Yato YT-2547

YATO YT-2547 Spring Compressor Instruction Manual

Model: YT-2547

Introduction

The YATO YT-2547 Spring Compressor set is designed for safely compressing coil springs on automotive suspension systems. This tool is essential for removing and installing shock absorbers, struts, and other suspension components that require the coil spring to be compressed. This manual provides important information regarding the safe operation, maintenance, and specifications of your spring compressor set.

Always read and understand all instructions and safety warnings before using this product. Improper use can lead to serious injury or damage to the vehicle.



Image: The YATO YT-2547 Spring Compressor set, showing both compressors and the product packaging.

Safety Information

WARNING: Coil springs are under extreme tension. Improper use of spring compressors can result in severe personal injury, including loss of limbs, or death, and property damage. Always exercise extreme caution.

- **Wear Personal Protective Equipment (PPE):** Always wear ANSI-approved safety glasses, heavy-duty gloves, and other appropriate protective gear when using this tool.
- **Inspect Tools Before Use:** Before each use, inspect the spring compressors for any signs of damage, wear, or deformation. Do not use if any part is bent, cracked, or otherwise compromised.
- **Secure the Vehicle:** Ensure the vehicle is properly supported on jack stands on a level surface. Engage the parking brake and block the wheels.
- **Consult Vehicle Manual:** Always refer to the vehicle manufacturer's service manual for specific procedures and warnings related to spring compression and suspension work.
- **Proper Placement:** Ensure the compressor jaws are securely seated on the spring coils and are evenly spaced. The spring must be gripped firmly and symmetrically.
- **Even Compression:** When using two compressors, tighten each compressor screw alternately and evenly, a few turns at a time, to ensure the spring compresses straight and without binding.
- **Do Not Over-Compress:** Compress the spring only enough to relieve tension on the strut or shock absorber assembly.
- **Keep Clear:** Keep hands, face, and body clear of the spring and compressor during compression and decompression.
- **Avoid Impact Tools:** Do not use impact wrenches or air tools with these spring compressors. Use hand tools only to maintain control and prevent over-tightening or sudden failure.
- **Professional Use:** This tool is intended for use by qualified and experienced individuals. If you are unsure about any procedure, seek professional assistance.

Package Contents

Verify that all items are present and undamaged upon opening the package. If any parts are missing or damaged, contact your supplier immediately.

- 2 x YATO YT-2547 Coil Spring Compressors



Image: The two YATO YT-2547 Spring Compressors included in the set.

Setup

1. **Prepare the Vehicle:** Lift the vehicle using a suitable jack and support it securely on jack stands. Remove the wheel from the suspension assembly you intend to work on.
2. **Access the Spring:** Depending on the vehicle, you may need to disconnect other suspension components (e.g., sway bar links, brake lines, steering knuckles) to gain access to the coil spring and strut assembly. Refer to your vehicle's service manual for specific disassembly instructions.
3. **Inspect the Spring:** Ensure the coil spring is clean and free of excessive rust or damage that could compromise its integrity during compression.

Operating Instructions

CAUTION: Always follow safety guidelines. Never work under a vehicle supported only by a jack.

1. **Position Compressors:** Place one spring compressor on each side of the coil spring, directly opposite each other. Ensure the jaws of each compressor are securely hooked onto the spring coils. The hooks should be positioned to grip as many coils as possible, typically near the top and bottom of the spring, avoiding the very ends.
2. **Align Evenly:** Make sure both compressors are aligned parallel to each other and perpendicular to the spring coils. The threaded rods should be straight and not at an angle.
3. **Initial Tightening:** Using a 21mm wrench or socket (1/2" drive), hand-tighten the nuts on both compressors until the jaws are snug against the spring coils. Do not overtighten one side before the other.
4. **Compress the Spring:** Alternately tighten the nuts on each compressor, turning each nut 1-2 full rotations at a time. Continue this process, ensuring the spring compresses evenly and straight. Observe the spring carefully for any signs of bending or uneven compression.
5. **Compress to Required Length:** Compress the spring only until enough tension is relieved to safely remove the top nut of the strut assembly or to allow for removal/installation of other components. Do not compress the spring more than necessary.
6. **Remove/Install Components:** Once the spring is safely compressed, proceed with removing or installing the strut,

shock absorber, or other suspension parts as per your vehicle's service manual.

