



PARTS BOOK

50" BOOM ROTARY HEADS

• HYD TRAP, INV MNT • 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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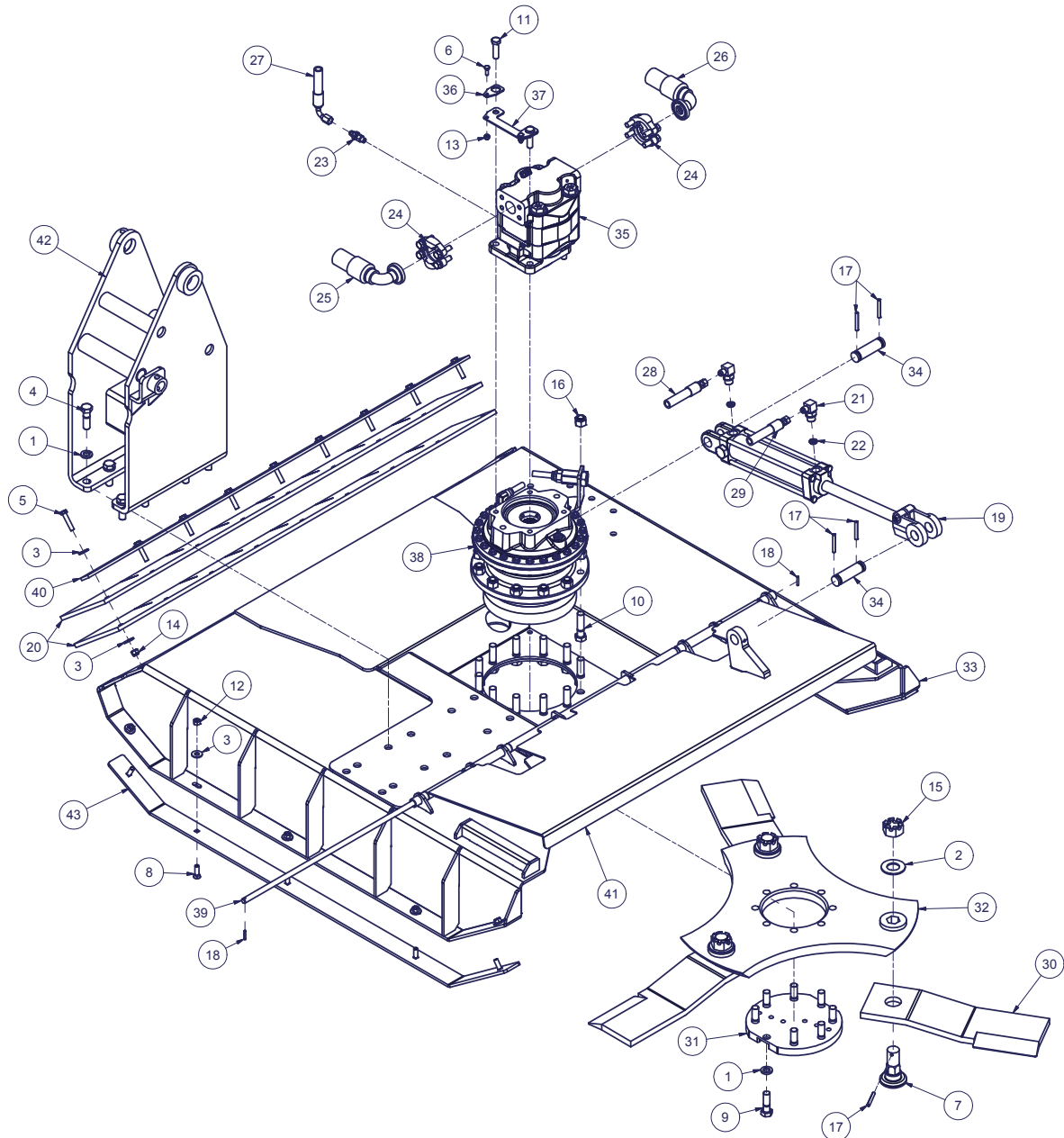
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ROTARY HEADS



