

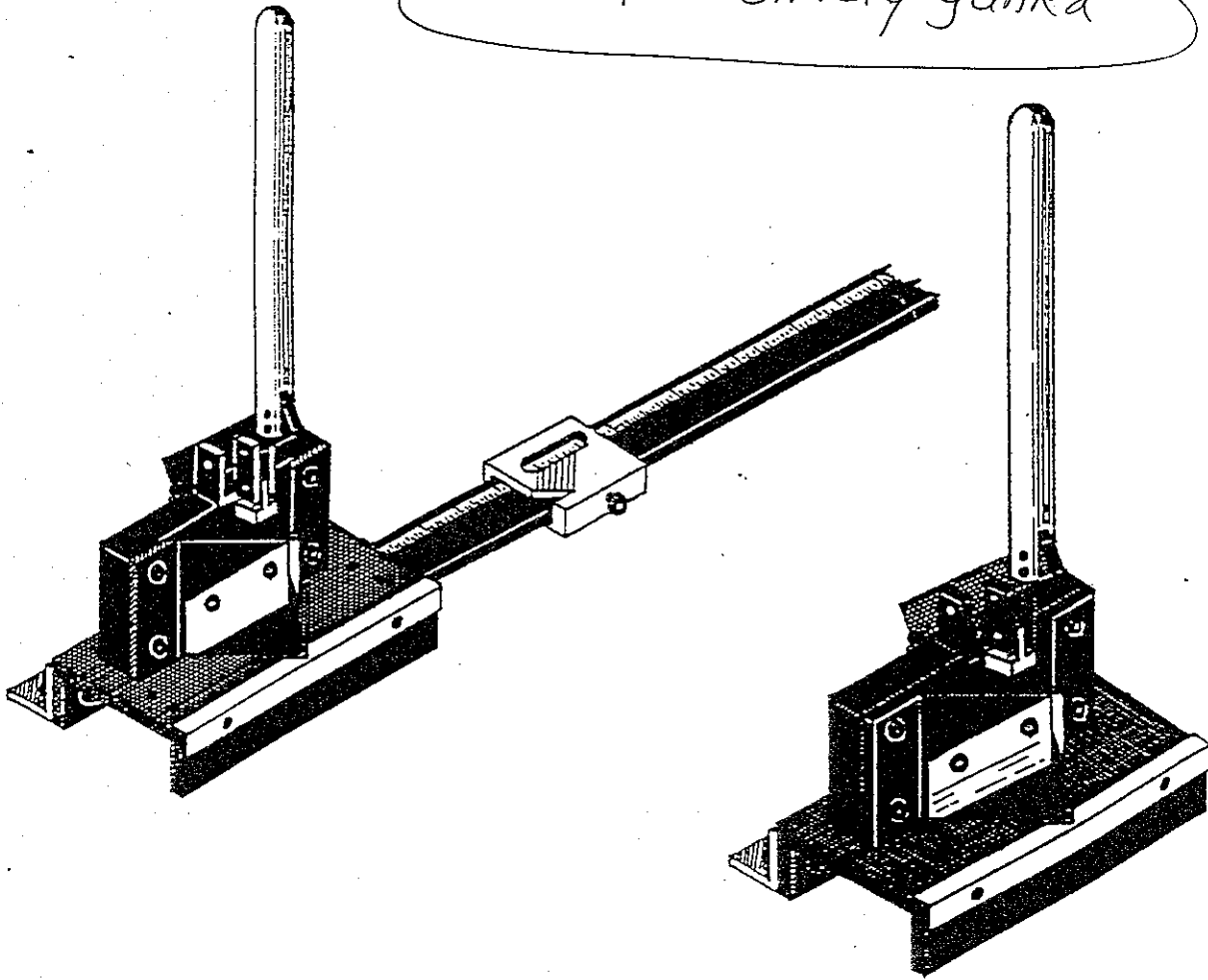
# INSTRUCTION & OPERATION MANUAL

FOR THE

## MINI-MITRE™

HAND OPERATED FILLET CHOPPER

# 224<sup>28</sup> SAFETY GUARD



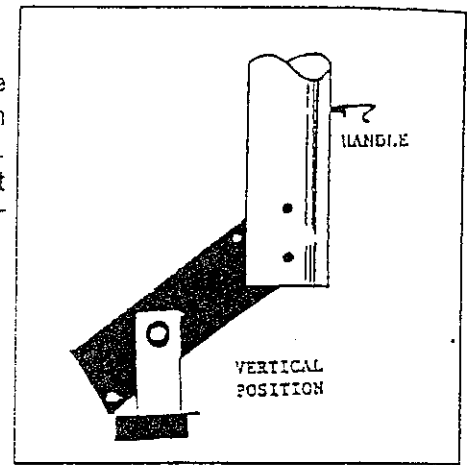
# TWAMP

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Buffalo Grove, Illinois 60089  
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## 1: SET UP UNIT:

Remove the MINI-MITRE unit & handle from the box. Unwrap the handle with 2 screws attached. Use the larger allen wrench to attach the handle to the top lever of the machine. See illustration at right. If you have the optional measuring arm, mount it to the side bracket of the MINI-MITRE now before mounting the entire unit to a board or bench.

The small allen wrench fits the blade screws.



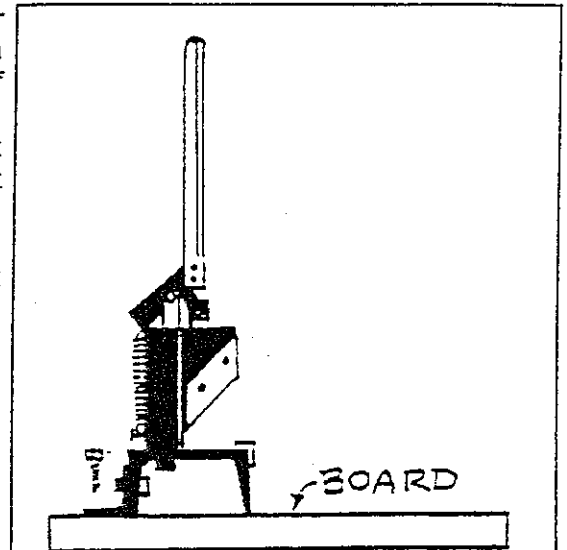
