

SKIDDRUM MULCHER OD



72"(1829MM) DRUM MULCHER

DOC #15-1504

03/31/2022

WARRANTY + SERVICE 888.960.0364
PARTS 888.960.0361



DIAMONDMOWERS.COM

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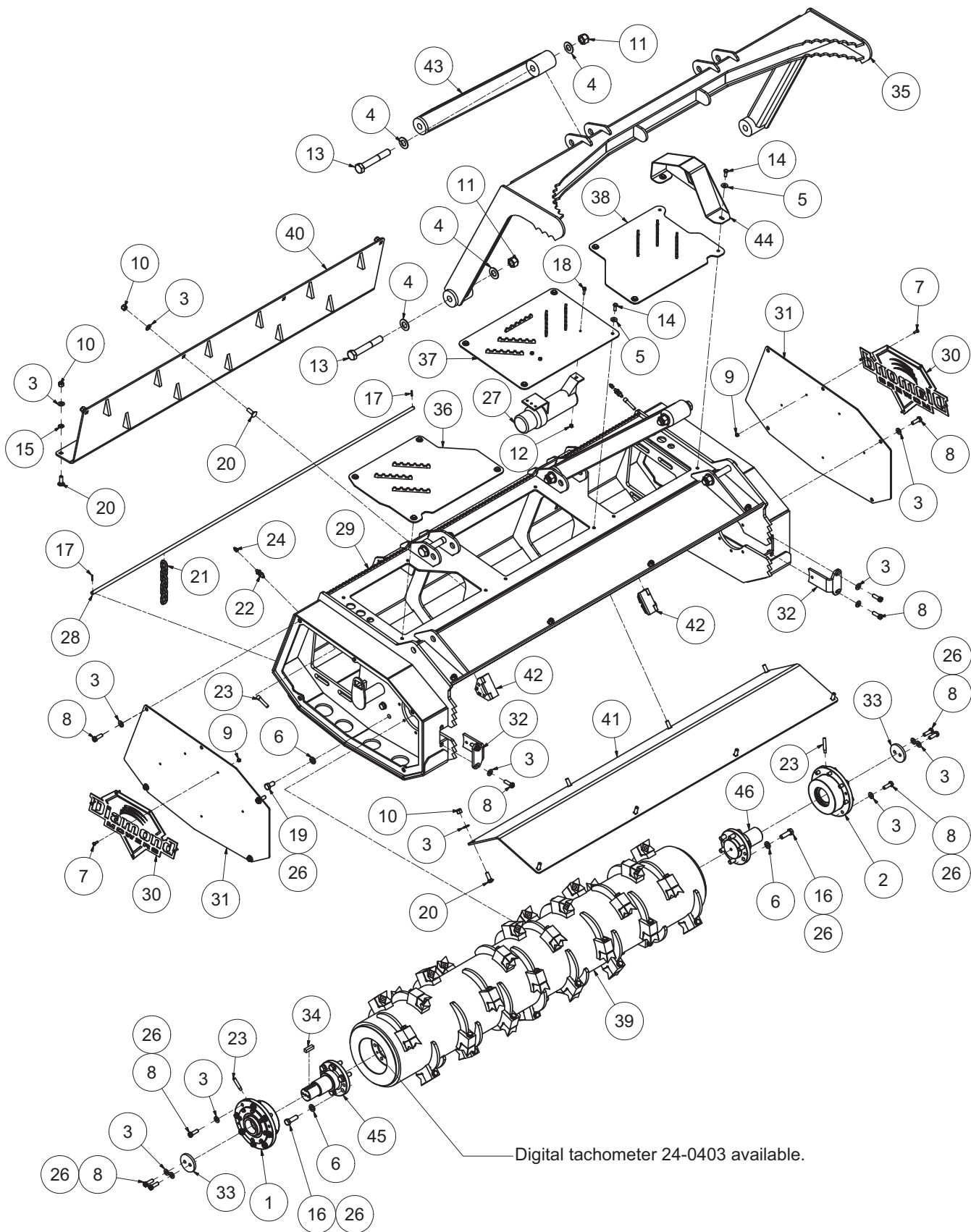
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CUTTER ASSEMBLIES

CUTTER ASSEMBLIES

DECK ASSEMBLY



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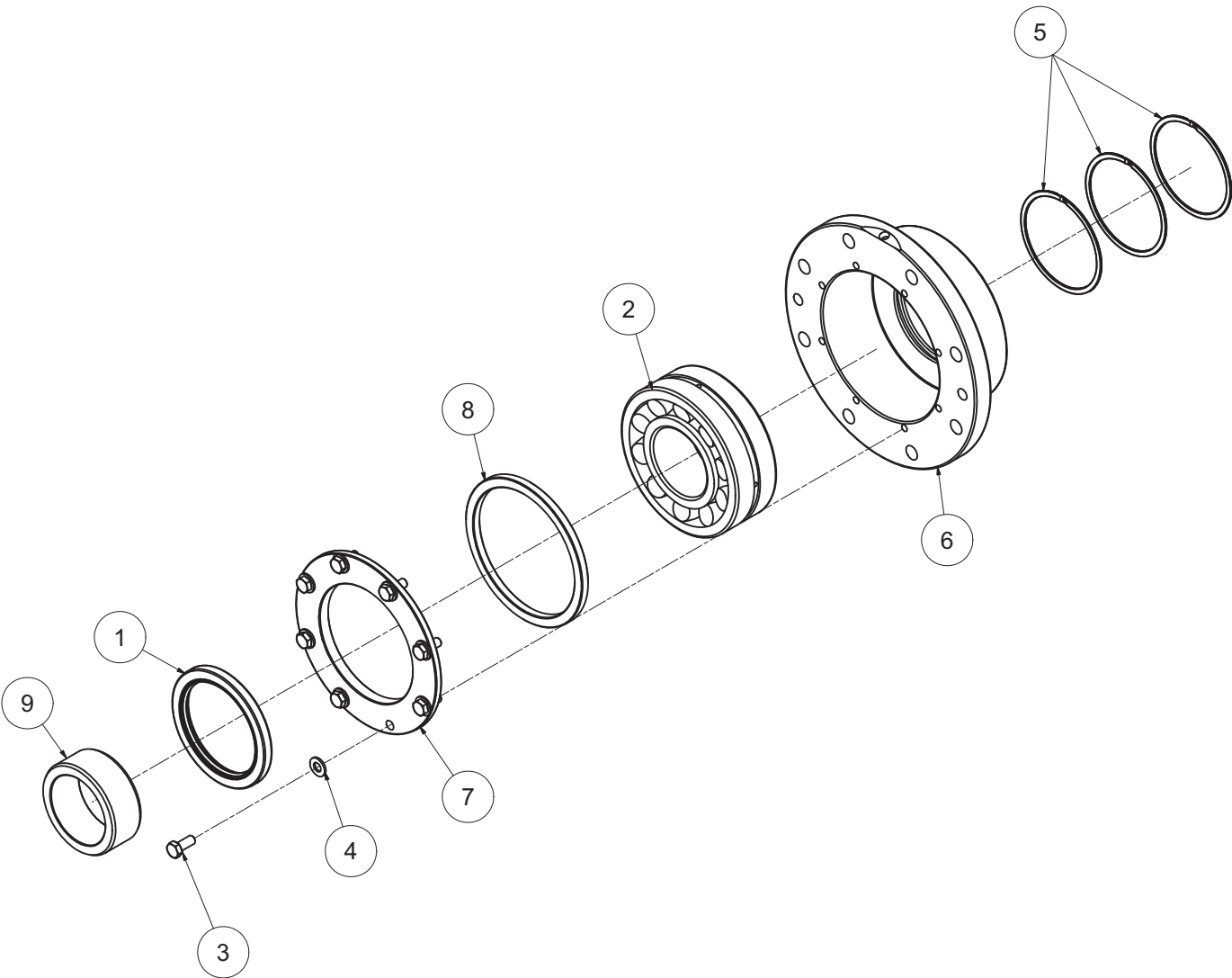
CUTTER ASSEMBLIES