ROTARY HEADS - 50" D3, HYDRAULIC TRAPDOOR, INVERSE MOUNT

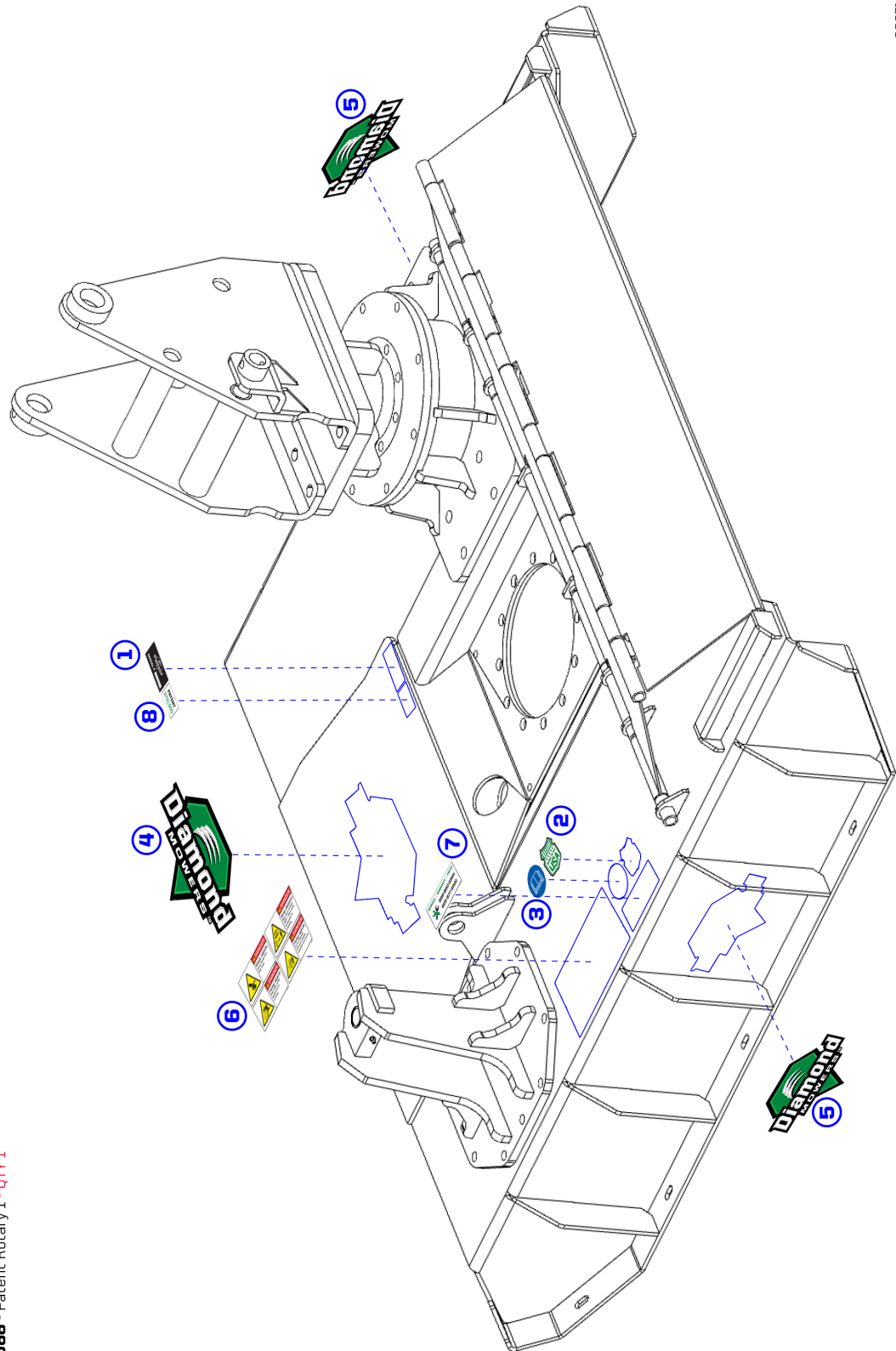


REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
1	5/8 LOCK WASHER GR 8	16	11-0043		
2	1-1/8 SAE FLAT WASHER GR 8	3	11-0057		
3	3/8 SAE FLAT WASHER	28	11-0090		
4	5/8 X 2 NF HEX CAP GR 8	8	11-0508	211.9	287.3
5	3/8 X 1-3/4 NC HEX CAP	9	11-0521	30.9	41.9
6	1/4 X 3/4 NC HEX CAP	4	11-0588	8.5	11.5
7	D3 BLADE BOLT	3	11-0759	1444.0	1957.8
8	3/8 X 1-1/4 NC PLOW BOLT	10	11-0804	30.9	41.9
9	5/8 X 2 NC HEX CAP, GR 8	8	11-0970	211.9	287.3
10	5/8 X 2-1/2 NC HEX CAP, GR 8	12	11-0971	211.9	287.3
11	1/2 X 1-1/2 NC HEX CAP, GR. 8	4	11-0972	106.4	144.3
12	3/8 NC HEX NUT	10	11-1001		
13	1/4 NC NYLOCK NUT	4	11-1022		
14	3/8 NC NYLOCK NUT	9	11-1024		
15	1-1/8-12 NF SLOTTED HEX NUT GR 8	3	11-1050		
16	5/8 NC NYLOCK NUT, GR. 8	12	11-1073		
17	1/4" ROLL PIN X 2"	7	11-2005		
18	5/32 X 1 ROLL PIN	2	11-2054		
19	2 X 8 TIE ROD CYLINDER	1	14-0010		
20	50" BOOM FLAP	2	18-0015		
21	3/8MJIC X 1/2MORB-90DEG	2	21-1403		

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
22	DISC RESTRICTOR	2	21-1551		
23	ADAPTER, 1/4MOR X 3/8MJIC	1	21-1597		
24	#20 FLANGE KIT	2	21-2105		
25	HOSE 1 X 64.5 (#20FLG-90 X 1FJIC)	1	21-2516		
26	HOSE 1 X 57 (#20FLG-90 X 1FJ)	1	21-2517		
27	HOSE 3/8 X 62 (3/8FJIC-90DEG X 1/2MJIC)	1	21-4304		
28	HOSE 3/8 X 66 (3/8FJIC X 1/2MJIC)	1	21-4547		
29	HOSE 3/8 X 77 (3/8FJIC X 1/2MJIC)	1	21-4548		
30	BRUSH BLADE - 5/8	3	22-0006		
31	BOLT PROTECTOR, 60 FBS, AUBURN	1	24-0224		
32	DISH, 50 TRI-HEX, AUBURN	1	24-0227		
33	50 INCH D3 REVERSE DECK	1	25-0233		
34	CLEVIS PIN, 1 X 3-1/2	2	27-0004		
35	MOTOR, M365 1-1/2" GEAR, 14 SPLINE	1	30-0515		
36	MOTOR TOP LOCK PLATE	4	31-0503		
37	V3LOCK BOTTOM	2	31-0504		
38	D3 SPINDLE, DIRECT DRIVE	1	35-0093		
39	REAR TRAP DOOR ROD	1	41-0009		
40	FLAP RETAIN BAR 50"	1	41-0030		
41	50" INVERSE TRAP DOOR	1	41-0510		
42	MAST, D3 INVERSE DECK	1	41-1708		
43	SKID SHOE	2	42-0059		

