

CH ADVANTAGE G60™

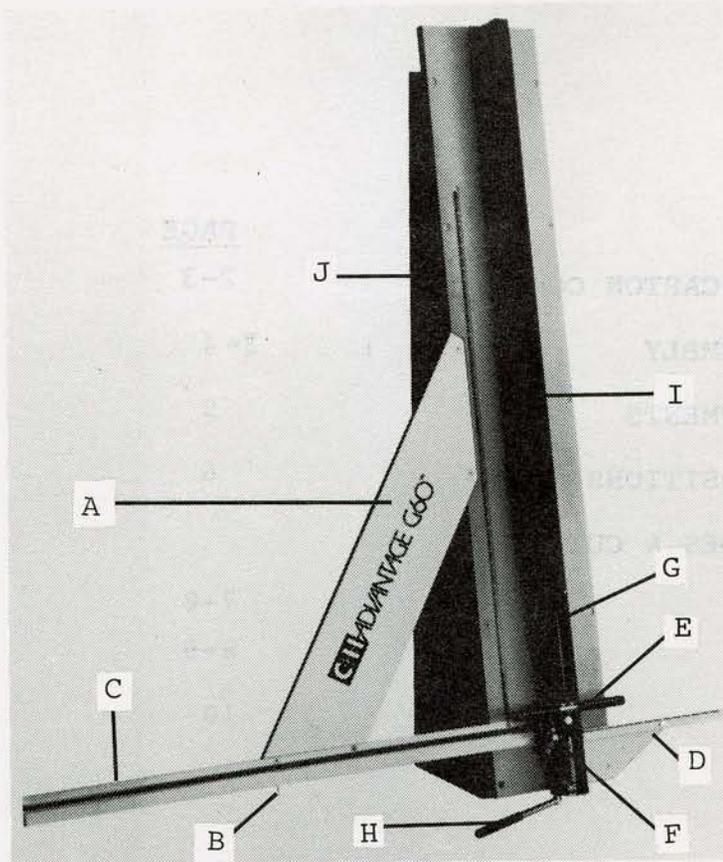
Matboard, Glass & Plastic

Cutter

Operating Manual

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- A. Left Material Support: Provides a sturdy support for the material rest.
- B. Micro Adjustment Screw: For fine squaring adjustments.
- C. Left Material Rest: Incorporates adjustable steel insert.
- D. Right Material Rest & Support: Provides a sturdy support for the material rest.
- E. Slide Block Assembly: Designed with self lubricating, adjustable bearings.
- F. Blade Holder: Holds utility blade and glass or plastic cartridge.
- G. V-Bar: Provides a stable track for head assembly.
- H. Clamping Handle: Activates clamping bar.
- I. Clamping Bar: Holds all thicknesses of board securely over its entire length.
- J. Mounting Braces: Mount cutter to wall or table

Congratulations on your purchase of a new C+H/Advantage G-60 matboard, glass and plastic cutter. You have purchased one of the finest pieces of equipment available to the professional picture framer.

Please inspect the carton and contents for damage. It's important you read the entire manual carefully before mounting and assembling the cutter.

Specifications

Matboard, Glass & Plastic Capacity	<u>G-60</u> 60"
Vertical height required	71"
Horizontal space required	66"
Weight	84 lbs.

Carton Contents

Before mounting the cutter, check the carton to verify that all parts listed below have been included.

Besides the partially assembled cutter, the shipping carton should contain:

- One left material rest with insert
- One left material rest support
- One right material rest and support
- One left side mounting brace
- One right side mounting brace

There will also be a bag containing the following items:

- 17 1/4" Flat Washers
- 17 1/4-20 Nuts
- 13 Screws, 1/4-20x 1 1/2" Flat Head Phillips
- 2 Screws 1/4-20x 1/2" Flat Head Phillips
- 1 Screw 1/4-20x1 1/4" Flat Head Phillips
- 1 Screw 1/4-20x2 1/4" Flat Head Phillips
- 1 Plastic Cutting Cartridge
- 5 Utility Blades
- 3 Allen Wrenches - 5/64", 1/8" and 3/16"

Mounting & Assembly

The cutter may be wall or table mounted, but a wall will almost always provide a more stable mounting surface, so therefore a wall mount is recommended.

If the intended mounting surface is drywall, we recommend that one of the mounting braces be secured directly to a wall stud.

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Wall Mount

Fasten the left and right braces so that the bottom edge of the brace is approximately 30" from the floor depending on your own height. The mounting holes for the left and right braces should be 10 3/4" apart.

Table Mount

Mount the left and right braces so that the forward mounting holes are 3/4" back from the front edge of the table. The mounting holes for the left and right braces should be 10 3/4" apart.

