



PARTS BOOK

60" BOOM ROTARY HEADS

• *SPRING TRAP* • *SERIAL #XXXXX+* •

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 heron 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.



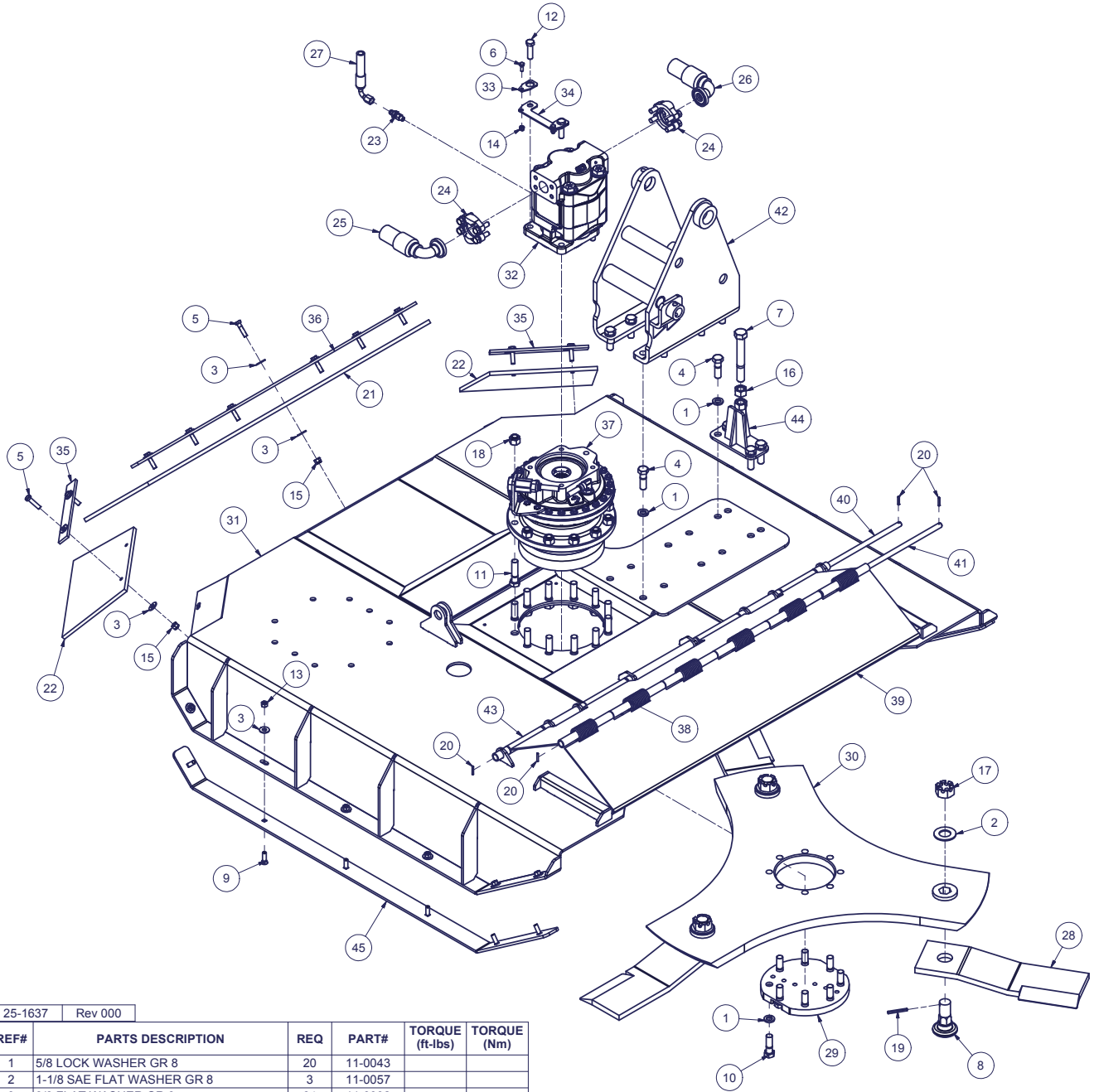
Table of Contents

ROTARY HEADS	4
ROTARY HEADS - 60" D3, SPRING TRAPDOOR	5
ROTARY HEADS - DECAL IDENTIFICATION	6
ROTARY HEADS - 60" BLADE CONFIGURATIONS	7
DRIVE ASSEMBLIES	9
DRIVE ASSEMBLIES - 60" BOOM ROTARY (WHEEL LOADER POWERED BOOM ONLY)	10
DECK ASSEMBLIES	11
30-0503 - MOTOR ASSEMBLY	12
30-0524 - MOTOR ASSEMBLY	13
35-0093 - DIRECT DRIVE SPINDLE	14
PRESSURE RELIEF VALVE - 35-0093 DIRECT DRIVE SPINDLE	15