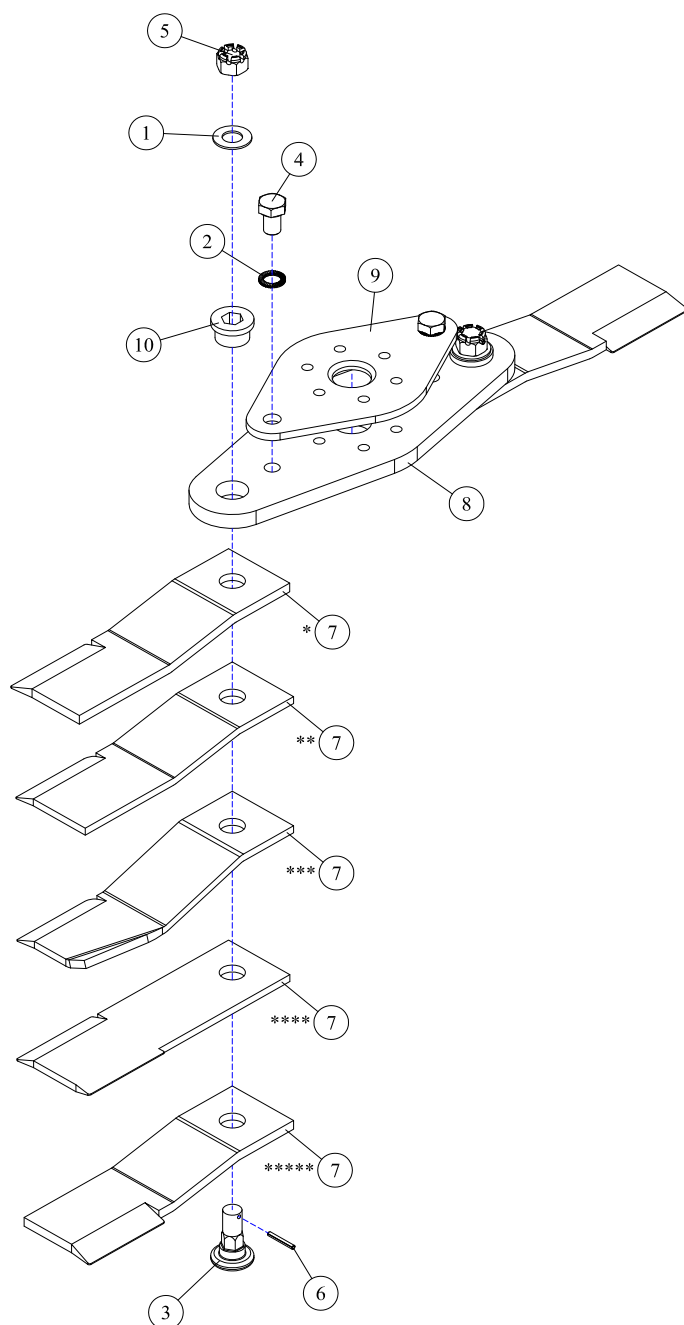
ROTARY HEADS - DECAL IDENTIFICATION

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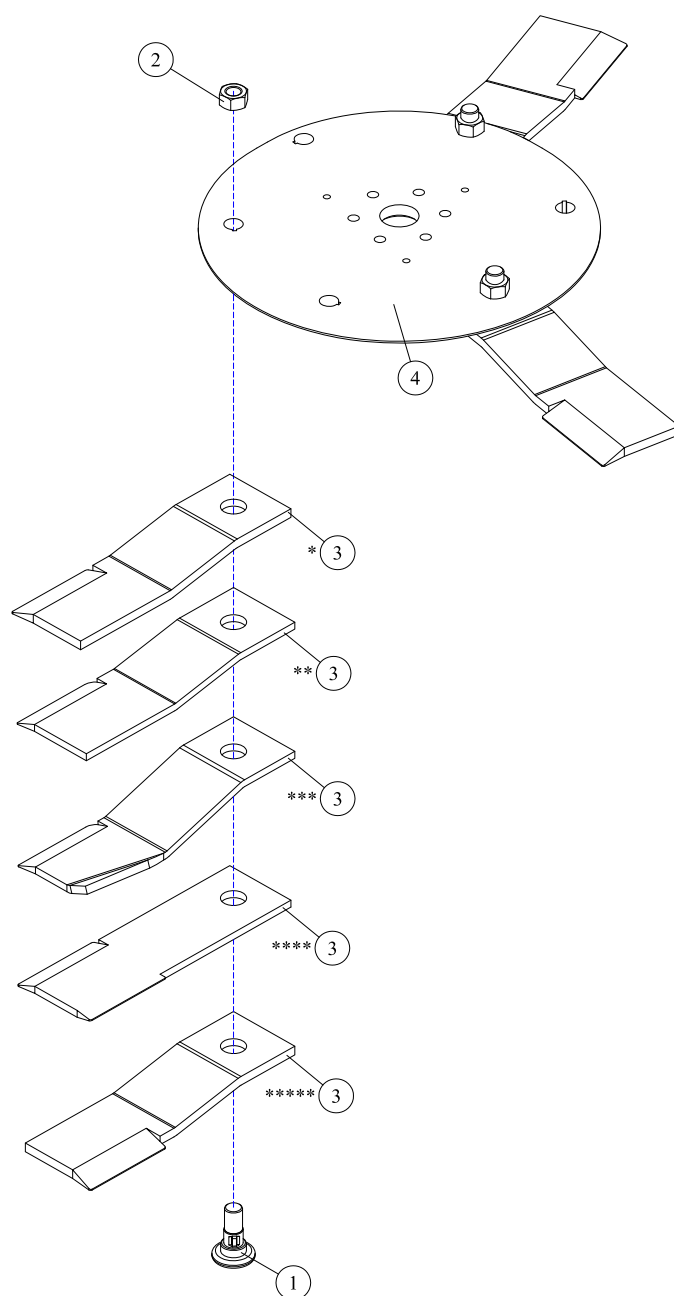


- 1 SERIAL NUMBER LABEL** - (not included in kit) - QTY 1
- 2 PART #15-0055** - Made In USA - QTY 1
- 3 PART #15-0058** - Read Manual - QTY 1
- 4 PART #15-0053** - Diamond Mowers Logo 13" - QTY 1
- 5 PART #15-0050** - Diamond Mowers Logo 7" - QTY 2
- 6 PART #15-0057** - Decal Group Horizontal - QTY 1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