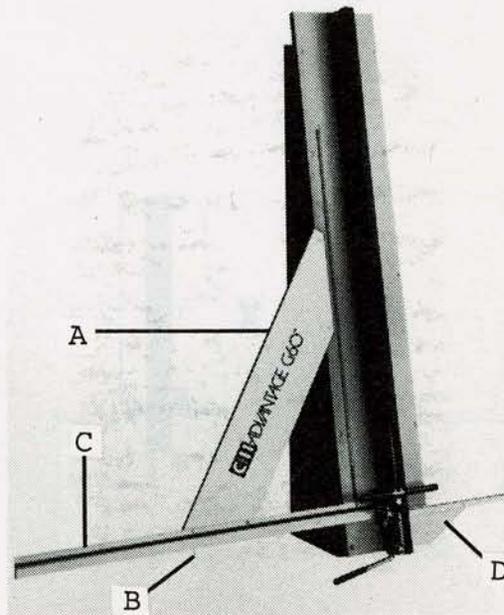
Secure the cutter to the braces with the 1 1/2" Phillips head screws, nuts and flat washers excluding the 3 holes designated for the left and right material rest supports. Do not completely tighten any screws until assembly and adjustments are complete.

Fasten left material rest support (A) to the baseboard using 1 1/2" Phillips head screws, flatwashers and nuts.

Remove the adjustment screw and lock nut (B) taped to the left material rest and screw it in to the tapped hole in the underside of the rest at approximately 29".

Install left material rest (C) using 1/2" and 1 1/2" phillips screws, nuts and washers.

Install right material rest and support (D) using 2 1/4", 1 1/2" and 1 1/4" phillips head screws, nuts and flat washers.



Squaring Adjustments

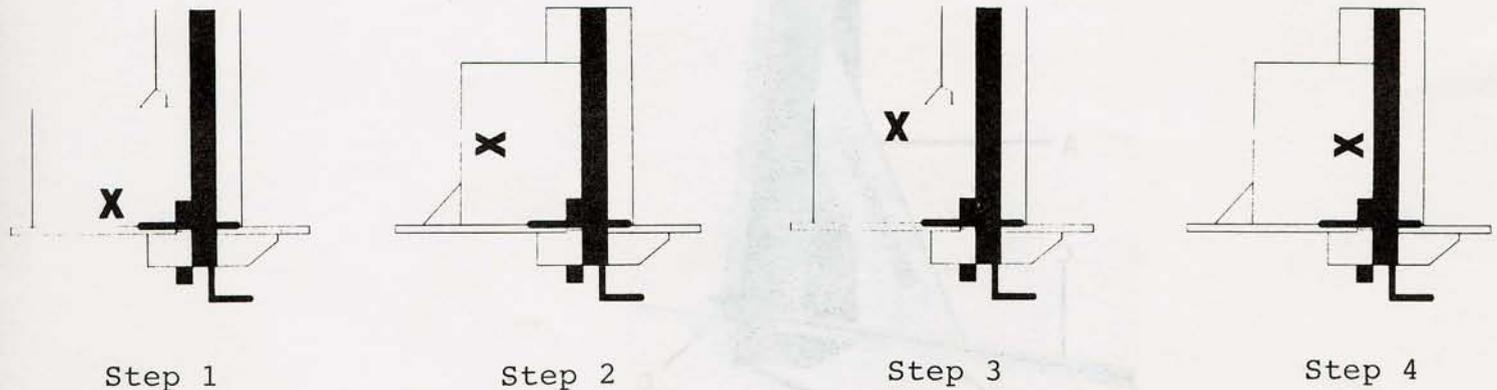
Place a large carpenters square on the left material rest and slide it over to the clamping bar which should be in the clamped position. Using the insert adjustment screw, adjust the material rest insert until the square agrees with the clamping bar. If the cutter will not square using the adjustment screw, you may need to raise or lower the entire material rest.

Once the left rest is square, release the clamping bar and slide the square over to the right material rest. Adjust the right rest so that it lies on the same plane as the left.

At this time, you may tighten all screws and bolts.

If you prefer, perfect squareness may be achieved without a carpenters square by using the following procedure:

- Step 1: Place a full sheet of matboard on the left material rest mark an "X" on the bottom edge of the board. Clamp it in place, and trim approximately 1/2"
- Step 2: Turn the board clockwise and trim again.
- Step 3: Turn the board clockwise and trim one more time.
- Step 4: Turn the board one more time so that the side marked with the "X" is up against the clamping bar. The space between the bar and the board is the distance your cutter is out of square magnified 3X. Adjust the squaring arm to close 1/3 of this space. i.e. If space is 3/8", adjust the squaring arm to show only 1/4" of space. Check for squareness by repeating the above procedure.