DECK ASSEMBLY

REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	BEARING ASSEMBLY, DRUM MULCHER, FIXED (DRIVE)	1	10-1082	
2	BEARING ASSEMBLY, DRUM MULCHER, FLOATING (IDLER)	1	10-1083	
3	1/2 X 1.062 GR 8 SAE FLAT WASHER, YELLOW ZINC	51	11-0042	
4	1 X 2 GR 8 SAE FLAT WASHER, YELLOW ZINC	12	11-0056	
5	3/8 THRU-HARDENED FLAT WASHER, YELLOW ZINC	12	11-0092	
6	M16 THRU-HARDENED FLAT WASHER, ECOGUARD	16	11-0102	
7	1/4-20 X 3/4 GR 5 HEX CAP, ZINC	10	11-0588	8.4
8	1/2-13 X 1-1/2 GR 8 HEX CAP SCREW, YELLOW ZINC	32	11-0972	106
9	1/4-20 GR 5 NYLOCK NUT, ZINC	10	11-1022	
10	1/2-13 GR 8 NYLOCK NUT, ZINC	19	11-1072	
11	1 NC NYLOCK NUT, GR 8	6	11-1082	
12	1/4-20 GR 5 NYLOCK FLANGE NUT, ZINC	3	11-1090	
13	1-8 X 6-1/2 GR 8 HEX CAP, YELLOW ZINC	6	11-1622	909
14	3/8-16 X 1 GR 8 HEX CAP, YELLOW ZINC	12	11-1624	44
15	1/2 PUSH NUT, BOLT RETENTION, ZINC	7	11-1665	
16	5/8-11 X 2 GR 8 HEX CAPSCREW, YELLOW ZINC	12	11-1672	240
17	ROLL PIN, 5/32" X 1"	2	11-2054	
18	1/4-20 X 1 GR 5 HEX FLANGE BOLT, ZINC	3	11-2210	8.5
19	5/8-11 X 1-1/4 GR 8 HEX CAPSCREW	4	11-2268	212
20	1/2-13 X 1-1/2 GR 8 CARRIAGE BOLT, YELLOW ZINC	19	11-2282	
21	3/8" CHAIN, ASTM A413 GR30 - 6 LINKS	58	12-0093	
22	BULKHEAD, 1/8 MP X 1/4 MJIC	2	21-1687	
23	GREASE HOSE, 1/8" X 24" (1/8MP X 1/4 FJIC)	2	21-4840	
24	GREASE ZERK 1/8" FEM. NPT	2	23-0008	
25	#2 LITHIUM GREASE (NOT SHOWN)	1	23-0015	
26	LOCTITE 262, .017 OZ (RED)	1	24-0382	
27	LARGE MANUAL CANISTER, 12" X 3.25"	1	24-0397	
28	CHAIN RETENTION ROD, FDS072	1	24-0411	
29	SHELL, ODS072 OPEN DRUM	1	25-0358	
30	DIAMOND LOGO CUTOUT	2	31-0670	
31	BELT COVER, FDS	2	31-0921	
32	SLOT COVER, FDS	2	31-1080	
33	RETENTION PLATE, INNER RING, FDS	2	31-1084	
34	KEY 1/2 X 1/2 X 1-3/4	1	37-0022	
35	PUSH BAR, DRUM MULCHER	1	41-1601	
36	RIGHT TOP GRIPPER COVER, FDS072	1	41-1771	
37	CENTER GRIPPER COVER, FDS072	1	41-1772	
38	LEFT GRIPPER COVER, FDS072	1	41-1773	
39	WELDMENT, DRUM, ODS072	1	41-1977	
40	LOWER LINER, FDS072 OPEN DRUM	1	41-1978	
41	UPPER LINER, FDS072 OPEN DRUM	1	41-1979	
42	SHEAR, FDS	2	41-1996	
43	PUSH BAR BRACE TUBE, FDS	2	41-1997	
44	HOSE GUARD, FDS/ODS	1	41-2236	
45	DRUM SHAFT, DRIVE SIDE, GEN II	1	90-7107	
46	DRUM SHAFT, IDLER SIDE, GEN II	1	90-7108	

