



MK Diamond Products, Inc.

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MK-5010 SUPERMATIC BLOCK SAW PARTS MANUAL

MODELS

P/N

MK-5010S Supermatic Block Saw 60HZ/230V	166929
MK-5010T Supermatic Block Saw 60HZ/230V	166930
MK-5010T Supermatic Block Saw 60HZ/460V	166931



Revision 200

04.2020

Manual Part# 172584

Caution: Read all safety and operating instructions before using this equipment. This owner's manual **MUST** accompany the equipment at all times.



MK Diamond Products, Inc.

INTRODUCTION

Congratulations on your purchase of a MK-5000. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-5000 should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-5000 safely and correctly. Please take the time to familiarize yourself with the MK-5000 by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your MK-5000 please feel free to call our friendly customer service department at (800) 421-5830.

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

MODEL NUMBER:	
SERIAL NUMBER:	
PURCHASE PLACE:	
PURCHASE DATE:	

WARRANTY: For your (1) one year warranty to be effective, complete the online Product Registration as soon as possible. Visit www.mkdiamond.com/registration/

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FIGURE 1 - MK-5010S SUPERMATIC BLOCK SAW 60 HZ/230V P/N 166929

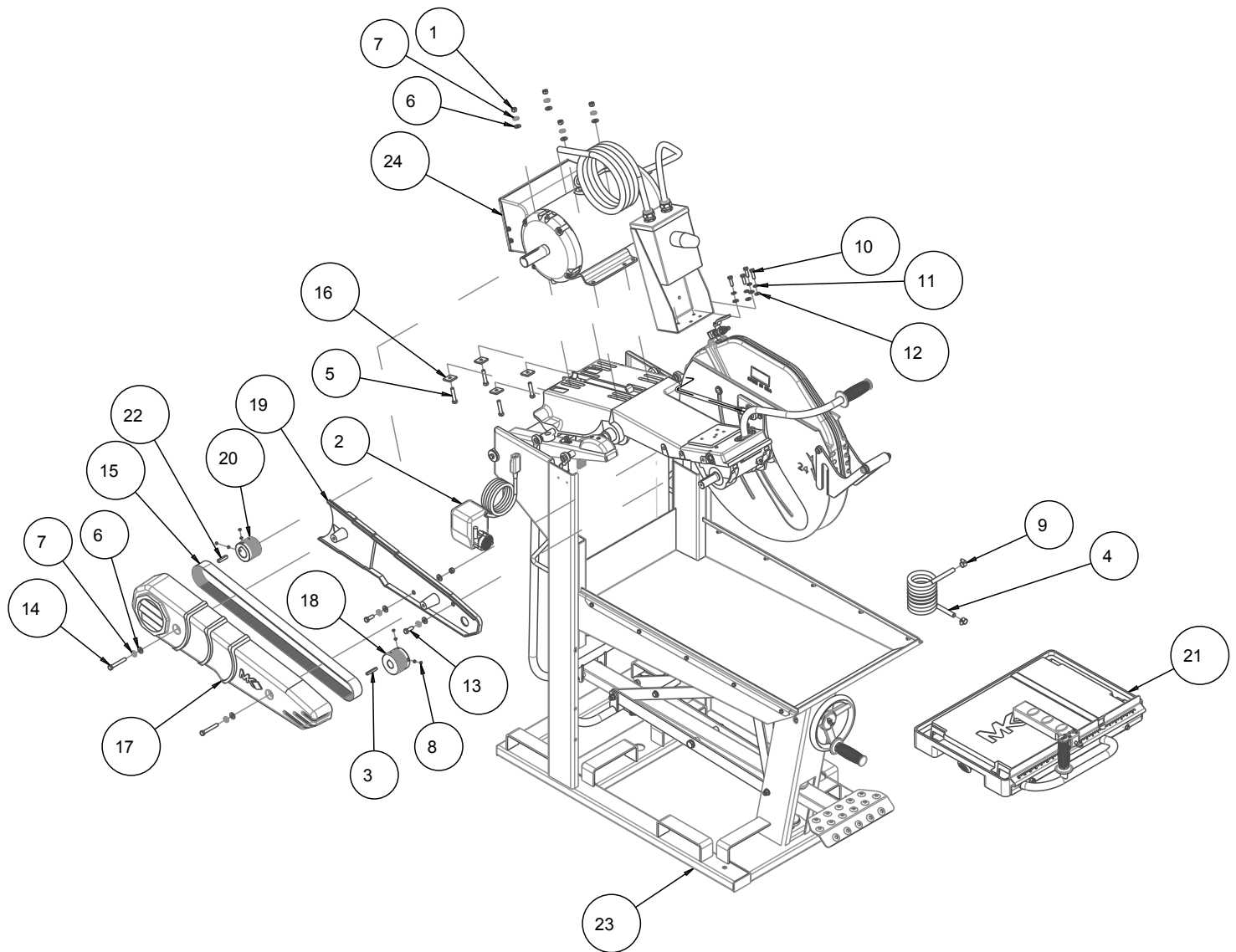


FIGURE 1 - MK-5010S SUPERMATIC BLOCK SAW 60 HZ/230V P/N 166929

ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 3/8-16	101188	5
2	ASSY, PUMP, 300GPH 230V 50HZ/60HZ	114769-MK	1
3	KEY, 1/4 SQR X 1-3/4	150796	1
4	HOSE, WATER VINYL, 3/8 X 1/2 (72.0")	150845	1
5	SCREW, HEX HD, 3/8-16 X 1-3/4	150920	4
6	WASHER, FLAT, SAE, 3/8	150923	9
7	WASHER, LOCK, SPLIT, 3/8	150925	8
8	SCREW, SET, CUP PT, 5/16-18 X 3/16	151167	8
9	CLAMP, HOSE, 5/8	151198	2
10	SCREW, HEX HD, 5/16-18X1	151743	4
11	WASHER, LOCK, SPLIT, 5/16	151747	4
12	WASHER, FLAT, SAE, 5/16	151754	4
13	SCREW, HEX HD CAP, 3/8-16 X 1	152507	2
14	BOLT, 3/8-16 X 2-1/2 HEX HEAD TAP	155589	2
15	BELT, 16J610	156551	1
16	WASHER, SQR, 7/16 X 1-1/4 X 3/16	157567	4
17	CSTG, 5000 OUTER BELT GRD-COMP	159954	1
18	PULLEY, 16J25 X 1-3/8 BORE	161135	1
19	CASTING, INNER BLT GRD-COMP	162516	1
20	PULLEY, 16J25 X 1-3/8 BORE	165795	1
21	ASSY, TABLE, DELUXE	165991	1
22	KEY, 5/16 SQR X 1-1/2	167581	1
23	ASSY, BASE, HVY DTY SUPERMATIC	172446-S	1
24	ASSY, MTR, 10HP 230V 1PH 1715RPM, L3712T	172447	1

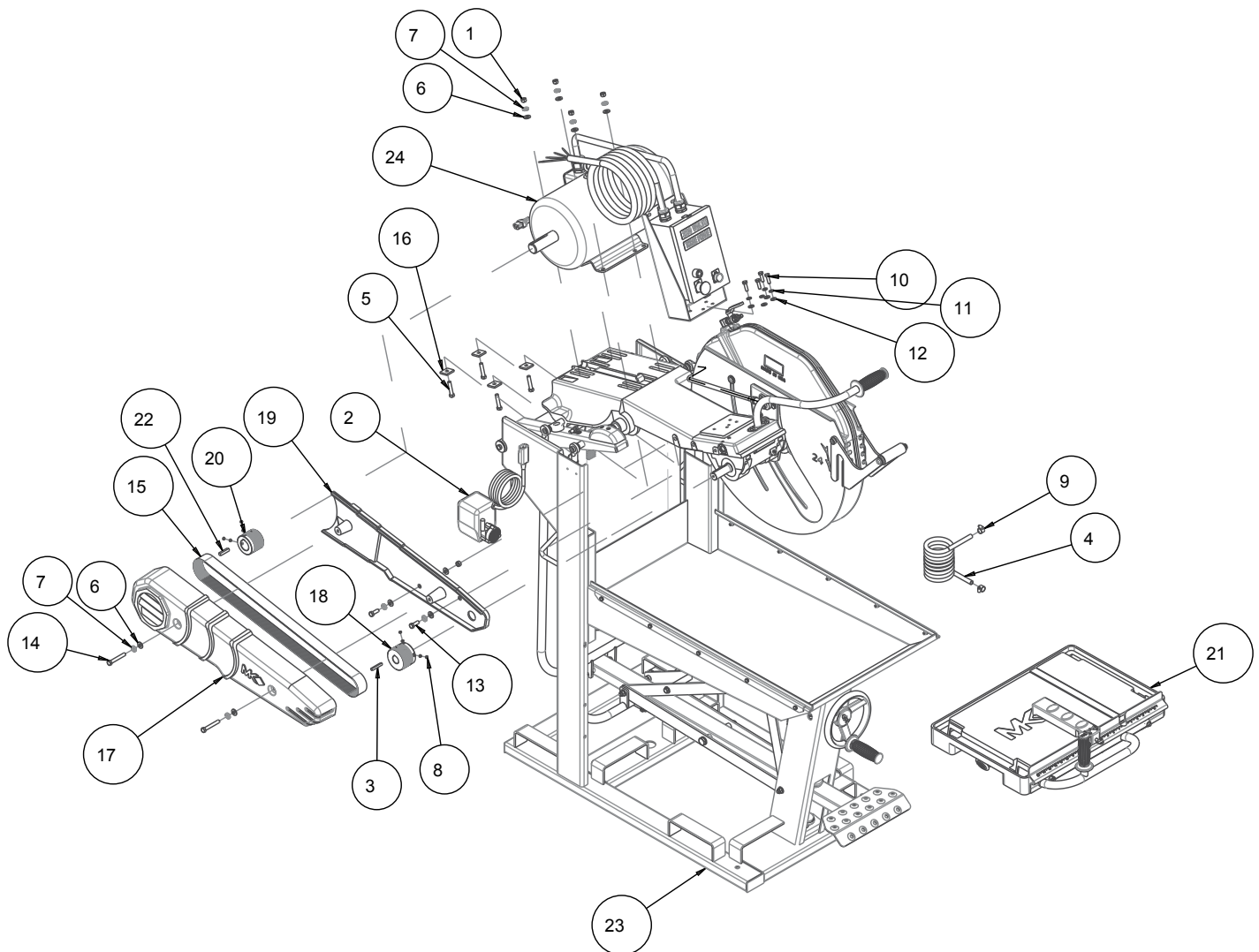
FIGURE 2 - MK-5010T SUPERMATIC BLOCK SAW 60 HZ/230V P/N 166930

FIGURE 2 - MK-5010T SUPERMATIC BLOCK SAW 60 HZ/230V P/N 166930

ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 3/8-16	101188	5
2	ASSY, PUMP, 300GPH 230V 50HZ/60HZ	114769-MK	1
3	KEY, 1/4 SQR X 1-3/4	150796	1
4	HOSE, WATER VINYL, 3/8 X 1/2 (72.0")	150845	1
5	SCREW, HEX HD, 3/8-16 X 1-3/4	150920	4
6	WASHER, FLAT, SAE, 3/8	150923	9
7	WASHER, LOCK, SPLIT, 3/8	150925	8
8	SCREW, SET, CUP PT, 5/16-18 X 3/16	151167	8
9	CLAMP, HOSE, 5/8	151198	2
10	SCREW, HEX HD, 5/16-18X1	151743	4
11	WASHER, LOCK, SPLIT, 5/16	151747	4
12	WASHER, FLAT, SAE, 5/16	151754	4
13	SCREW, HEX HD CAP, 3/8-16 X 1	152507	2
14	BOLT, 3/8-16 X 2-1/2 HEX HEAD TAP	155589	2
15	BELT, 16J610	156551	1
16	WASHER, SQR, 7/16 X 1-1/4 X 3/16	157567	4
17	CSTG, 5000 OUTER BELT GRD-COMP	159954	1
18	PULLEY, 16J25 X 1-3/8 BORE	161135	1
19	CASTING, INNER BLT GRD-COMP	162516	1
20	PULLEY, 16J25 X 1-3/8 BORE	165795	1
21	ASSY, TABLE, DELUXE	165991	1
22	KEY, 5/16 SQR X 1-1/2	167581	1
23	ASSY, BASE, HVY DTY SUPERMATIC	172446-S	1
24	ASSY, MTR, 10HP 230V 3PH 1715RPM, EM3714T	172448	1

