

## TecTake 400869

# TecTake Universal McPherson Strut Spring Compressor Instruction Manual

Model: 400869

## 1. PRODUCT OVERVIEW

This manual provides essential instructions for the safe and effective use of your TecTake Universal McPherson Strut Spring Compressor. This professional kit is designed for the simple and reliable assembly and disassembly of chassis springs, whether you are replacing shock absorbers, strut bearings, or lowering your vehicle with a sport chassis or adjustable coilover suspension.

The tool is suitable for springs with a diameter of 80 - 190 mm and features a robust steel construction for durability and safety.

## 2. SAFETY INSTRUCTIONS

**WARNING! For safety reasons, this tool must only be used by specially trained personnel with knowledge of chassis systems. Improper use can lead to serious injury or damage to property.**

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work on the suspension.
- Never use damaged or modified components of the spring compressor. Inspect all parts before each use.
- Ensure the spring cups are correctly seated and securely gripping the spring coils before applying compression.
- Do not exceed the maximum opening of 300 mm.
- Apply compression gradually and evenly.
- Keep hands and other body parts clear of the spring and compressor mechanism during operation.
- Lubricate the main spindle regularly to ensure smooth operation and prevent wear.
- Store the tool in its transport case in a dry, secure place when not in use.

## 3. PACKAGE CONTENTS

The TecTake Universal McPherson Strut Spring Compressor kit includes the following components, neatly organized in a practical transport case:

- 1x Universal McPherson Spring Compressor main unit
- 1x Spacer (30 mm offset for conical base springs)
- 3x Pairs of Spring Cups for various spring diameters:
  - 1 pair for 80 - 110 mm diameter springs
  - 1 pair for 105 - 145 mm diameter springs
  - 1 pair for 145 - 190 mm diameter springs
- 1x Practical Transport Case



Image 1: All components of the TecTake spring compressor kit, including the main compressor unit, three pairs of spring cups, a spacer, and the red transport case.

## 4. SPECIFICATIONS

Spring Diameter Range	80 - 190 mm
Maximum Opening	300 mm
Drive Mechanism	Ratchet or 21 mm open-end wrench
Spacer Offset	30 mm (for conical base springs)
Total Weight (with accessories)	Approx. 16 kg
Material	Robust Steel

## 5. SETUP

- Unpack and Inspect:** Carefully remove all components from the transport case. Inspect each part for any signs of damage or wear. Do not use the tool if any part is damaged.
- Lubricate:** Apply a suitable lubricant to the main threaded rod of the compressor unit. This ensures smooth operation and extends the life of the tool.
- Select Correct Cups:** Identify the appropriate pair of spring cups based on the diameter of the spring you intend to compress. The kit includes three sizes: 80-110 mm, 105-145 mm, and 145-190 mm.
- Attach Cups:** Securely attach the selected spring cups to the compressor arms. Ensure they are firmly bolted or clipped into place according to the design of the compressor.



Image 2: The TecTake spring compressor kit in its red transport case, ready for use.

## 6. OPERATING INSTRUCTIONS

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Follow these steps carefully to safely compress and decompress vehicle springs:

1. **Prepare the Vehicle:** Lift the vehicle and secure it on jack stands. Remove the wheel and any other components necessary to access the strut assembly.
2. **Position the Compressor:** Place the spring compressor onto the spring. Ensure that the selected spring cups are positioned on opposing coils of the spring, gripping them firmly and evenly. The cups should be as far apart as possible on the spring for maximum stability.
3. **Check Alignment:** Verify that the compressor is centered on the spring and that the cups are securely seated. Misalignment can cause the spring to slip, leading to dangerous situations.
4. **Compress the Spring:** Using a ratchet or a 21 mm open-end wrench, slowly and gradually turn the main spindle of the compressor. Alternate between the two sides of the compressor if applicable, or ensure even compression if it's a single-spindle design. Observe the spring carefully as it compresses. Stop compressing once the spring tension is relieved from the strut assembly.
5. **Remove the Strut Components:** Once the spring is safely compressed, you can proceed to

disassemble the strut assembly, such as removing the top nut, shock absorber, or strut bearing.

