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› VIM V230 U-Joint Snap Ring Plier and Push Pin Removal Plier Instruction Manual

## VIM V230

# VIM V230 U-Joint Snap Ring Plier and Push Pin Removal Plier Instruction Manual

Model: V230

## 1. INTRODUCTION AND OVERVIEW

Thank you for choosing the VIM V230 U-Joint Snap Ring Plier and Push Pin Removal Plier. This versatile hand tool is designed for efficient removal and installation of U-joint snap rings and various automotive push pins. Engineered for durability and ease of use, the V230 is an essential addition to any mechanic's or DIY enthusiast's toolkit. Please read this manual thoroughly before using the tool to ensure safe and effective operation.

## 2. SAFETY INFORMATION

Always prioritize safety when using hand tools. Failure to follow these safety guidelines may result in injury or damage to the tool or workpiece.

- **Wear Eye Protection:** Always wear ANSI-approved safety glasses or goggles to protect your eyes from flying debris.
- **Inspect Tool Before Use:** Before each use, check the pliers for any signs of damage, wear, or deformation. Do not use a damaged tool.
- **Use the Correct Tool for the Job:** Ensure the V230 pliers are appropriate for the specific snap ring or push pin you are working with.
- **Maintain a Secure Grip:** Always hold the tool firmly to prevent slipping, which could lead to injury.
- **Avoid Excessive Force:** Do not apply excessive force that could bend or break the tool. If a component is difficult to remove, re-evaluate the procedure or seek professional assistance.
- **Keep Work Area Clean:** Ensure your work area is well-lit and free of clutter to prevent accidents.
- **Store Properly:** Store the tool in a dry, safe place away from children and unauthorized users.

## 3. PRODUCT FEATURES

The VIM V230 is designed for dual functionality, offering precision and durability for automotive tasks.

- **Dual Functionality:** Specifically designed for both U-joint snap ring removal/installation and automotive push pin extraction.
- **Durable Construction:** Made from aluminum for strength and longevity.
- **Ergonomic Grip:** Features an ergonomic handle design for comfortable and secure handling during use.



Figure 3.1: The VIM V230 U-Joint Snap Ring Plier and Push Pin Removal Plier. This image shows the tool with its red ergonomic handles and black metal body, featuring the specialized jaws for snap ring and push pin operations.

## 4. SETUP AND PREPARATION

The VIM V230 pliers are ready for immediate use. No assembly is required. Before starting any task:

1. **Read Safety Information:** Review Section 2 of this manual.
2. **Inspect the Tool:** Ensure the pliers are clean and free from damage. The jaws should operate smoothly without excessive play.
3. **Identify Target Component:** Confirm the type and size of the snap ring or push pin you intend to remove or install to ensure compatibility with the tool.

## 5. OPERATING INSTRUCTIONS

The VIM V230 offers dual functionality. Follow the appropriate instructions for your specific task.

### 5.1. U-Joint Snap Ring Removal/Installation

These pliers are designed to compress or expand snap rings found in U-joints, allowing for their removal or installation.

1. **Position the Jaws:** Align the tips of the pliers with the holes or grooves on the snap ring. For internal snap rings, the pliers will expand the ring; for external snap rings, they will compress it.
2. **Apply Pressure:** Gently squeeze or open the handles to manipulate the snap ring. Ensure the tips are securely seated in the snap ring's holes to prevent slipping.
3. **Remove/Install:** Once the snap ring is sufficiently compressed or expanded, carefully remove it from its groove or guide it into place.
4. **Verify Seating:** After installation, ensure the snap ring is fully seated in its groove.

**Caution:** Snap rings can spring out unexpectedly. Always maintain a firm grip and wear eye protection.

### 5.2. Push Pin Removal

The specialized jaws of the V230 can also be used to effectively remove various automotive push pins without damaging the surrounding trim or the pin itself.