ROTARY HEADS



ROTARY HEADS - 60" D3, SPRING TRAPDOOR



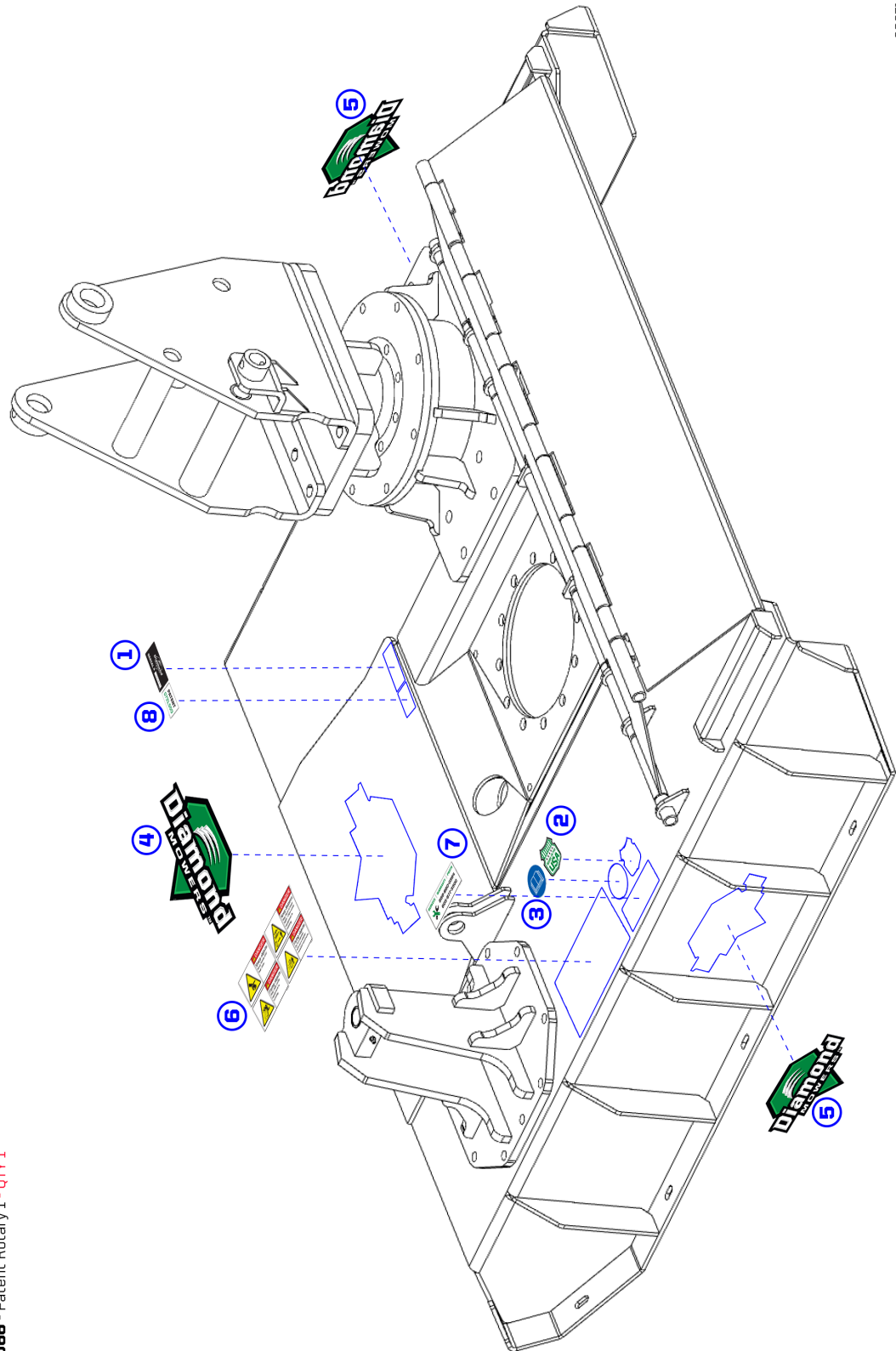
25-1637 Rev 000

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
1	5/8 LOCK WASHER GR 8	20	11-0043		
2	1-1/8 SAE FLAT WASHER GR 8	3	11-0057		
3	3/8 FLAT WASHER GR 8	34	11-0092		
4	5/8 X 2 NF HEX CAP GR 8	12	11-0508	211.9	287.3
5	3/8 X 1-1/2 NC HEX CAP	11	11-0529	30.9	41.9
6	1/4 X 3/4 NC HEX CAP	4	11-0588	8.5	11.5
7	3/4 X 5-1/2 NC HS HEX CAP	1	11-0700	376.0	509.8
8	D3 BLADE BOLT	3	11-0759	1444.0	1957.8
9	3/8 X 1-1/4 NC PLOW BOLT	12	11-0804	30.9	41.9
10	5/8 X 2 NC HEX CAP, GR 8	8	11-0970	211.9	287.3
11	5/8 X 2-1/2 NC HEX CAP, GR 8	12	11-0971	211.9	287.3
12	1/2 X 1-1/2 NC HEX CAP, GR. 8	4	11-0972	106.4	144.3
13	3/8 NC HEX NUT	12	11-1001		
14	1/4 NC NYLOCK NUT	4	11-1022		
15	3/8 NC NYLOCK NUT	11	11-1024		
16	3/4 NC HEX NUT	1	11-1033		
17	1-1/8-12 NF SLOTTED HEX NUT GR 8	3	11-1050		
18	5/8 NC NYLOCK NUT, GR. 8	12	11-1073		
19	ROLL PIN, 1/4" X 2"	3	11-2005		
20	ROLL PIN, 5/32" X 1"	4	11-2054		
