INSTRUCTION MANUAL KM10







PH: (269) 382-2050

www.kalamazooind.com

MADE IN USA

WARNING!

TO REDUCE THE RICK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, ANY LIQUID OR MOISTURE.

INSPECTION

If these goods are damaged in transit, the **DELIVERING TRANSPORTATION COMPANY** is required by law to make notation of damages on the freight bill. If in your opinion, there may be concealed damage, they are required to make an inspection after goods are unpacked. Transportation rates are made in proportion to damage. Therefore, the carrier and **NOT** the shipper should be charged with any loss or damage. Any claim should be filed with the delivering Transportation Company. **PLEASE DO NOT RETURN GOODS TO US WITHOUT OUR RGA NUMBER AND SHIPPING INSTRUCTIONS.**

<u>Electrical</u>: CAUTION: Voltage changes require wiring changes at drive motor. WARRANTY DOES NOT COVER unauthorized wiring changes/failures. <u>Consult an electrician an electrician if your not familiar with electrics</u>.

KM10 SETUP

- BEFORE STARTING OR CONNECTING ELECTRICAL VERIFY THE PHASE AND VOLTAGE OF THE UNIT.
- BE SURE MACHINE IS BALANCED CORRECTLY SO IT WILL TIP OVER.
- TO GUARD AGAINST CONCEALED DAMAGE, STAND CLEAR AND OBSERVE UNIT FOR THE FIRST FEW MINUTES OF OPERATION. GUARDS MUST NEVER BE REMOVED.
- BEFORE INSTALLING THE ABRASIVE WHEEL CONFIRM THAT THE CUTOFF WHEEL IS DESIGNED TO RUN AT 4800 SFPM (MOS). YOU CAN FIND THIS INFORMATION DIRECTLY ON THE THE SIDE OF YOUR CUTOFF WHEEL. IT

ABRASIVE SAW SAFETY

- NEVER REMOVE SAFETY GUARDS FROM MACHINE. DISCONNECT MACHINE FROM POWER SOURCE BEFORE MAKING ANY MACHINE ADJUSTMENTS.
- DO NOT USE AROUND FLAMMABLE MATERIALS OR LIQUIDS.
- MACHINES SHOULD BE OPERATED IN VENTILATED AREAS.
- ALWAYS WEAR SAFETY GLASSES OR A FULL FACE SHIELD FOR PROTECTION.
- DO NOT USE TOOTHED BLADE WITH THIS SAW AND DO NOT ATTEMPT TO USE STEEL BLADES ON THIS SAW.
- KEEP HANDS CLEAR OF THE CUTTING AREA.
- DO NOT WEAR GLOVES OR LOOSE FITTING CLOTHES WHEN OPERATING THIS MACHINE.
- ALWAYS KEEP HAIR TIED BACK OR COVERED.
- ALWAYS KEEP FLANGES CLEAN AND TIGHT AGAINST CUTTING WHEEL.
- MANUALLY TIGHTEN AND LOOSE SPINDLE NUT.
- DO NOT USE IMPACTED GUN TO LOOSEN OR TIGHTEN SPINDLE NUT.
- ALWAYS KEEP WHEEL GUARD IN THE DOWN POSITION.
- BE SURE WORK PIECE IS CLAMPED SECURELY IN VISE BEFORE CUTTING.

WARNING!!!!

IMPROPER USE MAY CAUSE BREAKAGE AND SERIOUS INJURY.

