

EN

Original Instructions
Version 2 – February 2023



COIL SPRING COMPRESSOR KIT

60981

Read this manual in full before using this product and retain it for future use. Always use the latest version of the manual. Please visit [drapertools.com/manuals](https://www.drapertools.com/manuals) for the latest version.

1. Intended Use

This product is designed to compress and expand automotive strut springs found in vehicles from a range of manufacturers and is suitable for use on both MacPherson Strut coil springs and conical springs.

It is intended for frequent trade use, with the quality and features to meet and exceed expectations of the most demanding user.

Important: ALWAYS consult the vehicle manufacturer's information to determine the correct procedure specific to each vehicle.



2. Specification

Stock No.	60981
Part No.	N1000B
Gold jaws:	
Range:	Ø 80–115mm
Inner diameter:	65mm
Outer diameter:	125mm
Weight (pair)	1.45kg*
Black Jaws:	
Range:	Ø 105–140mm
Inner diameter:	88mm
Outer diameter:	160mm
Weight (pair)	2.2kg*
Silver jaws:	
Range:	Ø 145–190mm
Inner diameter:	126mm
Outer diameter:	212mm
Weight (pair)	2.3kg*
Main body:	
Max. load:	1,250kg
Max. jaw opening:	300mm ±5mm (approx.)
Drive:	21mm
Weight:	5.17kg*

*All weights are approximate and may vary between individual items

3. Health and Safety Information

Important: Read these instructions before attempting to use or maintain this product. Non-compliance may result in injury or damage to the user, the product or the load.

- **DO NOT** allow anyone who is unfamiliar with this product or unqualified in its use to operate this device.
- Observe all standard safety precautions and good practices when working with vehicles and compression devices.
- **ALWAYS** read this document in conjunction with the vehicle manufacturer's information.
- Keep your work area well lit, with bystanders at a safe distance.

- Do not modify the product in any way and use spare parts supplied by Draper Tools **ONLY**.
- Before every use, inspect the product for broken parts, cracks and loose fixtures.



WARNING! DO NOT use this product if it is damaged in any way or its structural integrity is compromised. Replace or repair all affected parts before use.

- Wear appropriate personal protective equipment, including eye or face protection and protective gloves.
- **ALWAYS** ensure that the chosen jaws are suitable for the spring type and size.
 - The spring must rest securely between the outer rib and safety ridges of the jaws.
 - Ensure that the spring cannot slide out of the jaw plates once they are installed.
- Keep your hands and other body parts clear of the spring as it is being compressed or released.
 - **DO NOT** wear loose clothing or jewellery and keep long hair tied back.
- **DO NOT** allow the spring windings to touch or the compressor jaws to reach the minimum or maximum limit of the tool's compression range.
- The centre line of the spring **MUST** remain parallel to the main body at all times, particularly when compressing conical springs.
- Ensure that the jaw bolts remain firmly tightened during use.
- **DO NOT** leave a compressed spring unattended.
- **DO NOT** replace the safety pin with a pin of a different strength grade.

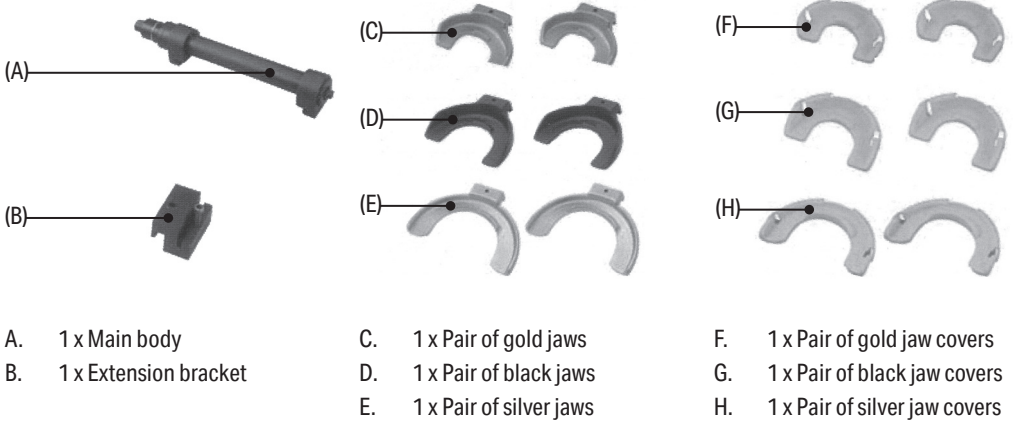


WARNING! Compressed springs contain significant amounts of potential energy. Exercise extreme caution when working with or handling compressed springs and observe the load at all times.



