



PARTS BOOK

ROTARY HEADS

• 60" CUT, TRAPDOOR • BOOM 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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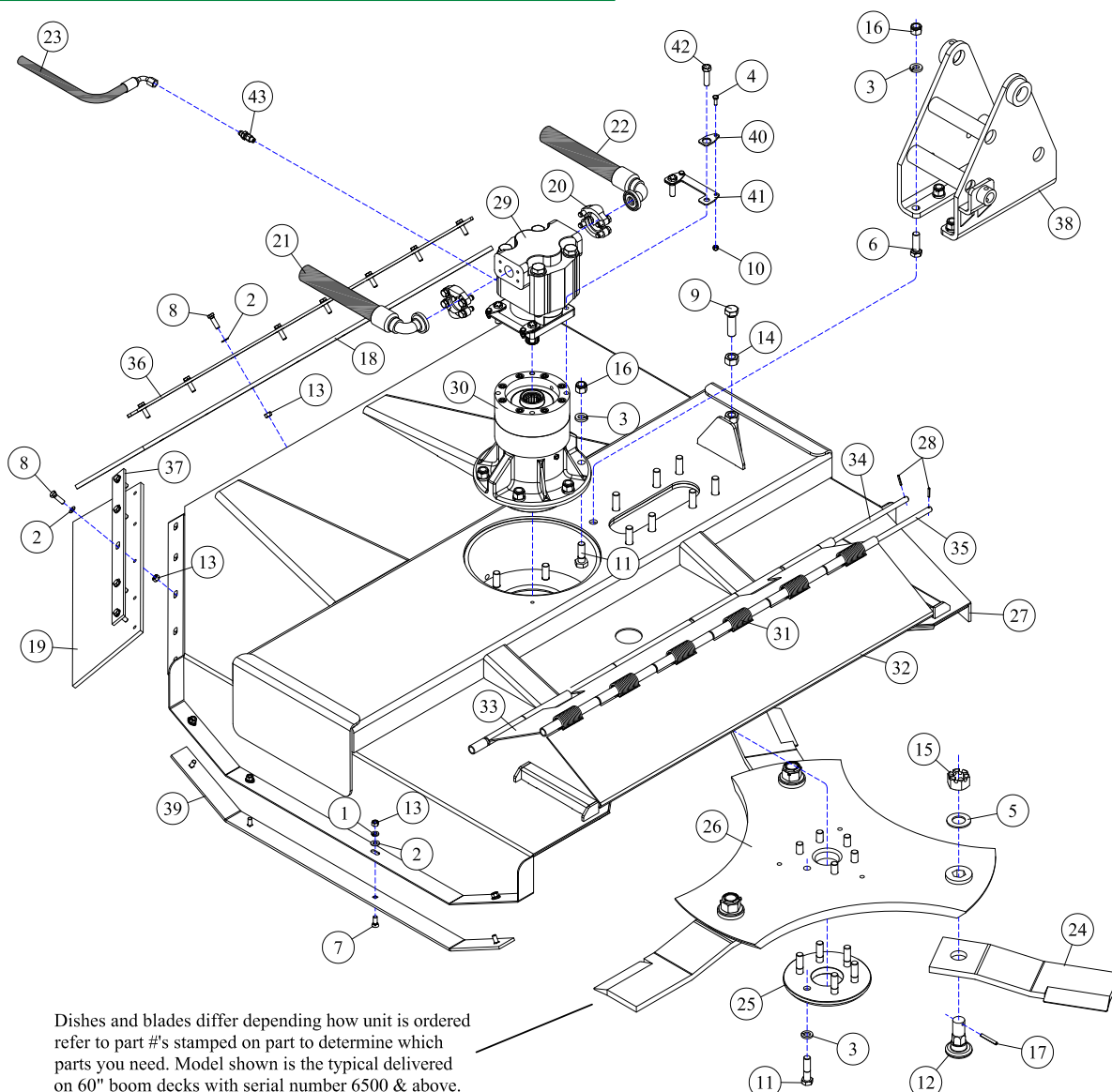