21	60" D3 BOOM DECK CENTER FLAP	1	18-0069		
22	60" D3 BOOM DECK SIDE FLAP	2	18-0070		
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		

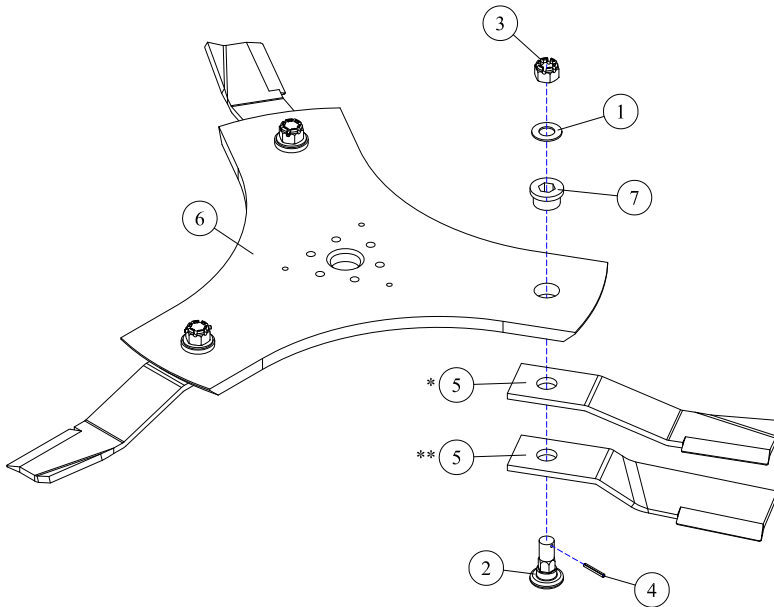
REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
27	HOSE 3/8 X 62 (3/8FJIC-90DEG X 1/2MJIC)	1	21-4304		
28	BRUSH BLADE - 5/8	3	22-0006		
29	BOLT PROTECTOR, 60 FBS, AUBURN	1	24-0224		
30	60 INCH TRI-HEX DISH D3	1	24-0298		
31	60 INCH D3 BOOM ROTARY	1	25-0331		
32	M365 2-1/4" GEAR, 14-SPLINE MOTOR	1	30-0524		
33	MOTOR TOP LOCK PLATE	4	31-0503		
34	V3LOCK BOTTOM	2	31-0504		
35	SIDE FLAP PLATE D3 60 INCH ROTARY	2	31-0660		
36	FLAP PLATE D3 60 INCH ROTARY	1	31-0661		
37	D3 SPINDLE, DIRECT DRIVE	1	35-0093		
38	SPRING, TRAP DOORS	6	36-0003		
39	SHIELD, DRB50 FRONT	1	41-0007		
40	REAR TRAP DOOR ROD	1	41-0009		
41	FRONT TRAP DOOR ROD	1	41-0010		
42	BOLT-ON MAST	1	41-0195-1		
43	REAR TRAP DOOR	1	41-1615		
44	BOLT ON DECK STOP	1	41-1685		
45	SKID SHOE 60 INCH D3 ROTARY	2	42-0060		

