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## Orion Motor Tech RA07-00

# Orion Motor Tech Rear Axle Bearing Puller Tool Kit and Slide Hammer Set

Model: RA07-00

## INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Orion Motor Tech Rear Axle Bearing Puller Tool Kit and Slide Hammer Set. This 8-piece professional tool set is designed for the removal of rear axle bearings, seals, and other press-fit components on most domestic cars and light trucks. Please read this manual thoroughly before operation to ensure proper usage and to prevent damage to the tool or vehicle.

## SAFETY INFORMATION

**WARNING: Always wear appropriate personal protective equipment, including safety glasses, when using this tool. Failure to do so may result in serious injury.**

- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work.
- Do not use damaged or modified tools. Inspect all components before each use.
- Keep hands and fingers clear of moving parts, especially when using the slide hammer.
- Use the correct adapter for the specific bearing or seal being removed.
- Store the tool kit in its case in a dry, secure location when not in use.

## PACKAGE CONTENTS

The Orion Motor Tech Rear Axle Bearing Puller Tool Kit includes the following components:

- 1 x 5/8" Slide Hammer
- 1 x Axle Flange Yoke
- 1 x Locknut
- 1 x Bearing & Seal Hook
- 3 x Bearing Puller Adapters (Small, Medium, Large)
- 1 x Storage Case



Image: Complete 8-piece tool kit with slide hammer, yoke, hook, and three bearing puller adapters, neatly organized in a durable blue storage case.

## SETUP AND ASSEMBLY

The tool kit is designed for quick and easy assembly. Follow these steps to prepare the tool for use:

- 1. Identify Components:** Familiarize yourself with the slide hammer, axle flange yoke, bearing & seal hook, and the three bearing puller adapters.
- 2. Attach Desired Component:** The 5/8" threaded end of the slide hammer is compatible with all included adapters.
  - For **Axle Pulling:** Thread the axle flange yoke onto the slide hammer. Secure it with the locknut.
  - For **Seal Pulling:** Thread the bearing & seal hook onto the slide hammer.
  - For **Bearing Pulling:** Select the appropriate bearing puller adapter based on the inner diameter of the bearing. Thread it onto the slide hammer.

# 8 PIECE MASTER AXLE PULLER KIT



Image: An exploded view diagram illustrating the main components of the 8-piece master axle puller kit, including the slide hammer, axle flange yoke, bearing & seal hook, and three bearing puller adapters.

## OPERATING INSTRUCTIONS

### A. Rear Axle Removal (Flange Type)

1. Prepare the vehicle by safely lifting and supporting it. Remove the wheel, brake drum/rotor, and any retaining clips or bolts securing the axle shaft.

2. Attach the axle flange yoke to the slide hammer and secure it.
3. Position the axle flange yoke over the axle flange studs. Ensure the yoke is seated firmly and evenly against the flange.
4. Grip the T-handle of the slide hammer firmly. Slide the hammer weight forcefully towards the T-handle, away from the axle, to create an impact. Repeat this action until the axle shaft is dislodged from the housing.



## **QUICK & EASY**

Straight and Even Force Pops Out Hubs and Axles  
Smoothly and Without Damage

Image: A mechanic demonstrating the use of the slide hammer and axle flange yoke to pull a rear axle from a vehicle's hub assembly, illustrating the direct and even force application.

### **B. Bearing Removal (Semi-Floating Rear Axle)**

The kit includes three bearing puller adapters for various inner diameters:

- Small: 1-1/4" to 1-7/8" IDs
- Medium: 1-5/16" to 2-3/8" IDs
- Large: 1-3/8" to 2-7/8" IDs

## VERSATILE USE

Handle the Vast Majority of Domestic  
Makes and Models



Image: A detailed view of the three bearing puller adapters, highlighting their different sizes and the corresponding inner diameter ranges they are designed to fit.

1. Select the bearing puller adapter that best fits the inner diameter of the bearing to be removed. The adapter should fit snugly inside the bearing.

2. Thread the selected adapter onto the slide hammer.
3. Insert the adapter into the bearing. Ensure the adapter's jaws are fully engaged behind the bearing race. Some adapters feature an adjustable head for hard-to-reach spaces.
4. Using the slide hammer, pull the hammer weight towards the T-handle with firm, consistent strokes until the bearing is extracted.

## **FLEXIBLE**

Handle Even Hard-to-Reach Spaces with Our Adjustable Angle Rotary Adapters



Image: A close-up of one of the bearing puller adapters, demonstrating its adjustable angle rotary feature, which allows for better access in confined areas.