## 2: MOUNTING THE UNIT:

The MINI-MITRE can be mounted directly to a work bench or attached to a small board for portability. When mounting to a board, position the unit to the back of the board so that most of the wood is in front of the unit. This will eliminate tipping.

A 6" x 8" board is large enough. You could also mount the unit to a wall provided there are studs handy to use. It's best to first mount the unit to a 1"x4" board long enough to span at least 2 studs in your wall.

Using a longer board will allow you to build in some support for the fillet on either side of the unit as well. Small dowels work well for this.

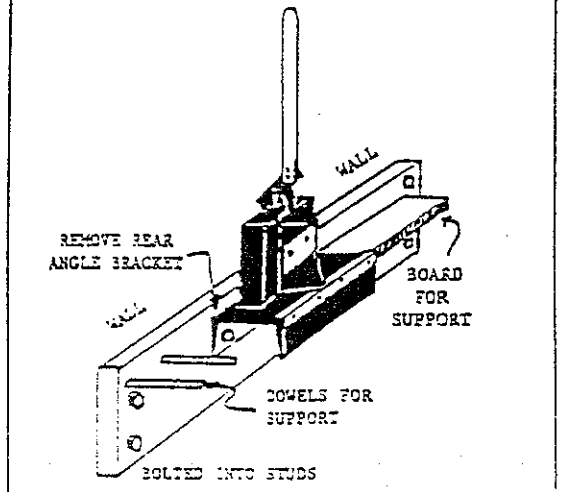
NOTE: When mounting to a wall, first remove the back angle bracket. Mount through the holes in the base channel to the board, then lag bolt the board and unit to the studs.