ROTARY HEADS - DECAL IDENTIFICATION

080718

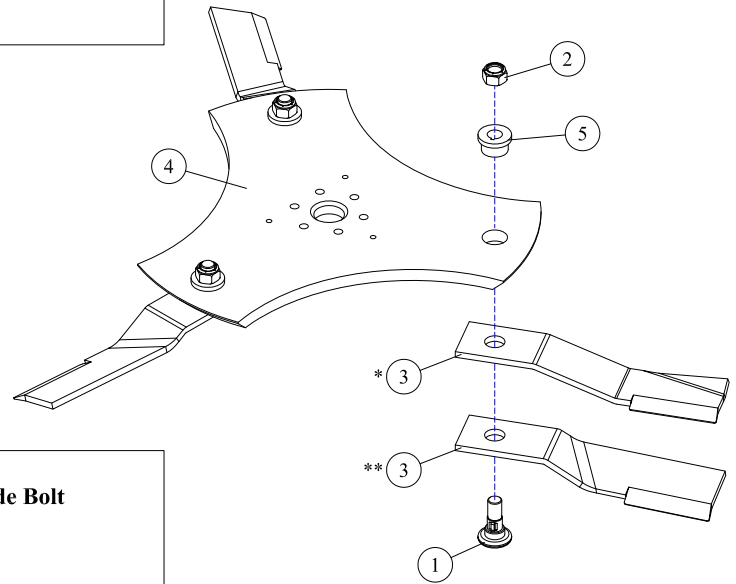
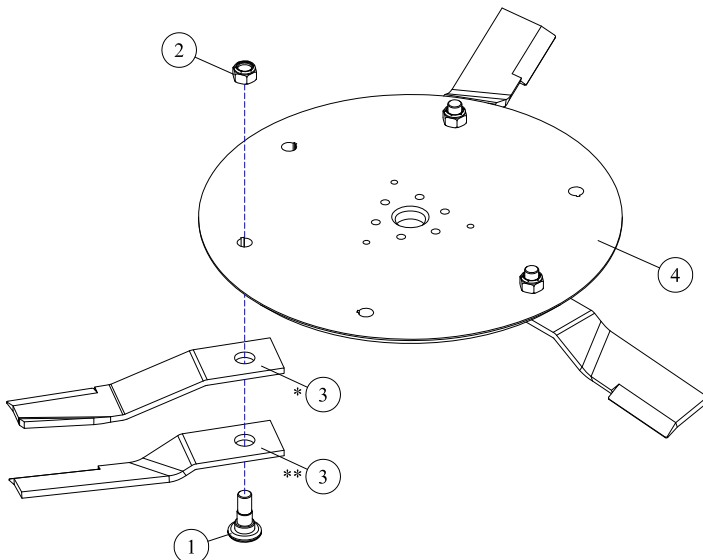


- 1 SERIAL NUMBER LABEL** - (not included in kit) - QTY 1
- 2 PART #15-0055** - Made In USA - QTY 1
- 3 PART #15-0058** - Read Manual - QTY 1
- 4 PART #15-0053** - Diamond Mowers Logo 13" - QTY 1
- 5 PART #15-0050** - Diamond Mowers Logo 7" - QTY 2
- 6 PART #15-0057** - Decal Group Horizontal - QTY 1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

ROTARY HEADS - 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

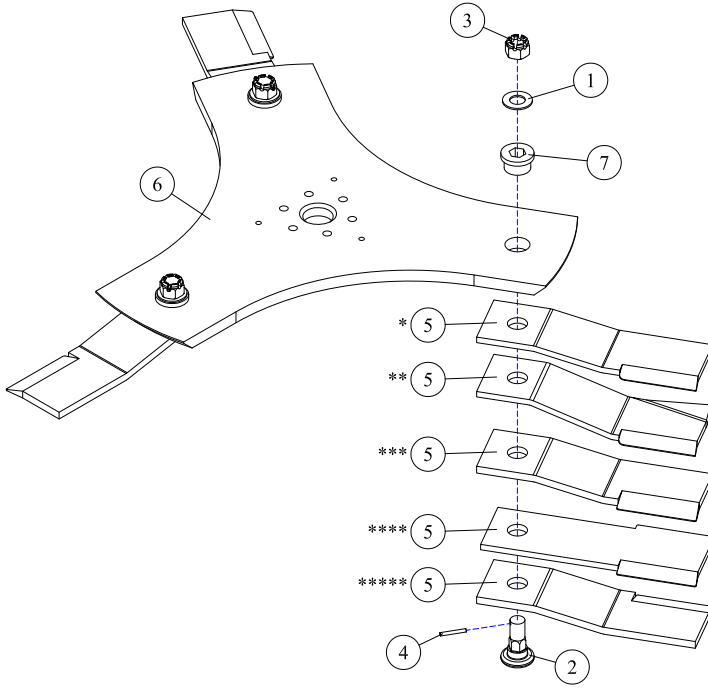
REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	KNIFE		
*	1/2" GRASS BLADE	3	22-0002
**	1/2" GRASS BLADE (HIGH SUCTION)	3	22-0004
4	BLADE DISH	1	24-0076
5	REPLACEABLE INSERT	Avail	90-7007