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ROTARY HEADS

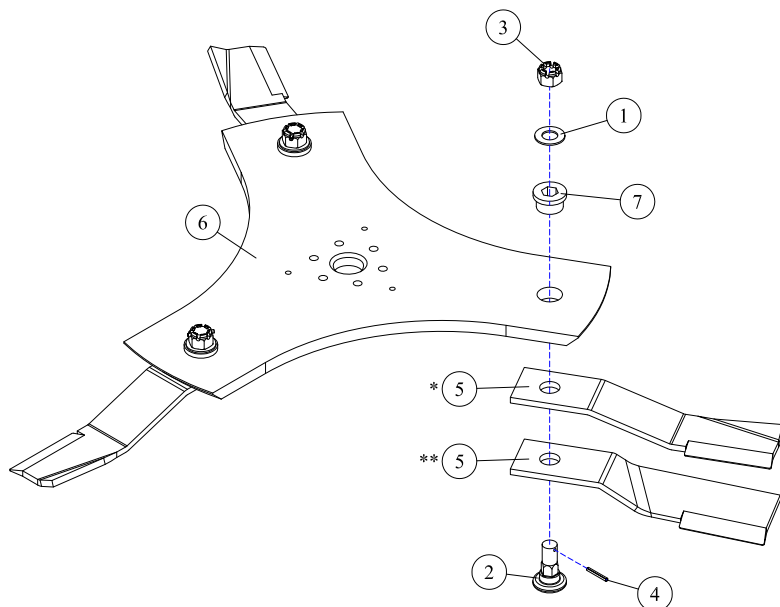


BOOM ROTARY HEAD - 60" DIRECT DRIVE, TRAPDOOR

Dishes and blades differ depending how unit is ordered refer to part #'s stamped on part to determine which parts you need. Model shown is the typical delivered on 60" boom decks with serial number 6500 & above.

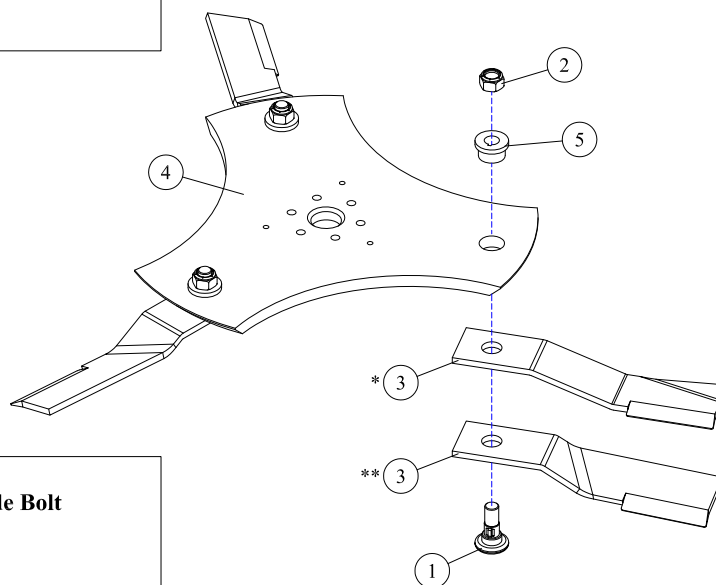
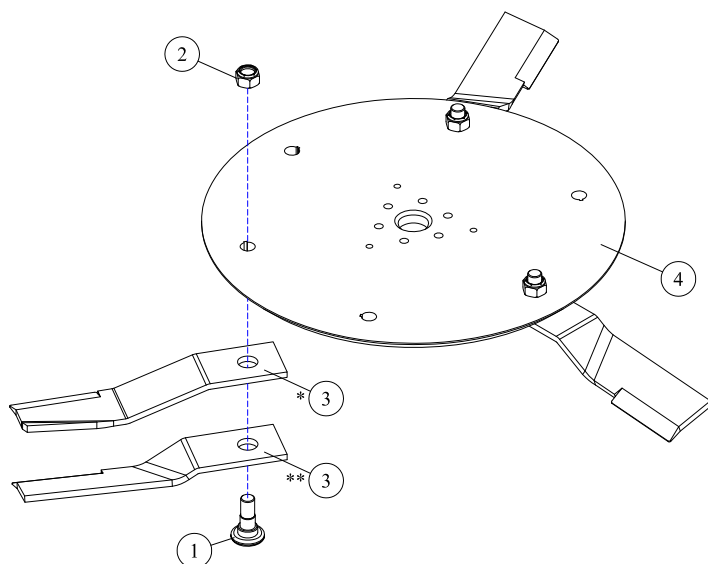
REF#	PARTS DESCRIPTION	REQ	PART #
1	3/8 LOCK WASHER	8	11-0005
2	5/16 FLAT WASHER	21	11-0015
3	5/8 H.S. LOCK WASHER	20	11-0043
4	1/4 X 3/4 NC HEX CAP	4	11-0588
5	1-1/8 SAE H.S. FLAT WASHER	3	11-0057
6	5/8 X 2 H.S. NF HEX CAPSCREW	8	11-0508
7	PLOW BOLT	8	11-0804
8	3/8 X 1-1/4 NC HEX CAPSCREW	13	11-0533
9	3/4 X 4 NC HEX CAPSCREW	1	11-0557
10	1/4 NC NYLOCK NUT	4	11-1022
11	5/8 X 2-1/4 NF H.S. HEX CAPSCREW	12	11-0691
12	BLADE BOLT - HEX BASE	3	11-0759
13	3/8 NC HEX NUT	21	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 ROLL PIN	3	11-2005
18	FLAP, LARGE	1	18-0016
19	FLAP, SMALL	1	18-0017
20	FLANGE KIT	2	21-2105
21	HOSE 1 X 65 (1FJIC X #20FLG-90DEG)	1	21-2516
22	HOSE 1 X 57 (1FJIC X #20FLG-90DEG)	1	21-2517
23	HOSE 3/8 X 62 (3/8FJIC-90DEG X 1/2MJIC)	1	21-4304

