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Lancer Tactical M115

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Model: M115

PRODUCT OVERVIEW

The Lancer Tactical M115 Compression Spring is a high-quality component designed for various mechanical applications. Constructed from durable 304 stainless steel, it offers excellent mechanical properties, including wear resistance, low-temperature resistance, corrosion resistance, and high toughness. This open-coil helical spring is engineered to absorb shock and provide stable force, high plasticity, and full elasticity, making it suitable for a wide range of uses from home repairs to industrial projects.



Image: Lancer Tactical M115 Compression Spring. This image displays the silver-toned, helical compression spring, showcasing its coiled structure and metallic finish.

INTENDED USE AND APPLICATIONS

This compression spring is versatile and can be applied in numerous scenarios. Its robust construction makes it ideal for:

- Shop and home repairs
- DIY projects
- Appliances
- Lawnmowers
- Electronics
- Applications requiring optimal high-torque performance

The spring's design ensures stable force and full elasticity, crucial for absorbing shock effectively in various mechanical systems.

SPECIFICATIONS

Specification	Detail
Model Number	M115
Material	Stainless Steel (304 grade), Alloy Steel
Color	Silver
Finish Type	Silver Tone
Type	Compression Spring (Open-coil helical)
Key Characteristics	Wear resistance, low-temperature resistance, corrosion resistance, thermal expansion, thermal insulation, high toughness, high plasticity, full elasticity.

INSTALLATION AND OPERATING GUIDELINES

The Lancer Tactical M115 Compression Spring is designed for straightforward integration into compatible systems. Proper installation is crucial for optimal performance and longevity.

Installation

- Identify Application:** Determine the specific mechanism or device where the compression spring will be used. Ensure the spring's dimensions and force rating (implied by M115, though specific force isn't given) are appropriate for the intended load and travel.
- Prepare Area:** Ensure the installation area is clean and free of debris. If replacing an old spring, remove it carefully.
- Position Spring:** Place the compression spring into its designated housing or between the components it is intended to separate or provide resistance against. Ensure it is seated correctly and not binding.
- Secure Components:** Reassemble the surrounding components, ensuring the spring is properly compressed or allowed to expand as per the design of the mechanism. Avoid over-compressing the spring beyond its design limits, as this can lead to premature failure.
- Test Functionality:** After installation, gently test the mechanism to ensure the spring functions as expected, providing the necessary resistance or return force.

Operating Considerations

Once installed, the spring operates passively within the system. Key considerations include:

- Load Management:** Do not subject the spring to loads exceeding its design capacity. Excessive compression or tension can lead to permanent deformation or breakage.
- Environmental Factors:** While stainless steel offers excellent corrosion resistance, prolonged exposure to harsh chemicals or extreme temperatures outside typical operating ranges may affect performance.
- Dynamic vs. Static Use:** The spring is designed for both static (constant load) and dynamic (repeated compression/expansion) applications. Ensure the application's cycle life requirements are met by the spring's material properties.

MAINTENANCE AND CARE

The Lancer Tactical M115 Compression Spring requires minimal maintenance due to its durable stainless steel construction. However, periodic inspection can help ensure its longevity and optimal performance.

- **Regular Inspection:** Periodically inspect the spring for any signs of wear, fatigue, corrosion, or deformation. Look for cracks, pitting, or changes in coil spacing.
- **Cleaning:** If exposed to dirt or contaminants, clean the spring with a mild cleaner and a soft cloth. Ensure it is thoroughly dried to prevent any potential surface degradation, although stainless steel is highly resistant.
- **Lubrication (Optional):** In some applications, especially those with high friction or specific environmental conditions, a light application of appropriate lubricant may be beneficial. Consult the equipment manufacturer's guidelines if the spring is part of a larger assembly.
- **Storage:** If storing spare springs, keep them in a dry, clean environment away from corrosive agents and extreme temperatures.

TROUBLESHOOTING

While the M115 Compression Spring is a robust component, issues can arise, often related to improper installation or application conditions.

Problem	Possible Cause	Solution
Spring not providing sufficient force/resistance	Incorrect spring chosen for application; Spring fatigue/deformation; Improper seating.	Verify spring specifications against application requirements; Inspect for permanent deformation and replace if necessary; Re-install spring ensuring proper seating.
Spring breaking prematurely	Over-compression/over-extension; Excessive dynamic loading; Material defect (rare).	Ensure spring operates within its design limits; Reduce load or cycle frequency if possible; Replace spring.
Unusual noise or binding	Improper alignment; Debris in spring housing; Spring rubbing against components.	Check alignment of components; Clean housing; Ensure adequate clearance around the spring.

WARRANTY AND SUPPORT

For specific warranty information regarding the Lancer Tactical M115 Compression Spring, please refer to the original purchase documentation or contact Lancer Tactical directly through their official website or authorized distributors. As a component, warranty terms may vary based on the final product it is integrated into.

For technical support or further inquiries, please visit the [Lancer Tactical Store on Amazon](#) or their official corporate website.

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