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› Dent Fix DF-EZ10 Parking Sensor & Lens Hole Maker User Manual

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Model: DF-EZ10

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Dent Fix DF-EZ10 Parking Sensor & Lens Hole Maker. This tool is designed to create precise and clean holes in automotive bumpers for the installation of driver-assist sensors and lenses.

SAFETY INFORMATION

Always prioritize safety when operating any tools. Read and understand all instructions before use. Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves. Keep hands clear of cutting surfaces. Ensure the workpiece is securely stabilized before operation.

PRODUCT COMPONENTS

The Dent Fix DF-EZ10 kit includes various components designed for creating holes of specific diameters. Familiarize yourself with each part before beginning any work.



Figure 1: All components of the DF-EZ10 kit, including various hole punch dies, a bolt, a nut, and a drill bit, laid out on a white surface.



Figure 2: The Dent Fix DF-EZ10 kit neatly organized within its red plastic storage case, showing the various dies and the main cutting assembly.

The kit includes hole punch dies in the following sizes:

- 17mm
- 18mm
- 18.2mm
- 19mm
- 20mm
- 22.5mm
- 24mm
- 26mm
- 26.7mm

- 32mm

Other components include a central bolt, a nut, and a drill bit for pilot holes.

SETUP

1. **Identify Required Hole Size:** Determine the exact diameter needed for the parking sensor or lens you intend to install.
2. **Select Corresponding Dies:** Choose the appropriate cutting die and counter-die from the kit that matches the required hole size.
3. **Assemble the Tool:**
 - a. Insert the central bolt through the cutting die.
 - b. Place the material to be cut (e.g., bumper) between the cutting die and the counter-die.
 - c. Secure the counter-die onto the bolt, ensuring the material is sandwiched firmly and correctly aligned.
 - d. Thread the nut onto the bolt, but do not tighten fully yet.
4. **Prepare the Workpiece:** Ensure the bumper or material is clean, dry, and free of obstructions. Mark the precise center point for the hole.

OPERATING INSTRUCTIONS

1. **Pilot Hole (Optional but Recommended):** If necessary, use the provided drill bit to create a small pilot hole at the marked center point. This can aid in precise placement of the punch.
2. **Position the Tool:** Align the assembled hole maker over the marked location on the bumper. Ensure the cutting die is on the side where the cleanest cut is desired (typically the exterior surface).
3. **Tighten Manually:** Begin tightening the nut onto the bolt using a wrench. Turn slowly and steadily. The tool is designed to cut cleanly through the material as the dies are drawn together.
4. **Avoid Impact Tools: Do not use an impact wrench or impact driver** unless the plastic material is sufficiently heated to increase its pliability. Using impact tools on cold plastic can lead to stripping the bolt or an unclean cut.
5. **Monitor the Cut:** Observe the cutting process. The tool should create a clean, circular hole. If resistance is excessive, stop and re-evaluate alignment or material thickness.
6. **Complete the Cut:** Continue tightening until the dies have fully cut through the material and the slug is separated.
7. **Remove the Tool:** Loosen the nut and carefully disassemble the tool, removing the cut material.
8. **Test Fit:** It is recommended to test fit the sensor or lens into a scrap piece of bumper cover first to confirm the correct die size and cutting technique.

MAINTENANCE

- **Cleaning:** After each use, clean all components to remove plastic debris and residue. A soft brush or cloth can be used.
- **Lubrication:** Periodically apply a light coat of machine oil to the bolt threads to ensure smooth operation and prevent corrosion.
- **Inspection:** Regularly inspect the cutting edges of the dies for wear or damage. Damaged dies may result in unclean cuts.
- **Storage:** Store the kit in its original case in a dry, clean environment to protect the components from damage.

and loss.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unclean or ragged cut	<ul style="list-style-type: none">• Incorrect die alignment• Worn or dull cutting dies• Material too cold or brittle• Excessive force or speed during tightening	<ul style="list-style-type: none">• Ensure dies are perfectly aligned before tightening.• Inspect dies for damage; replace if necessary.• Gently heat the plastic material before cutting.• Tighten slowly and steadily with a wrench.
Bolt or nut strips	<ul style="list-style-type: none">• Use of impact tools• Over-tightening• Cross-threading	<ul style="list-style-type: none">• Do not use impact tools. Use a hand wrench.• Tighten only until the cut is complete.• Ensure the nut is threaded correctly before tightening.
Dies do not fit over bolt	<ul style="list-style-type: none">• Manufacturing defect• Incorrect component pairing	<ul style="list-style-type: none">• Verify all components are from the DF-EZ10 kit.• Contact Dent Fix customer support for assistance.

SPECIFICATIONS

- **Model:** DF-EZ10
- **Product Type:** Hole Maker for Parking Sensors & Lenses
- **Material:** Metal
- **Item Weight:** Approximately 1.45 pounds (0.658 Kilograms)
- **Product Dimensions:** Approximately 14 x 7 x 7 inches (packaged)
- **Hole Sizes Included:** 17mm, 18mm, 18.2mm, 19mm, 20mm, 22.5mm, 24mm, 26mm, 26.7mm, 32mm
- **Country of Origin:** Taiwan, Province Of China

WARRANTY INFORMATION

This product is covered by a Manufacturer Warranty. For specific details regarding warranty coverage, duration, and claims process, please refer to the documentation provided with your purchase or contact Dent Fix customer support directly.

CUSTOMER SUPPORT

If you encounter any issues not covered in this manual or require further assistance, please contact Dent Fix customer support. Refer to the product packaging or the official Dent Fix website for contact information.

