

12 Warranties and Repairs

A Limited Warranty

The Tool Connection Ltd warrants the HEAT INDUCTOR and any parts thereof, to be free from defects in materials and workmanship for one year from the date of first purchase, excluding all attachments, when operated in accordance with the Operating and Safety Instructions Manual.

This warranty is extended to the original purchaser, when proof of purchase is provided. The Tool Connection Ltd will cover outbound ground transportation costs when returning a unit repaired under warranty.

This warranty covers only the cost of parts and labour to restore the product to proper operating condition.

Inbound transportation and incidental costs associated with warranty repairs are not reimbursable under this warranty.

Warranty service is available only through The Tool Connection Ltd.

This warranty does not cover defects resulting from misuse, abuse, negligence; accidents, normal wear, alteration, modification, tampering, or repair by anyone other than the manufacturer.

This express warranty is given in lieu of any other warranty either expressed or implied, including warranties of merchantability and fitness for a particular use.

The Tool Connection Ltd assumes no responsibility for indirect, incidental or consequential damages.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary.

No unit will be warranted without proof of purchase.

Shipping will be at the consumer's own expense. Return shipping will be at the factory's expense for units repaired under warranty.

Return shipping will be with next day courier service, unless the customer wishes to pay for a faster service.

The Tool Connection Ltd is not responsible for lost, stolen, or damaged unit(s) due to shipping. Warranty is non-transferable. When returning a HEAT INDUCTOR, all work coils and accessories must be returned with the unit to qualify it for warranty repair.

Contact The Tool Connection Ltd for return authorisation prior to shipment.

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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LASER[®]

Heat Inductor

Operation and Safety Instructions



- Induction technology, flameless heat, ideal for track rod ends, exhausts and for any seized nuts and bolts.
- Supplied with one of each 22mm coil | 19mm coil | universal rope coil.
- For body shop use when used with the mini pad set (available separately Part No. 5840)



Heat Inductor

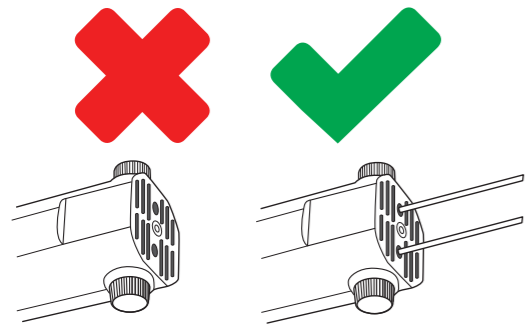
IMPORTANT:

Please ensure you have read and understood these operating and safety instructions before using the Heat Inductor.

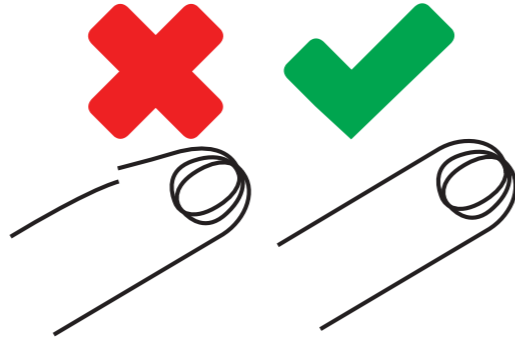
OPERATION AND SAFETY INSTRUCTIONS



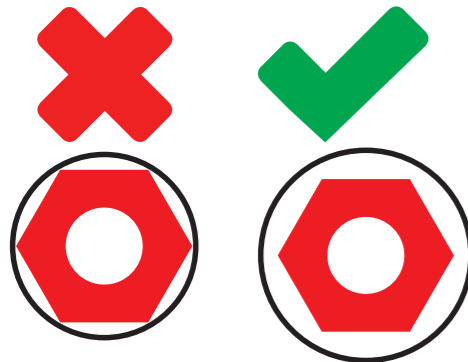
Do not use Heat Inductor without an attachment fitted. Ensure thumb screws are firmly tightened.



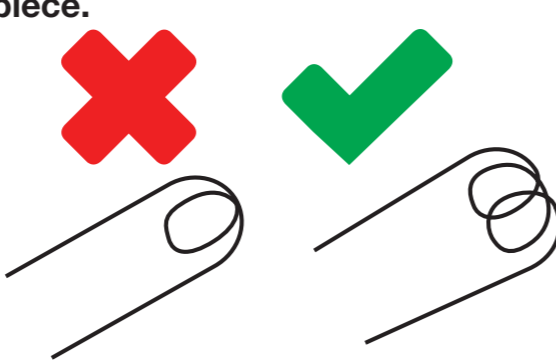
Do not use damaged attachments with the Heat Inductor. Use of damaged attachments can result in damage to the Heat Inductor and affect your warranty.