REF#	PARTS DESCRIPTION	REQ	PART #
24	5/8" BRUSH BLADE	3	22-0006
25	BOLT PROTECTOR	1	24-0004
26	TRI-HEX DISH	1	24-0145
27	60" DECK SHELL	1	25-0061
28	5/32 X 1 ROLL PIN	4	11-2054
29	MOTOR 365" 2-1/4" GEARS, SPLINE SHAFT (Excluding wheel loader-powered booms.)	1	30-0524
30	SPLINDLE ASSEMBLY	1	35-0072
31	TORSION SPRING	6	36-0003
32	FRONT SHIELD	1	41-0007
33	REAR SHIELD	1	41-0008
34	TRAP DOOR ROD, REAR	1	41-0009
35	TRAP DOOR ROD, FRONT	1	41-0010
36	FLAP BAR, LARGE	1	41-0065
37	FLAP BAR, SMALL	1	41-0066
38	MAST	1	41-0195
39	SKID SHOE	2	42-0011
40	MOTOR BOLT LOCK TAB	4	31-0503
41	MOTOR BOLT LOCK BASE	2	31-0504
42	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
43	ADAPTER, 1/4MOR X 3/8MJIC	1	21-1597
44	BLADE KIT (Includes 5, 12, 15, 17, & 24)	1	44-0228

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

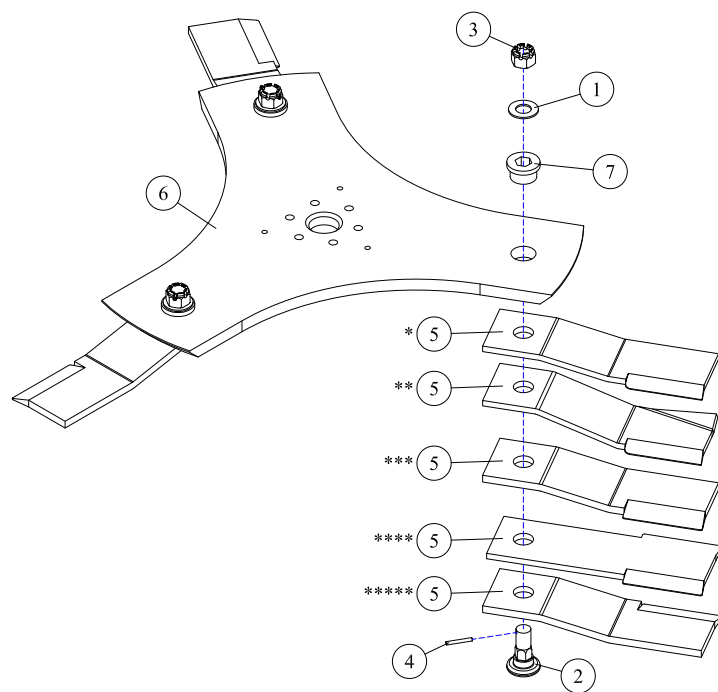
REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	KNIFE		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
4	BLADE DISH	1	24-0076
5	REPLACEABLE INSERT	Avail	90-7007