ROTARY HEADS - 50" BLADE CONFIGURATIONS

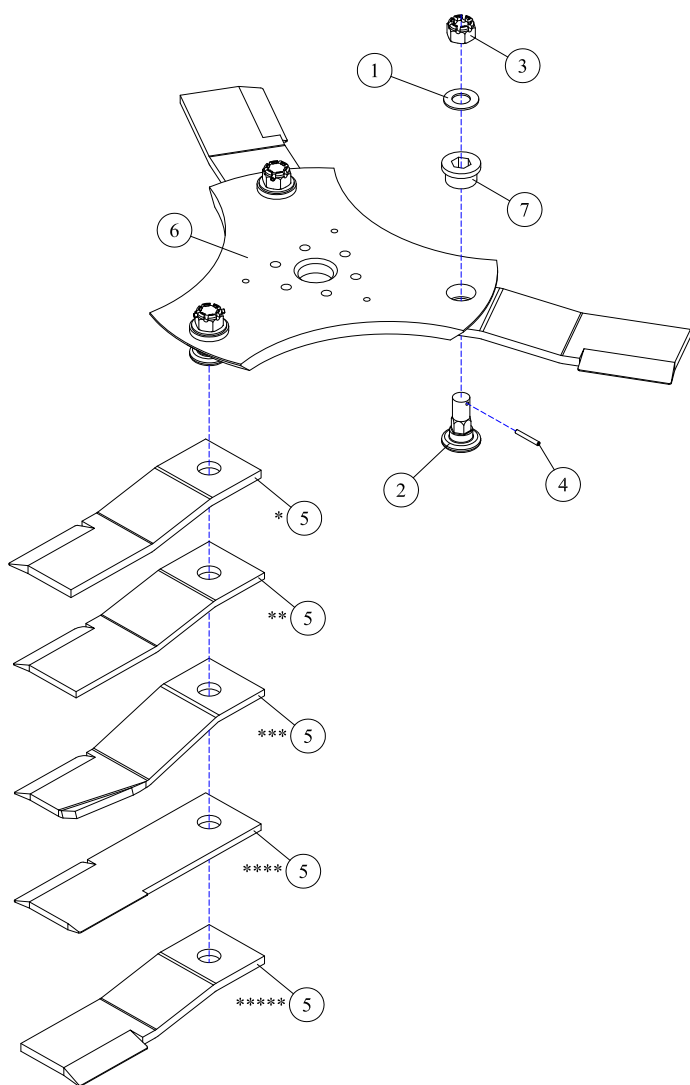


REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S. FLAT WASHER	2	11-0057
2	1" NORDLOCK WASHER	2	11-0059
3	BLADE MOUNTING BOLT	2	11-0759
4	1 X 1-1/2 NF H.S. HEX CAP	2	11-0772
5	BLADE MOUNTING NUT	2	11-1050
6	1/4 X 2 ROLLPIN	2	11-2005
7	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	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

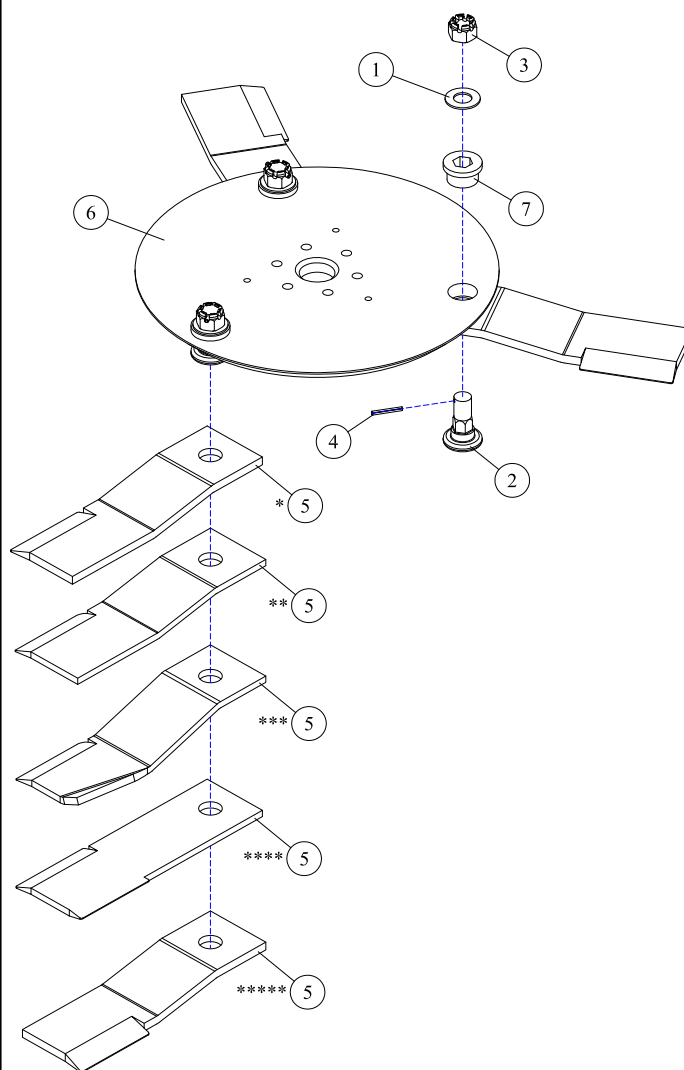


REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE BOLT - 1-1/8 KEYED	3	11-0503
2	1-1/8 NF NYLOCK NUT	3	11-1008
3	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL BLADE - 1/2"	3	22-0012
*****	50" BRUSH KNIFE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

