



Plastic Welding Kit (Euro)



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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The Plastic Welding Kit has been developed to offer an affordable means of repairing most plastic panels used in the automotive industry.

Due to the high costs associated with the replacement of plastic panels (bumpers, inner wings, headlamp bodies, engine covers, motorcycle body work, etc) the kit was developed for those small to medium sized repairs that could render a panel unusable.

The filler rods used in the 92359 kit are suitable for most types of automotive thermo and thermo-hardening plastics (see applications below) the rods are made up of a combination of polypropylene reinforced fibreglass and carbon fibre which combine with the parent material to give a strong repair.

The kit utilises a stainless steel wire mesh that is first cut to shape (the Tool Connection recommend Power-TEC Technicians scissors (92318) to cut and shape the mesh), this mesh patch is then melted into the surface of the damaged area using the welding iron to provide a strong foundations for the plastic infill rods to melt through.

The combination of the mesh and the plastic infill rods being melted into the parent material form a very strong and permanent repair. With care the repair can be made from the rear of the panel and therefore remain unseen and require little or no re-finishing.

Applications:

Thermo-plastic types – PP/EPDM, PP, TPO, TPE, TPU, TPUR, PE
Thermo-hardening plastic types – PUR, RIM, RRIM, EEBC, EMA

Ref:	Available Separately	Description
A		Welding Iron (euro plug type) 230v 13 amp ac.
B	92361	Wire mesh sheets, 2 pc
C	92360	Plastic filler welding rods (pack of 10)
D		Iron stand

Preparation

1. Clean the area to be repaired to ensure it is free from dirt and grease
2. Cracks should have their ends drilled through to relieve any stresses that could cause further cracking
3. grind back the surface of the repair area to a depth that will allow the steel mesh to sit into the repair

Instructions

1. Plug in the Welding Iron and leave to heat up (approximately 5 minutes dependent on ambient temperature), place the iron on its stand on a flat surface.

Beware, the iron will get very hot do not touch any part of the iron other than the handle or wire.

2. Cut the mesh to size and shape as required
3. Melt the steel mesh into the area being repaired till the parent material can be seen penetrating the mesh (Fig.1)
4. Melt the plastic filler rod into the surface of the mesh and into the edges of the repair so the filler rod covers the repair. Build up the repair to the required depth (Fig.2)
5. Allow the repair to cool fully. Where required the repaired area can be sanded off for refinishing.

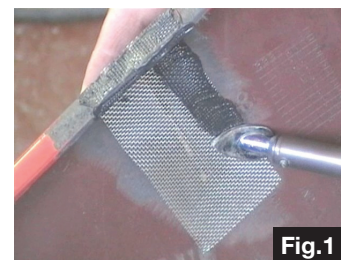


Fig. 1

Ensure the parent material penetrates through the mesh



Fig. 2

Melt the filler rod into the mesh and build up to the required depth. Be sure the filler rod melts into the parent material

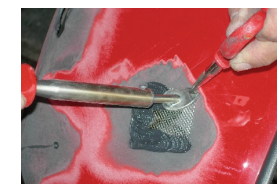
Examples of repairs:



Plastic panel fixing points



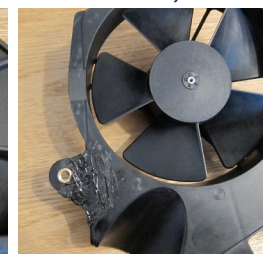
Headlamp mounting brackets



Bumpers, fairings, inner wheel arches, etc.



Cooling fan mounting – before repair



After repair