(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

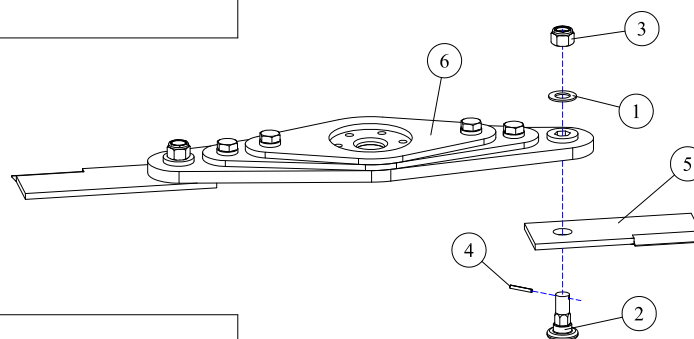
BOOM ROTARY HEAD - 60" BLADE CONFIGURATIONS

(24-0145) Tri-Hex Blade Dish with Hex Blade Bolt



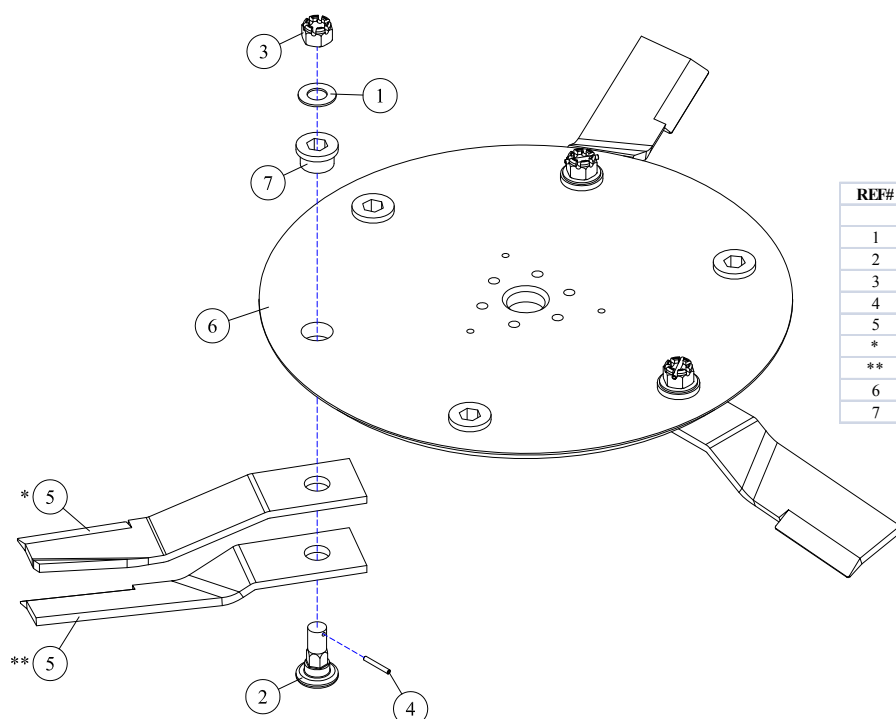
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S. FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH KNIFE - 1/2"	3	22-0003
**	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
***	50" BRUSH BLADE - 5/8"	3	22-0006
****	50" BI-DIRECTIONAL 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	REPLACABLE HEX INSERT	Avail	90-7010