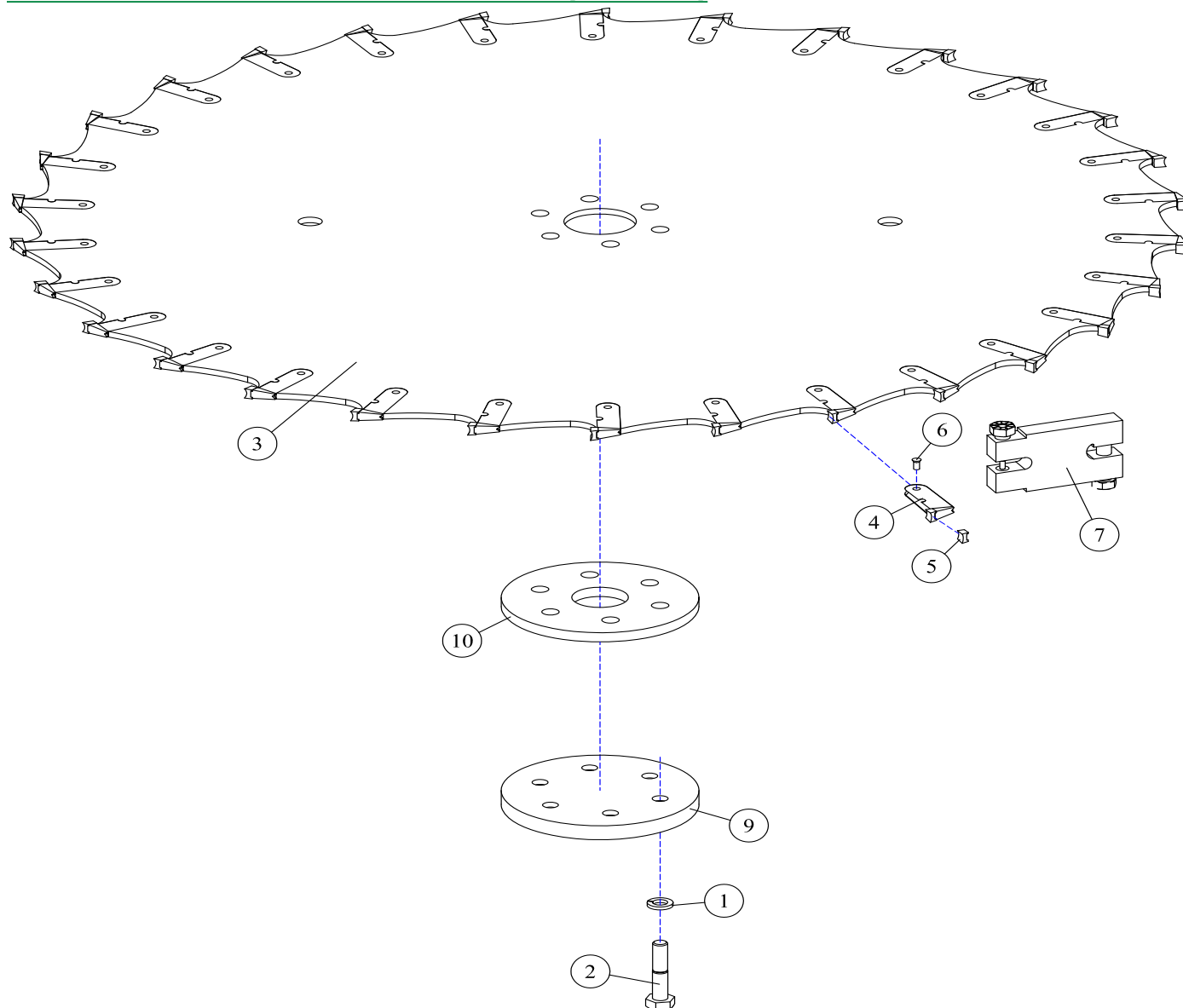
ROTARY HEADS - 50" BLADE CONFIGURATIONS



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



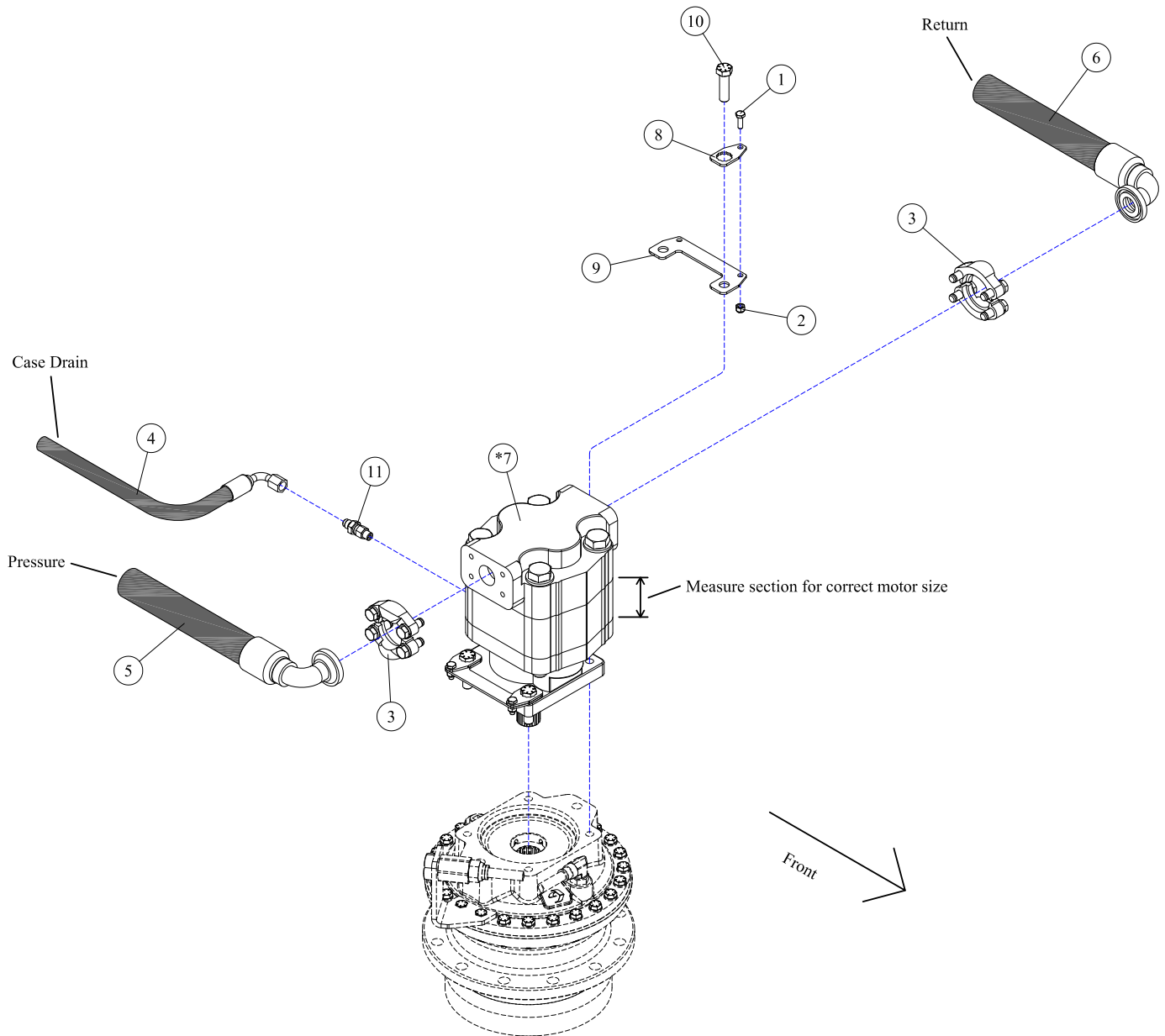
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH BLADE - 5/8"	3	22-0006
**	50" BRUSH KNIFE - 1/2"	3	22-0003
***	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
****	50" BI-DIRECTIONAL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

