

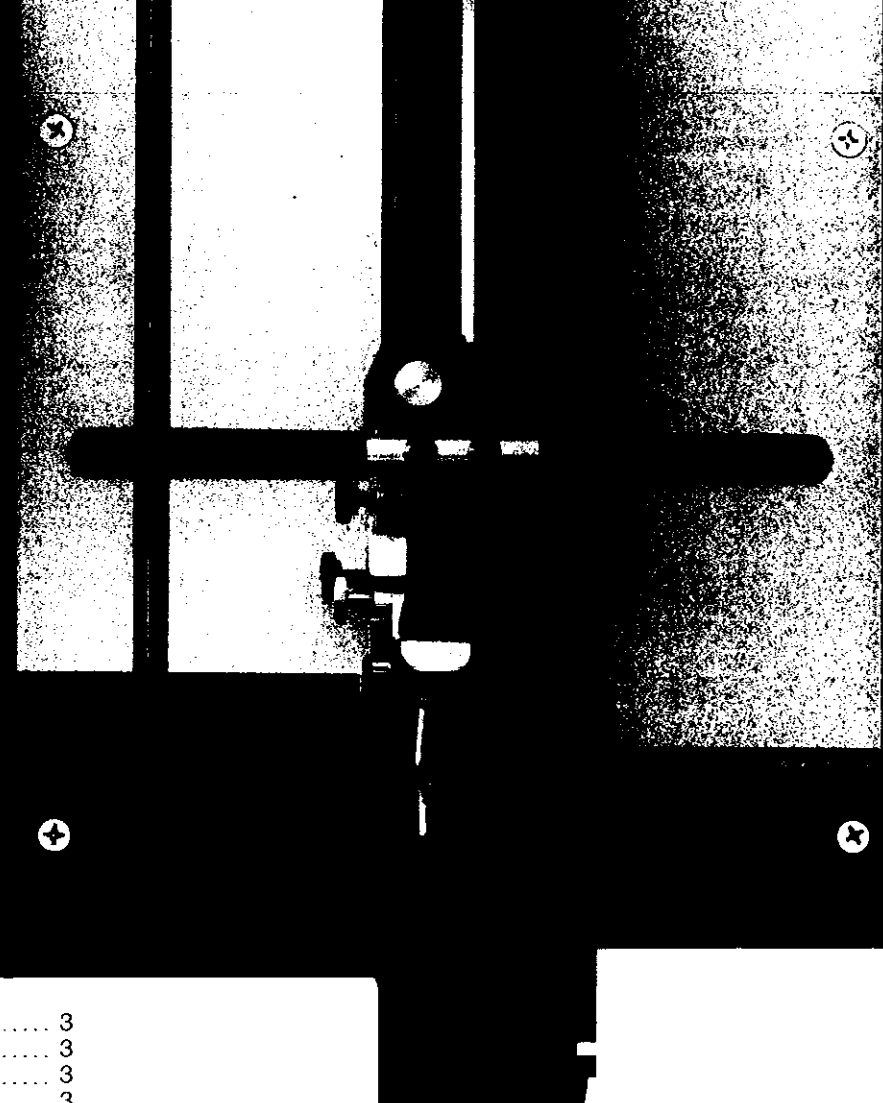
GH ADVANTAGE™ PRO
G-60 PRO Cardboard & Glass Cutter

**Operating Manual
and Parts List**

Model # G60 for cutting:

- Matboard
- Glass
- Plexi-Glass

NIELSEN & BAINBRIDGE



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Introduction

Congratulations! The C&H Advantage Pro G-60 is the finest combination matboard, glass and plexi-glass cutter available. With proper use and maintenance, this cutter will provide you with years of top quality service. Continue to read through the entire manual to familiarize yourself with the Pro G-60's numerous features and advancements. In addition to this Operating Manual, the technical service staff is available to answer any questions you have regarding the operation or set-up of your Pro G-60. Call 1-800-537-9311, from 9:00 AM - 5:00 PM EST.