(24-0076) Tri-Blade Dish with 1 $\frac{1}{8}$ " Keyed Blade Bolt**(24-0001) Round Blade Dish with 1 $\frac{1}{8}$ " 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

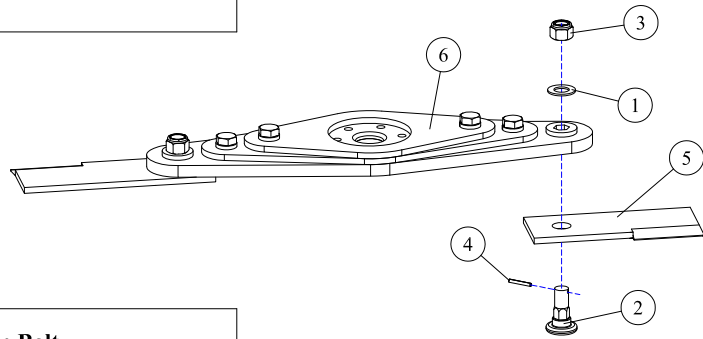
ROTARY HEADS - 60" BLADE CONFIGURATIONS

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



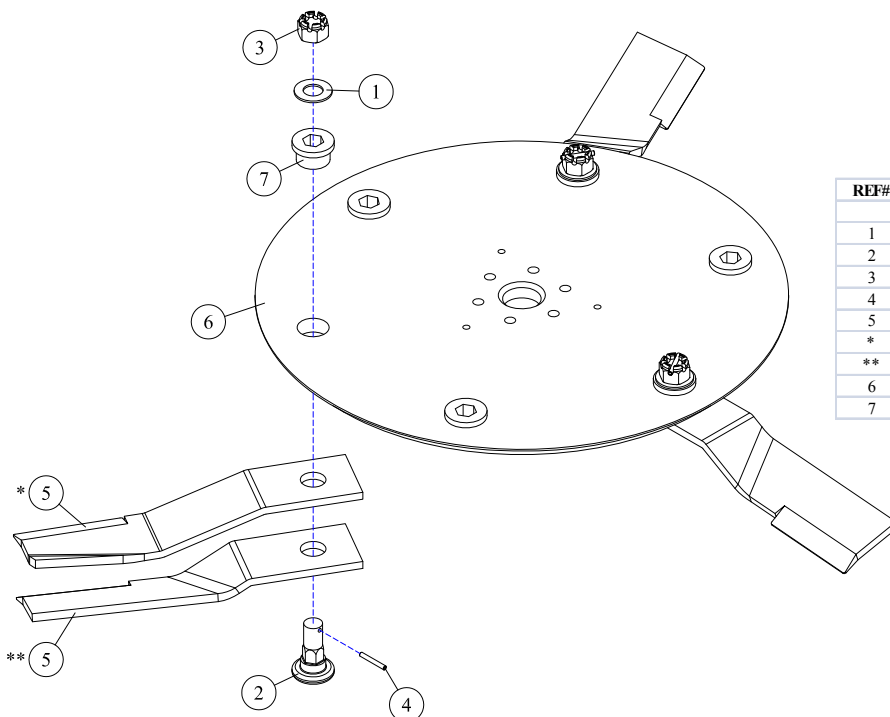
REF#	PARTS DESCRIPTION	REQ	PART #
1	1-1/8 H.S. FLAT WASHER	3	11-0057
2	BLADE MOUNTING BOLT	3	11-0759
3	BLADE MOUNTING NUT	3	11-1050
4	ROLLPIN	3	11-2005
5	KNIFE		
*	50" BRUSH KNIFE - 1/2"	3	22-0003
**	50" GRASS KNIFE, HIGH SUCTION - 1/2"	3	22-0005
***	50" BRUSH BLADE - 5/8"	3	22-0006
****	50" BI-DIRECTIONAL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

