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› [WiITec](#) /

› [WiITec McPherson Strut Spring Compressor Set - Model 62285 Instruction Manual](#)

WiITec 62285

WiITec McPherson Strut Spring Compressor Set - Model 62285

Instruction Manual

[Instructions](#) [Safety Instructions](#) [Components](#) [Setup](#) [Operating](#)
[Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

INTRODUCTION

This manual provides essential instructions for the safe and effective use of the WiITec McPherson Strut Spring Compressor Set, Model 62285. This specialized tool is designed for the safe assembly and disassembly of McPherson strut spring assemblies on various vehicle types. Please read this manual thoroughly before operation to ensure proper usage and to prevent injury or damage to the equipment.

SAFETY INSTRUCTIONS

WARNING: Spring compressors are high-tension tools. Improper use can result in serious injury or death. Always wear appropriate personal protective equipment, including safety glasses and heavy-duty gloves.

- Always ensure the compressor is securely attached to the spring before applying tension.
- Inspect the tool for any damage or wear before each use. Do not use if components are bent, cracked, or worn.
- Ensure the spring is clean and free of debris that could interfere with jaw grip.
- Apply tension gradually and evenly. Avoid sudden movements or excessive force.
- Never exceed the maximum tension capacity of 1000 kg.
- Keep hands and other body parts clear of the spring and compressor mechanism during operation.
- Use only the appropriate jaw size for the spring being compressed.
- Store the tool in its plastic case when not in use to protect it from damage and corrosion.

COMPONENTS OVERVIEW

The WiITec McPherson Strut Spring Compressor Set includes the following components:

- 1x Universal Spring Compressor Body

- 1x Robust Clamp
- 3x Pairs of Jaw Clamps (different sizes for various spring diameters):
 - Small Jaws: For springs with diameters 65–125 mm
 - Medium Jaws: For springs with diameters 88–160 mm
 - Large Jaws: For springs with diameters 126–212 mm
- 1x Spacer for tapered springs (30 mm offset)
- 1x Durable Plastic Storage Case