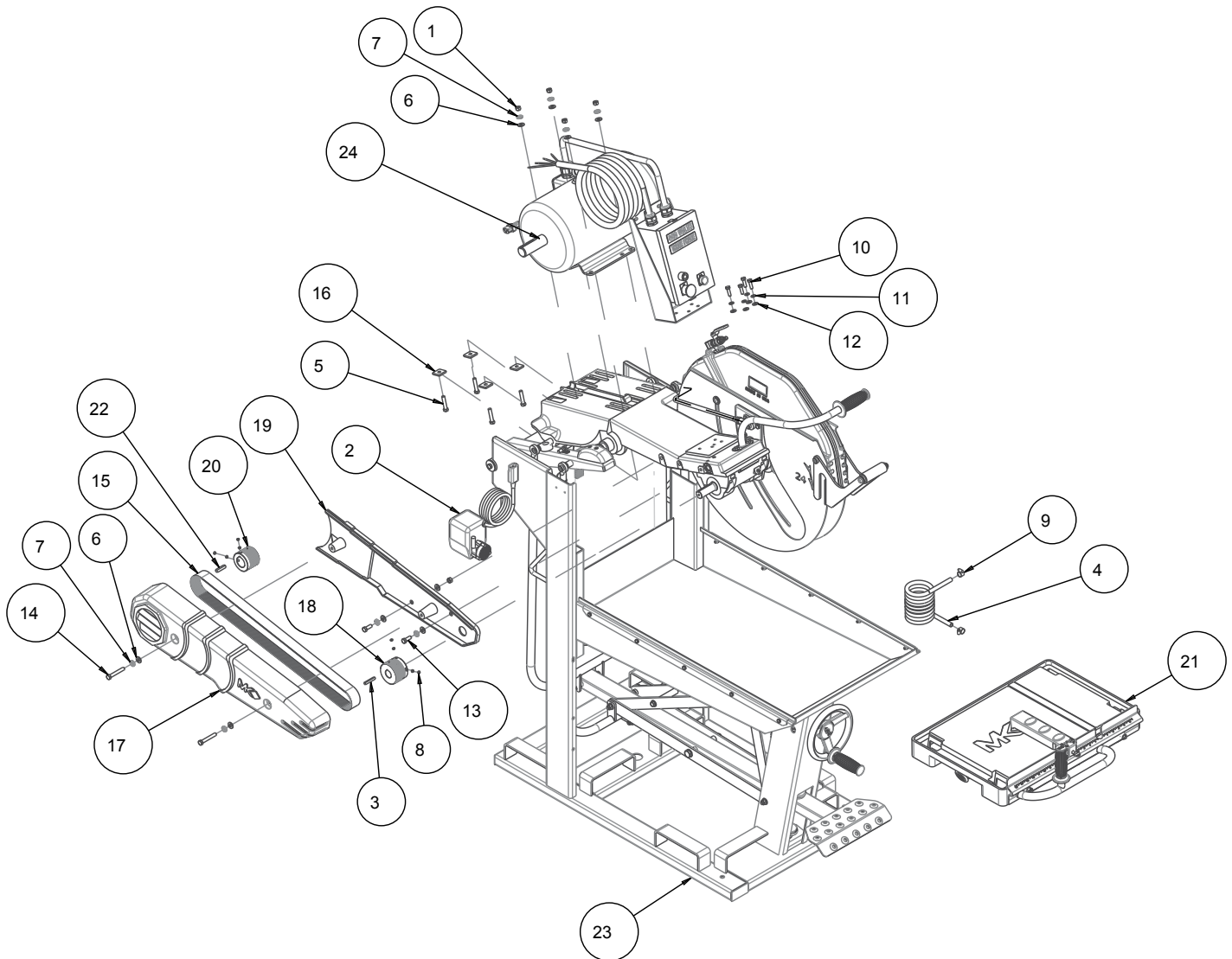
FIGURE 3 - MK-5010T SUPERMATIC BLOCK SAW 60 HZ/460V P/N 166931

FIGURE 3 - MK-5010T SUPERMATIC BLOCK SAW 60 HZ/460V P/N 166931

ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 3/8-16	101188	5
2	ASSY, PUMP, 300GPH 230V 50HZ/60HZ	114769-MK	1
3	KEY, 1/4 SQR X 1-3/4	150796	1
4	HOSE, WATER VINYL, 3/8 X 1/2 (72.0")	150845	1
5	SCREW, HEX HD, 3/8-16 X 1-3/4	150920	4
6	WASHER, FLAT, SAE, 3/8	150923	9
7	WASHER, LOCK, SPLIT, 3/8	150925	8
8	SCREW, SET, CUP PT, 5/16-18 X 3/16	151167	8
9	CLAMP, HOSE, 5/8	151198	2
10	SCREW, HEX HD, 5/16-18X1	151743	4
11	WASHER, LOCK, SPLIT, 5/16	151747	4
12	WASHER, FLAT, SAE, 5/16	151754	4
13	SCREW, HEX HD CAP, 3/8-16 X 1	152507	2
14	BOLT, 3/8-16 X 2-1/2 HEX HEAD TAP	155589	2
15	BELT, 16J610	156551	1
16	WASHER, SQR, 7/16 X 1-1/4 X 3/16	157567	4
17	CSTG, 5000 OUTER BELT GRD-COMP	159954	1
18	PULLEY, 16J25 X 1-3/8 BORE	161135	1
19	CASTING, INNER BLT GRD-COMP	162516	1
20	PULLEY, 16J25 X 1-3/8 BORE	165795	1
21	ASSY, TABLE, DELUXE	165991	1
22	KEY, 5/16 SQR X 1-1/2	167581	1
23	ASSY, BASE, HVY DTY SUPERMATIC	172446-S	1
24	ASSY, MTR, 10HP 460V 3PH 1715RPM, EM3714T	172448-460	1

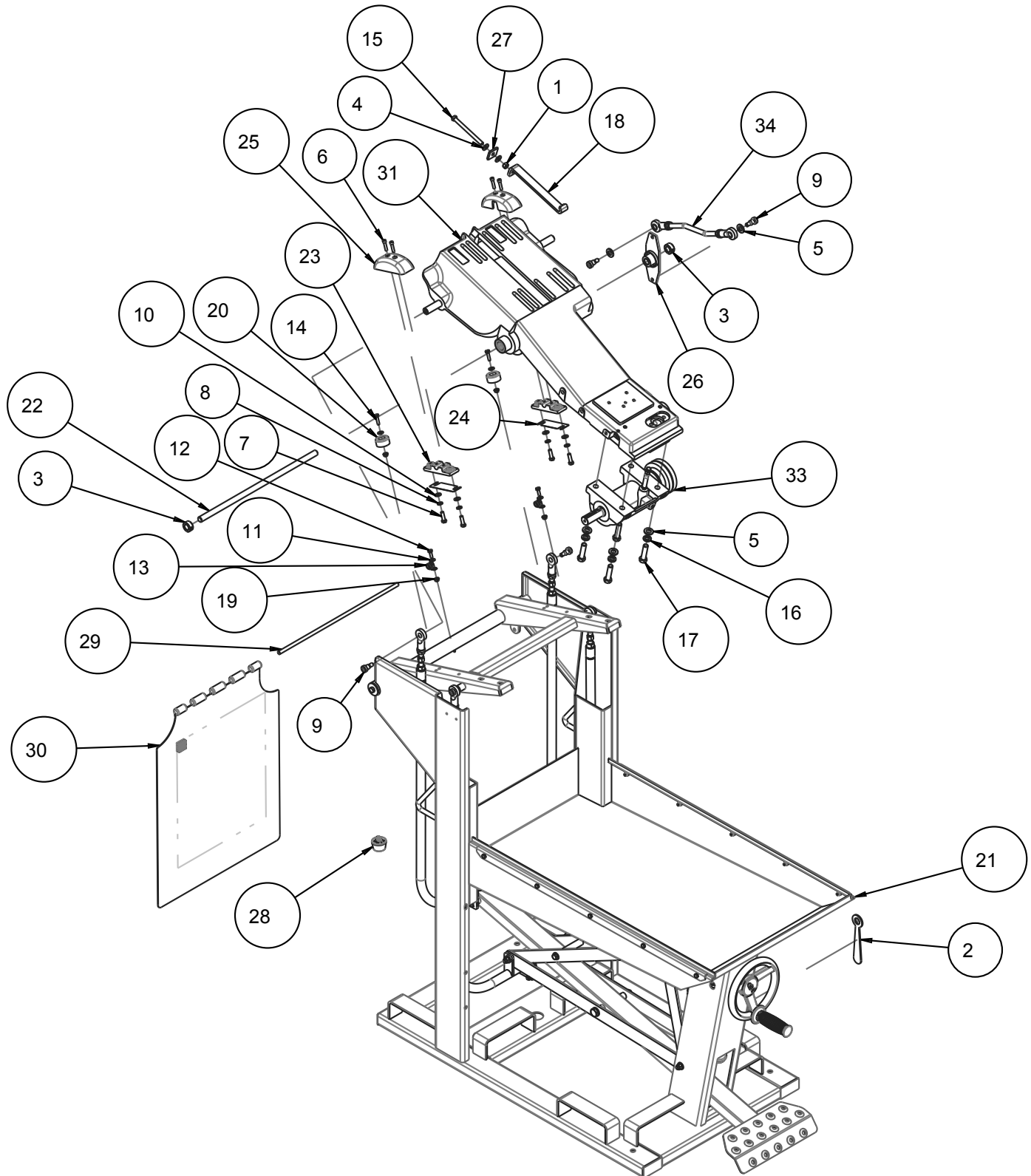


FIGURE 4 - MK-5000 ASSY, BASE, HEAVY DUTY PARENT P/N 172446

ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 3/8-16	101188	1
2	WRENCH, 3/4 BOX END	134056	1
3	COLLAR, 1.13 ODX.625ID .5 WIDE	140012	2
4	WASHER, FLAT, SAE, 3/8	150923	2
5	WASHER, 1/2 SAE FLAT	150924	6
6	SCREW, SOC HD CAP, 1/4-20 X 1	151049	4
7	SCREW, HEX HD, 5/16 -18 X 1	151743	4
8	WASHER, LOCK, SPLIT, 5/16	151747	4
9	SCREW, SHOULDER, 1/2X 1/2	151753	4
10	WASHER, FLAT, SAE, 5/16	151754	4
11	WASHER, FLAT, SAE, 1/4	151915	4
12	SCREW, HEX HD, 1/4 - 20 X3/4	152370	2
13	CLAMP, CUSHION LOOP 3/8	152592	2
14	SCREW, HEX HD, TAP, 1/4-20 X 1	152676	2
15	SCREW, HEX HD, TAP, 3/8 -16 X 4-1/2	153110	1
16	WASHER, 1/2 SPLIT LOCK	153524	4
17	SCREW, HEX HD 1/2-13X2	153533	4
18	STRAP, MOTOR ADJUSTMENT	153611	1
19	NUT, HEX, TW, 1/4-20	153941	4
20	BUMPER, 1/4 ID X 1-1/2OD X 3/4	154496	2
21	ASSY, FRAME	154629	1
22	SHAFT, PIVOT, CUTTING HEAD	154828	1
23	PILLOW BLOCK (COMP)	155762	2
24	SHIM, .025 PILLOW BLOCK	155905	2
25	BLOCK COVER (COMP)	156265	2
26	CRANK, BELL	157426	1
27	WASHER, SQR, 7/16 X 1-1/4 X 3/16	157567	1
28	DRAIN PLUG, W/RING	159529	1
29	ROD, SPLASH CURTAIN	160711	1
30	CURTAIN, SPLASH, MK-5000	160764	1
31	ASSY, CUTTING HEAD, HD	162546	1
32	OIL, 10-40 SAE MOTOR (1QT)	164970	1
33	ASSY, HD ARBOR	170951	1
34	ASSY, ARM, REAR	172537	1