(24-0102) 3-Tier Blade Bar Reversible

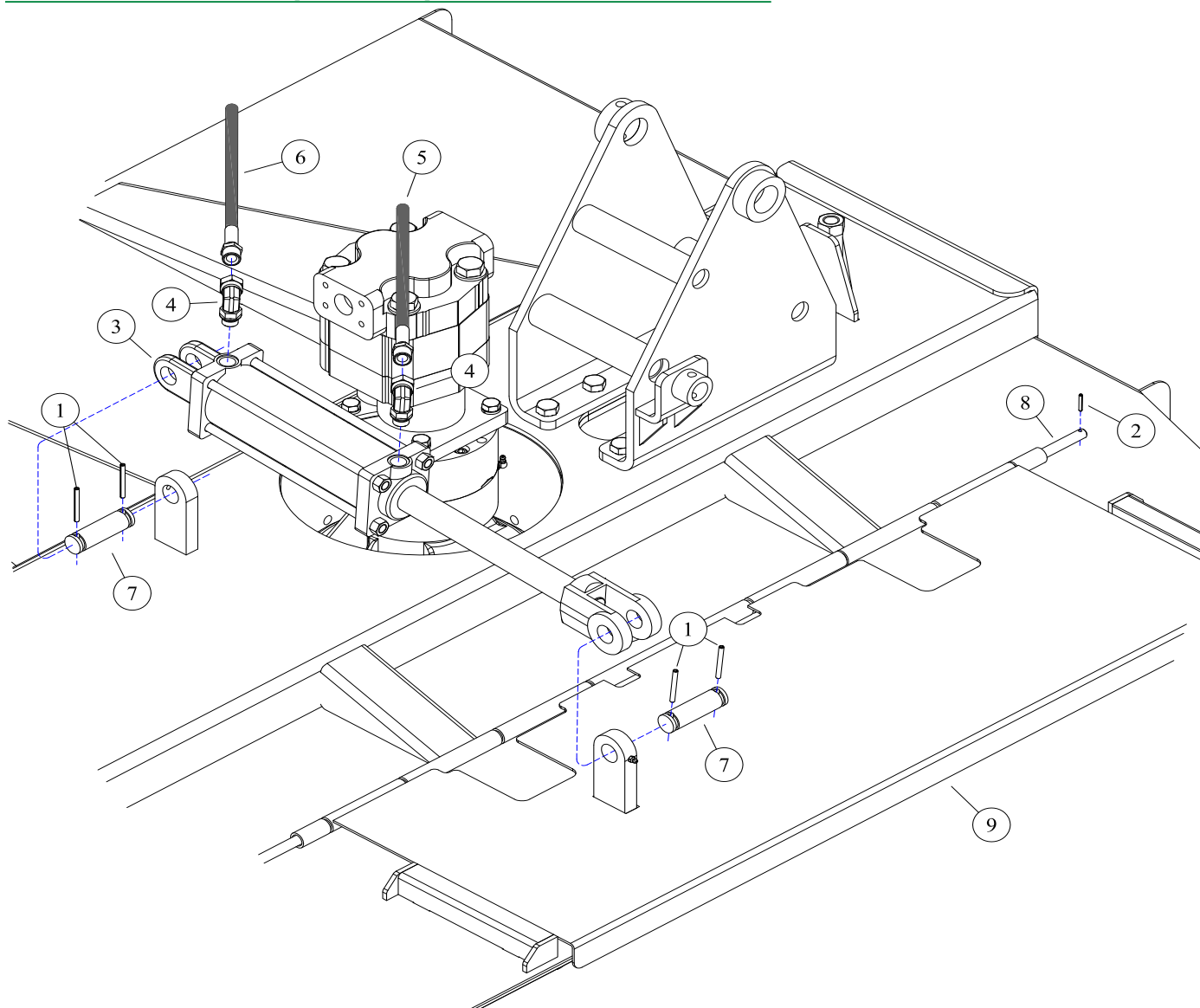


REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 SAE H.S. FLAT WASHER	2	11-0057
2	KNIFE MOUNTING BOLT	2	11-0759
3	KNIFE MOUNTING NUT	2	11-1050
4	1/4 X 2 ROLL PIN	2	11-2005
5	50" BI-DIRECTIONAL BLADE	2	22-0012
6	BLADE BAR	1	24-0102

(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	REPLACABLE HEX INSERT	Avail	90-7010