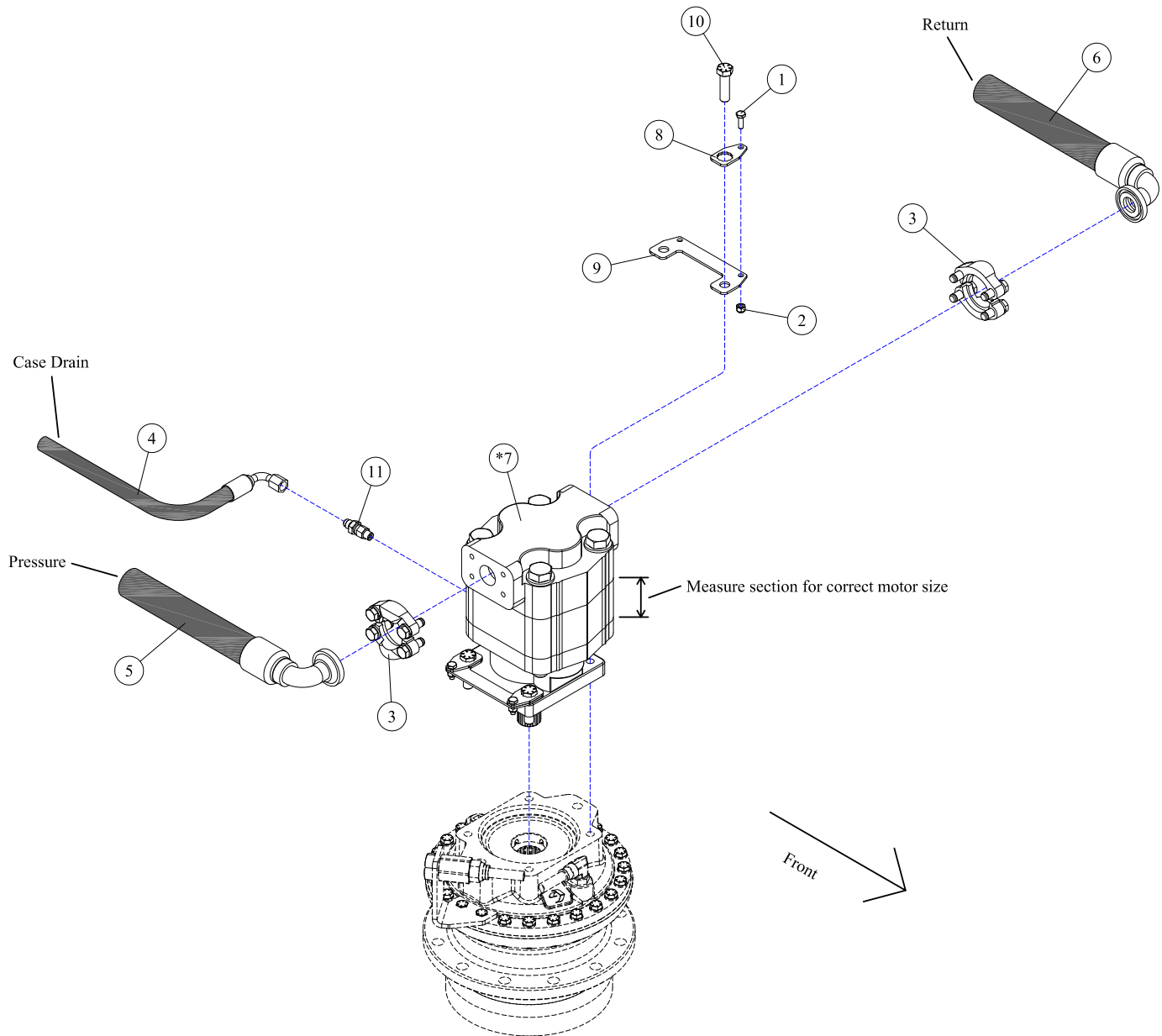
(24-0217) 60" 2-3 Blade Round Dish with Hex Blade Bolt