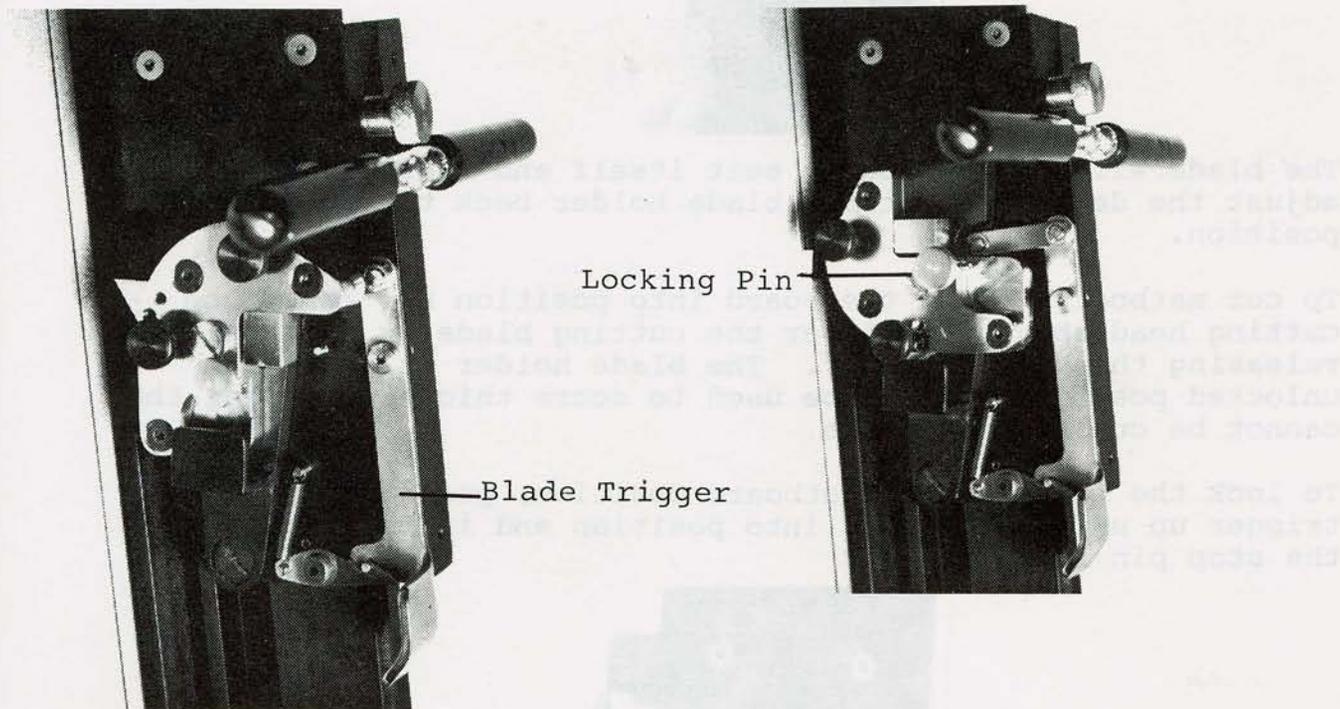


BLADE HOLDER POSITIONS

The blade holder is designed to pivot from matboard to glass/plastic. The holder should only be pivoted when it is in the RETRACTED position. To retract the blade holder, rest the cutting head on the bottom stop and push the blade trigger toward the baseboard. You may then pull the locking pin, pivot the blade holder to the desired function and push the pin in until it is firmly seated.

Matboard Position

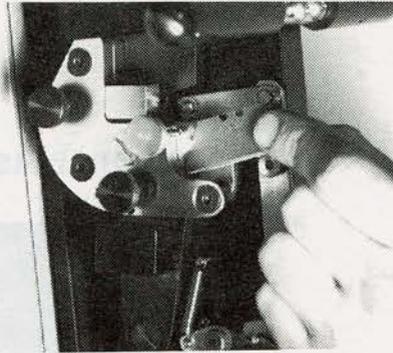
Glass/Plastic Position



INSERTING BLADES & CUTTING

Matboard

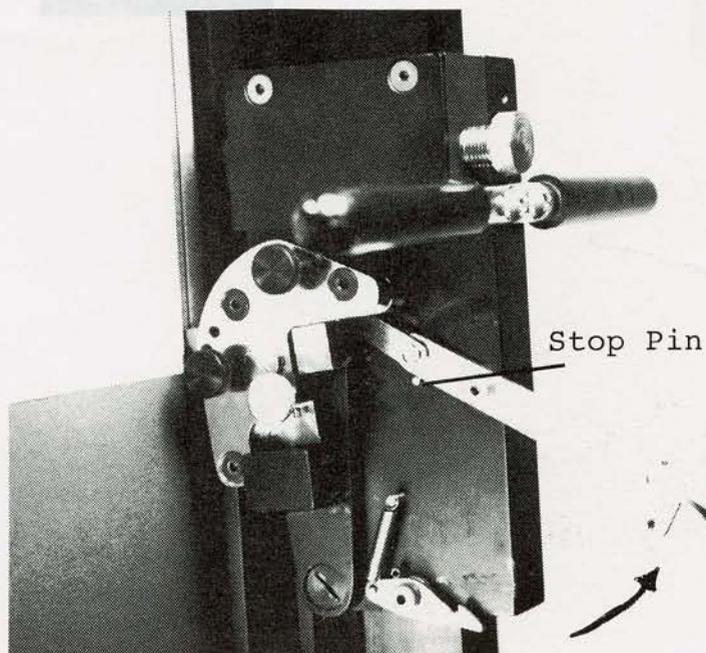
The blade holder utilizes a Stanley 1992 blade (or equivalent) for matboard cutting. Although we recommend the Heavy Duty 1992 type blade, the holder will also accept the 1991 Standard Utility Blade. Pivot the blade holder to glass scoring position. Install the blade by dropping it into the blade slot and tightening the knurled screw.



