

# Owner's Manual



## Model #R1

Manufactured by:

Rescue 42, Inc.

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## Introduction

Thank you for purchasing The Ripper™. The Ripper™ is designed to cut vehicle laminated glass (LG) windshields and side windows to access trapped or non-compliant subjects and injured or dying patients.

Please read this manual in its entirety before using The Ripper™.

## Safe Operations and Warnings - Read Before Using



**WARNING:** TO REDUCE THE RISK OF INJURY, THE USER MUST READ AND UNDERSTAND THIS OWNER'S MANUAL BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THE WARNINGS AND INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.

Cutting LG generates glass chips and fine dust/powder. Users must wear their agency-specified PPE, which should include protective clothing, gloves, eye and possibly respiratory protection. **LG dust (non-crystalline glass dust or Amorphous Silica Dioxide) is only an irritant dust and is not considered to be hazardous.** While most glass fragments will remain on the outside of the glass pane, some will fall inside. While often not possible, attempt to protect occupants from fragments.

Although the blades do not appear or feel sharp to the touch, please note that the shear blade oscillates like a scissor to cut LG. Do not place your fingers or any parts of your body in or on the blades while the battery is attached to the cordless Impact Driver used to power the tool. **Do not use The Ripper™ for cutting materials other than Laminated Glass (LG); you may damage the tool and will void the warranty.**

See the Impact Driver's owner's manual for safety warnings regarding its safe operation. All impact drivers have owner's manuals posted on the manufacturer's website.

Never use The Ripper™ on the incorrect Impact Driver. Each Ripper™ has the model number of the compatible impact driver engraved on the trailing edge of the interface cone. If you have any questions about compatibility of The Ripper™ with an impact driver, send an email to: [Help@Rescue42.com](mailto:Help@Rescue42.com) or call (888) 42-RESCUE – (888) 427-3728.

# Components

The Ripper™ is made of high-quality engineered copolymer and ultra-high strength, corrosion resistant steels. It is simple to use and designed to allow you to conduct any cleaning and maintenance in the field.

Figures 1 & 2 identify the components.

