



## Precautions

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## Hybrid Plastic Stapler and Welder



**Safety First. Be Protected.**

**Always wear heat resistant gloves when using the instrument and making repairs.**  
**Always wear eye protection when cutting staples.**

- Once heat is applied, the staple will become extremely hot. (100-200°C). Do not touch without full protection.
- Failure to use the melting knife correctly may result in fire, damage and / or personal injury.
- Keep hands and body clear of the staple and / or melting knife when operating as it becomes very hot.
- Do not use with wet hands
- Do not soak instrument with water
- Do not use in wet conditions
- Turn off when unattended and make sure the tips are cold before leaving on any surface.
- Do not use for any purpose other than that it is intended for.
- Make sure all health and safety procedures are in place before commencing work.

**The Tool Connection cannot be held responsible for any damage caused to property or personnel when using this product.**



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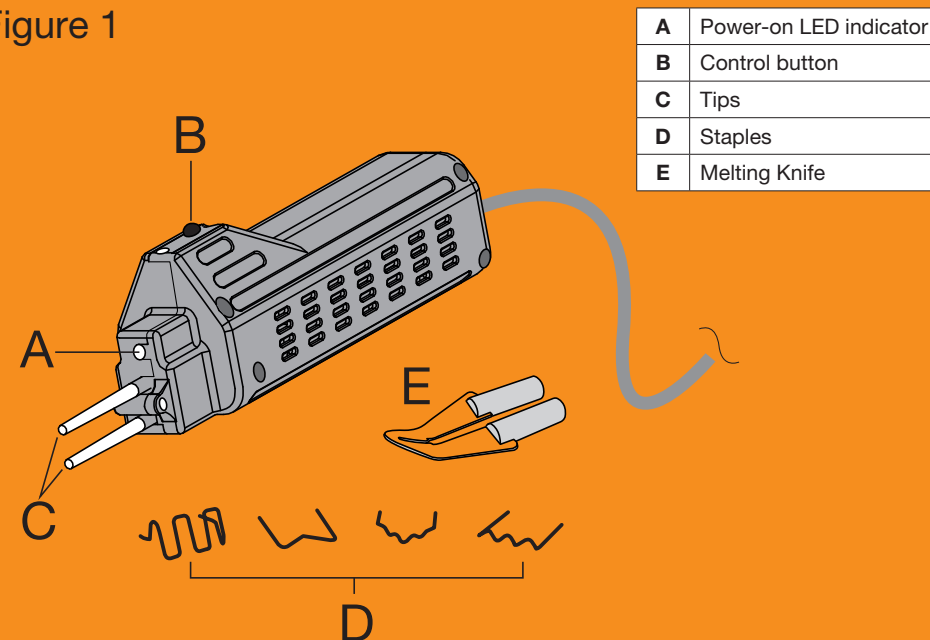
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### Guarantee

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.

- Part of the Power-TEC range of hot staplers and plastic welders; repairs plastic components in many areas including car workshop, industrial and home use.
- Supplied with 100 assorted precut staples.
- Includes melting knife for plastic welding repairs. Can also be used with mesh (not included) for filling holes in plastic bodywork and bumpers, etc. Tip of melting knife can also be used for soldering.
- Supplied with convenient and sturdy carrying case.

Figure 1



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## Hybrid Plastic Stapler and Welder

### Operation:

Note: It is worthwhile practicing on some scrap plastic components to familiarise yourself with how much heat needs to be applied (length of time control button **B** is depressed) to get a staple to a temperature where it will slide into the plastic being repaired, and to get a feel of how much pressure is required to ensure that you don't push straight through the component. Red hot is too hot - release control button. Similarly with the melting knife **E**, practice on some scrap plastic to become familiar with keeping the knife at a temperature (releasing control button when the knife becomes too hot, the depressing it again as it cools), that will let you weld and work the plastic. Again, red hot is too hot.

### Hot Staple Repair:

- Plug in to standard UK 240v system. The Power-on LED indicator **A** will light up.
- Clean the plastic surface to be repaired of any contaminants prior to repair.
- Choose suitable staple for type of repair and insert it into the tips. Staple arms can be bent if required to achieve access.
- Prepare plastic for repair by butting together
- Heat staple by pressing and holding the control button **B** for 4-8 seconds (see note above - do not let staple become red hot).
- Press the staple gently against the plastic to be repaired; push staple until it is about half way through material, then twist through about 10-15°.
- Release control button **B** and hold the staple on the repair until the plastic cools and it feels firm.
- Slowly withdraw the tool, leaving the head of the staple in place.
- Cut off the protruding ends of the staple with side cutters or similar. Hold on to protruding ends during the cutting operation. (Wear eye protection).
- When repairing large areas or long cracks, repeat the procedure at 1-3cm intervals.
- Remove the remaining ends of the staple with sander.
- Continue with repair in the normal way.

### Plastic Welding Repair:

With experience, many uses can be found for the plastic welding melting knife **E** attachment. An example of a repair is outlined below:

#### Repairing a split or crack in a plastic bumper:

- Using a mini-sander or belt-sander fitted with a 120-180 grit disc, remove paint and primer from the surrounding area and bring the level of the surface down around the area to be repaired. Then feather off with a DA sander.
- Fit the melting knife **E** over the tips **C** of the instrument. Press down so that it fits securely.
- Plug in to standard UK 240v system. The Power-on LED indicator will light up.
- **Be aware** that the melting knife gets very hot in use and can cause serious burns if handled. Take care to keep the tips and melting knife away from flammable objects.
- If the split goes to the edge of the panel, it is recommended to reinforce with a hot staple inserted at the top edge of the split. The edge is held straight and flush as the staple is applied.
- If necessary, stainless steel reinforcing mesh (not supplied) can be cut to size. For a split it will be cut to strips about 12-25 millimetres wide.
- Heat melting knife by pressing and holding the control button **B** for 4-10 seconds (see note above - do not let melting knife become red hot).
- When the melting knife has come up to temperature initially tack the mesh onto the end of the repair. The hot melting knife is used to heat the mesh and soften the plastic of the panel as the mesh is pressed into the plastic. As the melted plastic comes through the mesh it can be smoothed over with the melting knife.
- If the crack or damaged area follows a curve, the stainless steel mesh can be formed to also follow the curve. The intention is to bury the mesh below the surface of the plastic, smoothing off with the melting knife as you proceed.
- If required, to bring the level of surface back up and to add strength, welding filler rods (not supplied) can be used to add material. Use the correct type of welding rod for the plastic substrate being repaired.
- Remember that you can stop repair and then recommence at any time. This is a heat-based process. You are not dependant on any chemical curing so you can stop and start when convenient.
- The repair is then sanded down to continue with the preparation and painting.

### Overheating Protection:

If the instrument overheats, it will switch itself off; the The Power-on LED indicator **A** will also go out. After cooling, the Power-on LED indicator will light up and the unit will be functional again.