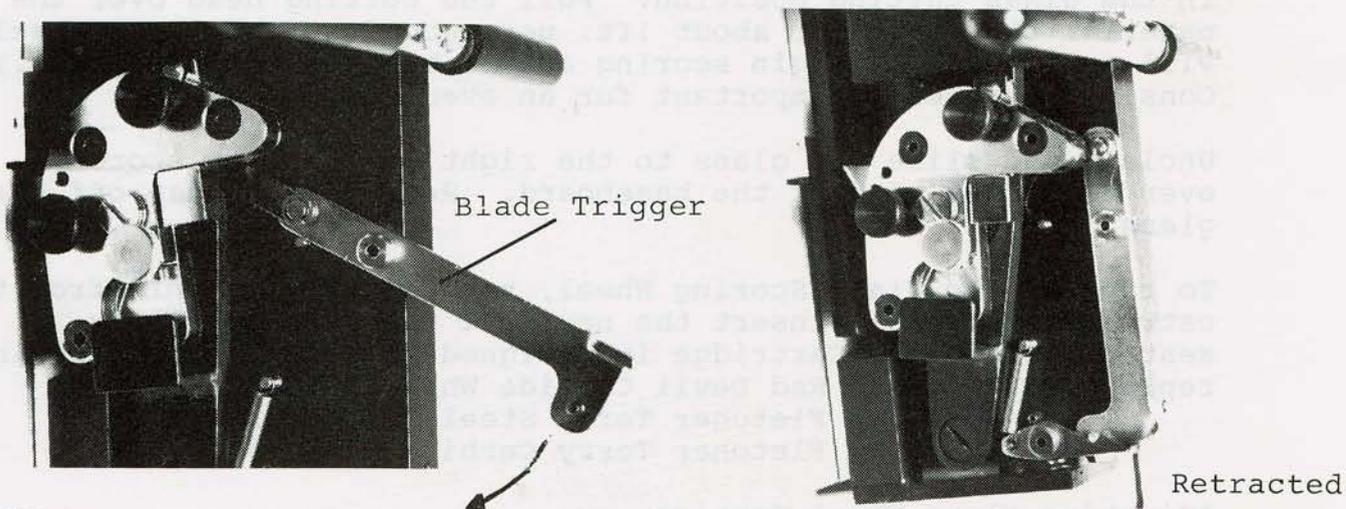
The blade will automatically seat itself and there is no need to adjust the depth. Pivot the blade holder back to the matboard position.

To cut matboard, clamp the board into position and raise the cutting head above it. Lower the cutting blade by depressing and releasing the blade trigger. The blade holder is now in an unlocked position and may be used to score thicker material that cannot be cut in one stroke.

To lock the blade in the matboard position, push the blade trigger up until it clicks into position and is resting against the stop pin in the block.



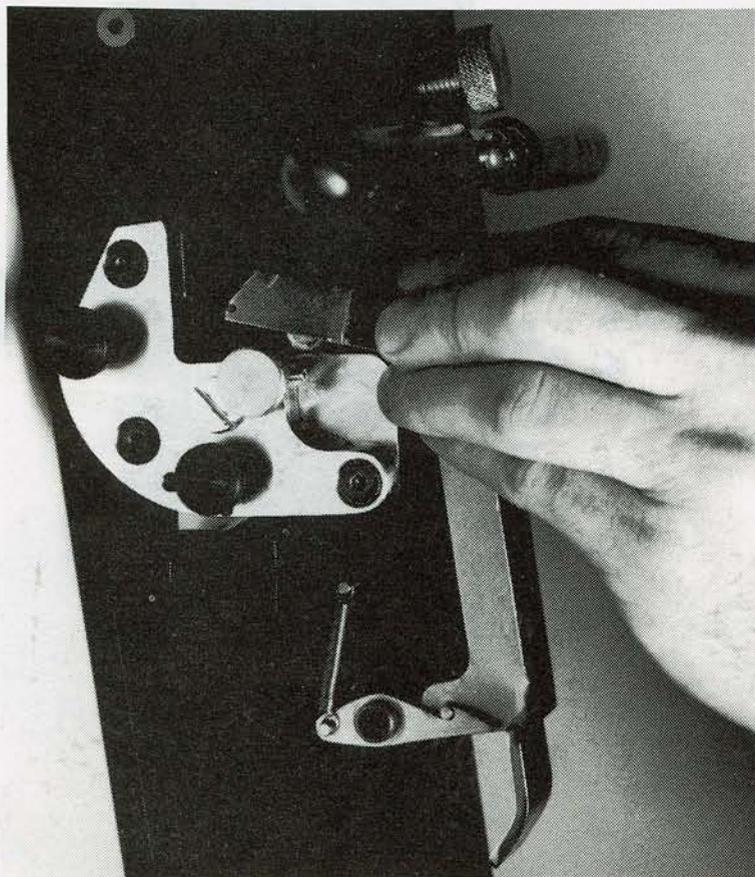
Once the cutting stroke is complete, and the head assembly is resting on the bottom stop, push the blade trigger down and toward the cutting head to retract the blade.



