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> YATO YT-25472 Suspension Spring Compressor User Manual

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YATO YT-25472 Suspension Spring Compressor User Manual

Model: YT-25472

1. INTRODUCTION

The YATO YT-25472 Suspension Spring Compressor is a specialized tool designed for the safe and efficient removal and installation of coil springs on automotive suspension systems. This manual provides essential information for proper use, maintenance, and safety to ensure reliable operation and prolong the life of the tool.

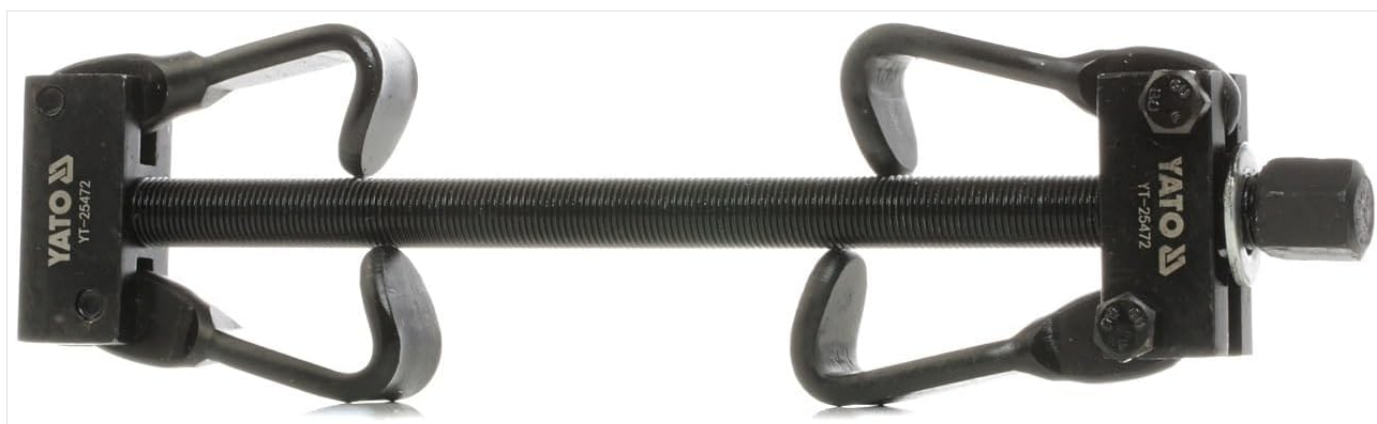


Figure 1: Overview of the YATO YT-25472 Suspension Spring Compressor. This image shows the complete tool, featuring the central threaded rod and the two opposing compression jaws.

2. SAFETY INFORMATION

WARNING: Coil springs are under extreme compression and can cause severe injury or death if not handled properly. Always follow these safety guidelines.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work.
- Inspect the spring compressor for any damage, wear, or deformation before each use. Do not use if damaged.
- Ensure the compression jaws are securely seated on the spring coils before applying tension.
- Apply tension gradually and evenly to both sides of the spring.
- Never use an impact wrench or power tools with this spring compressor, as it can cause sudden failure and injury.

Use only hand tools.

- Keep hands and other body parts clear of the spring and compressor during operation.
- Do not exceed the maximum compression capacity of the tool.
- If the spring compressor slips or makes unusual noises, stop immediately and re-evaluate the setup.
- Store the tool in a clean, dry place away from children.

3. COMPONENTS AND PARTS

The YATO YT-25472 Suspension Spring Compressor consists of the following main components:

1. **Central Threaded Rod:** The main shaft that provides the compression force.
2. **Upper Compression Jaw Assembly:** Includes two hooks that grip the upper coils of the spring.
3. **Lower Compression Jaw Assembly:** Includes two hooks that grip the lower coils of the spring.
4. **Hex Operating Nut:** Located at the end of the threaded rod, used with a wrench to apply compression.



Figure 2: Side view of the spring compressor, highlighting the central threaded rod and the two jaw assemblies.



Figure 3: Angled view showing the design of the compression jaws, designed to securely grip spring coils.

4. SETUP

Before using the spring compressor, ensure you have all necessary tools and that the work area is safe and clear.

1. **Prepare the Vehicle:** Lift the vehicle and support it securely on jack stands. Remove the wheel and any components obstructing access to the suspension spring.
2. **Inspect the Spring:** Ensure the spring is clean and free of excessive rust or debris that could interfere with the compressor's grip.
3. **Position the Compressor:**
 - Place one compression jaw assembly on the top coil of the spring and the other on the bottom coil.
 - Ensure the hooks of both jaws are securely seated around the spring coils and are directly opposite each other for even compression.
 - The central threaded rod should be aligned with the center axis of the spring.
4. **Initial Tightening:** Hand-tighten the hex operating nut until the jaws are snug against the spring, ensuring they do not slip.

5. OPERATING INSTRUCTIONS

Follow these steps carefully to safely compress and decompress suspension springs.

1. **Apply Compression:** Using a suitable wrench (not an impact wrench), slowly and gradually turn the hex operating nut clockwise to compress the spring.
2. **Even Compression:** Continuously check that both compression jaws are moving evenly and that the spring is compressing uniformly. If one side is compressing faster, adjust the position of the jaws or the application of force.

- 3. **Compress to Required Length:** Continue compressing the spring until it is sufficiently compressed to allow for removal or installation from the suspension assembly. Do not over-compress.
- 4. **Remove/Install Spring:** Once compressed, carefully remove the spring from the vehicle or install the new/repaired spring.
- 5. **Decompress Spring:** After the spring is securely in place (or removed and ready for decompression), slowly and gradually turn the hex operating nut counter-clockwise to release the tension.
- 6. **Remove Compressor:** Once all tension is released and the spring is fully decompressed, remove the spring compressor from the spring.



Figure 4: Detail of the threaded rod and hex operating nut, which is used to apply and release compression.

6. MAINTENANCE

Proper maintenance will ensure the longevity and safe operation of your YATO YT-25472 Spring Compressor.

- **Cleaning:** After each use, clean the tool to remove dirt, grease, and debris. Use a wire brush for the threaded rod if necessary.
- **Lubrication:** Periodically apply a light coat of grease or oil to the threaded rod to ensure smooth operation and prevent rust.
- **Inspection:** Regularly inspect the jaws, hooks, and threaded rod for signs of wear, cracks, bends, or other damage. Pay close attention to the threads for stripping.
- **Storage:** Store the spring compressor in a dry environment to prevent corrosion.

7. TROUBLESHOOTING

Common issues and their potential solutions.

Problem	Possible Cause	Solution
Jaws slipping on spring	Improper seating; Worn jaws; Spring too greasy	Ensure hooks are fully engaged; Inspect and replace worn jaws; Clean spring and jaws thoroughly.
Difficulty turning hex nut	Lack of lubrication; Damaged threads; Excessive force applied	Lubricate threaded rod; Inspect threads for damage; Ensure even compression.

Problem	Possible Cause	Solution
Uneven spring compression	Jaws not opposite each other; Uneven application of force	Reposition jaws to be directly opposite; Apply force gradually and evenly.

8. SPECIFICATIONS

Brand	YATO
Model Number	YT-25472
Item Weight	1.33 Kilograms
Package Dimensions	35.9 x 12.1 x 4.4 cm
Manufacturer	Yato

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your YATO YT-25472 Suspension Spring Compressor, please contact your authorized YATO dealer or visit the official YATO website. Keep your proof of purchase for warranty claims.
Note: Warranty terms may vary by region and retailer.

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