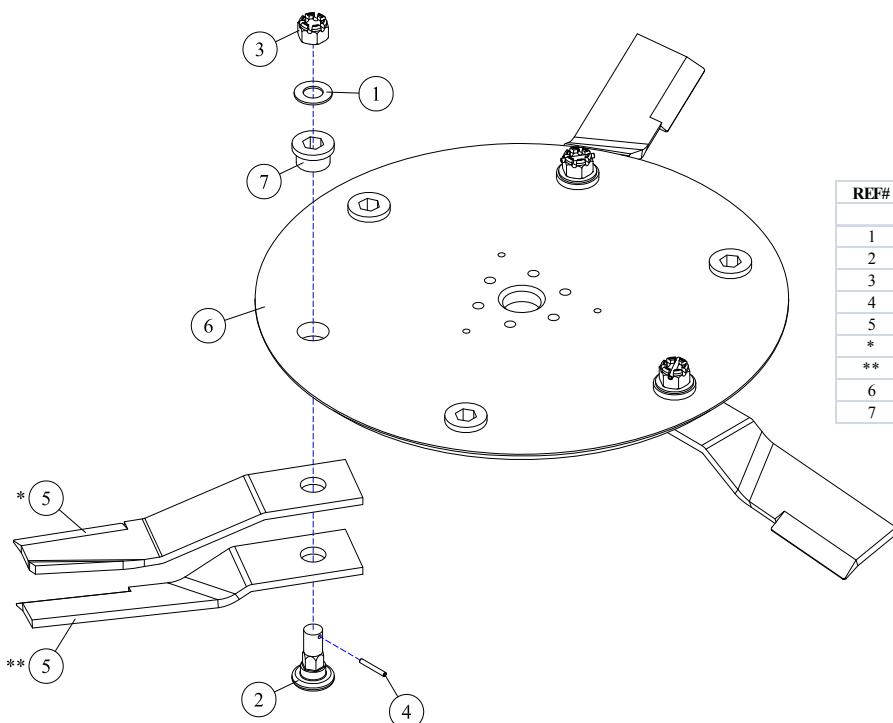
REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	KNIFE		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
4	BLADE DISH	1	24-0001

BOOM ROTARY HEAD - 60" BLADE CONFIGURATIONS**(24-0145) Tri-Hex Blade Dish with Hex Blade Bolt**