## 3: OPERATION:

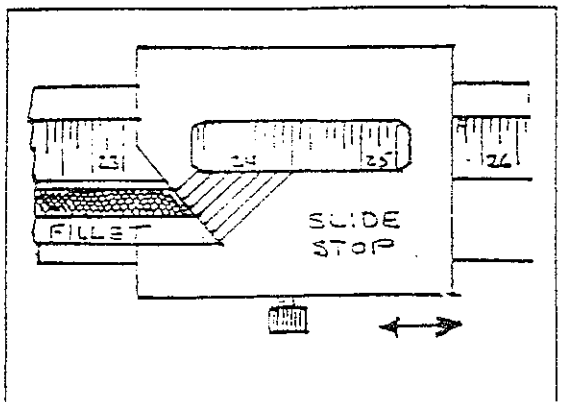
The MINI-MITRE is a precision tool designed to cut small fillets of wood, matboard, or plastic at precise 45° angles. DO NOT cut small wood or aluminum mouldings.

NOTE: Aluminum wrapped fillet or plastic fillet with a soft aluminum core CAN be cut easily, but it will usually require a trim cut afterwards to ensure a perfect miter. Therefore you should *overcut* these fillets by 1/8" and then recut to exact size.



## 4: MEASURING FILLET WITH MEASURING ARM:

If you're using the optional measuring arm, make your first edge cut and slide the fillet over to the slide stop. Align the stepped edge of the fillet with one of the slanted lines. Follow the slanted line up to the ruler to set the stop. Tighten the screw when you have the correct dimension in the window. Check the cut piece of fillet in the mat for trimming to size.

