

5931

LASER[®]

Coil Spring Compressor

(Internal type)



Instructions



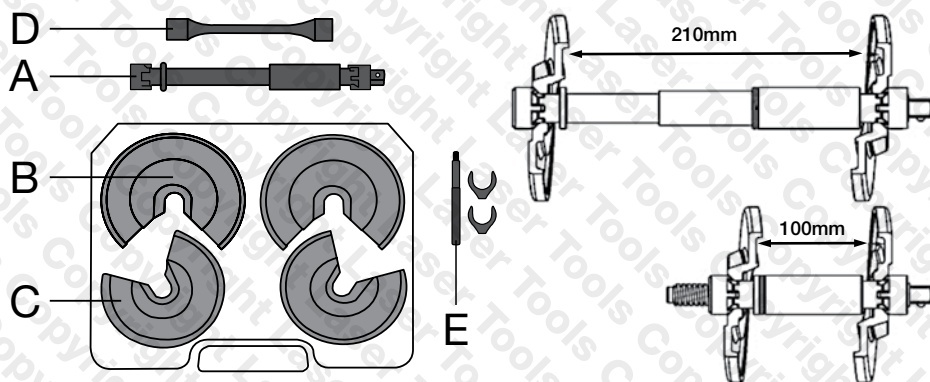
Introduction

To compress the suspension coil spring when the spring is fitted independently of the suspension damper (wishbone, independent and multi-link systems) and access is possible from the bottom of the spring. The dimensions of the tool will allow access through lower wishbone holes as small as 30mm in diameter.

The kit includes two pairs of clamp jaws that offer coverage of coil springs from 66mm to 140mm external diameter. Also included is a torque limiting bar that allows the compressor to be used with an air impact wrench. The torque limiting bar restricts the maximum torque applied by an air impact wrench to 100Nm. A standard ratchet can also be used but care must be taken to ensure that the maximum torque applied does not exceed 100Nm.

Vehicle applications include Chrysler, Citroën, Ford, Honda, Kia, Mercedes-Benz, Mitsubishi, Peugeot, Renault, Seat, Skoda, Suzuki, Toyota, Volvo, Volkswagen, BMW 3 series (1996-2013) Mercedes-Benz W202/W204 (1997-2013).

Contents



Ref	Component
A	Compressor: telescopic main body
B	Large jaw clamp set (90mm – 140mm)
C	Small jaw clamp set (66mm – 120mm)
D	Torque limiting extension bar
E	Fitting tool and Fork Wedges (x2)

Maximum load: 3800kgf (37,240N)

Instructions

IMPORTANT: You must refer to the manufacturer's service instructions or documentation to establish the correct procedures for removing the coil spring and/or damper units. The following notes and diagrams are provided as a guide only. No liability is accepted for incorrect use of this product.

1. Ensure the vehicle is safely and properly supported.
2. Measure the diameter of the coil spring and select either the large or small jaw clamp set as appropriate (B or C).
3. Ensure that the coil spring is clean and free of dirt or grease where the clamps will be in contact with it.
4. Refer to diagram Fig 1. Slide one of the jaw clamps into the top of the spring and insert the telescopic body of the compressor (A) up inside the spring from below, with the 1/2" drive facing downwards.
5. Connect the telescopic body of the compressor into the slot in the upper jaw clamp. Ensure that the teeth in the compressor are locked together correctly with the clamp (See Fig 2).
6. Insert the lower jaw clamp at the lower end of the coil spring and slot it into the telescopic body, again making sure the teeth are locating correctly.
7. Screw the handle into one of the fork wedges and insert the wedge under the upper jaw to prevent the jaw dropping out. Unscrew the handle and use it to fit the second fork above the lower jaw, as shown in Fig 3.
8. Apply a slight load to bring the clamp jaws together by turning the compressor drive clockwise. Then again check that both clamp jaws are correctly located and seated securely.
9. Proceed to compress the spring to enable removal. If using an air impact gun, first fit the torque limiting extension bar (D) onto the 1/2" drive. If using a standard ratchet, ensure that the maximum torque applied does not exceed 100Nm. (Torque limiting extension bar can also be used with a standard ratchet.) Use impact gun on low setting only on 1 second bursts.
10. If the spring windings touch each other then no more compression is possible. It is preferable to stop before the windings touch.
11. Remove the torque limiting extension bar if it is being used, then remove the spring and compressor from the vehicle.
12. Support the spring safely and drive the compressor in the opposite direction (anticlockwise, using hand wrench only) to release the tension from the spring and allow the compressor to be removed.

Fig. 1

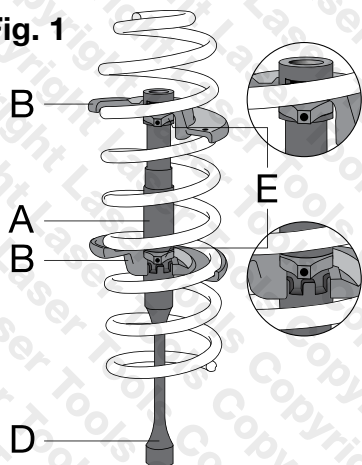


Fig. 2

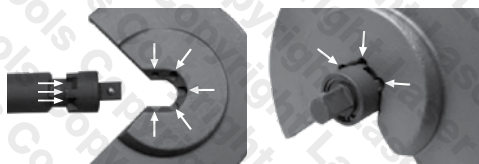


Fig. 3



Precautions

Precautions when using a spring compressor - PLEASE READ

- When compressed, a vehicle road spring is storing a very large amount of energy. Whilst all possible actions have been taken to reduce the risk of slippage this risk will always be present.
- Keep hands and body clear of the spring when operating the spring compressor.
- Do not leave compressed spring unattended.
- Always wear protective head, eye and hand gear. Responsibility for damage or injury lies with the user.
- Maintain the tool in a clean condition, especially the jaw clamps.
- Do not operate the spring compressor if parts are damaged or missing.
- Do not allow untrained persons to use the spring compressor.

WARNING: To prevent equipment damage and possible injury when fitting the 5931 to a tensioned spring always ensure the cups are positioned to allow the force screw thread to remain engaged by a minimum of 3 full turns at the free length of the spring.



Safety First. Be Protected.

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

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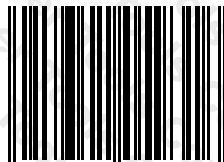
Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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