ROTARY HEADS - 50" SAW BLADE ATTACHMENT (OPTIONAL)

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

DRIVE ASSEMBLIES



DRIVE ASSEMBLIES - 50" BOOM ROTARY (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

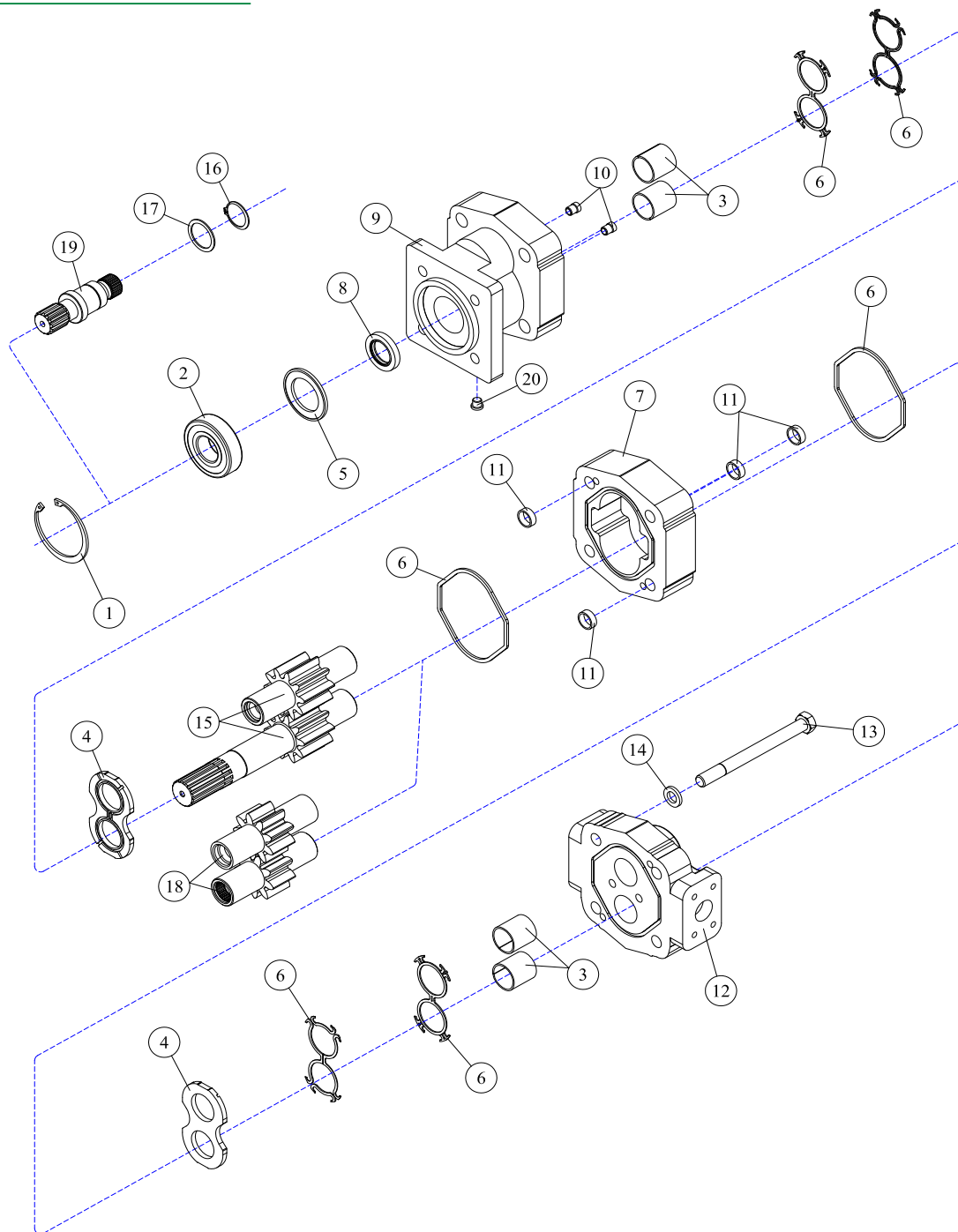
REF#	PARTS DESCRIPTION	REQ	PART #
* 7	MOTOR		
	M365, 1-1/4" GEAR SET, 1-3/4" SECT, 30-39 GAL/MIN	1	30-0532
	M365, 1-1/2" GEAR SET, 2" SECT, 40-45 GAL/MIN	1	30-0515
8	MOTOR BOLT LOCK TAB	4	31-0503
9	MOTOR BOLT LOCK BASE	2	31-0504
10	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
11	ADAPTER, 1/4MOR X 3/8MJIC	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