Choose the correct size attachment for the work piece. Ensure that there is an air gap between the coil and the work piece, 5mm is the recommended air gap.



When using the rope coil, please ensure that a minimum of 2 coils and a maximum of 4 coils are created. Please ensure that the coils are not too tightly wound around the work piece.



Warning and Disclaimer of Use:

While The Tool Connection Ltd has made every effort to ensure the accuracy of the information contained herein, such information is subject to change without notice.

The Tool Connection Ltd provides no warranty with regard to this manual or any information contained herein. The Tool Connection Ltd assumes no liability or responsibility to any person or entity with respect to any loss or damages, direct or indirect, arising from use of the information contained in this document.

10 Disassembly and Storage

- 1) Turn unit off and allow the unit and all attachments to cool for at least 30 minutes before disassembly, cleaning or storage. Handling the unit or parts before they have cooled may result in injury; storage of unit while still hot may result in damage to equipment or pose a fire hazard.
- 2) When you are finished working, turn the power OFF by releasing the power switch and make sure that the internal fan stops.
- 3) Disconnect the plug (5) from the mains outlet or extension cord.
- 4) Once cooled sufficiently place unit and coils into foam cut outs in storage case.

11 Cleaning Instructions

- 5) Make sure the unit is turned off and unplugged. Use a dry, clean, non-abrasive cloth or paper towel to remove grease, oil, and other dirt from the HEAT INDUCTOR and electrical lead before returning them to the storage case.
- 6) For grease, oil and dirt that is more difficult to remove use a non volatile cleaning product.

Allow all components to dry completely before using the HEAT INDUCTOR.

- Do NOT immerse any components of the unit in water or a cleaning solution.
- Do NOT spray the unit with water from a hose, or wash any parts under a stream of water from a tap or shower.
- Do NOT clean any components with volatile organic compounds such as petrol, benzene, kerosene, methyl ethyl ketone (MEK), fuel oil, brake part cleaner, paint remover and thinners, varnish removers, plastic adhesive solvents, etc. These substances are fire hazards and will harden or dissolve the polymer materials used in the HEAT INDUCTOR components.
- Do NOT use heat guns, microwave or gas ovens, etc. to dry the components of the HEAT INDUCTOR.

7 Using The Rope Coil

USES: The Rope Coil can be used to free a bearing race from an axle housing/hub, remove rusted O2 Sensors, remove ball joints & track-rod ends, heat exhaust pipe joints etc.

14. Carefully follow the "Preparation for Use" instructions.
15. Insert one end of the Rope Coil into one of the coil location sockets and tighten the thumb screw securely.
16. Wrap the coil at least 3 times around the work piece to be expanded.
17. Insert the other end into the remaining open coil location socket and tighten the thumb screw.
18. Activate the power switch to run the HEAT INDUCTOR until enough heat has been applied to the work piece to break the rust/ corrosion bond.
19. Release the power switch to turn off the power.

8 Using The Body Pad (Optional)

USES: The BODY-PAD can be used for removing stickers, decals, graphics, bonded glass, emblems, small body side mouldings and pin striping.


20. Carefully follow the "Preparation for Use" instructions.
21. Insert both BODY-PAD ends into the coil location sockets and tighten the thumb screws securely.
22. Activate the power switch to run the HEAT INDUCTOR.
23. Apply the BODY-PAD to the desired part to be removed for a couple of seconds.
24. If you are unfamiliar with this part, test it on an old panel first.
25. Once you are able to begin peeling the part off, re-apply the Mini-Pad to the part, working it down the part while keeping outward pressure until the part is completely removed.
26. Release the power switch to turn off the power.

9 Troubleshooting

The HEAT INDUCTOR inverter is designed to stop running if the internal components become overheated, however, the attachments DO NOT have an overheat shutoff. We recommend a 3 MINUTE duty cycle with the HEAT INDUCTOR. (3 minutes on – 3 minutes off)

If the unit stops suddenly: check to ensure unit is still plugged into a functioning AC power outlet. Also be sure if using an extension cord that there are no cuts in the cord.

Allow the unit to cool off for at least 30 minutes and then retry. If you are still having problems contact service@toolconnection.co.uk.

 If there is a lack of power output, this may be from using an improper extension lead or a damaged attachment. The proper gauge and length of extension lead is 10 metres - 1.5mm or 20 metres - 2.5mm. Do not use more than one extension cord at once.