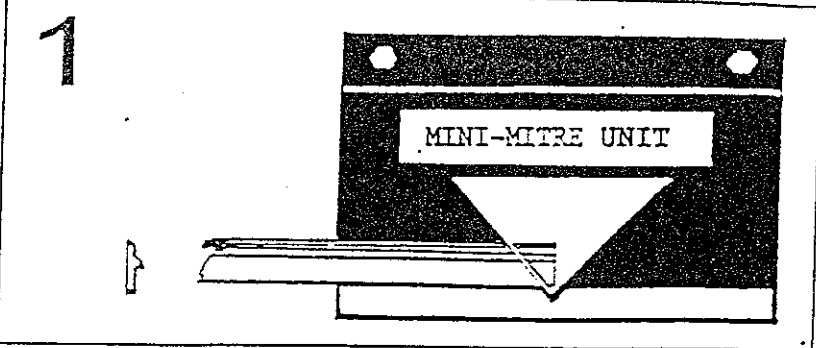


**3. MEASURING WITH AN EXTENSION**

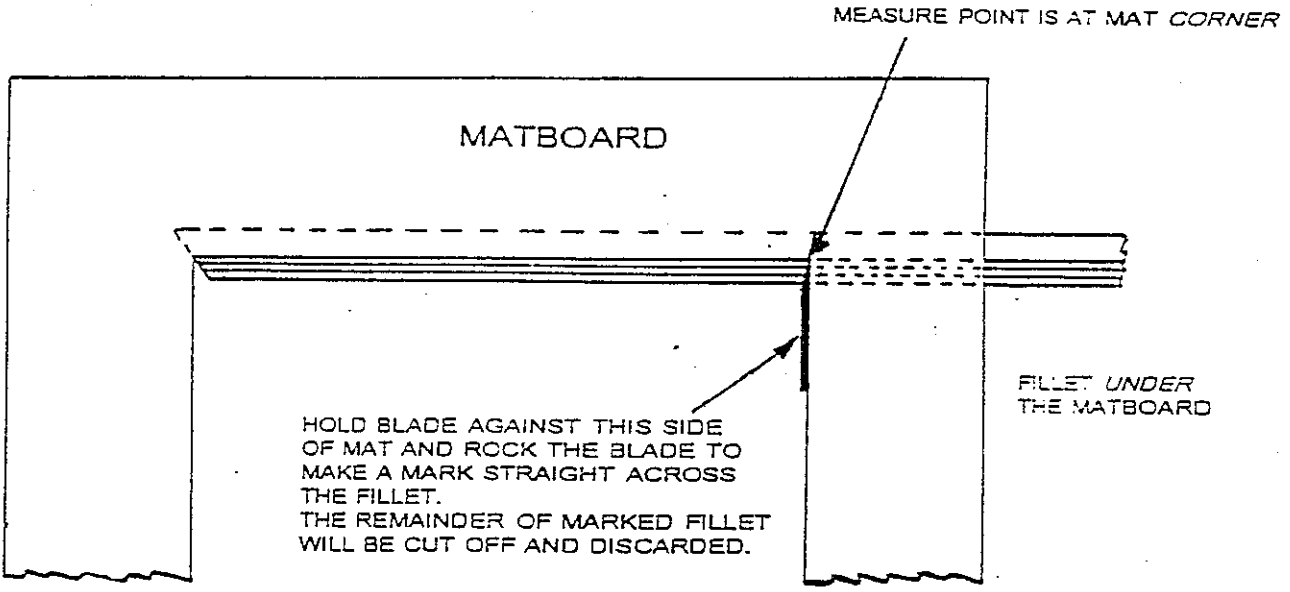
**STEP 1:** Place fillet on MINI-MITRE with the flat flange portion against the front guide. Cut off one end to create the first 45° corner

**STEP 2:** Place the cut fillet under the mat so that the cut end will fit into one corner of the opening. Hold the fillet in place with one hand and use the other hand to mark the fillet with an exacto knife or a used mat cutter blade. Make the mark straight across the fillet. Remove the fillet from under the mat and continue the mark using the blade to make it easy to see.

**OPTIONAL METHOD:** Use a straight ruler to measure the mat opening. Transfer the ruler and your finger to the fillet flange. Mark the fillet.

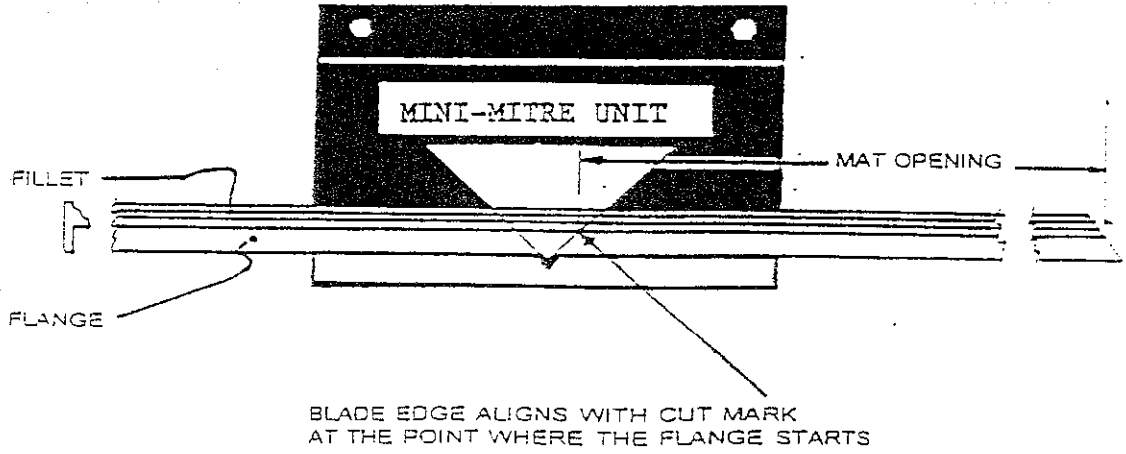


**2**



**STEP 3:** Place the marked fillet onto the MINI-MITRE so the flange is against the front guide. Slide the fillet over, so that the mark is under the blade. Sight down onto the blade to align the mark with the blade edge. Cut through the fillet with a smooth motion. Check the cut rail in the mat opening for fit. It should be cut so there is a small amount of play in the opening. 1/64" to 1/32" is about right, since the other pieces will eventually tighten the fit in the opening. The MINI-MITRE is designed to shave very small amounts from the cut edge so you can get a perfect fit. A little practice will make you an expert in a short time.

