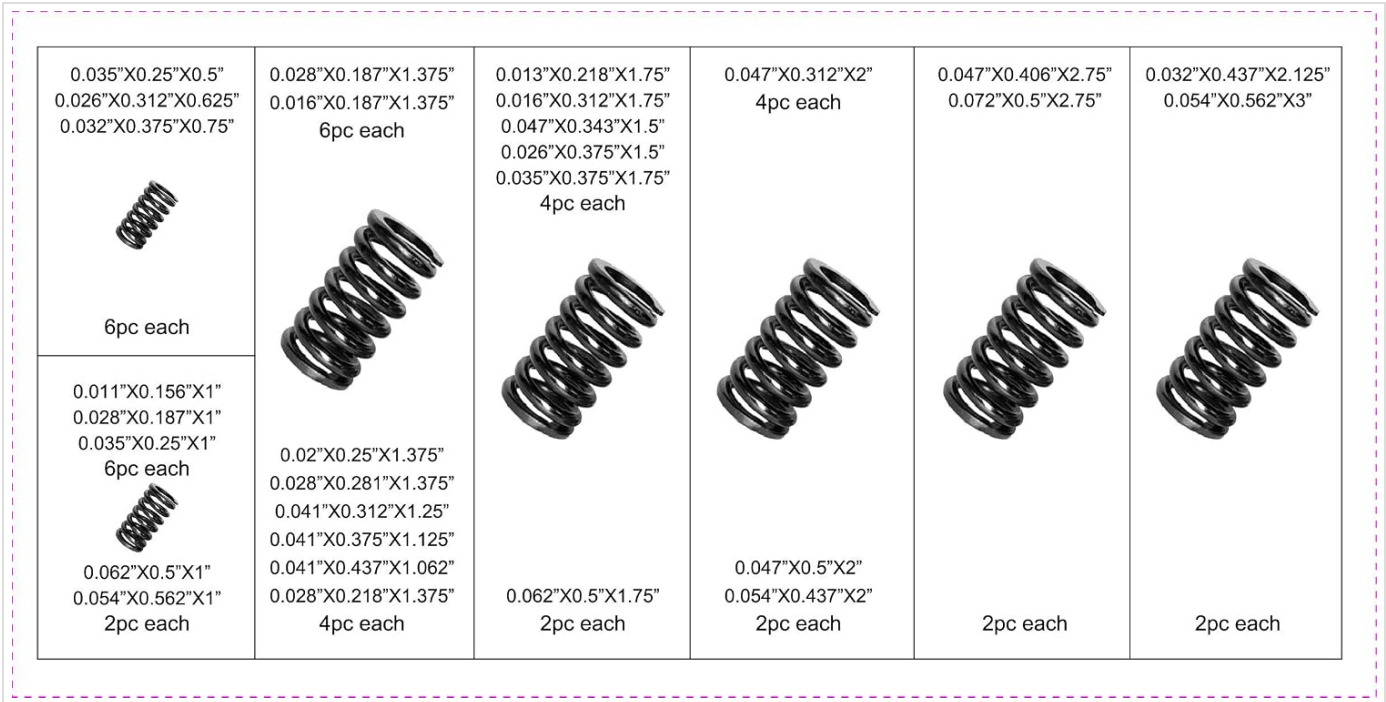
SWORDFISH 32030

SWORDFISH 32030 114pc Black Oxide Finish Compression Spring Assortment

Model: 32030 | Brand: SWORDFISH

Introduction

The SWORDFISH 32030 Compression Spring Assortment provides a comprehensive collection of 114 black oxide finish compression springs in 29 different sizes. This assortment is designed for a wide range of applications, from repairs and maintenance to prototyping and custom projects, offering durability and versatility for various mechanical needs.



The image displays the complete Swordfish 32030 compression spring assortment, neatly arranged in transparent storage cases, showcasing the variety of sizes.

