



PARTS BOOK

ROTARY HEADS

• 72" CUT • COMBO MID-MOUNT • 5.10.18 •

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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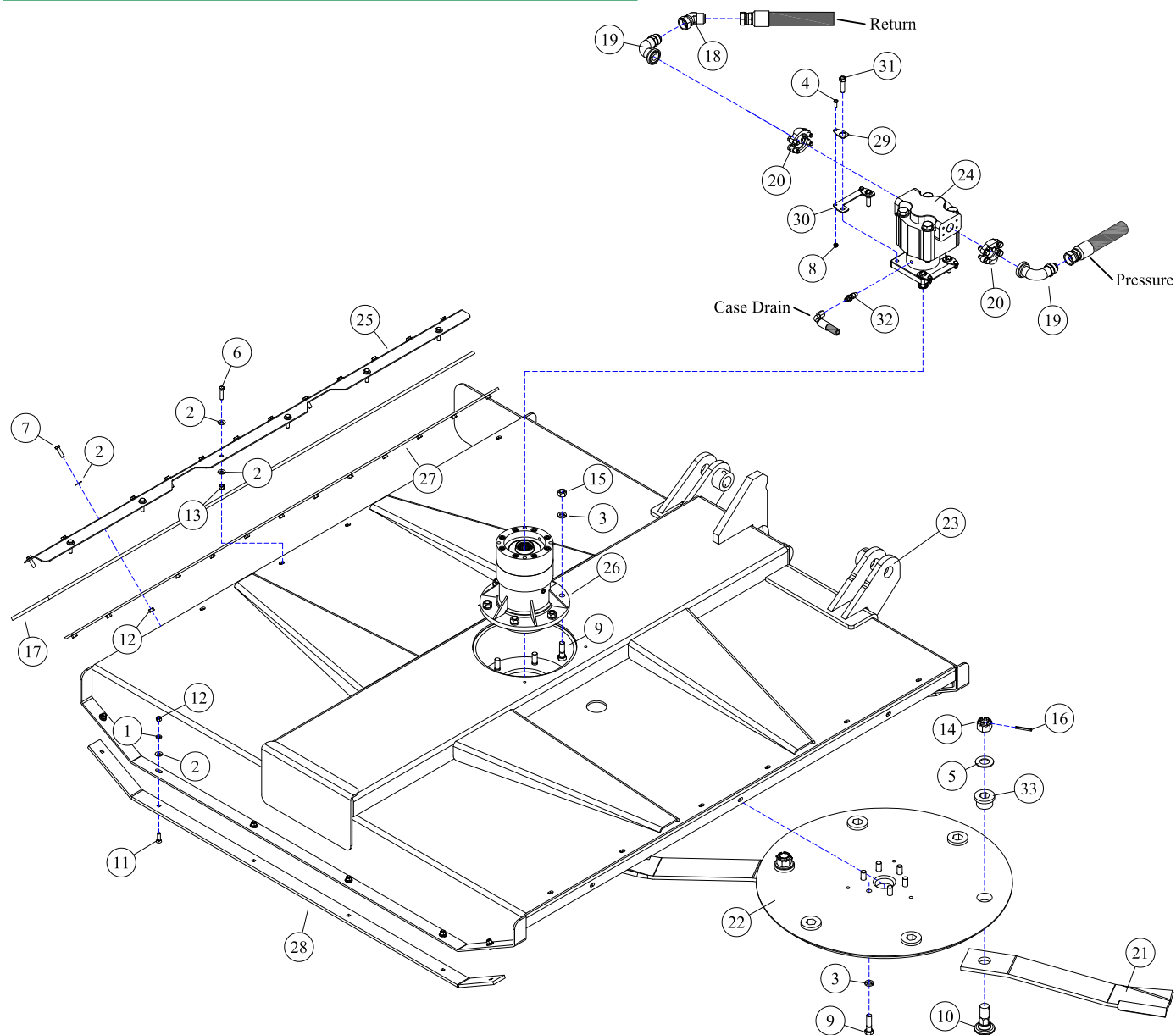


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ROTARY HEADS



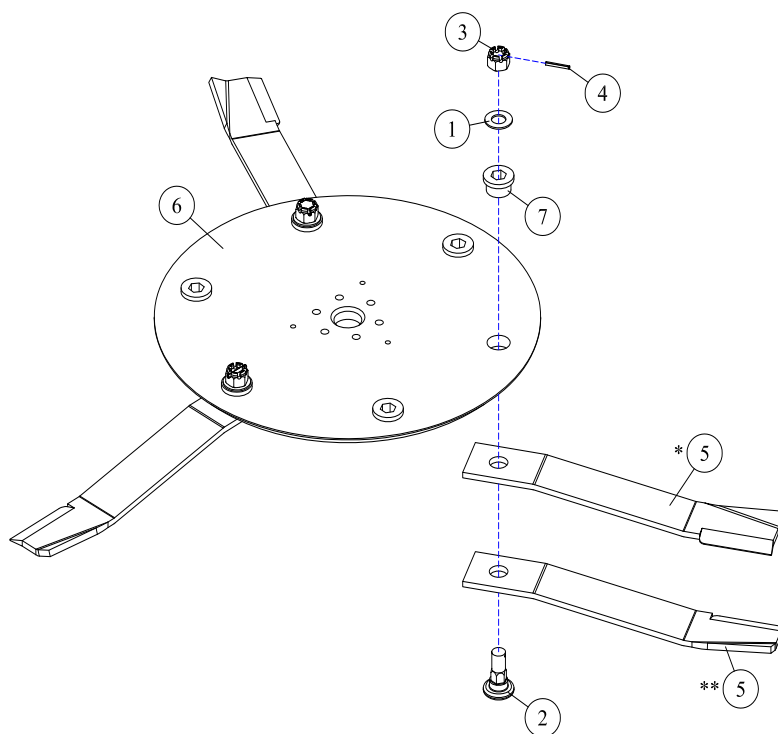
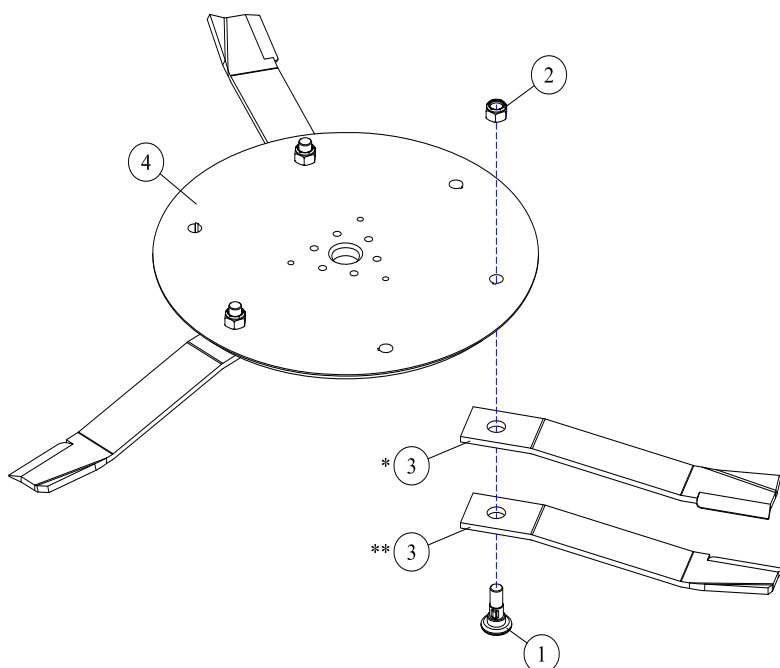
SIDE ROTARY HEAD - 72" COMBO DECK, DIRECT DRIVE

