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**Orion Motor Tech BJS-ZX01-N2**

# Orion Motor Tech 16-Piece Inner Bearing Puller Kit (6-59mm) with Slide Hammer - Instruction Manual

Model: BJS-ZX01-N2

## 1. Introduction

Thank you for choosing the Orion Motor Tech 16-Piece Inner Bearing Puller Kit. This professional-grade tool set is designed for efficient and safe removal of blind hole bearings, bushings, and seals from 6mm to 59mm in diameter. Constructed from durable materials, this kit is suitable for a wide range of automotive and mechanical repair tasks. Please read this manual thoroughly before use to ensure proper operation and safety.




Image 1: The Orion Motor Tech 16-Piece Inner Bearing Puller Kit, neatly organized in its durable red blow-molded storage case.

## 2. Safety Information

Always follow basic safety precautions when using power tools and automotive equipment to reduce the risk of personal injury or damage to equipment.

- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or a face shield when operating this tool.
- **Wear Hand Protection:** Use appropriate gloves to protect your hands from sharp edges and pinch points.
- **Work in a Well-Lit Area:** Ensure adequate lighting in your workspace.

- **Keep Work Area Clean:** Cluttered work areas invite accidents.
- **Use Correct Tool for the Job:** Do not force the tool or attachments.
- **Inspect Tool Before Use:** Check for damaged parts. Do not use if any component is compromised.
- **Secure Workpiece:** Ensure the component being worked on is stable and secured.
- **Keep Children Away:** Do not allow children or untrained persons to handle the tool.
- **Avoid Sudden Movements:** Use controlled force, especially with the slide hammer.




Image 2: Demonstrating safe operation of the bearing puller, highlighting the importance of proper technique and protective gear.

## 3. Package Contents

Your Orion Motor Tech 16-Piece Inner Bearing Puller Kit includes the following components:

- 1x Slide Hammer
- 1x Counter-Stay Puller
- 3x Screw Adapters
- 10x Split Collets (ranging from 6mm to 59mm)
- 1x Spare Pin Bolt
- 1x Storage Case
- 1x Instruction Manual




Image 3: A detailed overview of all components included in the kit, illustrating each part for easy identification.

## 4. Components Overview

The kit features robust components designed for durability and effective bearing removal:

- **Slide Hammer:** Provides strong, controlled impact for stubborn bearings. Features a comfortable T-handle and a chrome-plated shaft for durability and ease of use in confined spaces.
- **Counter-Stay Puller:** Offers a steady, gradual extraction method for delicate or tightly fitted bearings.
- **Split Collets:** Ten different sizes of collets made from chrome-molybdenum steel, designed to expand and grip the inner race of the bearing.
- **Screw Adapters:** Three adapters to connect the collets to either the slide hammer or the counter-stay puller.




Image 4: Features of the robust slide hammer, including its ergonomic T-handle and durable construction materials.

## 5. Setup

Before beginning any work, ensure you have selected the correct collet for the bearing you intend to remove.

1. **Identify Bearing Size:** Measure the inner diameter of the bearing to be removed.
2. **Select Correct Collet:** Choose a split collet from the kit that matches the inner diameter of the bearing. The collet should fit snugly into the bearing's inner race. Refer to the compatibility chart below.
3. **Assemble Tool:** Thread the chosen collet onto one of the screw adapters. Then, attach the adapter to either the slide hammer or the counter-stay puller, depending on the extraction method required.



Image 5: Compatibility chart for the 10 split collets, indicating their effective diameter ranges for various bearings.

## 6. Operating Instructions

This kit offers two primary methods for bearing extraction: using the slide hammer for impact removal or the counter-stay puller for controlled, steady force.

### 6.1. Using the Slide Hammer

1. **Insert Collet:** Insert the assembled collet (with adapter) into the inner race of the bearing.
2. **Expand Collet:** Tighten the screw adapter to expand the collet, ensuring it firmly grips the inner race of the bearing. The collet's teeth will deploy to secure the bearing.
3. **Extract Bearing:** Hold the slide hammer firmly. With controlled force, pull the weight of the slide hammer towards the end of the shaft, away from the bearing. The impact will gradually pull the bearing out. Repeat as necessary until the bearing is free.

### 6.2. Using the Counter-Stay Puller

1. **Insert Collet:** Insert the assembled collet (with adapter) into the inner race of the bearing.
2. **Expand Collet:** Tighten the screw adapter to expand the collet, ensuring it firmly grips the inner race of the bearing.
3. **Position Counter-Stay:** Place the U-shaped counter-stay puller over the collet and against a stable surface of the component from which the bearing is being extracted.
4. **Extract Bearing:** Slowly turn the central bolt of the counter-stay puller clockwise. This will apply steady, even pressure, gradually pulling the bearing out without impact. This method is ideal for tight spaces or when a gentler extraction is preferred.




Image 6: Demonstrating both the slide hammer method (left) and the counter-stay puller method (right) for bearing removal.

Image 7: Visual representation of the collet expansion mechanism, crucial for securing the bearing before extraction.

## 7. Maintenance

Proper maintenance will extend the life of your tool kit.

- **Cleaning:** After each use, wipe all components clean with a dry cloth to remove grease, dirt, and debris.
- **Lubrication:** Lightly oil threaded parts and moving components periodically to prevent rust and ensure smooth

operation.

- **Storage:** Store all components in the provided blow-molded case in a dry, clean environment.
- **Inspection:** Regularly inspect components for wear, damage, or deformation. Replace any damaged parts immediately.

## 8. Troubleshooting

Here are some common issues and their potential solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Collet does not grip bearing. | Incorrect collet size; collet not fully expanded. | Ensure correct collet size is selected. Tighten the screw adapter fully to expand the collet. |
| Bearing is difficult to remove. | Bearing is seized or very tight; insufficient force applied. | For stubborn bearings, ensure the slide hammer is used with firm, consistent impacts. For very tight bearings, consider applying penetrating oil and allowing it to soak. Ensure the counter-stay is properly braced. |
| Tool components are sticking or difficult to assemble. | Lack of lubrication; dirt/debris in threads. | Clean all threaded parts and apply a light coat of lubricant. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Brand | Orion Motor Tech |
| Model Name | Inner Bearing Puller |
| Model Number | BJS-ZX01-N2 |
| Kit Pieces | 16 |
| Bearing Diameter Range | 6-59 mm (1/4 to 2-1/3 inches) |
| Material | AISI 45 Forged Steel (galvanized), Chrome-Molybdenum Steel (collets) |
| Item Weight | 4.94 Kilograms |
| Product Dimensions (L x W x H) | 32.2 x 24.7 x 9 cm |

## 10. Warranty & Support

Orion Motor Tech products are manufactured to high-quality standards. For specific warranty information, please refer to the product packaging or contact your retailer. For technical support or inquiries regarding your product, please visit the official Orion Motor Tech website or contact their customer service department.
**Online Resources:** Orion Motor Tech Store on Amazon

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