CUTTER ASSEMBLIES

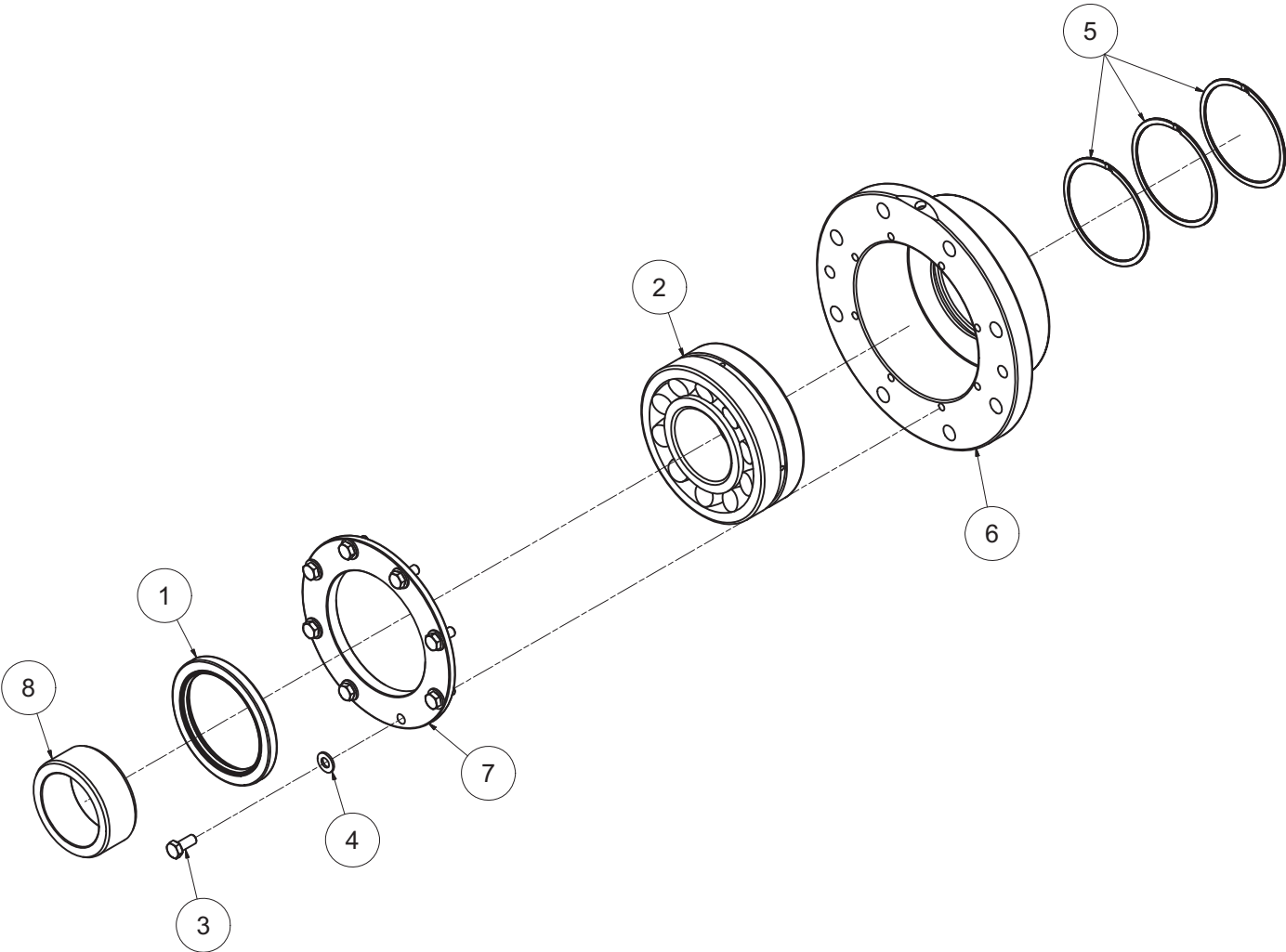
BEARING ASSEMBLY - 10-1082, DRIVE SIDE



REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	ROTARY SEAL	1	10-0123	
2	SPHERICAL ROLLER BEARING	1	10-1072	
3	5/16-18 X 3/4 GR 8 HEX CAP SCREW, YELLOW ZINC	8	11-2266	18
4	5/16 SAE THRU HARDENED FLAT WASHER	8	11-2267	
5	SPIRAL RING	3	24-0416	
6	DRUM BEARING HOUSING	1	90-7105	
7	BEARING COVER	1	90-7109	
8	BEARING SPACER, OUTER RING	1	90-7112	
9	SPACER, INNER RACE	1	90-7114	