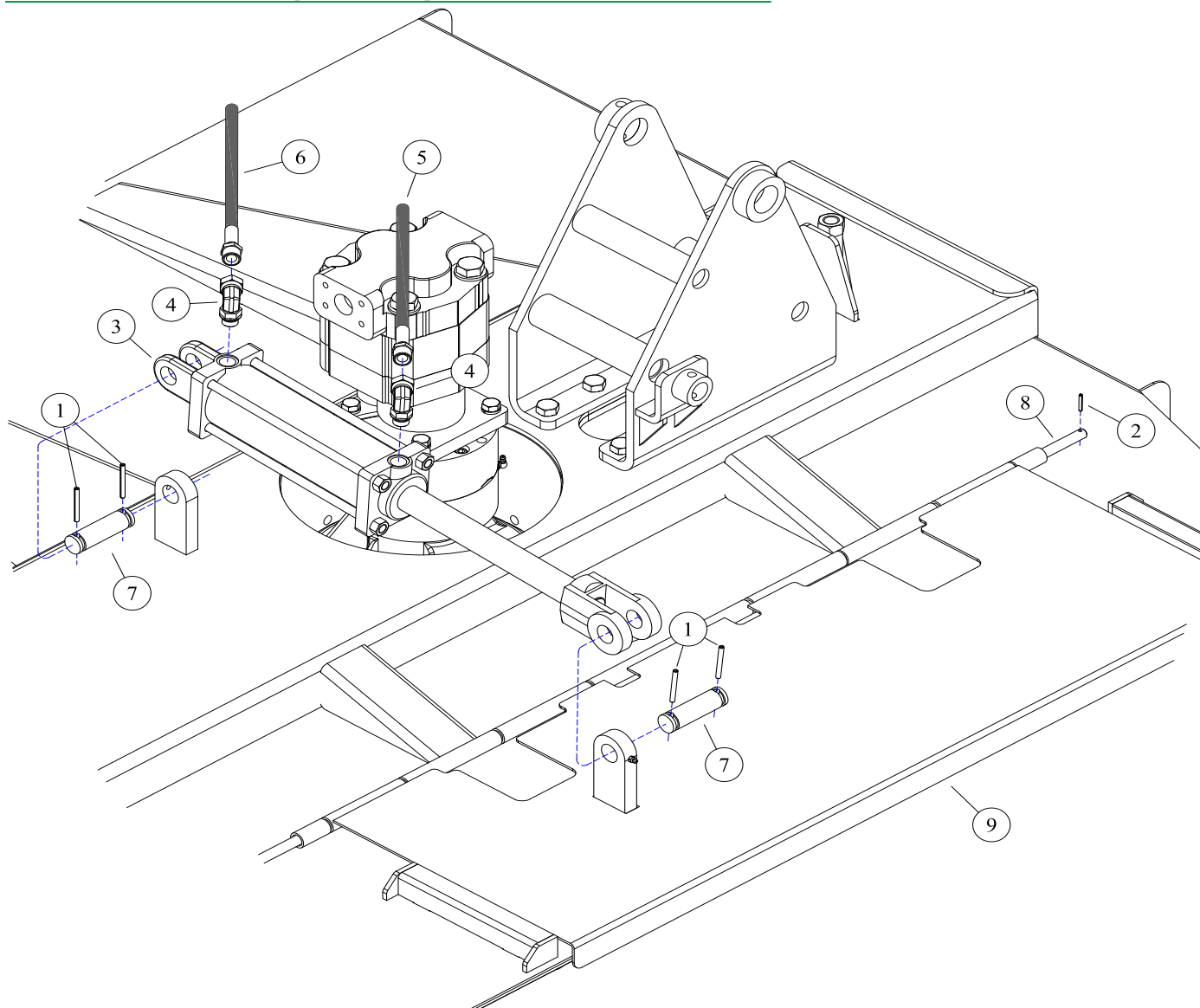
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S. FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH KNIFE - 1/2"	3	22-0003
**	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
***	50" BRUSH BLADE - 5/8"	3	22-0006
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE - REVERSE ROTATION - 5/8"	3	22-0017
6	60" BOOM DECK DISH	1	24-0145
7	REPLACEABLE HEX INSERT	Avail	90-7010

(24-0102) 3-Tier Blade Bar Reversible

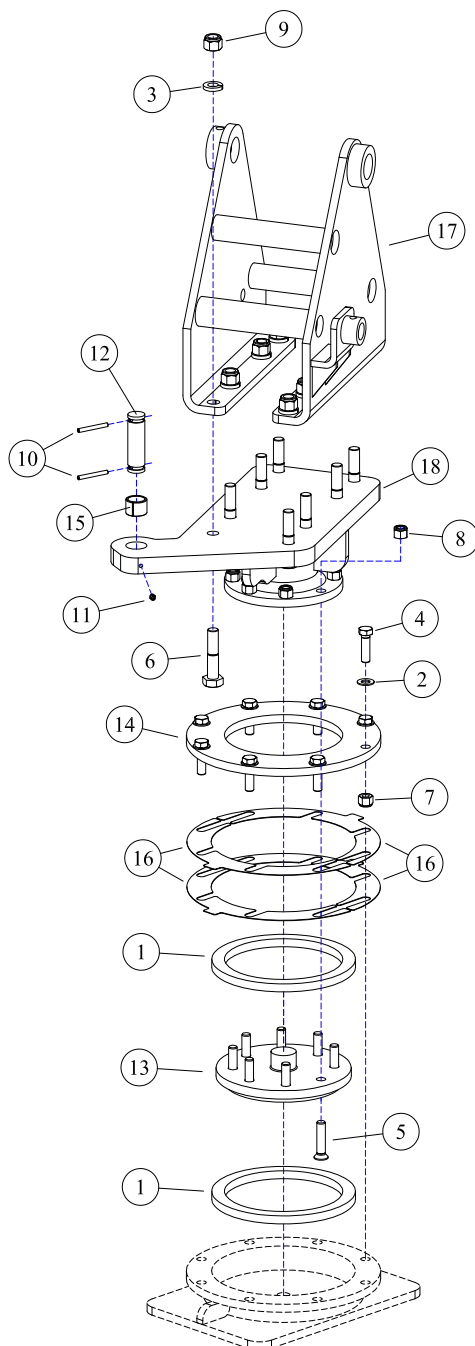
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 SAE H.S. FLAT WASHER	2	11-0057
2	KNIFE MOUNTING BOLT	2	11-0759
3	KNIFE MOUNTING NUT	2	11-1050
4	1/4 X 2 ROLL PIN	2	11-2005
5	50" BI-DIRECTIONAL BLADE	2	22-0012
6	BLADE BAR	1	24-0102