1. **Locate the Push Pin:** Identify the push pin you need to remove.
2. **Position the Pliers:** Slide the angled jaws of the pliers under the head of the push pin. The design allows for leverage against the panel.
3. **Gently Pry:** Apply gentle, even pressure to the handles to pry the push pin upwards and out of its mounting hole. Avoid twisting or excessive force.
4. **Inspect:** After removal, inspect the push pin and the mounting hole for any damage.

*Tip: For stubborn push pins, a slight wiggling motion while prying can help.*

## 6. MAINTENANCE

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Proper maintenance will extend the life of your VIM V230 pliers.

- **Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, use a mild degreaser and then wipe dry.
- **Lubrication:** Periodically apply a light coat of machine oil to the pivot point to ensure smooth operation and prevent rust.
- **Storage:** Store the pliers in a dry environment to prevent corrosion. Keep them away from corrosive chemicals.
- **Inspection:** Regularly inspect the jaws for wear, bending, or chipping. Check the handles for any damage. Replace the tool if significant wear or damage is observed.

## 7. TROUBLESHOOTING

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If you encounter issues while using your VIM V230 pliers, consider the following:

- **Difficulty Gripping Snap Ring/Push Pin:**
  - Ensure the tool tips are correctly seated in the snap ring holes or under the push pin head.
  - Verify the snap ring/push pin size is compatible with the tool's capacity.
  - Clean any grease or dirt from the component and tool tips for better grip.
- **Tool Slipping:**
  - Re-position the tool for a more secure hold.
  - Check for wear on the tool tips; worn tips may reduce grip.
  - Ensure you are applying even pressure.
- **Excessive Force Required:**
  - The component might be seized or rusted. Apply penetrating oil if appropriate for the material.
  - Confirm you are using the correct procedure for the specific component.
  - Do not force the tool; this can cause damage to the tool or the component.

## 8. SPECIFICATIONS

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Key specifications for the VIM V230 U-Joint Snap Ring Plier and Push Pin Removal Plier:

Feature	Detail
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Feature	Detail
Model Number	V230
Brand	VIM
Material	Aluminum
Color	Red (Handles)
Handle Material	Aluminum
Grip Type	Ergonomic
Item Weight	0.19 Pounds (approx. 3.04 ounces)
Product Dimensions	Approximately 13.7 x 5.5 x 1.5 inches
UPC	072090456067, 777780948593, 092308002305, 069060282474

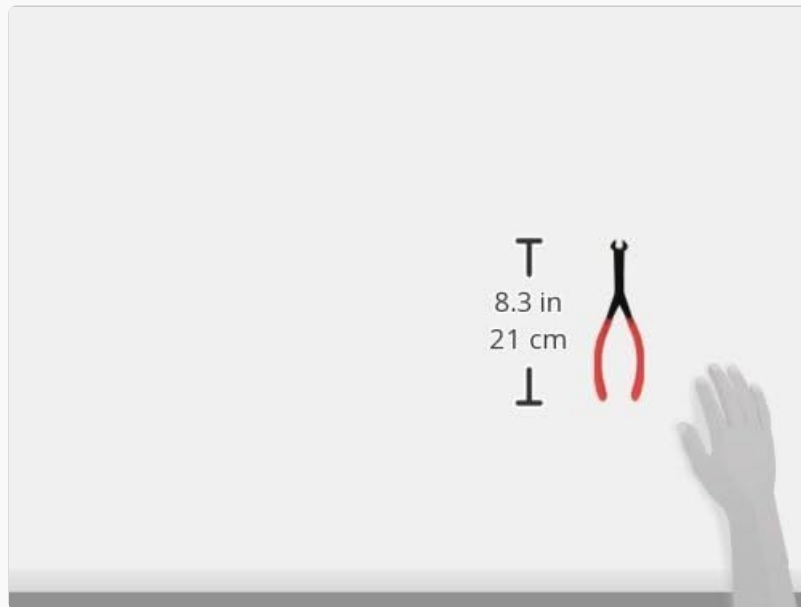


Figure 8.1: Dimensional representation of the VIM V230 pliers, indicating a length of approximately 8.3 inches (21 cm).

## 9. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to inquire about replacement parts, please contact VIM Tools directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.

**Manufacturer:** Vim Tools