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DO

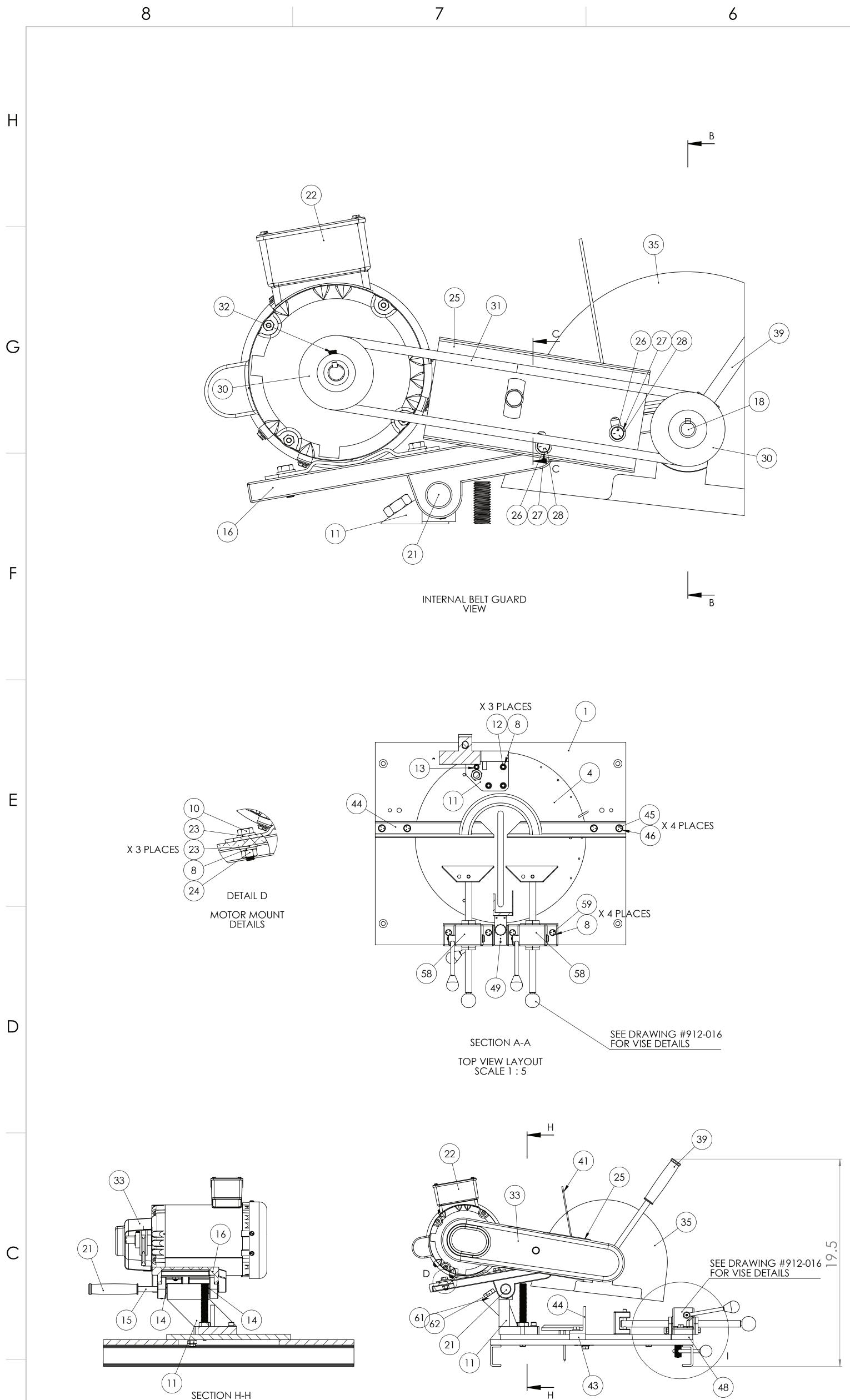
- 1. DO always handle and store wheels in the vertical position.
- 2. DO visually inspect all wheels before mounting for possible damage.
- 3. DO check machine speed against the established maximum safe operating speed marked on the wheel.
- 4. DO check mounting flanges for equal and correct diameter.
- 5. DO use mounting blotters when supplied with wheel.s
- 6. DO always use a safety guard covering a least one-half of the abrasive wheel.
- 7. DO allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before cutting.
- 8. DO always wear safety glasses or some type of eye protection when cutting.
- 9. DO tie back hair.

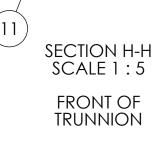
- 1. DON'T use a cracked wheel or one that has been dropped or has become damaged.
- 2. DON'T force a wheel onto the machine or alter the size of the mounting hole if wheel won't fir the machine.
- 3. DON'T ever exceed maximum operating speed established for the wheel.
- 4. DON'T use mounting flanges on which the bearing surfaces are not clean, flat and free of burrs.
- 5. DON'T tighten the spindle nut excessively.
- 6. DON'T start the machine until the wheel guard is in place.
- 7. DON'T jam work into wheel.
- 8. DON'T force cutting so that motor slows noticeable or work gets hot.
- 9. DON'T wear gloves and or have loose clothing when operating machine.
- 10. DON'T use tooth blade on saw.