CUTTER ASSEMBLIES

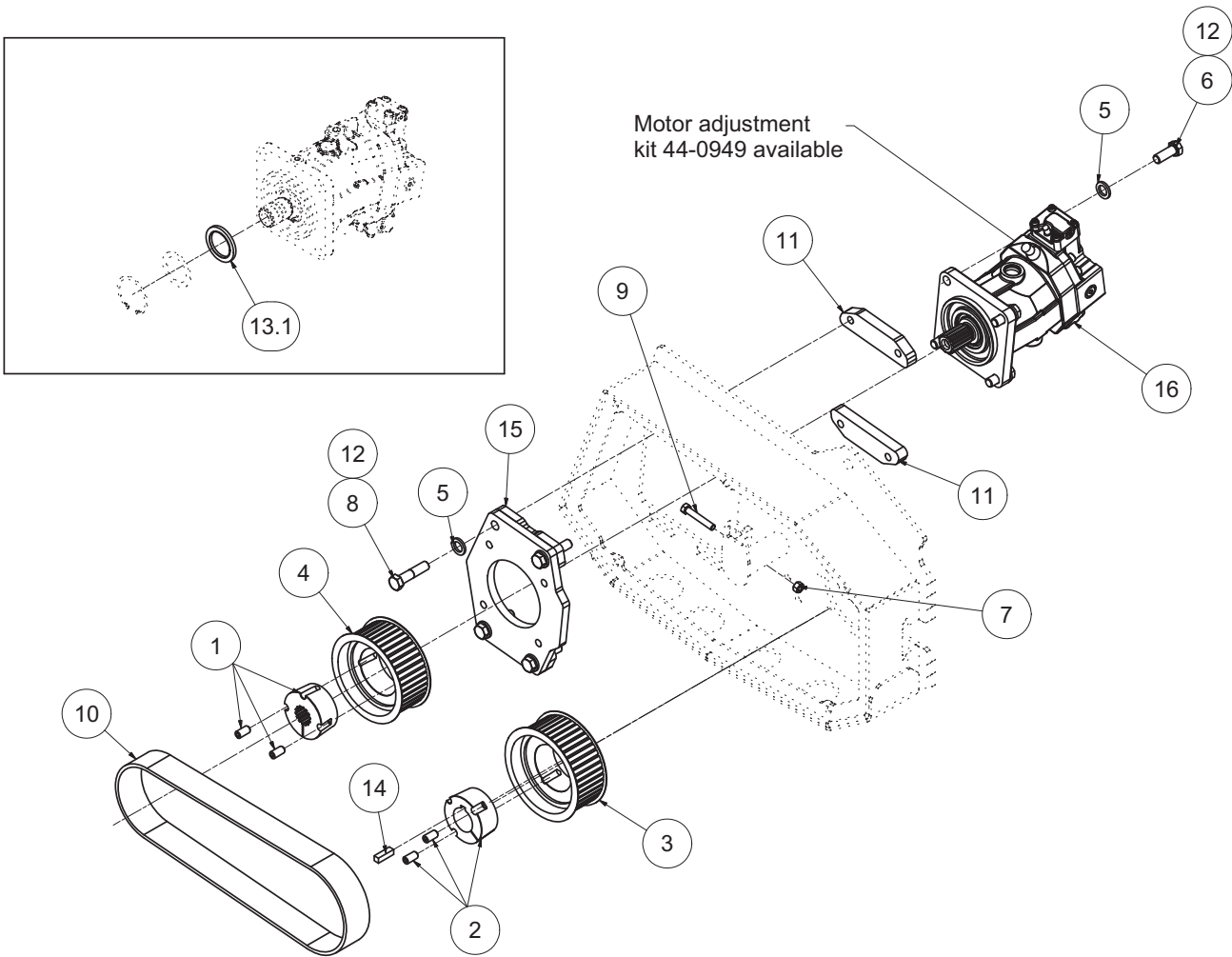
BEARING ASSEMBLY - 10-1083, IDLE SIDE



REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	ROTARY SEAL	1	10-0123	
2	SPHERICAL ROLLER BEARING	1	10-1072	
3	5/16-18 X 3/4 GR 8 HEX CAP SCREW, YELLOW ZINC	8	11-2266	18
4	5/16 SAE THRU HARDENED FLAT WASHER	8	11-2267	
5	SPIRAL RING	3	24-0416	
6	DRUM BEARING HOUSING	1	90-7105	
7	BEARING COVER	1	90-7109	
8	SPACER, INNER RACE	1	90-7114	

CUTTER ASSEMBLIES

DRIVE ASSEMBLY - 32-50GPM (119-189LPM)