REF#	PARTS DESCRIPTION	REQ	PART #
1	3/8 LOCK WASHER	12	11-0005
2	5/16 FLAT WASHER	37	11-0015
3	5/8 H.S. LOCK WASHER	12	11-0043
4	1/4 X 3/4 NC HEX CAP	4	11-0588
5	1-1/8 H.S. FLAT WASHER	2 - 6	11-0057
6	3/8 X 1-1/2 NC HEX CAPSCREW	6	11-0529
7	3/8 X 1-1/4 NC HEX CAPSCREW	13	11-0533
8	1/4 NC NYLOCK NUT	4	11-1022
9	5/8 X 2-1/4 H.S. NF HEX CAPSCREW	12	11-0691
10	BLADE BOLT - HEX BASE	2 - 6	11-0759
11	3/8 X 1-1/4 NC PLOW BOLT	12	11-0804
12	3/8 NC HEX NUT	25	11-1001
13	3/8 NC NYLOCK NUT	6	11-1024
14	1-1/8 NF CASTLE NUT	2 - 6	11-1050
15	5/8 H.S. NF STOVER NUT	6	11-1143
16	ROLLPIN	2 - 6	11-2005
17	FLAP	1	18-0010
18	1MJ X 1FJX-45DEG FITTING	1	21-1145
19	ADAPTER, #20 FLG X 1MJIC-90DEG	2	21-1267
20	#20 FLANGE KIT	2	21-2105
21	72" ROTARY KNIFE	2 - 6	22-0001

REF#	PARTS DESCRIPTION	REQ	PART #
22	60" 2-3 BLADE ROUND DISH (for hex bolts)	1	24-0217
23	72" DECK SHELL	1	25-0058
24	MOTOR M365	1	30-0518
25	FLAP BAR PLATE	1	31-0055
26	HEAVY DUTY SPINDLE	1	35-0088
27	FLAP BAR	1	41-0359
28	SKID SHOE	2	42-0001
29	MOTOR BOLT LOCK TAB	4	31-0503
30	MOTOR BOLT LOCK BASE	2	31-0504
31	1/2-20 X 1-3/4 H.S. NF HEX CAP GR.8	4	11-0664
32	ADAPTER, 1/4MOR X 3/8MJIC	1	21-1597
33	REPLACEABLE HEX INSERT	Avail	90-7010
34	BLADE KITS)		
	72" SIDE ONLY		
	Includes 5, 10, 14, 16, & 21	1	44-0233
	72" SIDE & 72" REAR		
	Includes 5, 10, 14, 16, & 21	1	44-0236
	60" SIDE & 72" REAR		
	Includes 5, 10, 14, 16, 21, & #22-0004 for the 60"	1	44-0235
	72" SIDE & 60" REAR		
	Includes 5, 10, 14, 16, 21, & #22-0004 for the 60"	1	44-0235

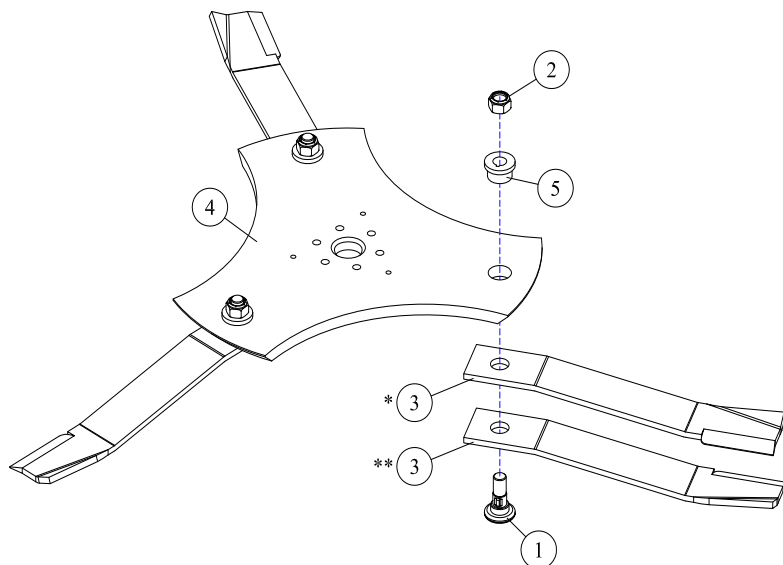
SIDE ROTARY HEAD - 72" BLADE CONFIGURATIONS**(24-0217) Round Blade Dish with Hex Blade Bolt**

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		
*	72" ROTARY KNIFE	3	22-0001
**	72" REVERSE ROTARY KNIFE	3	22-0011
6	60" 2-3 BLADE ROUND DISH (for hexbolts)	1	24-0217
7	REPLACEABLE HEX INSERT	Avail	90-7010

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

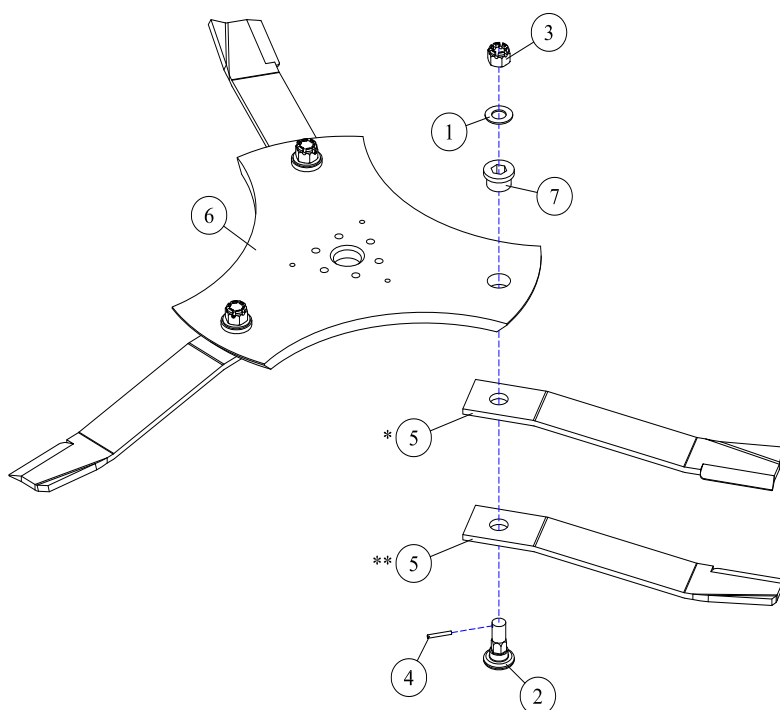
REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	KNIFE		
*	72" ROTARY KNIFE	3	22-0001
**	72" ROTARY KNIFE (REVERSE ROTATION)	3	22-0011
4	60" ROUND DISH	1	24-0001

