

Clarke® **STRONG-ARM**



COIL SPRING COMPRESSOR KIT MODEL NO: CHT965

PART NO: 1801965

USER INSTRUCTIONS

ORIGINAL INSTRUCTIONS

GC 0925

INTRODUCTION

Thank you for purchasing this CLARKE Coil Spring Compressor Set.

The CHT965 is suitable for most MacPherson strut coil springs. It features a yoke extension bracket that also allows use on conical springs. It comes supplied with three pairs of different sized interchangeable yokes for a wide range of vehicle applications.

The plastic yoke protectors protect the spring coating from damage which could invalidate the vehicle manufacturer's guarantee. The safety yokes are carefully shaped to stop the spring bowing while under compression.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you can look forward to your purchase giving you long and satisfactory service.

KIT CONTENTS



Contact your Clarke dealer if any items are missing or damaged.

- | | |
|------------------------------|--|
| • 1 x Blow moulded case | • 3 pairs of compression cups/ yokes (small, medium & large) |
| • 1 x Compression drive body | • 6 x Allen bolts |
| • 1 x Allen key | • Extension bracket |

SAFETY INSTRUCTIONS



WARNING: WEAR APPROVED SAFETY EYE PROTECTION (STANDARD SPECTACLES ARE NOT ADEQUATE).

WARNING: DO NOT COMPRESS THE SPRING TO AN EXTENT WHERE THE COIL WINDINGS OR YOKES TOUCH.

WARNING: MEASURE THE OUTSIDE DIAMETER OF THE SPRING TO BE COMPRESSED AND SELECT THE CORRECT SET OF YOKES TO FIT THE SPRING.

- **DO NOT** operate the spring compressor if parts are damaged or missing as this can cause failure or injury.
- **DO NOT** use air tools to operate the spring compressor.
- **DO NOT** allow persons unfamiliar with this product to operate the device.
- **ALWAYS** familiarise yourself with the applications, limitations and potential hazards of the product.
- Maintain the spring compressor in good condition. Replace or repair any damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- Keep the work area clean, uncluttered and ensure there is adequate lighting.
- Keep hands and body clear of the spring when under compression.
- Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- Remove ill fitting clothes. Remove ties, watches, rings, other loose jewellery. Contain and/or tie back long hair.
- Wear appropriate protective clothing.
- **DO NOT** exceed the maximum capacity of this spring compressor. If in doubt contact the vehicle manufacturer.
- **DO NOT** leave a compressed spring unattended.
- **ALWAYS** ensure that the chosen yokes are the correct ones for the spring size and type. Ensure the spring sits within the shape of the yokes and cannot slide out during compression.

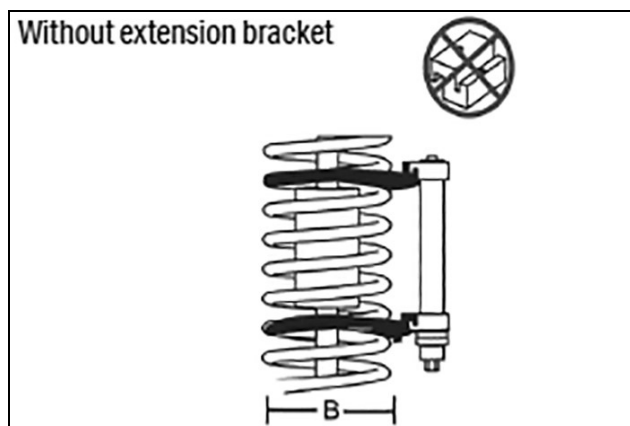
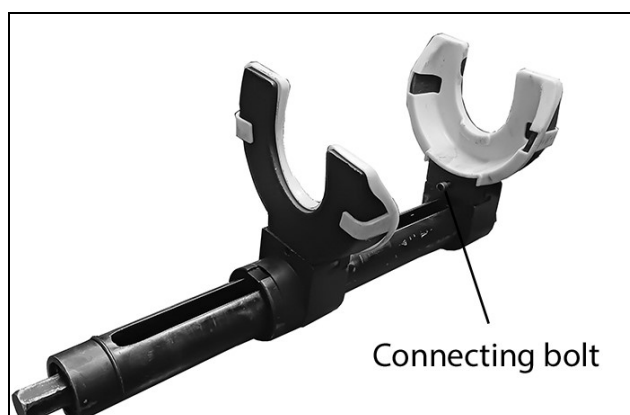
INSTRUCTIONS FOR USE



WARNING: MEASURE THE OUTER DIAMETER OF THE SPRING TO BE COMPRESSED AND SELECT THE CORRECT SET OF YOKES.

WARNING: ENSURE THAT THE COIL SPRING TO BE COMPRESSED IS FREE FROM DIRT AND GREASE WHERE THE YOKES WILL BE IN CONTACT WITH IT

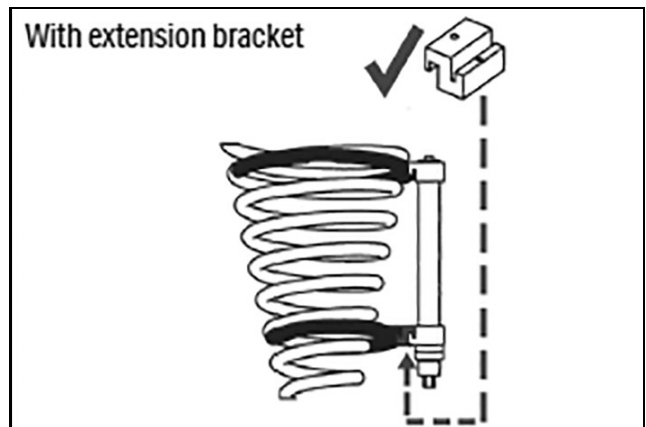
1. If removing the coil spring directly from the vehicle, raise the vehicle and remove wheels and any other items to allow access to the spring.
 - Make sure that the vehicle is safely and correctly supported.
2. Measure the diameter of the ends of the spring and select appropriately sized yokes.
 - A matching pair of yokes will suit a parallel sided spring but for a conical spring it may be necessary to combine different sized yokes.
 - Bolt your selected yokes to each end of the compression device using the connecting bolts supplied. A key is provided for this.
3. Position one yoke under the lower part of the spring winding.
4. Position the other yoke onto the top spring coil.
 - Install the yokes as close as possible to the ends of the spring.
 - Make sure that the spring coils sit between the inner and outer rims of the yokes.