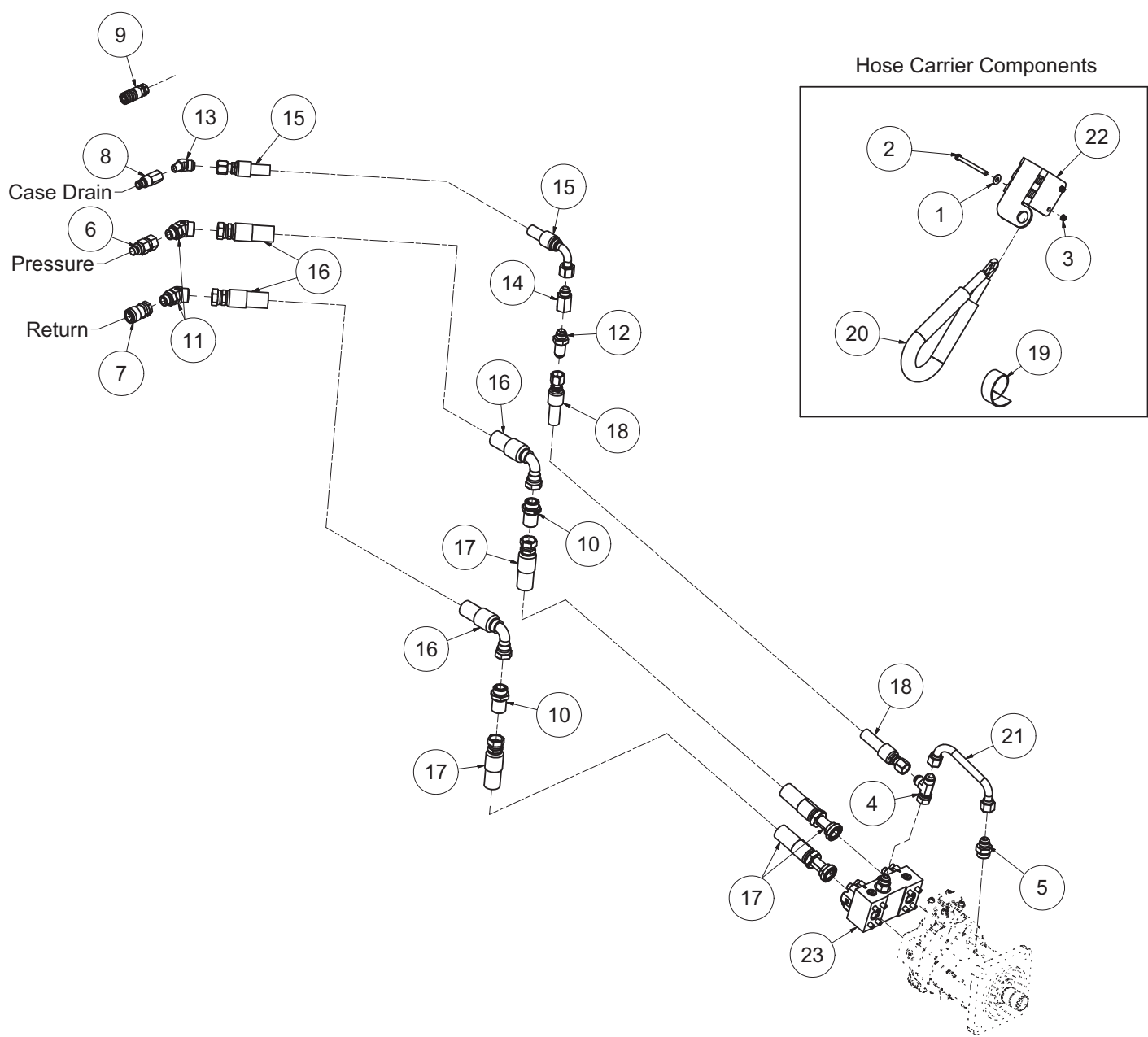


REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	BUSHING, 1-3/4 13T, DRUM MULCHER	1	10-1060	55
2	BUSHING, 2-3/16 KEYED, DRUM MULCHER	1	10-1061	55
3	PULLEY, 201MM X 85MM	1	10-1063	
4	PULLEY, 165MM X 85MM	1	10-1064	
5	3/4 SAE GR 8 FLAT WASHER, YELLOW	8	11-0039	
6	3/4-10 X 2 GR 8 HEX CAP, YELLOW ZINC	4	11-0751	376
7	1/2-13 GR 5 HEX NUT, ZINC	1	11-1016	
8	3/4-10 X 3-1/4 GR 8 HEX CAP, YELLOW ZINC	4	11-2205	376
9	1/2-13 X 3 GR 8 HEX CAP, YELLOW ZINC FULL THREAD	1	11-2206	
10	BELT, HT500, 68MM X 1568MM, DRUM MULCHER	1	12-0082	
11	MOTOR MOUNT CLAMP PLATE, DRUM MULCHER	2	24-0368	
12	LOCTITE 262, .017 OZ (RED)	1	24-0382	
13	SEAL KIT	1	30-1437	
13.1	SHAFT SEAL	1	30-1436	
14	KEY 1/2 X 1/2 X 1-3/4	1	37-0022	
15	MOTOR MOUNT, DRUM MULCHER	1	41-1606	
16	VARIABLE DISPLACEMENT BENT AXIS PISTON MOTOR	1		
	3000 PSI CARRIER SETTING		30-0586	
	3300 PSI CARRIER SETTING		30-0585	
	3500 PSI CARRIER SETTING		30-0584	
	4000 PSI CARRIER SETTING		30-0545	

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CUTTER ASSEMBLIES

DECK FEED ASSEMBLY



CUTTER ASSEMBLIES

DECK FEED ASSEMBLY

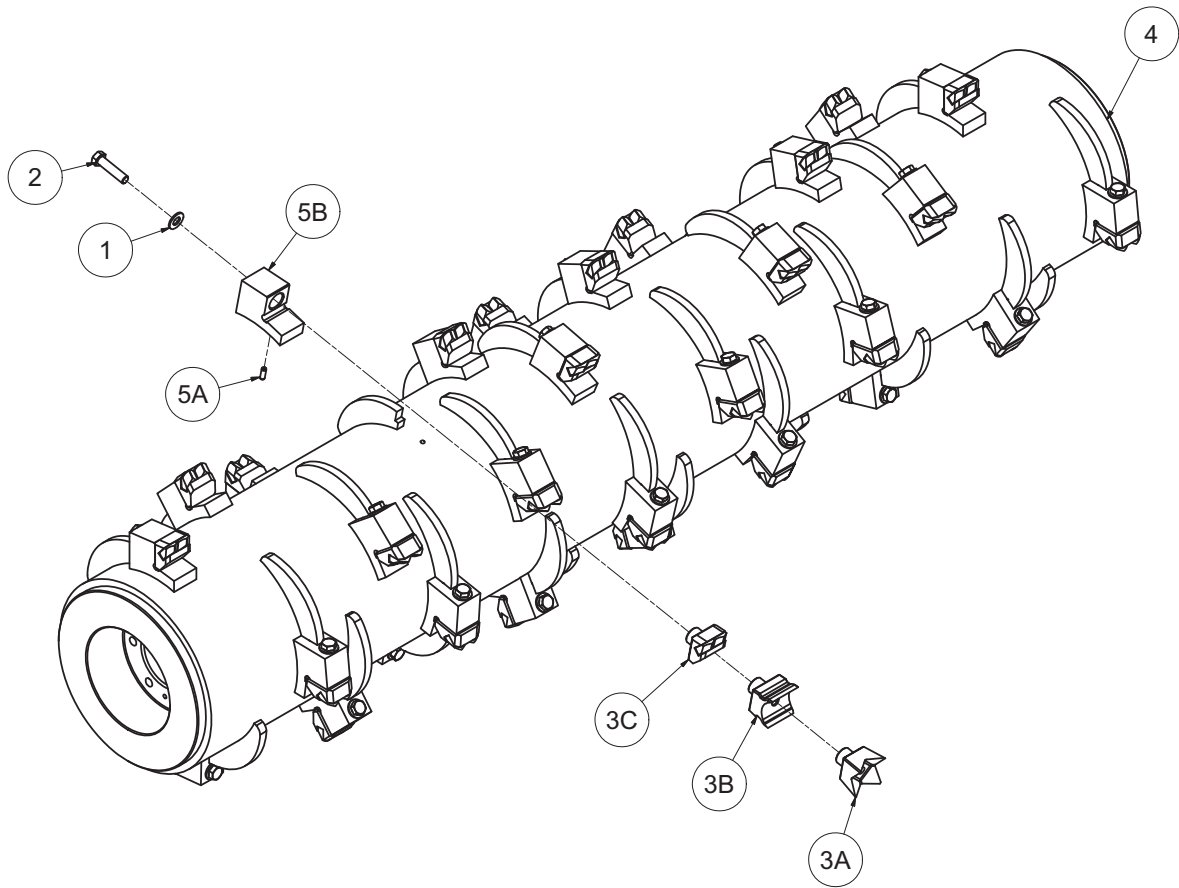
REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	3/8 THRU-HARDENED FLAT WASHER, YELLOW ZINC	2	11-0092	
2	3/8-16 X 4 GR 5 HEX CAP, ZINC	2	11-0581	31
3	3/8-16 GR 5 NYLOCK FLANGE NUT, ZINC	2	11-1091	
4	TEE, 3/4MJIC X 3/4MJIC X 3/4FJIC	1	21-1130	
5	1M-OR X 3/4MJIC, ADAPTER	1	21-1536	
6	1/2" MALE QUICK COUPLER X 3/4" SAE, FLAT FACE, NO SPILL	1	21-1559	
7	1/2" FEMALE QCK COUPLER X 3/4" SAE, FLAT FACE, NO SPILL	1	21-1560	
8	3/8" MALE QUICK COUPLER, FLAT FACE, NO SPILL	1	21-1561	
9	3/8" FEMALE QUICK COUPLER, FLAT FACE, NO SPILL	1	21-1562	
10	BULKHEAD, 1FS X 1FS	2	21-1645	
11	ELBOW, -12 ADJ MOR X -16 MFS, 45 DEG	2	21-1689	
12	BULKHEAD, -12MJIC X -12MJIC	1	21-1709	
13	ADAPTER 3/4MJIC x 1/2MP -45DEG	1	21-1731	
14	CHECK VALVE, 3/4 MJIC X 3/4 FJIC, CHECKED FROM MALE TO FEMALE	1	21-1774	
15	HOSE 3/4 x 88, 3000 PSI (3/4FJIC-90DEG x 3/4FJIC)	1	21-4831	
16	HOSE, 1 X 88, 4000 PSI (-16 FFS X -16 FFS 90 DEG) KEVLAR	2	21-4832	
17	HOSE, 1 X 70, 4000 PSI (-16 CODE 62 FLANGE X -16 FFS)	2	21-4907	
18	HOSE, 3/4 X 71, 300 PSI (-12FJIC X -12FJIC)	1	21-4931	
19	HOSEGUARD 3" SPIRAL / 54"	1	24-0390	
20	ELASTIC STRAP WITH CLIPS, 24", 47lb at 60"	1	24-0391	
21	PREFORMED TUBE, CASE DRAIN, FDS	1	28-0093	
22	BRACKET HOSE SUPPORT	1	31-1063	
23	MOTOR MOUNTED ANTI CAVITATION MANIFOLD, A6VM	1	39-0134	
*	OPTIONAL QUICK COUPLERS			
	5/8 MALE QUICK COUPLER, FLAT FACE	1	21-1574	
	5/8 FEMALE QUICK COUPLER, FLAT FACE	1	21-1575	
	3/4 MALE QUICK COUPLER, FLAT FACE	1	21-1576	
	3/4 FEMALE QUICK COUPLER, FLAT FACE	1	21-1577	

