4557

LASER®

Chain Breaker & Riveting Tool Set

Instructions

Safety First. Be Protected.

5 018341 045579 >

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.

TOOL CONNECTION
The Complete Connection

Distributed by The Tool Connection Ltd

Kineton Road, Southam, Warwickshire CV47 0DR
T +44 (0) 1926 815000 **F** +44 (0) 1926 815888
info@toolconnection.co.uk **www.toolconnection.co.uk**

www.lasertools.co.uk

Chain Breaker & Riveting Tool Set

A comprehensive tool set designed to split motorcycle chain links and then securely rivet the soft link supplied with a new chain.
Note: This kit is specifically designed for the soft links provided with new chains and is not intended to re-rivet hardened steel links.

Most modern motorcycles have continuous drive chains with no split link. To replace the chain, the chain must be broken using the chain breaker tool and the new chain securely riveted together using a new soft link. We recommend renewing your sprockets at the same time as replacing your chain.

Note: These instructions are provided as a guide to the procedure; always refer to the motorcycle manufacturer's service instructions or other documentation, for the manufacturer's recommended procedure, which will detail any specific warnings or cautions particular to the model of motorcycle.

Before starting the job please ensure that the tool is suitable for the specific chain size and connecting link supplied with the new chain.

Instructions

Riveting the soft link pins:

- The final stage in the fitting of the soft link is to secure the plate by riveting the tops of the link pins over the plate. This riveting action will hold the plate tight against the chain and the O-rings.
- Remove the plate holder **(E)** then loosen the 4mm grub screw and reposition the pin holder to position **B**. Tighten the grub screw with a 4mm hex key. **Fig. 9.**
- Screw in the force screw of the pin holder so that head of the removal pin / riveting head **(C)** is positioned centrally over one of the link pin heads **Fig. 10**.
- Use a 27mm spanner to hold the tool steady and turn the force screw of the pin holder **(A)** with a 19mm socket and ratchet handle. Turn clockwise to deform the link pin head and form the rivet. Pull back the removal pin / riveting head **(C)** once or twice to check that the rivet head is forming centrally and that it is cleanly riveting.
- When the first pin's rivet is completed, pull back the removal pin / riveting head **(C)** and reposition the chain link so that the second pin is lined up with the riveting head. Then repeat the riveting procedure.

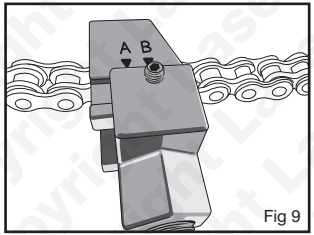


Fig 9

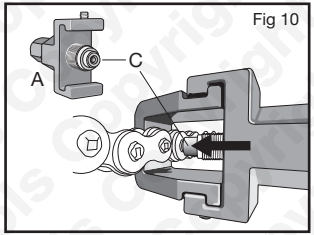


Fig 10

Note: the three removal pin / riveting heads **(C)** included in this set are consumable parts and therefore not covered by the standard Tool Connection guarantee. Spare removal pin / riveting heads are available:

3mm: **Part No. 1894** 4mm: **Part No. 1895**
5mm: **Part No. 1896**

Instructions

Fitting new chain and soft link:

- Ensure the new chain is the correct length by counting the links on the existing chain that has just been removed. Then fit the new chain around the sprockets and connect the two ends with the soft link (1 in **Fig. 5**) supplied with the new chain.
- Fit the O-rings **(2)** and ensure that they are adequately lubricated (refer to manufacturer's documentation). Fit the soft link plate **(3)** over the two soft link pins. **Fig. 5**
- Position the U holder **(B)** over the soft link of the chain so that the rear soft link pin heads locate in the recesses in the inner rear face of the U holder. Place the plate holder **(E)** over the soft link plate (3 in **Fig. 5**) - **Fig. 6**.
- Remove the removal pin **(C)** from pin holder **(A)**, turn it around and re-insert it with the pin facing inwards **Fig. 7**.
- Slide the pin holder **(A)** over the U holder and secure in position **A**. Screw in the pin holder to press the soft link plate onto the two soft link pins. **Fig. 8.**

