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Proto J360B

Proto J360B 12 Piece Convertible Retaining Ring Pliers Set Instruction Manual

Model: J360B | Brand: Proto

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, maintenance, and storage of your Proto J360B 12 Piece Convertible Retaining Ring Pliers Set. This set is designed for installing and removing both internal and external retaining rings across a wide range of sizes. Please read this manual thoroughly before using the tools.

2. SAFETY INFORMATION

Always observe the following safety precautions when using retaining ring pliers:

- **Eye Protection:** Always wear ANSI-approved safety glasses or goggles when working with retaining rings. Retaining rings can dislodge and fly off with considerable force.
- **Proper Tool Selection:** Use the correct size and type of pliers for the specific retaining ring. Using an incorrect tool can damage the ring, the workpiece, or the pliers, and may cause injury.
- **Inspect Tools:** Before each use, inspect pliers for damage, wear, or deformation. Do not use damaged tools.
- **Secure Workpiece:** Ensure the workpiece is stable and secure before attempting to remove or install a retaining ring.
- **Maintain Grip:** Always maintain a firm grip on the pliers and the retaining ring.
- **Cleanliness:** Keep tools clean and free of grease or oil to ensure a secure grip.
- **Storage:** Store tools in their designated case when not in use to prevent damage and loss.

3. PACKAGE CONTENTS

Your Proto J360B set includes the following items, neatly organized in a durable blow-molded carrying case:

- 12 x Proto Retaining Ring Pliers (Models: J399, J370, J371, J372, J373, J374, J385, J375, J376, J377, J378, J379)
- 1 x Blow-Molded Carrying Case with storage for spare rings



Figure 1: Proto J360B Pliers Set in its open carrying case, showing the full assortment of pliers.



Figure 2: Angled view of the Proto J360B Pliers Set, highlighting the organized storage within the case.

4. SETUP AND IDENTIFICATION

The Proto J360B set provides a comprehensive range of pliers for various retaining ring applications. Each plier is designed for either internal or external retaining rings and features different tip angles (straight, 45-degree, 90-degree) to suit specific access requirements.

4.1 Identifying Pliers for Internal vs. External Rings

- **Internal Retaining Ring Pliers:** These pliers are designed to compress a retaining ring to fit into a bore. When the handles are squeezed, the tips close together.
- **External Retaining Ring Pliers:** These pliers are designed to expand a retaining ring to fit onto a shaft. When the handles are squeezed, the tips spread apart.

4.2 Ring Range

The pliers in this set are suitable for the following retaining ring sizes:

- **External (Shaft) Rings:** 1/4-inch to 3-11/32-inch diameter
- **Internal (Bore) Rings:** 3/8-inch to 3-inch diameter

Select the plier with the appropriate tip size and angle that best fits the retaining ring's lug holes and provides clear access to the ring.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective removal and installation of retaining rings:

5.1 Removing a Retaining Ring

1. **Select Pliers:** Choose the correct plier type (internal or external) and tip size/angle that matches the retaining ring. The plier tips should fit snugly into the ring's lug holes.
2. **Position Pliers:** Insert the plier tips securely into the lug holes of the retaining ring.
3. **Compress/Expand:**
 - For *internal* rings, gently squeeze the plier handles to compress the ring.
 - For *external* rings, gently squeeze the plier handles to expand the ring.
4. **Remove Ring:** Once the ring is sufficiently compressed or expanded, carefully lift or slide it off the shaft or out of the bore. Maintain control to prevent the ring from flying off.

5.2 Installing a Retaining Ring

1. **Select Pliers:** As with removal, choose the appropriate plier type and tip size/angle.
2. **Position Ring:** Place the retaining ring onto the plier tips, ensuring the tips are fully seated in the lug holes.
3. **Compress/Expand:**
 - For *internal* rings, gently squeeze the plier handles to compress the ring.
 - For *external* rings, gently squeeze the plier handles to expand the ring.
4. **Install Ring:** Carefully guide the compressed or expanded ring into its groove on the shaft or in the bore. Release the plier handles slowly, ensuring the ring seats fully and correctly in its groove. Verify the ring is properly seated before releasing tension completely.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your Proto retaining ring pliers:

- **Cleaning:** After each use, wipe down the pliers with a clean cloth to remove dirt, grease, or debris. For stubborn grime, use a mild solvent and ensure tools are thoroughly dried afterward.
- **Lubrication:** Periodically apply a light coat of machine oil to the pivot points to ensure smooth operation and prevent

rust.

- **Inspection:** Regularly inspect the plier tips for wear, bending, or breakage. Replace any damaged pliers immediately.
- **Storage:** Always store the pliers in their original blow-molded case in a dry environment to protect them from moisture and physical damage. The case also helps keep the set organized.

7. TROUBLESHOOTING

If you encounter issues while using your retaining ring pliers, consider the following:

- **Difficulty Gripping Ring:**
 - Ensure the plier tips are fully seated in the retaining ring's lug holes.
 - Verify you are using the correct size and type of plier for the ring. Tips that are too small or too large will not provide a secure grip.
 - Check for worn or bent plier tips. Replace if damaged.
- **Ring Snapping Off:**
 - Always wear eye protection.
 - Maintain a firm and controlled grip on the pliers and the ring.
 - Ensure the ring is fully compressed or expanded before attempting to remove or install it.
- **Pliers Sticking/Stiff Operation:**
 - Clean any accumulated dirt or debris from the pivot points.
 - Apply a light lubricant to the pivot points.

8. SPECIFICATIONS

Feature	Specification
Model Number	J360B
Brand	Proto
Manufacturer	Stanley Proto
Item Package Quantity	1 (Set of 12 Pliers)
External Ring Range (Shaft)	1/4-inch - 3-11/32-inch
Internal Ring Range (Bore)	3/8-inch - 3-inch
Item Weight (Set)	4.82 lbs
Product Dimensions	1 x 1 x 1 inches
Material	Blend (Pliers: Steel, Handles: Plastic)
Handle Material	Plastic
Color	Red/Black

Feature	Specification
Power Source	Hand Powered

Note: Product dimensions provided (1 x 1 x 1 inches) may refer to individual components or packaging, not the overall case dimensions.

9. WARRANTY AND SUPPORT

This Proto J360B 12 Piece Convertible Retaining Ring Pliers Set is covered by a manufacturer's warranty. For specific details regarding warranty coverage, claims, or technical support, please refer to the official Proto website or contact Stanley Proto customer service directly.

Keep your purchase receipt as proof of purchase for any warranty claims.