* NOT SHOWN

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CUTTER ASSEMBLIES

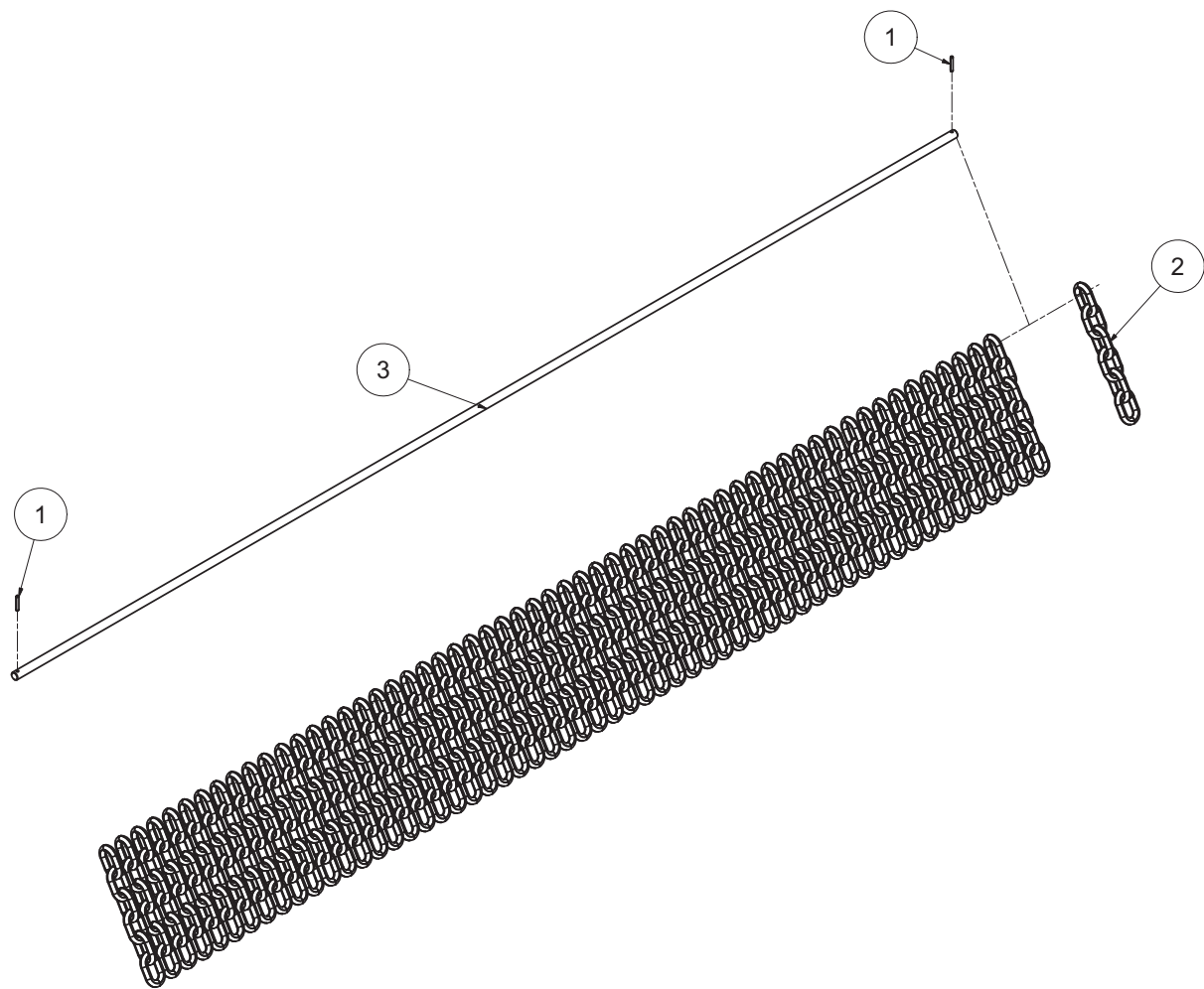
DRUM ASSEMBLY



REF#	PARTS DESCRIPTION	REQ	PART#	TORQUE (ft-lbs)
1	1/2 X 1.062 GR 8 SAE FLAT WASHER, YELLOW ZINC	40	11-0042	
2	1/2-20 X 2 GR 8 HEX CAP, YELLOW ZINC	40	11-0633	120
3A	FOUR-POINT HARDENED STEEL TOOTH	40	22-0019	
3B	TWIN CHISEL® TOOTH	40	22-0041	
3C	TWIN MAUL® CARBIDE TOOTH	40	22-0044	
4	DRUM WELDMENT FOR 72", SKID, NON-DEPTH	1	41-1977	
5	ASSEMBLY, TOOTH HOLDER, CHAMFERED FRONT	40	90-7122	
5A	SPRING PIN	40	11-2148	
5B	TOOTH HOLDER, CHAMFERED FRONT	40	90-7121	