**3**

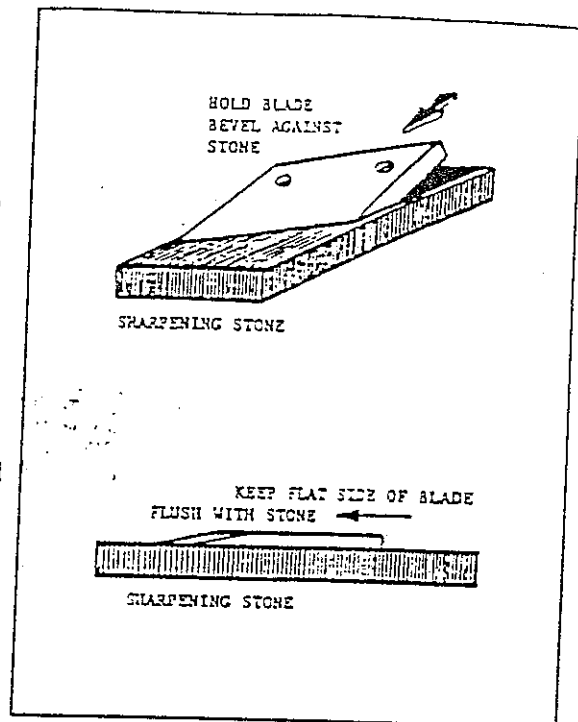


## 8. SHARPENING/REPLACING BLADES:

The two cutter blades are made from tool steel and can be sharpened easily with an oil stone. (The kind used for sharpening jack knives, etc. and available at K-Mart or similar stores.)

It's best to use a stone that is 1-1/4" to 1-1/2" wide x 3" to 4" in length. Both blades can be removed using the small allen wrench supplied with the unit. Please be extremely careful when handling the blades. The sharp edges can cut easily. Hold the with the bevel against the stone and push forward as shown in the drawing.

Lift the blade slightly on the backstroke and bear down on the forward stroke. After 10-15 passes on the stone, you can lay the flat side against the stone and gently stroke it forward several times to remove the burr that forms. DO NOT tip the flat side of the blade UP on the stone. This surface must remain flat for an accurate cut. When you're finished, it's good practice to strop the blade edge backwards against a piece of leather or heavy cloth, several times to remove the rolled edge that forms when sharpening. Remount the blades using the original screws. If your blades become nicked or damaged beyond repair, replacement sets are available from your supplier.



## ADJUSTMENTS:

Although the MINI-MITRE unit comes from the factory fully adjusted, wear on some parts could require that adjustments be made in the future. If the vee-block which moves in the dovetail slide becomes loose, simply loosen the screws on one side just a little and tap the guide bar towards the vee-block. Snug the two screws and check for binding through the entire movement. If it is too tight, tap the vee-block in the opposite direction slightly, and recheck. If replacement blades do not fit exactly the same as the original blades, the vertical block (item #2 in parts drawing) can be moved by loosening two bolts under the base channel. Retighten after the correct alignment is achieved. NOTE: All nuts and bolts are metric.

