

Dixon TC97

Dixon TC97 Tubing and Hose Cutter User Manual

Model: TC97 | Brand: Dixon
For 3/4" O.D. PVC Tubing and Hose



1. INTRODUCTION AND PRODUCT OVERVIEW

The Dixon TC97 Tubing and Hose Cutter is a robust hand tool designed for precise and clean cutting of PVC tubing and hose up to 3/4 inch (20mm) outer diameter. Its corrosion-resistant hardened steel blade ensures straight, crisp cuts, which are essential for optimal fit and performance in various applications. The cutter features a durable PVC body, providing a lightweight yet sturdy construction for reliable use.

This manual provides essential information regarding the safe operation, maintenance, and specifications of your Dixon TC97 cutter to ensure its longevity and effective performance.

2. SAFETY INFORMATION

WARNING: Always exercise caution when using cutting tools. Improper use can result in serious injury.

- Keep hands and fingers clear of the blade at all times.
- Wear appropriate personal protective equipment (PPE), such as safety glasses, to protect against flying debris.
- Ensure the work area is well-lit and free of obstructions.
- Do not attempt to cut materials beyond the specified capacity (3/4" O.D. or 20mm).
- Store the cutter in a safe place, out of reach of children, when not in use.
- Inspect the blade for damage or dullness before each use. A dull blade can lead to uneven cuts and require excessive force.

3. PRODUCT COMPONENTS



The Dixon TC97 cutter consists of a durable PVC body with two handles that pivot around a central pin. The cutting mechanism includes a hardened steel blade, designed for clean and precise cuts. A spring mechanism keeps the handles open when not in use, facilitating easy placement of tubing.

- A. Handles:** Ergonomically designed for comfortable grip and leverage.
- B. Steel Blade:** Corrosion-resistant, hardened steel blade for sharp, clean cuts.
- C. V-shaped Cradle:** Guides and holds the tubing securely during cutting.
- D. Pivot Pin:** Connects the two halves of the cutter, allowing for the cutting action.

4. SETUP

The Dixon TC97 cutter requires minimal setup. Ensure the blade is clean and free of debris before use. No assembly is required.

1. **Inspect the Cutter:** Before each use, check the cutter for any signs of damage, especially the blade. Ensure the handles move freely and the spring mechanism is functional.
2. **Prepare Tubing/Hose:** Measure and mark the desired cut point on your PVC tubing or hose. Ensure the material is clean and free of kinks or bends near the cut area.

5. OPERATING INSTRUCTIONS

Follow these steps for effective and safe cutting:

1. **Open the Cutter:** Squeeze the handles slightly and allow the spring to fully open the cutter jaws.
2. **Position the Tubing:** Place the tubing or hose into the V-shaped cradle of the cutter, aligning the marked cut point with the blade. Ensure the tubing is seated firmly and straight within the cradle.
3. **Apply Pressure:** Slowly and steadily squeeze the handles together. The blade will advance and cut through the tubing.
4. **Maintain Straightness:** Apply even pressure throughout the cutting process to ensure a straight and clean cut. Avoid twisting the cutter or the tubing during the cut.
5. **Complete the Cut:** Continue squeezing until the blade has fully passed through the tubing.
6. **Release and Remove:** Release the handles to open the jaws and carefully remove the cut tubing.

Tip: For thicker or harder materials within the specified capacity, apply steady, continuous pressure rather than quick, forceful squeezes to achieve a cleaner cut and reduce strain on the tool.

6. MAINTENANCE

Proper maintenance will extend the life of your Dixon TC97 cutter:

- **Cleaning:** After each use, wipe the blade and body of the cutter with a clean, dry cloth to remove any debris or residue. For stubborn residue, a damp cloth can be used, followed by thorough drying.
- **Blade Care:** While the blade is corrosion-resistant, storing it in a dry environment is recommended. If the blade becomes dull over time, it may need to be replaced by a qualified technician or with an official Dixon replacement blade (if available). Do not attempt to sharpen the blade yourself unless you have the proper tools and expertise.
- **Lubrication:** Occasionally, a small drop of light machine oil can be applied to the pivot pin to ensure smooth operation of the handles.
- **Storage:** Store the cutter in a clean, dry place, away from extreme temperatures and humidity.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Uneven or jagged cuts	Dull blade; Tubing not seated properly; Uneven pressure during cut.	Inspect blade for sharpness and replace if necessary. Ensure tubing is straight and fully seated in the cradle. Apply steady, even pressure throughout the cut.
Difficulty cutting	Dull blade; Cutting material too thick; Cutter mechanism stiff.	Check blade sharpness. Ensure material is within 3/4" O.D. capacity. Apply a small amount of lubricant to the pivot pin.
Handles sticking	Dirt/debris in pivot; Lack of lubrication.	Clean the pivot area. Apply a small amount of light machine oil to the pivot pin.

8. SPECIFICATIONS

Model	TC97
Brand	Dixon
Maximum Cutting Capacity	3/4 inch O.D. (20mm) tubing or hose
Blade Material	Corrosion Resistant Hardened Steel
Body Material	PVC
Manufacturer	Dixon Valve & Coupling
Date First Available	July 15, 2014
ASIN	B00LTY124

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, replacement parts, or technical support for your Dixon TC97 Tubing and Hose Cutter, please contact Dixon Valve & Coupling directly through their official website or customer service

channels. Please have your product model number (TC97) and ASIN (B00LTY124) available when contacting support.

For general inquiries, you may visit the [Dixon Valve & Coupling website](#).