CUTTER ASSEMBLIES

OPTIONAL CHAIN GUARD



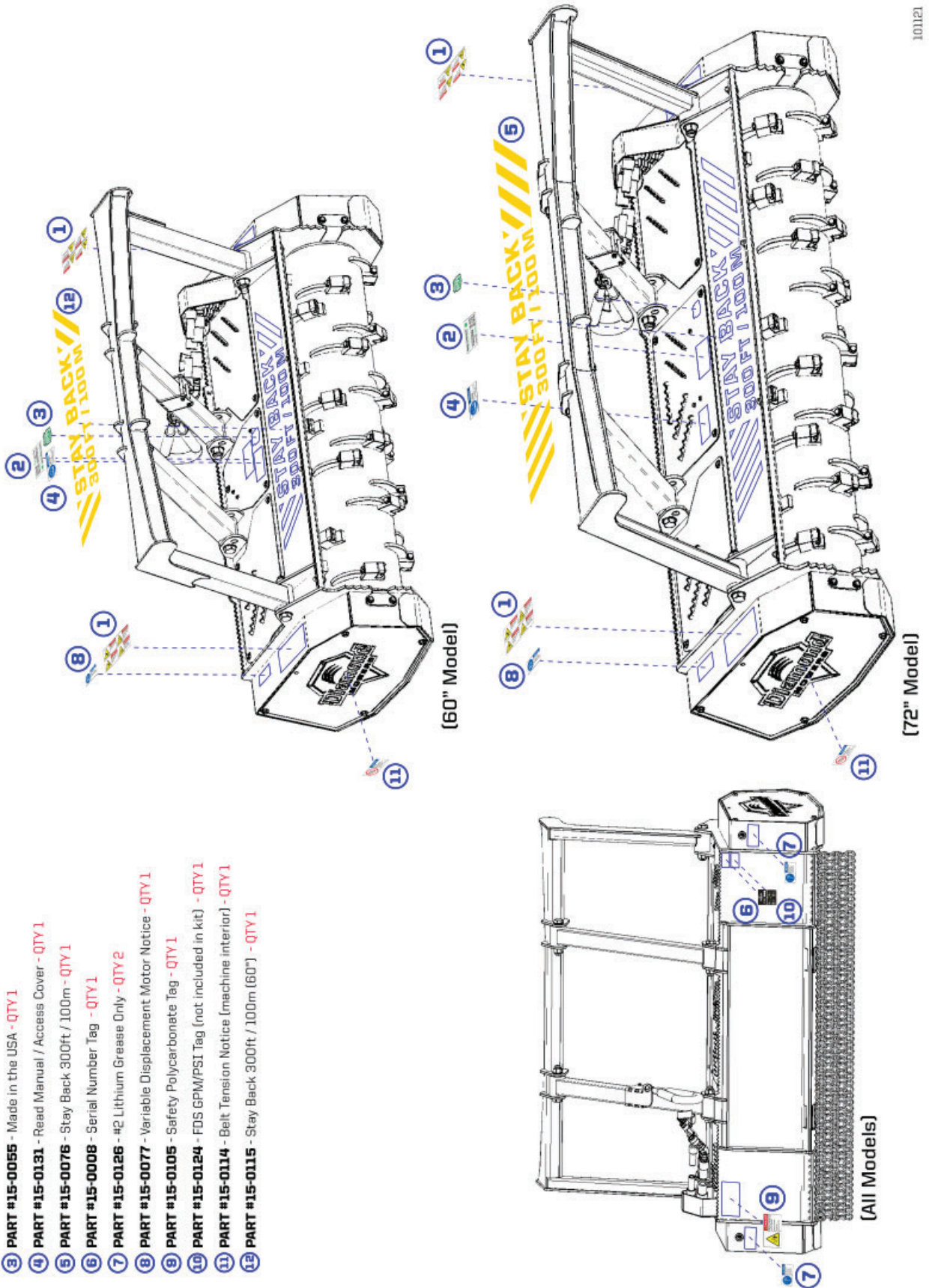
REF#	PARTS DESCRIPTION	REQ	PART#
1	ROLL PIN, 5/32" X 1"	2	11-2054
2	3/8" CHAIN, ASTM A413 GR30 - 6 LINKS	58	12-0093
3	CHAIN RETENTION ROD, FDS072	1	24-0411

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CUTTER ASSEMBLIES

DECAL ASSEMBLY

- 1 PART #15-0057 - Decal Group (horizontal) - QTY 2
- 2 PART #15-0132 - QR Code / Warranty - QTY 1
- 3 PART #15-0055 - Made in the USA - QTY 1
- 4 PART #15-0131 - Read Manual / Access Cover - QTY 1
- 5 PART #15-0076 - Stay Back 300ft / 100m - QTY 1
- 6 PART #15-0008 - Serial Number Tag - QTY 1
- 7 PART #15-0126 - #2 Lithium Grease Only - QTY 2
- 8 PART #15-0077 - Variable Displacement Motor Notice - QTY 1
- 9 PART #15-0105 - Safety Polycarbonate Tag - QTY 1
- 10 PART #15-0124 - FDS GPM/PSI Tag (not included in kit) - QTY 1
- 11 PART #15-0114 - Belt Tension Notice (machine interior) - QTY 1
- 12 PART #15-0115 - Stay Back 300ft / 100m (60") - QTY 1



101121



APPENDIX

O-RINGS - S.A.E.