6. **Install New Components:** Place the new shock absorber, spring, or other components onto the strut assembly.
7. **Decompress the Spring:** Carefully position the compressed spring onto the new strut assembly. Ensure it is correctly seated. Slowly and gradually release the tension on the spring by turning the main spindle in the opposite direction. Ensure the spring expands evenly and seats correctly in its mounts.
8. **Remove Compressor:** Once the spring is fully decompressed and securely seated, remove the spring compressor from the strut assembly.
9. **Reassemble Vehicle:** Reassemble the remaining vehicle components and lower the vehicle.

**Note:** If using the 30 mm offset spacer for conical base springs, ensure it is correctly installed to provide proper clearance and support.

## 7. MAINTENANCE

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- **Cleaning:** After each use, clean the compressor and all accessories to remove dirt, grease, and debris.
- **Lubrication:** Regularly lubricate the main threaded rod and moving parts with appropriate grease to prevent rust and ensure smooth operation.
- **Inspection:** Periodically inspect all components for signs of wear, cracks, bends, or other damage. Pay close attention to the spring cups and the threaded rod. Replace any damaged parts immediately.
- **Storage:** Store the spring compressor and its accessories in the provided transport case in a dry, clean, and secure environment, away from moisture and extreme temperatures.

## 8. TROUBLESHOOTING

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If you encounter issues during operation, consider the following:

- **Difficulty in Compression:** Ensure the main spindle is adequately lubricated. Check that the spring cups are correctly seated and not binding.
- **Spring Slippage:** Immediately stop operation. Re-evaluate the placement of the spring cups. They must grip the spring coils securely and evenly. Ensure the correct size cups are used for the spring diameter.
- **Unusual Noises:** Stop operation and inspect the tool for any loose or damaged parts. Do not proceed until the cause is identified and rectified.

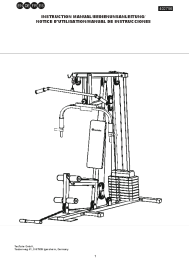


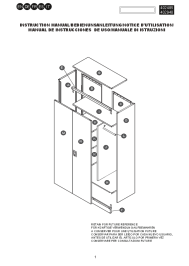
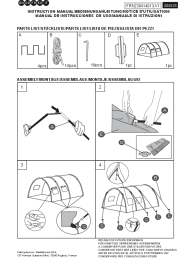
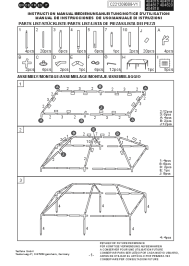
For issues not covered here, consult a qualified automotive technician.

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to inquire about replacement parts, please refer to the official TecTake website or contact your retailer. Keep your purchase receipt as proof of purchase.

No official product videos were found for this item in the provided data.

	<p><a href="#">TecTake 402756 Home Gym Assembly and Exercise Guide</a></p> <p>Instruction manual for the TecTake 402756 home gym, covering assembly, safety precautions, and exercise guidance. Includes preparation tips and warm-up/cool-down routines.</p>
	<p><a href="#">TecTake 400777 Semi-Automatic Washing Machine User Manual and Instructions</a></p> <p>This user manual provides comprehensive instructions for the TecTake 400777 semi-automatic washing machine, covering installation, operation, safety guidelines, and maintenance. Learn how to effectively wash and spin your clothes with this efficient appliance.</p>
	<p><a href="#">Roller Blind Installation Manual</a></p> <p>Comprehensive instruction manual for the installation of a roller blind, including parts list, assembly steps, and contact information for tectake.</p>
	<p><a href="#">Assembly Instructions for TecTake Wardrobe (Models 402485, 402940)</a></p> <p>Comprehensive assembly instructions for TecTake wardrobe models 402485 and 402940, detailing parts list and step-by-step assembly guidance in multiple languages.</p>
	<p><a href="#">tectake Roskilde 6-Person Camping Tent Assembly Instructions</a></p> <p>Assembly guide for the tectake Roskilde 6-person camping tent, including parts list and step-by-step instructions. Model FRN230414013-V1.</p>
	<p><a href="#">Assembly Instructions for TecTake Tent (Models 404816-404820)</a></p> <p>Step-by-step assembly guide for TecTake tents, including parts list and assembly diagrams. Covers models 404816, 404817, 404818, 404819, and 404820.</p>