Specifications

Cutting Capacity:

	Matboard	Glass	Plexi-Glass
Length	60"	60"	60"
Thickness	1/2"	1/4"	1/4"

Cutter Dimensions:

	Clamp Closed	Clamp Open
Height	77"	69"
Width	69"	69"
Depth	19"	22 1/2"

Weight: 103 lbs.

Contents

Introduction

Specifications

Cutter Components

A. Left Material Support – Provides support for the material being cut and adds additional rigidity for the Material Rest.

B. Material Rest – Sturdy, solid steel, one piece design. Remains square and in line from right to left.

C. Material Clamp – Combination clamp and track for cutting head. Clamp holds material firmly without slippage or crushing.

D. Cutting Head – Contains self-lubricating bushings. Blade holder quickly and easily changes from glass to matboard cutting position.

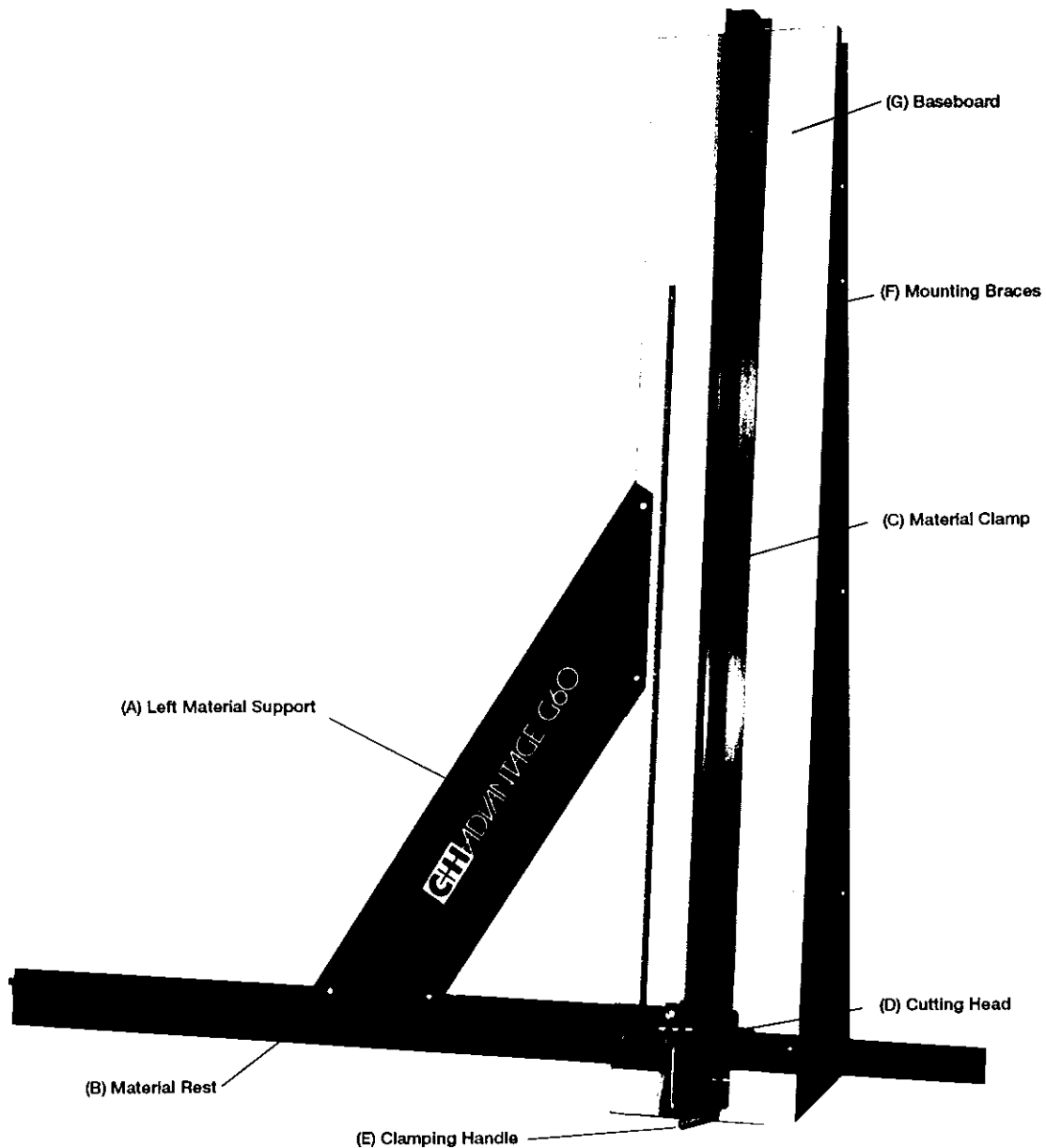
E. Clamping Handle – Used to open and close the Material Clamp.