7. **Decompress the Spring:** After the new or serviced components are securely in place, slowly and alternately loosen the nuts on each spring compressor, 1-2 full rotations at a time, until the spring returns to its uncompressed state. Ensure the spring seats correctly in its mounts.
8. **Remove Compressors:** Once the spring is fully decompressed and seated, remove the spring compressors.

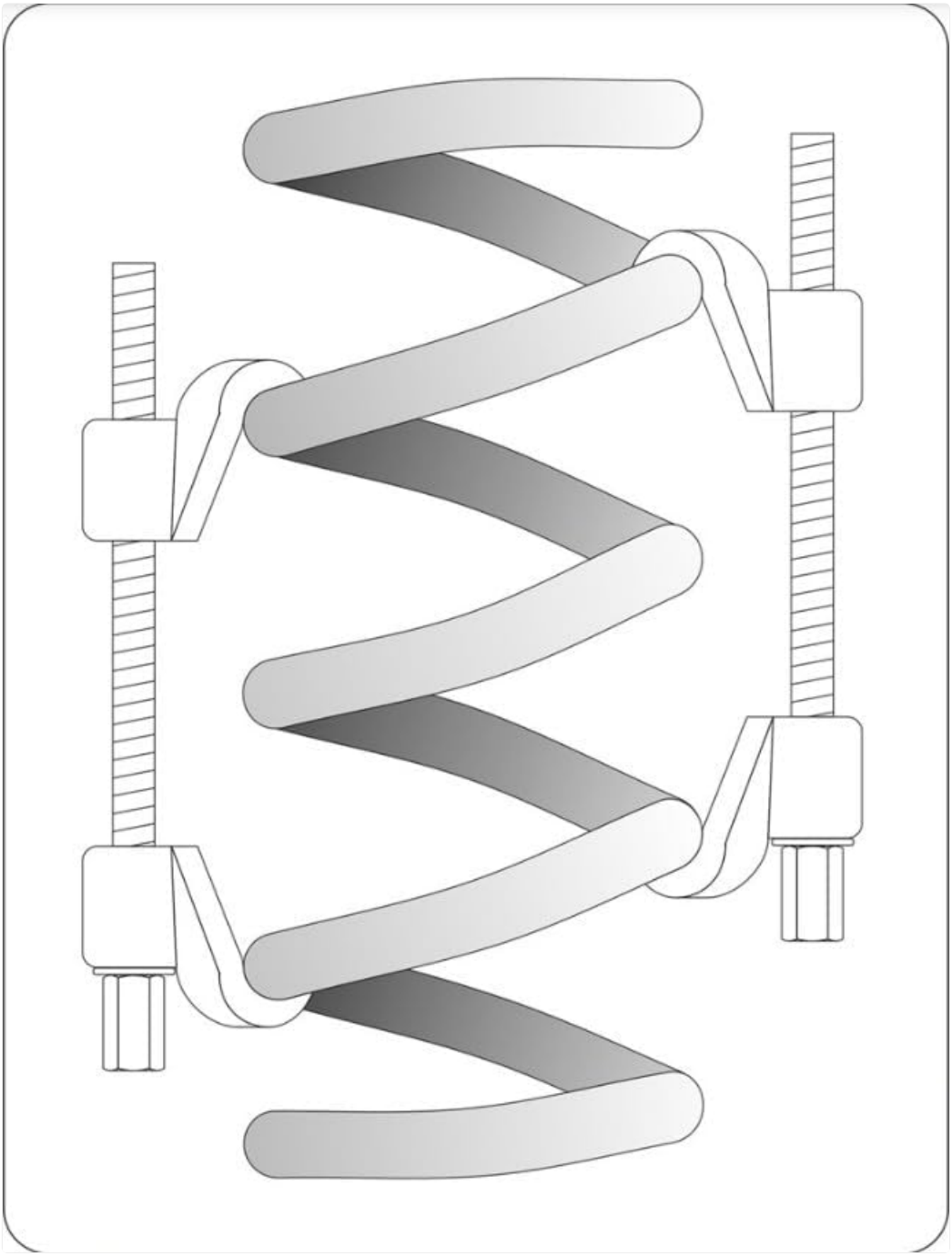


Image: Diagram illustrating the correct placement of a spring compressor on a coil spring.

