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DEF POE-JP-DR-GE02-SI

DEF Door Bushing Removal Tool and Hinge Liners User Manual

Model: POE-JP-DR-GE02-SI
Brand: DEF

1. Product Overview

The DEF Door Bushing Removal Tool and Hinge Liners kit is designed to facilitate the removal of old, corroded door hinge bushings and the installation of new, durable liners for Jeep Wrangler JK, JKU, JL, JLU, and Gladiator JT models from 2007 to 2021. This kit includes a robust steel removal tool and a set of replacement hinge liners.

The door pin guides assist in aligning door pins for easy reinstallation of doors, while the removal tool is specifically engineered to disassemble corrosive original equipment (OE) hinge liners.

2. Components

- 1 x Steel Door Bushing Removal Tool
- Multiple x Replacement Hinge Liners (quantity varies by kit, typically 8 for a 4-door vehicle)



Image: The complete kit, showing the steel removal tool and eight black replacement hinge liners.



Image: A closer view of the eight black replacement hinge liners, designed to fit Jeep Wrangler door hinges.

3. Installation Instructions

This section details the process for removing existing door hinge bushings and installing the new DEF replacement liners. It is recommended to work on one door at a time.

3.1. Removing Old Bushings

1. **Prepare the Hinge:** Ensure the door is removed from the vehicle. Clean any visible dirt or debris from around the hinge area. For severely corroded hinges, applying a penetrating lubricant (e.g., WD-40, PB Blaster) and allowing it to soak may aid in removal.
2. **Position the Removal Tool:** Insert the top (smaller diameter) end of the DEF door bushing removal tool into the bottom of the door hinge. The tool is designed to fit snugly inside the existing bushing.
3. **Tap Out the Bushing:** Using a hammer or rubber mallet, firmly tap the top of the removal tool. Continue tapping until the original equipment (OE) liner is completely disassembled and pushed out from the top of the hinge. This may require significant force for corroded bushings.



Image: The DEF removal tool positioned in a Jeep door hinge, ready for the old bushing to be tapped out.