5. Attach the body of the spring compressor to the yokes using the extension bracket if required, to align the axis of the spring with the compressor.

- Make sure that the spring is correctly seated within both yokes and the yokes are correctly aligned with the compressor body.

- If necessary use the extension block to keep the spring and compressor body parallel.



6. Use a 21mm hex socket to turn the hexagonal drive nut until the yokes are firmly in contact with the spring.
7. Now continue tightening to compress the spring.



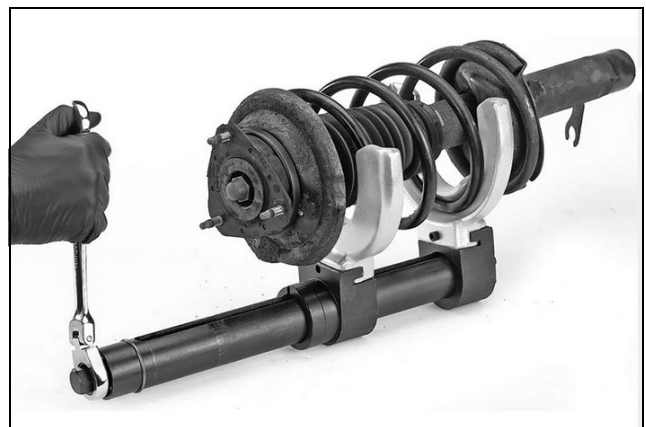
WARNING: AIR TOOLS MUST NOT BE USED TO ADJUST THE SPRING COMPRESSOR. USE OF AIR TOOLS WILL INVALIDATE THE WARRANTY.

WARNING: DO NOT ALLOW THE SPRING WINDINGS TO TOUCH. DO NOT ALLOW THE COMPRESSOR TO REACH THE LIMIT OF ITS TRAVEL IN EITHER DIRECTION.

8. Remove the compressed spring and compressor assembly from the vehicle once you have attained sufficient compression.
9. With the spring supported turn the hexagonal drive nut in the opposite direction and remove the compressor and yokes from the spring.
10. To re-mount the spring, reverse the procedure.

TO COMPRESS A STRUT SPRING REMOVED FROM A VEHICLE

1. Secure the strut with a clamp, vice or other adequate holding device.
2. Mount the selected yokes on the compressor body, fit the retaining bolts and tighten securely.
3. Rotate the hexagonal nut to drive the jaws apart to the length of the spring and to allow compression of as many windings as possible.



4. Position the spring strut compressor onto the spring, ensuring the spring seats correctly between the lips and the outer rib and cannot slide out during compression.

5. Ensure the yokes and body are correctly aligned.
6. Rotate the hexagonal nut and compress the spring until the spring is free to rotate.

TO DECOMPRESS A STRUT REMOVED FROM A VEHICLE

1. To decompress the spring, reverse the compress procedure.

CARE & MAINTENANCE

1. Before each use check the compressor to ensure it is not damaged.
2. If any damage is suspected, **DO NOT** use the unit but contact your local Clarke dealer who will be able to advise you regarding repair and spare parts.
3. Grease the compressor spindle as necessary to inhibit corrosion.
4. When not in use, clean and store in a safe, dry, childproof location.

TECHNICAL SPECIFICATION



Maximum Spring Load	1250 kg
Jaw Opening Range	80 - 115 mm -Small jaws 105 - 140 mm -Medium jaws 145 - 190 mm -Large jaws
Spring cup /yoke sizes	65-115mm - Small jaws 88-160mm - Medium jaws 126-212mm - Large jaws
Total weight	15.4 kg
Drive	21 mm Hex
Case size (H x W x D)	430 x 530 x 100 mm

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

ALSO AVAILABLE FROM YOUR CLARKE DEALER

CHT695 OIL FILTER CAP WRENCH SET	CHT701 12 PIECE OIL DRAIN PLUG KEY SET
	
<ul style="list-style-type: none"> • Can withstand up to 85lb ft torque • Oxide finish for rust protection • Can be used with 3/8" & 1/2" square drive wrenches • Kit includes 14 wrenches, adapter and tough carry case 	<ul style="list-style-type: none"> • 3/8" square drive carbon steel tommy bar • 7 Hex key drives 3/8", 8, 9, 10, 12, 14 & 17mm • 4 Square key drives 3/8", 8, 11 & 13mm
CHT698 46 PIECE HARMONIC BALANCE PULLER	CHT658 BRAKE CALIPER WIND BACK TOOL SET
	
<ul style="list-style-type: none"> • Removes flywheels and pulleys 36 to 95mm diameter • Solid yoke designed for 2 or 3 point fixing • 5" pressure screw 	<ul style="list-style-type: none"> • Left & right hand threaded bolt assemblies • Rewind tools and reaction plate • 15 adaptor plates to suit a range of vehicles

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PARTS & SERVICE:

0208 988 7400

Parts Enquiries
Parts@clarkeinternational.com

Servicing & Technical Enquiries
Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

Clarke® INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com