## PRECAUTIONS:

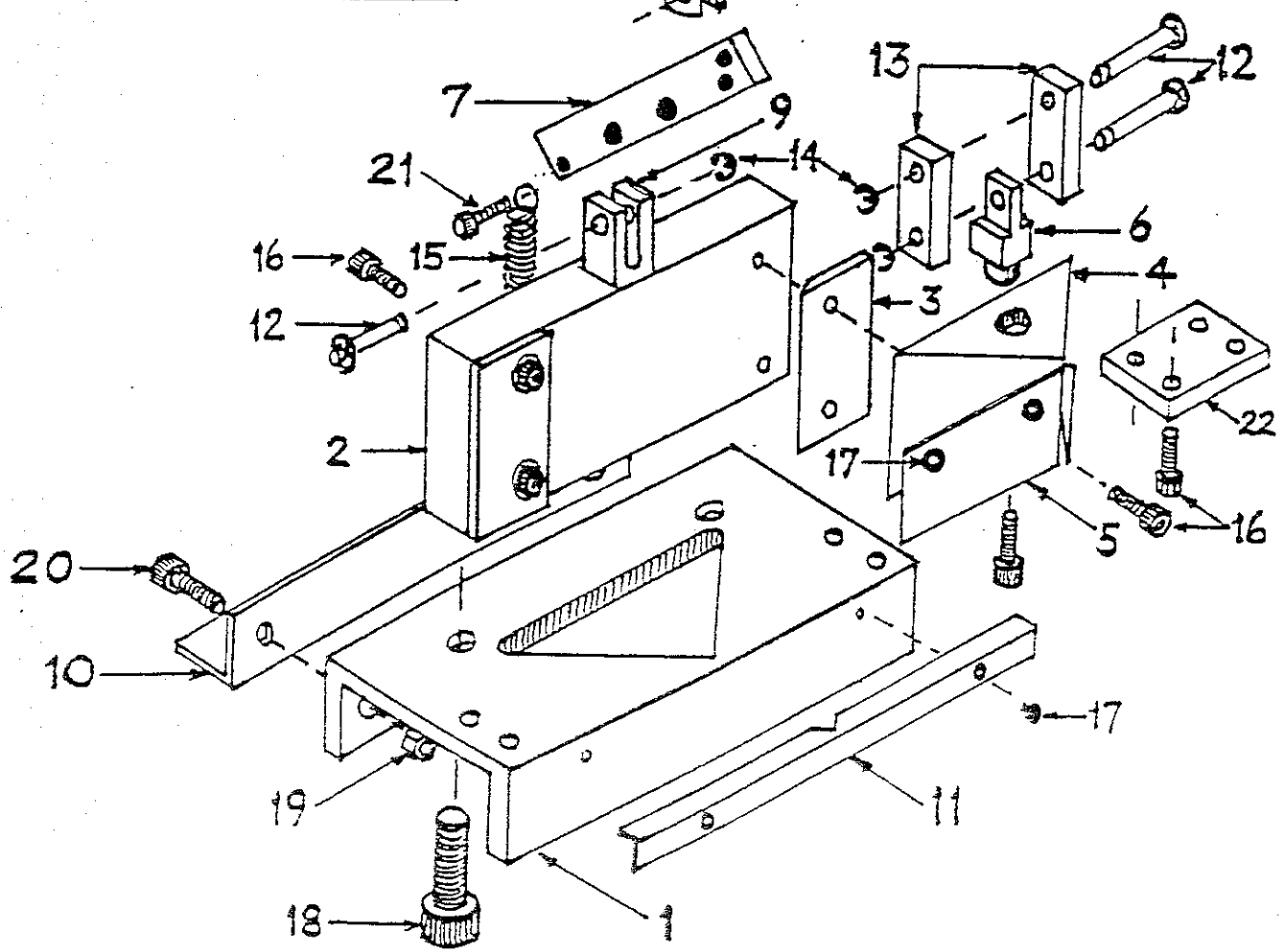
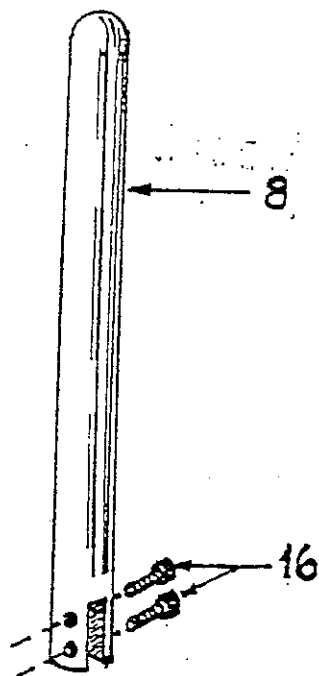
The aluminum handle provides for a 10 to 1 mechanical advantage. DO NOT try to increase the length of the handle with a piece of pipe or other device. Damage to the unit could result from overstressing components in this way, and will VOID THE WARRANTY!

