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HARKEN E2700

Harken MR 27mm Low-beam End Stops User Manual

Model: E2700

INTRODUCTION

The Harken MR 27mm Low-beam End Stops (Model E2700) are essential components designed to safely terminate the ends of runway or lifting beams. These end stops are crucial for preventing trolley runoff, ensuring operational safety in various marine and industrial applications. They are engineered to absorb shock loads, providing a reliable barrier when end controls are not in use. This manual provides detailed instructions for the proper installation, operation, and maintenance of your Harken End Stops.

PRODUCT OVERVIEW



Figure 1: Harken MR 27mm Low-beam End Stop. This image displays a single Harken MR 27mm Low-beam End Stop, characterized by its robust black construction and a central countersunk hole for mounting. The Harken brand name is subtly embossed on its top surface, indicating its authenticity and quality. This component is designed for durability and effective shock absorption.

The Harken MR 27mm Low-beam End Stops are constructed from ultra-lightweight yet durable material, ensuring longevity and performance in demanding environments. They are designed to be easily installed and are suitable for a wide range of runway beam sizes, specifically those compatible with 27mm systems. These end stops replace older models such as H1522 and H1522A, offering improved functionality for modern switch systems.

INSTALLATION AND SETUP

Proper installation of the Harken MR 27mm Low-beam End Stops is critical for safety and optimal performance. These end stops are designed for straightforward installation to suit almost every compatible runway beam size.

Installation Steps:

1. **Identify Mounting Location:** Determine the precise location at the end of the runway or lifting beam where the end stops are required. Ensure the surface is clean and free from obstructions.

2. **Position the End Stop:** Place the Harken MR 27mm Low-beam End Stop firmly against the end of the beam. Ensure it is aligned correctly to prevent any trolley runoff.
3. **Secure the End Stop:** Use appropriate fasteners (not included) through the central mounting hole to secure the end stop to the beam. Ensure the fasteners are suitable for the beam material and provide a secure, tight fit.
4. **Verify Installation:** After securing, gently test the end stop by attempting to move a trolley or load towards it to confirm it is firmly in place and capable of absorbing shock loads.

Note: End stops should always be installed when end controls are not actively used to absorb potential shock loads and prevent unintended movement beyond the beam's intended operational area.

OPERATING PRINCIPLES

The Harken MR 27mm Low-beam End Stops operate passively as a safety mechanism. Their primary function is to absorb kinetic energy and shock loads from trolleys or other moving components that reach the end of a beam. By providing a physical barrier, they prevent overtravel and potential accidents.

- **Shock Absorption:** The robust design and material composition allow the end stops to effectively absorb impacts, reducing stress on the beam structure and the moving equipment.
- **Runoff Prevention:** They act as a terminal point, physically stopping trolleys or loads from running off the end of the beam, which is crucial for safety in lifting and material handling systems.

MAINTENANCE

Regular maintenance ensures the continued effectiveness and longevity of your Harken MR 27mm Low-beam End Stops.

- **Visual Inspection:** Periodically inspect the end stops for any signs of wear, cracks, deformation, or damage. Check for loose fasteners.
- **Cleaning:** Keep the end stops clean from dirt, debris, and corrosive substances. A mild soap and water solution can be used, followed by thorough rinsing and drying.
- **Fastener Check:** Ensure all mounting fasteners remain tight. Re-tighten if necessary, but do not overtighten.
- **Replacement:** If an end stop shows significant signs of wear, damage, or has absorbed a severe impact, it should be replaced immediately to maintain safety standards.

TROUBLESHOOTING

While Harken End Stops are designed for reliability, minor issues can sometimes arise. Here are common troubleshooting tips:

- **End Stop Appears Loose:**
Solution: Check the mounting fasteners. They may have loosened over time due to vibrations or impacts. Re-tighten them securely. If the mounting hole or the end stop itself is damaged, replacement may be necessary.
- **Reduced Shock Absorption:**
Solution: This could indicate material fatigue or damage from repeated heavy impacts. Inspect the end stop for visible cracks or deformation. If compromised, replace the unit immediately.
- **Trolley Overtravels Past End Stop:**
Solution: Verify that the end stop is correctly positioned at the absolute end of the beam and that its mounting is secure. Ensure the end stop is the correct size (27mm) for the beam system. If the trolley's momentum is exceptionally high, consider additional braking mechanisms or a more robust end-stop solution if available for your specific application.

SPECIFICATIONS

Attribute	Detail
Model Number	E2700
Brand	HARKEN
Size	27mm
Item Weight	Approximately 1 Pound (0.45 kg)
Material	Ultra-lightweight, durable composite
Replaces	H1522, H1522A

WARRANTY INFORMATION

Harken products are manufactured to high standards of quality and durability. For specific warranty terms and conditions applicable to the MR 27mm Low-beam End Stops (E2700), please refer to the official Harken website or contact Harken customer service directly. Warranty coverage typically addresses manufacturing defects and material flaws under normal use.

CUSTOMER SUPPORT

Should you require further assistance, have questions regarding installation, operation, or maintenance, or need to report an issue, please contact Harken customer support. You can find contact information and additional resources on the official Harken website:

[Visit Harken Official Website](#)

Please have your product model number (E2700) and any relevant purchase details ready when contacting support.

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