### **C. Seal Removal**

1. Thread the bearing & seal hook onto the slide hammer.
2. Carefully position the hook behind the seal to be removed. Ensure the hook has a secure grip on the seal.
3. Use the slide hammer to pull the seal out. Apply firm, controlled impacts until the seal is dislodged.

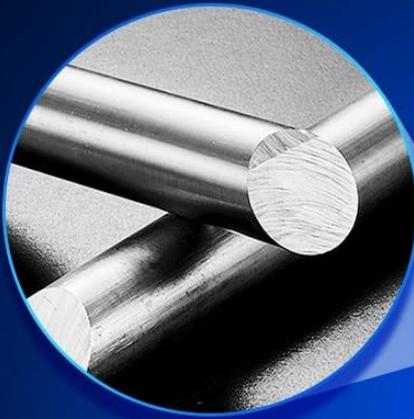
## MAINTENANCE

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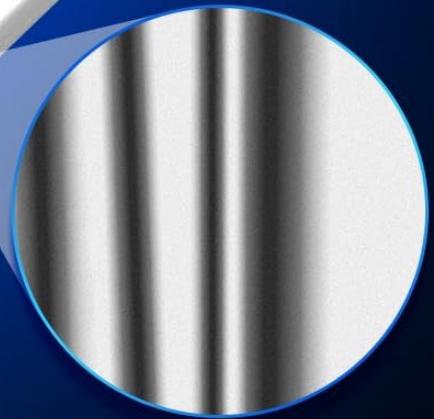
- After each use, clean all components of the tool kit to remove grease, dirt, and debris.
- Apply a light coat of rust-preventative oil to all metal parts before storing.
- Store the tool kit in its original durable storage case to protect components from damage and loss.
- Regularly inspect the slide hammer and adapters for any signs of wear, bending, or cracking. Replace any damaged components immediately.

# STRONG & STURDY

This Set Is Chromed and Blackened to Provide Years of Reliable Service



High-Strength  
Carbon Steel



Protective  
Chrome Plating

Image: A close-up view of the tool's components, illustrating the high-strength carbon steel construction and the protective chrome plating, which contribute to the tool's durability and longevity.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Bearing/Axle not coming out	Insufficient force applied; incorrect adapter size; seized component.	Ensure full, consistent strokes with the slide hammer. Verify adapter fit. Apply penetrating oil to seized components and allow time to work.
Adapter slipping	Adapter not fully engaged; incorrect adapter size.	Re-position the adapter to ensure full engagement. Select a different size adapter if necessary.
Tool damage	Improper use; excessive force; using tool for unintended purpose.	Review operating instructions. Do not exceed the tool's intended capacity. Replace damaged components.

## SPECIFICATIONS

- **Model:** RA07-00
- **Slide Hammer Weight:** 2.5 lbs (approx.)
- **Slide Hammer Threading:** 5/8" x 18
- **Bearing Puller Adapter IDs:** 1-1/4" to 1-7/8", 1-5/16" to 2-3/8", 1-3/8" to 2-7/8"
- **Material:** AISI 1045 Medium Carbon Steel (chrome-plated, galvanized, blackened finishes)
- **Product Dimensions:** 18 x 10 x 3 inches
- **Item Weight:** 10 pounds

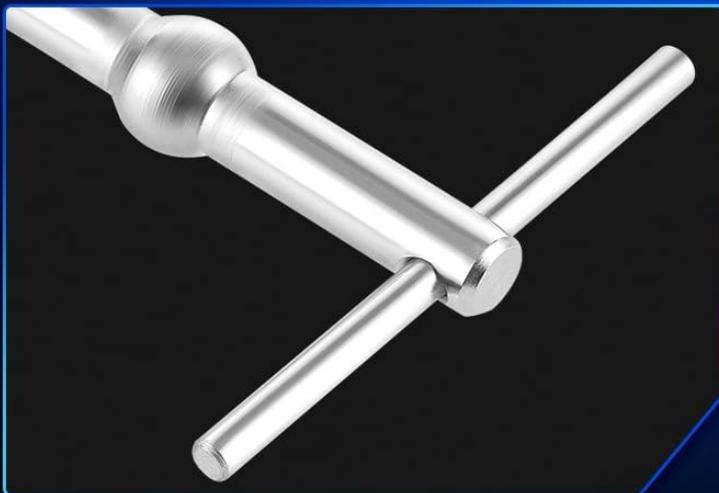
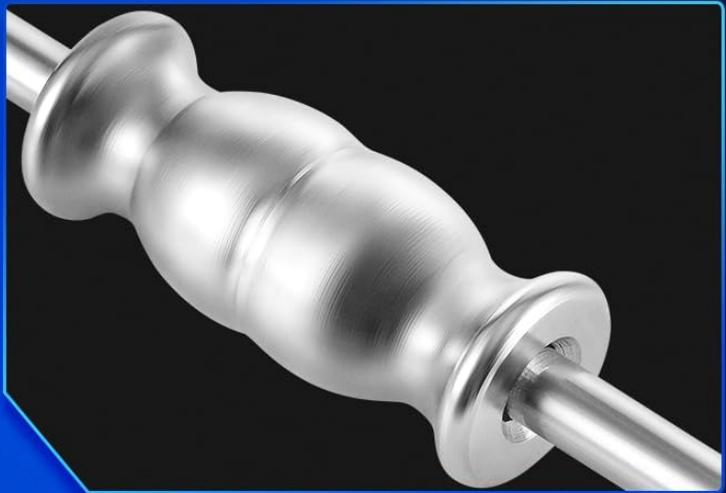