WARNING! NEVER use any form of power tool or air tool to rotate the hex drive as the increased speed may cause the spring to burst from the jaw pieces. Use ONLY a manual 21mm spanner.

4. What's in the Box?



Please visit drapertools.com for our full range of accessories and consumables.

5. Operating Instructions

Important: Before operating this product, read and understand all the safety instructions listed in this manual.

5.1 Basic Operation

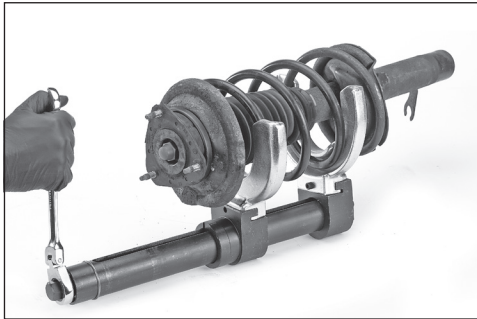


Fig. 1

1. Ensure that the spring is clean and structurally sound.
2. Measure the outer diameter of the spring at the points where the compressor will be installed and select two appropriately sized jaws.
 - When compressing a standard coil spring, select a matching colour pair of jaws.
 - When compressing a conical spring, it may be necessary to combine jaws of different colours.

Important: The extension bracket should be used with the smaller of the two jaws; see **5.2**.

- The jaw covers can be installed, if required, to protect the springs during operation.
- Install the jaws as close as possible to the ends of the spring.

3. Use a 21mm spanner to rotate the hex drive anticlockwise and open the main body to a suitable distance.

WARNING! NEVER use a power tool or air tool to rotate the hex drive.

4. Use the retaining screws to fix the jaws to the mounting points on the main body, ensuring that the open faces are directed inwards.
5. Position the jaws around the spring, then use the 21mm spanner to rotate the hex drive clockwise and tighten the jaws until they both contact the spring.
6. Check that the spring is seated correctly in both jaw pieces, then continue tightening the jaws until the spring is compressed as required.

CAUTION! DO NOT allow the spring windings to touch or the compressor jaws to reach the minimum or maximum limit of the tool's range. Observe the spring during operation to ensure that it is compressed evenly.

7. To release the spring, carefully rotate the hex drive anticlockwise until the spring can be removed from between the jaws.

Important: DO NOT leave the spring in a compressed state for any longer than is absolutely necessary.

5.2 Using the Extension Bracket

The extension bracket should be used to accommodate the smaller jaw piece when a conical spring is compressed and can be installed by screwing it between the main body mounting points and the jaw piece.

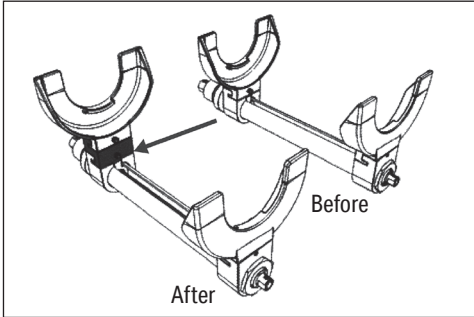


Fig. 2

Important: The extensions bracket should **NOT** be used when operating on a coil spring as both jaws must be the same size.

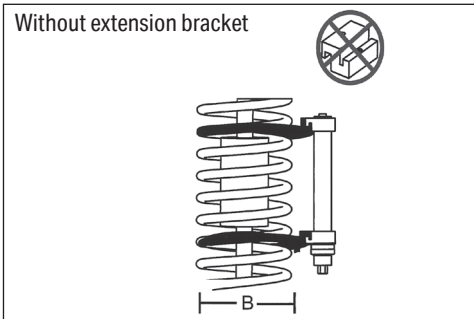


Fig. 3

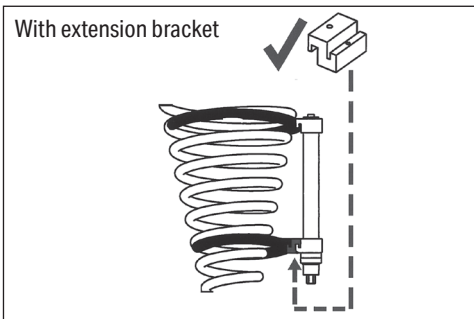


Fig. 4

6. Product Care and Disposal

Important: Never attempt to maintain this product while a spring is loaded and compressed. Remove any springs from the tool before disposal.

- Inspect the product for damage or weakness before and after every use.
- Periodically lubricate the hex drive and main body spindle mechanism to prevent corrosion and binding.
- Clean the compressor with a dry cloth only.
- Store the product in a clean and dry location, out of reach of children.

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

7. Symbols



Read the instruction manual



Warning!



Jaw range



Inner jaw diameter



Outer jaw diameter



Jaw weight (pair)