35-0093 - DIRECT DRIVE SPINDLE

REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING-CONE (TOP)	1	10-0094
2	BEARING-CUP (TOP)	1	10-0095
3	BEARING-CONE (BOTTOM)	1	10-0096
4	BEARING-CUP (BOTTOM)	1	10-0097
5	BOLT-HEX HEAD	24	11-1611
6	WASHER-FLAT	24	11-1612
7	RING-RETAINING	1	11-1613
8	NUT-LOCK	1	11-1614
9	WASHER-LOCK	1	11-1615
10	SCREW-SKT HD CAP	6	11-1616
11	PIPE PLUG (TO COVER) (MAGNETIC)	1	21-1609
12	PIPE PLUG (TO COVER) (NON-MAGNETIC)	1	21-1610
13	PIPE PLUG (TO HUB) (MAGNETIC)	2	21-1611
14	WASHER-THRUST (TOP)	1	35-0096
15	COUPLING	1	35-0097
16	PLATE-KEEPER	1	35-0098
17	WASHER-THRUST (BOTTOM)	1	35-0099
**18	HUB	1	35-0100
19	SEAL-OIL	1	35-0101
*20	GUARD	1	35-0102
**21	SHAFT-OUTPUT	1	35-0103
22	COVER		
	C BASE (STANDARD)	1	35-0094
	D BASE (OPTIONAL)	1	35-0095