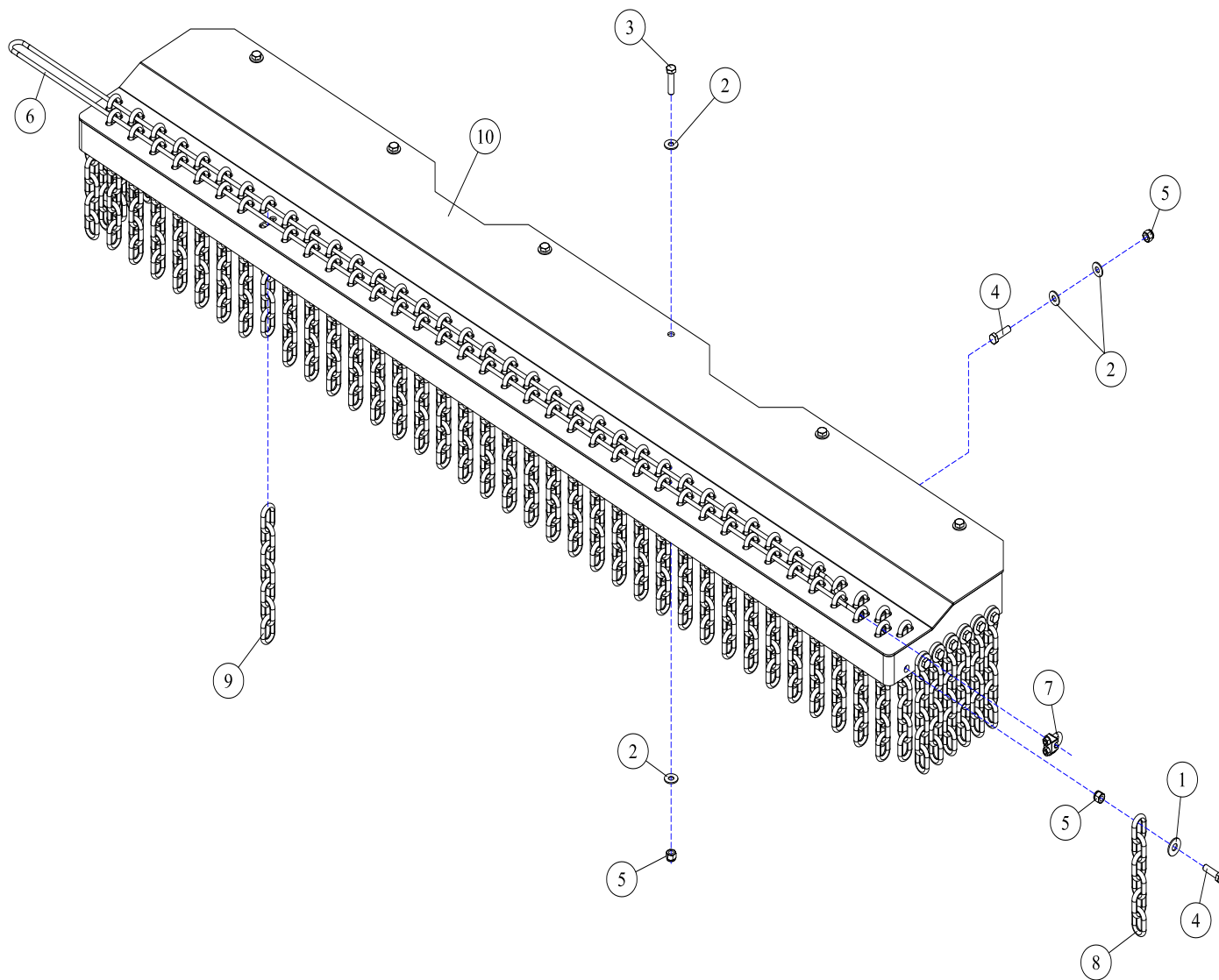
(24-0076) Tri-Blade Dish with 1 $\frac{1}{8}$ " Keyed Blade Bolt



REF#	PARTS DESCRIPTION	REQ	PART #
1	BLADE MOUNTING BOLT	3	11-0503
2	BLADE MOUNTING NUT	3	11-1008
3	<u>KNIFE</u>		
*	72" ROTARY KNIFE	3	22-0001
**	72" ROTARY KNIFE (REVERSE ROTATION)	3	22-0011
4	D2 60" TRI-HEX DISH	1	24-0076
5	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	<u>KNIFE</u>		
*	72" ROTARY KNIFE	3	22-0001
**	72" ROTARY KNIFE (REVERSE ROTATION)	3	22-0011
6	D3 60" TRI-HEX DISH	1	24-0086
7	REPLACEABLE HEX INSERT	Avail	90-7010