Maintenance

- **Cleaning:** After each use, clean the spring compressors to remove dirt, grease, and debris.
- **Lubrication:** Periodically apply a light coat of grease or oil to the threaded rods and nuts to ensure smooth operation and prevent rust.
- **Storage:** Store the spring compressors in a clean, dry place, away from moisture and corrosive materials.
- **Inspection:** Regularly inspect the tools for wear, damage, or deformation. Pay close attention to the hooks, threaded rods, and nuts. Replace the tool if any damage is found.

Troubleshooting

Most issues with spring compressors are related to improper usage. Always refer to the "Safety Information" and "Operating Instructions" sections.

- **Compressor Jaws Slipping:**
  - Ensure jaws are fully seated on the spring coils.
  - Verify the spring is clean and free of excessive grease.
  - Ensure both compressors are positioned directly opposite each other and tightened evenly.
- **Difficulty Compressing:**
  - Apply lubricant to the threaded rods and nuts.
  - Ensure even tightening of both compressors.
  - Confirm the tool is rated for the spring size and strength.
- **Spring Bending Unevenly:**
  - Loosen and reposition the compressors to ensure they are directly opposite and gripping the spring symmetrically.
  - Tighten both compressors alternately and evenly.

Specifications

Model Number	YT-2547
Brand	Yato
Number of Tools	2
Length	355 mm (approx. 14 inches)
Maximum Jaw Opening	82 mm (approx. 3.2 inches)
Hex Drive Size	21 mm (1/2" drive)
Material	Drop Forged Steel
Item Weight	1.99 Kilograms (for the set)
Product Dimensions (L x W x H)	37 x 8.2 x 2.2 cm
Color	Black

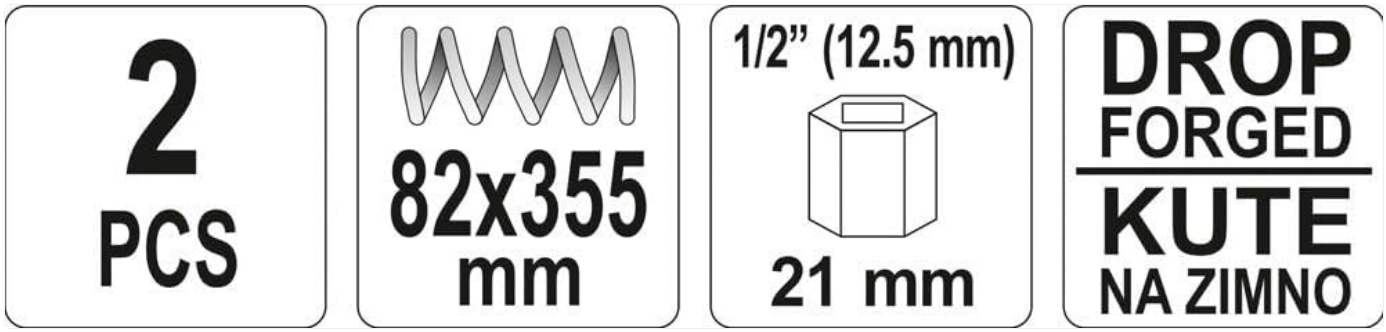


Image: Key specifications and features of the spring compressor set.

Warranty and Support

YATO products are manufactured to high standards and are designed for durability and performance. For information regarding warranty coverage, technical support, or replacement parts, please refer to the official YATO website or contact your authorized YATO dealer.

Please retain your proof of purchase for any warranty claims.

Ask a question about this manual

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Question

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.

Submit question