Glass

Note: Gloves and safety glasses should be worn when working with glass.

To install the glass cartridge, pivot the blade holder to the glass position. Insert the cutting tool until it comes to a stop in the blade holder, and tighten the knurled screw.



Clamp the glass in place, and raise the cutting head above it. Lower the glass tool by depressing and releasing the blade trigger. Note: The blade holder is not designed to "lock down" in the glass cutting position. Pull the cutting head over the material at a speed of about 1ft. per second. (The glass wheel will automatically begin scoring at the top edge of the glass.) Consistent speed is important for an even score.

Unclamp and slide the glass to the right so that the score is over the right edge of the baseboard. Reclamp and snap off the glass.

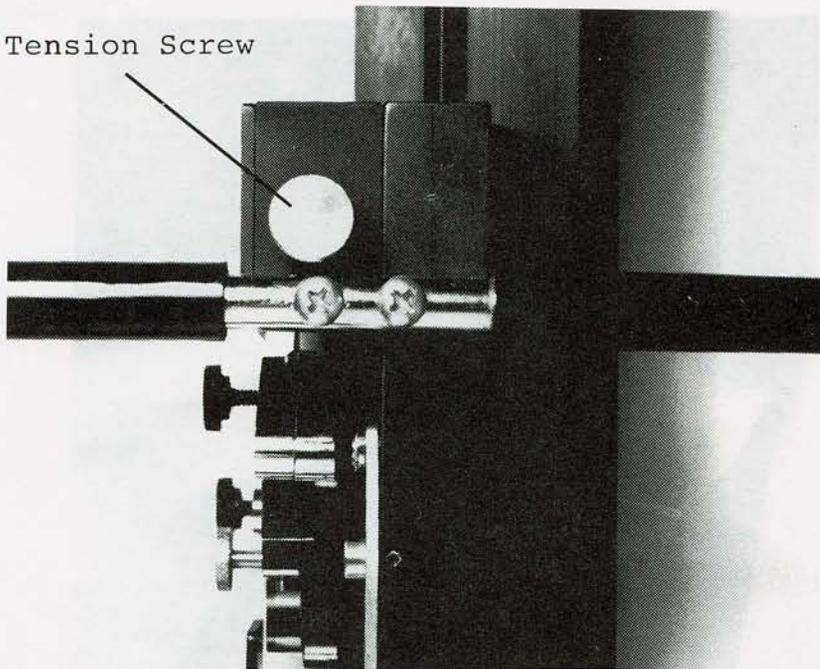
To replace the Glass Scoring Wheel, remove the worn unit from the cartridge and simply insert the new unit until it is firmly seated. The Glass Cartridge is designed to accept the following replacement units: Red Devil Carbide Wheel - #1107EB
Fletcher Terry Steel Wheel #02-120
Fletcher Terry Carbide Wheel #03-126

Adjusting Glass Wheel Tension

If the initial score was too light, turn the glass tension screw clockwise to increase the pressure of the wheel on the glass.

If the score was too deep turn the tension screw counter clockwise.

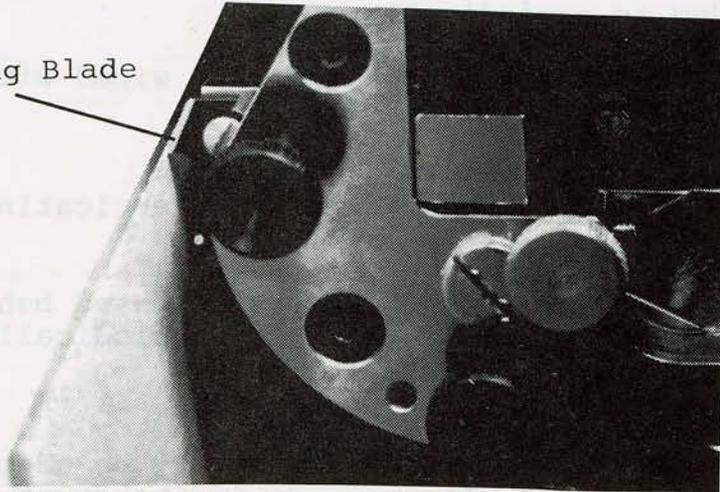
Glass Tension Screw



Plastic

Insert the plastic cutting tool in the same manner as the glass tool, as described previously. The point of the tool should be facing down. Tighten the knurled screw. Clamp the plastic in place and raise the cutting head above it. Depress and release the blade trigger so that the point of the blade rests on the top edge of the material.