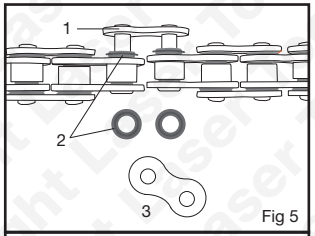


Fig 5

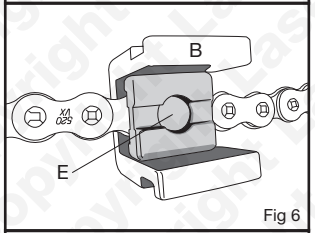


Fig 6

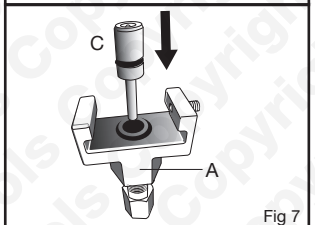


Fig 7

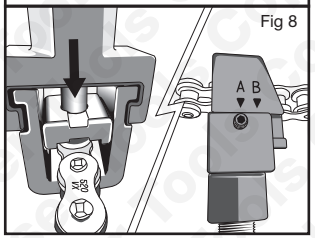
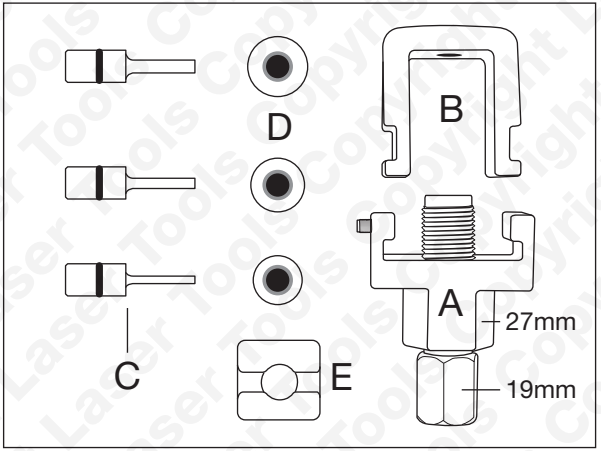


Fig 8

Components



Ref	Description
A	Pin holder (27mm fixed hex and 19mm force screw head)
B	U holder
C	Removal Pins / riveting heads (3mm, 4mm, 5mm)
D	Anvils (3mm, 4mm, 5mm)
E	Plate holder

Instructions

Removing link:

- With the motorcycle securely and safely mounted on a suitable stand, inspect the chain to ascertain if there is a previously fitted soft link. If there is, turn the chain so that this link is easily accessible near the centre of the bottom run of the chain. If there is no soft link fitted, choose an accessible link which will be used to break the chain in the next step.
- Using an angle grinder (or a file), grind off the top of one of the pins on the chosen link **Fig. 1**.
- Select the correct size of removal pin **(C)** and insert in to pin holder **(A)**. The first time the pin is used it may require a smear of oil or grease on the rubber securing O-ring to enable the pin to be inserted fully home. Ensure that the force screw of the pin holder **(A)** is wound fully back to allow sufficient space for it to fit over the chain.
- If necessary, position the matching size anvil **(D)** into the aperture in the U holder **(B)**. With some sizes of chain the anvil is not necessary and the chain can be laid directly over the U holder aperture.

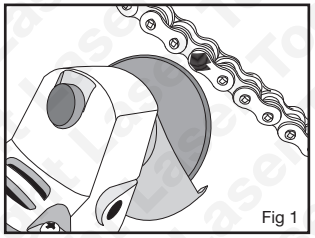


Fig 1

Instructions

- Position the U holder against the chain link to be removed. Then slide the pin holder body **(A)** over the U holder and secure in position A, by tightening the grub screw with a 4mm hex key.
- Carefully adjust the chain link so that the rear of the link pin to be removed is fitting into the hole in the anvil and then screw in the pin holder **(A)** so that the removal pin **(C)** locates centrally on to the ground-off end of the link pin. **Fig. 2**.
- Use a 27mm spanner to hold the tool steady and turn the force screw of the pin holder **(A)** with a 19mm socket and ratchet handle. Turn clockwise to push out the link pin. **Fig. 3** and **4**.

Note: If excessive force is required to push out the pin, recheck that the components are lined up correctly and make sure the removal pin **(C)** is not too large.

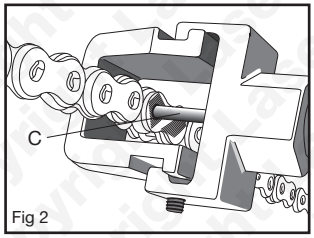


Fig 2

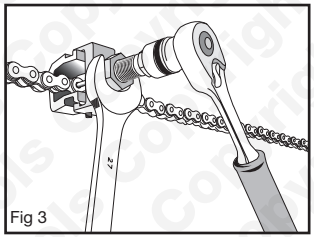


Fig 3

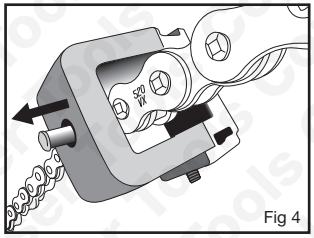


Fig 4