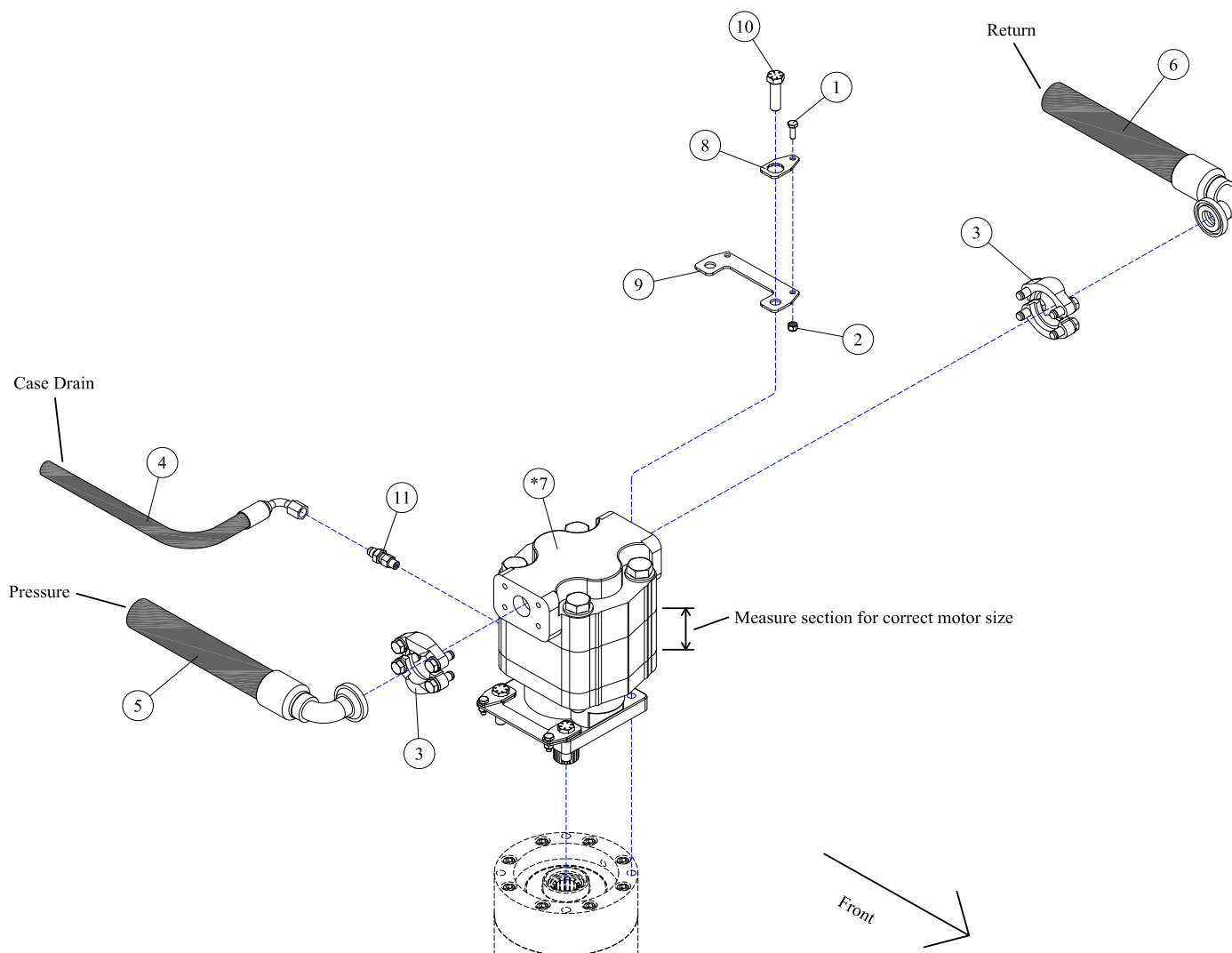
HYDRAULIC TRAPDOOR (OPTIONAL) - BOOM ROTARY HEADS 60"