Plastic Scoring Blade



Applying even pressure on both sides of the cutting handle, draw the blade down over the material. Score the plastic several times and slide the scored line to the right edge of the baseboard, reclamp the material and snap it off.

To replace the plastic scoring blade, remove the cartridge, unscrew the old blade and install a new blade. The cartridge is designed to accept: Fletcher Terry #05712.

Maintenance

Cleaning

The left material rest insert will pivot up to allow you to brush away any glass or paper dust that may accumulate. Any other area of the cutter that may accumulate paper dust or glass chips should be attended to periodically.

The V-Bar Guide for the cutting head may be wiped with a soft cloth and solvent if it becomes soiled.

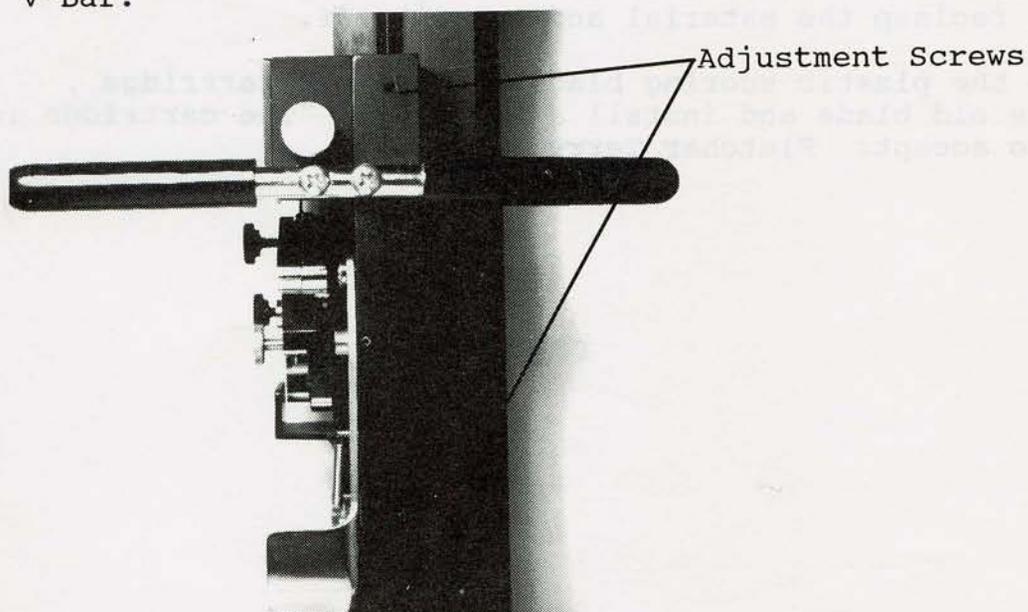
Lubrication

The slide block assembly incorporates self lubricating bearings and will need no further lubrication.

The moving parts of the clamping linkage (located behind the cutter baseboard) should be lightly oiled periodically for smooth operation.

Adjustments

The bearings in the cutting head assembly may be adjusted if necessary by turning the 2 allen screws in the front face of the slide block. Begin by tightening the upper or lower allen screw while sliding the cutting head along the entire length of the V-Bar.



As soon as the head begins to bind, loosen the screw slightly and proceed with the other.

TIPS & HINTS

IF

Blade Holder will not lock down

- In mat cutting position:

- In glass/plastic position:

Glass Wheel will not score

Top or bottom edge of glass chipping

Not Clamping Smoothly

THEN

- Locking pin is not fully inserted. Retract the blade holder and push pin in firmly.

- Not intended to lock down in glass/plastic position. See: Blade Holder Positions

- Glass cartridge is not fully inserted or is inserted backwards.

- Locking pin not fully inserted, see blade holder positions.

