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Hillman 830602

Hillman 830602 Stainless Steel Fender Washer Instruction Manual

Model: 830602

INTRODUCTION

This manual provides essential information for the proper use and understanding of the Hillman 830602 Stainless Steel 5/32 x 7/8-Inch Fender Washer. Please read these instructions carefully before installation and use.

PRODUCT OVERVIEW

The Hillman 830602 is a stainless steel fender washer designed for applications requiring a larger bearing surface. Its construction from stainless steel provides enhanced corrosion resistance, making it suitable for various environments. Key features include:

- Larger surface area than standard flat washers
- Increased outer diameter to disperse pressure
- Commonly used in sheet metal work, plumbing, and electrical applications
- Prevents a nut, bolt, or screw from pulling through the material
- Can also be used as a spacer



Figure 1: Top view of the Hillman 830602 Stainless Steel Fender Washer, showing its flat, circular design with a central hole.

SPECIFICATIONS

Attribute	Detail
Brand	Hillman
Model Number	830602
Material	Stainless Steel
Size	5/32" x 7/8"
Washer Type	Flat, Fender
Outside Diameter	0.31 Inches
Item Thickness	0.17 Inches
Fastener Size	M4
Exterior Finish	Ultra-Corrosion-Resistant
Number of Pieces	100

SETUP AND INSTALLATION

Fender washers are used to distribute the load of a threaded fastener, such as a screw or nut, over a larger area. This helps prevent damage to the material being fastened and provides a more secure connection.

1. **Select the Correct Size:** Ensure the washer's inner diameter matches the diameter of the bolt or screw being used. The outer diameter should be appropriate for the application to provide sufficient load distribution without interfering with other components.
2. **Placement:** Place the fender washer directly under the head of the bolt or screw, or under the nut, depending on the application. The washer should be flush against the material surface.
3. **Tightening:** Tighten the fastener according to the manufacturer's specifications for the bolt/screw and the material being joined. Avoid over-tightening, which can deform the washer or damage the material.



Figure 2: Angled view of the Hillman 830602 Stainless Steel Fender Washer, highlighting its thickness and flat profile.

OPERATING PRINCIPLES

The primary function of this fender washer is to increase the bearing surface under a fastener. This is particularly useful in applications involving soft materials, thin sheet metal, or oversized holes, where a standard washer might pull through or cause localized stress.

By distributing the pressure over a wider area, the washer:

- Reduces the risk of material deformation or damage.
- Enhances the stability and longevity of the fastened joint.
- Provides a clean, finished appearance by covering larger holes or imperfections.

MAINTENANCE

Hillman 830602 fender washers are made from stainless steel, offering inherent resistance to corrosion. Minimal maintenance is required for these components.

- **Inspection:** Periodically inspect fastened joints for any signs of loosening or wear.
- **Cleaning:** If exposed to harsh environments or contaminants, clean the washers with a mild detergent and water, then rinse thoroughly and dry to maintain their finish and corrosion resistance.
- **Storage:** Store unused washers in a dry environment to prevent potential surface discoloration, although stainless

steel is highly resistant to rust.

TROUBLESHOOTING

While fender washers are simple components, issues can arise from improper selection or installation.

Problem	Possible Cause	Solution
Washer pulls through material	Washer outer diameter is too small for the application, or material is too soft.	Use a washer with a larger outer diameter or reinforce the material.
Fastener loosens over time	Insufficient tightening, or vibration in the application.	Ensure proper torque during installation. Consider using a lock washer in conjunction with the fender washer for high-vibration applications.
Washer deforms during tightening	Over-tightening of the fastener.	Tighten fasteners to recommended specifications.

WARRANTY AND SUPPORT

For information regarding product warranty or technical support, please refer to the official Hillman website or contact their customer service department. Keep your purchase receipt for warranty claims.

Hillman Website: www.hillmangroup.com