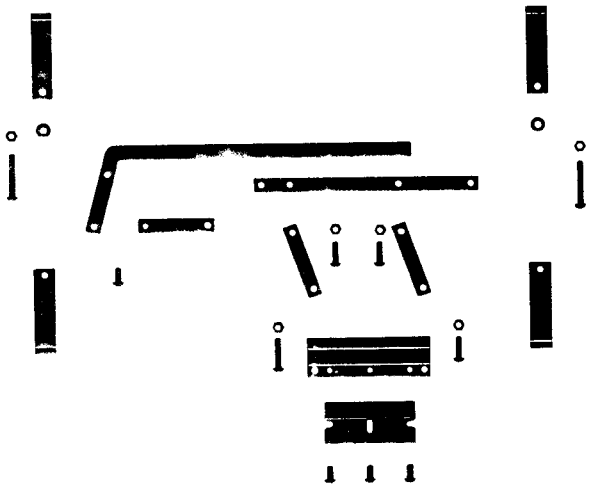
Shay Wood Miter

By TRENT ENGINEERING
Pat. Pend.



(Figure 1)

You are now the owner of the finest stripwood cutting instrument ever designed for the hobbiest. Shay's wood miter enables quick and accurate stripwood cutting never before available to the home hobbiest. We know you'll agree once you've used it.

> CAUTION! The miter is not a 'toy' and injury may result with improper use. Never place fingers under the blade to remove anything. Always remove cut material from back or front with tweezers.

Read the instruction completely and familiarize yourself with the parts and drawings before beginning assembly.

STEP 1
Lay parts out as shown in figure one. Referring to the isometric (Fig. 2) for assembly, attach arms B1 & B2 to the backside of A using 3/8" long screws & nuts. Attach D to the back and bottom hole of C (Arms B1,B2 and D are the same except D has one threaded hole) with a ¼" screw. Assemble legs E1 & E2 to A with a 3/4" screw and nut. Add four spacer washers to the back side of A before adding E2. Using a 3/4" screw and nut assemble leg E3, A, C, four spacer washers and leg E4. Attach arm B1 to the righthand outside hole of plate G with a 3/8" screw and nut. Attach B2 and D to the lefthand outside hole of G with a ½" screw and nut. Do NOT tighten screws and nuts yet.

STEP 2
Mount assembly on miter base using a ½" screw and nut to hold each leg, and tighten securely. At this point go back and tighten all screws and nuts. The mechanism should move with light pressure on arm C but should not swing freely. We recommend you add a drop of Loctite,Goo or alpha type cement to each nut.

STEP 3
Attach stop block to the base using the brass thumb screw and rectangular nut. Add the scale using the two self taping screws. The "HO" side of the scale should be against the edge of the stop block if you model in "HO". The "O" side should be against the stop block if you model in "O".

STEP 4
Attach the #9 industrial razor blade to plate G using the remaining three ¼" screws. The miter is now ready for use after you adjust the scale. Using a piece of bass or balsa wood cut a piece to scale length at least 5'0". Bring the blade down to the just cut position and place the wood, cut to length, behind the blade. Holding the wood against the edge of the guide, slide the stop block forward until it touches the wood and lock it with the thumb screw. Slide the scale in the direction required to achieve the dimension of the cut wood and then tighten the self taping screws. <u>The rear lefthand corner of the stop block acts as the pointer</u>.

#9 replacement blades may be purchased at some hobby stores and most art supply stores - a pack of 100 is about $2.00.

We try and be careful but like all other humans we sometime make "misteaks". If a part is missing we will be glad to replace it. Just circle the part on the parts list and mail it to:

TRENT ENGINEERING
18474 Amistad, Unit J
Fountain Valley, Ca. 92708

BE SURE AND GIVE US YOUR NAME AND RETURN ADDRESS!!!!!

HAPPY MODELING!

Do you model in "S" or "N"? If you do we have a scale for you. Send us a large (over 6") stamped, self addressed envelope and 75¢ and we will mail it to you the same day we recieve your request.

PARTS LIST

QTY	PART NUMBER	DESCRIPTION
1	A	Mounting Arm
2	B	Linkage
1	C	Arm
1	D	Threaded Linkage
4	E	Leg
1	G	Blade Mount Plate
1		Base
1		Stop Block
1		Scale
1		Thumb Screw
1		Rectangular Nut
2		3/4" Screws
5		½" Screws
3		3/8" Screws
4		¼" Screws
8		#4 Spacer Washers
10		Hex Nuts
2		Self Taping Screws

FINAL ADJUSTMENT: After assembly of your miter you may find the blade does not come down flat against the base. This is caused by a slight variance in the steel parts. Tolerances were purposely held as loose as possible to keep manufacturing costs as low as we could. Precision parts are expensive!