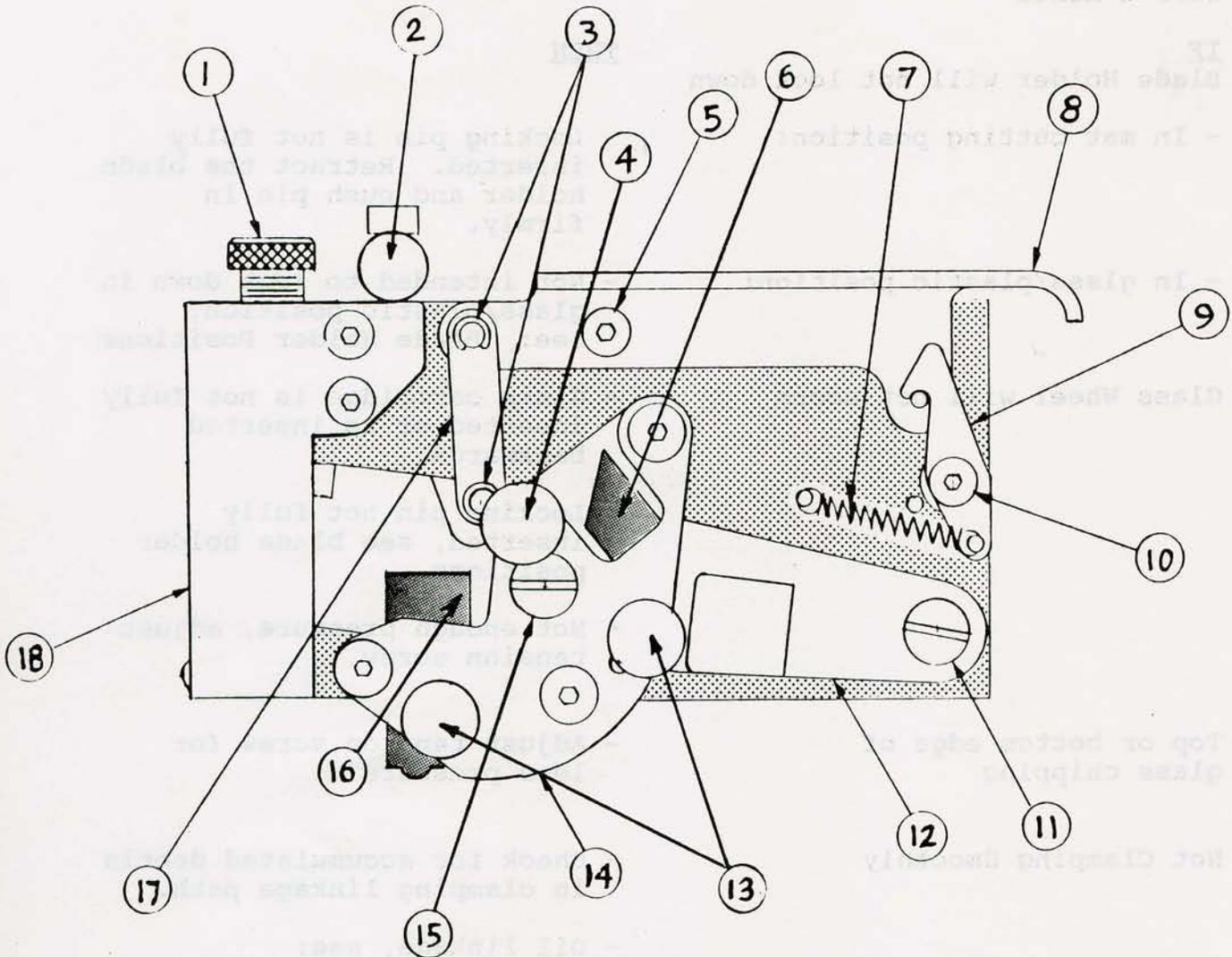
- Not enough pressure, adjust tension screw.

- Adjust tension screw for less pressure

- Check for accumulated debris in clamping linkage path.

