ARCTIC CAT 1602-374

Arctic Cat OEM Drive Shaft Bearing 1602-374 Instruction Manual

Model: 1602-374 | Brand: ARCTIC CAT

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Arctic Cat OEM Drive Shaft Bearing, part number 1602-374. Adhering to these guidelines will help ensure the longevity and optimal performance of the bearing and associated vehicle components. Please read this manual thoroughly before proceeding with any installation or maintenance.

2. Product Overview

The Arctic Cat OEM Drive Shaft Bearing 1602-374 is a critical component designed for specific Arctic Cat snowmobile models. This ball bearing is manufactured from alloy steel, ensuring durability and reliable performance under various operating conditions. It is designed to support the drive shaft, allowing for smooth rotation and efficient power transfer.

- **Part Number:** 1602-374
- **Type:** Ball Bearing
- **Material:** Alloy Steel
- **Quantity:** Sold individually

Figure 2.1: Top view of the Arctic Cat OEM Drive Shaft Bearing 1602-374, showing its robust construction.

3. Compatible Vehicles

This drive shaft bearing (Part Number: 1602-374) is compatible with a range of Arctic Cat snowmobile models. It is crucial to verify fitment for your specific vehicle model and year before installation. The compatible vehicles include:

- **Bearcat Models:**
  - Bearcat 570 Long Track: 2007-2008
  - Bearcat 660 Turbo Wide Track Articulating: 2006-2008
  - Bearcat 660 Turbo Wide Track: 2006-2008
  - Bearcat 660 Wide Track: 2005-2008
- **Firecat Models:**
  - F5 Firecat 500 Sno-Pro: 2003-2004
  - F5 Firecat 500: 2003-2004
  - F6 Firecat 600 EFI: 2004
  - F6 Firecat 600 EXT EFI: 2004
  - F6 Firecat 600 Sno-Pro EFI: 2004
  - F6 Firecat 600 Sno-Pro: 2004
  - F6 Firecat 600: 2004-2006
  - F6 Firecat 600R EFI: 2005-2006
  - F7 Firecat 700 EFI: 2003-2004
  - F7 Firecat 700 EXT EFI: 2004
  - F7 Firecat 700 Sno-Pro EFI: 2003-2004
  - F7 Firecat 700 Sno-Pro: 2003-2004
  - F7 Firecat 700: 2003-2006
  - F7 Firecat 700R EFI: 2005-2006
- **Panther Models:**
  - Panther 370: 2007-2008

- Panther 570: 2007
- Panther 660 Touring: 2006-2008
- Panther 660 Trail: 2006-2007

- **Sabercat Models:**
  - Sabercat 500 EFI: 2006
  - Sabercat 500 LX EFI: 2006
  - Sabercat 500 LX: 2004-2006
  - Sabercat 500: 2004-2006
  - Sabercat 600 EFI: 2004-2005
  - Sabercat 600 EXT EFI: 2004-2005
  - Sabercat 600 LX EFI: 2004-2006
  - Sabercat 600 LX: 2004-2006
  - Sabercat 600: 2004-2006
  - Sabercat 700 EFI: 2004-2005
  - Sabercat 700 EXT EFI: 2004-2006
  - Sabercat 700 LX EFI: 2004-2006

- **Sno-Pro Models:**
  - Sno-Pro 440: 2003

- **T660 Models:**
  - T660 Touring: 2004-2008
  - T660 Turbo Limited: 2006-2007
  - T660 Turbo ST: 2005-2006
  - T660 Turbo Touring Limited: 2006-2007
  - T660 Turbo Touring: 2004-2007
  - T660 Turbo: 2004-2007

- **Z Models:**
  - Z 370 LX: 2007
  - Z 370: 2007
  - Z 570 LX: 2007
  - Z 570: 2007

4. Installation Guidelines

Installation of a drive shaft bearing requires specialized tools and mechanical expertise. It is highly recommended that installation be performed by a qualified service technician. Improper installation can lead to premature bearing failure, damage to the drive shaft, and potential safety hazards.

4.1. Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on a stable surface before beginning work.
- Disconnect the battery to prevent accidental starting or electrical shorts.
- Refer to your vehicle's specific service manual for detailed disassembly and reassembly procedures.

