

# LASER<sup>®</sup>

Part No. 8680/8681

## Heat Inductor Kit

1000W (UK Plug/Euro Plug)

### Instructions



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## Introduction

This hand-held induction heater creates a high-intensity flameless heat to provide a quick and simple method of loosening seized or corroded metal components such as nuts and bolts, track rod ends and exhausts etc. It comes supplied with a set of six different-sized heat inductor coils which help to allow for the heat to be concentrated only in the area in which you want the heat applied, minimising the risk of damage to any surrounding components and providing a safer option to heating with an open flame. This new model also features a removable pistol grip handle, which allows the inductor to be used straight-on making it ideal for use on otherwise hard to reach fixings.

The flameless technology and zero set up times assure a speedy job and excellent results. The heat inductor only heats ferrous metal objects; it will not burn or melt plastic or paint, unless the metal substrate is brought up to a sufficient temperature to damage these materials. The unit is very safe to use when following the safety precautions (see section **Safety Precautions**).

Supplied with 6-piece coil set together with a robust carry case for safe storage.  
220v single phase, 4A, 1000W output power. CE & RoHS compliant.

## Components

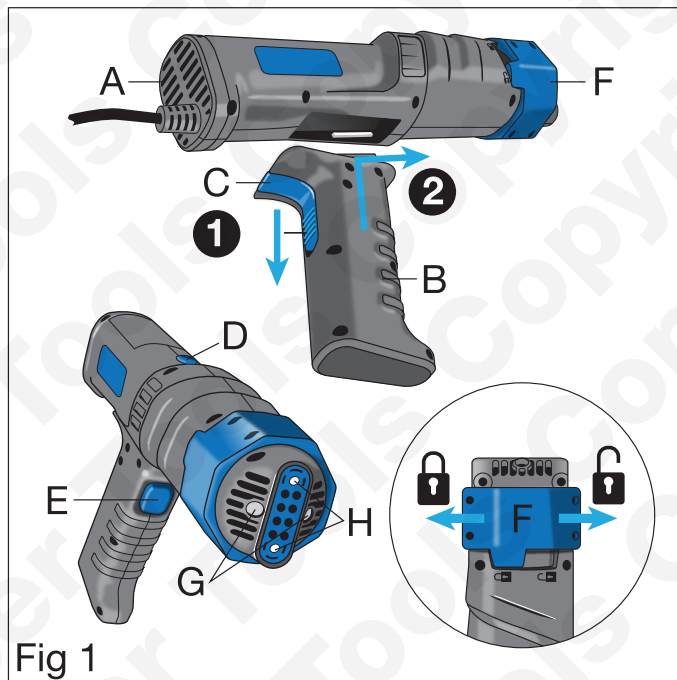


Fig 1

## Components

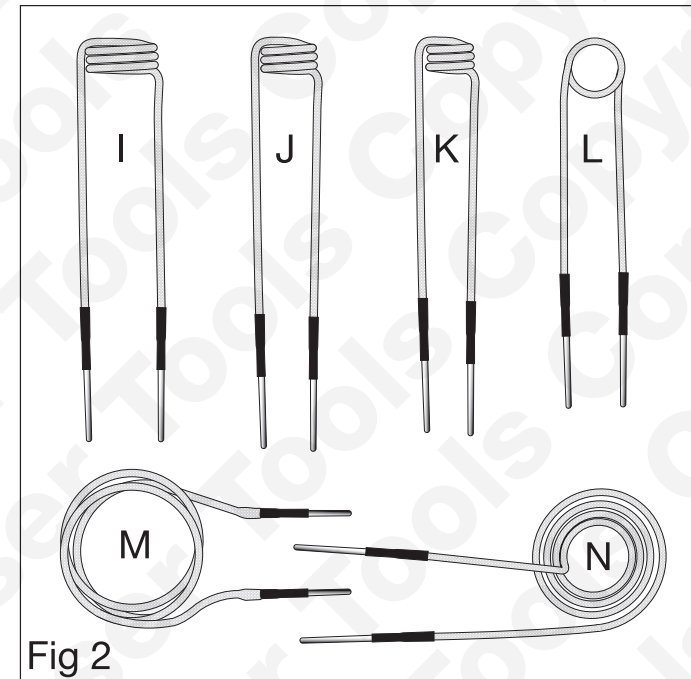


Fig 2

Ref.	Description
A	Main Inductor
B	Detachable Handle
C	Handle Release Tab
D	Power Switch (main body)
E	Power Switch (handle attached)
F	Rotary Coil Lock
G	Coil Leg Location Sockets
H	LEDs
I	28mm Coil x 200mm
J	22mm Coil x 200mm
K	18mm Coil x 200mm
L	22mm 90° Coil x 200mm
M	Flexible Rope Coil (1 metre)
N	65mm Flat Coil x 200mm

## Instructions

The following instructions are for guidance only. The use of this tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused whatsoever.



### Operation:

- Refer to Figure 1: Locate the legs of the chosen induction coil in the coil leg location sockets (**G**). Secure by turning the rotary coil lock (**F**) to the LOCK position (padlock symbol). Make sure the coil legs are secure and held tightly in the unit.
- Choose the correctly sized coil for the job — if you fit a coil that is too small, the heat damages the braid covering. The coil must not touch the fastener or object being heated, there must be an adequate air gap — 5mm minimum. No (or too small) air gap will damage the braid covering as the object heats up.
- Keep coils and attachments clean and dust and dirt-free.
- Refer to Figure 3: There is no reason to heat a nut to a red-hot condition in order to free it from the rust / corrosion holding it to the bolt. Red-hot will damage the braid coil covering.

