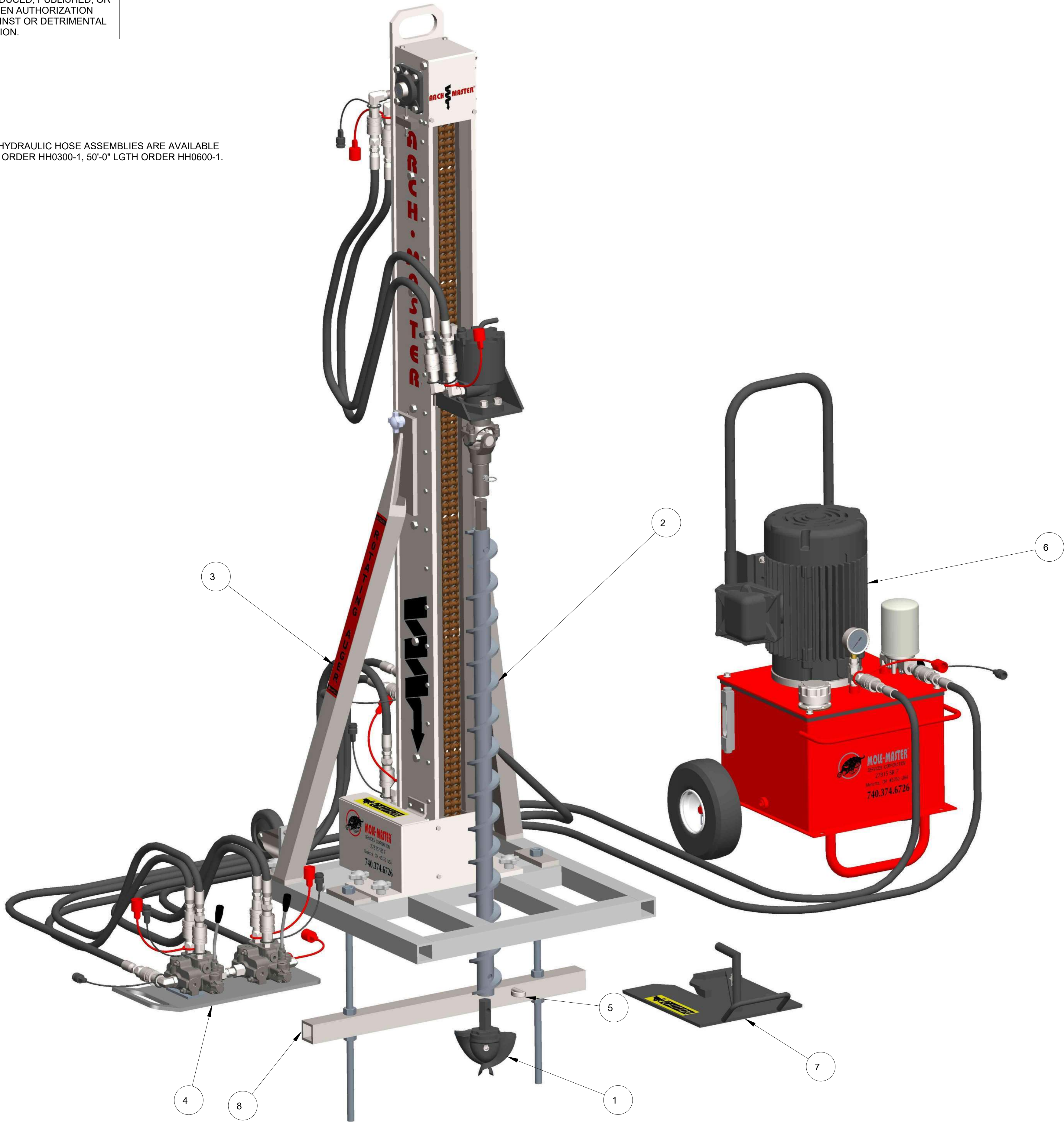


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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	AA2000-00 WAS AA1000-00/SP2000-00 WAS SP1000-00	09-10-18	EPP
B	RVSD CONTROL VALVE PART NUMBER	01-08-20	EPP

NOTE:
1. OPTIONAL HYDRAULIC HOSE ASSEMBLIES ARE AVAILABLE
25'-0" LGTH ORDER HH0300-1, 50'-0" LGTH ORDER HH0600-1.

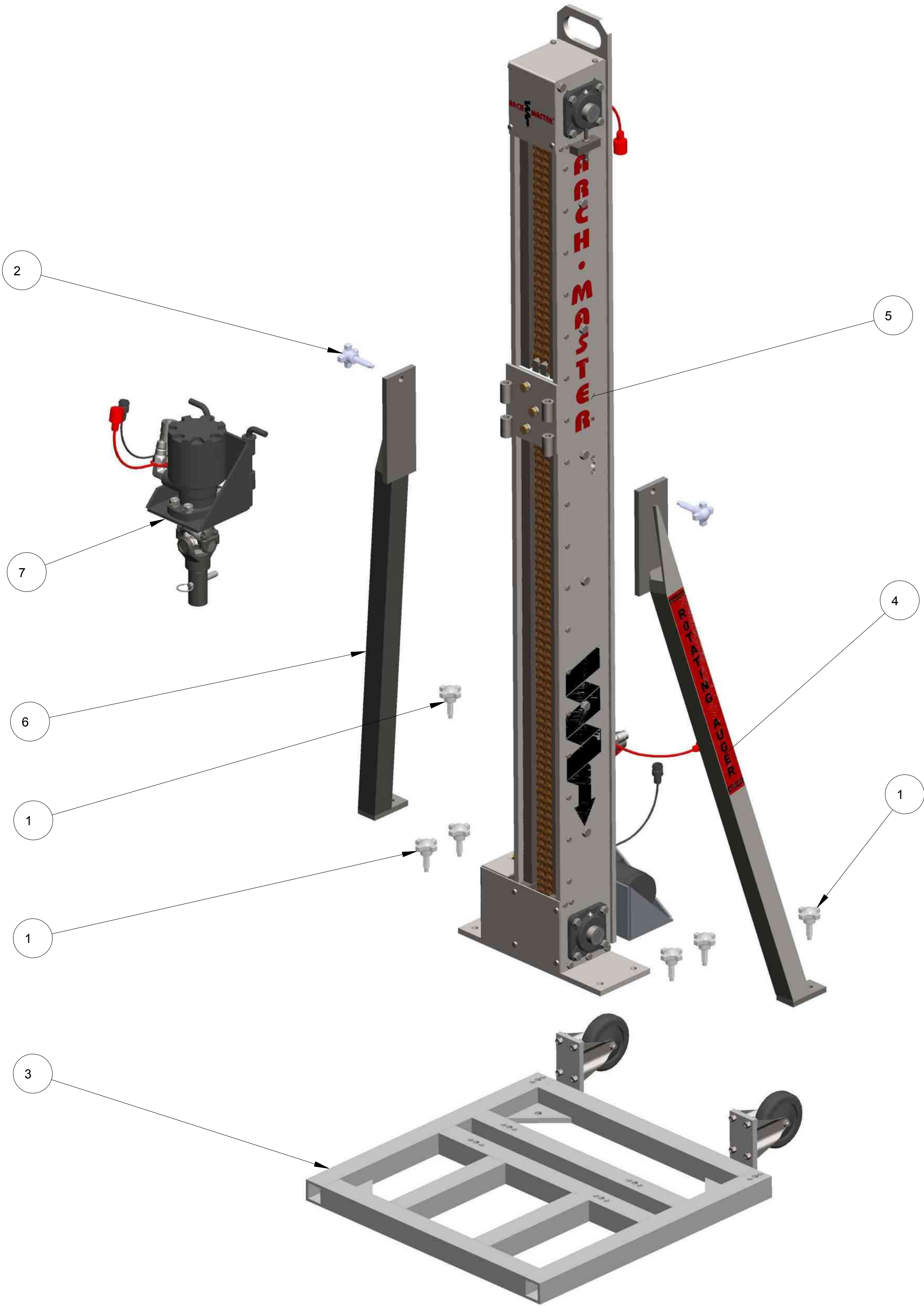
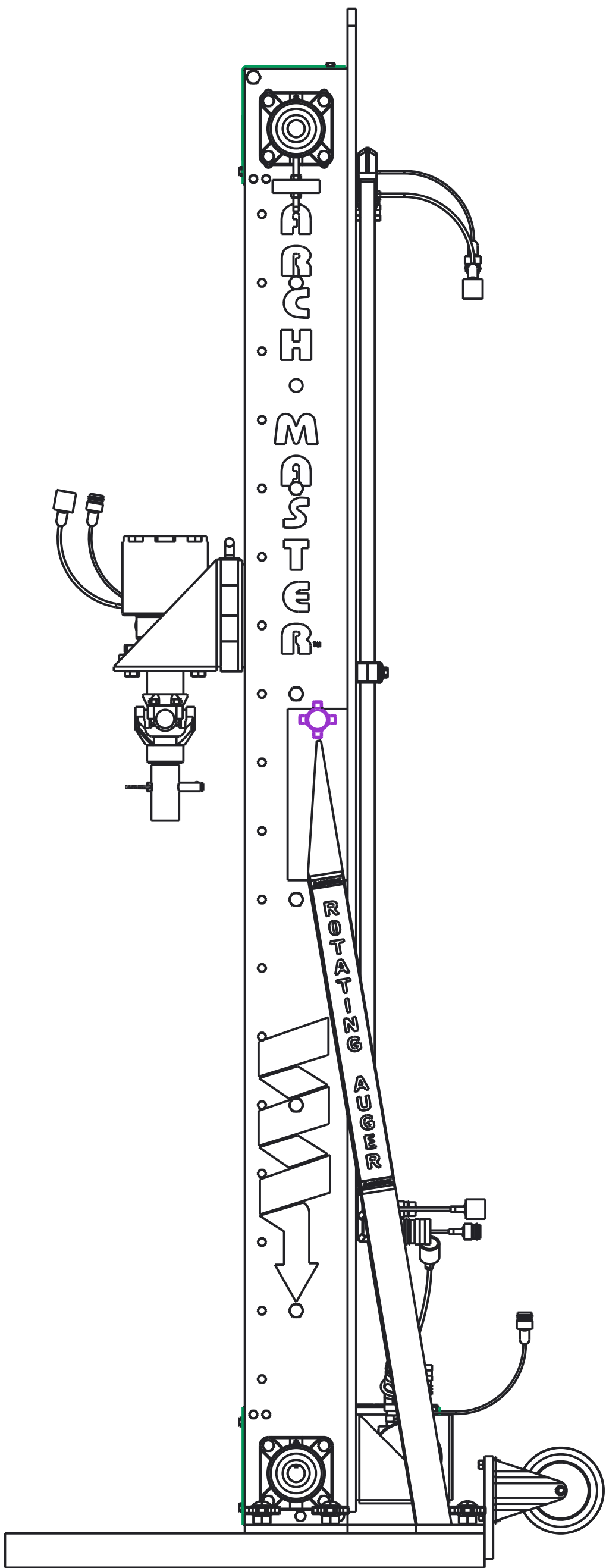
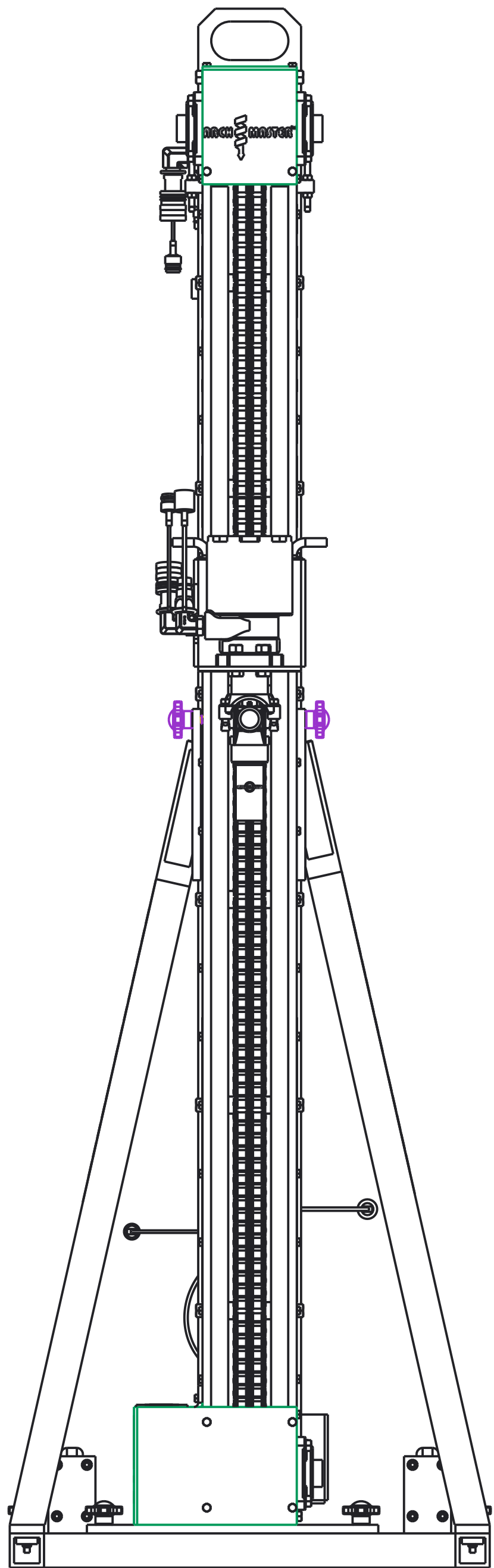


