

INSTRUCTION MANUAL KM14 14" MITRE SAW



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MADE IN USA

WARNING!

TO REDUCE THE RISK 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.**

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

KM14 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.

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 wheels.
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.

DON'T

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 fit 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.

BASIC SAW OPERATION

The KM14 14" abrasive mitre saw mitres 45 degrees left or right and any angle in between. Pre-set holes have been drilled and pinned at 90 degrees, 30 degrees and at 45 degrees left and right. To swivel the saw head pull the index pin (**#70**) on mitre base plate (**#7**), loosen the table lock handle (**#17**), rotate saw head with trunnion pin (**#66**). When desired angle is reached (45 degrees, 30 degrees and or 90 degrees) replace index pin (**#70**). With other angles there is no index pin hole. Use the table lock handle to lock the saw head.

Two vises are provided for either left or right cuts. Typically only one vise is used depending on which way the saw head is mitred. **Note: dual vising can only be used in the 90 degree position.** Vise jaws swivel to mitre cut. If the work piece is not as wide as the vise jaw use a shim on the other of the jaw the same diameter/size as the work piece to keep the jaw from swiveling. **Note: shimming material when necessary will give you more even clamping. BE SURE MATERIAL IS SECURELY CLAMPED. ANY MOVEMENT DURING CUTTING WILL RESULT IN BLADE BREAKAGE.**

IMPORTANT

ONLY USE REINFORCED CUTOFF ABRASIVE WHEELS THAT HAVE 1" ARBOR AND DESIGNED TO HAVE AT LEAST A MOS OF 4400 RPM.

SPINDLE SPEED: 4400 RPM

ARBOR SIZE: 1"

Always use the correct abrasive wheel for material being cut. Abrasive wheels come in different grades and bonds for specific materials. A good cut should be bright and not be blue and or discolored. If discoloration occurs the wheel is not cutting and is heating up the material. Use enough pull down force to make the wheel cut and breaks down. **Consult your local abrasive wheel dealer for abrasive cutoff blades.**

IMPORTANT: STEEL TOOTHED BLADES ARE NOT TO BE USED WITH THIS SAW. BLADE GUARD IS NOT DESIGNED TO BE USED WITH TOOTHED BLADES.

Parts Location can sometimes result in cutting problems. Be sure material is slightly ahead of wheel center (towards operator). On small diameter parts shim out the material to bring it towards the operator and slightly past wheel center. Keep wheel flanges clean and flat to ensure true running of the wheel.

Spindle can be locked to change the wheel by using one of the vise jaw pins in the hole in the spindle housing. **Be sure when your locking the spindle use hardened steel. If soft material is used to lock spindle it will break in the housing. The spindle nut is a LH thread. Do not use a hammer or an impact gun to tighten nut. Hand tighten only.**

SAW MAINTENANCE

Always check v-belts for correct tension. Loose drive belts will cause slipping and poor cutting and will burn belts up. Tighten v-belts by loosening motor bolts, use a belt tightener to spread the pulleys for tension. The Approximately 1/2" of squeeze is needed on the v-belt for tension. Use a straight edge to keep both pulley faces parallel to eliminate v-belt wear when tightening. Keep machine and work area **CLEAN**. Ball bearings are sealed and do not need greasing.

MACHINE SAFETY

- **ALWAYS WEAR SAFETY GLASSES.**
- **TIE BACK HAIR.**
- **NOT WEAR GLOVES. (CAN GET CAUGHT IN EQUIPMENT)**
- **DO NOT HAVE LOOSE CLOTHES (CAN GET CAUGHT IN BLADE).**

