

# Bearing Race and Seal Driver Set

## User Manual

Read Carefully Before Use  
Keep for Future Reference



**OMT**  
Orion Motor Tech

UM-BJS-0048-V1

# Disclaimer

Read this disclaimer completely and carefully before proceeding with the rest of the manual content.

## 1. Product Modifications

Any modifications or alterations to Orion Motor Tech (OMT) products void any warranties and may result in damage or injury. OMT shall not be liable for any damages resulting from such modifications or alterations.

## 2. Compliance with Laws

Customers shall be liable for ensuring that the use of OMT products complies with all applicable laws and regulations in their respective jurisdictions. OMT shall not be responsible for any violations of laws or regulations resulting from the use of OMT products.

## 3. Correct Use

Always use OMT products only as directed in the accompanying manuals. Failure to follow instructions may result in injury or damage.

Always ensure the assembly, installation, operation, maintenance, or repair of OMT products is carried out by a competent person.

Regular maintenance should be performed throughout the lifecycle of OMT products. You are responsible for ensuring the products operate as intended.

Always wear appropriate protective gear.

## 4. Third-Party Products

OMT shall not be liable for any damages or losses resulting from the use of third-party products in conjunction with OMT products. Customers shall refer to the third-party's guidelines and/or warranties (if any) for any third-party products used.

## 5. Limitation of Liability

OMT shall not be liable for any direct, indirect, punitive, incidental, special, or consequential damages to property or life, whatsoever arising out of or connected with the use or misuse of OMT products. In no event shall OMT's liability exceed the value of the products sold.

## 6. Warranty

Refer to the sales page for warranty information.

This disclaimer states the entire obligation of OMT with respect to OMT products. If any part of this disclaimer is determined to be void, invalid, unenforceable, or illegal, including but not limited to the warranty disclaimers, liability disclaimers, and liability limitations set forth above, the invalid or unenforceable provision will be deemed superseded by a valid and enforceable provision that most closely matches the intent of the original provision and the remainder of the agreement shall remain in full force and effect.

# Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us and we'll address your issues ASAP!



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# Safety Information

## Danger

- The instructions provided herein are only for general information. **ALWAYS** perform all repairs in full compliance with your machinery's service manual. After any repair, test your engine and machinery in your workshop and at low speed before returning to regular use. Failure to do so may result in serious property damage and severe personal injury.
- **DO NOT** allow use by children, persons whose mental or physical condition precludes safe use, or persons unfamiliar with this product and its compatible vehicle systems.
- **DO NOT** use while under the influence of alcohol, drugs, or any medication that negatively affects your judgment or reflexes. Keep children and bystanders away during use.
- Keep your work site clean and well-lit. Poorly lit and cluttered work areas increase the risk of accidents and should be avoided.
- **ALWAYS** use personal protective equipment (PPE) suitable for your task. **ALWAYS** wear ANSI and OSHA-approved eye, breathing, and hand protection while using this product. Regular use of this product typically produces microscopic particles known to the state of California to cause cancer, congenital disabilities, or other reproductive harm. Nonslip footwear is also highly recommended. Other equipment such as ear, head, and body protection may also be necessary depending on your work, work environment, and other equipment.
- **ALWAYS** read and understand your machinery's specific safety warnings and instructions before using this kit. Use the correct fluids, pressures, adapters, etc., for your machinery. Make sure the machinery is fully supported and parked before beginning any work. **NEVER** touch any heated surface with exposed skin.
- Before servicing your machinery, turn off its engine and refer to its manufacturer's service and repair manual for instructions on safely securing the machinery with chocks, jacks, stands, etc.
- In case of an accident or injury, have a first aid kit and a communication device (e.g., a phone) readily available. Know the location of emergency medical facilities.
- Machinery repair is an inherently dangerous activity. This manual and the separate machinery service manual cannot cover all possible situations that may arise. **ALWAYS** exercise discretion and good judgment. Seek training if needed.

## Warning

- For best results, keep the kit clean and dry. Remove any fluid, oil, or grease before and after work.
- Dress appropriately for automotive servicing. **DO NOT** wear loose clothing or jewelry, and keep hair, clothing, gloves, hoses, and tools away from any moving parts during use.
- If a component is particularly stubborn, avoid applying excessive force that could damage the puller or the workpiece. Instead, apply penetrating oil, allow it time to work, and gradually apply force.
- Maintain this product. Check for misalignment, binding, wear, or other damage before use. If any damage is detected, repair or replace the defective components before further use. In a large shop, mark such tools "**DO NOT USE**" until they have been repaired. **ONLY** replace components with identical parts.