Product Features

- **Black Oxide Finish:** Provides extra strength and corrosion resistance.
- **Extensive Assortment:** Includes 29 distinct sizes of compression springs to suit diverse requirements.

- **Durable Construction:** Made from high-quality spring steel for reliable performance.
- **Organized Storage:** Comes in a robust polypropylene (PP) storage case with an identification chart inside the lid for quick and easy selection.

Setup

Upon receiving your SWORDFISH 32030 spring assortment, ensure all 114 pieces are present and organized within their respective compartments in the storage case. The clear case allows for easy visual inspection.

The inside of the case lid features a detailed chart. This chart is crucial for identifying each spring by its dimensions (wire diameter, outer diameter, and length) and the quantity of each size included. Familiarize yourself with this chart before use to ensure correct spring selection for your application.

This diagram illustrates the different dimensions (wire diameter x outer diameter x length) and quantities for each of the 29 types of compression springs included in the assortment. Use this chart for quick identification and selection.



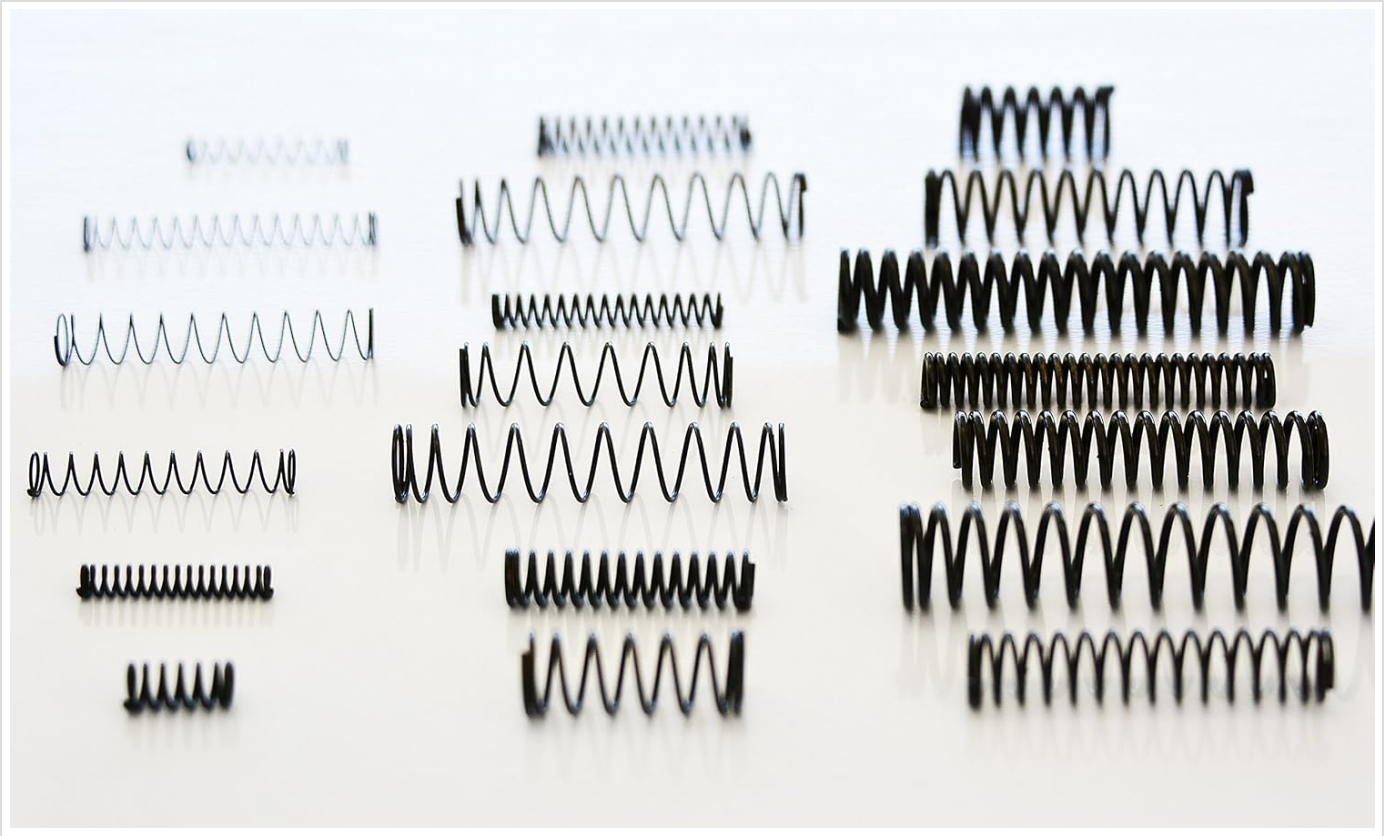
This image highlights the clear plastic storage case for the springs, featuring a detailed chart on the inside of the lid. This chart helps in quickly identifying the dimensions and quantities of each spring type.