## **5/8" x 18 THREADING**

Our 5/8" x 18 slide hammer fits this set's components perfectly and works with your other 5/8" accessories

## **HEAVY-DUTY SLIDE**

Our 2-1/2 lb. slide hammer offers the strength and torque for easy operation, with a polished chrome exterior for superior durability and performance



## **EASY-GRIP T-HANDLE**

This set's long T-handle offers a firm grip and reduces operational fatigue for DIY or professional repair

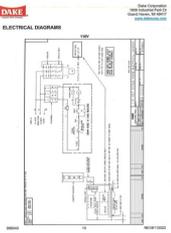
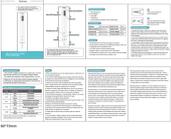
Image: A detailed view showcasing the 5/8" x 18 threading of the slide hammer, its heavy 2.5 lb weight, and the ergonomic T-handle designed for a firm grip and reduced fatigue.

## **WARRANTY AND SUPPORT**

Orion Motor Tech products are manufactured to high standards and are designed for durability and performance. For warranty information, technical support, or to purchase replacement parts, please visit the official Orion Motor Tech website or contact customer service through your point of purchase.

[Visit the Orion Motor Tech Store](#)

## Related Documents - RA07-00

 <p>The image shows a technical electrical diagram with various components, wires, and labels, typical of a wiring schematic for a power tool.</p>	<p><a href="#">Duke Electrical Diagrams and Parts Lists for Band Saws</a></p> <p>Comprehensive electrical diagrams for 110V, 220V single phase, 230V 3-phase, and 460V 3-phase systems, along with detailed parts lists and exploded views for Duke band saws. Includes part numbers, descriptions, and quantities for assembly and maintenance.</p>
 <p>The image shows a blue plastic carrying case for a socket set, with several sockets visible inside.</p>	<p><a href="#">Orion Motor Tech 10-Piece 3/8\" Socket Set User Manual</a></p> <p>User manual for the Orion Motor Tech 10-Piece 3/8\" Socket Set, providing safety information, package contents, operating instructions, and maintenance guidelines for automotive use.</p>
 <p>The image shows a blue carrying case for a set of wrenches, with several wrenches visible inside.</p>	<p><a href="#">Orion Motor Tech Metric Flex-Head Crows Foot Wrench Set User Manual   OMT Tools</a></p> <p>User manual for the Orion Motor Tech Metric Flex-Head Crows Foot Wrench Set. Provides detailed specifications, safe operation instructions, and maintenance guidelines for this automotive tool set.</p>
 <p>The image shows a user manual page with text and diagrams, likely describing the features and usage of a dark spot remover.</p>	<p><a href="#">Professional Dark Spot Remover User Manual</a></p> <p>User manual for the Professional Dark Spot Remover, detailing its features, specifications, application methods, charging instructions, and important precautions for safe and effective use.</p>
 <p>The image shows a blue carrying case for a clutch centering tool kit, with various tools visible inside.</p>	<p><a href="#">OMT 11 Pc. Universal Clutch Centering Tool User Manual</a></p> <p>User manual for the OMT 11 Piece Universal Clutch Centering Tool Kit, detailing safety, specifications, package contents, assembly, operation, and maintenance for aligning clutch discs in vehicles.</p>

**The Grin All-Axle Motor  
Rear V3 Model**

Owner's Manual – Rev 0



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[Grin Technologies V3 Rear All-Axle Hub Motor Owner's Manual](#)

Comprehensive owner's manual for the Grin Technologies V3 Rear All-Axle hub motor, covering installation, features, performance specifications, and maintenance for electric bicycles.