ORING (AS568) BOSS FITTINGS [KIT PART# 33-0122] SAE SIZES

STANDARD ORING PART #	HYDRAULIC SIZE	ORING ID SAE (IN)	ORING WIDTH SAE (IN)	ORING MATERIAL
902	-2	0.24	0.06	90-durometer Nitrile
903	-3	0.30	0.06	90-durometer Nitrile
904	-4	0.35	0.07	90-durometer Nitrile
905	-5	0.41	0.07	90-durometer Nitrile
906	-6	0.47	0.08	90-durometer Nitrile
908	-8	0.64	0.09	90-durometer Nitrile
910	-10	0.76	0.1	90-durometer Nitrile
912	-12	0.92	0.12	90-durometer Nitrile
914	-14	1.05	0.12	90-durometer Nitrile
916	-16	1.17	0.12	90-durometer Nitrile
920	-20	1.48	0.12	90-durometer Nitrile
924	-24	1.72	0.12	90-durometer Nitrile
932	-32	2.34	0.12	90-durometer Nitrile

ORING (AS568) FLAT SEAL FITTINGS [KIT PART# 33-0123] SAE SIZES & METRIC SIZES

STANDARD ORING PART #	HYDRAULIC SIZE	END SIZE SAE (IN)	METRIC (MM)	ORING ID SAE (IN)	METRIC (MM)	ORING WIDTH SAE (IN)	METRIC (MM)	ORING MATERIAL
011	-4	1/4	6	0.30	7.70	0.07	1.78	90-durometer Nitrile
012	-6	3/8	8, 10	0.36	9.30	0.07	1.78	90-durometer Nitrile
014	-8	1/2	12	0.49	12.40	0.07	1.78	90-durometer Nitrile
016	-10	5/8	14, 15, 16	0.61	15.60	0.07	1.78	90-durometer Nitrile
018	-12	3/4	18, 20	0.74	18.80	0.07	1.78	90-durometer Nitrile
020	-14	7/8	22	0.86	21.80	0.07	1.78	90-durometer Nitrile
021	-16	1	25	0.93	23.50	0.07	1.78	90-durometer Nitrile
025	-20	1 1/4	28, 30, 32	1.18	29.90	0.07	1.78	90-durometer Nitrile
029	-24	1 1/2	35, 38	1.49	37.80	0.07	1.78	90-durometer Nitrile
135	-32	2	50	1.93	49.00	0.10	2.54	90-durometer Nitrile

APPENDIX

S.A.E. TORQUE SPECIFICATIONS

Nominal Dia.	threads per inch	Tensile Stress Area		 ASTM A307 Grade A						 SAE J429 Grade 5						 SAE J429 Grade 8						 FNL Grade 9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			 Clamp Load (Lbs.)	Tightening Torque			 Clamp Load (Lbs.)	Tightening Torque			 Clamp Load (Lbs.)	Tightening Torque			 Clamp Load (Lbs.)	Tightening Torque																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				K = 0.15	K = 0.17	K = 0.20		K = 0.15	K = 0.17	K = 0.20		K = 0.15	K = 0.17	K = 0.20		K = 0.15	K = 0.17	K = 0.20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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The torque values can only be achieved if nut (or tapped hole) has a proof load greater than or equal to the bolt's minimum ultimate tensile strength.

Clamp load calculated as 75% of the proof load when specified by the standard. ASTM A307 utilized 75% of 36,000 PSI.

Torque values for 1/4 and 5/16-in series are in inch-pounds. All other torque values are in foot-pounds.

Torque values calculated from formula $T = KDF$, where

K = 0.15 for "lubricated" conditions

K = 0.17 for zinc plated and dry conditions; we have also found various forms of customer applied thread lockers to have a similar K value.

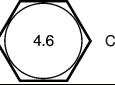
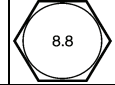
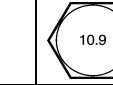
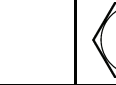
K = 0.20 for plain and dry conditions

D = Nominal Diameter

F = Clamp Load

Note: When using Zinc Plated (lubricated with wax) Top Lock Nuts, the K value can vary between 0.12-0.16

METRIC TORQUE SPECIFICATIONS

Nominal Dia. (mm)	Pitch	 Class 4.6				 Class 8.8				 Class 10.9				 Class 12.9			
		Clamp Load (lbs)	Tightening Torque			Clamp Load (lbs)	Tightening Torque			Clamp Load (lbs)	Tightening Torque			Clamp Load (lbs)	Tightening Torque		
			Lubricated (ft-lbs)	Zinc Plated (ft-lbs)	Plain&Dry (ft-lbs)		Lubricated (ft-lbs)	Zinc Plated (ft-lbs)	Plain&Dry (ft-lbs)		Lubricated (ft-lbs)	Zinc Plated (ft-lbs)	Plain&Dry (ft-lbs)		Lubricated (ft-lbs)	As-Received (ft-lbs)	Plain&Dry (ft-lbs)
4	0.7	333	0.7	0.7	0.9	858	1.7	1.9	2.3	1228	2.4	2.7	3.2	1436	2.8	3.2	3.8
5	0.8	538	1.3	1.5	1.8	1387	3.4	3.9	4.5	1985	4.9	5.5	6.5	2319	5.7	6.5	7.6
6	1	763	2.3	2.6	3.0	1968	5.8	6.6	7.7	2816	8.3	9.4	11.1	3291	9.7	11.0	13.0
7	1	1095	3.8	4.3	5.0	2822	9.7	11.0	13.0	4039	13.9	15.8	18.5	4720	16.3	18.4	21.7
8	1.25	1389	5.5	6.2	7.3	3580	14.1	16.0	18.8	5123	20.2	22.9	26.9	5987	23.6	26.7	31.4
10	1.5	2200	10.8	12.3	14.4	5671	27.9	31.6	37.2	8115	39.9	45.2	53.2	9484	46.7	52.9	62.2
12	1.75	3197	18.9	21.4	25.2	8240	48.7	55.1	64.9	11792	69.6	78.9	92.8	13781	81.4	92.2	108.5
14	2	4379	30.2	34.2	40.2	11289	77.8	88.1	103.7	16154	111.3	126.1	148.4	18879	130.0	147.4	173.4
16	2	5943	47	53	62	15320	121	137	161	21924	173	196	230	25622	202	229	269
18	2.5	7301	65	73	86	18822	167	189	222	26934	239	270	318	31477	279	316	372
20	2.5	9286	91	104	122	23938	236	267	314	34256	337	382	449	40034	394	446	525
22	2.5	11509	125	141	166	29669	321	364	428	42457	460	521	613	49619	537	609	716
24	3	13372	158	179	211	34471	407	461	543	49329	582	660	777	57649	681	771	908
27	3	17428	232	262	309	44924	597	676	796	64288	854	968	1139	75132	998	1131	1331
30	3.5	21266	314	356	419	54819	809	917	1079	78448	1158	1312	1544	91680	1353	1534	1804
33	3.5	26310	427	484	570	67821	1101	1248	1468	97055	1576	1786	2101	113425	1842	2087	2455
36	4	30982	549	622	732	79866	1415	1603	1886	114291	2024	2294	2699	133569	2366	2681	3154

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BRILLIANCE**