KM14 REPLACEMENT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-001	STAND FOR KM14	1
2	556-008	PLATE, SQUARE FOR KM10-14	1
3	FSCA037020	3/8-16 X 1-1/4 FSHCS	4
4	FHN5037	3/8-16 FHN GR5 Z	8
5	UFWZ037	3/8 USS F/W Z	8
6	SLWZ037	3/8 SPLIT L/W Z	12
7	050-036	BASE, ROUND PLATE KM14	1
8	044-006	TABLE BEARING (38KD1) FOR KM10, KM14 MITRE SAWS	2
9	044-007	K10 BEARING	1
10	HHC5031012	5/16-18 X 3/4 HHCS GR5 Z	4
11	SLWZ031	5/16 SPLIT L/W Z	12
12	049-001	ECCENTRIC BUSHING FOR KM10 AND KM14 MITRE TOP	1
13	HHC5031016	5/16-18 X 1 HHCS GR5 Z	1
14	454-004	LOCK, TABLE MITRE FOR KM10, KM14	1
15	699-005	SPACER, VISE FOR KM10 AND KM14 SAWS	1
16	696-013	SCREW, TABLE LOCK FOR KM14 MITRE SAW (5 LONG)	1
17	441-002	K10-16 VISE LOCK HANDLE KNOB	3
18	381-012	HANDLE, TABLE LOCK FOR KM14	1
19	RUDZ007008	#7 X 1/2 RD U-DRIVE SCREW Z	1
20	RARA012008	1/8 ROUND HEAD RIVET	2
21	SSSA025006	1/4-20 X 3/8 SOC SET CUP PT	1
22	FHN5062	5/8-11 FHN GR5 Z	1
23	CPNZ062	5/8-11 CAP NUT Z	1
24	386-001	K10-16 VISE HOUSING	2
25	645-009	VISE ROD (LONG) FOR KM10, KM14, K12-14W, KM16-18	2
26	454-001	K10-16 VISE CAM PLATE	2
27	697-001	K10-16 VISE ROD SPRING	2
28	129-001	K10-16 VISE CAM	2
29	381-001	K10-16 VISE HANDLE	2
30	562-001	VISE JAW PIN FOR K10B, K12B, K14B, KM16-18 VISE ASSEMBLIES	2
31	441-001	K10-16 VISE ROD KNOB	2
32	SSSA025024	1/4-20 X 1-1/2 SOC SET CUP PT.	2
33	SSSA025022	1/4-20 X 1-3/8 SOC SET CUP PT.	2
34	FHN5025	1/4-20 FHN GR5 Z	4
35	SSKA010004	10-24 X 1/4 SOC SET KNURL PT	2
36	641-016	RETAINING RING SHR-62 ST PA 5/8 BLACK PHOSPHATE FOR S6, S460W, S612	2
37	431-001	FRONT VISE JAW K10, K14, KM14	2
38	SCHA031032	5/16-18 X 2 SHCS	20
39	699-004	SPACER, FENCE FOR KM10 AND KM14 SAWS	2
40	293-001	MITRE FENCE FOR KM10, KM10HS, KM14	1
41	HHC5037020	3/8-16 X 1-1/4 HHCS GR5 Z	8
42	831-010	TRUNNION FOR KM14	1
43	SHCA037016	3/8-16 X 1 SHCS	3
44	002-002	K12-14 SAW ARM	1
45	562-019	TRUNNION PIN FOR KM14	1
46	697-018	K12-K14 TRUNNION SPRING	1
47	044-001	K12 BEARING	2
48	701-002	SPINDLE W TIGHT FLANGE FOR K12B, K14B, K12-14W, KM14, K12-14MS	1
49	292-004	K12-14 LOOSE FLANGE	1
50	LJNP101	1-14 LEFT HAND JAM NUT	1
51	SSKA031006	5/16-18 X 3/8 SOC SET KNURL PT.	1
52	560-001	K12-14 SPINDLE PULLEY	1
53	486-001	5HP, 3HP, 3450RPM, 60HZ, 184T, F2 230/460 VOLT	1
54	560-002	MOTOR PULLEY K12-14B, K12-14W, K12-14MS, KM14	1
55	049-022	BUSHING FOR MOTOR PULLEY, FOR K12B, K14B, AND KM14	1
56	051-006	V-BELT (TWO REQUIRED) FOR K12, K14, KM14 SAWS (SAME AS 051-009)	2
57	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	3
58	342-086	K12-14 INNER BELT GUARD ASSEMBLY FOR PLASTIC GUARD	1
59	UFWZ031	5/16 USS F/W Z	2
60	342-004	K12-14 OUTER BELT GUARD/PLASTIC	1
61	381-002	HANDLE W GRIP FOR K12-14 SAWS	1
62	342-025	WHEEL GUARD FOR K12-14B SAWS	1
63	SSBA062044	5/8 X 2-3/4 SOC SHOULDER BOLT	1
64	645-013	ROD STOP FOR KM14	1
65	FJNZ062	5/8-11 F H JAM NUT Z	1
66	347-003	HANDLE GRIP FOR K12 THRU K26 SAWS	1
67	041-057	SWITCH BRACKET FOR K12-K14	1
68	696-014	SCREW, STOP FOR KM14	1
69	FHN5050	1/2-13 FHN GR5 Z	1
70	562-020	TABLE INDEX PIN FOR KM14	1
71	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	2
72	SLW2025	1/4 SPLIT L/W Z	2