SIDE ROTARY HEAD - 72" CHAIN GUARD ATTACHMENT

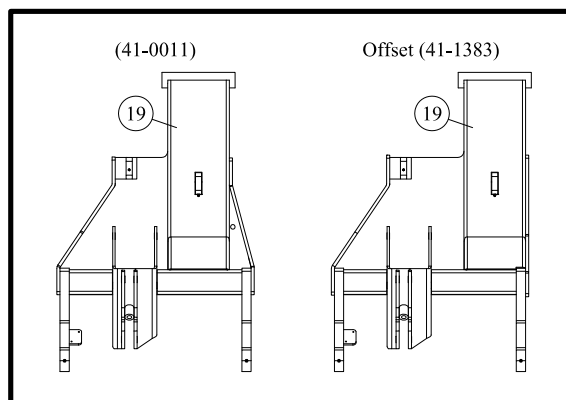
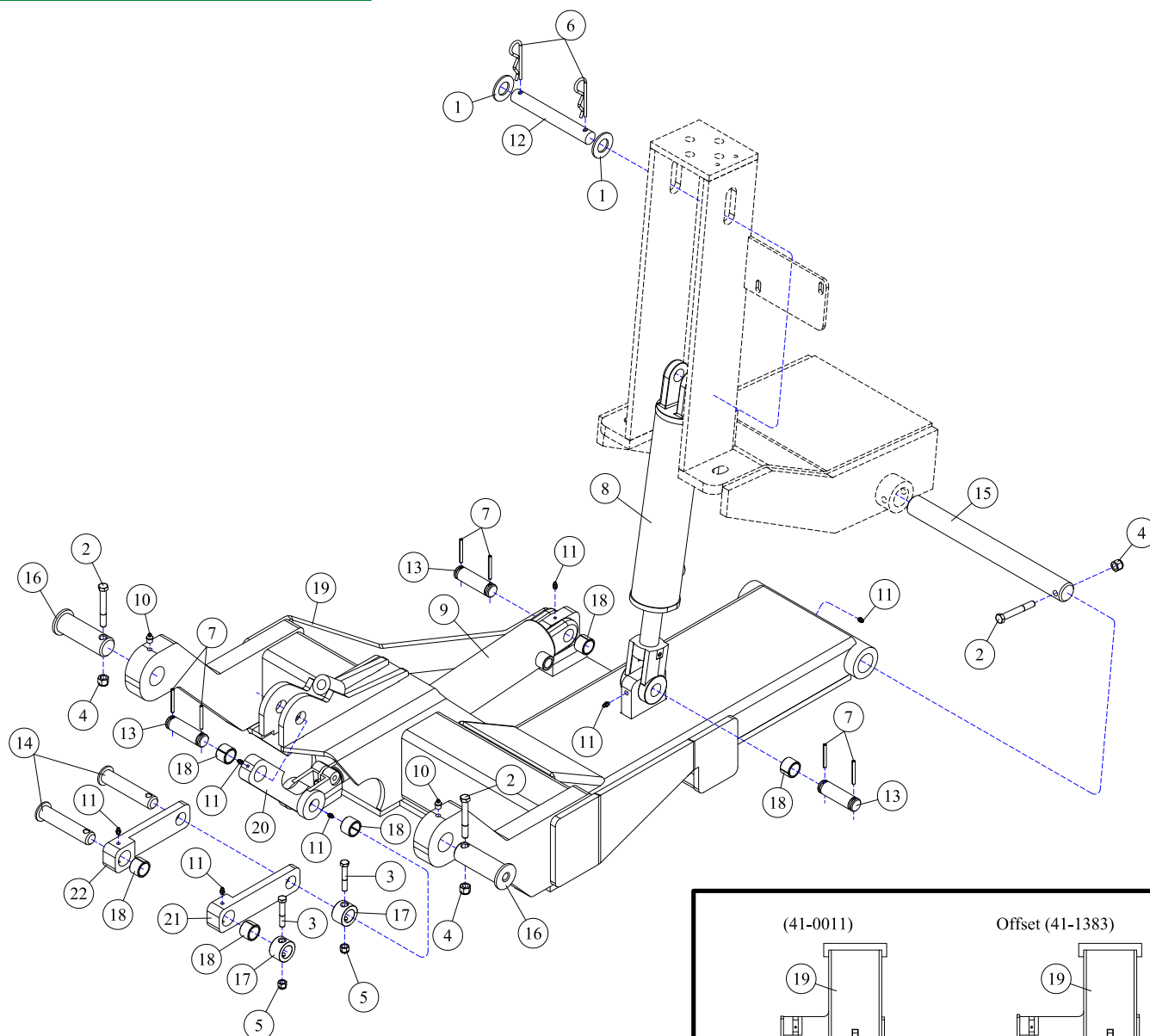
Note: Side chains not required on mower's left side when mounted on rear of mower.

Note: Use part # 45-0099 to order complete 72" chain guard.

REF#	PARTS DESCRIPTION	REQ	PART #
1	3/8 FLAT WASHER	14	11-0009
2	5/16 FLAT WASHER	18	11-0015
3	3/8 X 1-1/2 NC HEX CAP	6	11-0529
4	3/8 X 1-1/4 NC HEX CAP	17	11-0533
5	3/8 NC NYLOCK NUT	23	11-1024
6	GALVANIZED CABLE (SOLD PER FOOT)	13ft	12-0032
7	1/4" WIRE ROPE CLAMP	1	12-0033
8	5/16" ZINC CHAIN - 6 LINKS	14	12-0035
9	5/16" ZINC CHAIN - 7 LINKS	73	12-0036
10	CHAIN GUARD	1	41-0196