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

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

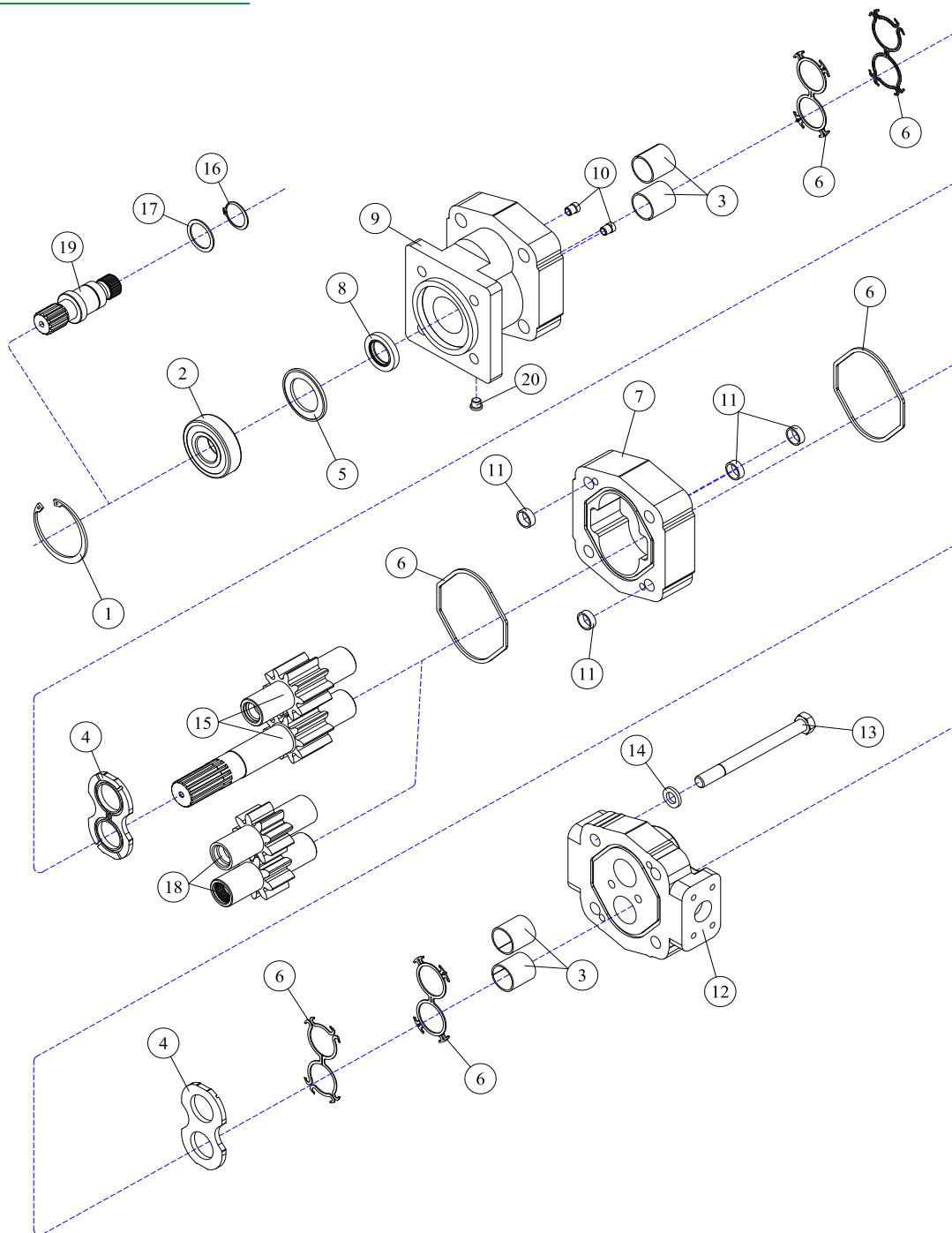
REF#	PARTS DESCRIPTION	REQ	PART #
* 7	MOTOR		
	M365, 1-3/4" GEAR SET, 2-1/4" SECT, 30-39 GAL/MIN	1	30-0503
	M365, 2-1/4" GEAR SET, 2-3/4" SECT, 40-45 GAL/MIN	1	30-0524
8	MOTOR BOLT LOCK TAB	4	31-0503
9	MOTOR BOLT LOCK BASE	2	31-0504
10	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	1	11-0664
11	ADAPTER 1/4MOR X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

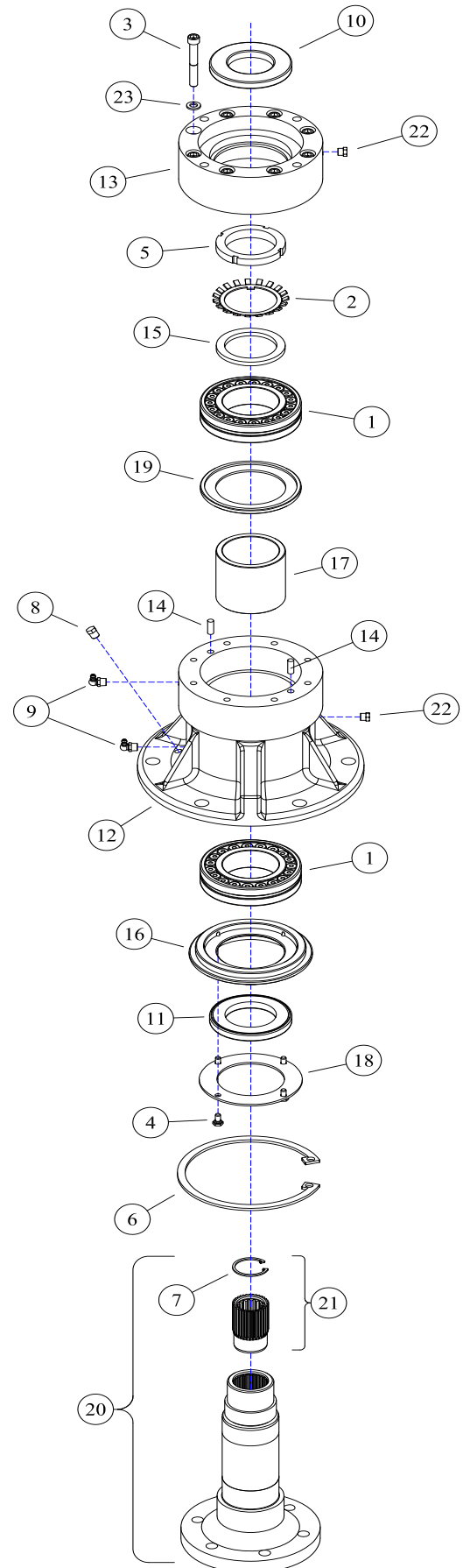
Grease with #2 lithium based grease every 500hrs.
Use 10 pumps (.44oz) into each of the two grease
zerks.