Two extra washers have been included in the kit which are not shown on the assembly drawing nor listed on the parts list. If one end of the blade digs in to the base install the washers between the legs and the base on the same end the blade digs in. In some cases a small amount of material must be filed from the bottom of the legs.

CHANGE NOTE: The blade mount plate (part G) has been changed from the plate shown in the drawings, to a bar.

In addition to cutting strip wood we've found the miter does an excellent job of cutting Campbell's scribed (corrugated) aluminum to scale width.

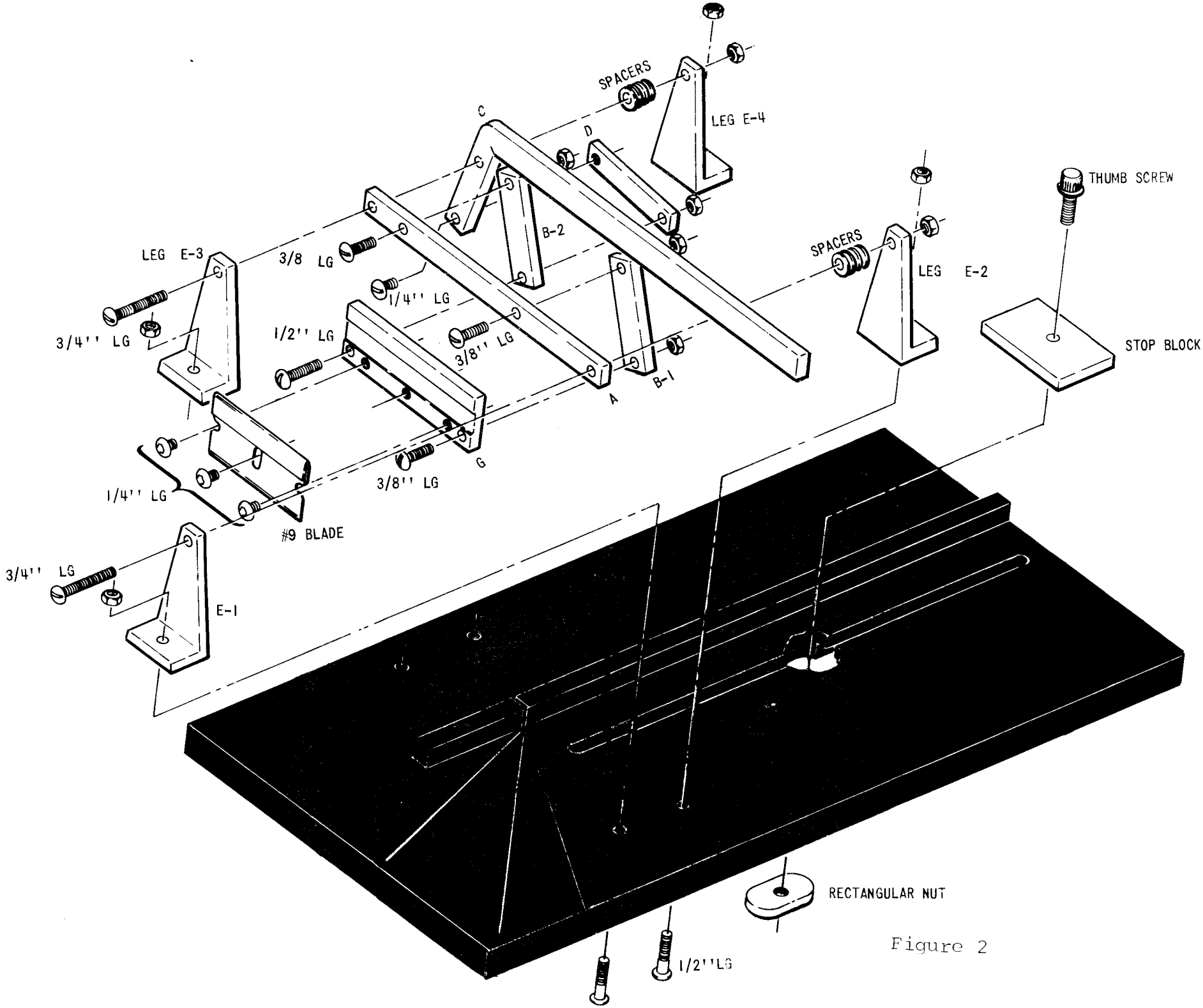

SPACERS
LEG E-4
C
D
B-2
THUMB SCREW
SPACERS
LEG E-2
LEG E-3
3/8 LG
1/4'' LG
3/4'' LG
1/2'' LG
3/8'' LG
STOP BLOCK
B-1
A
G
1/4'' LG
3/8'' LG
#9 BLADE
3/4'' LG
E-1
RECTANGULAR NUT
1/2''LG

Figure 2