8	1	UR1000-00	UNDER ROOF LOCK BAR ASSEMBLY
7	1	SP2000-00	SLIDE PLATE ASSEMBLY
6	1	PU4000-00	POWER UNIT ASSEMBLY
5	1	AA1001-01	DRIVE PIN U-CLIP, 1-1/8" HEX
4	1	CV4100-00	CONTROL VALVE ASSEMBLY
3	1	AM1001-00	ARCH MASTER SUB-ASSEMBLY
2	1	AA2000-00	ARCH MASTER AUGER
1	1	AA1060-00	6" FISHTAIL BIT ASSEMBLY
ITEM/QTY	PART NO.	DESCRIPTION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX± .01 ±2° .XXX± .005 FRACTIONAL ± 1/16 DO NOT SCALE DRAWING		APPROVALS		DATE	MOLE-MASTER[™] SERVICES CORPORATION TITLE ARCH MASTER ASSEMBLY		27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726	
		DRAWN	EPP	3-18-13				
		CHECKED	-	-				
		ENGR						
TREATMENT	-							
FINISH	-							
MATERIAL	SEE BOM							
		SIZE	D	DWG NO.	PL-AM-1		REV.	B
		SCALE	7/40		CALC. WT	ACT. WT	SHEET	1 OF 1

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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY



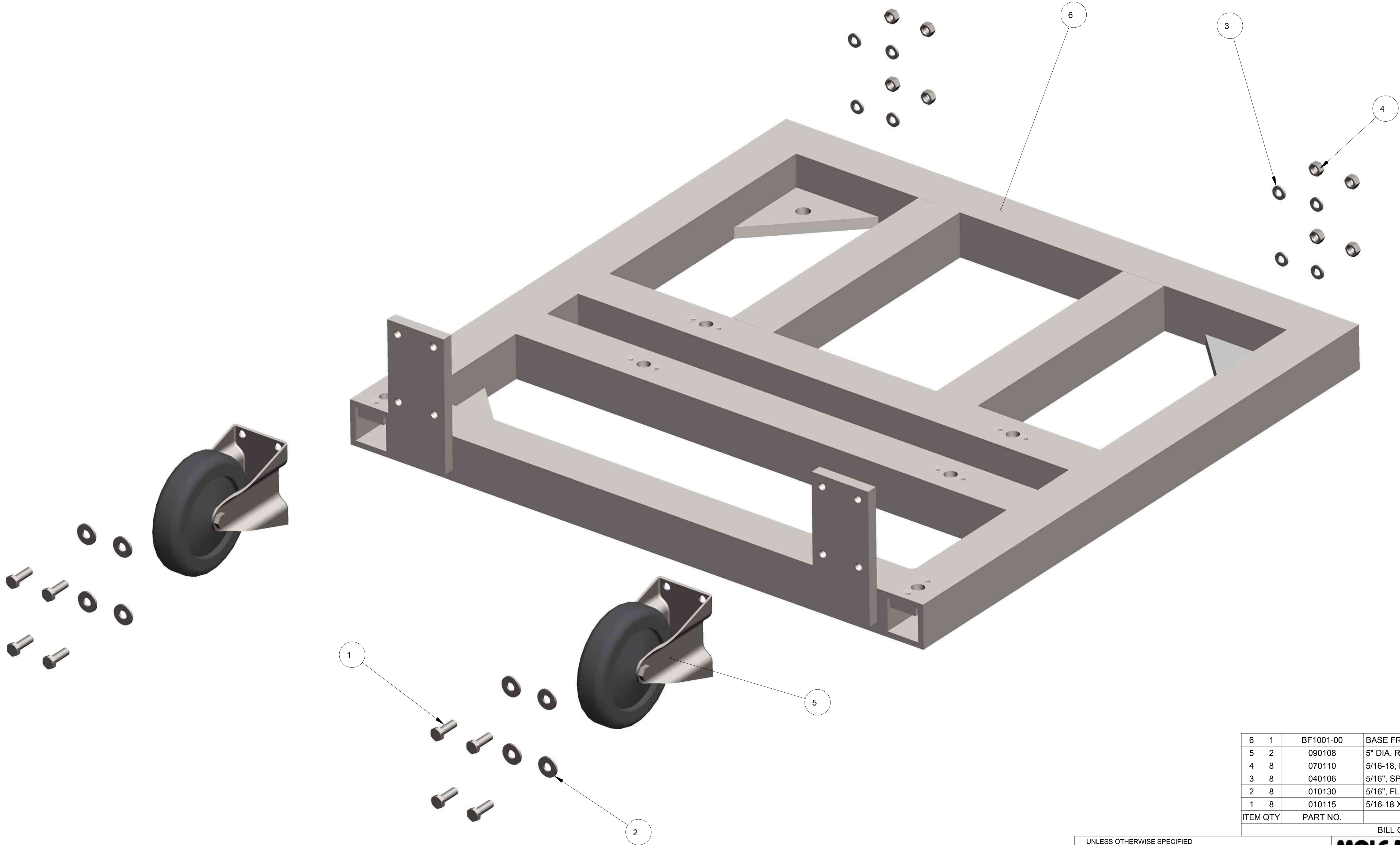
7	1	RM1000-00	ROTATION MOTOR ASSEMBLY
6	1	SA1001-00	RIGHT SIDE BRACE
5	1	MA1000-00	MAST ASSEMBLY
4	1	SA1000-00	LEFT SIDE ARM
3	1	BF1000-00	BASE FRAME ASSEMBLY
2	2	030108	1/2-13 x 2", HAND KNOB
1	6	090107	1/2-13 x 1-1/2", HAND KNOB
ITEM	QTY	PART NO.	DESCRIPTION

BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX± .01 ±2° .XXX± .005 FRACTIONAL ± 1/16 DO NOT SCALE DRAWING		APPROVALS		DATE	MOLE-MASTER SERVICES CORPORATION		27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726	
		DRAWN	EPP	03-18-13				
		CHECKED						
		ENGR	-	-				
TREATMENT					TITLE ARCH MASTER SUB-ASSEMBLY		DWG NO. PL-AM-2	
FINISH	-							
MATERIAL	SEE BOM							
SCALE		3/20			CALC WT	ACT WT	SHEET	1 OF 1

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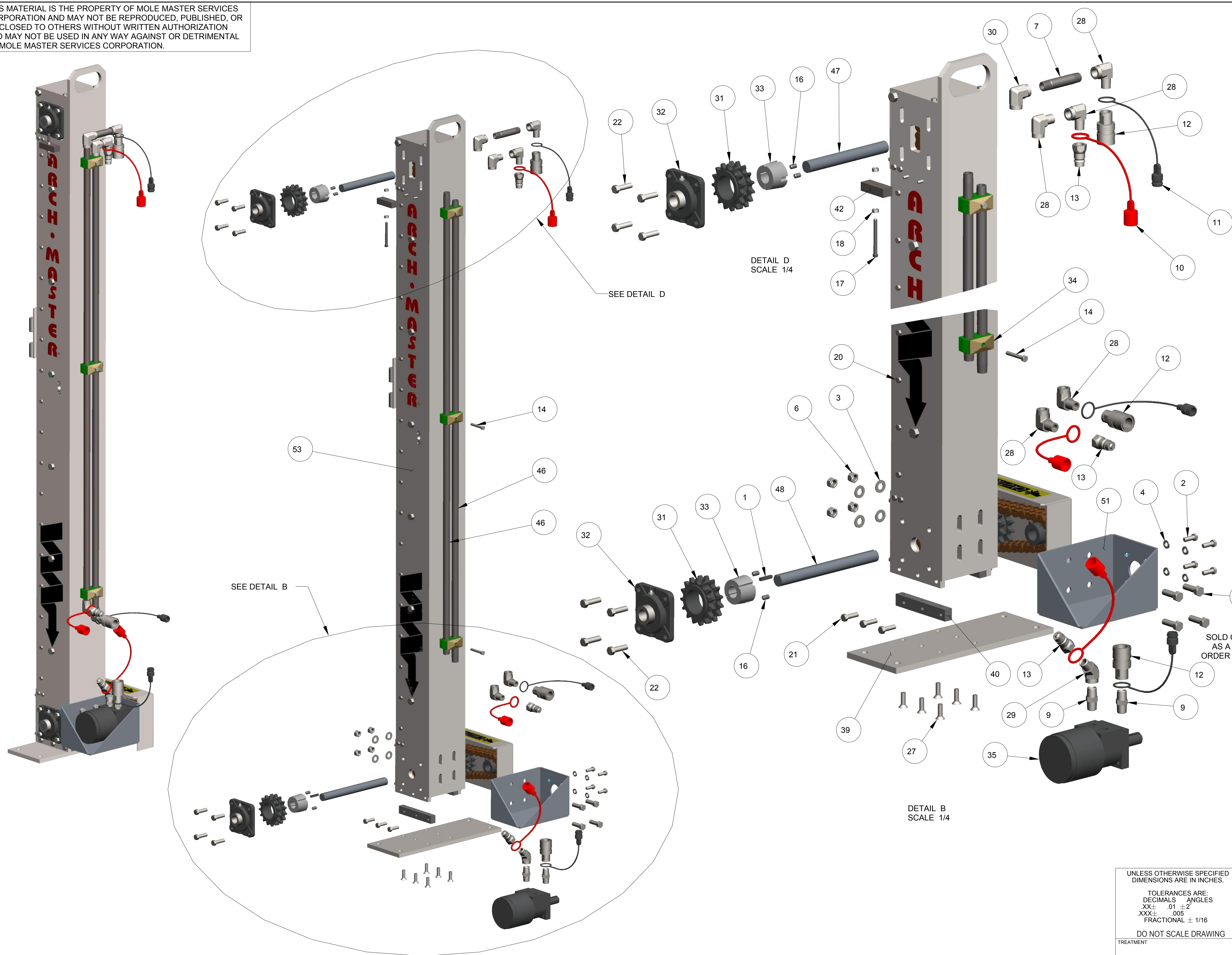
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY



6	1	BF1001-00	BASE FRAME WELDMENT
5	2	090108	5" DIA, RIGID CASTER
4	8	070110	5/16-18, HEX NUT, GR.A, ZP
3	8	040106	5/16", SPLIT LOCK WASHER, ZP
2	8	010130	5/16", FLAT WASHER, SAE, ZP
1	8	010115	5/16-18 X 1", HHCS, GR. 5, ZP
ITEM	QTY	PART NO.	DESCRIPTION

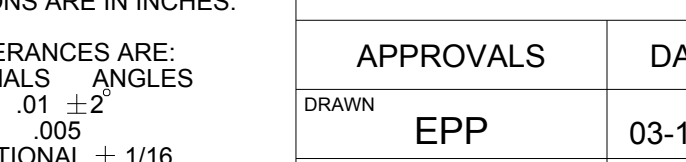
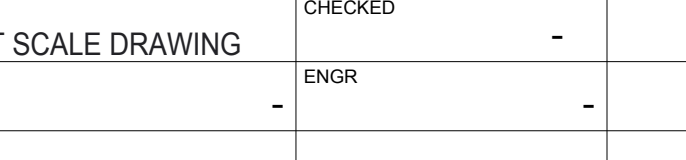
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX ± .01 ± 2° .XXX ± .005 FRACTIONAL ± 1/16 DO NOT SCALE DRAWING		APPROVALS		DATE	MOLE-MASTER SERVICES CORPORATION  27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726	
		DRAWN	EPP	03-18-13		
		CHECKED	-	-		
		ENGR	-	-		
TREATMENT	-				TITLE ARCH MASTER BASE FRAME ASSEMBLY	
FINISH	-					
MATERIAL	SEE BOM				SIZE D	DWG NO. PL-AM-3
		SCALE	1/2		REV. -	