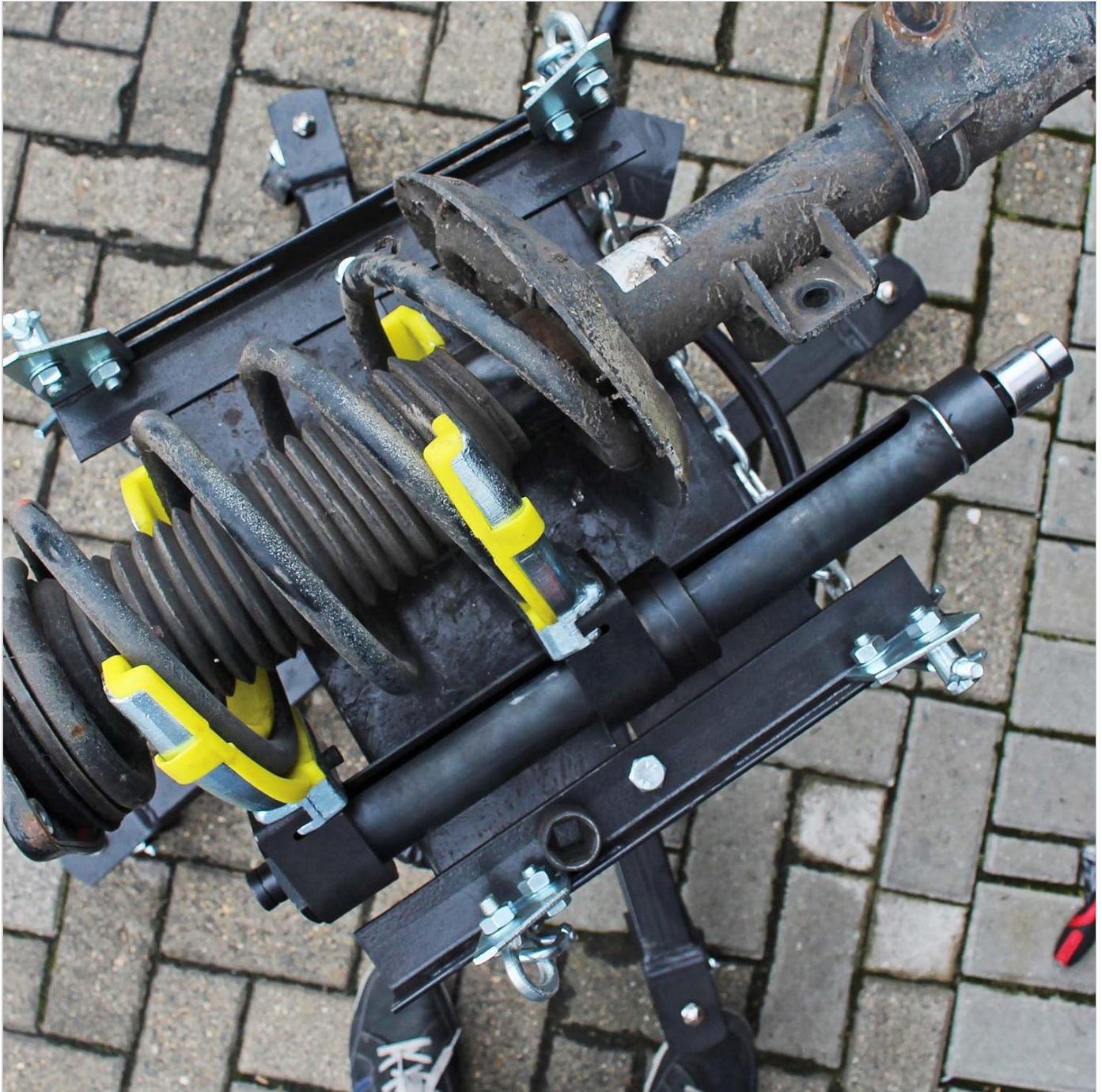


Image: The complete WilTec McPherson Strut Spring Compressor Set neatly organized within its red plastic storage case, showcasing the main compressor body and the three pairs of yellow jaw clamps.



Image: A detailed view of the various jaw clamps and small accessory parts, including screws, within the red plastic case, highlighting the different sizes and the robust construction.

SETUP INSTRUCTIONS

1. **Prepare the Vehicle:** Safely lift the vehicle and secure it on jack stands. Remove the wheel and any components necessary to access the McPherson strut assembly.
2. **Inspect the Strut:** Ensure the strut assembly and spring are clean and free of excessive dirt or rust that could impede the compressor's grip.
3. **Select Appropriate Jaws:** Choose the pair of jaw clamps that best fits the diameter of the spring you intend to compress. The jaws should sit securely on the spring coils without excessive play or being too tight.