For other problems please contact service@toolconnection.co.uk

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1 Safe Use of the Heat Inductor

A General Safety Rules



Please be sure to read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- Please ensure that the work area is well ventilated, dry and clear of obstacles.
- Always keep the work area clean and well illuminated.
- Keep bystanders, children, visitors and animals away while operating the Heat Inductor, these may create distractions.
- Keep a fully charged fire extinguisher or Fire Blanket at hand at all times when using the Heat Inductor.
- Ensure no flammable products are near the work area while using the Heat Inductor.



B Personal Safety Rules



- If you have a cardiac pacemaker or any other kind of electronic or metal surgical implant DO NOT operate the tool, and always stay at least 1 metre (three feet) away from anybody operating a Heat Inductor.
- Although the magnetic fields emitted by the tool only travel a few inches, they pose a dangerous risk to the proper operation of all implanted medical Electronic devices in the user and any bystanders.
- Do not use the Heat Inductor within 150mm (6 inches) of any air bag component. The heat created by the Heat Inductor can ignite the air bag squib propellant causing it to explode without warning. Refer to the vehicles service manual for precise air bag location before operating.

Coils, rope coils and Body Pads will be hot after use, please take great care when fitting/removing.



- Do not operate the Heat Inductor while under the influence of drugs, alcohol or any medication.
- Do not operate the Heat Inductor while wearing any metallic items such as jewellery, (including rings, watches, chains, identification tags, body piercing) or belt buckles.
- The Heat Inductor can heat these metallic objects very quickly and cause serious burns or even ignite clothing.
- Remove all loose coins, keys, chains, pocket knives, miniature tools, or any other metallic object in, or, on your clothing before operating 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 contains metallic rivets, waistband buttons, pocket buttons or zips when operating the Heat Inductor.
- The Heat Inductor can heat these metallic objects very quickly and cause serious burns or even ignite clothing.
- Always wear safety goggles when using the Heat Inductor.
- Fumes and smoke from hot/burning adhesives are toxic. Wear an appropriate dual filter (dust and fume) mask.
- Wear heat-resistant gloves when using the Heat Inductor as it heats metal very quickly. You can easily burn your hands and fingers when trying to remove parts from hot metal surfaces.

5 Using The Preformed Coils

USES: The Preformed Coil™ is used to heat nuts, fasteners, caulking removal, door hinges, exhaust manifold bolts, Sensors (O2) etc.

The working life of the Preformed Coil can be maximised by only heating objects enough to break the rust bond. Leaving an air gap between the coil and the work piece is recommended as the insulation of the coil will eventually burn through if held directly to hot material.

1. Carefully follow the “Preparation for Use” instructions.
2. Choose the appropriately sized coil to give the closest fit to the work piece
3. (Nut/bolt etc) ensuring an air gap of 5mm.
4. Insert both ends of the coil into the coil location socket and tighten the thumb screws securely.
5. Place coil centrally over the work piece.
6. Activate the power switch to run the HEAT INDUCTOR until enough heat has been applied to the work piece to break the rust/corrosion bond.

Tip:

There is usually no reason to heat a nut to a red-hot condition in order to free it from the corrosion holding it to the bolt.

7. Release the power switch to turn off the power.

6 Using The You-Form Coil

USES: The You-Form Coil can be shaped to perform any of the preformed coils jobs and can be shaped to fit non standard fixings etc.

8. Carefully follow the “Preparation for Use” instructions.
9. Configure the coil to the size of the work piece by wrapping it around a socket or similar.
Tip:
3-4 coil winds is the optimum number.
10. Insert both ends of the YOU-FORM coil into the coil location sockets and tighten the thumb screws securely.
11. Place coil centrally over the work piece.
12. Activate the power switch to run the HEAT INDUCTOR until enough heat has been applied to break the rust/ corrosion bond.

TIP:

There is usually no reason to heat the work piece to a red-hot condition in order to break a rust/ corrosion bond.

13. Release the power switch to turn off the power.

3 Principles of Operation

The power lead, when connected to a mains outlet ensures a properly grounded 230 VAC power input connection. The power unit (1) steps up the 230 volt, 50 Hz alternating line current. A preformed coil (7), the Rope Coil (8), YOU-FORM Coil (9), or BODY-PAD (10), is inserted into the coil location sockets (13) and then secured into place with the thumb screws (14). The coil then converts the current to a high frequency alternating magnetic field.

This magnetic field crosses the metallic, conductive work surface (e. g., The Nut/Bolt) and vibrates the electrons in the metal through the principle of electromagnetic induction.