# Specifications

<b>Dimensions</b>	15.12 × 10.35 × 4.33 in.	38.4 × 26.3 × 11 cm
<b>Weight</b>	4.17 lb.	1.89 kg

## Parts List

### Metric Adapters:

10–12 mm Adapter

12–14 mm Adapter

14–16 mm Adapter

15–17 mm Adapter

16–18 mm Adapter

18–20 mm Adapter

20–22 mm Adapter

22–24 mm Adapter

25–27 mm Adapter

28–30 mm Adapter

30–34 mm Adapter

32–36 mm Adapter

39.5 mm Adapter

35–40 mm Adapter

38–42 mm Adapter

44.5 mm Adapter

50 mm Adapter

59 mm Adapter

63 mm Adapter

65 mm Adapter

72 mm Adapter

76 mm Adapter

81 mm Adapter

### Imperial Adapters:

3/8" × 7/16" Adapter

7/16" × 1/2" Adapter

1/2" × 9/16" Adapter

9/16" × 5/8" Adapter

39/64" × 11/16" Adapter

5/8" × 3/4" Adapter

11/16" × 13/16" Adapter

47/64" × 7/8" Adapter

13/16" × 15/16" Adapter

55/64" × 1" Adapter

15/16" × 1-1/16" Adapter

1" × 1-1/8" Adapter

1-1/16" × 1-3/16" Adapter

1-1/8" × 1-1/4" Adapter

1-3/16" × 1-5/16" Adapter

1-1/4" × 1-3/8" Adapter

### Handles:

Ø21.5 × 127 Knurled Handle with Thread

Ø21.5 × 158 Knurled Handle with O-Rings

Ø16 × 142 Knurled Handle with O-Rings

Ø11.3 × 116 Knurled Handle with O-Rings

### O-Rings × 8

# Operation

## Warning

- Shut off the engine before servicing, set the parking or hand brake, and chock the other wheels. Ensure the vehicle is stationary and the engine has cooled to room temperature before performing maintenance or adjustments.
- **ALWAYS** use the correct tools and personal protective equipment (PPE) before performing any operation. Be extremely careful with possible pinching points, moving parts, or parts that may suddenly spring out.
- **ALWAYS** ensure the vehicle is secure when supported by a jack or lift.
- For your safety, we recommend completing training before using these tools. Serious injury could happen due to a lack of training.

## Installing the Race

1. Select the appropriate adapter and handle for the size and type of bearing to be installed.

### Note:

- The tapered side of the adapter must match the bearing race exactly.
- The handle size must precisely correspond to the adapter's aperture to ensure a secure fit.

2. Insert the appropriate handle into the adapter.

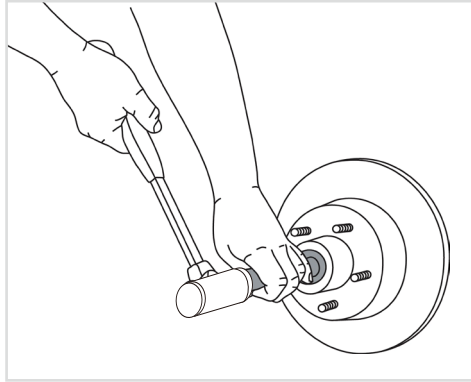
**Note:** The tapered side of the adapter should face the bearing.

### If you choose a handle with thread:

- a. Remove the nut from the handle.
- b. Insert the handle into the adapter.
- c. Secure the adapter to the handle using the nut removed before.

3. Place the outer race onto the housing of the bearing.
4. Align the tapered side of the adapter with the race.
5. Apply pressure to the handle, pressing the race into the housing.

**Note:** It is recommended to use a rubber hammer (not included) to tap the handle.



## Installing the Seal

1. Select the appropriate adapter and handle for the size and type of bearing to be installed.

**Note:**

- The flat side of the adapter should be slightly larger than the seal.
- The handle size must precisely correspond to the adapter's aperture to ensure a secure fit.

2. Insert the selected handle into the selected adapter.

**Note:** The flat side of the adapter should face the bearing.

### If you choose a handle with thread:

- a. Remove the nut from the handle.
- b. Insert the handle into the adapter.
- c. Secure the adapter to the handle using the nut removed before.

3. Place the seal into the designated groove of the bearing's outer or inner ring.
4. Apply pressure to the handle, pressing the seal into the designated seal groove until the seal is flush with the race.

**Note:** It is recommended to use a rubber hammer (not included) to tap the handle.

## Maintenance

- Check the parts of this tool periodically for any wear or damage. Repair or replace any defective parts before further use.
- Clean with a soft cloth. Do not use abrasive tools for cleaning. Do not use caustic chemicals.
- If you will not be using this tool set for an extended period, coat the surfaces with quality anti-corrosion oil, and store them in the original storage box at a location inaccessible to children and away from direct sunlight.



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