

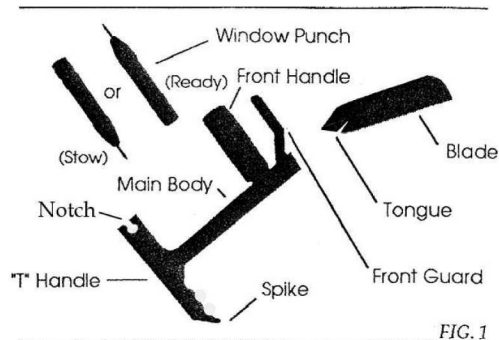


FIG. 1

CAUTION

Always observe SAFETY RULES and wear full turn out gear, including

- EYE PROTECTION (safety glasses and shield)
 - HAND PROTECTION (leather or suitable gloves)
- Keep mouth closed during operation.
Cover victim(s) with blanket or suitable material.
- Follow Department Protocol

Assembly Instructions:

Insert tongue of blade into center of the front main body of the tool. (See FIG.1) **Between** Yellow fixed block and red floating block.

NOTE: Only loosen screw one full turn; this is enough to get blade in but will not allow block to fall out and be lost. Holding the blade in position, tighten Allen screw securely (Allen wrench provided), in order to hold blade in tool body.

Insert window punch in either the “point out” ready position, or the “blunt end out” stow position. **NOTE:** This punch can be removed and used separately by another rescuer.

INSTRUCTIONS FOR USE

Step by Step Guidelines

STEP 1

Remove windshield wiper arms at base. Remove rearview mirror from inside windshield, if possible.

When windshield removal is started on the passenger side, the following procedure is recommended: (This is a Guide ONLY)

STEP 2 (with gloved hand)

Hold blade end of tool in right hand. With left hand, grasp front (black) handle. Strike glass with spike (red tip)(FIG.1) as you would strike a nail with a hammer.



Apply enough force to penetrate glass at top center and bottom center of windshield to make purchase point or opening for blade.

STEP 3 (still holding black handle w/left hand)
Turn the **Glas-Master** around and hold the lower rear “T” handle in your right hand. (You may wish to grip tool differently.)



Insert the blade into upper center opening or purchase point and, keeping tool body parallel with window and roof; make full sawing strokes along the roof line of the vehicle to the

outer corner of the windshield. (This photo shows cutting along dashboard. This works best with hand on top, as shown, and tool parallel with top of dash)

NOTE: Even though you use a sawing motion; all cutting is done only on the PULL stroke!

STEP 4



With sawing strokes, turn the corner and proceed down the side of the windshield.

STEP 5



Remove **Glas-Master** from the windshield. Insert blade in lower center purchase point.

Saw to lower corner of windshield.

STEP 6

Move to driver's side of windshield
Repeat steps 3,4 and 5.

STEP 7



Be sure that windshield does not fall inside vehicle

With the assistance of a second rescuer, **CAREFULLY** remove glass. Remove windshield to a

safe place – if possible, under the wrecked vehicle, or follow you department's protocol.

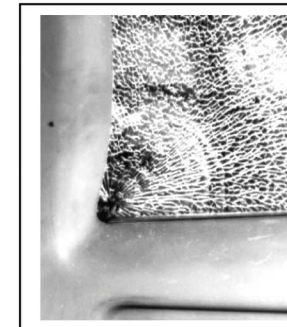
For TEMPERED or TOUGHENED Glass Removal
STEP 8



With the top of the “T” handle up against door panel and front guard against window post, place point of window punch

in the corner of the side glass. Push point of punch into window at right angle.

STEP 9



When pushed approximately ¾” (inch), spring will unload causing the point of punch to penetrate the glass.

The glass will crumble into small pieces. If front windshield has been removed, reach through the opening and push out glass. Follow you departmental protocol.
(Refer to One and Two man Operation on opposite side)

Step 8 & 9 Alternatives



Using Notch on top of “T” handle

Place notch (Fig.1) over edge of partially rolled down and covered window; twist. Glass will crumble; most falling into door frame.