4.2. General Installation Steps (Consult Service Manual for Specifics)

1. **Preparation:** Clean the work area and gather all necessary tools and replacement parts.
2. **Disassembly:** Carefully remove components obstructing access to the drive shaft bearing. This may include track, suspension, and other drive train parts.
3. **Bearing Removal:** Use appropriate bearing pullers or presses to remove the old bearing from the drive shaft or housing. Avoid damaging the shaft or housing.
4. **Inspection:** Inspect the drive shaft, housing, and surrounding components for wear, damage, or corrosion. Replace any damaged parts.
5. **New Bearing Installation:**
    - Ensure the new bearing is clean and free of debris.
    - Apply a thin layer of compatible grease (as specified in Section 5.1) to the bearing surfaces if not pre-lubricated.
    - Using a bearing press or a suitable driver, carefully press the new bearing into its position. Ensure it is seated squarely and fully. **Do not hammer directly on the bearing races.**
6. **Reassembly:** Reinstall all removed components in reverse order of disassembly, ensuring all fasteners are tightened to the manufacturer's specified torque values.
7. **Final Check:** Rotate the drive shaft by hand to ensure smooth movement and no binding.

Figure 4.1: Side view of the bearing, showing manufacturer markings. Ensure correct orientation during installation.

5. Maintenance

Proper maintenance is crucial for extending the life of your drive shaft bearing and ensuring reliable vehicle operation. Regular inspection and lubrication are key.

5.1. Lubrication

This bearing type is typically pre-lubricated and sealed for life. However, if the bearing features a grease fitting or if the seals are compromised, it may require periodic lubrication. The compatible lubricant for this bearing is **Grease**. Always use a high-quality, manufacturer-recommended grease suitable for automotive or snowmobile applications and extreme temperatures.

5.2. Inspection

Periodically inspect the drive shaft bearing for signs of wear or damage, especially during routine vehicle service. Look for:

- **Excessive Play:** Check for any noticeable looseness or play in the drive shaft.
- **Unusual Noises:** Listen for grinding, humming, or squealing sounds coming from the drive shaft area.
- **Vibration:** Feel for unusual vibrations that may indicate bearing wear.
- **Seal Integrity:** Inspect the bearing seals for cracks, tears, or signs of grease leakage. Damaged seals can allow contaminants to enter and cause premature failure.
- **Corrosion:** Check for rust or corrosion on the bearing housing or exposed surfaces.

If any of these signs are present, the bearing should be inspected by a qualified technician and replaced if necessary.

Figure 5.1: Angled view of the bearing, highlighting the outer race and seal area for inspection.

6. Troubleshooting

If you experience issues related to the drive shaft, the bearing may be a contributing factor. Below are common symptoms and potential causes:

Symptom	Possible Cause	Action
Grinding or Humming Noise	Worn or damaged bearing races/balls, lack of lubrication, contamination.	Inspect bearing for wear. Replace if necessary. Ensure proper lubrication.
Excessive Vibration	Bearing wear, improper installation, unbalanced drive shaft.	Check bearing for play. Verify correct installation. Inspect drive shaft for balance.
Drive Shaft Binding or Sticking	Seized bearing, foreign object interference, severe misalignment.	Disassemble and inspect the drive shaft assembly. Replace bearing if seized.
Grease Leakage from Bearing	Damaged or deteriorated bearing seals.	Replace the bearing as seals are typically integral to the unit.

For persistent issues, consult a certified Arctic Cat service center or a qualified mechanic.

Figure 6.1: Close-up view of the bearing's inner race, where wear can often be observed.

7. Specifications

Detailed specifications for the Arctic Cat OEM Drive Shaft Bearing 1602-374:

Specification	Value
Brand	ARCTIC CAT
Item Model Number	1602-374
Bearing Number	1602-374
Bearing Type	Ball Bearing
Material	Alloy Steel
Specification Met	OEM
Compatible Lubricant	Grease
Product Dimensions (L x W x H)	25.4 x 15.2 x 2.5 Centimetres
Item Weight	181 g

Figure 7.1: Full perspective view of the drive shaft bearing, illustrating its complete form.

8. Support

For further assistance, technical support, or inquiries regarding this Arctic Cat OEM Drive Shaft Bearing 1602-374, please contact your authorized Arctic Cat dealer or refer to the official Arctic Cat service resources for your specific vehicle model.