(24-0217) 60" 2-3 Blade Round Dish with Hex Blade Bolt

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		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
6	60" ROUND DISH, 2-3 BLADE	1	24-0217
7	REPLACEABLE HEX INSERT	Avail	90-7010

HYDRAULIC TRAPDOOR (OPTIONAL) - BOOM ROTARY HEADS 60"

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

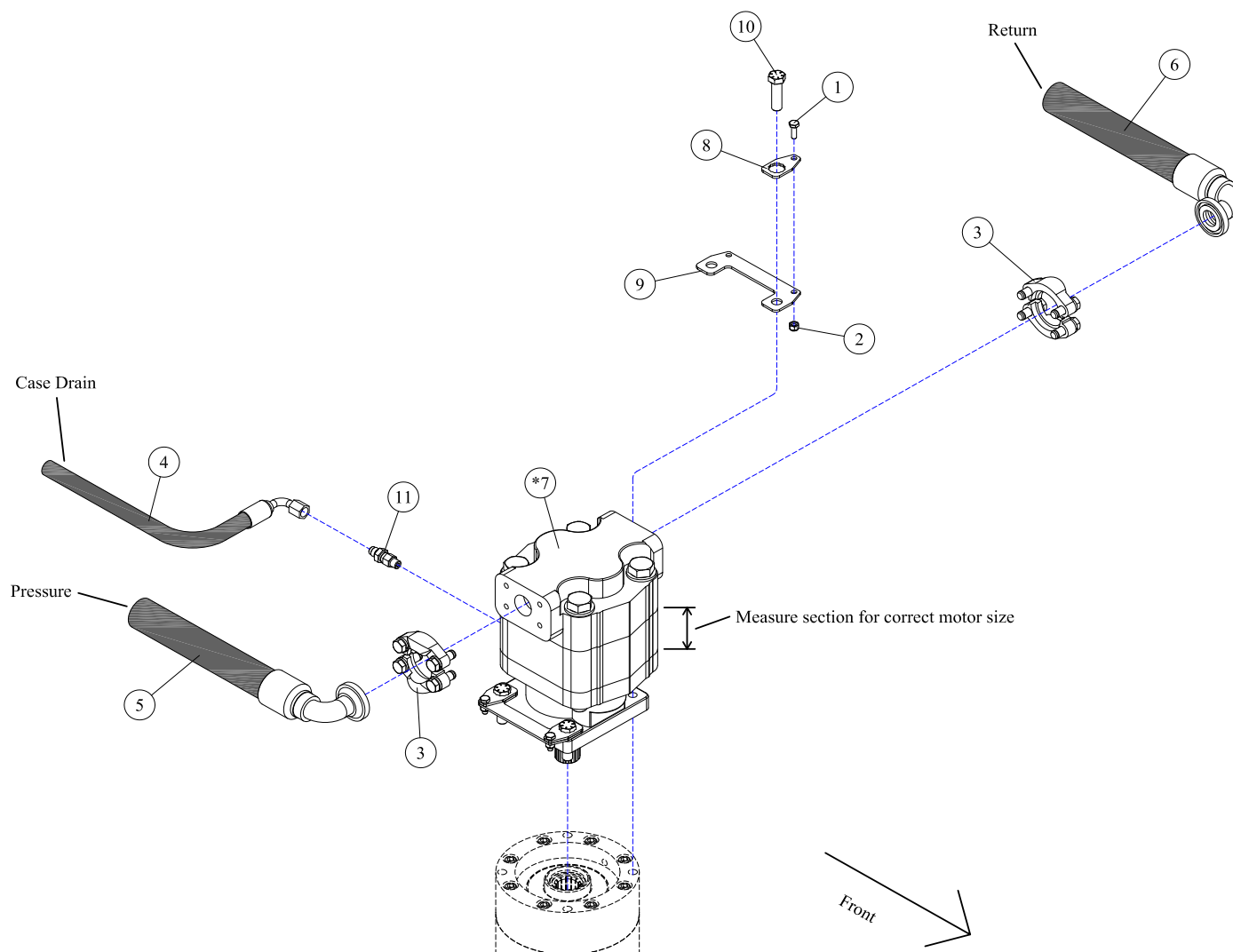
DECK ROTATOR (OPTIONAL) - BOOM ROTARY HEADS 60"