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

DRIVE ASSEMBLIES



DRIVE ASSEMBLIES - 60" 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

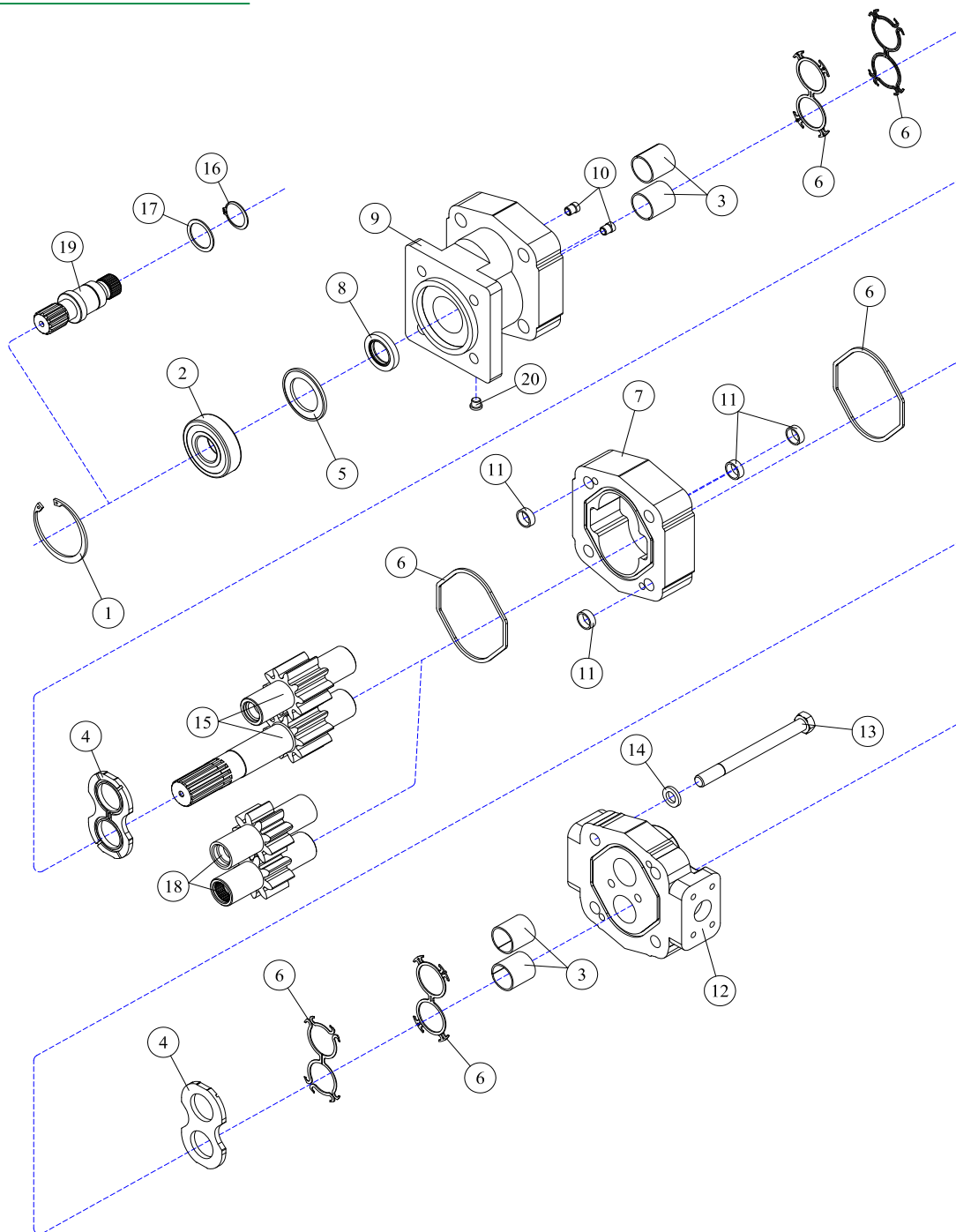
REF#	PARTS DESCRIPTION	REQ	PART #
* 7	MOTOR		
	M365, 1-3/4" GEAR SET, 2-1/4" SECT, 30-39 GAL/MIN	1	30-0503
	M365, 2-1/4" GEAR SET, 2-3/4" SECT, 40-45 GAL/MIN	1	30-0524
8	MOTOR BOLT LOCK TAB	4	31-0503
9	MOTOR BOLT LOCK BASE	2	31-0504
10	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
11	ADAPTER, 1/4MOR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