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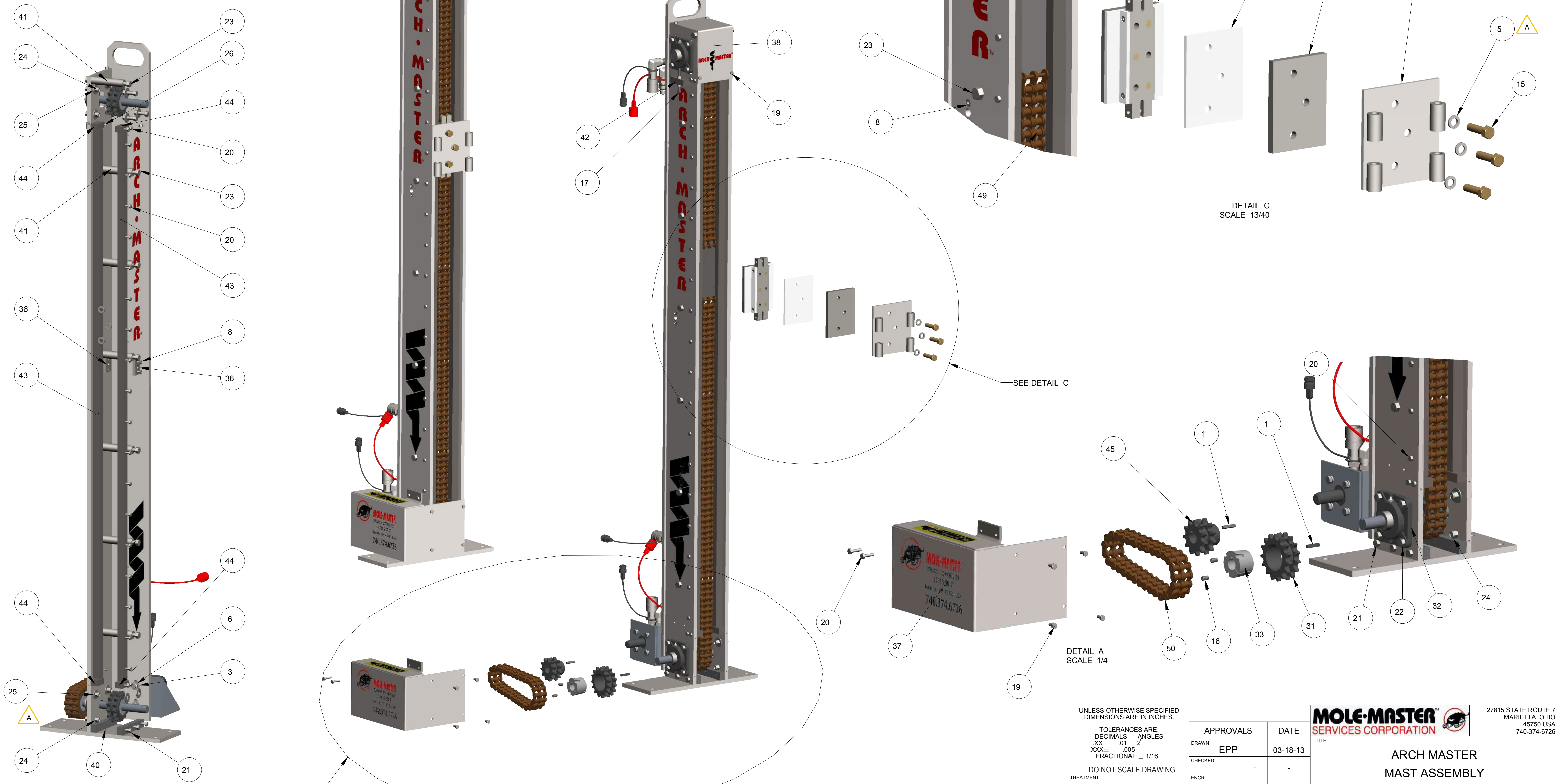
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	ADDED (3) 010138 & (4) 070118	11/30/15	EPP
B	ADDED (3) 050206 & (3) 050207	12/13/17	EPP
C	ADDED (1) 090106 & (1) 070100	06/26/18	EPP

56	1	SB1000-03	WEAR PLATE
55	1	SB1000-02	SLIDE BLOCK SPACER
54	1	SB1000-00	SLIDE BLOCK ASSEMBLY
53	1	MW1000-00	MAST WELDMENT
52	1	MP1000-00	AUGER MOTOR ATTACHMENT PLATE
51	1	MM1000-00	LIFT MOTOR MOUNT
50	1	MA1002-00	DRIVE CHAIN
49	1	MA1001-00	DRILL CHAIN
48	1	MA1000-10	DRIVE SHAFT, 10-1/2" LG
47	1	MA1000-09	IDLE SHAFT, 8-1/2" LG
46	2	MA1000-08	1/2 PIPE, SEAMLESS, SCHD 80, 60" LG, TBE
45	1	MA1000-07	DOUBLE TOOTH SPROCKET
44	4	MA1000-06	STOP BLOCK
43	2	MA1000-05	GUIDE RAIL
42	2	MA1000-04	JACK BLOCK
41	7	MA1000-03	SPACER ROD
40	2	MA1000-02	MAST MOUNTING BLOCK
39	1	MA1000-01	MAST BASE PLATE
38	1	CG1001-01	TOP CHAIN GUARD
37	1	CG1000-00	LOWER CHAIN GUARD WELDMENT
36	2	BF1001-06	THREADED INSERT
35	1	090115	HYDRAULIC LIFT MOTOR
34	3	090106	1/2" TWIN PIPE CLAMP
33	3	090102	TAPER LOCK BUSHING
32	4	090101	FLANGE BEARING
31	3	090100	DOUBLE TOOTH-TAPER BUSHED SPROCKET
30	1	080102	8FP-8F90, FEMALE PIPE-FEMALE PIPE 90° EL
29	1	080101	8MP-8FP45, MALE PIPE -FEMALE PIPE 45° STREET EL
28	5	080100	8MP-8FP90, MALE PIPE-FEMALE PIPE 90° STREET EL
27	6	070122	3/8-16 X 1-1/2", FHSCS, 18-8 SS
26	4	070121	1/4-20 X 1", FHSCS, 18-8 SS
25	12	070118	7/16, FLAT WASHER, SMALL OD, 18-8 SS
24	16	070117	7/16-14, HEX NYLON INSERT LOCKNUT, 18-8 SS
23	18	070116	1/2-13 X 1-1/2", HHCS, 18-8 SS
22	16	070115	7/16-14 X 1-1/2", HHCS, 18-8 SS
21	6	070114	3/8-16 X 1-1/4", HHCS, 18-8 SS
20	46	070113	1/4-20 X 1", HHCS, 18-8 SS
19	8	070112	1/4-20 X 1/2", HHCS, 18-8 SS
18	4	070110	5/16-18, HEX NUT, GR.A, ZP
17	2	070106	5/16-18 X 3", SQ HD SET SCREW, CUP PT, STL
16	6	070105	3/8-16 X 5/8", SCT. SET SCR, CUP PT, BLK. OX
15	3	070104	1/2-13 X 1-3/4", HHCS, GR.8, YZ
14	3	070100	5/16-18 X 2", HHCS, ZP
13	3	060114	QUICK COUPLER, MALE
12	3	060113	QUICK COUPLER, FEMALE
11	3	050207	PLASTIC SOCKET DUST CAP
10	3	050206	PLASTIC PLUG DUST CAP
9	2	050102	8MP-8MP, MALE PIPE-MALE PIPE HEX NIPPLE
8	4	010155	1/4-20 X 3/4", FHSCS, 18-8 SS
7	1	010149	1/2" X 4", SEAMLESS PIPE NIPPLE, SCHD 80, 3000#
6	4	010140	1/2-13, HEX NUT, GR. A, ZP
5	3	010138	1/2", SPLIT LOCK WASHER, ZP
4	4	010137	3/8", SPLIT LOCK WASHER, ZP
3	4	010132	1/2", FLAT WASHER, SAE, ZP
2	4	010117	3/8-16 X 1", HHCS, GR. 5, ZP
1	3	010110	1/4" SQUARE X 1-1/4" L, MACHINE KEY, STL
ITEM	QTY	PART NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.						27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726	
TOLERANCES ARE: DECIMALS .ANGLES .XX± .01 ± 2° .XXX± .005 FRACTIONAL ± 1/16		APPROVALS	DATE				
		DRAWN	03-18-13				
		EPP					
		CHECKED					
DO NOT SCALE DRAWING							
TREATMENT		ENGR					
FINISH							
MATERIAL							
				SIZE	DWG NO.		REV.
				D	PL-AM-4		C
				SCALE	13/80	CALC. BY	ACT. BY
						SHEET	1 OF 2

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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	ADDED (3) 010138 & (4) 070118	11-30-15	EPP
B	ADDED (3) 050206 & (3) 050207	12-13-17	EPP
C	ADDED (1) 090106 & (1) 070100	06/26/18	EPP