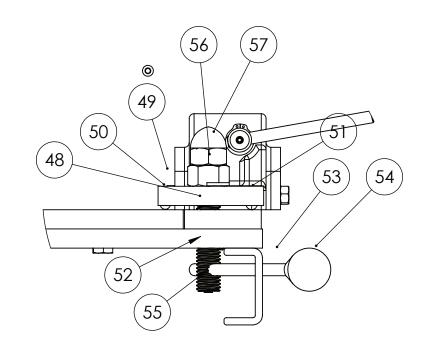
DON'T

BASIC OPERATION

- 1. Be certain correct wiring is matched to motor.
- 2. Always keep flanges clean and tight against the abrasive wheel.
- 3. Be certain work piece is securely clamped in the vise. Any movement in the work piece during cutting will result in broken abrasive cutoff blades.
- 4. Down stop screw located on saw base (#60) under the saw arm (#16) must be adjusted so the abrasive wheel does not cut into the saw base. Adjust the screw up when installing a new wheel so as not to allow the wheel to cut into the saw base. Keep adjusting the screw down as the wheel ears so you can cut thru the work piece.
- 5. Keep the blade guard in the down position at all times. Guarding is designed for abrasive blades only. **DO NOT USE STEEL TOOTHED BLADES!!! GUARDING IS NOT DESIGNED FOR STEEL TOOTHED BLADES PER OSHA AND ANSI STANDARDS.**
- 6. Select the correct abrasive wheel for the material. Every abrasive wheel performs differently. With low HP motors a free cutting wheel like the Kalamazoo Industries #KAB10N non-reinforce wheels give free cutting on most materials. Good cuts are bright like the material and not burned or discolored. If burning occurs then select another grade of abrasive wheel. Consult your dealer or wheel manufacturer for wheel grade selection. It may take many test cuts on different wheels to obtain the wheel that works the best for your material. Use enough cutting force to make the wheel wear or "break down".
- 7. Saw spindle speed is set at 3,450 SPFM select cutoff wheel that's designed to run at 3,450 SPFM or greater. Using cutoff wheel's designed to run under 3,450 SPM could cause wheel failure and could cause serious injury to operator. Contact the wheel manufacturer or dealer for the correct wheel.
- 8. Always follow safety procedures. Wear safety glasses, never wear gloves or loose fitting clothing that can get caught in the moving parts and tie back loose hair. Always keep hands out of sawing area when cutting. See attached safety sheet.
- 9. V-belts will stretch with use over time. Keep v-belts tight with 1/2" of "squeeze". Use a v-belt tensioner to tighten v-belt belt. Keep both faces of spindle and motor pulley aligned in the same plan with a straight edge. Check motor and spindle pulleys set set prior to operating the machine.