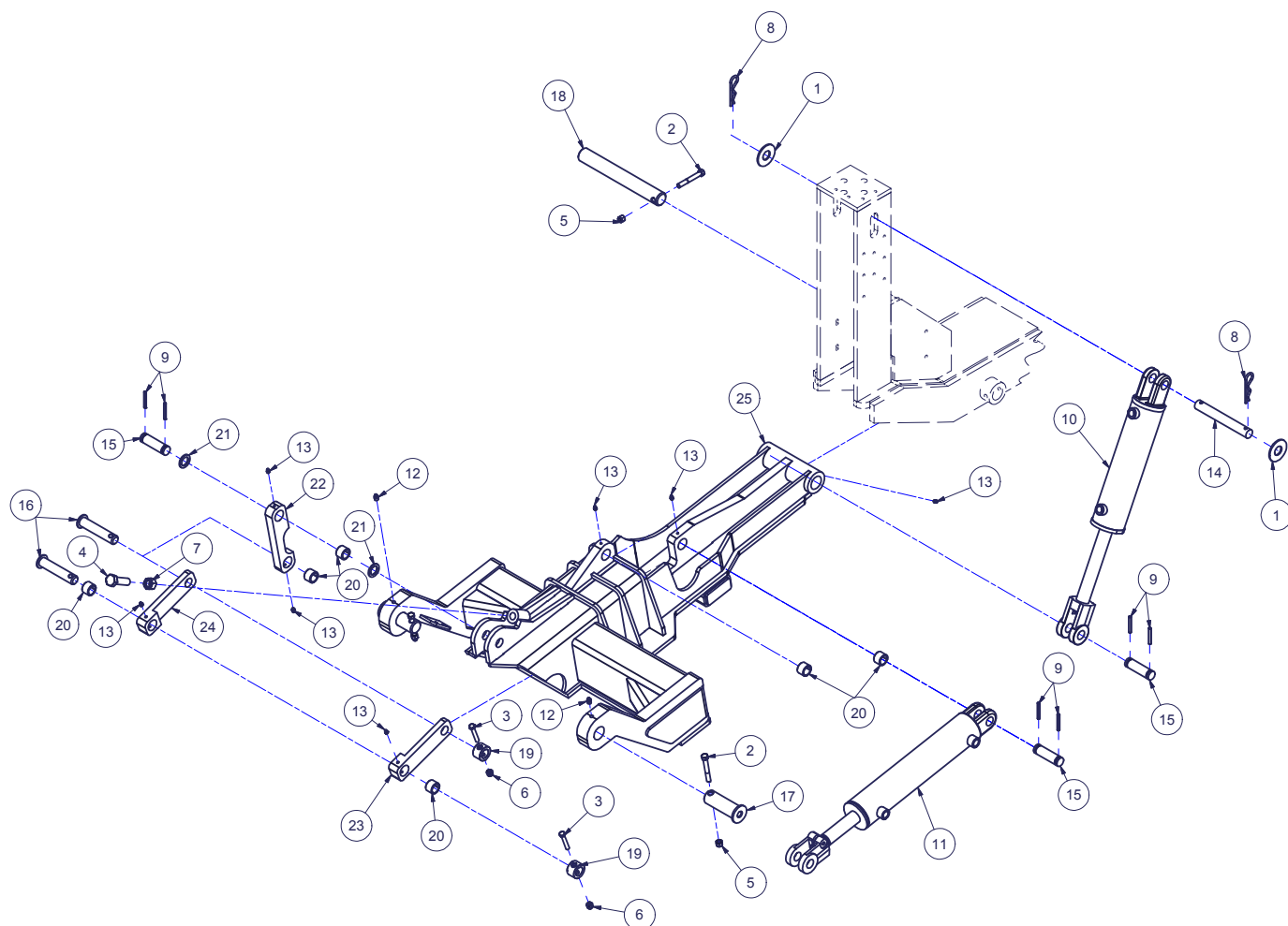
DRAFT BEAM ASSEMBLIES



DRAFT BEAM - COMBO LIFT, STD

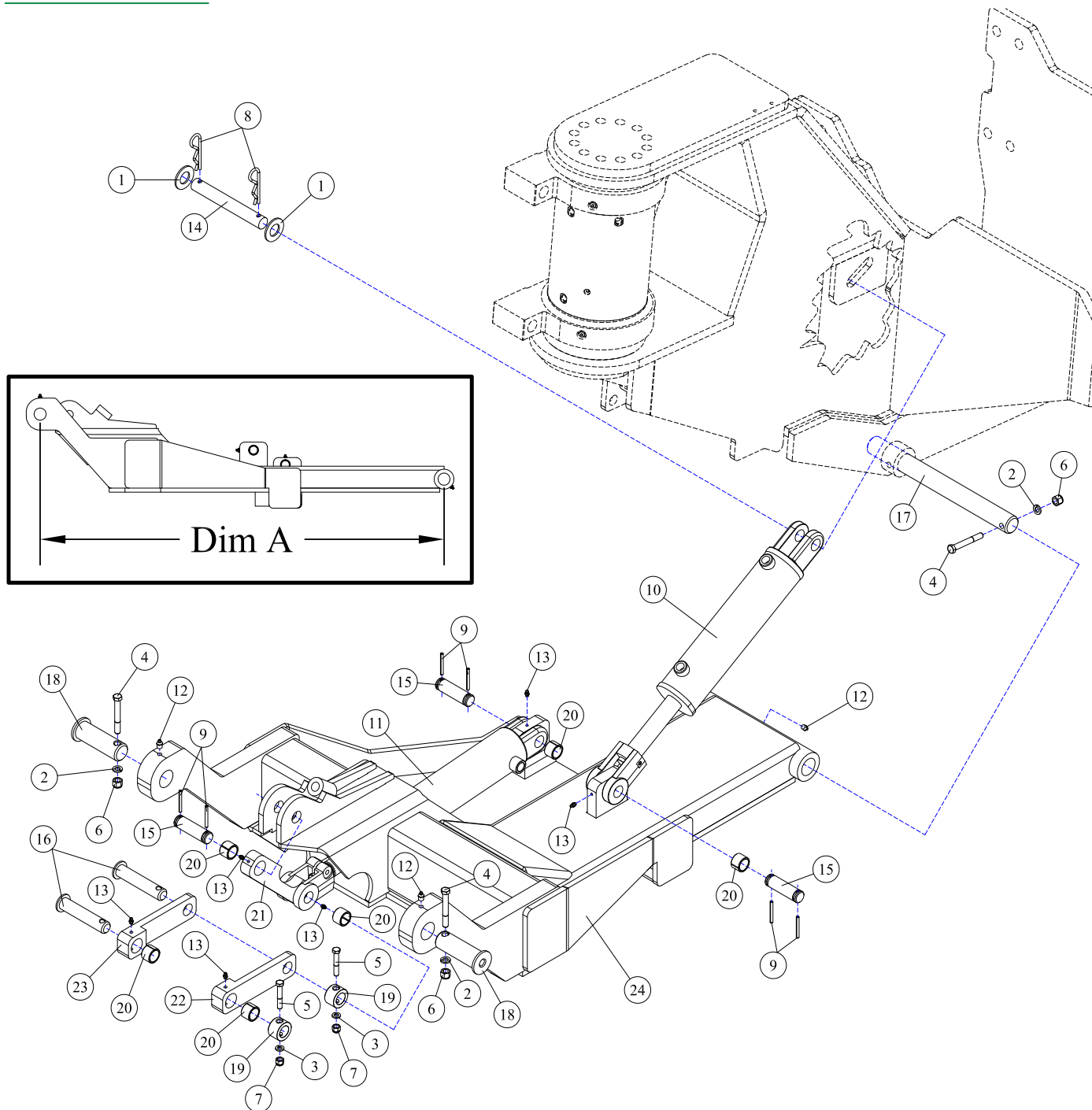
REF#	PARTS DESCRIPTION	REQ	PART #
1	1 FLAT WASHER	2	11-0001
2	7/16 X 3-1/4 NC HEX CAPSCREW	3	11-0510
3	3/8 X 2-1/4 NC HEX CAPSCREW	2	11-0513
4	7/16 NC NYLOCK NUT	3	11-1003
5	3/8 NC NYLOCK NUT	2	11-1024
6	R-CLIP	2	11-2001
7	1/4 X 2 ROLL PIN	6	11-2005
8	3 X 10 WELDED CYLINDER	1	14-0001
9	3 X 12 WELDED CYLINDER	1	14-0004
10	1/8 GREASE ZERK	2	23-0003
11	1/4 GREASE ZERK	7	23-0004
12	1 X 7 PIN	1	27-0003

REF#	PARTS DESCRIPTION	REQ	PART #
13	CLEVIS PIN	3	27-0004
14	LINKAGE PIN	2	27-0009
15	DRAFT BEAM/MAIN FRAME PIN	1	27-0502
16	EAR PIN	2	27-0509
17	BOSS	2	34-0002
18	HARDENED BUSHING	6	34-0005
19	DRAFT BEAM		
	COMBO DRAFT BEAM	1	41-0011
	COMBO DRAFT BEAM, 4" REAR OFFSET	1	41-1383
20	PIVOT ARM	1	41-0025
21	LINKAGE ARM LEFT	1	41-0026
22	LINKAGE ARM RIGHT	1	41-0027