F. Mounting Braces (Left and Right) – Provides mounting support. Braces can either be wall or table mounted.

G. Baseboard

Carton Contents

- Main Assembly
- Material Rest
- Left Material Support
- Mounting Braces (Left & Right)
- Parts Bag (2)
- Operating Manual and Parts List
- Dust Brush



Cutter Components

Carton Contents

Assembly and Set-Up

Tools/Hardware Required:

- Tape Measure
- Large Phillips Head Screw Driver
- 7/16" Wrench
- Lag Bolts
- Toggle Bolts (For Wall Mounting Only)
- Framing Square (Must be Square Within 1/32")
- Drill

Assembly Procedure

You may choose to either wall mount or table mount your cutter. Wall mounting is preferred as it will provide you with a more stable surface.

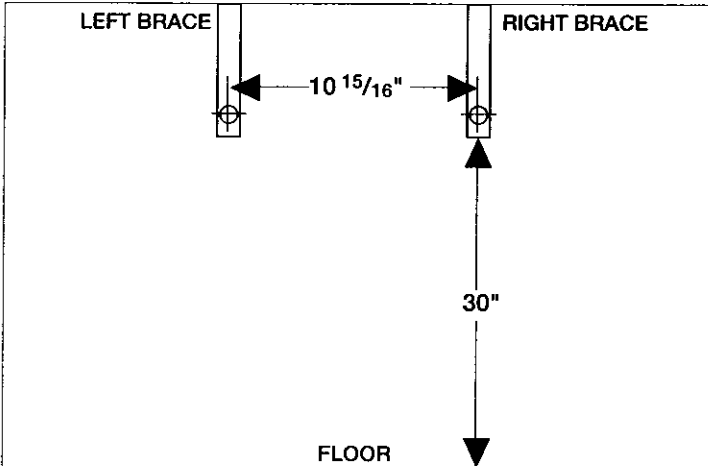
NOTE: There is a left brace and a right brace. It is necessary to mount them as indicated with the straight edge against the wall.

Wall Mount

Locate a stud if possible for mounting one of the braces with four (4) lag bolts. The bottom should be about 30" from the floor for optimum cutting height. Mount the other brace so that it is even with the first brace using toggle bolts if you are mounting directly into drywall. The braces should be mounted so that the holes are 10 15/16" apart from center to center.

Table Mount

You must use a sturdy table to prevent the cutter from pulling the table over. Mount the left and right braces so that the front mounting holes are 3/4" back from the front edge of the table. The mounting holes should be 10 15/16" apart from center to center. You will need four (4) lag bolts to attach the braces to the table.



Wall Mount

Insert the Material Rest onto the Baseboard

Open the material clamp by pulling up on the clamping handle. Insert the material rest under the clamp, and through the slot that has been milled out of the baseboard. You will need to open the clamp as much as possible. Once it is in place, loosely secure it to the baseboard with two (2) 1 1/2" phillips head screws that have been provided.

Attaching the Main Assembly

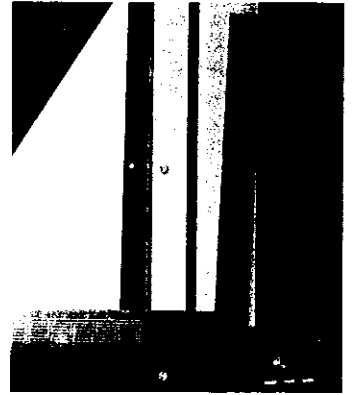
While holding the baseboard against the braces, have someone secure the baseboard to the mounting braces with the 1 1/2" screws and 1/4" nuts that have been provided.