DETAIL I SCALE 2 : 5 TABLE LOCK DETAILS REFER TO DRAWING 912-016 FOR COMPLETE VISE DETAILS

SECTION G-G SCALE 1 : 5 CONCENTRIC BUSHING DETAILS

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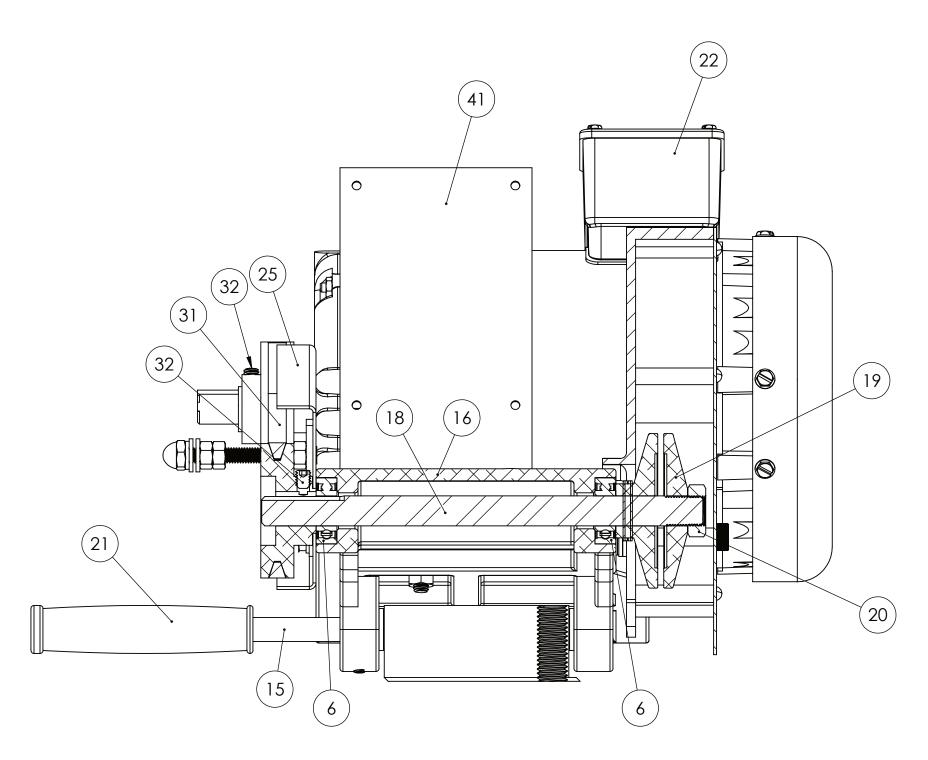
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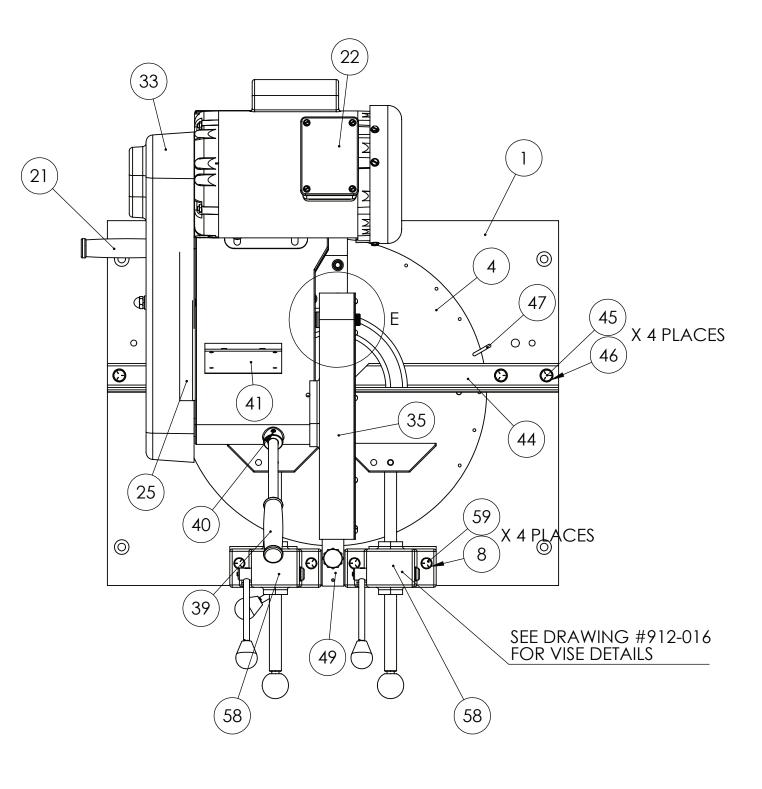
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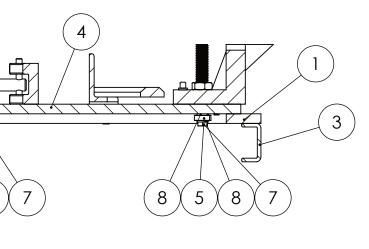