REMINDER: Wear *EYE* and *HAND* protection
Keep Mouth CLOSED

You have selected a tool that will be an important part of your department's life-saving team. The *Glas-Master* is designed to assist you in saving lives and reducing injury by quickly and safely removing all glass from a vehicle in LESS THAN ONE MINUTE. (Depending on Operator and/or Conditions)

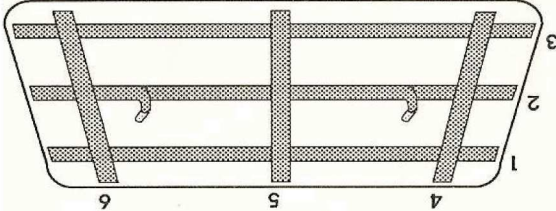
Thorough training in the use of this tool **MUST** be a part of your department's protocol for good extrication procedures. It is imperative that safety standards be maintained to avoid injury to the operator of the *Glas-Master* and that the operators wear full turnout gear during the use of this tool. You will become proficient in the use of the *Glas-Master* only through practice. It is recommended that your department arrange practice sessions on vehicles from a salvage yard in order to gain the skill level needed to save lives!

Helpful Hints

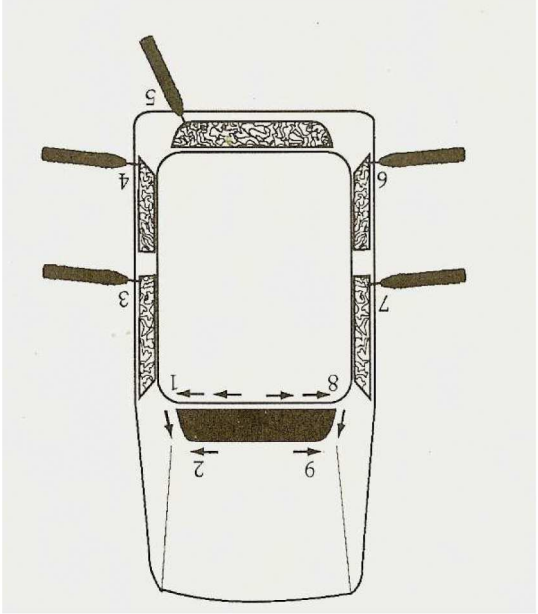
Your department may wish to keep the following items on hand in order to aid in the safe removal of glass:

1. Duct (Furnace) Tape

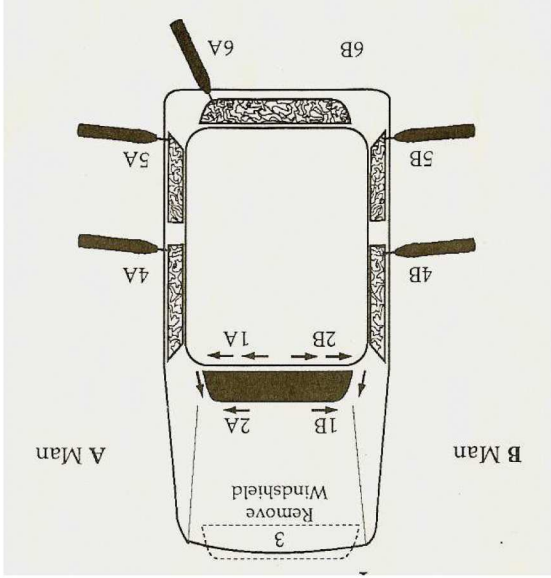
Apply it to the window in strips before beginning removal operation. Leave tabs for easy gripping of tape and quick removal of glass. (See Illustration)



One Man Operation



Two Man Operation (TWO Tools)



ALTERNATIVE STABILIZING METHOD



Place notch (Fig. 1) over valve stem and twist As tire deflates, vehicle becomes more stable.

CARE and MAINTENANCE of GLAS-MASTER

- Inspect the tool after each use.
- If blade is loose, tighten securely (Allen Wrench provided.)
- If blade is bent, broken, or if teeth are worn, replace blade.
- Use only blade GMM-B46 (Blade supplied with initial tool purchase)
- Lubricate center punch with light oil if needed.
- Check to make sure punch shaft works freely, and resets after use.
- If center punch jams, tap against hard surface.

GLAS-MASTER LIMITED FIVE YEAR WARRANTY

Warranty Policy

Every tool is thoroughly inspected before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of FIVE YEARS from the date of original purchase. Should any trouble develop during this five year period, return the COMPLETE tool, freight prepaid to Wehr Engineering. If inspection shows the trouble is caused by defective workmanship or material, Wehr Engineering will repair (or at our option, replace) without charge. This Warranty **does not apply** where:

- repairs have been made or attempted by others
- the tool has been abused, misused, or improperly maintained
- alterations have been made to the tool

In no event shall Glas-Master or Wehr Engineering be liable for any indirect, incidental, or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of warranty. Wehr Engineering disclaims liability for any implied warranties, including implied warranties of "merchant ability" and "fitness for a specific purpose" after the term of this warranty. * **Made in the U.S.A.**