DRAFT BEAM - COMBO LIFT, NARROW

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)	TORQUE (Nm)
1	1 FLAT WASHER GR 5	2	11-0001		
2	7/16 X 3-1/4 NC HEX CAP GR 5	3	11-0510	49.4	67.0
3	3/8 X 2-1/4 NC HEX CAP GR 5	2	11-0513	30.9	41.9
4	3/4 X 2-1/2 NC HEX CAPSCREW	1	11-0563	267.0	362.0
5	7/16 NC NYLOCK NUT	3	11-1003		
6	3/8 NC NYLOCK NUT	2	11-1024		
7	3/4 NC HEX NUT	1	11-1033		
8	3/16 R-CLIP	2	11-2001		
9	1/4" ROLL PIN x 2"	6	11-2005		
10	3 X 10 WELDED CYLINDER	1	14-0001		
11	3 X 12 WELDED CYLINDER, SLUGGED	1	14-0004		
12	GREASE ZERK 1/8" STRAIGHT	2	23-0003		
13	GREASE ZERK 1/4" STRAIGHT	7	23-0004		
14	PIN 1 X 7-5/8	1	27-0003		
15	CYLINDER PIN, 3-1/2"	3	27-0004		
16	LINKAGE PIN	2	27-0009		
17	PIN 1-1/2 X 4-1/2 CAP	2	27-0509		
18	SWING FLAIL PIN 1.5 X 11.75	1	27-0515		
19	LINKAGE BOSS	2	34-0002		
20	BUSHING	6	34-0005		
21	1-1/2OD X 1ID X 10GA BUSHING	2	34-0060		
22	PIVOT LINKAGE	1	41-0025		
23	LINKAGE ARM LEFT COMBO DRAFT BEAM LINKAGE LEFT	1	41-0026		
24	LINKAGE ARM RIGHT COMBO DRAFT BEAM LINKAGE RIGHT	1	41-0027		
25	COMBO DRAFT BEAM, 11.25 FORWARD OFFSET	1	41-1429		

DRAFT BEAM - DX2

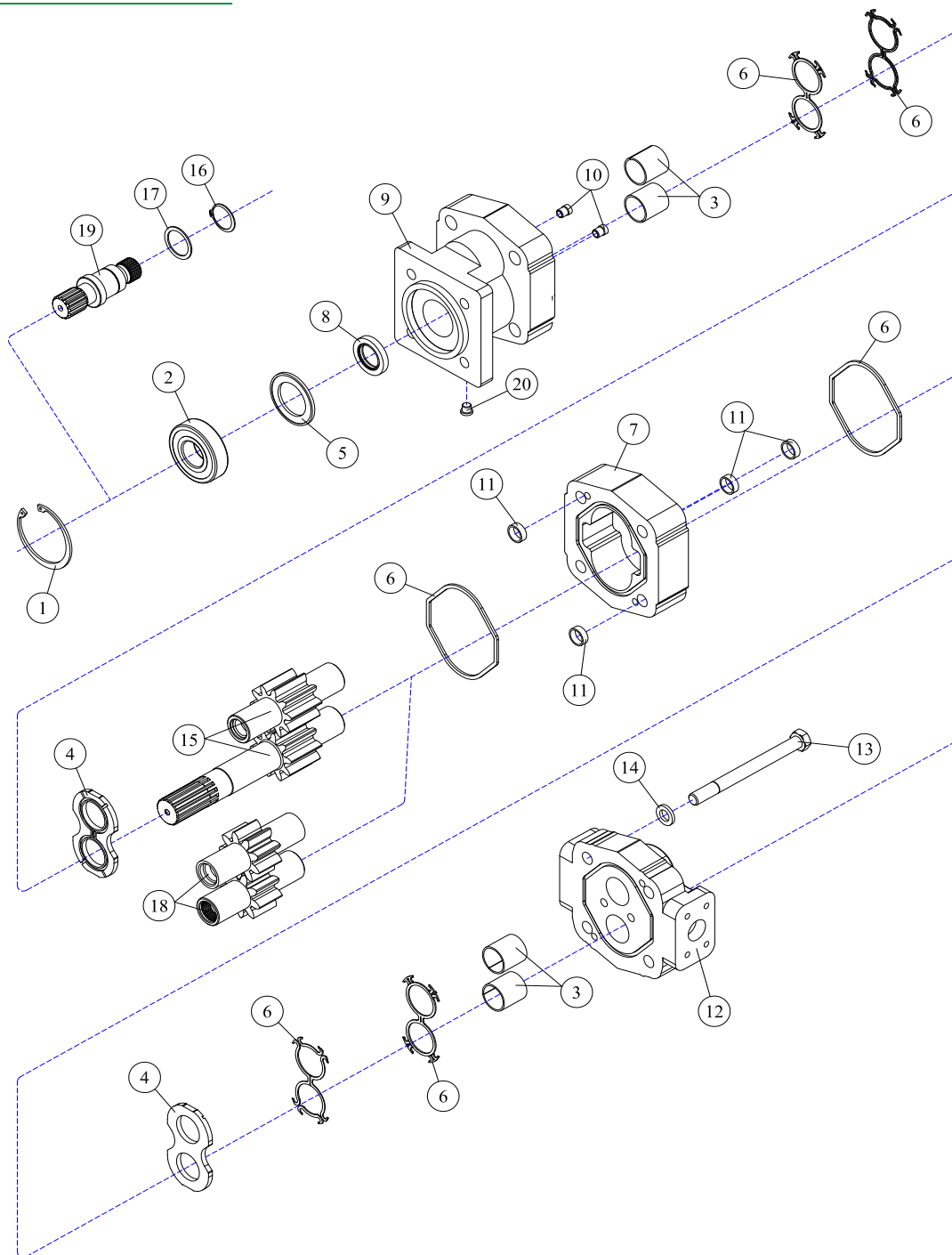


REF#	PARTS DESCRIPTION	REQ	PART #
1	1 FLAT WASHER	2	11-0001
2	7/16 LOCK WASHER	3	11-0003
3	3/8 LOCK WASHER	2	11-0005
4	7/16 X 3-1/4 NC HEX CAPSCREW	3	11-0510
5	3/8 X 2-1/4 NC HEX CAPSCREW	2	11-0513
6	7/16 NC NYLOCK NUT	3	11-1003
7	3/8 NC NYLOCK NUT	2	11-1024
8	R-CLIP	2	11-2001
9	1/4 X 2 ROLL PIN	6	11-2005
10	3 X 10 WELDED CYLINDER	1	14-0001
11	3 X 12 WELDED CYLINDER	1	14-0004
12	1/8 GREASE ZERK	3	23-0003
13	1/4 GREASE ZERK	6	23-0004

REF#	PARTS DESCRIPTION	REQ	PART #
14	1 X 7 PIN	1	27-0003
15	CLEVIS PIN	3	27-0004
16	LINKAGE PIN	2	27-0009
17	DRAFT BEAM/MAIN FRAME PIN	1	27-0502
18	EAR PIN	2	27-0509
19	BOSS	2	34-0002
20	HARDENED BUSHING	6	34-0005
21	PIVOT ARM	1	41-0025
22	LINKAGE ARM LEFT	1	41-0026
23	LINKAGE ARM RIGHT	1	41-0027
24	DRAFT BEAM		
	ROTARY, DIM A = 51-1/32"	1	41-1037
	FLAIL, DIM A = 60-25/32"	1	41-1038

DECK ASSEMBLIES



30-0518 - 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	2-1/2" M365 GEAR HOUSING	1	30-1137
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	30-1334
14	WASHER	4	30-1093
	GEAR SET OPTION A:		
15	2-1/2" GEAR SET	1	30-1170
	GEAR SET OPTION B:		
16	RETAINING RING	1	30-1019
17	WASHER	1	30-1020
18	2-1/2" GEAR SET	1	30-1136
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