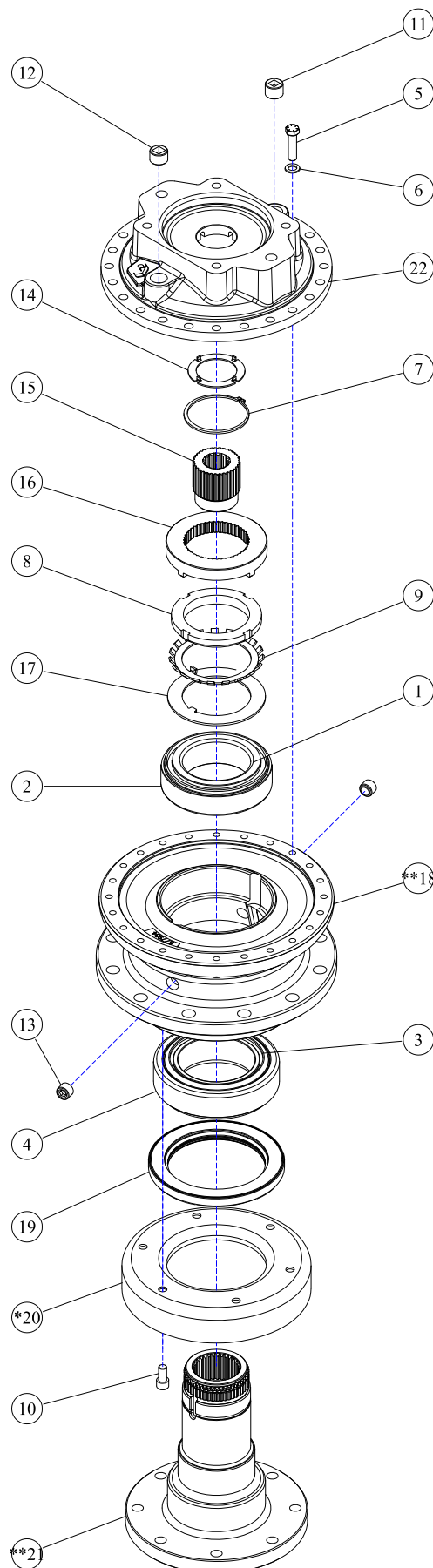
NOTE: WHEN ORDERING ANY ITEMS MARKED * ABOVE,
ALSO ORDER SERVICE KIT 33-0078

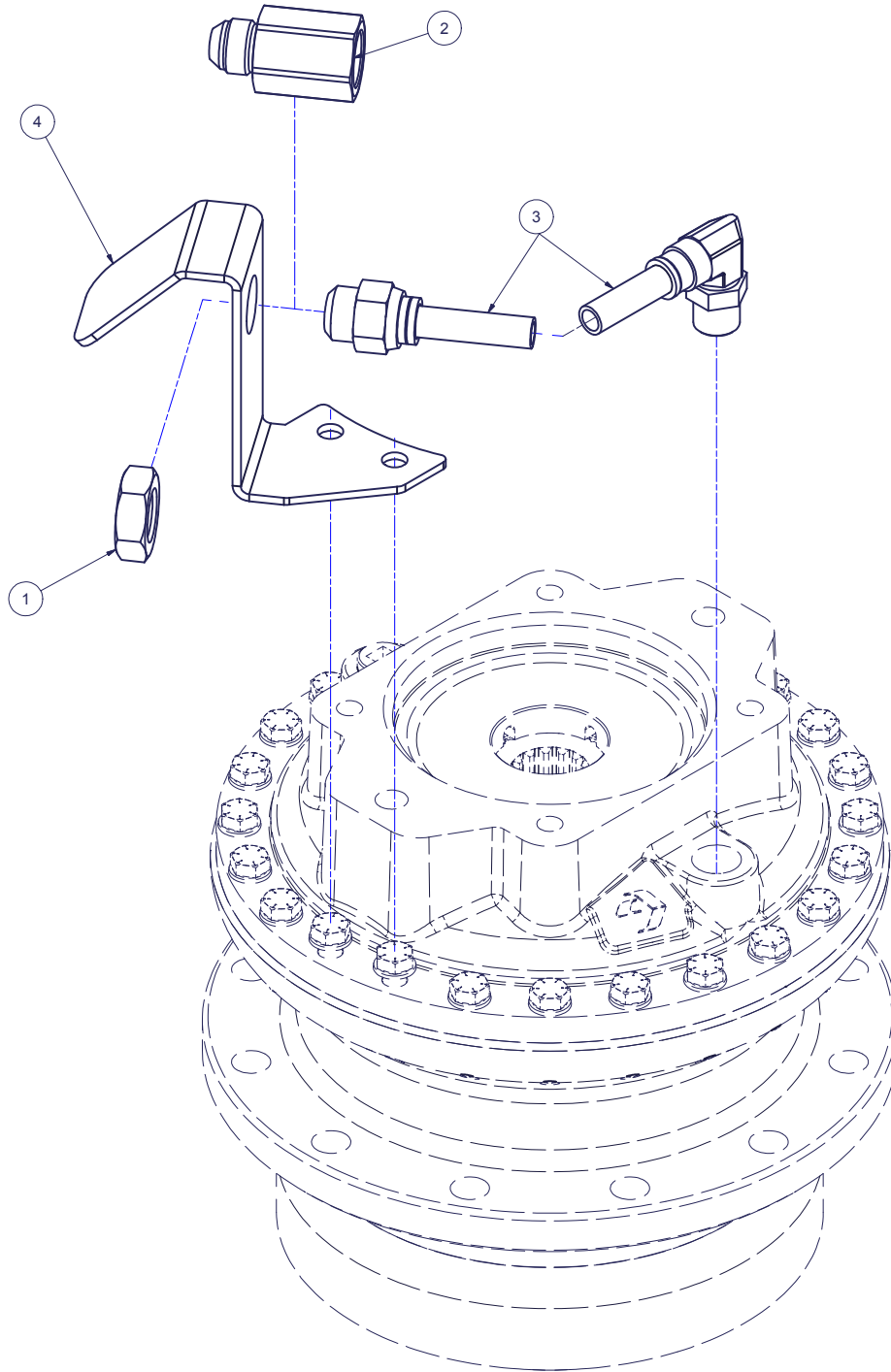
NOTE: WHEN ORDERING ANY ITEMS MARKED ** ABOVE,
ALSO ORDER SERVICE KIT 33-0079

SERVICE KITS

PART #	DESCRIPTION	INCLUDED ITEMS
33-0078	SEAL KIT	9, 19
33-0079	BEARING & SEAL KIT	1, 2, 3, 4, 9, 19
33-0080	COUPLER KIT	14, 15

KITS ALSO INCLUDE A TUBE OF SEALANT PART NO. 35-0104

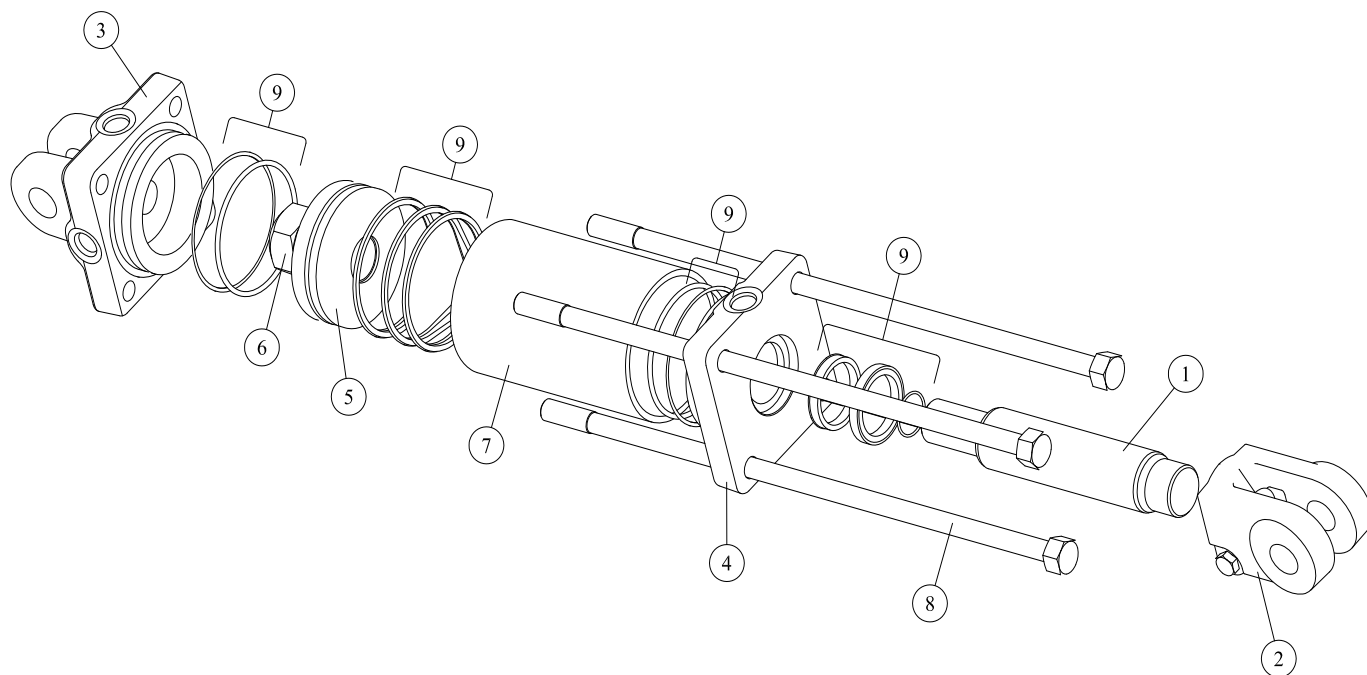


PRESSURE RELIEF VALVE - 35-0093 DIRECT DRIVE SPINDLE

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
1	7/8 UNF JAM NUT	1	11-1159		
2	JEMTEC D3 SPINDLE RELIEF VALVE	1	21-1653		
3	HOSE 1/2 X 8 (5/8 JIC - 1/2 MP 90 DEG SWIVEL)	1	21-2419		
4	D3 RELIEF VALVE MOUNT	1	31-0688		

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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**100% SATISFACTION
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**72-HOUR PARTS
SHIPPING GUARANTEE**