Operating Instructions

Compression springs are designed to resist compressive forces and return to their original shape when the force is removed. Proper selection is critical for optimal performance and longevity.

1. **Identify Requirements:** Determine the necessary load capacity, working length, and outer diameter for your application.
2. **Select Spring:** Refer to the identification chart in the case lid to find a spring that matches or closely approximates your required specifications. Consider the wire diameter, outer diameter, and free length.

3. **Test Fit:** Before final installation, perform a test fit to ensure the spring compresses correctly within the available space and provides the desired resistance.
4. **Installation:** Carefully install the selected spring, ensuring it is not over-compressed beyond its solid height, which can lead to permanent deformation.



Different sizes of black oxide compression springs are shown spread out, demonstrating the range of diameters and lengths available in the Swordfish 32030 kit.

Maintenance

To ensure the longevity and performance of your compression springs, follow these maintenance guidelines:

- **Storage:** Always store springs in their original polypropylene case in a dry environment to prevent corrosion and tangling. Keep the lid securely closed.
- **Cleaning:** If springs become dirty, gently wipe them with a clean, dry cloth. Avoid harsh chemicals that could damage the black oxide finish.
- **Inspection:** Periodically inspect springs for signs of wear, fatigue, or permanent deformation (e.g., shortened free length, uneven coils). Replace any damaged springs to maintain optimal performance.

Troubleshooting

Here are some common issues and solutions when working with compression springs:

- **Spring Does Not Fit:** Double-check the required dimensions against the spring chart. Ensure you are measuring correctly (wire diameter, outer diameter, free length). Slight variations may occur, requiring a slightly different size.
- **Springs Tangled:** This can occur if springs are not stored properly. Carefully untangle them to avoid bending or deforming the coils. Always return springs to their designated compartments after use.
- **Loss of Spring Tension:** If a spring loses its ability to return to its original length or provides insufficient force, it may be fatigued or permanently deformed due to excessive compression or an unsuitable application. Replace the spring with a new one of the correct specifications.

- **Corrosion:** While the black oxide finish offers protection, prolonged exposure to moisture or harsh environments can lead to corrosion. Ensure proper storage in a dry place.

Specifications

Specification	Detail
Model Number	32030
Item Weight	0.01 ounces (total assortment weight may vary)
Product Dimensions (Case)	8.25 x 4.25 x 1.25 inches
Material	Spring Steel with Black Oxide Finish
Item Package Quantity	1 (containing 114 springs)
Number of Spring Sizes	29
Color	Black
Manufacturer	Swordfish Tools Inc

Warranty Information

This SWORDFISH product is covered by a manufacturer's warranty for 30 days from the date of purchase. Please retain your proof of purchase for any warranty claims.

Support

For further assistance, questions, or to report any issues with your SWORDFISH 32030 Compression Spring Assortment, please contact Swordfish Tools Inc. customer support. Refer to the packaging or the official Swordfish website for contact details.

You can also visit the SWORDFISH Store on Amazon for more product information and resources.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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