Warning: Do not overgrease

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

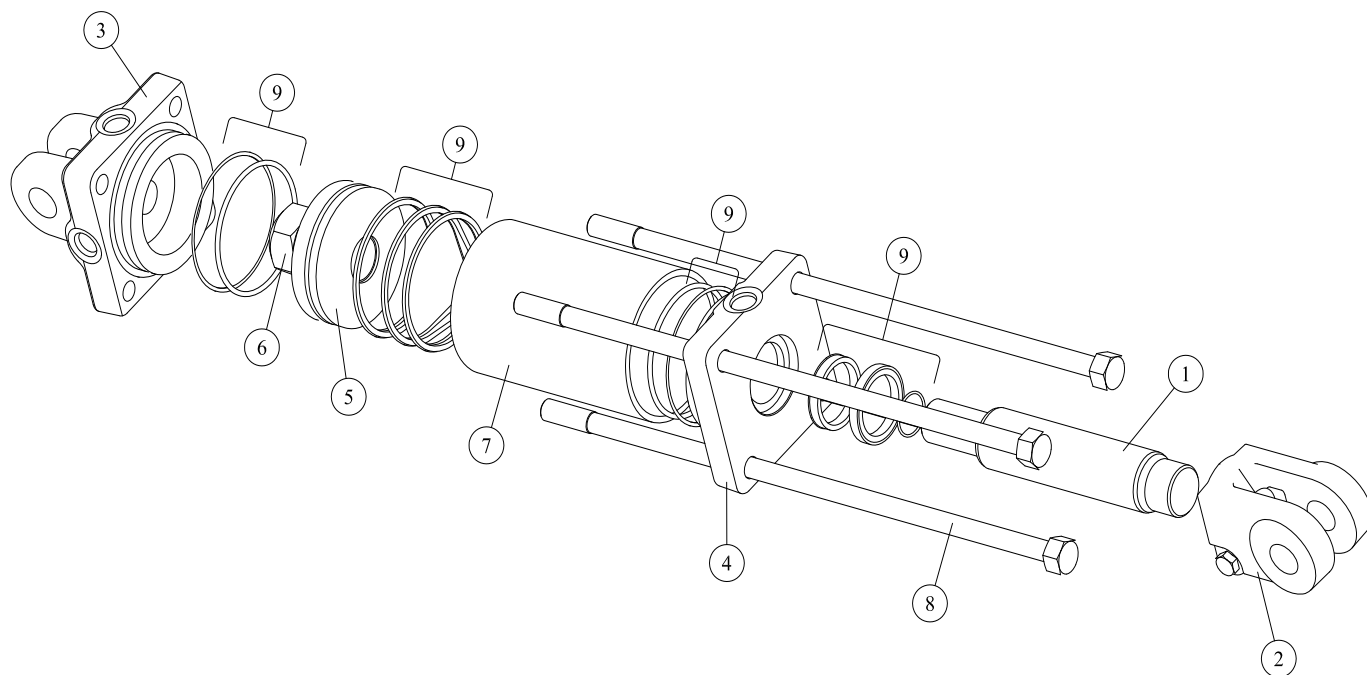
REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING	2	10-0055
2	LOCKING WASHER	1	11-0048
3	3/8 X 2-3/4 NC SKT HEAD CAPSCREW	8	11-0703
4	1/4 X 1/2 NC CAPSCREW	4	11-0741
5	2-1/2 SPANNER NUT	1	11-1037
6	LARGE SNAP RING	1	11-2021
7	SMALL SNAP RING	1	11-2022
8	PIPE PLUG	1	21-1136
9	1/8 X 90 GREASE ZERK	2	23-0005
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



14-0010 - 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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