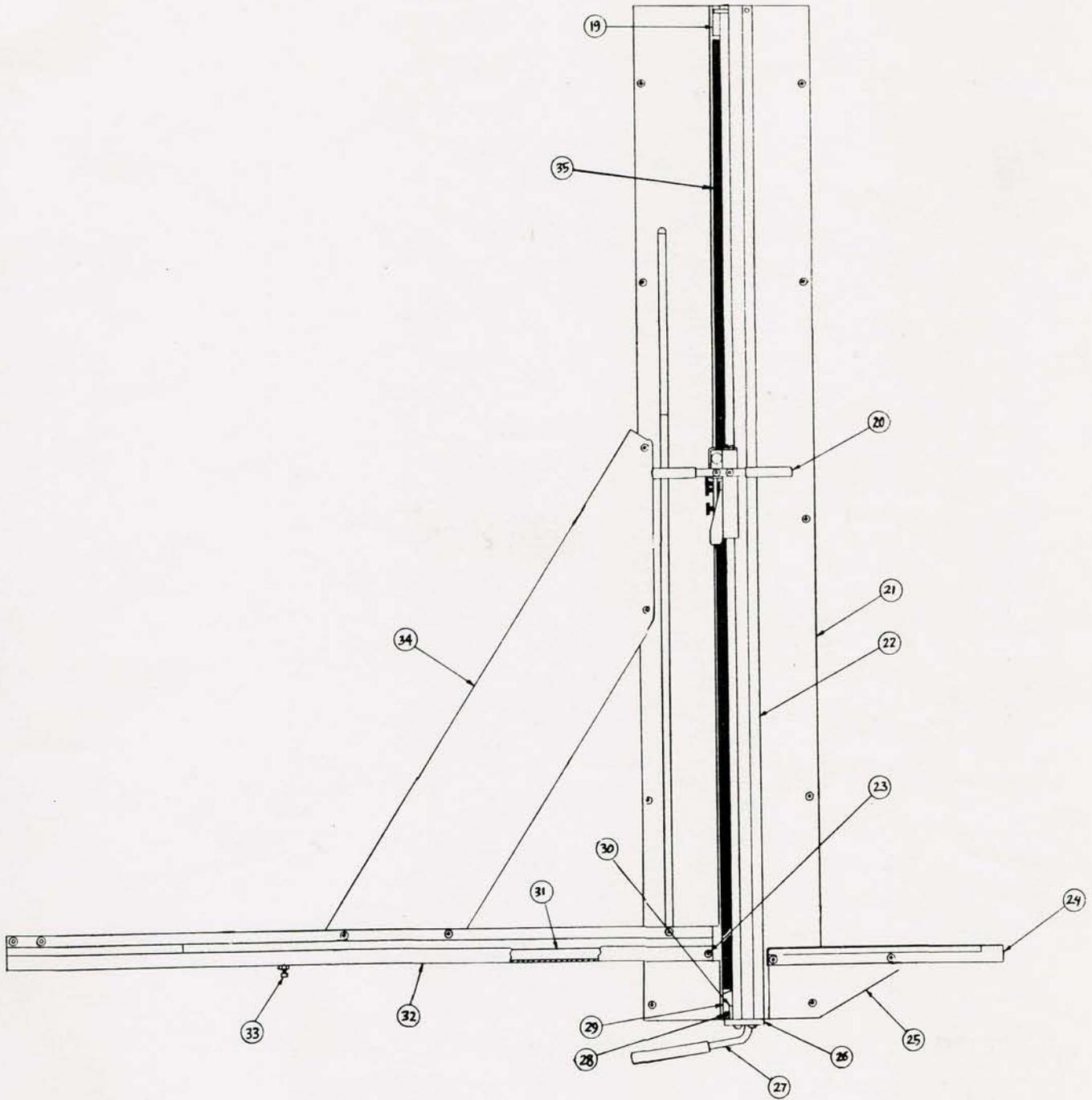
- Oil linkage, see: maintenance

CUTTING HEAD ASSEMBLY



- | | | | | | |
|---|---------------------------|----|------------------|----|------------------------------|
| 1 | PRESSURE ADJUSTMENT SCREW | 7 | EXTENSION SPRING | 13 | KNURLED KNOBS |
| 2 | PULL DOWN HANDLE | 8 | BLADE TRIGGER | 14 | BLADE HOLDER |
| 3 | RETAINING RINGS | 9 | TRIGGER LATCH | 15 | BLADE HOLDER RETAINING SCREW |
| 4 | LOCKING PIN | 10 | SHOULDER SCREW | 16 | GLASS OR PLEXI CARTRIDGE |
| 5 | SHOULDER SCREW | 11 | SHOULDER SCREW | 17 | LINKAGE |
| 6 | UTILITY BLADE | 12 | ACTUATOR ARM | 18 | SPRING GUARD |

G-60 CUTTER DIAGRAM



- | | | |
|------------------------|--------------------------------|---------------------------------------|
| 19 TOP RISER BLOCK | 25 RIGHT MATERIAL REST SUPPORT | 31 ADJUSTABLE INSERT |
| 20 CUTTING HEAD ASSY | 26 BOTTOM STOP | 32 LEFT MATERIAL REST |
| 21 BASEBOARD | 27 CLAMPING HANDLE | 33 INSERT ADJUSTMENT SCREW & LOCK NUT |
| 22 V-BAR | 28 SPRING | 34 LEFT MATERIAL REST SUPPORT |
| 23 1/8" SPRING PIN | 29 LOWER RISER BLOCK | 35 CLAMPING BAR |
| 24 RIGHT MATERIAL REST | 30 RUBBER STOP | |

C+H/ADVANTAGE

WARRANTY

Nielsen & Bainbridge warrants new C+H/ADVANTAGE SERIES cutters, accessories and parts, excluding the cutting head bearings, to be free from defects in material and workmanship for a period of ninety (90) days from the date of purchase by the original user/consumer. THE CUTTING HEAD BEARINGS ARE COVERED BY A LIFETIME WARRANTY. Each cutter, accessory and part will be thoroughly inspected before shipment to ensure conformance to specifications.

If a C+H/ADVANTAGE cutter, accessory or part malfunctions or is inoperable within the warranty period because of a defect in material or workmanship, we will repair, or at our option, replace the defective unit at no cost to the original user or consumer/purchaser.

This warranty excludes and does not cover defects or malfunctions of a cutter, accessories or parts due to repairs by persons not authorized by us; by use of parts or accessories not designed or authorized by us; by mishandling, improper adjustment, modifications or damages.

To obtain repair or replacement under this warranty, contact your Authorized C+H Distributor.

This warranty is in lieu of all other warranties, expressed or implied. Nielsen & Bainbridge expressly disclaims all other warranties, including the warranties of merchantability and fitness for a particular purpose.

The manufacturer neither assumes nor authorizes any representative or other person to assume for it, any other liability in connection with the sale, maintenance, or repair of cutters.

In no event shall Nielsen & Bainbridge be liable for any damages or losses, incidental or consequential, direct or indirect, arising out of the use of this product.