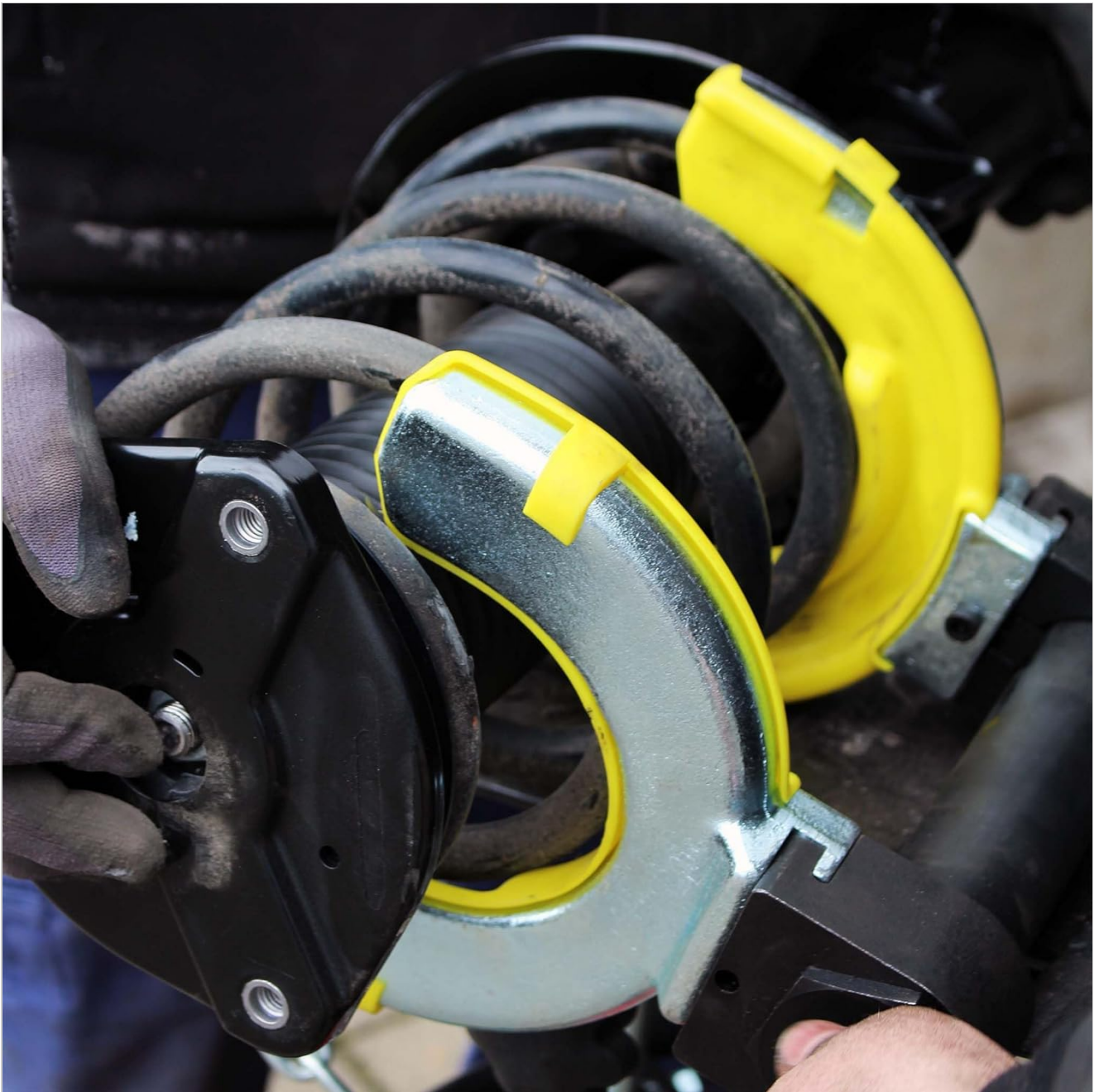


Image: A close-up view of hands positioning one of the yellow jaw clamps onto a spring coil, demonstrating the correct placement for secure attachment.

4. **Attach Jaws to Compressor Body:** Securely attach the selected jaw clamps to the main compressor body using the provided fasteners. Ensure they are tightened properly.
5. **Position the Compressor:** Place the compressor assembly onto the spring. Position the jaws on opposite sides of the spring, ensuring they grip at least two full coils. For springs with a taper, use the 30 mm offset spacer to ensure even compression.



Image: A close-up of the yellow jaw clamps firmly gripping the coils of a vehicle spring, illustrating proper engagement before compression.

OPERATING INSTRUCTIONS

1. **Begin Compression:** Using a suitable wrench, slowly turn the nut on the main compressor body. This will draw the jaws together, compressing the spring.
2. **Monitor Compression:** Continuously observe the spring and jaws during compression. Ensure the jaws remain securely seated and the spring compresses evenly. Stop immediately if any component shows signs of stress or slippage.



Image: An overhead perspective showing the spring compressor actively compressing a strut spring, with the main body and jaws clearly visible and engaged.

3. **Compress to Required Length:** Continue compressing the spring until enough tension is relieved to safely remove or install the strut components (e.g., top hat, shock absorber). Do not over-compress the spring.
4. **Remove/Install Components:** With the spring safely compressed, proceed with the necessary repair or replacement of the strut components.
5. **Release Compression:** Once the strut assembly is reassembled or the spring is ready for removal, slowly and gradually loosen the compressor nut to release the spring tension. Ensure the spring expands evenly.



Image: A side view of the spring compressor engaged with a strut assembly, illustrating the tool's position and how it holds the spring under compression.



Image: A close-up of a gloved hand operating the spring compressor, demonstrating the manual adjustment process to compress or release the spring.

6. **Remove Compressor:** Once all tension is released and the spring is fully expanded (or secured by other means), remove the compressor from the spring.

MAINTENANCE

- **Cleaning:** After each use, clean all components of the spring compressor to remove dirt, grease, and debris.
- **Lubrication:** Periodically apply a light coat of grease or oil to the main threaded rod and moving parts to ensure smooth operation and prevent corrosion.
- **Inspection:** Regularly inspect the jaws, main body, and threaded rod for signs of wear, cracks, bends, or other damage. Replace any damaged components immediately.
- **Storage:** Store the spring compressor set in its original plastic case in a dry, clean environment to protect it from moisture and physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Jaws slip on spring.	Incorrect jaw size; jaws not properly seated; spring is dirty/greasy.	Ensure correct jaw size is used. Re-seat jaws firmly on at least two coils. Clean spring surface.
Difficulty turning compressor nut.	Threaded rod is dry or corroded; excessive force being applied.	Lubricate the threaded rod. Ensure compression is even. Do not exceed 1000 kg force.
Uneven spring compression.	Jaws not positioned symmetrically; incorrect jaw size for tapered spring.	Reposition jaws to ensure even grip. Use the spacer for tapered springs if applicable.
Tool appears damaged.	Wear and tear; accidental damage; exceeding load capacity.	Discontinue use immediately. Inspect for cracks, bends, or deformation. Replace damaged components or the entire unit.

SPECIFICATIONS

- **Brand:** WilTec
- **Model:** 62285
- **Material:** Hot-forged, galvanized steel
- **Maximum Compression Force:** Approximately 1000 kg
- **Jaw Clamp Sizes:**
 - 65–125 mm
 - 88–160 mm
 - 126–212 mm
- **Spacer Offset:** 30 mm (for tapered springs)
- **Item Weight:** 14 Kilograms
- **Package Dimensions:** 54 x 45 x 13 cm
- **ASIN:** B07XD67YL6
- **Country of Origin:** China

WARRANTY AND SUPPORT

For warranty information or technical support, please contact WilTec customer service. Refer to your purchase documentation for specific warranty terms and contact details. Keep your proof of purchase for any warranty claims.

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