Orbi-Tech

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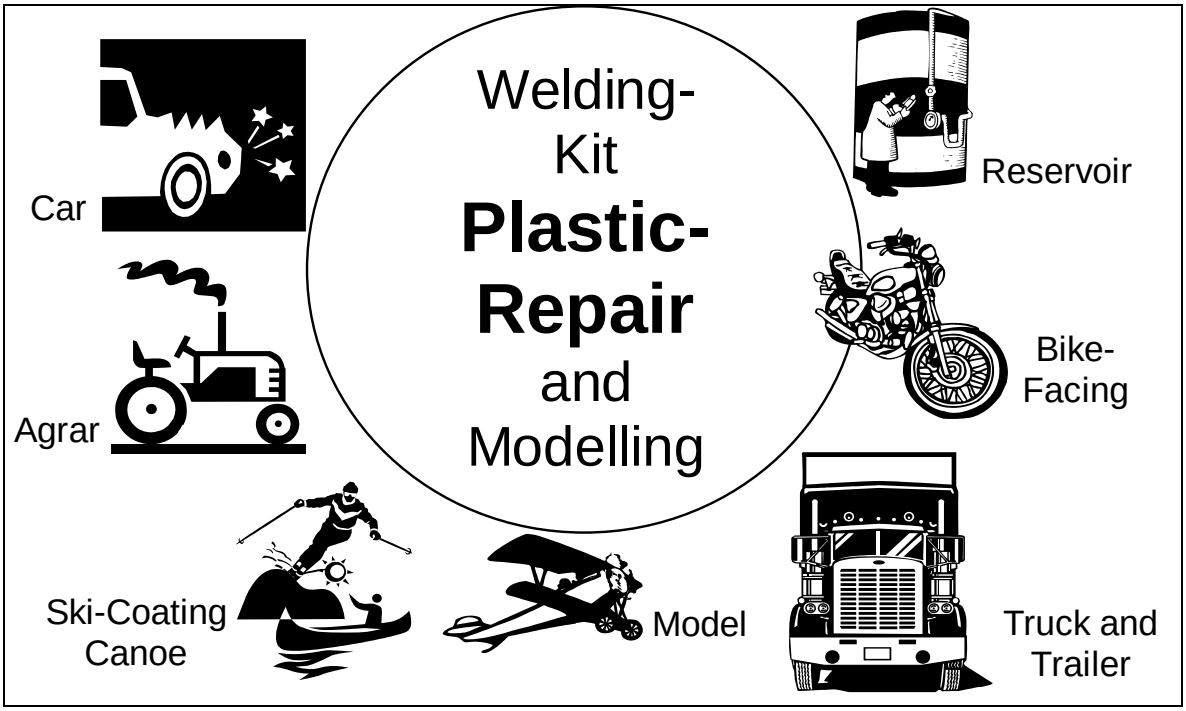
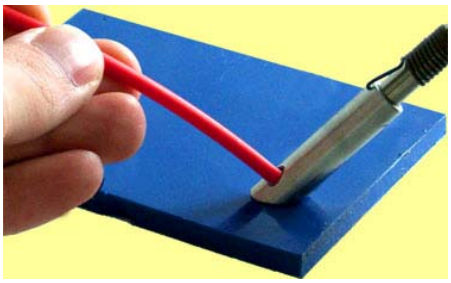
Plastic-Repair-Kit T-80



Kit consists of:

Description

1. Welding Iron
   with higly precise Temperature Control
2. Standard Welding Tip
3. Stand for Iron
4. Piston for Welding Rod
5. Brassbrush
6. Handbook
   Material to be used up:
7. Stainless reinforcing grid
8. Heat transfer powder
   Welding Rod, 10 x 100 mm
   Sticks in following Thermoplastics:
9. **ABS** (Acrylnitryl Bautadien Styren)
10. **ABS/PC**
11. **PC** (Polycarbonat)
12. **PE** (Polyethylene)
13. **PP** (Polypropylene)
14. **PP flex** (Polypropylene flexible)
15. **PS** (Polystyrene)



Everything as complete Kit in a robust Carrying- and Transport- Case (Changes possible).

Includes all you need for quality plastic welding.

Technical changes and errors excepted.

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ADVANTAGES

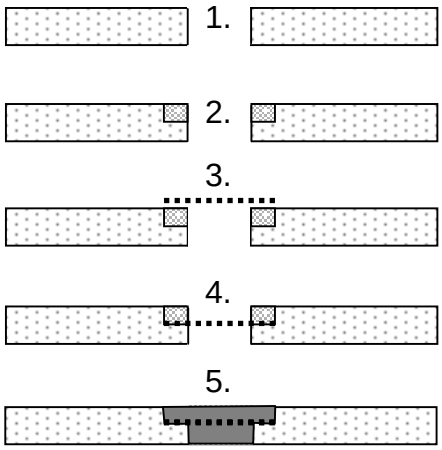
Using adhesives for PE and PP many people have tried .....
This new economic principle opens a wide field of applications and business opportunities.
It is easy to learn and practice (without special training).
Tool makes no noise.
Low weight.
Heat transfer through contact versus hot air: Welding work can be made next to heat sensible parts (for example cables, textiles, foams).
Often welding temperature is lower.
Thin parts and sheets can be welded. No uncontrolled heat transfer which means less wrinkles in the parts to be welded. Using hot air heat can not be applied as exactly which means less problems burning holes into parts you want to weld.
No Oxidation of parts by hot air.
Oxidated layers on welding rod and parts to be welded normally do not need to be grinded away before welding work can start.
Method requires only small space. Ideal method to close small and bigger holes.
Problematic plastics that absorb water are much easier to be welded (for example ABS, PC, PA).
Small power consumption required.
Even foamed plastics can be welded.

Customized tips you can get on request.

Repair-Method with standard tip:

The method is described below (see Numbers in drawing):

1. Part you want to repair weld (destroyed part).
2. Use welding iron to melt area around destroyed part.
3. Patch on reinforcing grid (stainless).
4. Push reinforcing grid below surface.
5. Fill up with plastic to smoothen surface.



The result is a strong reinforced repair weld. The surface is closed and smoothened using the same (parent) type of plastic.

For years we are supplying welding technology. We are producing customized welding rod for prototyping, repairs and fabricating. Our customers are leading producers of plastic products in the industries automotive, housekeeping (for example dish washers and laundry machines), construction, water and environmental technology. Developing welding irons we have been using our long experience in plastic welding.

Experience that you can use.