REF#	PARTS DESCRIPTION	REQ	PART #
1	NYLON BUSHING	2	10-0044
2	1/2 H.S. FLAT WASHER	8	11-0042
3	5/8 H.S. LOCK WASHER	8	11-0043
4	1/2 X 1-3/4 H.S. NC HEX CAPSCREW	8	11-0747
5	1/2 X 2-1/4 NF FLAT HEAD SKT HD CAP	8	11-0766
6	5/8 X 3 H.S. NF HEX CAPSCREW	8	11-0768
7	1/2 NC NYLOCK NUT	8	11-1018
8	1/2 NF NYLOCK NUT	8	11-1028
9	5/8 H.S. NF STOVER NUT	8	11-1143
10	1/4 X 2 ROLL PIN	2	11-2005

REF#	PARTS DESCRIPTION	REQ	PART #
11	GREASE ZERK	1	23-0004
12	CLEVIS PIN	1	27-0004
13	PIVOT DECK BOLT-ON PLATE	1	31-0073
14	PIVOT DECK COVER PLATE	1	31-0074
15	BUSHING	1	34-0005
16	SHIM	4	34-0078
17	MAST	1	41-0195
18	PIVOT ARM		
	PIVOT ARM - RIGHT (SHOWN)	1	41-0475
	PIVOT ARM - LEFT	1	41-0505

DRIVE ASSEMBLIES



DRIVE ASSEMBLY - 60" ROTARY MOWER (WHEEL LOADER POWERED BOOM ONLY)

* Note: These are the flow rates AFTER the oil has passed through the 4:1 divider.

REF#	PARTS DESCRIPTION	REQ	PART #
1	1/4 X 3/4 NC HEX CAP	4	11-0588
2	1/4 NC NYLOCK NUT	4	11-1022
3	#20 FLANGE KIT	2	21-2105
4	HOSE 3/8 X 62 (3/8FJIC-90DEG X 1/2MJIC)	1	21-4304
5	HOSE 1 X 65 (1FJIC X #20FLG-90DEG)	1	21-2516
6	HOSE 1 X 57 (1FJIC X #20FLG-90DEG)	1	21-2517