The kinetic energy of the moving electrons is dissipated as heat, which rapidly heats metal within the tool's working range.

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.

The power switch (12) is used to turn the Power unit on and off. Push it in to turn on power to the unit. The unit will remain ON as long as pressure is applied to the switch.

Remove pressure from the switch to turn the power OFF. Unplug the HEAT INDUCTOR when not in use.

4 Preparation For Use

Carefully read and understand all safety warnings and instructions in this manual before operating the HEAT INDUCTOR. PAY PARTICULAR ATTENTION TO THE SAFETY RULES IN SECTION 1.

A Generator and Inverter Use

The HEAT INDUCTOR is designed to operate from a normal 230 volt alternating current (VAC), 50 Hz (cycles per second) mains outlet, and will operate without suffering damage on voltages of up to 250 v AC.

B Generator

Some portable generators, particularly low-cost units producing 4kW or less, are unregulated and can produce in excess of 250 VAC which will damage the unit and void the warranty. If you are in any doubt concerning the generator that will be supplying power to the HEAT INDUCTOR have a professional electrician measure the generator voltage with a digital voltmeter.

Measure the voltage with the generator engine warm and under no load. With some generators the voltage may be reduced by decreasing the engine speed.

C Inverter

DC to AC Inverter operation; Use only 2kw or larger sine wave inverter.

The use of square or quasi-sine wave inverter will void the warranty.

Please get in contact with The Tool Connection Ltd before using your HEAT INDUCTOR for instructions on how to proceed if you have any questions regarding the instructions above.

C. Electrical Safety Rules



Do not fit or remove a coil, rope coil or Body Pad with the Heat Inductor plugged into the mains.

- Before plugging in the Heat Inductor, make sure that the outlet voltage supplied is compatible with the voltage marked on the label and within 10% of the stated voltage. An outlet voltage incompatible with that specified on the label can result in serious hazards and damage to the Heat Inductor.
- Ensure the Heat Inductor is connected to a supply that is adequately earthed. (Grounded)
- Do not use the Heat Inductor in the rain, moisture or immersed in water. Exposing the Heat Inductor to water or other liquids can cause an electrical shock hazard.



- Do not use any attachments except for those supplied by The Tool Connection Ltd, use of non approved attachments may cause damage to the Heat Inductor and invalidate your warranty.

- Do not leave the Heat Inductor plugged into the mains when not in use.
- Damaged cords create electric shock hazards - Do not kink, bend, crush or cut the mains electrical lead. Never carry the Heat Inductor by the mains electrical lead.
- Keep the lead away from heat, oil, sharp edges and/or moving parts.
- Do not use the Heat Inductor if the lead is damaged. Leads cannot be repaired, only replaced.



Do not use any attachment with damaged insulation, use of damaged attachments can result in sparking and can cause a fire hazard. Use of damaged attachments will invalidate the warranty.

HEAT INDUCTOR SHOULD NOT BE USED CONTINUOUSLY FOR MORE THAN 3 MINUTES ON ANY MATERIAL

D Fire Hazard Safety Rules



It is dangerous to heat paint/ aerosol cans, or any other pressurised or sealed containers used for storing fuels, compressed gases, and liquids.

The heat generated by the Heat Inductor can cause these containers to explode and their contents to ignite. Do not attempt to heat these items using the Heat Inductor

- Do not use an attachment if the insulation has been breached. If insulation has been breached it can cause sparking when contacting with a vehicle. This could be a fire hazard especially when working on, or near fuel lines and/or fuel tanks.
- Use of damaged attachments will invalidate the warranty.



E Tool Safety

Do not use the Heat Inductor without an attachment fitted. Ensure attachment is securely located and thumb screws are firmly tightened.

Do not use the Heat Inductor for longer than the stated duty cycle: THREE minutes on followed by THREE minutes off.



- The main circuit board has an overheat protection device, however the attachments do not have overheat protection so should not be used for more than THREE minutes of continued use.
- **Please ensure that the cooling fan is running when the power switch is operated, if the fan does not run DO NOT use the Heat Inductor and contact The Tool Connection Ltd.**

Do not attempt to create more than 4 coils using a "YOU-FORM" or rope coil, a minimum of 2 coils and a maximum 3 to 4 coils is the optimum number needed for best operation.