35-0093 - 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

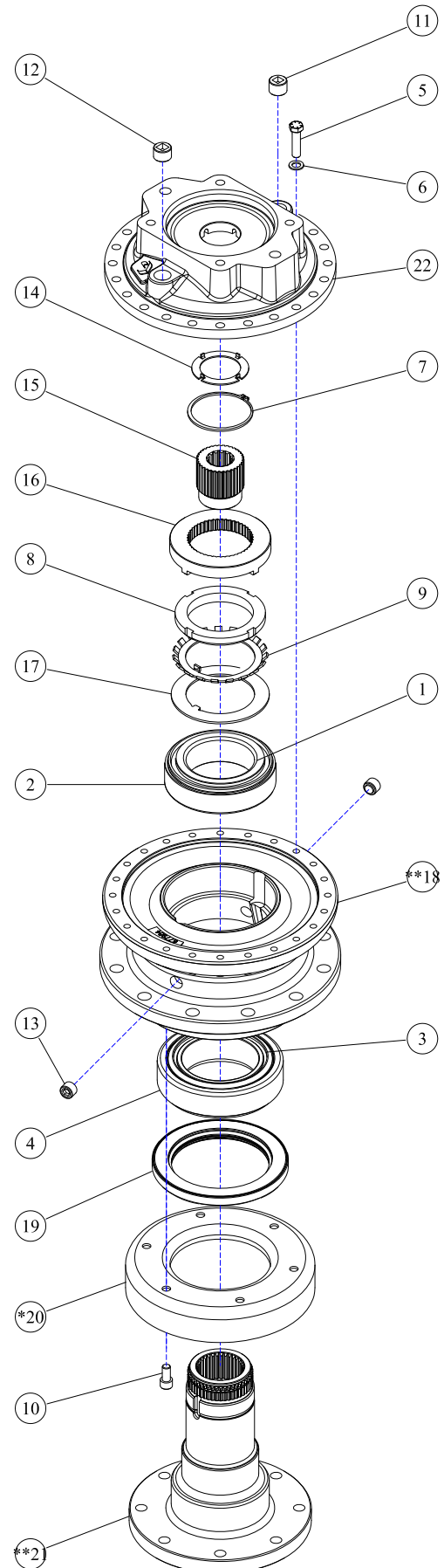
NOTE: WHEN ORDERING ANY ITEMS MARKED * ABOVE,
ALSO ORDER SERVICE KIT 33-0078

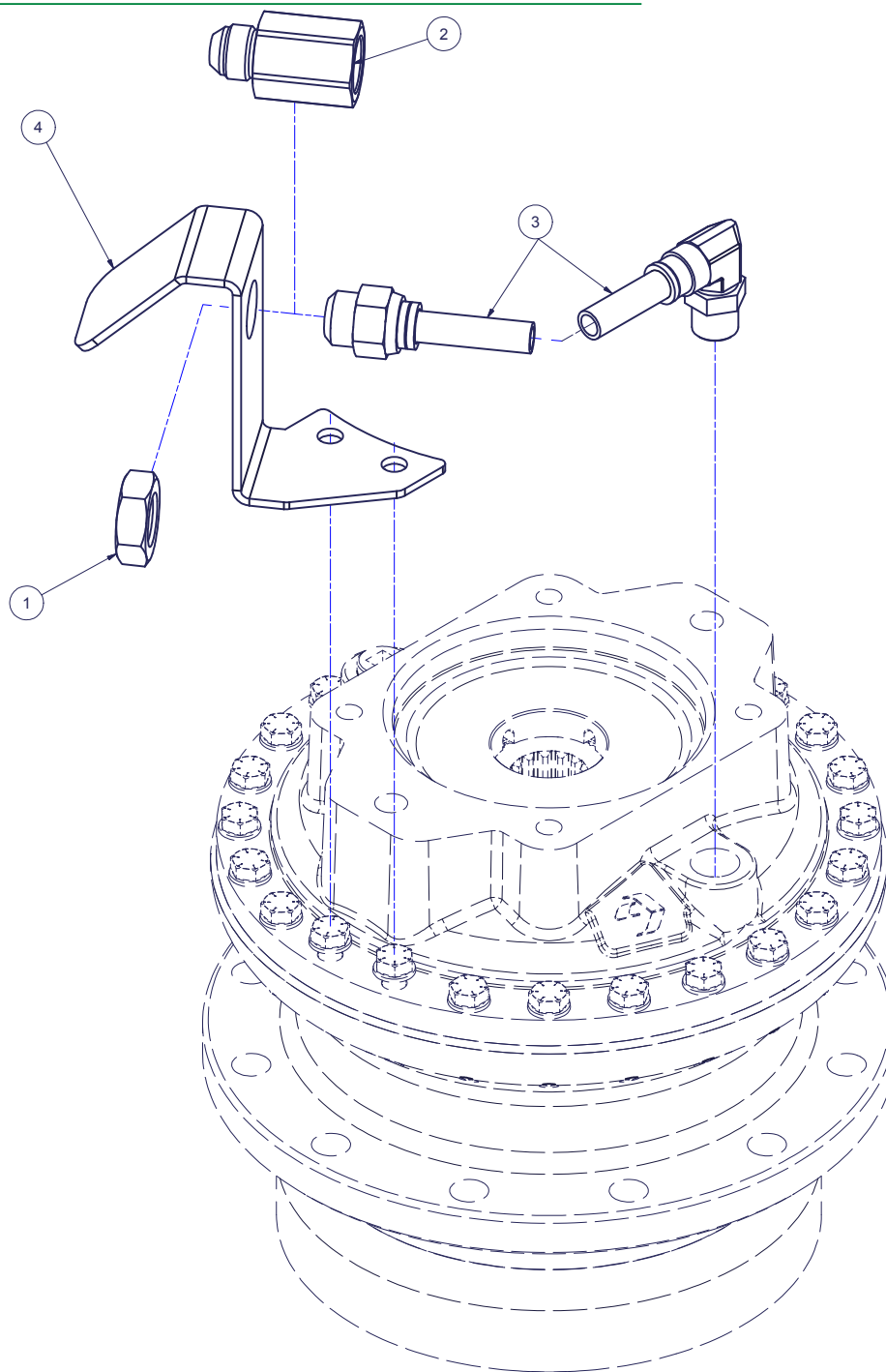
NOTE: WHEN ORDERING ANY ITEMS MARKED ** ABOVE,
ALSO ORDER SERVICE KIT 33-0079

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		



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

**72-HOUR PARTS
SHIPPING GUARANTEE**