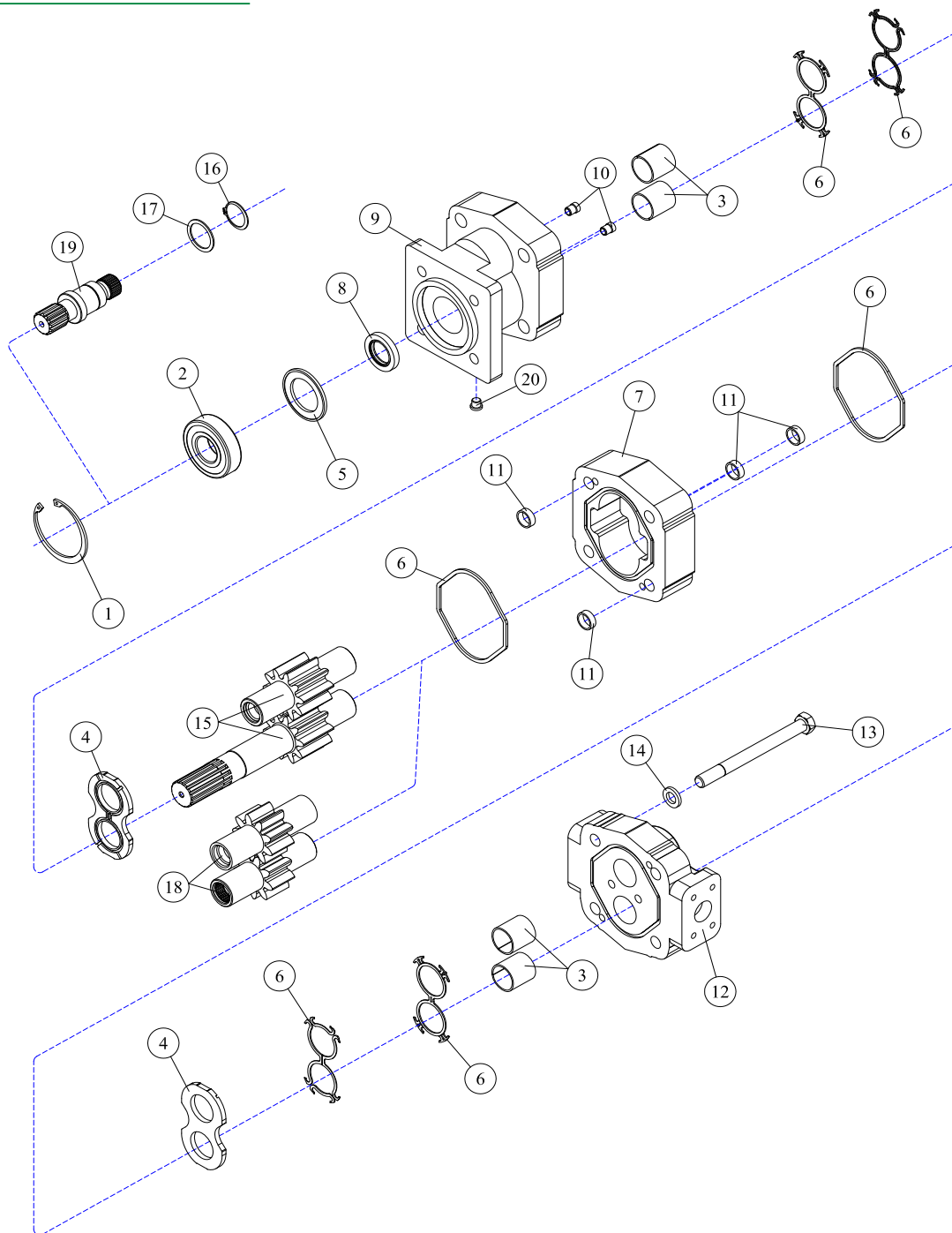
REF#	PARTS DESCRIPTION	REQ	PART #
* 7	MOTOR		
	M365, 1-3/4" GEAR SET, 2-1/4" SECT, 30-39 GAL/MIN	1	30-0503
	M365, 2-1/4" GEAR SET, 2-3/4" SECT, 40-45 GAL/MIN	1	30-0524
8	MOTOR BOLT LOCK TAB	4	31-0503
9	MOTOR BOLT LOCK BASE	2	31-0504
10	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
11	ADAPTER, 1/4MOR X 3/8MJIC	1	21-1597

DECK ASSEMBLIES



30-0503 - MOTOR ASSEMBLY

**UNDER
CONSTRUCTION**

30-0524 - 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	2-1/4" M365 GEAR HOUSING	1	30-1026
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	Call
14	WASHER	4	30-1093
	GEAR SET OPTION A:		
15	2-1/4" GEAR SET	1	30-1165
	GEAR SET OPTION B:		
16	RETAINING RING	1	30-1019
17	WASHER	1	30-1020
18	2-1/4" GEAR SET	1	30-1025
19	CONTINENTAL SHAFT, SPLINED	1	30-1144
20	PLUG	1	30-1096
*	SEAL APPLICATOR TOOL (not shown)	Avail	30-1048

35-0088 - DIRECT DRIVE SPINDLE

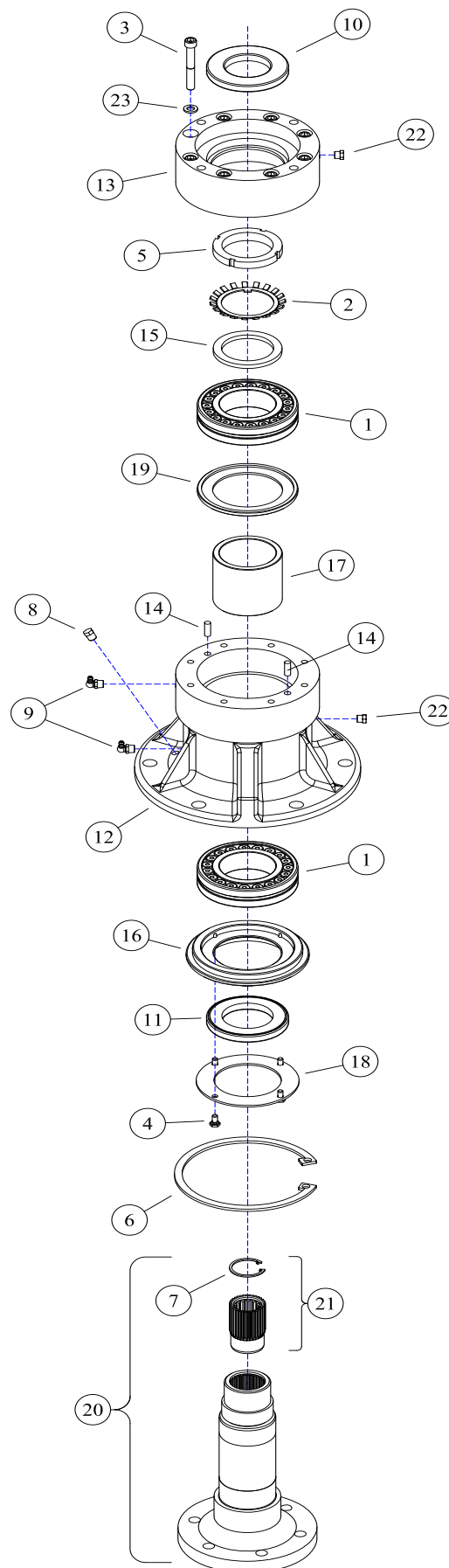
Grease with #2 lithium based grease every 500hrs.
Use 10 pumps (.44oz) into each of the two grease
zerks.