Attach the Left Material Support

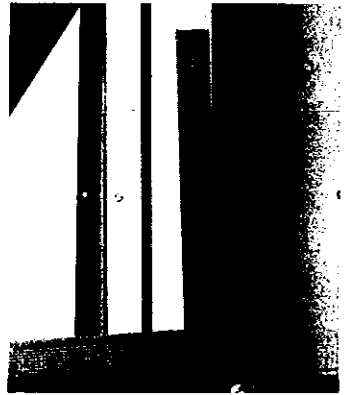
Attach the left material support to the baseboard with two screws. Do not attach the left material support to the material rest at this time. This will be done in the next section.

Squaring Adjustments

Close the clamp by pushing down on the clamping handle. Place a framing square, or factory cut piece of glass, along the left side of the material rest, and slide it over to the left edge of the material clamp. If the squaring device is not parallel to the material clamp, then adjust the material rest according to the diagrams shown below.



Material rest is too high – lower the left side.



Material rest is too low – raise the left side.

When the material rest is perpendicular to the material clamp, the hardware that holds it onto the baseboard can then be tightened. Now you can attach the left material support to the material rest with the two 1/2" phillips head screws.

Your cutter should now be set up, properly adjusted and ready to use.

Assembly and Set-Up

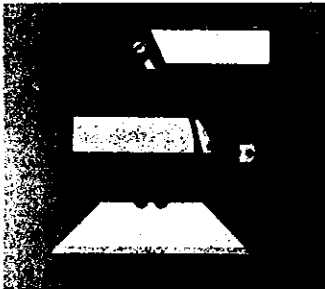
Operation

- A. Blade Trigger
- B. Locking Pin
- C. Glass Cartridge
- D. Plexi-Cartridge
- E. #1992 Utility Blade
- F. Blade Trigger Latch
- G. Adjustment Screw – Glass Tension
- H. Adjustment screws – Head Assembly

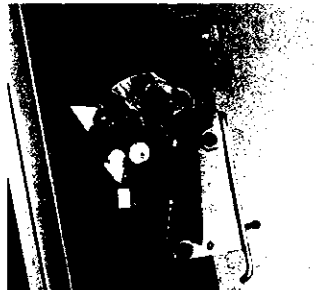
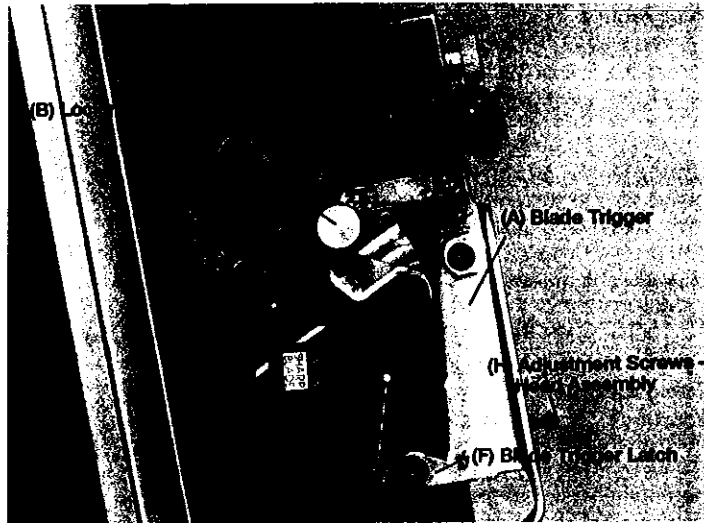
Positioning Blade Holder

The G-60 ADVANTAGE PRO has been designed so that the blade holder can easily change from the glass cutting position to the matboard cutting position with ease and speed. The blade holder should be pivoted with the blade trigger in the latched position and with the material clamp in the open position. To latch the blade trigger, make sure the cutting head is on the bottom of the material clamp and push the blade trigger in. It will catch on the blade trigger latch.