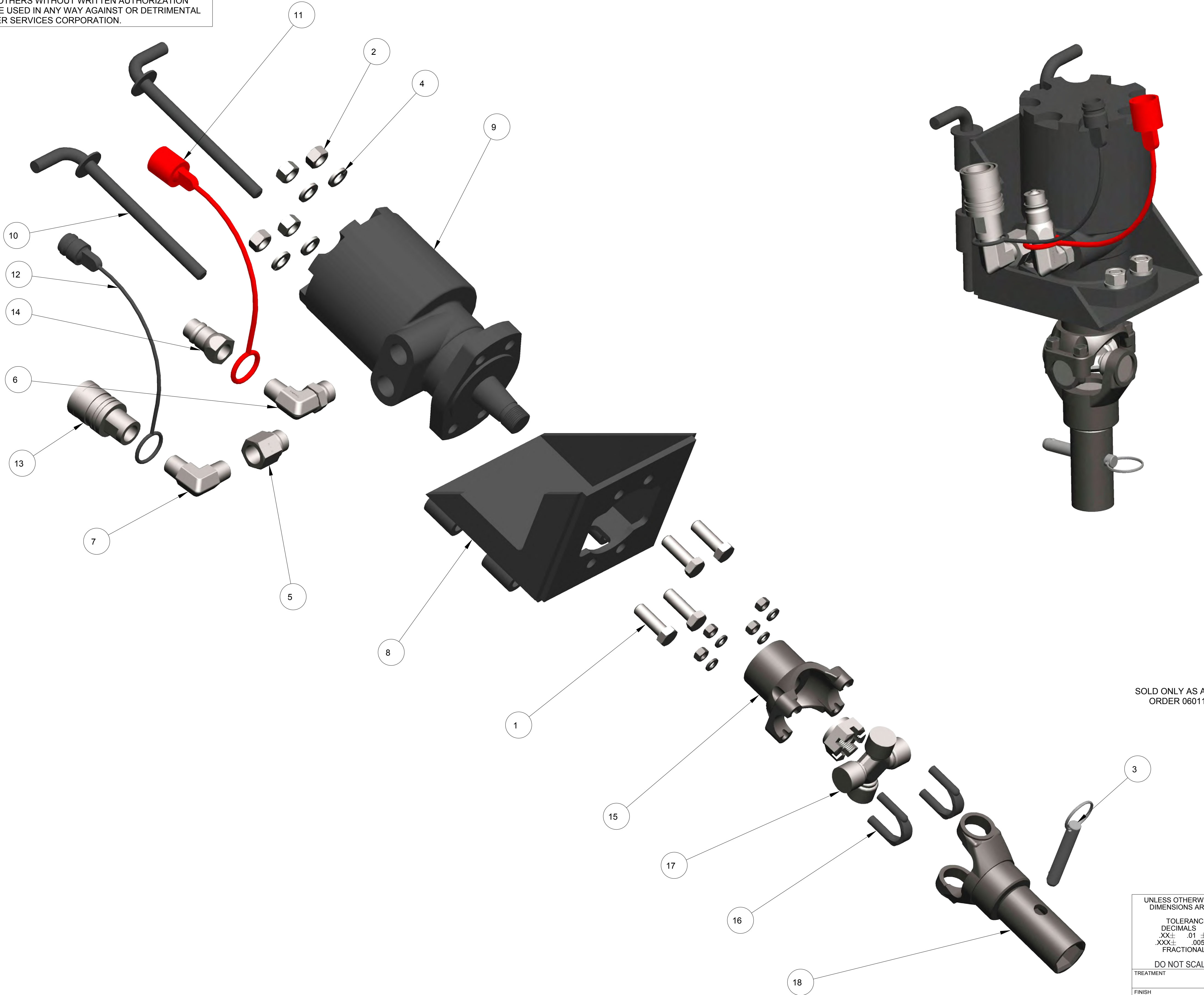
DETAIL C
SCALE 13/40

DETAIL A
SCALE 1/4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.				MOLE-MASTER SERVICES CORPORATION				27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726			
TOLERANCES ARE: DECIMALS ANGLES .XX± .01 ±2° .XXX± .005 FRACTIONAL ± 1/16				APPROVALS				DATE			
DO NOT SCALE DRAWING				DRAWN				EPP			
TREATMENT				CHECKED				-			
FINISH				ENGR				-			
MATERIAL				SCALE				13/80			
				SIZE				D			
				DWG NO.				PL-AM-4			
				REV.				C			
				SHEET				2 OF 2			

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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	050106 WAS 020110	12-19-16	EPP
B	ADDED 050206 & 050207	12/13/17	EPP



SOLD ONLY AS A SET
ORDER 060115

18	1	YW1000-00	YOKE WELDMENT
17	1	090113	U-JOINT
16	1	090110	U-BOLT KIT
15	1	090112	TAPERED BORE END YOKE
14	1	060114	QUICK COUPLER, MALE
13	1	060113	QUICK COUPLER, FEMALE
12	1	050207	PLASTIC SOCKET DUST CAP
11	1	050206	PLASTIC PLUG DUST CAP
10	2	MP1001-00	MOTOR ATTACHMENT PIN
9	1	090116	HYDRAULIC AUGER ROTATION MOTOR
8	1	MM1001-00	AUGER MOTOR MOUNT
7	1	050105	8MP-8MP90, MALE PIPE-MALE PIPE 90 D ELBOW HYD ADAPTER
6	1	050109	10MB-8MP90, MALE O RING BOSS-MALE PIPE 90 D ELBOW HYD ADAPT
5	1	050106	10MB-8FP, MALE O RING BOSS-FEMALE PIPE STRAIGHT HYD ADAPTER
4	4	010138	1/2", SPLIT LOCK WASHER, ZP
3	1	010158	1/2" X 2-1/2", DETENT RING PIN
2	4	010140	1/2-13, HEX NUT, GR. A, ZP
1	4	010120	1/2-13 X 1-1/2", HHCS, GR. 5, ZP
ITEM	QTY	PART NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
DECIMALS ANGLES
.XX± .01 ±2°
.XXX± .005
FRACTIONAL ± 1/16

DO NOT SCALE DRAWING

TREATMENT -

FINISH -

MATERIAL SEE BOM

APPROVALS		DATE
DRAWN	EPP	03-19-13
CHECKED	-	-
ENGR		



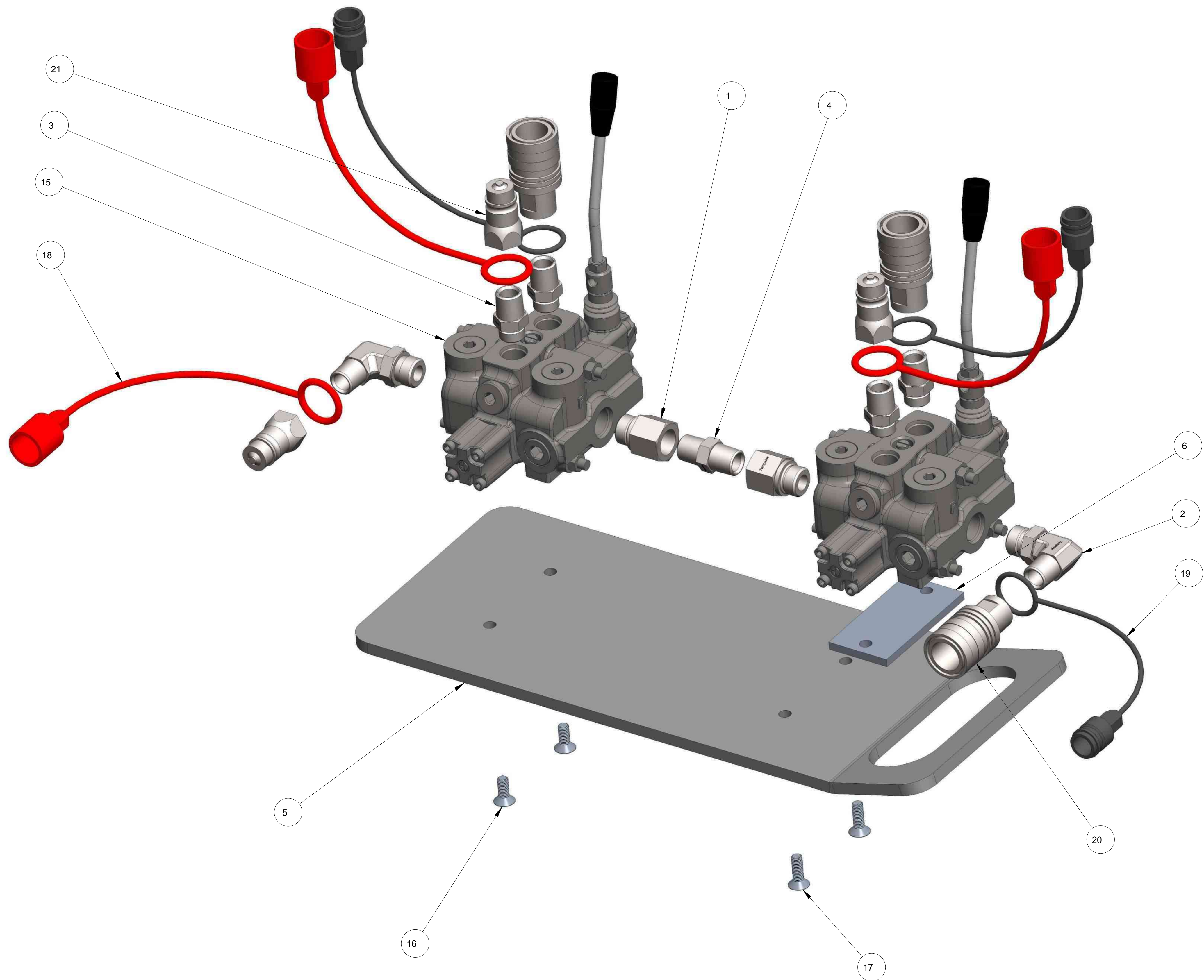
27815 STATE ROUTE 7
MARIETTA, OHIO
45750 USA
740-374-6726

TITLE
**ARCH MASTER
ROTATION MOTOR ASSEMBLY**

SIZE	DWG NO.	REV.
D	PL-AM-5	B
SCALE	1/2	1 OF 1

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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	ADDED (3) 050206 & (3) 050207	12-13-17	EPP
B	RVSD VALVE FROM PARKER TO YOU LI	01-08-20	EPP



NOTE:

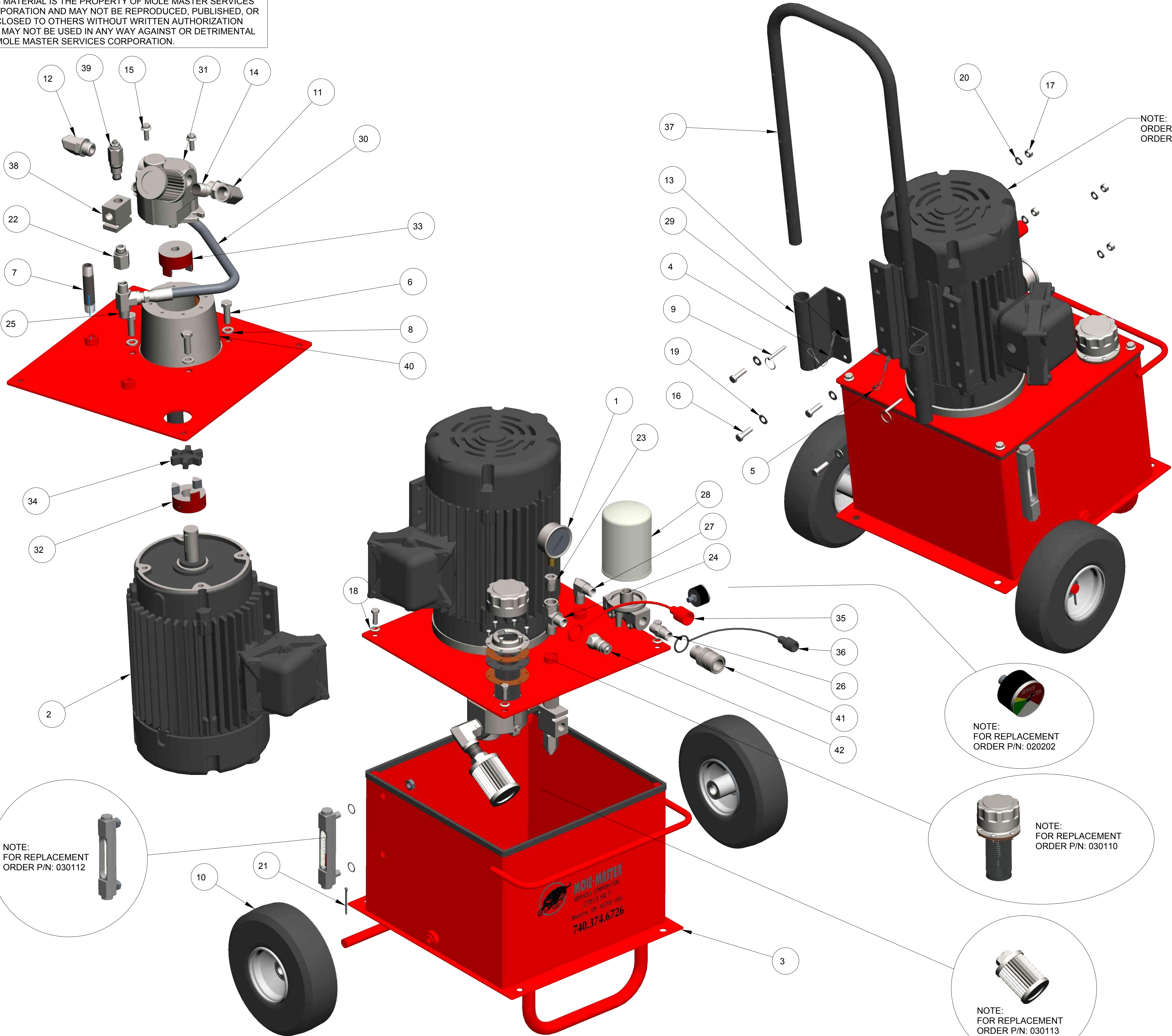
1. APPLY TEFLON TAPE TO ALL PIPE THREAD CONNECTIONS.
2. HYDRAULIC HOSE ASSEMBLIES ARE NOT SHOWN FOR CLARITY.
3. QUICK COUPLINGS THAT CONNECT TO HYDRAULIC HOSES ARE NOT SHOWN FOR CLARITY.

SOLD ONLY AS A SET ORDER 060115	21	11	060114	QUICK COUPLER, MALE
	20	11	060113	QUICK COUPLER, FEMALE
	19	3	050207	PLASTIC SOCKET DUST CAP
	18	3	050206	PLASTIC PLUG DUST CAP
	17	2	040107	M8 X 1.25 X 25mm, FHSCS, ZP
	16	2	010160	M8 X 1.25 X 20mm FHMS, ZP
	15	2	060119	HYD CONTROL VLV, YOULI 1 SPOOL
	14	1	HH0072-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 72" LGTH
	13	1	HH0072-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 72" LGTH
	12	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	11	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	10	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	9	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	8	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	7	1	HH0120-1	HOSE ASSY,#8M3K,(2) 8GE-8MP, 120" LGTH
	6	1	CV3300-02	CONTROL VALVE SPACER PLATE
	5	1	CV4100-01	CONTROL VALVE MOUNTING PLATE
	4	1	050102	8MP-8MP, MALE PIPE-MALE PIPE HEX NIPPLE
	3	4	020109	8MB-8MP, MALE O RING BOSS-MALE PIPE THREAD HYD ADAPTER
	2	2	050109	10MB-8MP90, MALE O RING BOSS-MALE PIPE 90 D ELBOW HYD ADAPT
	1	2	050106	10MB-8FP, MALE O RING BOSS-FEMALE PIPE STRAIGHT HYD ADAPTER
	ITEM/QTY	PART NO.		DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.				MOLE-MASTER[™] SERVICES CORPORATION 		27815 STATE ROUTE 7 MARIETTA, OHIO 45750 USA 740-374-6726	
TOLERANCES ARE: DECIMALS ANGLES .XX± .01 ±2° .XXX± .005 FRACTIONAL ± 1/16		APPROVALS	DATE	ARCH MASTER CONTROL VALVE ASSEMBLY			
		DRAWN EPP	03-18-13				
		CHECKED -	-				
TREATMENT	ENGR						
FINISH	-			SIZE D	DWG NO. PL-AM-6		REV. B
MATERIAL	SEE BOM			SCALE 5/8	CALC. BY ACT. BY		SHEET 1 OF 1

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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	040102 WAS 010117	05-15-14	EPP
B	050102 WAS 020101, 050105 WAS 020103	05-30-14	EPP
C	REPLACED 030103 & 030104 WITH 030148	03-29-17	EPP



SOLD ONLY AS A SET
ORDER 060115

42	1	060114	QUICK COUPLER, MALE
41	1	060113	QUICK COUPLER, FEMALE
40	1	030111	PUMP MOUNT FOR ELECTRIC MOTOR
39	1	030128	PRESSURE RELIEF CARTRIDGE
38	1	030129	PRESSURE RELIEF BODY
37	1	PU3001-01	POWER UNIT HANDLE
36	1	050207	PLASTIC SOCKET DUST CAP, QUICK DISCONNECT COUPLING
35	1	050206	PLASTIC PLUG DUST CAP, QUICK DISCONNECT COUPLING
34	1	030119	LOVEJOY-SPIDER COUPLING-L099/L100SOX
33	1	030120	LOVEJOY COUPLER-L099X5/8HUB3/16
32	1	030121	LOVEJOY COUPLER-L099X1 1/8HUB1/4
31	1	090114	HYDRAULIC GEAR PUMP
30	1	HH3004-00_2	HOSE ASSY.#8M3K,(1)8GE-8MPX,(1)8GE-8MP, 18" LGTH
29	2	PU3002-00	HANDLE MOUNTING BRACKET
28	1	030122	FILTER ASSEMBLY, HYDRAULIC OIL
27	1	050105	8MP-8MP90, MALE PIPE-MALE PIPE 90 D ELBOW HYD ADAPTER
26	1	050102	8MP-8MP, MALE PIPE-MALE PIPE HEX NIPPLE
25	1	020105	8MP-8MP-8FP, MALE PIPE-MALE PIPE-FEMALE PIPE TEE HYD ADAPTER
24	1	020106	8MP-8FP-8MP, MALE PIPE-FEMALE PIPE-MALE PIPE TEE HYD ADAPTER
23	1	020102	8MP-4FP, MALE PIPE-FEMALE PIPE HEX REDUCER BUSHING HYD ADAPTER
22	1	020110	8MB-8FP, MALE O RING BOSS-FEMALE PIPE THREAD STR HYD ADAPT
21	2	010153	5/32" x 2", COTTER PIN, ZP
20	4	010137	3/8", SPLIT LOCK WASHER, ZP
19	4	010131	3/8", FLAT WASHER, SAE, ZP
18	4	010133	3/8", BONDED SEALING WASHER, 18-8 SS
17	4	010139	3/8-16, HEX NUT, GR. A, ZP
16	4	010118	3/8-16 X 1-1/4", HHCS, GR. 5, ZP
15	2	040102	3/8-16 X 1", FLG BOLT, SERRATTED WASHER, GR 8.2, ZP
14	1	010154	3/4" CLOSE PIPE NIPPLE, SCHD 40, STL
13	2	010113	3/16", BLIND POP-RIVET, BUTTON HEAD, ALUM
12	1	050108	12MB-8FP90, MALE O-RING BOSS-FEMALE PIPE 90° ELBOW HYD ADAPTER
11	1	050110	12MB-12FP90, MALE O-RING BOSS-FEMALE PIPE 90° ELBOW HYD ADAPTER
10	2	030148	10" FLAT FREE WHEEL ASSY, 3" OFFSET
9	2	010157	1/4" X 1-1/2", DETENT RING PIN
8	4	010138	1/2", SPLIT LOCK WASHER, ZP
7	1	010149	1/2" X 4", SEAMLESS PIPE NIPPLE, SCHD 80, 3000#
6	4	010120	1/2-13 X 1-1/2", HHCS, GR. 5, ZP
5	1	010111_6	1/16" X 6", BARE CABLE, STEEL LANYARD
4	1	010111_4	1/16" X 6", BARE CABLE, STEEL LANYARD
3	1	090109	10 GALLON HYDRAULIC RESERVOIR
2	1	030138	5 HP,1750 RPM,3PH,TEFC GENERAL PURPOSE ELECTRIC AC MOTOR
1	1	020203	2-1/2"-3000 PSI GLY GAUGE, 1/4" NPT BOTTOM MOUNT
ITEM	QTY	PART NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
DECIMALS ANGLES
.XX± .01 ±2°
.XXX± .005
FRACTIONAL ± 1/16