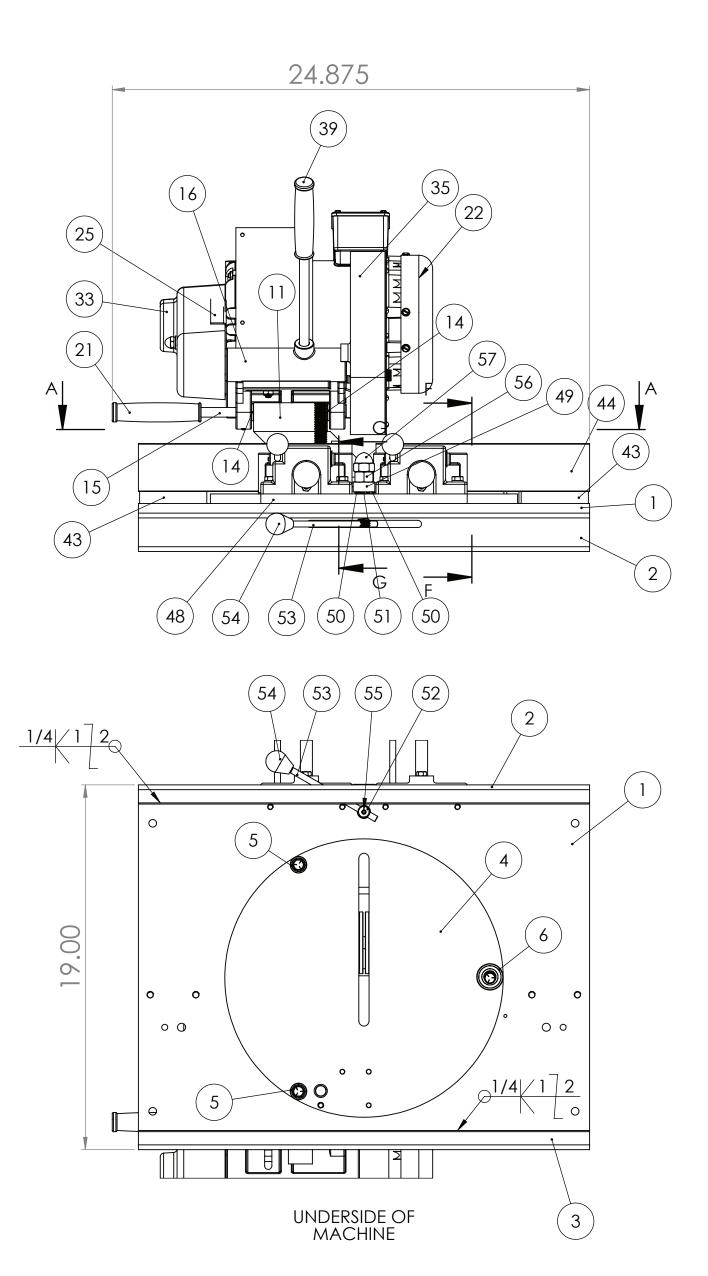






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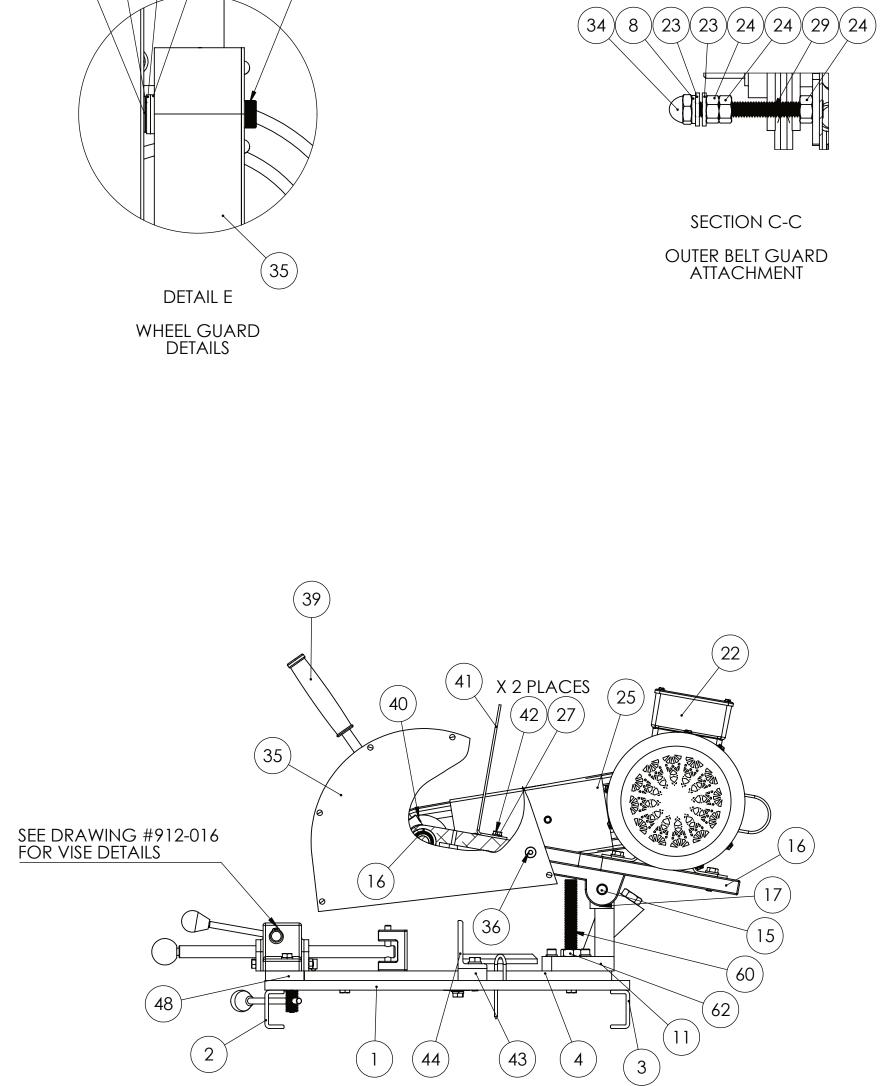