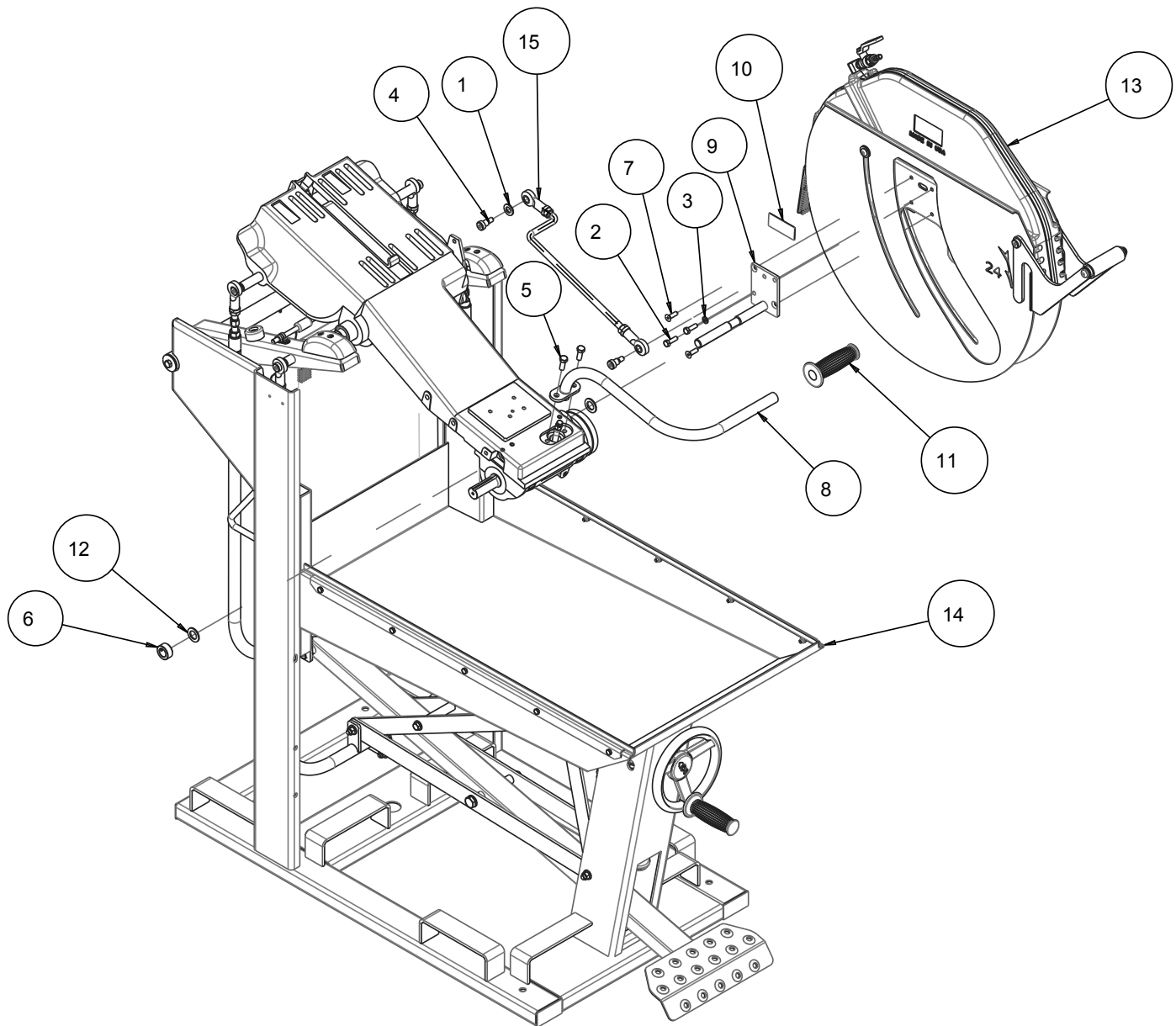
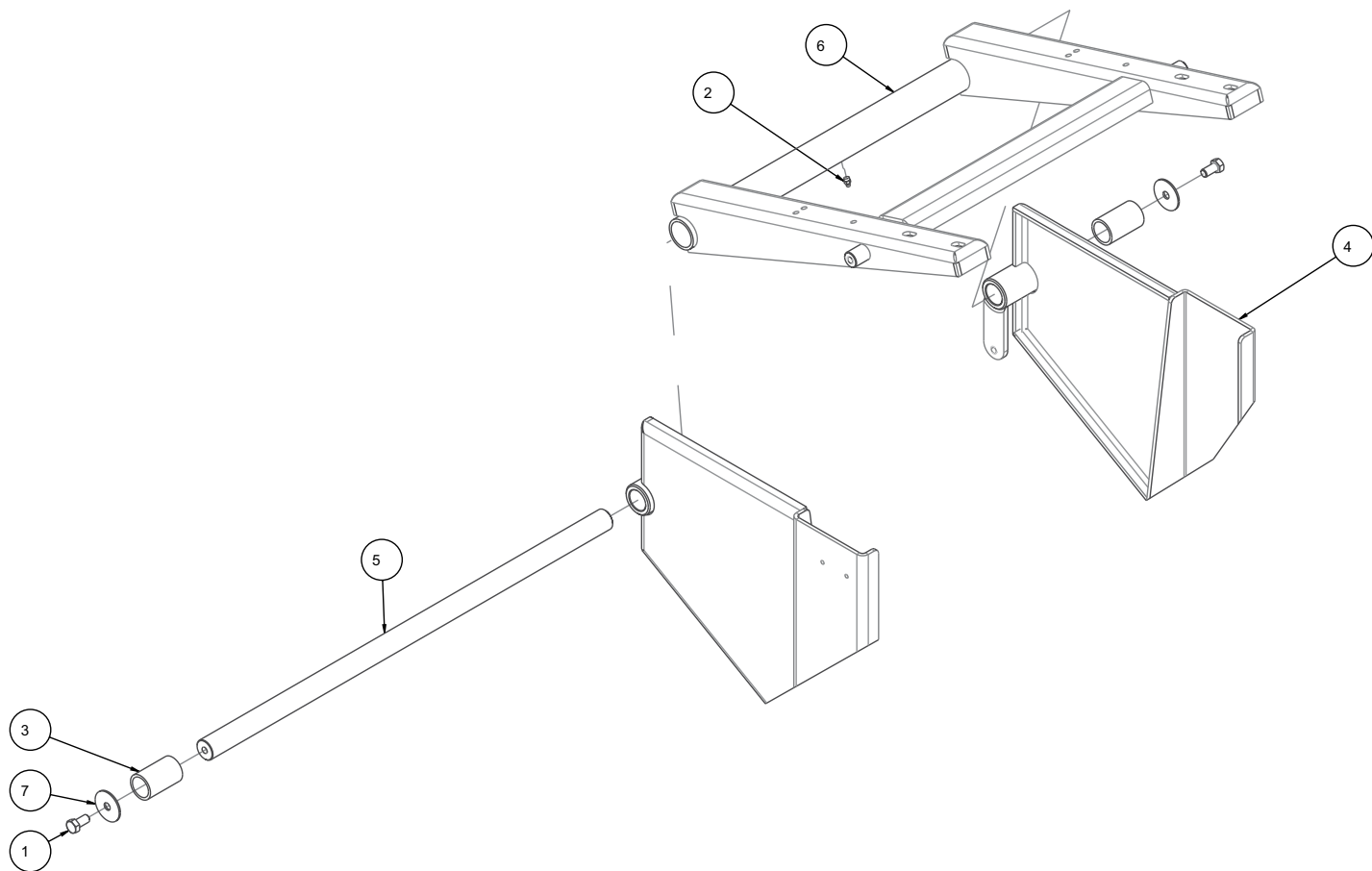
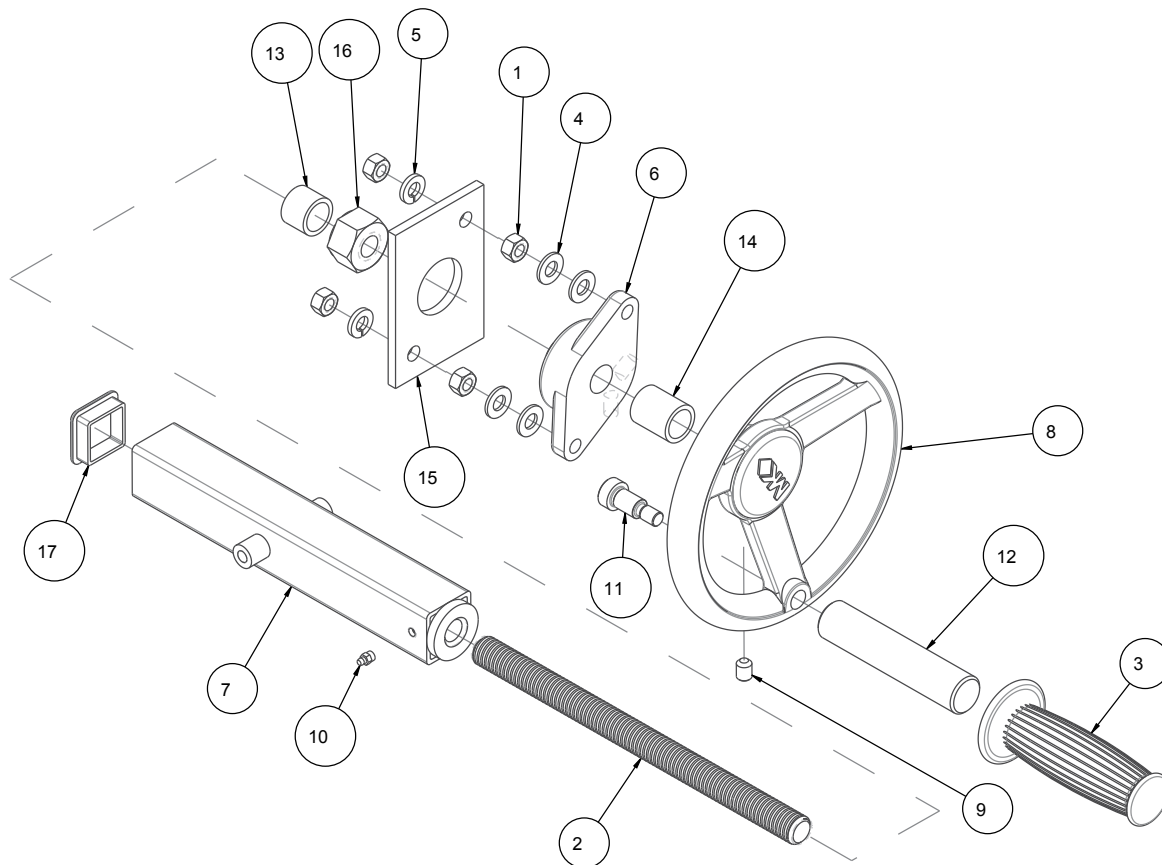
FIGURE 5 - MK-5000 ASSY, BASE, HEAVY DUTY SUPERMATIC P/N 172446-S

