

Duplicate the repairing technical procedure
used by the car manufacturer

The technique of fine repair without puttying restores the sheet metal accurately through the updated technology and advanced equipment. It does not use putty and other materials that damage the sheet metal to fill holes, The repaired workpiece can enter into painting process directly. It fully reaches the thickness of the original car paint to ensure that the original car standard can be restored without damage, and fully retains the value of the original car.

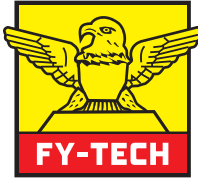
FY-TECH training



Comparison of repair effects



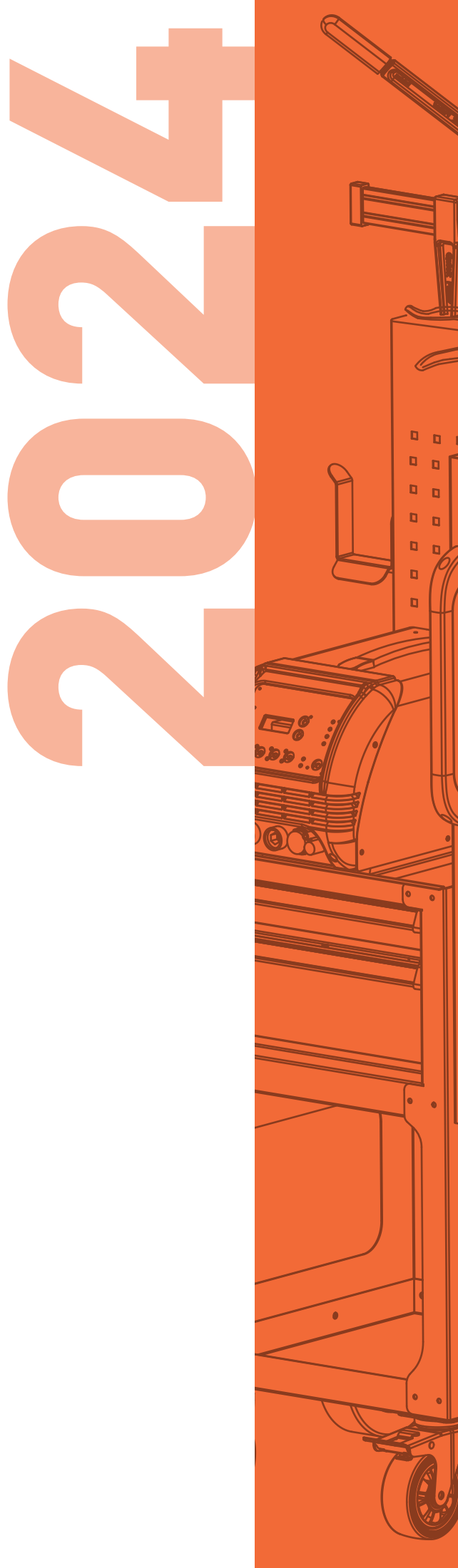
Application cases



LET'S SHOW YOU AN AMAZING TECHNIQUE

Car body fine repair without puttying

Equipment subject to change without notice. This catalogue is for reference only the actual products serve as standard (2024 version)



Introduction of car body fine repair

Car body sheet metal fine repair means repairing damaged car outer panel precisely to restore its original statue. Users do not need to apply putty due to good paint adhesion, which get rid of puttying process and is closer to the original factory craftsmanship.

