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Sierra 18-2345-9

Sierra International 18-2345-9 Driveshaft Bearing E-Ring Instruction Manual

Comprehensive guide for installation and maintenance of your Sierra International Driveshaft Bearing E-Ring.

1. INTRODUCTION

1.1 Product Overview

The Sierra International 18-2345-9 Driveshaft Bearing E-Ring is a critical component designed for marine applications, specifically for securing driveshaft bearings. This E-ring is engineered to meet or exceed the quality of original equipment parts, ensuring reliable performance and durability.

Key features include:

- Sierra Drive Shaft Bearing E-Ring
- Meets or exceeds original equipment quality standards
- Sierra part number: 18-2345-9
- Interchangeable with Mercruiser part number: 53-815949

1.2 Intended Use

This E-ring is intended for use in marine driveshaft bearing assemblies to provide secure retention. It is specifically designed for compatibility with Mercruiser Alpha I & Gen II systems. Proper installation is essential for the safe and effective operation of your marine vessel's drive system.

2. SETUP

2.1 Unpacking

Carefully remove the E-rings from their packaging. Inspect the components for any signs of damage during transit. If any damage is observed, do not proceed with installation and contact your supplier.

2.2 Components Included

Your package should contain the following items:

- Sierra 18-2345-9 Trim Cylinder Anchor Pin E-Rings for Mercruiser Alpha I & Gen II - 2 Pack

2.3 Pre-Installation Check

Before installation, ensure you have the necessary tools and that the driveshaft bearing and surrounding components are clean and free of debris. Verify that the E-ring dimensions match the requirements of your specific application. The E-ring is made of metal and measures approximately 0.39 x 0.39 x 0.39 inches.



Figure 1: Sierra International 18-2345-9 Driveshaft Bearing E-Ring. This image shows the C-shaped metal clip, which is essential for securing components in a driveshaft assembly.

3. OPERATING INSTRUCTIONS

3.1 Installation of the Driveshaft Bearing E-Ring

The Sierra 18-2345-9 E-ring is designed to secure the driveshaft bearing in place. Installation typically involves the following steps. Always refer to your specific marine engine service manual for detailed, model-specific instructions and safety precautions.

1. **Preparation:** Ensure the driveshaft and bearing housing are clean and free of old grease or debris. Wear appropriate personal protective equipment, including safety glasses.
2. **Bearing Placement:** Carefully seat the driveshaft bearing into its designated position within the housing. Ensure it is fully seated and aligned correctly.

3. **E-Ring Orientation:** Identify the groove or channel where the E-ring will be seated. The E-ring is designed to snap into this groove, providing axial retention for the bearing.
4. **Installation:** Using appropriate E-ring pliers or a suitable tool, carefully compress the E-ring and position it over the shaft or pin. Release the E-ring into the groove, ensuring it expands fully and seats securely. A distinct "snap" may be heard or felt when it is correctly seated.
5. **Verification:** After installation, gently attempt to move the bearing axially to confirm that the E-ring is holding it firmly in place. The bearing should not have any significant axial play.
6. **Lubrication:** Apply compatible lubricant (e.g., marine-grade grease) as specified by your engine manufacturer to the bearing and surrounding components after the E-ring is securely installed.

Note: This E-ring is interchangeable with Mercruiser part number 53-815949. Always consult your official Mercruiser service manual for precise installation procedures for your specific model.

4. MAINTENANCE

4.1 Cleaning and Care

The Sierra 18-2345-9 E-ring is a durable metal component. During routine maintenance of your driveshaft assembly, inspect the E-ring for any signs of corrosion, deformation, or wear. If the E-ring appears damaged or compromised, it should be replaced immediately to prevent bearing failure.

When cleaning the driveshaft area, ensure that no harsh chemicals or abrasive materials come into contact with the E-ring, as this could compromise its integrity. A mild degreaser and soft brush are generally sufficient for cleaning surrounding components.

4.2 Storage

If storing spare E-rings, keep them in their original packaging or a clean, dry, and cool environment away from direct sunlight and corrosive substances. Proper storage helps maintain the material integrity and prevents premature degradation.

5. TROUBLESHOOTING

While the E-ring itself is a passive component, issues related to its installation or integrity can lead to problems with the driveshaft bearing. Below are common issues and potential solutions.

Problem	Possible Cause	Solution
Bearing has axial play after E-ring installation.	E-ring not fully seated in groove; incorrect E-ring size; damaged E-ring; worn bearing groove.	Re-check E-ring seating. Ensure correct part number (18-2345-9). Replace E-ring if damaged. Inspect bearing groove for wear.
E-ring difficult to install or remove.	Incorrect tool used; E-ring deformed; debris in groove.	Use appropriate E-ring pliers. Inspect E-ring for deformation. Clean groove thoroughly.
Premature bearing failure.	E-ring not securing bearing properly; improper lubrication; bearing defect; misalignment.	Verify E-ring installation. Ensure proper lubrication. Inspect bearing and alignment of components.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, it is recommended to consult a qualified marine mechanic or contact Sierra International customer support.

6. SPECIFICATIONS

The following are the technical specifications for the Sierra International 18-2345-9 Driveshaft Bearing E-Ring:

Attribute	Detail
Brand	Sierra
Model Number	18-2345-9
Manufacturer Part Number	SR18.2345.9
OEM Part Number (Interchangeable)	53-815949 (Mercruiser)
Material	Metal
Item Dimensions (L x W x H)	0.39 x 0.39 x 0.39 inches
Item Weight	0.353 ounces
Compatible Lubricant (for bearing)	Grease
UPC	808282166359
Date First Available	June 8, 2005

7. WARRANTY INFORMATION

Sierra International products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the 18-2345-9 Driveshaft Bearing E-Ring, please refer to the official warranty statement provided with your purchase or visit the [Sierra International website](#) or contact their customer service directly. Keep your proof of purchase for any warranty claims.

8. CUSTOMER SUPPORT

If you have any questions regarding the installation, maintenance, or troubleshooting of your Sierra International 18-2345-9 Driveshaft Bearing E-Ring, please contact Sierra International customer support. You can find contact information on their official website or through your product retailer. For additional resources and product information, visit the [Sierra Store on Amazon](#).