FIGURE 5 - MK-5000 ASSY, BASE, HEAVY DUTY SUPERMATIC P/N 172446-S

ITEM	DESCRIPTION	PART #	QTY
1	WASHER, 1/2 SAE FLAT	150924	1
2	SCREW, HEX HD, 5/16 -18 X 1	151743	2
3	WASHER, LOCK, SPLIT, 5/16	151747	1
4	SCREW, SHOULDER, 1/2 X 1/2	151753	2
5	SCREW, HEX HD CAP, 3/8-16 X 1	152507	2
6	COLLAR, SET, 3/4"	153814	1
7	SCREW, 5/16-18 X 1.0 FLAT HEAD SOCKET	155552	2
8	HANDLE, CUTTING HEAD MK5000 24"	155613	1
9	SHAFT, BLADE GUARD PIVOT	155886	1
10	TAG, SERIAL NUMBER, BLANK	157500-RW	1
11	GRIP, HANDLE 7/8 ID	158608	1
12	WASHER, FLAT, PLAS, .75 X1.25 X .080	160827	2
13	ASSY, BLADE, GUARD, DLX 24"	165994-24	1
14	ASSY, BASE, HVY DTY PARENT	172446	1
15	ASSY, ARM, FRONT	172538	1

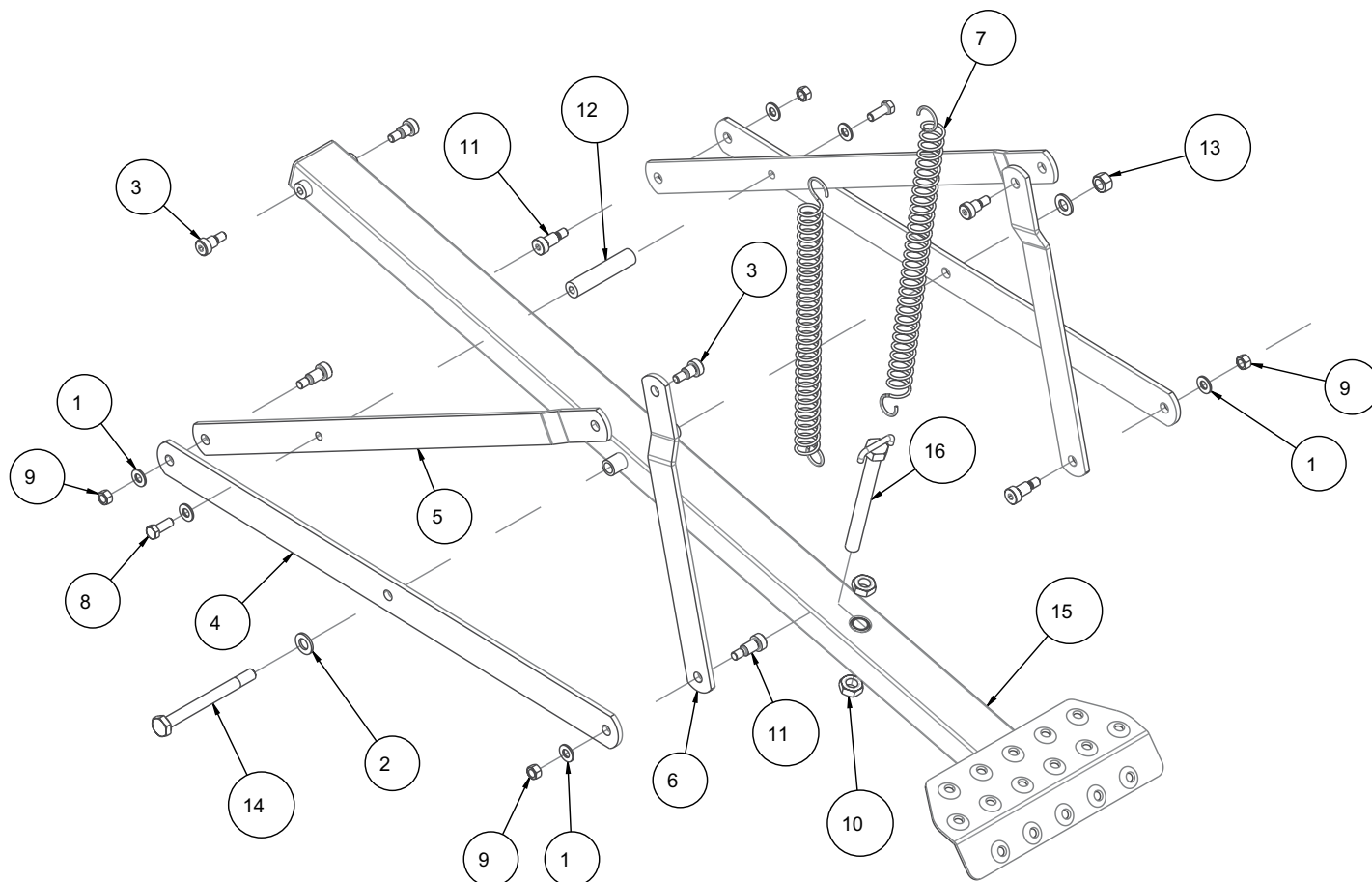
FIGURE 6 - MK-5000 ASSY, BLOCK SAW ELEVATOR ARM P/N 154629

ITEM	DESCRIPTION	PART #	QTY
1	SCREW, HEX, 3/8 - 16 X 3/4	153527	2
2	FITTING, 1/4 - 28 GREASE	153852	1
3	BEARING, 1 X 1-1/4 X 2 MSI MK-5000	154571	2
4	WELDMENT, FRAME	155541	1
5	PIVOT SHAFT, ELEV. ARM	155880	1
6	WELDMENT, ELEVATION ARM MK5000	156285	1
7	WASHER, FENDER, 3/8 ID X 1-1/2 OD	158523	2

FIGURE 7 - MK-5000 ASSY, BLOCK SAW DEPTH CONTROL P/N 154629

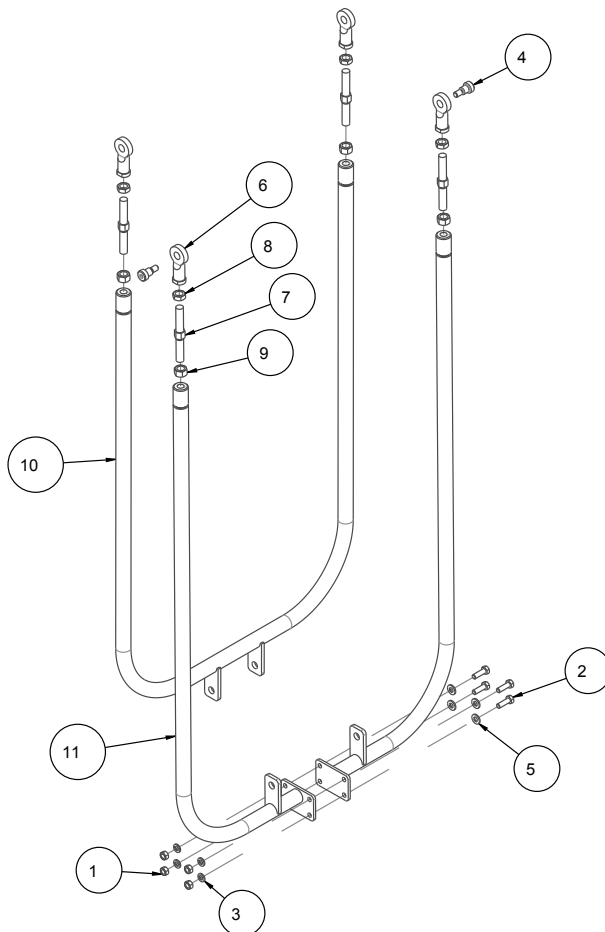
ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 3/8 - 16	101188	4
2	SCREW, 3/4-6 DEPTH CONTROL	150840	1
3	GRIP, HANDLE, 1.0 ID	150842	1
4	WASHER, FLAT, SAE, 3/8	150923	4
5	WASHER, LOCK, SPLIT, 3/8	150925	2
6	BEARING, 3/4 ID FLANGE (COMP)	152025	1
7	ADJ SHAFT TUBE	152116	1
8	CRANK WHEEL, 3/4-6-PLASTIC COMP	153646	1
9	SCREW, SET, SOC, CUPT, 3/8-16 X 1/2	153710	1
10	FITTING, 1/4-28 GREASE	153852	1
11	SCREW, SHLDR, SOC HD, 1/2 X 3/4	156177	1
12	HANDLE, CRANK WHEEL	156236	1
13	SPACER, ADJ. SHAFT	156249	1
14	SPACER, DEPTH FEED WHEEL	156250	1
15	SUPPORT PLATE, BEARING	156278	1
16	NUT, ACME, STANDARD 3/4-6	158227	1
17	PLUG, SQUARE, 1- 1/2-10-14	161165	1