DO NOT SCALE DRAWING

TREATMENT - ENGR

FINISH -

MATERIAL -

SEE BOM

APPROVALS

DRAWN EPP

CHECKED -

DATE 03-18-13

ENGR

SCALE 1/4"

ACT. WT. -

SHEET 1 OF 1

BILL OF MATERIALS

MOLE-MASTER
SERVICES CORPORATION

27815 STATE ROUTE 7
MARIETTA, OHIO
45750 USA
740-374-6726

TITLE

ARCH MASTER

POWER UNIT ASSEMBLY

DWG NO. PL-AM-7

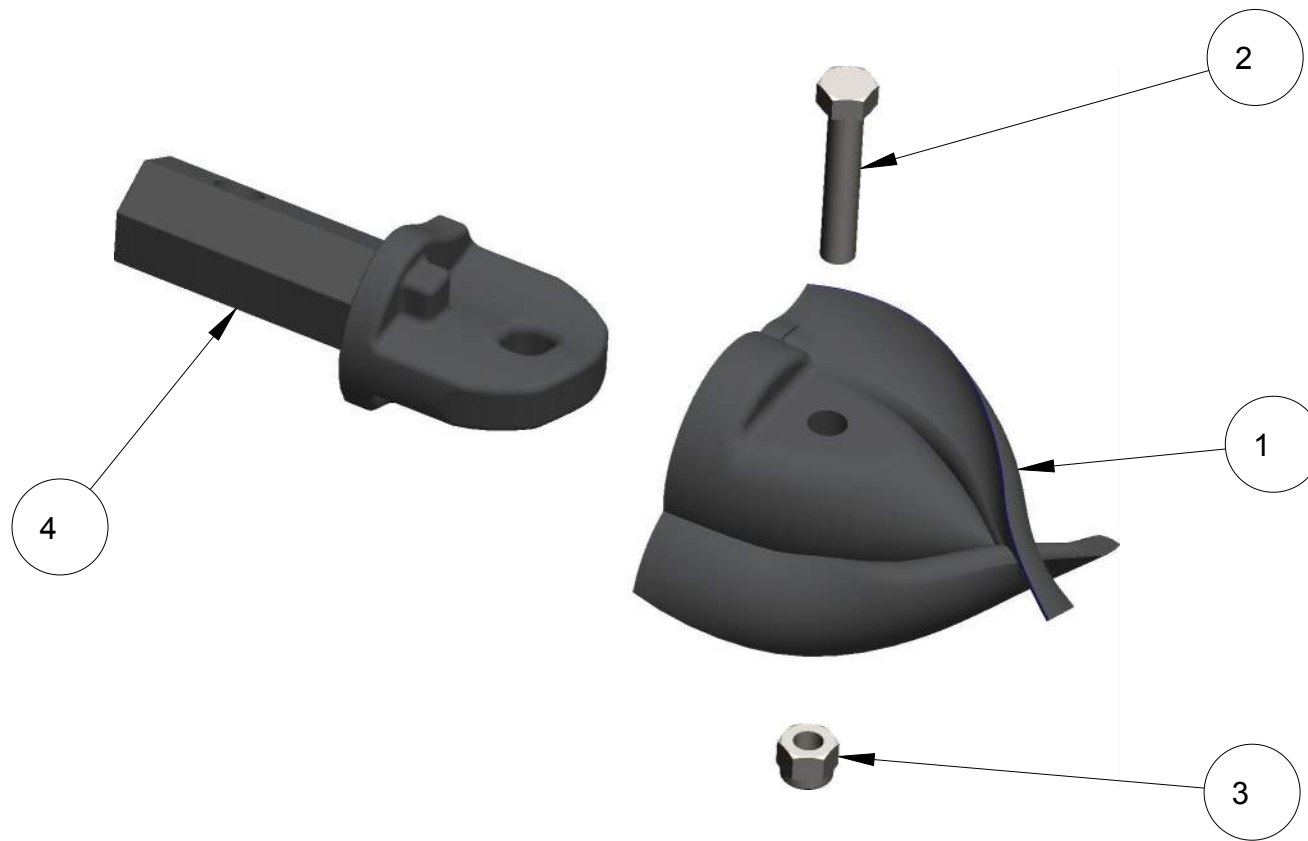
REV. C

SCALE 1/4"

ACT. WT. -

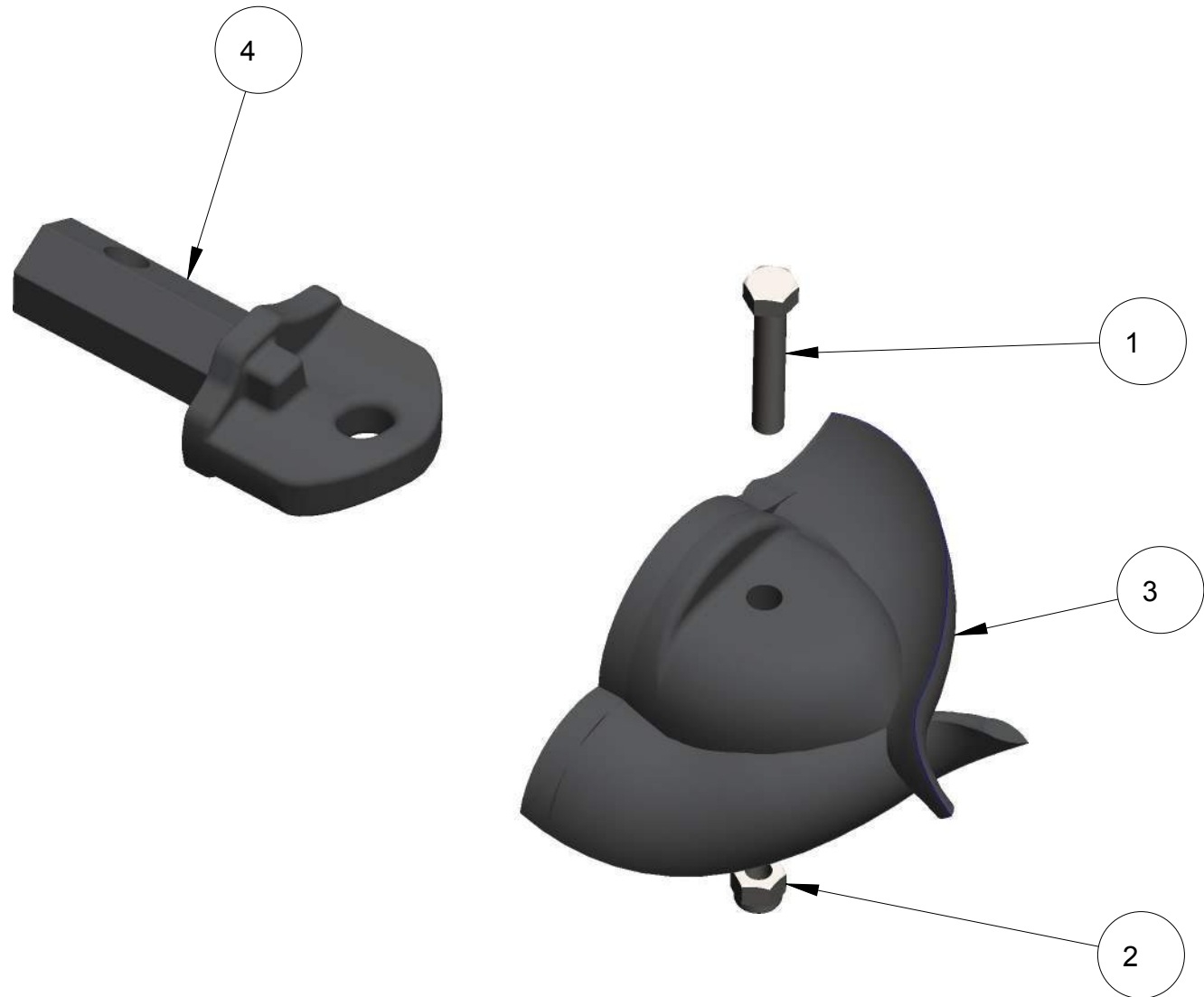
SHEET 1 OF 1

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AA1035-00 (3-1/2" FISHTAIL BIT ASSEMBLY)