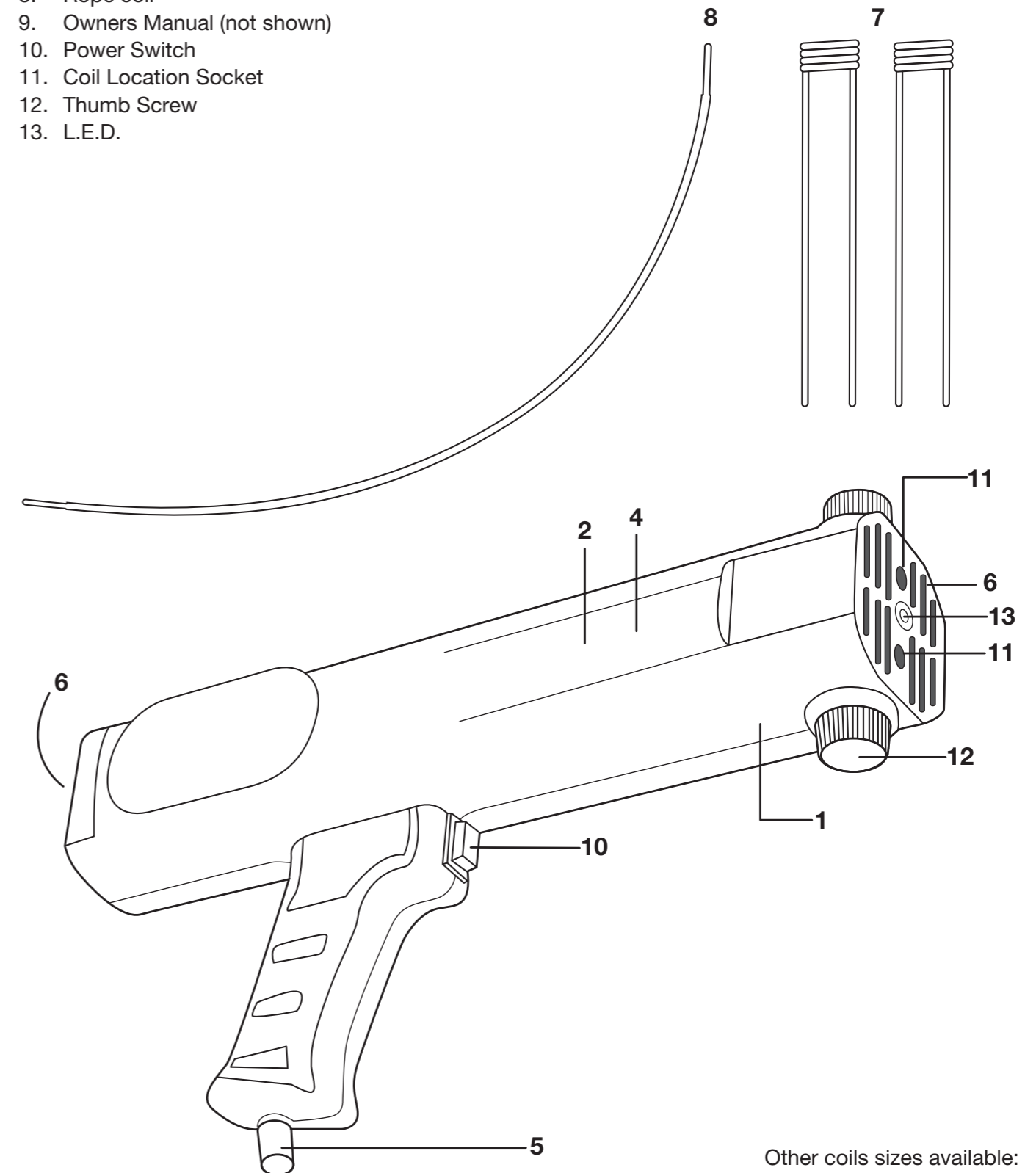
The Heat Inductor should not be left unattended whilst switched on.

- In order to cool effectively, and prolong the life of your Heat Inductor, always ensure that there is a sufficient supply of clean air, make sure that the vents of the Heat Inductor are clean and free of dust and debris so that the Power Unit has an unimpeded flow of cooling air.
- Do not attempt to repair or service the Heat Inductor. There are no User-serviceable parts besides replacing the coil attachments.

Please contact The Tool Connection Ltd at service@toolconnection.co.uk for repair or service.

2 Components

1. Power unit
2. Serial Number
3. Storage case (not shown)
4. Model number
5. Cord and Plug 230v AC
6. Vent (end)
7. 2 x Preformed Coil - 19mm
8. Rope coil
9. Owners Manual (not shown)
10. Power Switch
11. Coil Location Socket
12. Thumb Screw
13. L.E.D.



Other coils sizes available:
Part No. 5841