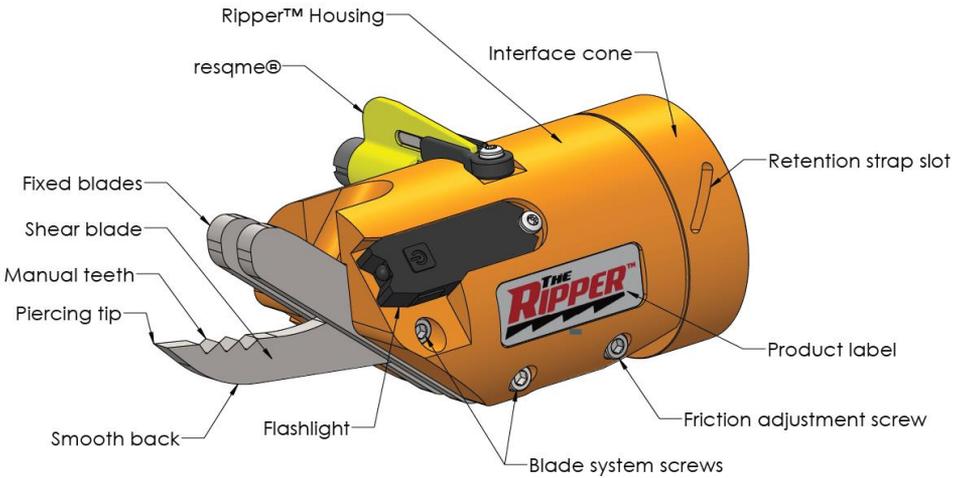


Figure 1: The Ripper™ Overview

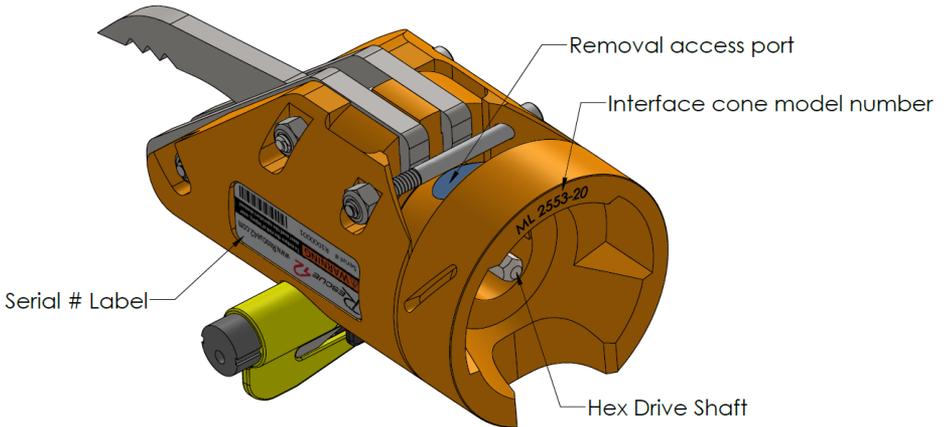


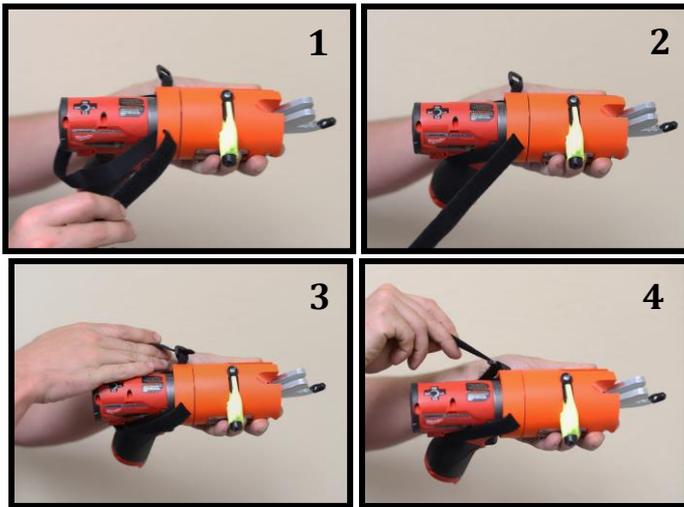
Figure 2: The Ripper™ Overview with Access Port Highlighted



**WARNING:** Always remove the battery pack from the Impact Driver before assembling parts or making adjustments. This should prevent accidental starting that could cause serious injury.

## Connecting The Ripper™ to an Impact Driver

1. Remove the battery from the Impact Driver.
2. Compare the model number of the Impact Driver with the model number engraved on the Ripper™ Interface Cone. They must match. If not, you cannot attach The Ripper™.
3. Ensure that the female ¼" hex socket on the Impact Driver is clean and that the engagement collar slides easily.
4. Rotate the Interface Cone until the removal access port is visible, then move The Ripper's™ retention strap out of the way.
5. Rotate the Interface Cone to align with the Impact Driver's body. The cone is in the right position when the Removal Access Port is pointing toward the top of the Impact Driver.
6. Slide the hex drive shaft into the hex socket of the Impact Driver. If installed correctly, the Impact Driver will lock on to The Ripper™ drive shaft and the Interface Cone will be snug against the front housing of the Impact Driver. Check this by pulling on The Ripper™ Body to test that it is properly connected to the Impact Driver. Not all Impact Drivers are alike. You may need to slide the engagement collar forward while pushing The Ripper™ into place. You can slide it forward by using your fingertip through the Access Hole or with a small screwdriver. Just pull forward on the engagement collar while pushing in on the Ripper™ body. It should lock into place.
7. Move the retaining strap into position, thread the end through the ring rectangular ring, pull until tight and press the hook and loop strap surfaces together. See Figure 3.
8. Install the battery and you are ready to cut laminated glass.