FIGURE 8 - MK-5000 ASSY, BLOCK SAW FOOTPEDAL P/N 154629

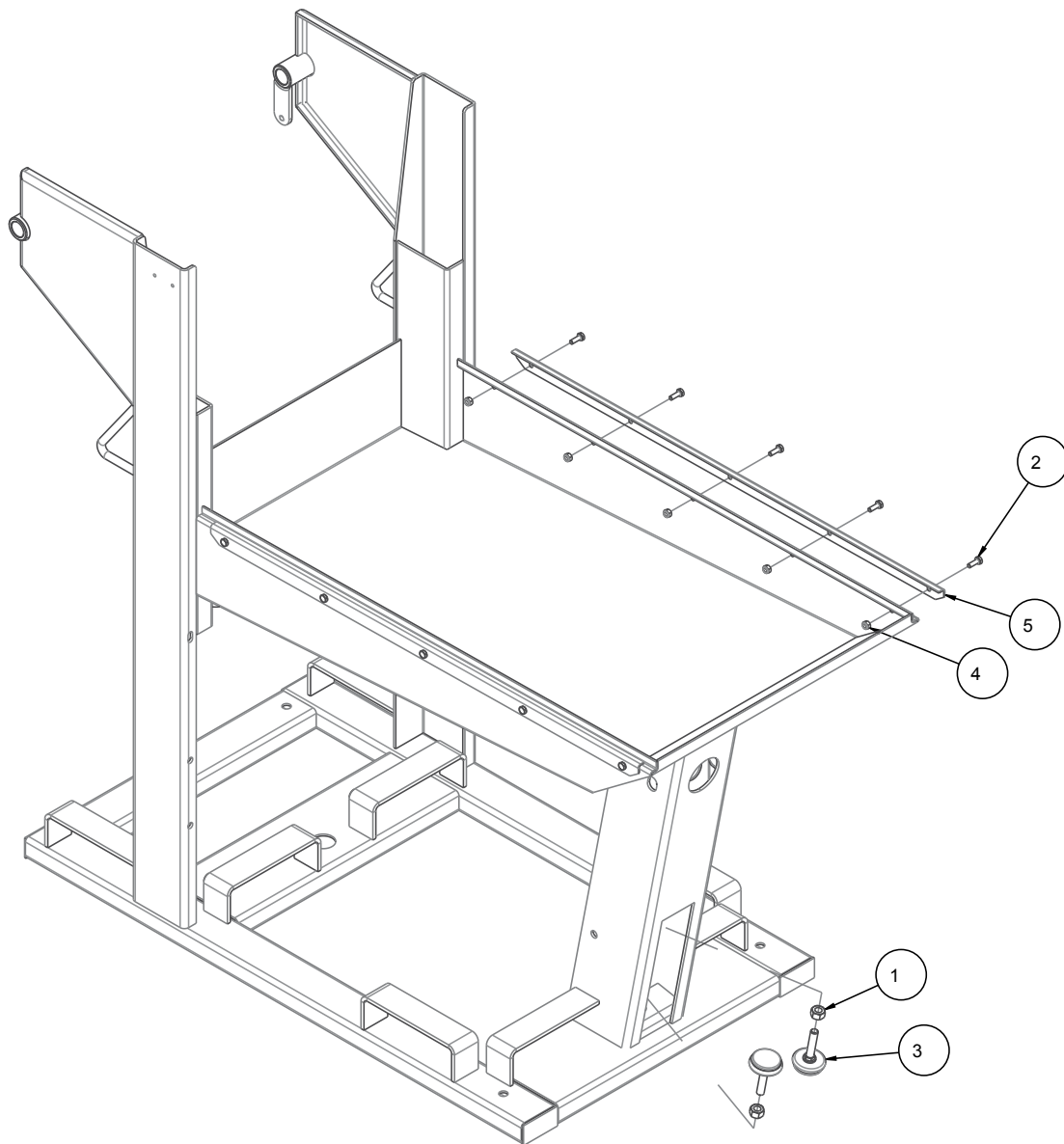


ITEM	DESCRIPTION	PART #	QTY
1	WASHER, FLAT, SAE, 3/8	150923	6
2	WASHER, 1/2 SAE FLAT	150924	2
3	SCREW, SHOULDER, 1/2 X 1/2	151753	4
4	LINKAGE, PEDAL HORIZONTAL	152112	2
5	LINKAGE, PEDAL DIAGONAL	152113	2
6	LINKAGE, PEDAL VERTICAL	152114	2
7	SPRING, FOOT PEDAL MK5000	152115	2
8	SCREW, HEX HD CAP, 3/8-16 X 1	152507	2
9	NUT, 3/816 HEX CENTERLOCK	153522	4
10	NUT, HEX AM 5/8-11 UNC	155603	2
11	SCREW, SHLDR, SOC HD, 1/2 X 3/4	156177	4
12	PEDAL, SHAFT TIE	156259	1
13	NUT, 1/2-13 CENTERLOCK HEX	156279	1
14	SCREW, HEX HD CAP 1/2-13 X 5-1/2	158526	1
15	PEDAL, FOOT & BAR	160139	1
16	HOOK BOLT, WELDMENT, ASSY	160141	1

FIGURE 9 - MK-5000 ASSY, BLOCK SAW LINKS P/N 154629

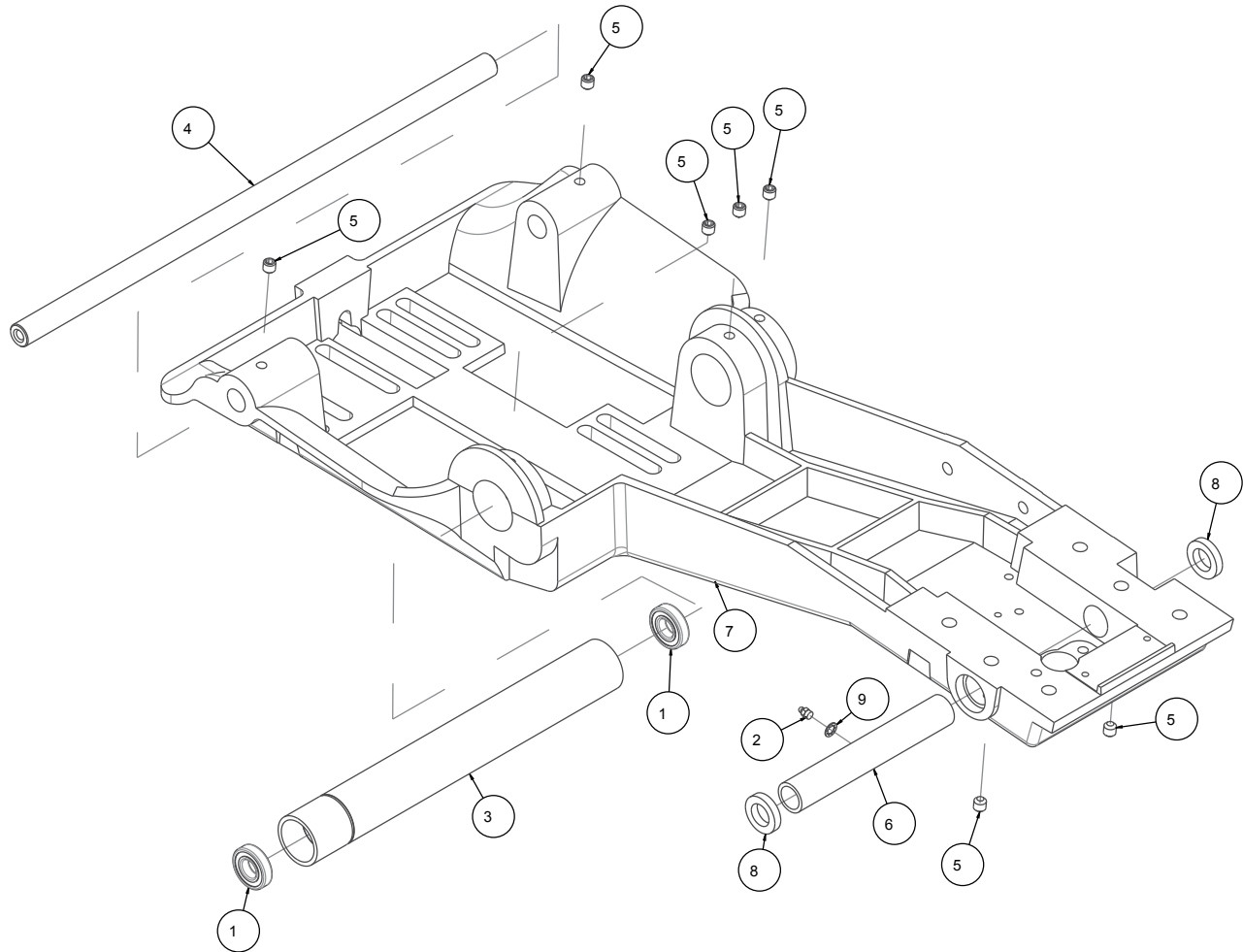


ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 5/16-18	101196	4
2	SCREW, HEX HD, 5/16-18X1	151743	4
3	WASHER, LOCK, SPLIT, 5/16	151747	4
4	SCREW, SHOULDER, 1/2 X 1/2	151753	2
5	WASHER, FLAT, SAE, 5/16	151754	4
6	JOINT, SPHERICAL FEM. 1/2-20RH	154387	4
7	SCREW, ADJUSTMENT	154433	4
8	NUT, JAM, 1/2-20	154460	4
9	JAM NUT 1/2-20 (LH)	154461	4
10	LINK, REAR CONNECTING	156252	1
11	LINK, FRONT CONNECTING	156253	2

FIGURE 10 - MK-5000 ASSY, BLOCK SAW FRAME RAILS P/N 154629

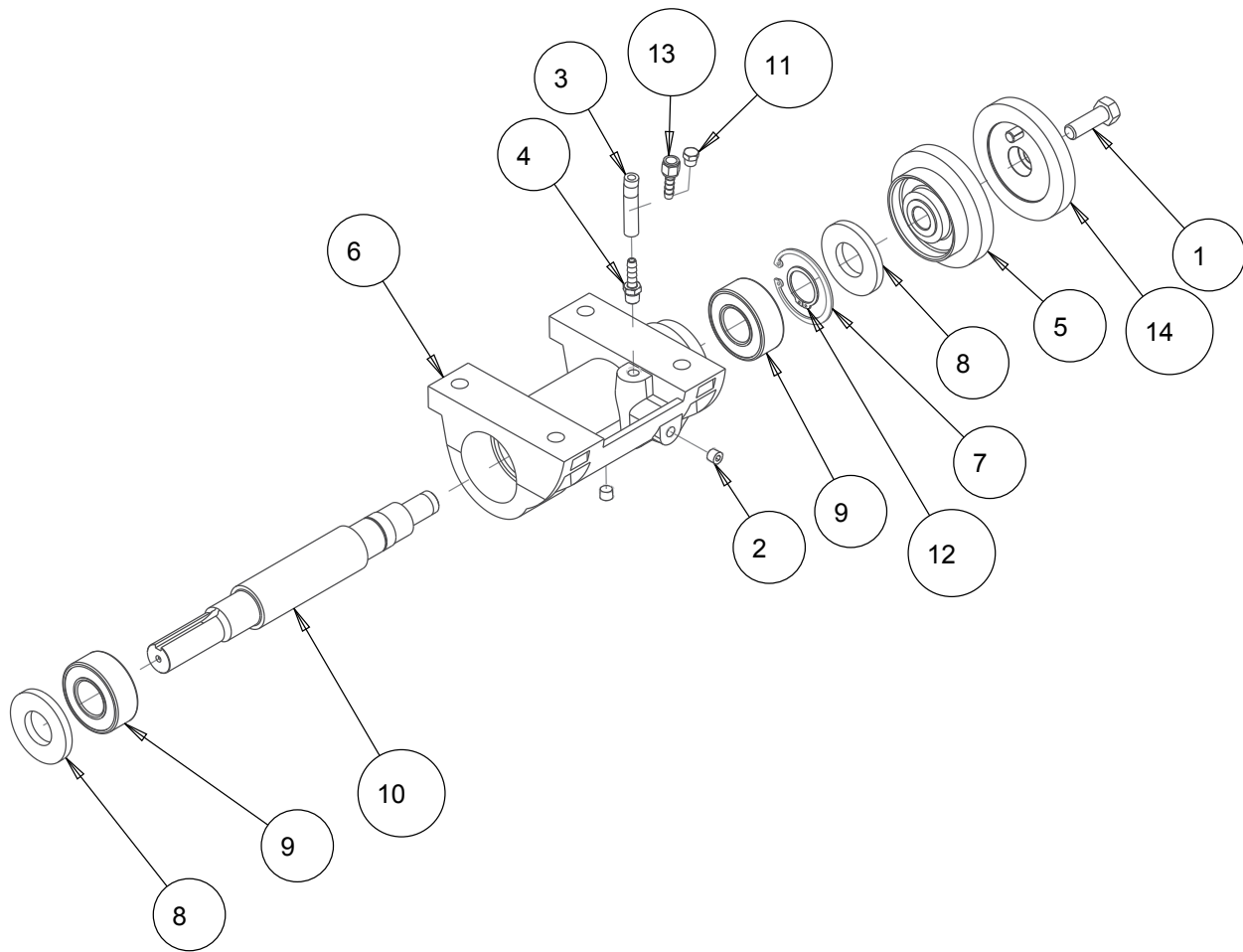
ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX, 1/2-13	151282	2
2	SCREW, HEX HD, 1/4-20 X 3/4	152370	10
3	BUMPER, 1-1/2 DIA. X 1/2 -13 X 3 STUD	158605	2
4	NUT, HEX, NYLK, 1/4 -20	159857	10
5	LINER, RAIL	166934	2