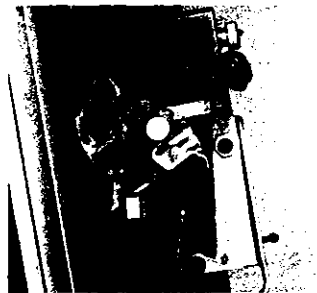
To pivot the blade holder, pull the locking pin straight out, pivot the blade holder to the desired position and then push the locking pin back in.



Blades and Cartridges



Matboard Cutting Position



Glass Cutting Position

Cutting Matboard

Make sure the blade holder is in the matboard cutting position, and has a sharp #1992 utility blade.

Open the material clamp and slide the matboard under the clamp and position it at the desired dimension. Close the clamp.

Raise the cutting head above the matboard with the blade trigger still in the latched position. When the blade holder is above the material, push in on the bottom of the blade trigger to release it from the latch. Now push up on the blade trigger. This will lock the blade in position making it possible to cut through some of the thickest and most dense material on the market.

Pull the cutting head down through the material until the cut is complete.

It is good practice to latch the blade trigger to the blade trigger latch at the end of each cut.

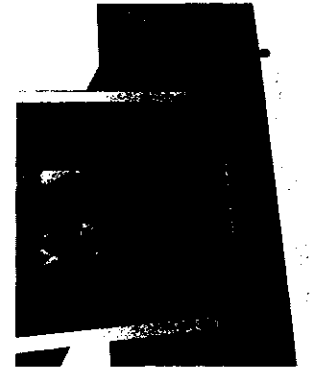
Blade Replacement

Pivot the blade holder to the glass cutting position.

To replace the blade, loosen the knurled knob that holds the blade in place. Remove the blade and either replace it or flip it around to the unused side.

Trimming Premounted Work

It is possible to trim down premounted work by using the edge of the material clamp as a guide. (See diagram below.)



To do this, position the board under the clamp, lining up the mounted work 1/8" away from the edge of the material clamp.

Artwork courtesy of Downé Burns.
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Operation

Cutting Matboard

Trimming Premounted Work

Cutting Glass

Glass Safety –

Always wear gloves and safety goggles! When handling glass, grasp it with two hands on the top. Never carry it with one hand on the top and one of the bottom. This could cause it to buckle and break towards you.

Pivot the blade holder to the glass cutting position.

Open the material clamp and slide the glass under the clamp and position it at the desired dimension. Close the clamp.

Raise the cutting head above the glass with the blade trigger still in the latched position.

When the blade holder is above the material, push in on the bottom of the blade trigger to release it from the latch. Do not push up on the blade trigger. (It is not necessary to line up the glass wheel on the top edge of the glass.) Pull the cutting head down until the score is complete.

NOTE: The best score is one that is light and even. If the wheel skips along the surface, it is probably dull and needs replacing. If little shards of glass pop out along the score, then the score is too deep and the glass tension adjustment knob should be turned back. In short time, you will get to know the sound of a good score.

Breaking The Score

After you have made the score, slide the glass over to the right edge of the baseboard so that the score goes just beyond it by 1/8". Close the clamp. Grasp the top of the glass with your left hand and grasp the bottom right side of the glass with your right hand.

Push straight back with your right palm. This will cause the score to "run" up from the bottom to the top.

If you are trimming off less than two inches – or if you are uncertain whether the score skipped or not – do not break it along the baseboard. Remove it from the cutter and lay it on a flat surface using glass breaking pliers to start the score. (These are available through most framing supply or glass distributors.)



Proper hand placement for breaking glass score.

Replacing the Glass Wheel

To replace the glass wheel (part #G0237), remove the cartridge by loosening the knurled knob that holds it in place.

Remove the glass wheel from the cartridge.

Push in the new wheel.

Cutting Plexi-Glass

Included with your cutter in one of the parts bags is a plexi-cartridge with a plexi cutting blade.