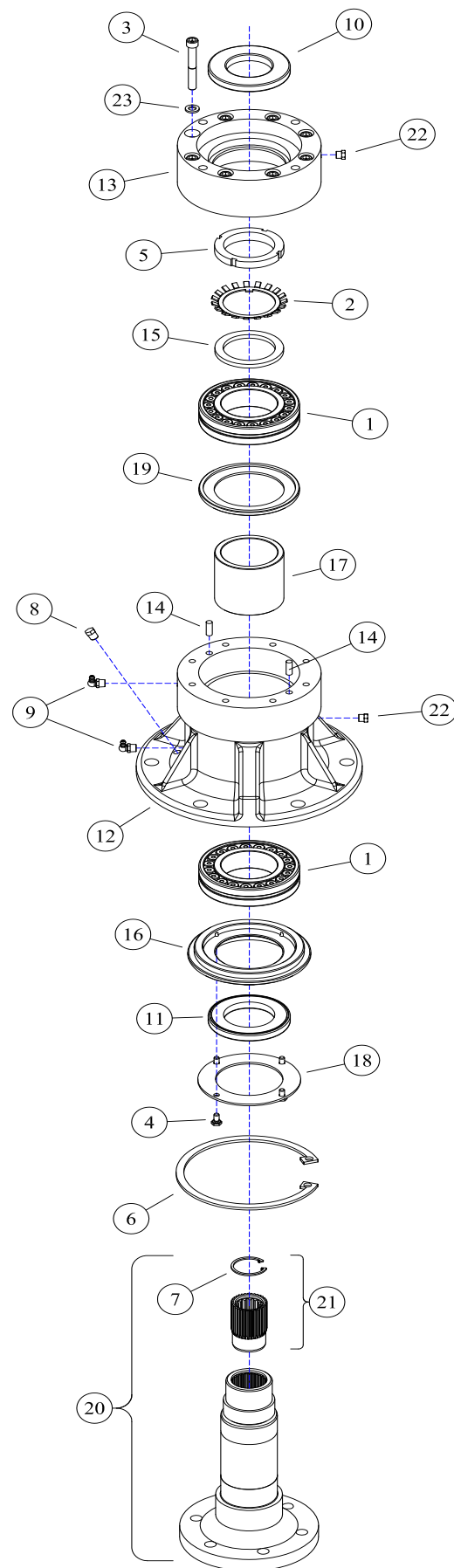
Grease with #2 lithium based grease every 500hrs.
Use 10 pumps (.44oz) into each of the two grease
zerks.

Warning: Do not overgrease

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

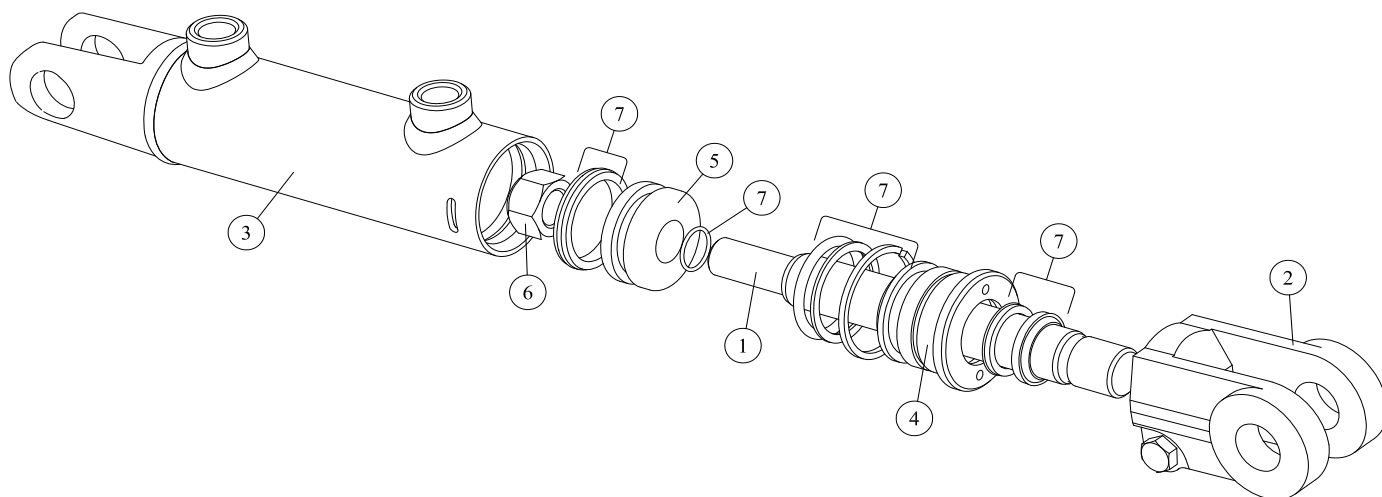
REF#	PARTS DESCRIPTION	REQ	PART #
1	BEARING	2	10-0055
2	LOCKING WASHER	1	11-0048
3	3/8 X 2-3/4 NC SKT HEAD CAPSCREW	8	11-0703
4	1/4 X 1/2 NC CAPSCREW	4	11-0741
5	2-1/2 SPANNER NUT	1	11-1037
6	LARGE SNAP RING	1	11-2021
7	SMALL SNAP RING	1	11-2022
8	PIPE PLUG	1	21-1136
9	1/8 X 90 GREASE ZERK	2	23-0005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