*Figure 3: Connecting The Ripper™ Retaining Strap*

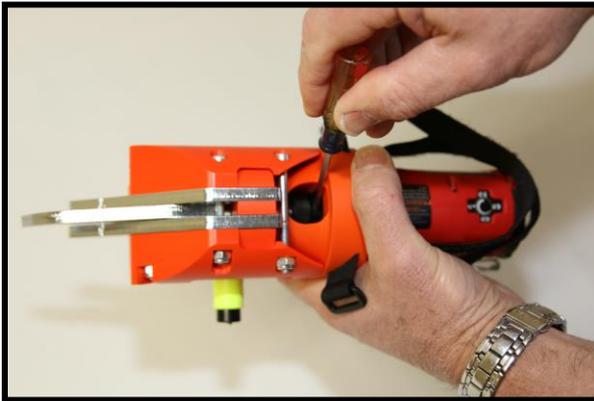
## **Disconnecting from an Impact Driver**

To disconnect The Ripper™ from an impact driver follow these steps:

1. Clean glass dust or fragments off The Ripper™ and Impact Driver.
2. Remove the battery from the Impact Driver.
3. Loosen The Ripper's™ retention strap and move it out of the way.
4. Rotate The Ripper's™ housing on the interface cone until the removal access port is exposed, and the Impact Driver's sliding engagement collar is visible.
5. Using either your finger or the provided flat-bladed screwdriver (Fig. 4 & 5), slide the engagement collar of the impact driver forward (away from the Impact Driver). At the same time pull The Ripper™ off the Impact Driver. Be cautious of the blade tips as The Ripper™ body comes off the Impact Driver; the attachment may release quickly causing it to suddenly separate. Use caution not to strike someone or something with the blade tips.



*Figure 4: Disconnecting by Hand*



*Figure 5: Disconnecting with Tool*

## **Using the resqme® Glass Punch/Seatbelt Cutter**

The Ripper™ features a resqme® tool that can break tempered safety glass, cut seat belts, or cut side curtains and curtain tethers, making The Ripper™ capable of removing any commonly found vehicle side window glass. The resqme® will not break laminated glass.

To remove tempered side window glass with the integrated resqme® tool, turn The Ripper™ until the black tip of the resqme® is pressed against the glass. Push the black head firmly into the bottom corner of the side window until it “snaps”. If the glass shatters you can use The Ripper™ to sweep the window frame free of glass particles and access the interior. If the window doesn’t shatter, it is laminated glass and you must cut it with The Ripper™ blades. You may remove the resqme® from The Ripper™ for breaking glass and cutting seat belts and side curtains and tethers by pulling it firmly away from The Ripper™ body.

## Turning On/Off the LED Light

The Ripper™ is equipped with an integrated high-performance rechargeable LED flashlight. It is operated by pressing the button on the flashlight housing (Fig. 6). With the light turned off press the button to turn on the light. Pressing a second time within short succession will brighten the light setting, pressing once again will shut off the light.



*Figure 6: Flashlight*

## Charging the LED Light

Open the charging port on the side of the flashlight by removing the rubber plug. Connect the Micro-USB end into the light and plug the other end in to a power supply (USB adapter, PC, or other standard USB output port). To fully charge the light when depleted requires approximately 2 hours. A charging indicator light built into the flashlight will illuminate steadily during charging and will go out when fully charged. The light will need to be recharged if output appears to be dim or the light becomes unresponsive (Fig 6).

## Setting Pivot Friction

The Ripper™ is designed to be used right or left-handed. It can be operated with one hand or two. It is capable of cutting at any angle. The Ripper™ can pivot 360 degrees and does not have a travel stop. This enables the operator to turn the tool in any direction or cut glass from any angle. The operator can adjust the friction on the pivot mechanism to their individual liking by tightening or loosening the friction adjustment bolt with the provided 5/32" hex wrench (Fig. 7).



*Figure 7: Pivot Friction*

## **Punching Starter Hole in Glass**

The Ripper™ is designed to use the blade tip to punch through the LG enabling instantaneous cutting. Simply grip the unit firmly by the Impact Driver grip and punch it firmly into the glass surface. Then rotate The Ripper™ to the correct cut angle and pull the trigger in one continuous motion to begin cutting (Fig. 8).



*Figure 8: Punching Starter Hole*



*Figure 9: Cutting Laminated Glass*

## **Cutting Laminated Glass Using Power**

Pivot the Impact Driver into a comfortable operating position. Place the lower oscillating shear blade through the starter hole or existing cut line, and the upper fixed cutting blades on top of the LG pane. Apply power to the impact driver and cut (Fig. 9). The Ripper™ is designed to operate at any RPM and can operate in forward or reverse Impact Driver modes. For optimal cutting speeds, if applicable, set the Impact Driver speed setting to the highest RPM output. For best results be sure the lower fixed (non-oscillating) blades and the angled Ripper™ body housing are in constant contact with the glass surface. Allow the cutter to do the work by applying modest forward pressure to cause The Ripper™ to cut the glass. Excessive pressure actually slows the cutting process rather than speeding it up.