Remove the glass cartridge and replace it with the plexi cartridge. (The point of the tool should be facing down.)

Open the material clamp and slide the plexi-glass under the clamp and position it at the desired dimension. Close the clamp.

Raise the cutting head above the plexi with the blade trigger still in the latched position. When the blade holder is above the material, push in on the bottom of the blade trigger to release it from the latch. Do not push up on the blade trigger. It is necessary to line up the plexi-glass blade on the top edge of the plexi-glass.

Pull the cutting head down until the score is complete. Repeat this process until you have made four (4) or five (5) scores. You should see curls of plexi as you make each cut.

Breaking The Score

Slide the plexi to the right edge of the baseboard so that the score goes just beyond the edge. Grasp the right edge of the plexi in the middle with your right hand, and the top edge with your left hand.

Push straight back with your right hand. This may require some effort as you are actually breaking the plexi as opposed to running the score as with glass.

Replacing the Plexi-Glass Cutting Blade

Remove the cartridge from the blade holder.

Remove the blade (Part #G0235) by loosening the slot head screw that holds it in place.

Replace the blade.

Maintenance

Cleaning

Keep the material rest free of glass and paper dust. Use the brush provided to do this.

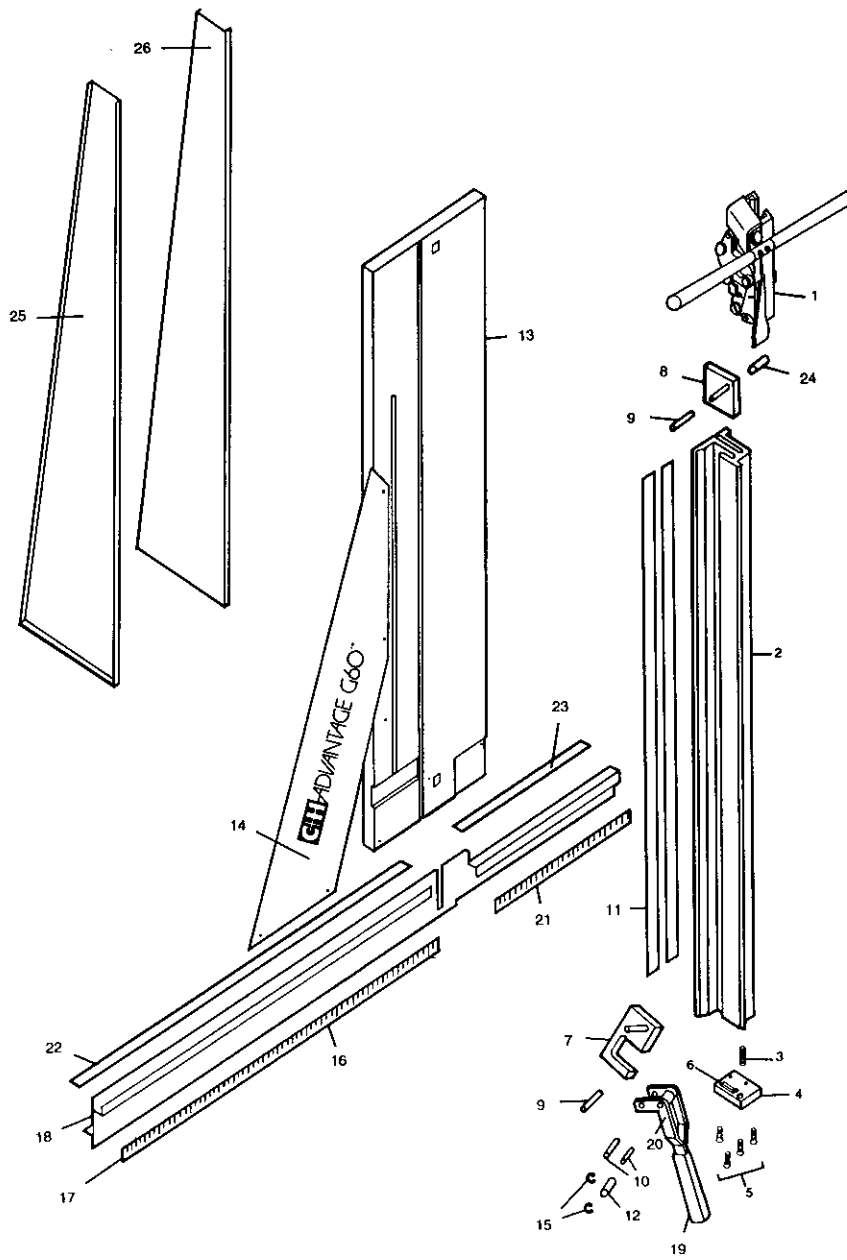
Wipe the material clamp with a soft cloth and solvent to remove dirt and debris.