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SECTION B-B SPINDLE CROSS-SECTION

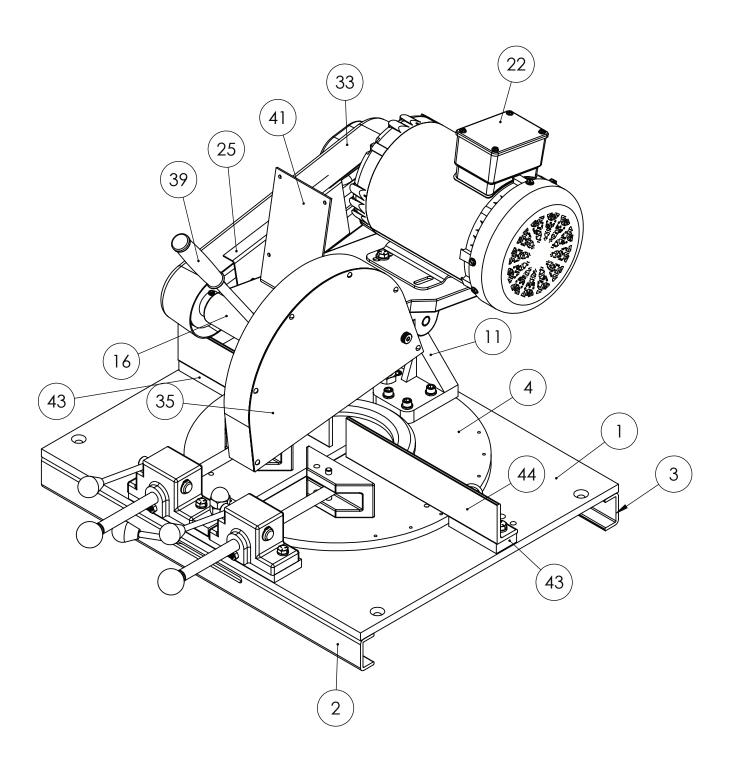
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(3)SECTION F-F SCALE 1 : 5 ECCENTRIC BUSHING DETAILS