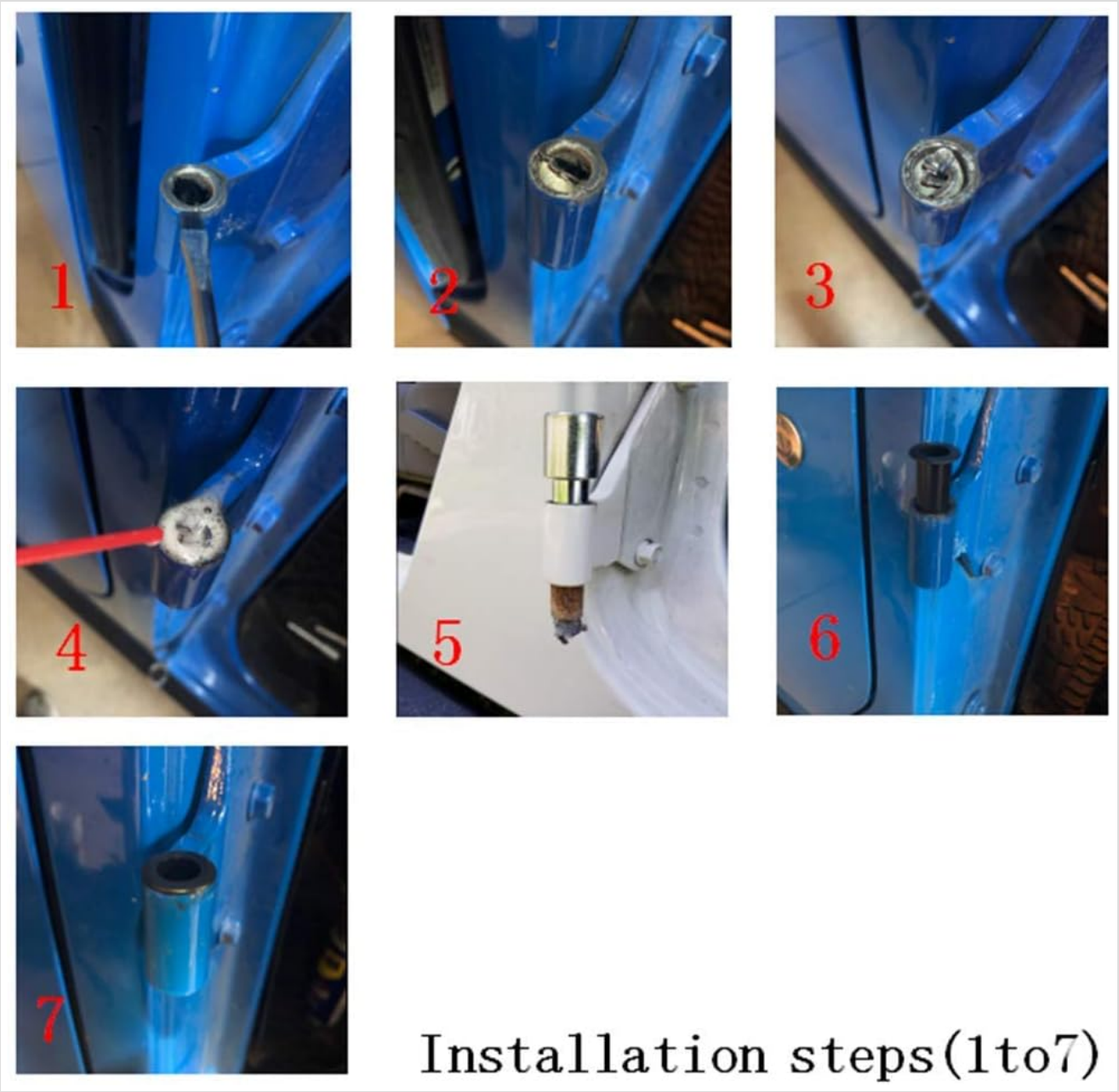


Image: A visual guide illustrating the step-by-step process of bushing removal and new liner installation.

3.2. Installing New Liners

1. **Clean the Hinge:** After removing the old bushing, thoroughly clean the inside of the hinge barrel to remove any rust, debris, or old lubricant. A wire brush or sandpaper may be useful.
2. **Lubricate (Optional but Recommended):** Apply a small amount of grease or lubricant to the new DEF hinge liner. This can help with easier installation and smoother door operation.
3. **Insert New Liner:** Carefully align the new hinge liner with the top of the clean hinge barrel.
4. **Tap In New Liner:** Using a rubber mallet (or a regular hammer with a block of wood to protect the liner), gently tap the new liner into place until it is fully seated and flush with the hinge. Avoid excessive force to prevent damage to the new liner.

3.3. Reinstalling Doors

1. **Align Door Pins:** Use the door pin guides (if included or available) to help align the door pins with the newly installed hinge liners.
2. **Lower the Door:** Carefully lower the door, guiding the pins into the liners until the door is fully seated on the

hinges.

3. **Test Operation:** Open and close the door several times to ensure smooth operation.



Image: Using a door pin guide to assist in aligning the door for reinstallation.

4. Maintenance

To ensure the longevity and smooth operation of your new DEF hinge liners, consider the following maintenance tips:

- **Regular Cleaning:** Periodically clean the hinge areas to prevent accumulation of dirt, dust, and road grime, which can lead to wear.
- **Lubrication:** Apply a small amount of automotive-grade grease or silicone spray to the hinge pins and liners annually, or as needed, especially after exposure to harsh weather conditions (e.g., road salt).
- **Inspection:** Routinely inspect the liners for any signs of wear or damage. Replace them if they appear cracked, deformed, or if door operation becomes stiff.

5. Troubleshooting

Problem: Old bushings are difficult to remove.

Solution: Severely corroded bushings may require more aggressive methods. Ensure ample penetrating lubricant is applied and allowed to soak for an extended period. Use firm, consistent hammering. In some cases, a chisel or punch may be needed to break the corrosion seal before using the removal tool. Patience is key.

Problem: New liners do not fit or are difficult to install.

Solution: Ensure the hinge barrel is completely clean and free of any old bushing residue or rust. Apply a generous amount of grease or lubricant to the new liner. Use a rubber mallet for installation; if a regular hammer is used, place a piece of wood or a soft block over the liner to protect it from damage. Verify that the product is compatible with your specific Jeep model and year (2007-2021 JK, JKU, JL, JLU, JT).

Problem: Doors are still stiff or difficult to remove/install after liner replacement.

Solution: Re-check that the new liners are fully seated. Ensure the hinge pins are clean and free of corrosion. Apply additional lubricant to the hinge pins and liners. If the issue persists, inspect the door hinges themselves for any bending or damage that might be impeding smooth operation.

6. Specifications

Brand	DEF
Model Number	POE-JP-DR-GE02-SI
Item Weight	5.9 ounces
Package Dimensions	3.82 x 2.44 x 2.01 inches
Material	Steel (Removal Tool), Plastic (Hinge Liners)
Compatible Vehicles	Jeep Wrangler JK, JKU, JL, JLU, Gladiator JT (2007-2021)

7. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the product packaging or contact the manufacturer directly through their official website or customer service channels. Keep your purchase receipt for any warranty claims.

Manufacturer: DEF

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