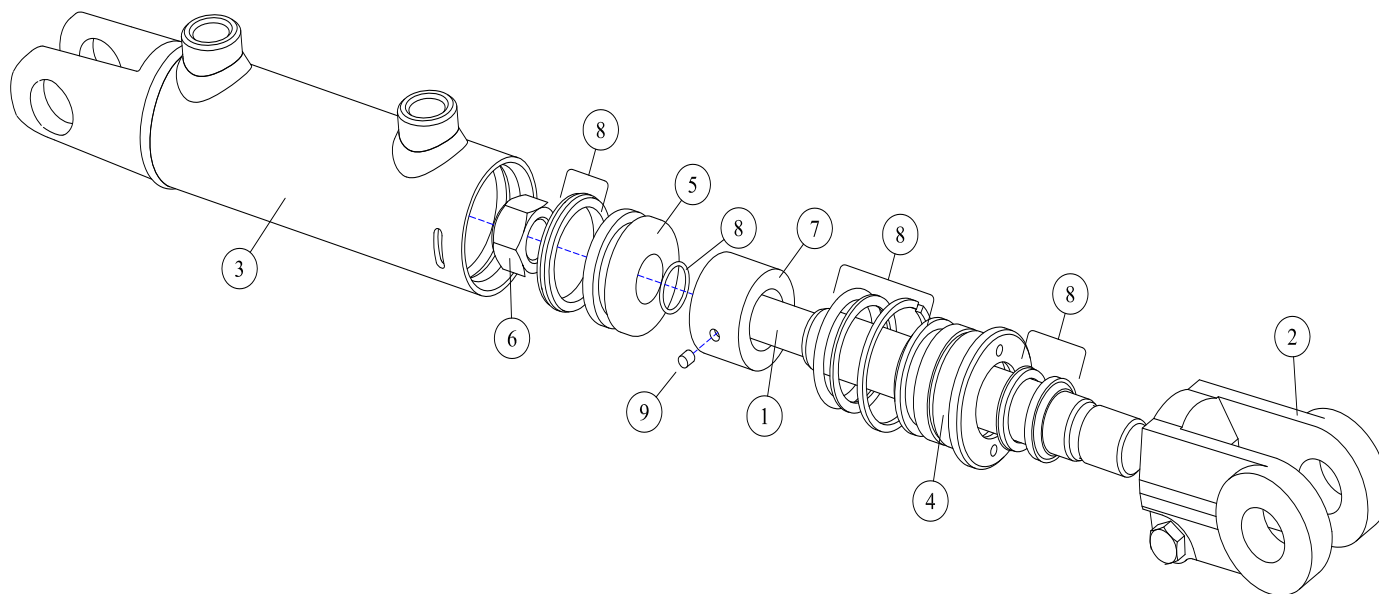


LIFT ASSEMBLIES



14-0001 - 3X10 WELDED CYLINDER

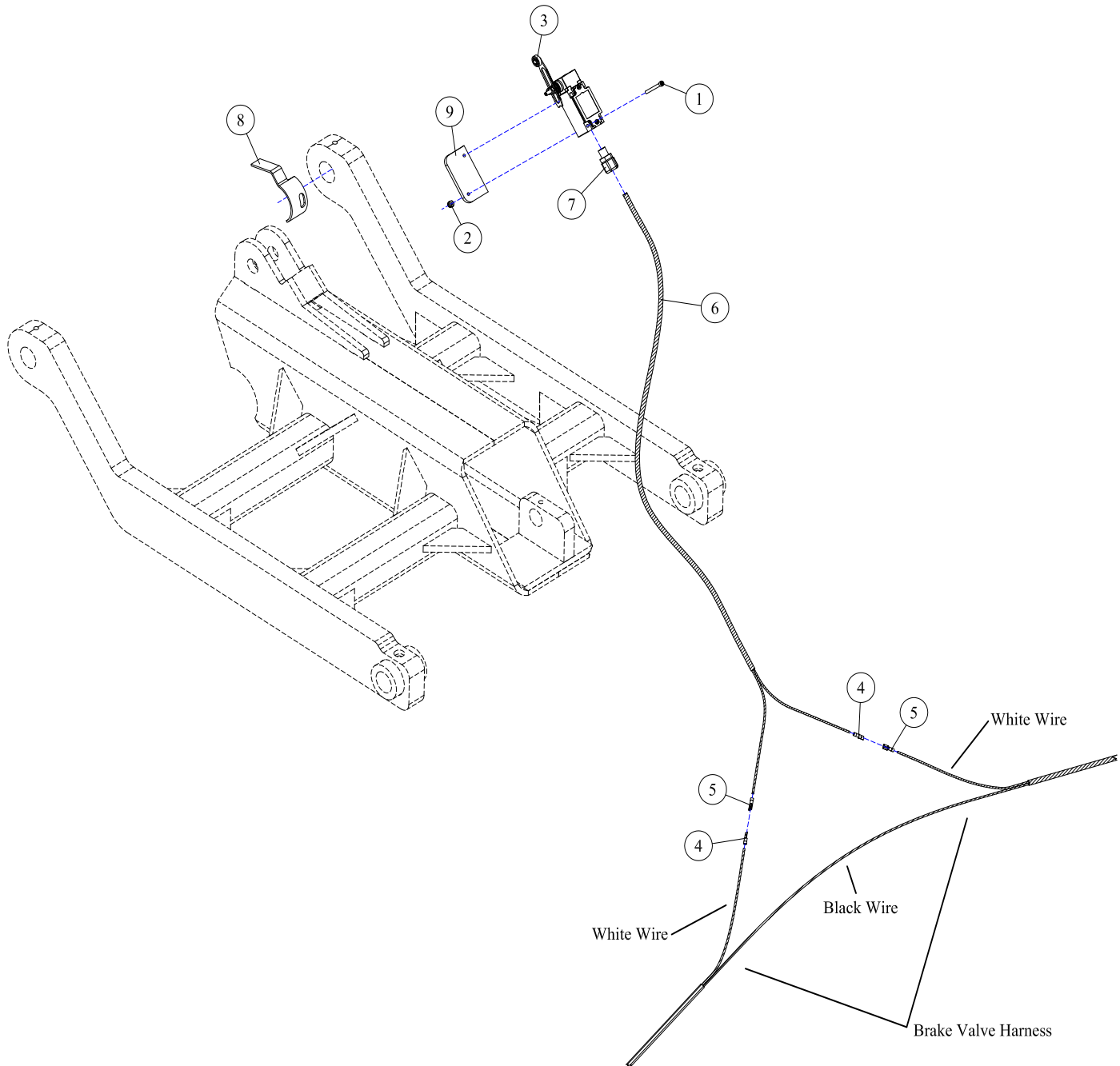
REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1130
2	CLEVIS ASSEMBLY	1	14-1160
3	BUTT & TUBE ASSEMBLY	1	14-1140
4	GLAND	1	14-1155
5	PISTON	1	14-1150
6	LOCKNUT	1	14-1120
7	SEAL KIT	1	33-0038

14-0004 - 3X12 WELDED CYLINDER, SLUGGED

REF#	PARTS DESCRIPTION	REQ	PART #
1	PISTON ROD	1	14-1131
2	CLEVIS ASSEMBLY	1	14-1160
3	BUTT & TUBE ASSEMBLY	1	14-1141
4	GLAND	1	14-1155
5	PISTON	1	14-1150
6	LOCKNUT	1	14-1120
7	SLUG	1	14-1191
8	SEAL KIT	1	33-0038
9	SET SCREW	1	11-2007

ELECTRICAL ASSEMBLIES



LIMIT SWITCH - DRAFT BEAM HEIGHT LIMITER

REF#	PARTS DESCRIPTION	REQ	PART #
1	#10 - 24 X 2 SHCS	2	11-0786
2	#10 - 24 NYLOCK NUT	2	11-1051
3	LIMIT SWITCH	1	16-0016
4	14-16GA MALE PUSH-ON CONNECTOR	2	16-0040
5	14-16GA FEMALE PUSH-ON CONNECTOR	2	16-0041
6	14/2 PRIMARY WIRE	Avail/ft	16-0042
7	3/8 CONDUIT STRAIN RELIEF	1	16-0043
8	CAM TILT BRACKET		
	LEFT	1	24-0039
	RIGHT	1	24-0040
9	LIMIT SWITCH PLATE	1	31-0023

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**72-HOUR PARTS
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