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Serpent 110438

Serpent #110438 Shim 2.5x6x0.5 Instruction Manual

Model: #110438

INTRODUCTION

This manual provides essential information for the proper use and installation of Serpent #110438 Shims. These shims are precision components designed for specific applications in model racing vehicles, ensuring optimal performance and longevity.



Image: Packaging of Serpent #110438 Shims. This image displays the product packaging, clearly showing the model number 110438, the dimensions 2.5x6x0.5, and indicating a pack of 10 shims. The Serpent brand logo is also visible.

PRODUCT OVERVIEW

The Serpent #110438 shims are small, flat, ring-shaped components used to fill small gaps or adjust spacing between parts. They are crucial for achieving precise fitment and reducing play in mechanical assemblies, particularly in high-performance model racing applications. Each shim measures 2.5mm inner diameter, 6mm outer diameter, and 0.5mm thickness.



Image: Close-up view of Serpent 2.5x6x0.5mm shims. This image provides a detailed look at several individual shims, highlighting their thin, circular form factor and metallic finish.

SETUP AND INSTALLATION

Proper installation of shims is critical for optimal performance. Follow these steps for effective setup:

1. **Identify Application:** Determine the specific area in your model where precise spacing or reduced play is

required. Common applications include axle assemblies, gearboxes, and suspension pivots.

2. **Clean Components:** Ensure all mating surfaces of the components are clean and free from debris, grease, or old lubricants.
3. **Placement:** Carefully place the shim(s) between the components to achieve the desired spacing. Shims are typically used to eliminate excessive axial or radial play.
4. **Test Fit:** After initial placement, reassemble the components and check for proper fit and function. Adjust the number or thickness of shims as necessary to achieve optimal performance without binding.
5. **Secure Assembly:** Once the correct shim configuration is achieved, secure the assembly according to your model's specific instructions.

OPERATING CONSIDERATIONS

Shims are passive components that enhance the performance and longevity of your model by ensuring correct tolerances. Once installed correctly, they require no active operation. Their primary function is to maintain precise spacing and reduce wear on moving parts.

- **Reduced Friction:** Proper shimming can reduce unnecessary friction by preventing components from rubbing incorrectly.
- **Improved Gear Mesh:** In gearboxes, shims are critical for setting the correct gear mesh, leading to smoother operation and extended gear life.
- **Enhanced Durability:** By minimizing play, shims help distribute loads more evenly, reducing stress on components and improving overall durability.

MAINTENANCE

Serpent shims are designed for durability. Regular maintenance involves inspecting the shims during routine disassembly of your model.

- **Visual Inspection:** Check shims for signs of wear, bending, or corrosion. Replace any damaged shims immediately.
- **Cleanliness:** Ensure shims remain clean. Dirt or grit can compromise their effectiveness and cause premature wear to surrounding components.
- **Re-evaluation:** If you notice new play or binding in an area where shims are used, re-evaluate the shimming setup.

TROUBLESHOOTING

Most issues related to shims stem from incorrect installation or selection. Consider the following if you encounter problems:

- **Excessive Play:** If there is still too much play after shimming, ensure you have used the correct thickness and quantity of shims. Consider adding an additional shim or a slightly thicker one.
- **Binding/Stiffness:** If components feel stiff or bind after shimming, you may have used too many shims or shims that are too thick. Remove one or more shims, or use thinner ones, until smooth operation is achieved.
- **Unusual Noise:** Grinding or clicking noises can indicate incorrect gear mesh, which shims are often used to correct. Re-check your shimming for gearboxes.

SPECIFICATIONS

Feature	Detail
Model Number	#110438
Dimensions	2.5x6x0.5mm (Inner Diameter x Outer Diameter x Thickness)
Quantity	10 per pack
Brand	Serpent
Item Weight	8 ounces (packaging included)
Product Dimensions (Packaging)	2.5 x 3.5 x 0.25 inches
Recommended Age	15 years and up

WARRANTY AND SUPPORT

For specific warranty information or technical support regarding Serpent #110438 shims, please refer to the official Serpent website or contact your authorized Serpent dealer. Product support details are typically provided with the original purchase documentation.