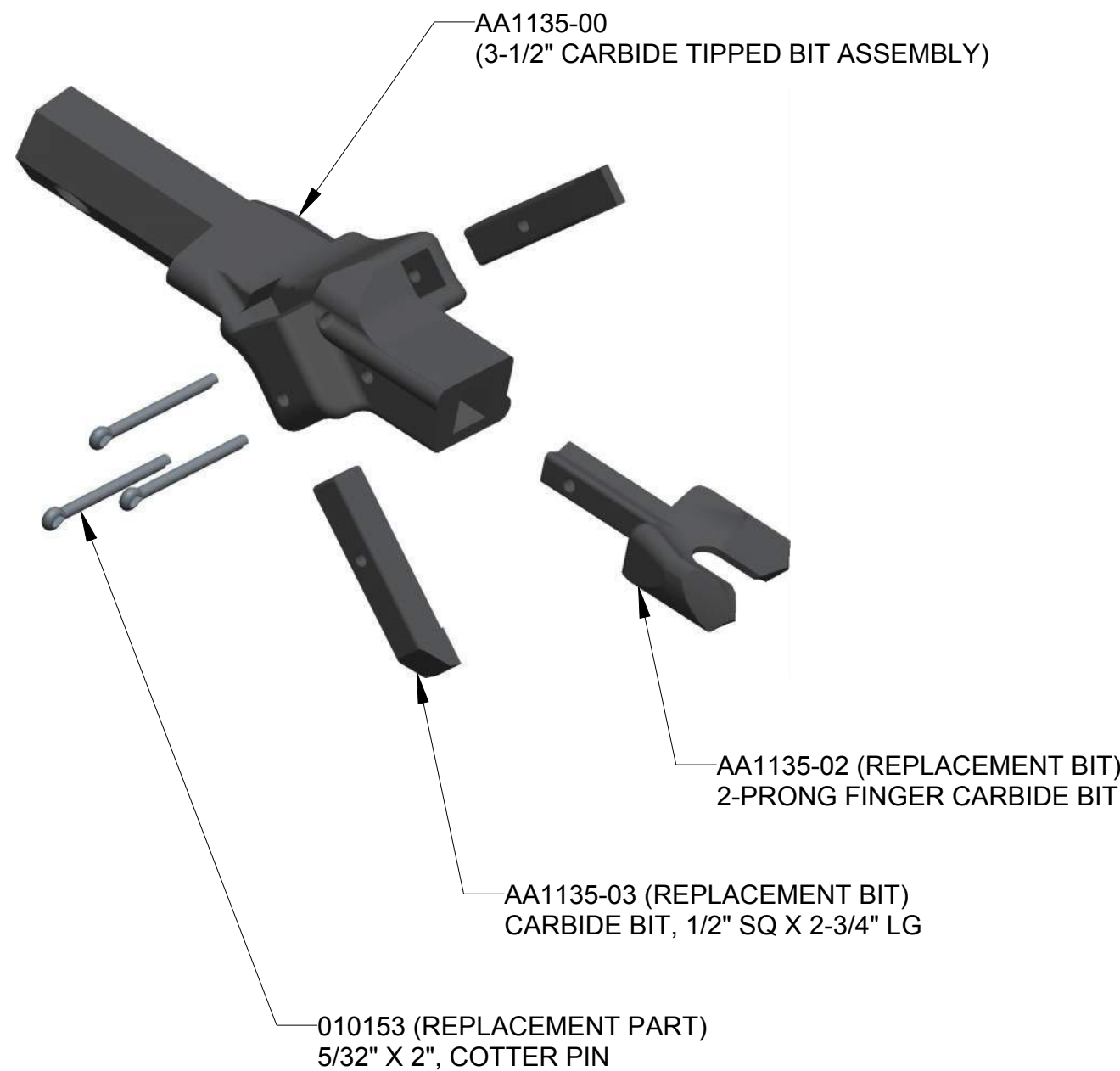
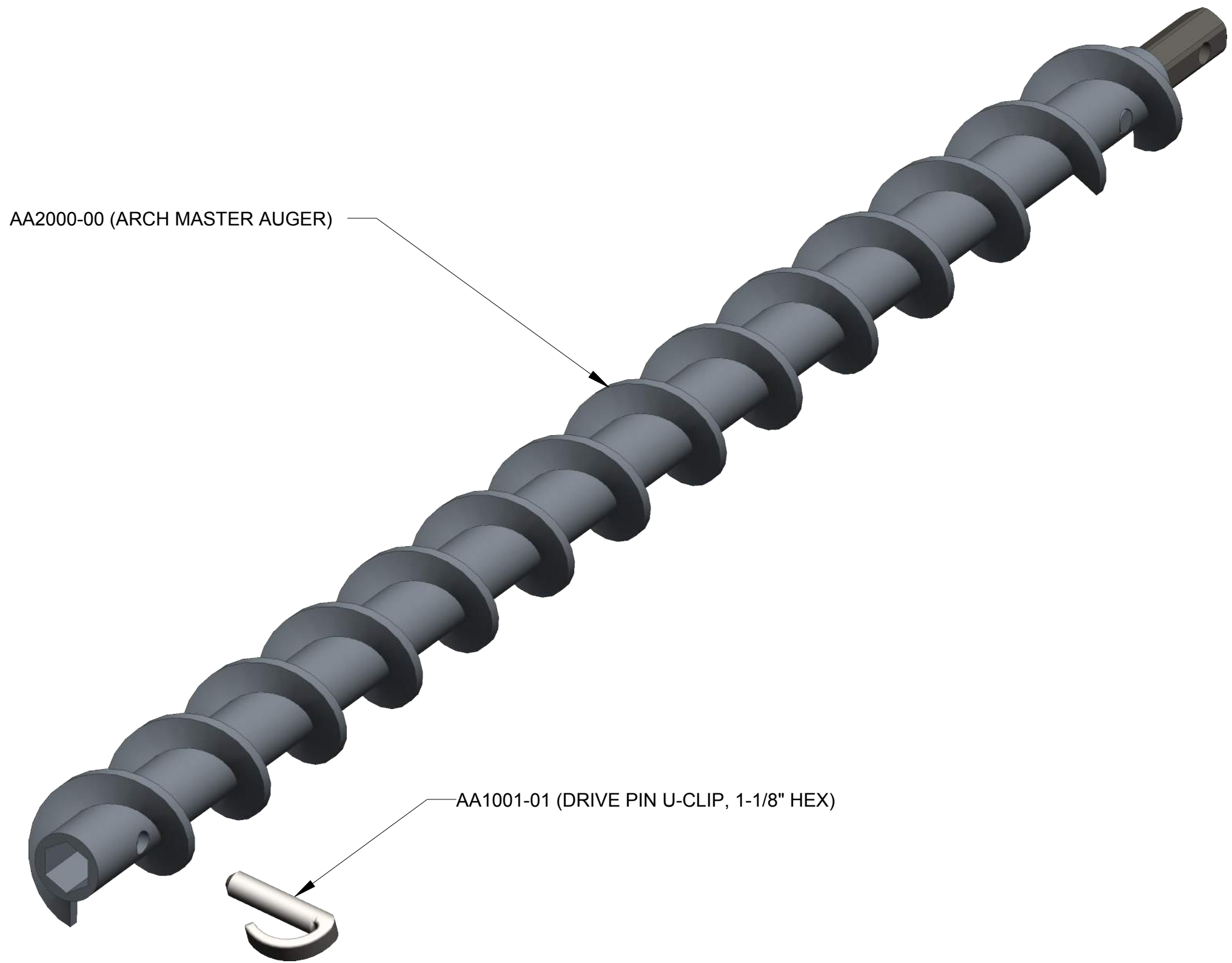
4	1	AA1035-02	MEDIUM DRIVE LUG, 1-1/8" HEX
3	1	070111	3/8-16, HEX NYLON INSERT LOCKNUT, ZP
2	1	070102	3/8-16 X 2", HHCS, GR. 5, ZP
1	1	AA1035-01	3-1/2" FISHTAIL BIT
ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			



AA1060-00 (6" FISHTAIL BIT ASSEMBLY)

4	1	AA1060-02	LARGE DRIVE LUG, 1-1/8" HEX
3	1	AA1060-01	6" FISHTAIL BIT
2	1	070111	3/8-16, HEX NYLON INSERT LOCKNUT, ZP
1	1	070102	3/8-16 X 2", HHCS, GR. 5, ZP
ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	AA2000-00 WAS AA1000-00/SP2000-00 WAS SP1000-00	09-10-18	EPP



AA1100-00 (10" FISHTAIL BIT ASSEMBLY)

4	1	AA1060-02	LARGE DRIVE LUG, 1-1/8" HEX
3	1	070111	3/8-16, HEX NYLON INSERT LOCKNUT, ZP
2	1	070102	3/8-16 X 2", HHCS, GR. 5, ZP
1	1	AA1100-01	10" FISHTAIL BIT
ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			

SP2000-00 (SLIDE PLATE ASSEMBLY)

6	1	SP2001-00	SLIDE PLATE WELDMENT
5	1	SP2002-00	HANDLE WELDMENT
4	1	SP1000-01	COMPRESSION SPRING, 1-1/2" LG
3	1	010131	3/8", FLAT WASHER, SAE, ZP
2	1	070111	3/8-16, HEX NYLON INSERT LOCKNUT, ZP
1	1	070102	3/8-16 X 2", HHCS, GR. 5, ZP
ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.				<	
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