## **Cutting Laminated Glass Manually (No Power)**

In the unlikely event that the Impact Driver batteries are dead or missing, or the Impact Driver fails, you can manually use The Ripper's™ cutting blades to cut LG by using a “can-opening” motion. To cut manually push the cutting blade as deep against the glass as possible, and then lever The Ripper™ upwards, rotating the tool against the cut and allowing The Ripper's™ manual cutting teeth to tear through the glass (just like manually opening a can). Repeat this process to continue the cut. It will take longer to cut the pane, but the manual cutting ability of our blade system and cone interface make a perfect backup system for your operations.

## Procedure for Cutting Side Windows

1. Try the door handle to check if the door is locked or jammed.
2. Turn The Ripper™ sideways and push the black tip of the resqme® tool against the window until it triggers the punch. If the window shatters, it is tempered glass and you're in. If not, it is made of laminated glass and will need to be cut.
3. If the door is locked and the occupant is unconscious or can't/won't open the door, punch The Ripper™ into the glass and cut an arch over the interior latch, push the flap in with your hand or The Ripper™ and reach in to unlock or open the door. **Only do this if it safe to reach into the vehicle. (Fig. 10)**
4. If the flap method fails or you need the whole window removed, punch The Ripper™ into the lower corner of the glass and cut all the way across the base of the window. Use the flap hole to pull the window out or pry the center of the cut glass out with The Ripper™, grasp the center and pull the window out. (Fig. 11)
5. If needed, remove the resqme® tool and use the cutter to cut seatbelts or side curtains/tethers.

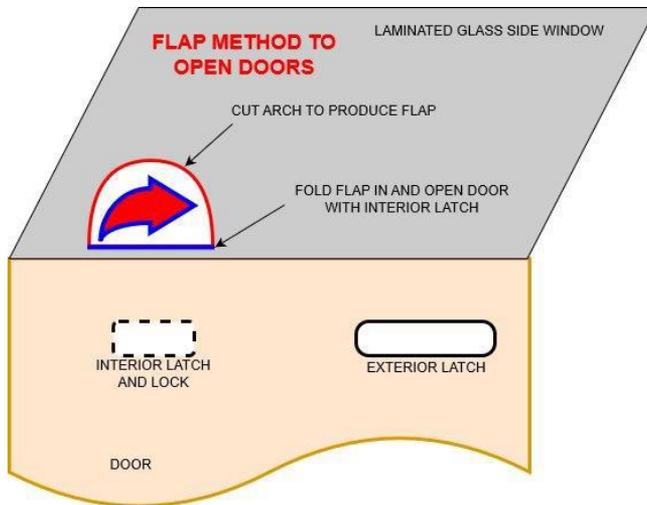


Figure 10: Flap Method

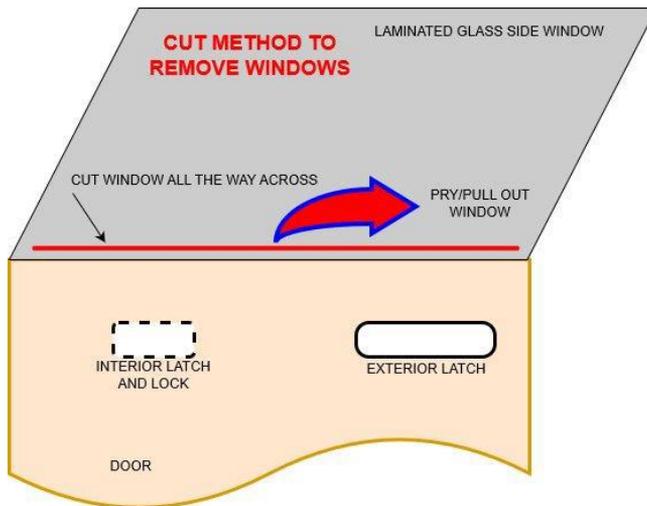


Figure 11: Cut to Remove Window

## Replacing Cutting Blades

The cutting blades are designed to cut many windows, but they do dull over time. Replacement blades are available through your dealer and can be easily swapped out by the owner. Follow the installation instructions that come with the replacement blades to reassemble.