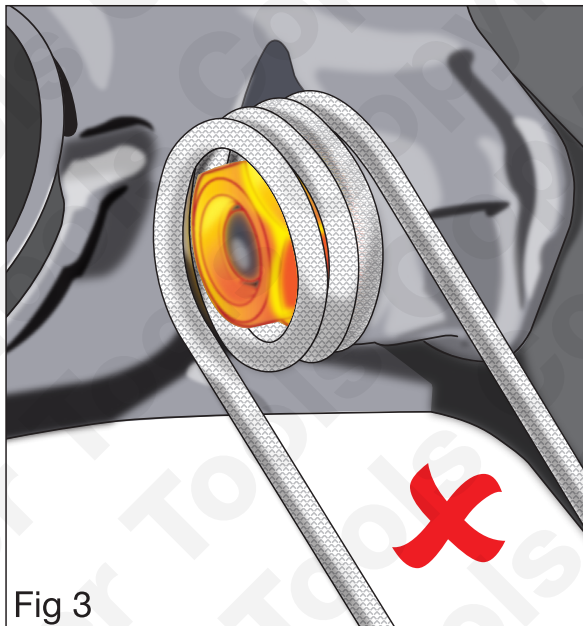


Fig 3

## Instructions

- The inductor can be used with the handle (**B**) fitted (use power switch **E**), or if access is restricted, without the handle (use power switch **D**).
- The flexible 1-metre rope coil (**M**) is used to heat an unusually sized or shaped component; wrap the rope coil around the component and then connect to the inductor unit. Do not attempt to create more than 4 coils — a minimum of 2 coils and a maximum of 4 coils is needed for correct operation.
- The 65mm Flat coil (**N**) is used to heat up panelwork to remove stickers, plastic mouldings, etc. Hold over the panel or moulding leaving a 5-10mm gap and move the inductor as required. Do not treat one area for too long — increasing temperatures may damage the paintwork on the panel being treated. If necessary, wipe down the area being repaired with a cool, damp cloth to manage the panel temperature.
- Do not press either power switch if there is no induction coil fitted, or if there is no workpiece inside the coil.
- Leave the inductor unit and coil(s) to cool down for at least 20 minutes before handling and/or storage.

**Note:** The heat inductor heats ferrous metals and their alloys readily, but has no effect on non-ferrous materials, glass, plastics, wood, cloth and other non-conducting materials.

## Safety Precautions



- Always read and understand these instructions carefully before using the tool.
- Always wear eye protection and heat resistant gloves when using the heat inductor.
- Fumes and smoke from hot/burning adhesives are toxic. Wear a dual filter (dust and fume) respirator mask.
- Do not operate the heat inductor if you have a cardiac pacemaker or any other kind of electronic or surgical implant. The heat inductor will interfere with the operation of cardiac pacemakers and other implanted electronic medical devices, and can cause dangerous heating of any metal items in your body, for example, artificial joints and bone screws and braces.
- The machine has been designed to minimise the risks due to electromagnetic fields. Additional risks exist however, and the operator must keep a minimum safety distance of 30 cm between the heat inductor and the operator's head or chest.
- Anyone who has a cardiac pacemaker or any other kind of electronic or surgical implant must stay at least 6 meters away from an operating heat inductor.
- Do not operate the heat inductor while wearing any metallic items such as jewellery, rings, watches, chains, identification tags, medals, belt buckles, body piercing hardware, etc. The heat inductor can heat these metallic objects very quickly and cause serious burns or even ignite clothing.
- Remove all loose coins, metallic tokens, keys, chains, pocket knives, miniature tools, or any other metallic object in or on your clothing before operating the heat inductor. Do not replace these items until you are finished using the heat inductor. The heat inductor can heat these metallic objects very quickly and cause serious burns or even ignite clothing.
- Do not wear clothing that is made with metallic pocket rivets, waist buttons, pocket buttons, and zippers when operating the heat inductor. The heat inductor can heat such metallic items very quickly and cause serious burns or even ignite clothing.
- Risk of burns: Overheated components can cause serious burns. Do not touch hot objects with bare hands. Wait for the objects and equipment to cool down before touching/removing.

## Safety Precautions

- Do not use the heat inductor within 10 cm of any airbag component. The heat created from the heat inductor can ignite the air bag, causing it to explode without warning. Refer to the vehicle's service manual for precise airbag location before operating.
- Do not use the heat inductor in the rain, moist conditions or let it get wet.
- Do not press either power switch if there is no induction coil fitted, or if there is no workpiece inside the coil.
- Leave the inductor unit and coil(s) to cool down for at least 20 minutes before handling and/or storage.
- Switch the heat inductor OFF at the mains switch before connecting or disconnecting any coils.
- Before use, inspect the unit and power leads for wear or damage. Do not use if power lead or plug is damaged.
- Always maintain the heat inductor in good condition, keeping it clean and dust-free. Never use water, solvents or aggressive cleaning products. Store in a dry, secure area.
- No liability is accepted for incorrect use of this product — do not use the product for tasks it is not designed for. Use the product correctly and with care. Failure to do so may cause damage and/or personal injury and will invalidate the warranty.

## Spares

**Full range of coils available separately, please see part numbers:**

**8682** (6-piece coil set); **8683** (65mm flat coil), **8684** (22mm 90° coil), **8685** (flexible rope coil 1000mm), **8686** (18mm coil x 200mm), **8687** (22 coil x 200mm), **8688** (28 coil x 200mm).



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.



**Safety First. Be Protected.**



**Part No. 8680**  
**UK Plug**



5 018341 086800 >

**Part No. 8681**  
**Euro Plug**



5 018341 086817 >

**RoHS**  
**Compliant**



When you have finished with  
this product please recycle it

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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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