Adjustments

If there is any looseness in the cutting head along the material clamp, tighten the adjustment screws. Any looseness may cause a curved or ragged cut. Check the material rest to make sure it is perpendicular to the material clamp (see set-up on page 5).

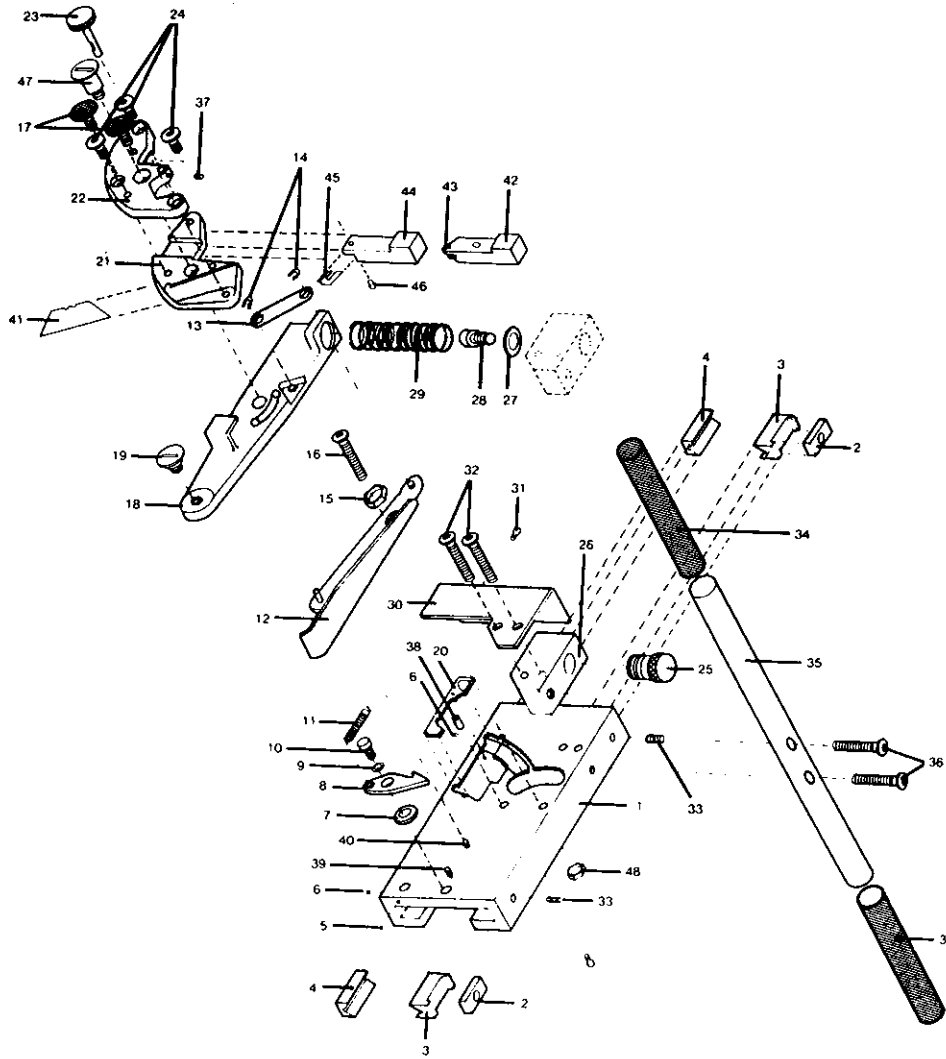
Trouble Shooting

Problem	Solution
Ragged Cut	Change blade.
Blade does not cut through matboard.	Dull blade or wrong blade. Use #1992 type blade. Make sure to lock blade by pushing up on the blade trigger.
Glass does not break evenly along score.	Dull wheel, replace. Not enough tension, tighten tension adjustment knob,
Top or bottom edge of glass chips.	Adjust tension screw for less pressure.
Final product is not square.	Check cutter for squareness and check squaring implement for squareness.



Item No.	Description	Part Number	Item No.	Description	Part Number
1.	G-60 Head Assembly	G60HD	14.	Left Material Rest Support	G0227
2.	Material Clamp	G0301-1	15.	Retaining Ring	G0309
3.	Bumper Spring	G0214	16.	Ruler (0-36 1/2")	G0279
4.	Plate - Bottom	G0305	17.	Ruler (36 1/2" - 48")	G0280
5.	Btn. Hd. Soc.	G0321	18.	Mat'l. Rest Assembly	G0311
6.	Rubber Stop	G0215	19.	Grip-Handle	G0313
7.	Block - Lower	G0294	20.	Handle	G0302
8.	Block - Upper	G0293	21.	Ruler (0" - 19")	G0278
9.	Shoulder Bolt	TNP009	22.	Strip - Stainless 48"	G0314
10.	Pin - Handle	G0304	23.	Strip - Stainless 19"	G0315
11.	Scotch Foam	G0323	24.	Bearing	G0306