Warning: Do not overgrease

Overgreasing will cause damage or premature failure
of the bearings, housing & seals.

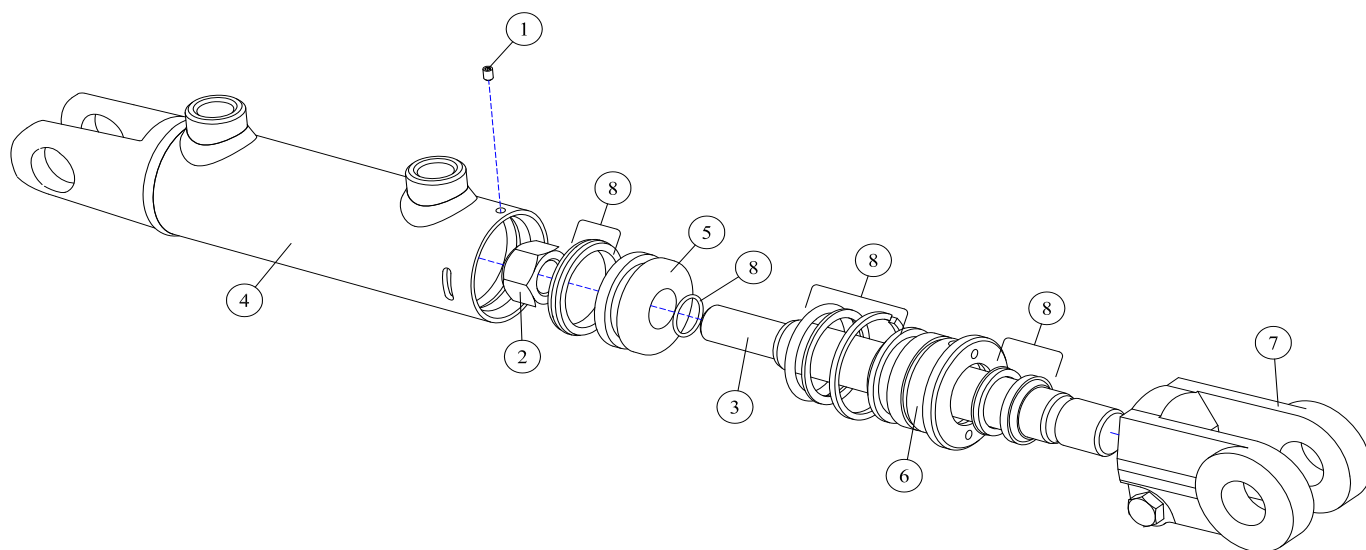
REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING	2	10-0055
2	LOCKING WASHER	1	11-0048
3	3/8 X 2-3/4 NC SKT HEAD CAPSCREW	8	11-0703
4	1/4 X 1/2 NC CAPSCREW	4	11-0741
5	2-1/2 SPANNER NUT	1	11-1037
6	LARGE SNAP RING	1	11-2021
7	SMALL SNAP RING	1	11-2022
8	PIPE PLUG	1	21-1136
9	1/8 X 90 GREASE ZERK	2	23-0005
10	UPPER SEAL	1	33-0035
11	LOWER SEAL	1	33-0057
12	SPINDLE HOUSING	1	35-0021
13	SEAL/MOTOR MOUNT	1	35-0022
14	ALIGNMENT PIN	2	35-0032
15	SPACER	1	35-0050
16	BOTTOM SEAL PLATE	1	35-0063
17	SPACER	1	35-0064
18	BOTTOM PLATE	1	35-0065
19	GREASE CATCH	1	35-0066
20	SPINDLE SHAFT COMPLETE	1	35-0090
*21	SPLINED INSERT KIT	1	35-0091
22	BREATHER	2	80-1016
23	3/8 LOCK WASHER GR 5	8	11-0005