FIGURE 11 - ASSY, CUTTING HEAD P/N 162546

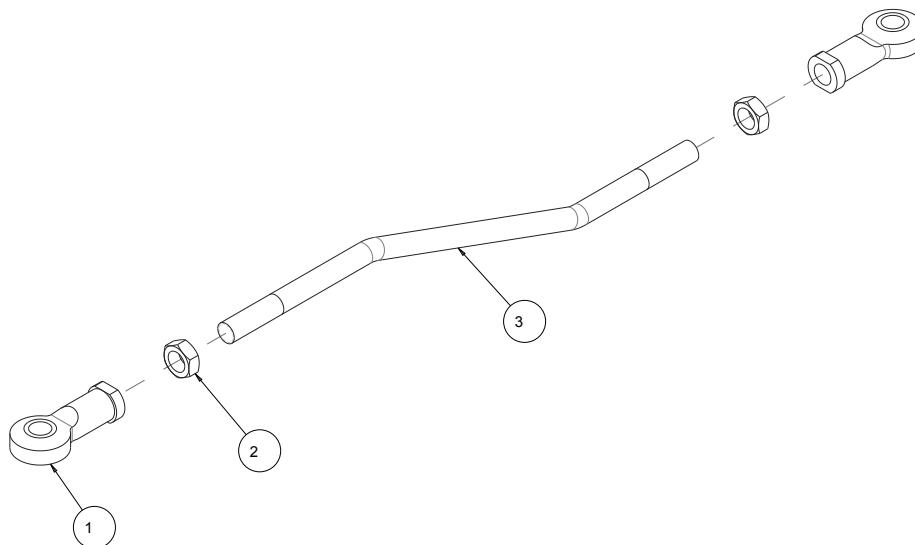


ITEM	DESCRIPTION	PART #	QTY
1	BEARING, CUTTING HD PIV	140004	2
2	FITTING, 1/4-28 GREASE	153852	1
3	HOUSING, PIVOT SHAFT	154827	1
4	SHAFT, DEPTH ADJUST	154932	1
5	SCREW, 3/8 -16 X 3/8 SOCKET HEAD SET, CUP POINT	160713	7
6	HOUSING, SHAFT, CUTTING HEAD	160830	1
7	CASING, CUT, HD, Hvy DTY, COMP	160885	1
8	SEAL, 3/4 X 1-1/4 X 1/4	162489	2
9	WASHER, LOCK, IT, 1/4	162490	1

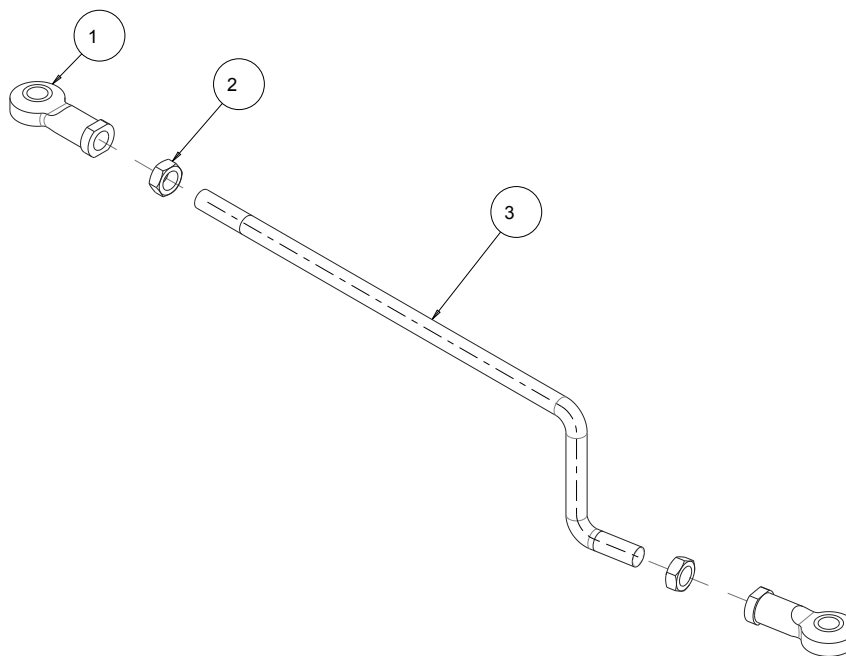
FIGURE 12 - MK-5000 ASSY, HD ARBOR P/N 170951



ITEM	DESCRIPTION	PART #	QTY
1	SCREW, HEX HD 1/2-20X1-1/4	152122	1
2	PLUG, 1/8NPT HEX SOCKET	152472	2
3	HOSE, 1/4 FUEL, 6"	154163	1
4	FITTING, 1/8 MNPT X 1/4 BARB	155809	1
5	FLANGE, INNER, MASONRY, 4"	161305	1
6	CASTING, SHAFT HOUSING - COMP	170944	1
7	RING, RET, INT, 65MM	170945	1
8	SEAL, OIL, 30MM X 62MM X 7MM	170946	2
9	BEARING, 30X62X23.8, D-ROW BALL	170947	2
10	SHAFT, HD ARBOR	170948	1
11	BREATHER, 1/8 FNPT	170949	1
12	RING, RET, EXT, 30MM	170950	1
13	FITTING, 1/8 FNPT X 1/4 BARB	171019	1
14	ASSY, FLANGE, OUTER, 4: MASONRY	171252	1

FIGURE 13 - MK-5000 ASSY, ARM, REAR P/N 172537

ITEM	DESCRIPTION	PART #	QTY
1	JOINT, SPHERICAL FEM. 1/2-20RH	154387	2
2	NUT, JAM, 1/2-20	154460	2
3	ARM, REAR CONNECTING	158563	1

FIGURE 14 - MK-5000 ASSY, ARM, FRONT P/N 172538

ITEM	DESCRIPTION	PART #	QTY
1	JOINT, SPHERICAL FEM. 1/2-20RH	154387	2
2	NUT, JAM, 1/2-20	154460	2
3	LINK ROD, BLADE GUARD	158564	1

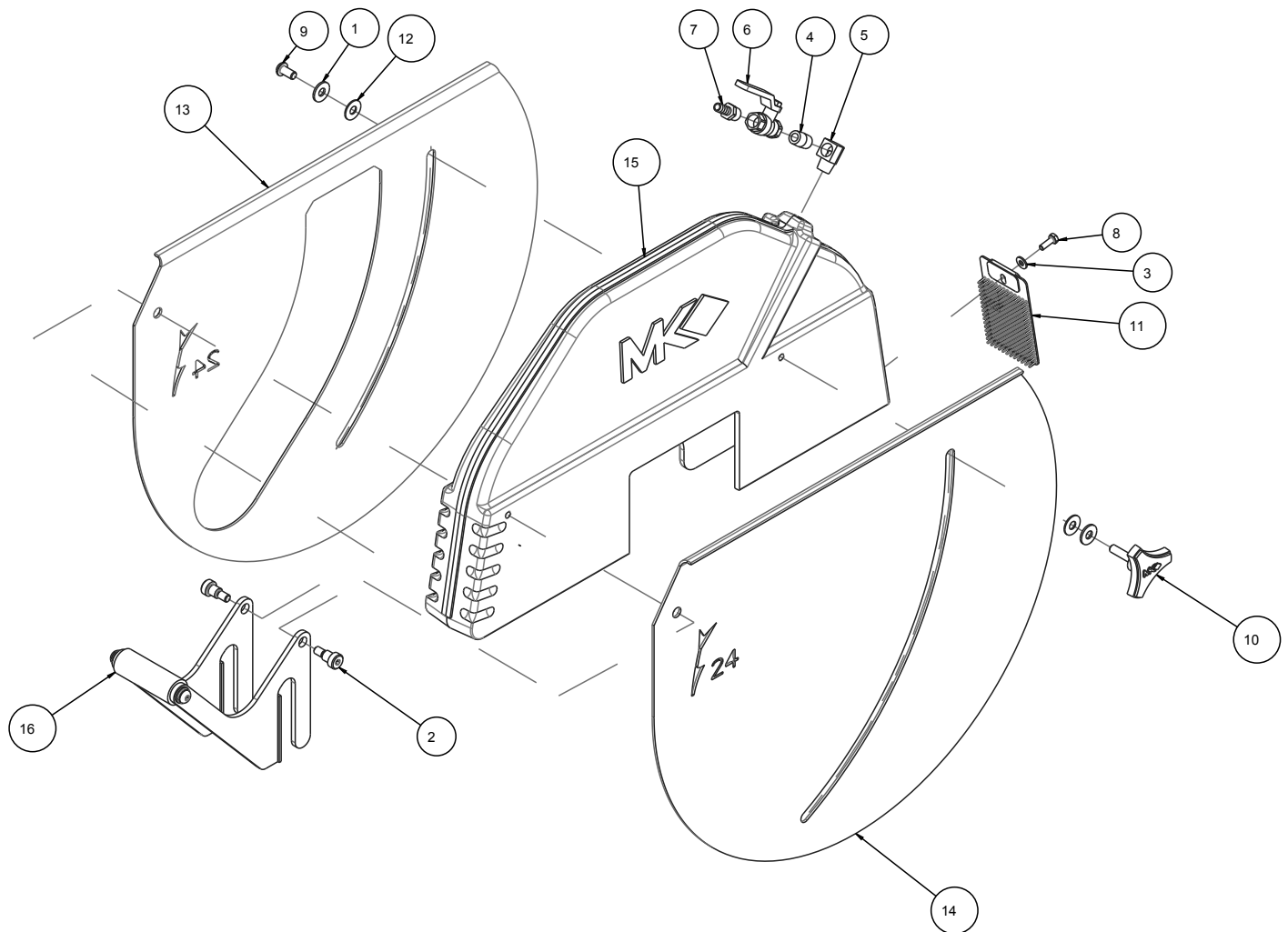
FIGURE 15 - ASSY, BLADE, GUARD, DLX 24" P/N 165994-24

FIGURE 15 - ASSY, BLADE, GUARD, DLX 24" P/N 165994-24

ITEM	DESCRIPTION	PART #	QTY
1	WASHER, FLAT, USS, 3/8	101360	2
2	SCREW, SHOULDER, 1/2 X 1/2	151753	1
3	WASHER, FLAT, SAE, 1/4	151915	1
4	NIPPLE, 3/8 MNPT X CLOSE	152073	1
5	ELBOW, STREET, 3/8 NPT X 90, BRASS	152074	1
6	VALVE, BALL 3/8"	152075	1
7	FITTING, 3/8 MNPT X 3/8 BARB	152076	1
8	SCREW, HEX HD, 1/4-20 X 3/4	152370	1
9	SCREW, BTN HD 3/8-16 X 3/4 SOCK	156635	1
10	KNOB, TRI PLASTIC MK-660 1-1/2	156770-02	1
11	GUARD, SPLASH	160310	1
12	WASHER, 1 X 13/32 X 06 PLASTIC	162625	2
13	GUARD, BLADE, LOWER, LEFT	165798	1
14	GUARD, BLADE, LOWER, RIGHT	165799	1
15	CASTING, BLD GRD 24" DLX COMP	165807	1
16	ASSY, HANDLE, LOWER GUARD	165993	1