12.	Bushing - Handle	G0303	25.	Left Brace	G0228
13.	Baseboard	G0211	26.	Right Brace	G0229

Parts Diagram-- Main Assembly



Item No.	Description	Part Number	Item No.	Description	Part Number
1.	Slide Block	N/A	25.	Screw Adjustment	G0156
2.	Insert - Top Plate	G0167	26.	Block Spring	G0155
3.	Insert Top	G0166	27.	Washer (5/8")	G0153
4.	Insert Bottom	G0165	28.	Soc. Hd. Cap Screw (5/8")	G0224
5.	Set Screw #8 (32 x 1/4" Long)	G0247	29.	Dual Compression Spring	G0152
6.	Spring Pin (1/16 x 5/16" Long)	G0184	30.	Guard	G0157
7.	Spacer	G0160	31.	Button Hd. Screw	G0180
8.	Latch	G0161	32.	Button Hd. Cap Screw	G0174
9.	Shim		33.	Set Screw	G0185
10.	Shoulder Screw	G0176	34.	Handle Grip	G0179
11.	Extension Spring	G0159	35.	Handle	G0178
12.	Lever Assembly	G0208	36.	Button Hd. Screw	G0213
13.	Linkage	G0163	37.	Set Screw	G0148
14.	Retaining Ring	4001	38.	Spring Pin	G0182
15.	Eccentric	G0254	39.	Roll Pin	G0183
16.	Button Hd. Screw #10 (24 x 1 3/8" Long)	G0285	40.	Grooved Pin	G0189
17.	Knurled Knob	4242	41.	Utility Blade (100 per Box)	BLD1992
18.	Actuator Arm		42.	Glass Cartridge	G0191
19.	Shoulder Screw	4158	43.	Glass Wheel (10 per Box)	G0237
20.	Steel Plate		44.	Plexi Cartridge	G0261
21.	Blade Holder - Bottom Plate	G0151	45.	Plexi Blade (10 per Pack)	G0235
22.	Blade Holder - Top Plate	G0150	46.	Plexi Holder Screw	G0251
23.	Lock Pin	G0147	47.	Shoulder Screw	G0283
24.	Soc. Hd. Screw	G0175	48.	Lock Nut	G0284

Parts Diagram- Head Assembly