* The splined insert kit includes the insert removal tool 11-0913.

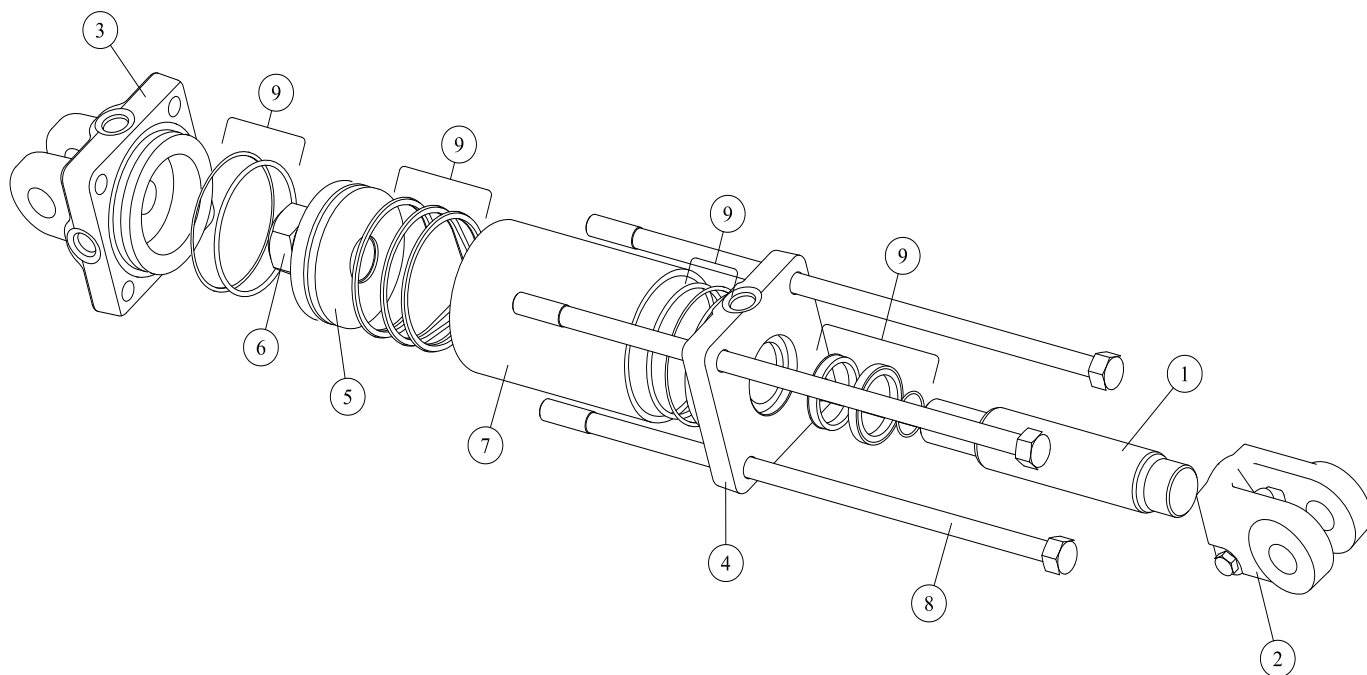


LIFT ASSEMBLIES



14-0002 - 3X18 WELDED CYLINDER

REF#	PARTS DESCRIPTION	REQ	PART #
1	1/4-20 UNC-3/8 SETSCREW	1	11-2014
2	LOCKNUT	1	14-1120
3	PISTON ROD	1	14-1132
4	BUTT & TUBE ASSEMBLY	1	14-1142
5	PISTON	1	14-1150
6	GLAND	1	14-1155
7	CLEVIS ASSEMBLY	1	14-1160
8	SEAL KIT	1	33-0038

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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**72-HOUR PARTS
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