FIGURE 16 - MK-5000 ASSY, TABLE DELUXE P/N 165991

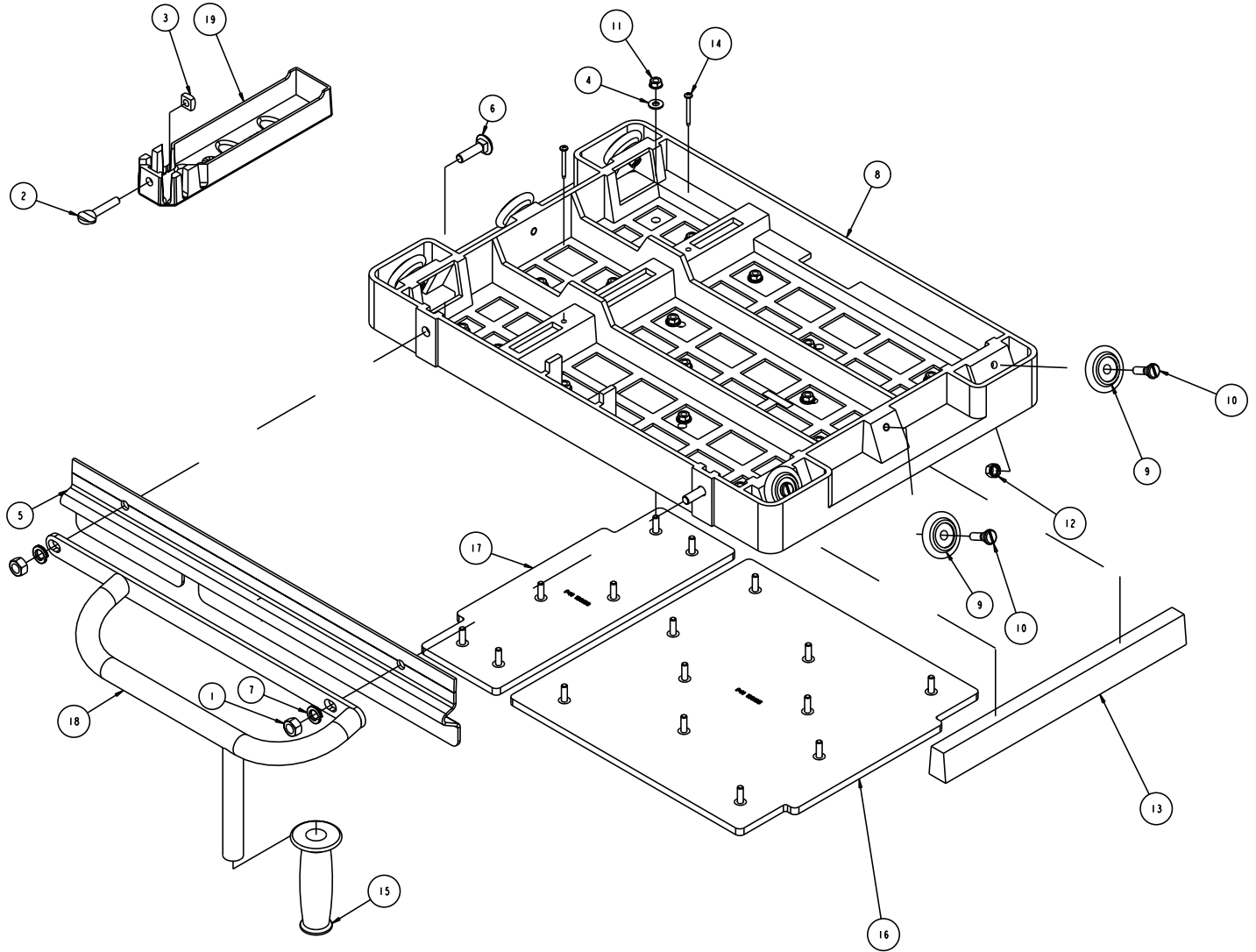
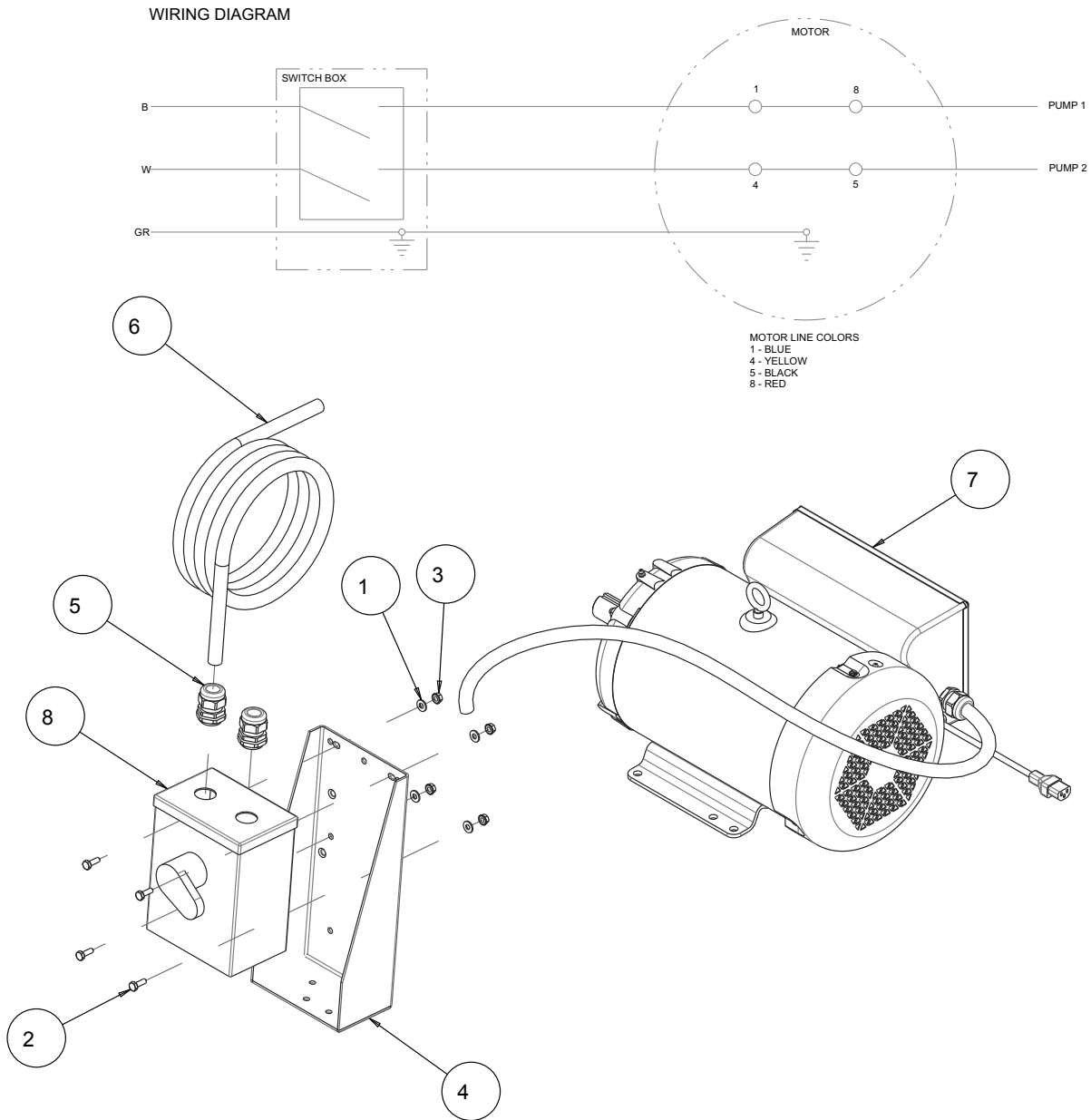
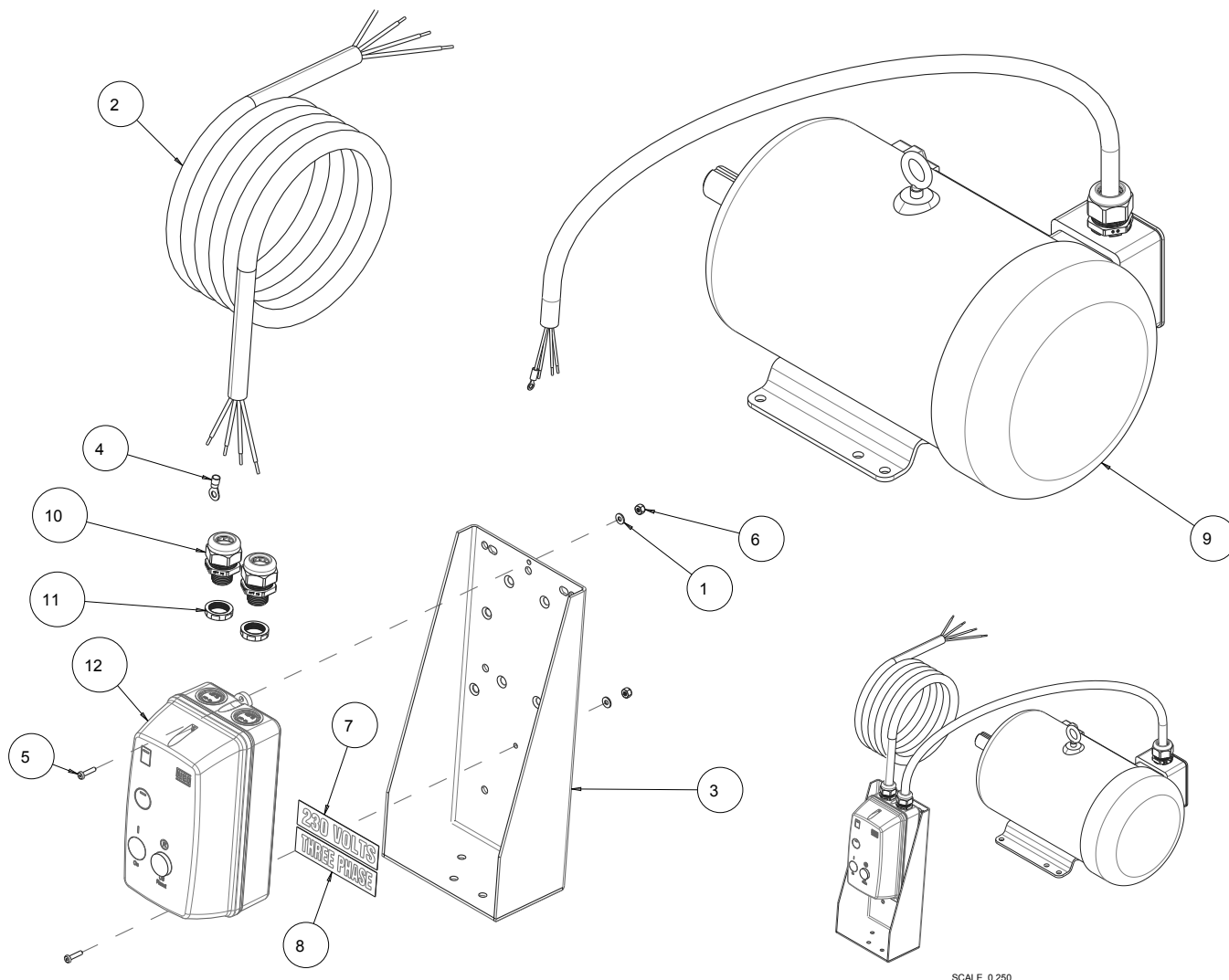