**WARNING:** Always remove the battery pack from the Impact Driver before assembling parts or making adjustments. This should prevent accidental starting that could cause serious injury.

## Ordering Parts

The Ripper™ is durable and will require little maintenance other than post use cleaning. Parts are available from Rescue 42, through our distributor network. If you need help in finding a distributor please go to our website <http://rescue42.com/dealers/> to find one near you.

## Technical Assistance

Rescue 42 provides support by email and phone. Please write to [Help@Rescue42.com](mailto:Help@Rescue42.com) or call tech support at (888) 42-RESCUE (8am to 5pm M-F (USA Pacific Time Zone), except holidays).

# Three Year Limited Warranty

## DO NOT RETURN THIS ITEM TO THE PLACE OF PURCHASE

Every Rescue 42, Inc. Ripper™ laminated glass cutter is warranted to the original purchaser only, to be free from defects in material and workmanship subject to certain exceptions:

- The cutting blades
- The carrying bag
- The integrated LED light's battery
- The resqme®
- Any Cordless Impact Drivers, Batteries and Chargers sold with or without The Ripper™. See respective manufacturer's warranty for claim instructions.

Rescue 42 will repair or replace any part on a Ripper™ which, after examination, is determined to be defective in material or workmanship for a period of three (3) years after the date of purchase. Return of The Ripper™ may be required. Video or photos may also be used by Rescue 42 (at its sole option) to determine qualification for warranty coverage. If return of The Ripper™ is required, shipping costs shall be the responsibility of the shipping party. The customer shall pay for shipment to Rescue 42, and if The Ripper™ is determined to be qualified by Rescue 42 for warranty repair or replacement, return shipment by ground transit shall be paid for by Rescue 42.

The warranty does not apply to damage Rescue 42 determines to be from repairs made or attempted by anyone other than Rescue 42, or an authorized Rescue 42 representative. Damage or degradation from normal wear and tear, misuse or abuse (such as jamming the moving cutting blades into metal or non-laminated glass objects), alterations, accidents, lack of maintenance, lack of proper storage, or use with an incompatible Impact Driver shall not be covered by warranty.

RESCUE 42 SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EVERY EFFORT HAS BEEN MADE TO ENSURE THE COMPLETE ACCURACY OF THE CONTENTS OF THE OWNERS MANUAL. NO LIABILITY ARISING FROM ITS USE, HOWEVER, CAN BE ACCEPTED BY RESCUE 42, INC, WHO RESERVES THE RIGHT, WITHOUT PRIOR NOTICE, TO ALTER THE SPECIFICATIONS, CONSTRUCTION, OR CONTENT OF ITS EQUIPMENT AT RESCUE 42'S OWN DISCRETION.

To claim a warranty please send an email containing the following information to [RipperWarranty@Rescue42.com](mailto:RipperWarranty@Rescue42.com). You must provide:

1. The serial number found on a label of The Ripper's™ main body.
2. An explanation of the problem; photos or short videos are optional, but helpful.
3. Proof of purchase (optional).
4. Your name.
5. Your full mailing address, including zip code (must be able to receive packages).
6. Your email address.
7. Your daytime phone number.

Warranty claims will be fully processed within five (5) business days; if Rescue 42 deems that the return of your Ripper™ is required to fix the problem, it will issue a Returned Merchandise Authorization (RMA) number to you via email or by phone call. Before sending The Ripper™ in for warranty service, you **MUST** obtain an RMA number from Rescue 42. This number must be found both on the exterior and packed within the shipping container, along with the information requested above. Any product sent to Rescue 42 without an RMA number shall not be the responsibility of Rescue 42 if lost. The return of any repaired or replaced product shall be conveyed by ground transit.

**Rescue 42, Inc.**

**370 Ryan Ave. #120, Chico, CA 95973 Ph. (888) 42-RESCUE**

[RipperWarranty@Rescue42.com](mailto:RipperWarranty@Rescue42.com)