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NEXT ASSY

USED ON

APPLICATION

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	
1	556-008	PLATE, SQUARE FOR KM10-14	1	
2	711-002FRONT	SUPPORT PLATE CHANNEL (WITH SLOT) FOR KM10	1	
3	711-002BACK	SUPPORT PLATE CHANNEL (NO SLOT) FOR KM10	1	
4	050-013	BASE (ROUND) TOP FOR KM10	1	
5	044-006	TABLE BEARING (38KDT) FOR KM10, KM14 MITRE SAWS	2	H
6	044-007	K10 BEARING	3	
7	HHC5031012	5/16-18 X 3/4 HHCS GR5 Z	2	
8	SLWZ031	5/16 SPLIT L/W Z ECCENTRIC BUSHING FOR KM10	17	
9	049-001	AND KM14 MITRE TOP	1	
10	HHC5031016	5/16-18 X 1 HHCS GR5 Z TRUNNION CASTING FOR KM10	4	
11	831-013	MITRE SAW	1	
12	SHCA031020	5/16-18 X 1-1/4 SHCS	3	
13	SHCA031016 RLB FB-810-	5/16-18 X 1 SHCS	1	
14	6MODIFIED	MODIFIED FLANGE BUSHING	2	
15	562-008	TRUNNION PIN FOR KM10 ALUMINUM SAW ARM FOR K7B,	1	
16	002-001	K8B, K10B (TAKES NEW 6202-2RS- 1/2 BEARINGS	1	
17	SSKA025006	1/4-20 X 3/8 SOC SET KNURL PT.	1	G
18	701-003	K10 SPINDLE W TIGHT FLANGE	1	
19	292-008	LOOSE FLANGE FOR K10B AND 2SK7	1	
20	FJNZ063	5/8-18 F H JAM NUT Z	1	
21	347-001	HANDLE, GRIP FOR K7B, K8B,	1	
		K10B SAWS 3 HP MOTOR FOR FOR K8B, K10B,		
22	486-006	KM10, BG260H AND \$460W	1	
23	UFWZ031 FHN5031	5/16 USS F/W Z 5/16-18 FHN GR5 ZINC	<u> </u>	
24	342-027	K10B INNER GUARD BELT	1	
25	HHC5025012	BRACKET 1/4-20 X 3/4 HHCS GR5 Z	2	
20	SLWZ025	1/4 SPLIT L/W Z	4	
28	UFWZ025	1/4 USS F/W Z	2	
29	RND-0.31-18 THRD RODX	3 INCHES OF 5/16-18 THREADED ROD	1	
30	560-045	K10B, K10SW, KM10 PULLEY	2	F
31	051-003	V-BELT FOR K10, KM10, S6MW, S460W	1	
32	SSKA031006	5/16-18 X 3/8 SOC SET KNURL PT.	2	
33	342-043	K10B, KM10 PLASTIC OUTER BELT GUARD	1	
34	CPNZ031	5/16-18 CAP NUT NICKEL	1	
35	342-006	WHEEL GUARD FOR K10B SAWS	1	
36	SSBA031006	5/16 X 3/8 SOC SHOULDER BOLT	1	
37	UFWZ037	3/8 USS F/W Z 5/16 BOWED SPRING WASHER	2	
38	BWWA031	21/64	2	
39	381-003	HANDLE W GRIP FOR K7B, K8B, K10B SAWS	1	
40	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	1	
41	041-050	SWITCH BRACKET FOR K8B AND K10B	1	
42	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	2	E
43	699-004	SPACER, FENCE FOR KM10 AND KM14 SAWS	2	
44	293-001	MITRE FENCE FOR KM10 AND KM10HS	1	
45	HHC5037024	3/8-16 X 1-1/2 HHCS GR5 Z	4	
46	SLWZ037	3/8 SPLIT L/W Z	4	
47	562-020	TABLE INDEX PIN FOR KM14SPACER, VISE FOR KM10 AND	1	
48	699-005	KM14 SAWS	1	
49	454-004	LOCK, TABLE MITRE FOR KM10, KM14	1	
50	RHRA012008	1/8 ROUND HEAD RIVET	2	
51	RUDZ007008	#7 X 1/2 RD U-DRIVE SCREW Z SCREW, TABLE LOCK FOR KM10	1	
52	696-013A	MITRE SAW (4-1/2 LONG)		
53 54	381-012 441-002	HANDLE, TABLE LOCK FOR KM14 K10-16 VISE LOCK HANDLE KNOB	1	
55	SSSA025006	1/4-20 X 3/8 SOC SET CUP PT	1	D
56	FHN5062	5/8-11 FHN GR5 Z	1	
57	CPNZ062	5/8-11 CAP NUT Z	1	
58	912-016	VISE ASSY K12-14W, KM10, KM14 LESS JAW AND PIN	2	
59	HHC5031028	5/16-18 X 1-3/4 HHCS GR5 Z	4	
60	709-007	FRONT STOP FOR KM10 SAW	1	
61	709-008 E INIZO42	BACK STOP FOR KM10 SAW	1 2	
62	FJNZ062	5/8-11 F H JAM NUT Z	۷	

	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	KALAMAZOO
DIM	MENSIONS ARE IN INCHES	DRAWN			INDUSTRIES, INC.
_	TOLERANCES: FRACTIONAL ±	CHECKED			TITLE:
ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		ENG APPR.			MODEL KM10 10"
		MFG APPR.			
INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Q.A. COMMENTS:		Q.A.			MITRE SAW
		COMMENTS:			
				SIZE DWG. NO. REV	
	FINISH				E KM10
	DO NOT SCALE DRAWING				SCALE: 1:2 WEIGHT: SHEET 1 OF 1