FIGURE 16 - MK-5000 ASSY, TABLE DELUXE P/N 165991

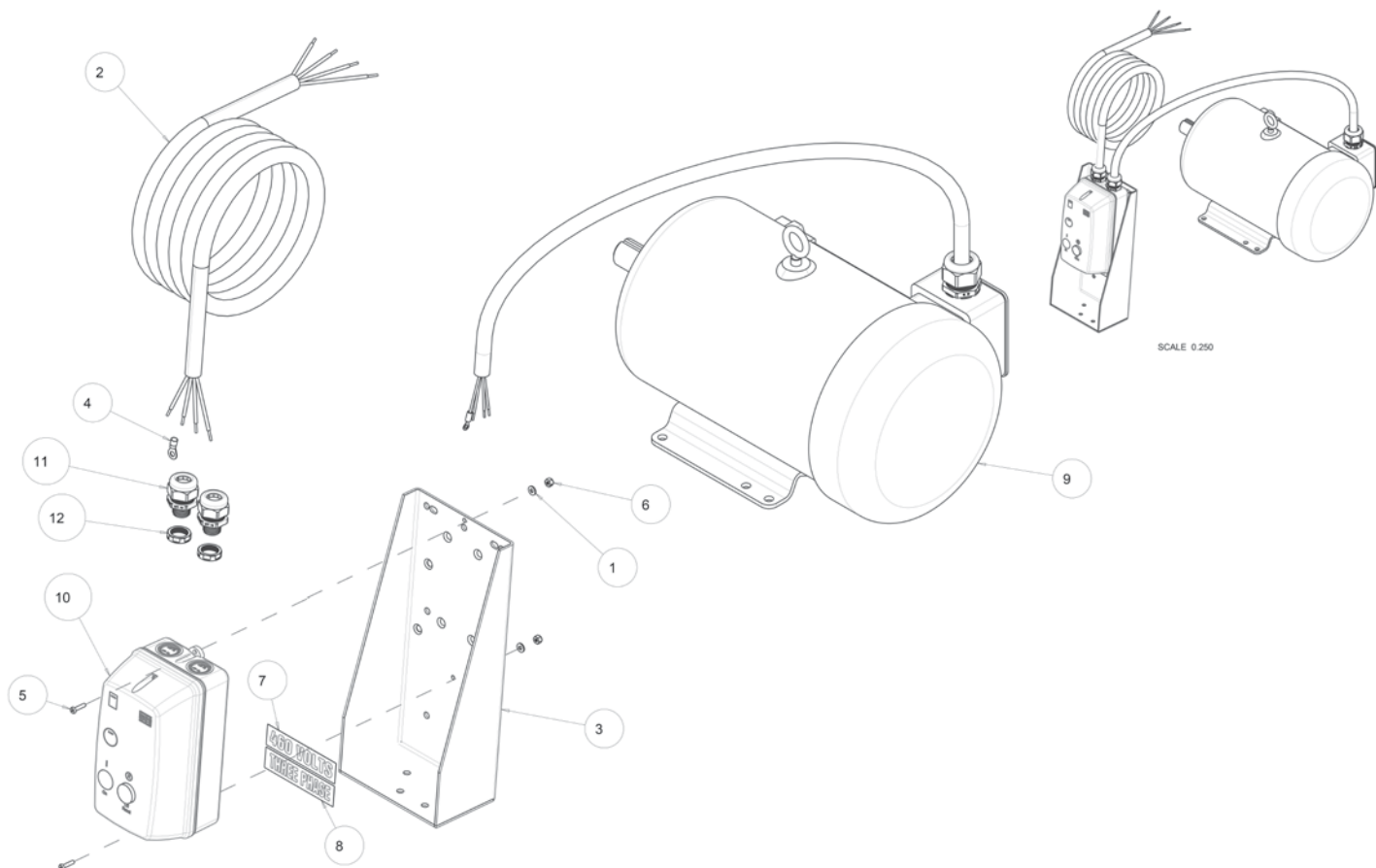
ITEM	DESCRIPTION	PART #	QTY
1	NUT, HEX 7/16-14	150922	2
2	SCREW, THUMB 5/16-18X1-1/2	151155	1
3	NUT, SQUARE 5/16-18	151156	1
4	WASHER, FLAT, SAE, 1/4	151915	16
5	RULE, FRONT, STOP	152126	1
6	BOLT, CARR. 7/16 - 14 X 1-1/4	152423	2
7	WASHER, LOCK, SPLIT 7/16	152424	2
8	CASTING, 5000, TABLE-COMP	152455	1
9	WHEEL, ROLLER MK5000, MK1080	152493	6
10	STUD, ROLLER WHEEL	152494	6
11	NUT, HEX, W/WSHR, 1/4-20	153941	16
12	NUT, HEX, TW, 5/16-18	153942	4
13	WOOD STRIP, TABLE INSERT	157748	1
14	SCREW, #8 X 1-1/2 FLAT HD PHIL	158157	2
15	GRIP, HANDLE 7/8 ID	158608	1
16	MAT, MK-5000 TABLE-LG	160165	1
17	MAT, MK-5000 TABLE-SM	160166	1
18	HANDLE, TABLE	165990-L	1
19	CASTING, SQUARING ARM-COMP	231276	1

FIGURE 17 - MK-5000 ASSY, MOTOR, 10HP 230V1 PH 1725RPM L3712T P/N 172447

ITEM	DESCRIPTION	PART #	QTY
1	WASHER, FLAT, SAE, 1/4	151915	4
2	SCREW, HEX HD, 1/4-20X3/4	152370	4
3	NUT, HEX, TW, 1/4-20	153941	4
4	BRACKET, SWITCH MTG	156492	1
5	CONNECTOR, CORD, LTF21	160675	2
6	CORD, ELEC, 8/3 SOOW (4.5 FT)	166275	1
7	CORD, ELEC, 8/3 SOOW (10.5 FT)	166275	1
8	MTR, 10HP 230V 60HZ 1 PH 1725RPM-COMP	172554	1
9	SWITCH, 60A/10HP/240V W/ENCL-COMP	172560	1

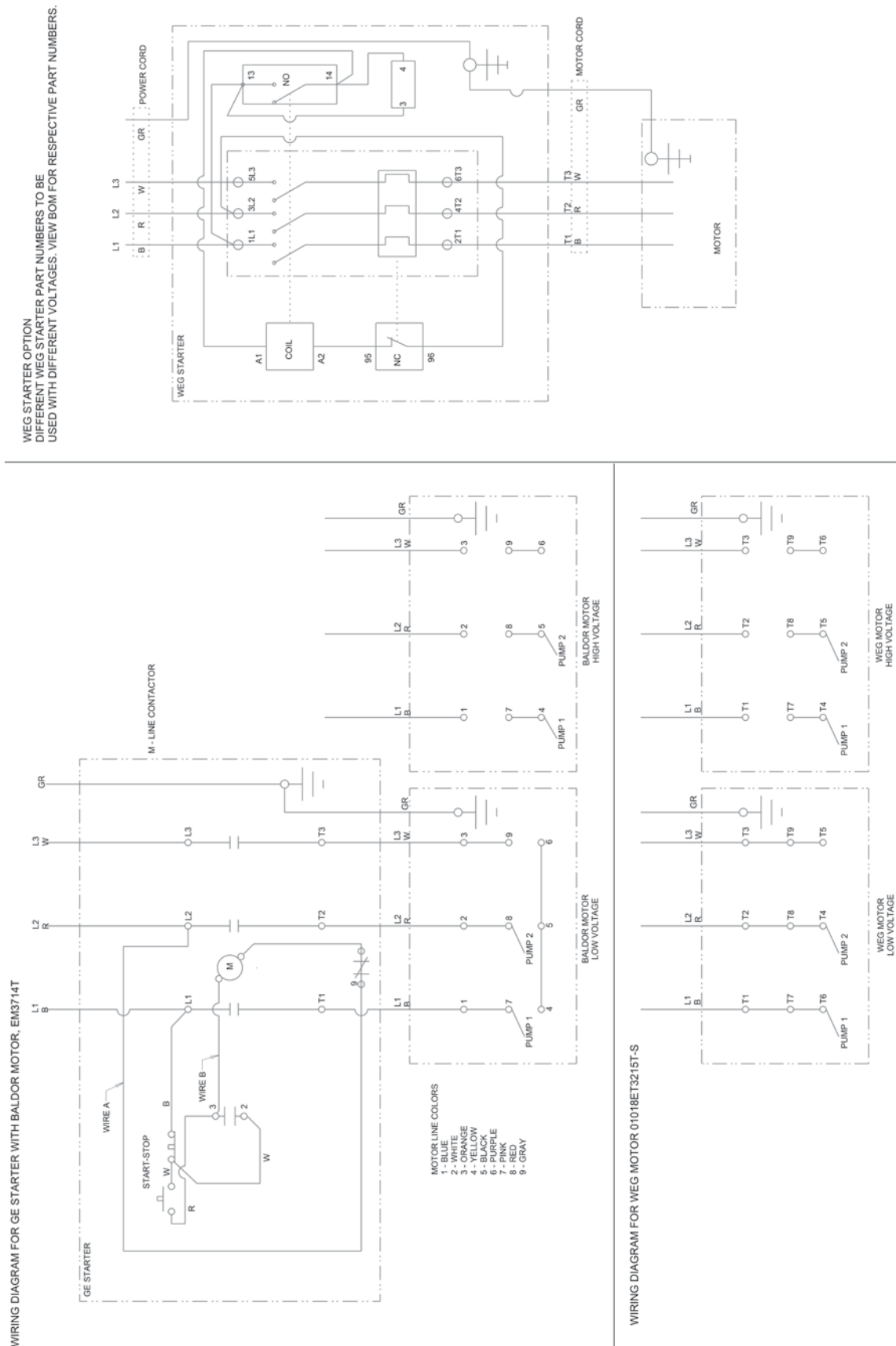
FIGURE 18 - MK-5000 ASSY, MOTOR, 10HP 230V 3 PH 1725RPM, EM3714T P/N 172772

ITEM	DESCRIPTION	PART #	QTY
1	WASHER,FLAT,SAE,#8	155454	2
2	CORD, ELEC. 10/4 SEOW, YELLOW (10 FT)	156215	1
3	BRACKET, SWITCH MTG	156492	1
4	TERMINAL, 12-10 X 1/4 RING PI	162471	1
5	SCREW,BTTN,ALN,CAP,#8-32X3/4	162557	2
6	NUT, HEX, NYLK, 8-32	165227	2
7	LABEL, 230V	168652	1
8	LABEL, THREE PHASE	168655	1
9	MTR, 10HP 208-230/460V 3PH 1725RPM -COMP	172556	1
10	CONNECTOR, CORD, LTF 3/4	172738	2
11	NUT, STRN RLF, PLAS, 3/4NPT	172886	2
12	STARTER, MTR, 10HP 230V 3PH WEG	172899	1

FIGURE 19 - MK-5000 ASSY, MOTOR, 10HP 460V 3PH 1725RPM, EM3714T P/N 172772-460

ITEM	DESCRIPTION	PART #	QTY
1	WASHER,FLAT,SAE,#8	155454	2
2	CORD, ELEC. 10/4 SEOW, YELLOW (10 FT)	156215	1
3	BRACKET, SWITCH MTG	156492	1
4	TERMINAL, 12-10 X 1/4 RING PI	162471	1
5	SCREW,BTTN,ALN,CAP,#8-32X3/4	162557	2
6	NUT, HEX, NYLK, 8-32	165227	2
7	LABEL, 460V	168653	1
8	LABEL, THREE PHASE	168655	1
9	MTR, 10HP 208-230/460V 3PH 1725RPM -COMP	172556	1
10	STARTER, MTR, 10HP 460V 3PH WEG	172737	1
11	CONNECTOR, CORD, LTF 3/4	172738	2
12	NUT, STRN RLF, PLAS, 3/4NPT	172886	2

FIGURE 20 - MK-5010T WIRING DIAGRAM P/N 172772



NOTES

MK-5000
PARTS LIST & EXPLODED VIEWS



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