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### Carrier P461-2901

# Carrier P461-2901 Blower Bearing 1-3/16" Bore Instruction Manual

## INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Carrier P461-2901 Blower Bearing. Please read these instructions carefully before proceeding to ensure proper function and longevity of the component.

## PRODUCT DESCRIPTION

The Carrier P461-2901 is a blower bearing designed for specific applications requiring a 1-3/16 inch bore. This component is crucial for supporting rotating shafts in blower systems, ensuring smooth operation and reducing friction. It is manufactured to OEM specifications, indicating compatibility and performance standards.



**Figure 1:** Carrier P461-2901 Blower Bearing. This image displays the main bearing unit, which is black with a metallic inner race marked "CHINA" and "PEER". Alongside it is a smaller, black locking collar with a set screw, designed to secure the bearing on a shaft.

## SPECIFICATIONS

- **Brand:** Carrier
- **Model Number:** P461-2901
- **Bearing Number:** P461 2901
- **Bore Size:** 1-3/16 inches
- **Bearing Type:** Ball Bearing
- **Specification Met:** OEM
- **Compatible Lubricant:** Grease
- **Product Dimensions:** 7 x 9 x 3 inches (packaging/overall)
- **Item Weight:** 1 pound

## INSTALLATION AND SETUP

1. **Safety First:** Ensure all power to the blower system is disconnected and locked out before beginning any installation or maintenance. Wear appropriate personal protective equipment (PPE).
2. **Remove Old Bearing:** Carefully remove the old bearing from the shaft and housing. Note the orientation and any shims or spacers.
3. **Clean Components:** Thoroughly clean the shaft and bearing housing to remove any debris, rust, or old lubricant.
4. **Inspect Shaft:** Check the shaft for any damage, burrs, or wear that could affect the new bearing's fit.
5. **Install New Bearing:** Slide the new Carrier P461-2901 bearing onto the shaft. Use a bearing installation tool or a soft-faced hammer and a sleeve to gently tap the inner race until it is seated correctly. **Do not strike the outer race directly.**
6. **Secure with Locking Collar:** Position the locking collar against the bearing and tighten the set screw to secure the bearing firmly to the shaft. Ensure the bearing is properly aligned and free to rotate without binding.
7. **Lubrication:** Apply appropriate grease as specified (compatible lubricant: Grease) to the bearing if it is not pre-lubricated or if the application requires additional lubrication.
8. **Reassemble:** Reassemble the blower system components, ensuring all fasteners are tightened to the manufacturer's specifications.
9. **Test:** Before full operation, manually rotate the shaft to check for smooth movement and proper alignment.

## OPERATION

Once properly installed, the Carrier P461-2901 blower bearing facilitates the smooth rotation of the blower shaft. It is designed to operate within the specified parameters of the blower system it is installed in. Ensure the blower system is operated according to its own manual and within its design limits to prevent premature bearing wear.

## MAINTENANCE

- **Regular Inspection:** Periodically inspect the bearing for signs of wear, corrosion, or damage. Check for excessive play or unusual noise during operation.
- **Lubrication:** If the bearing is designed for re-lubrication, follow the blower system manufacturer's guidelines for lubrication intervals and type of grease. Over-lubrication can be as detrimental as under-lubrication.
- **Cleanliness:** Keep the area around the bearing clean and free from dust, dirt, and moisture, which can contaminate the bearing and reduce its lifespan.
- **Alignment Check:** Ensure the shaft and bearing housing remain properly aligned. Misalignment can lead to increased stress and premature failure.

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## TROUBLESHOOTING

If you experience issues with the blower bearing, consider the following common problems and solutions:

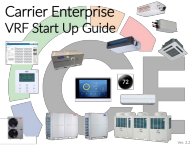
- **Excessive Noise or Vibration:**
  - **Cause:** Misalignment, insufficient lubrication, contamination, or wear.
  - **Solution:** Check alignment, apply appropriate lubricant, inspect for contamination, or replace the bearing if worn.
- **Overheating:**
  - **Cause:** Over-lubrication, under-lubrication, excessive load, or misalignment.
  - **Solution:** Adjust lubrication, reduce load if possible, or correct alignment.
- **Premature Failure:**
  - **Cause:** Improper installation, incorrect bearing selection, harsh operating conditions, or lack of maintenance.
  - **Solution:** Review installation procedures, ensure correct bearing for application, improve operating environment, and adhere to maintenance schedule.

For issues not resolved by these steps, consult a qualified technician or the blower system manufacturer's service manual.

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## WARRANTY AND SUPPORT

Warranty information for the Carrier P461-2901 Blower Bearing is typically provided by the original equipment manufacturer or the seller at the time of purchase. Please refer to your purchase documentation or contact the seller directly for details regarding warranty coverage and support services. For technical assistance or further inquiries, please contact your authorized Carrier parts distributor or the supplier from whom the bearing was purchased.



### [Carrier Enterprise VRF Start Up Guide](#)

A comprehensive guide for the startup process of Carrier Enterprise VRF systems, covering pre-planning, installation checklists, and operational procedures. This guide is essential for technicians and installers to ensure a successful and efficient VRF system startup.



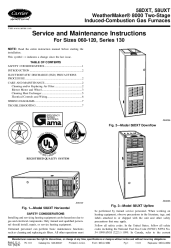
### [Carrier 42DH/42DV Series Fan Coil Air Conditioners Product Data](#)

Carrier's 42DH and 42DV Series Fan Coil Air Conditioners offer efficient and flexible climate control for various buildings. These direct drive units feature EC motors, robust construction, and multiple configurations for easy installation and optimized performance. This product data sheet details AHRI ratings, specifications, and options for models ranging from 600 to 3000 cfm.



### [Carrier Medium Temperature Vertical Refrigerators Service & Installation Manual](#)

This comprehensive manual provides essential information for the service and installation of Carrier Medium Temperature Vertical Refrigerators. It details handling procedures, electrical and refrigeration specifications, troubleshooting guides, maintenance procedures, and parts lists for various models, ensuring optimal performance and longevity.



### [Carrier WeatherMaker 8000 Series 58DXT 58UXT Gas Furnace Service and Maintenance Instructions](#)

Comprehensive service and maintenance instructions for Carrier WeatherMaker 8000 Series 58DXT and 58UXT two-stage induced-combustion gas furnaces (Sizes 060-120, Series 130). Covers safety, troubleshooting, filter replacement, blower motor maintenance, heat exchanger cleaning, and electrical controls.



### [Carrier 42DH, DV 06-30 Direct Drive Blower Fan Coils: Installation, Start-Up, and Service Instructions](#)

Comprehensive guide for the installation, start-up, and service of Carrier 42DH and 42DV Direct Drive Blower Fan Coil units. Covers safety considerations, pre-installation checks, unit placement, mixing box installation, electrical connections, ductwork, start-up procedures, and maintenance.



### [Carrier 59SC6A Comfort™ 96 Condensing Gas Furnace: Specifications & Features](#)

Detailed product data for the Carrier 59SC6A Comfort™ 96 Condensing Gas Furnace, including performance, specifications, installation flexibility, applications, certifications, dimensions, and accessories. High AFUE and ECM blower motor for energy efficiency.