## LIMITED WARRANTY:

Manufacturer warrants this equipment to the original Purchaser to be free from defects in material or workmanship for a period of one (1) year from date of purchase on the complete machine. This Limited Warranty shall be limited to the repair or replacement, at the sole discretion of the manufacturer, of any defective part or parts. In the event of a defect in material or workmanship within the period of this Limited Warranty, Purchaser will return to Manufacturer's Warranty Service Center, TRANSPORTATION PREPAID, the defective equipment. MODEL AND DATE OF PURCHASE WILL BE REQUIRED ON ANY PRODUCT SO ASSOCIATED WITH ANY WARRANTY CLAIM. Failure of this equipment caused by accident, corrosion, misuse or abuse of the equipment including but not limited to, damages or defects resulting from improper packaging of returned equipment or improper repairs made by others, is not covered by this Limited Warranty. Manufacturer reserves the right to determine whether the defect is covered by this Limited Warranty. If Manufacturer determines that the returned equipment is not covered by this Limited Warranty, then at Purchaser's option, such equipment shall be either: 1) returned to Purchaser, TRANSPORTATION COLLECT, or 2) repaired or replaced on the basis of Manufacturer's regular repair, replacement, or reconditioning charges, which charges shall be payable by Purchaser, C.O.D. This Limited Warranty extends only to the initial Purchaser and may not be transferred to subsequent owners.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE AND PURPOSE. PURCHASER AGREES THAT THE SOLE AND EXCLUSIVE REMEDY AGAINST MANUFACTURER SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS. PURCHASER FURTHER AGREES THAT NO OTHER REMEDY, INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS, SHALL BE AVAILABLE TO IT, AND, IN ANY EVENT, THE LIABILITY OF MANUFACTURER FOR ANY DAMAGES SHALL BE LIMITED TO THE PURCHASE PRICE OF THE EQUIPMENT.

EM	QTY.	PART NO.	DESCRIPTION
1	1	1000-1	BASE CHANNEL
1	1	1000-2	VERTICAL SLICE BLOCK
2	2	1000-3	SLIDER RETAINER PLATE
1	1	1000-4	V-BLOCK BLADE HOLDER
1	1	1000-5	SET OF CUTTER BLADES (RH & LH)
1	1	1000-6	PIVOT CLEVIS
1	1	1000-7	PIVOT ARM
1	1	1000-8	ALUMINUM HANDLE
1	1	1000-9	PIVOT YCKE
1	1	1000-10	REAR ANGLE BRACKET
1	1	1000-11	FRONT GUIDE
3	3	1000-12	PIVOT SHAFT
2	2	1000-13	PIVOT ARMS
6	6	1000-14	C-CLIPS
1	1	1000-15	EXTENSION SPRING
10	10	1000-16	SOCKET HEAD CAP SCREW
6	6	1000-17	SOCKET HEAD SCREW
2	2	1000-18	SOCKET HEAD CAP SCREW
2	2	1000-19	NUT
2	2	1000-20	SOCKET HEAD CAP SCREW
1	1	1000-21	SOCKET HEAD CAP SCREW
1	1	1000-22	EXTENSION BRACKET



MINI-MITRE PARTS LIST