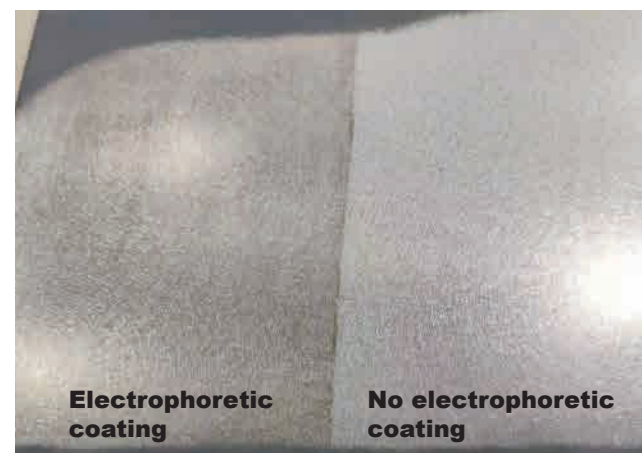


Defects in Traditional Collision Repair

- ◆ After repairing the outer plate by dent pulling machines, the defects are more obvious such as burn-through and high spots.
- ◆ The panel surface is uneven and not flat enough.
- ◆ Refilling burn-through holes by carbon rod + metal wire is an inefficient way which can burn and damage further the panel.
- ◆ Use instant shrinking or water cool shrinking, but the internal burned parts are not treated.

Car body fine repair remedies the deficiencies

1. Repairs without puttying, so there will be no color changes caused by putty blistering, cracks, varnish loss of gloss and color in humid weather or high temperature that occurred frequently in the traditional body repair process.
2. Due to the upgrade of equipment, the internal anti-corrosion layer of the sheet metal will not be damaged regardless of the processes such as stretching, shrinking, and shaping. After the sheet metal repair is completed, the repaired sheet metal will be electrophoresed to prevent rust and oxidation, thereby eliminating its potential corrosion and rust.



Car body anti-oxidation electrophoresis liquid can prevent oil stains, dust and rust on the surface of the car body and is especially suitable for the surface treatment of steel, zinc and aluminum. It can enhance the binding force and corrosion resistance of the coating to improve the surface state of the workpiece.

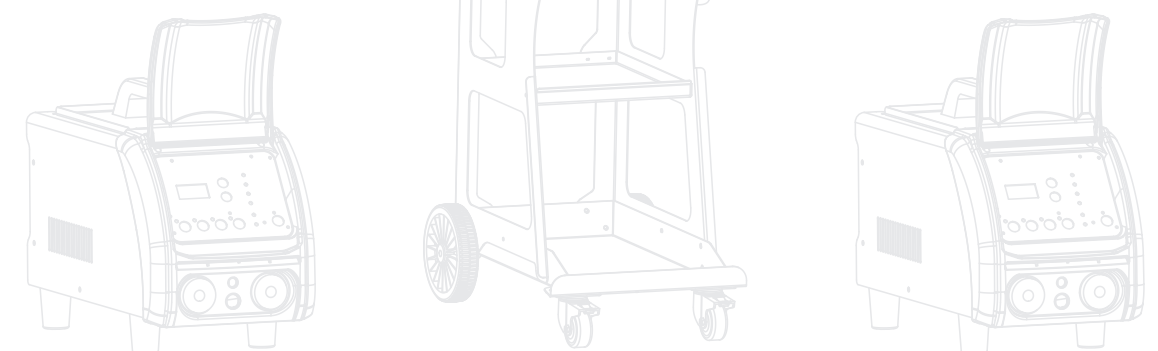
Which vehicles are suitable to car body fine repair without puttying



- ◆ New vehicles within 3 years after production
- ◆ Vehicle value more than \$30,000
- ◆ Customers who have high requirements for vehicle sheet metal and paint
- ◆ Customers who care about vehicle value preservation
- ◆ Second-handed vehicles

Advantages of project promotion

- 1 To improve clients' satisfaction and the reputation of 4S workshop.
- 2 To provide different options to clients, so they can choose repair skills freely
- 3 To improve the technical influence of the store and increase customer loyalty
- 4 Life-time guarantee the quality of no-putty sheet metal paint surface
- 5 Sheet metal repair does not damage the internal anti-corrosion layer of the car body
- 6 High-quality repair craftsmanship can reach the original factory craftsmanship



Car body sheet metal fine repair equipment

Six highlights, comprehensive improvement

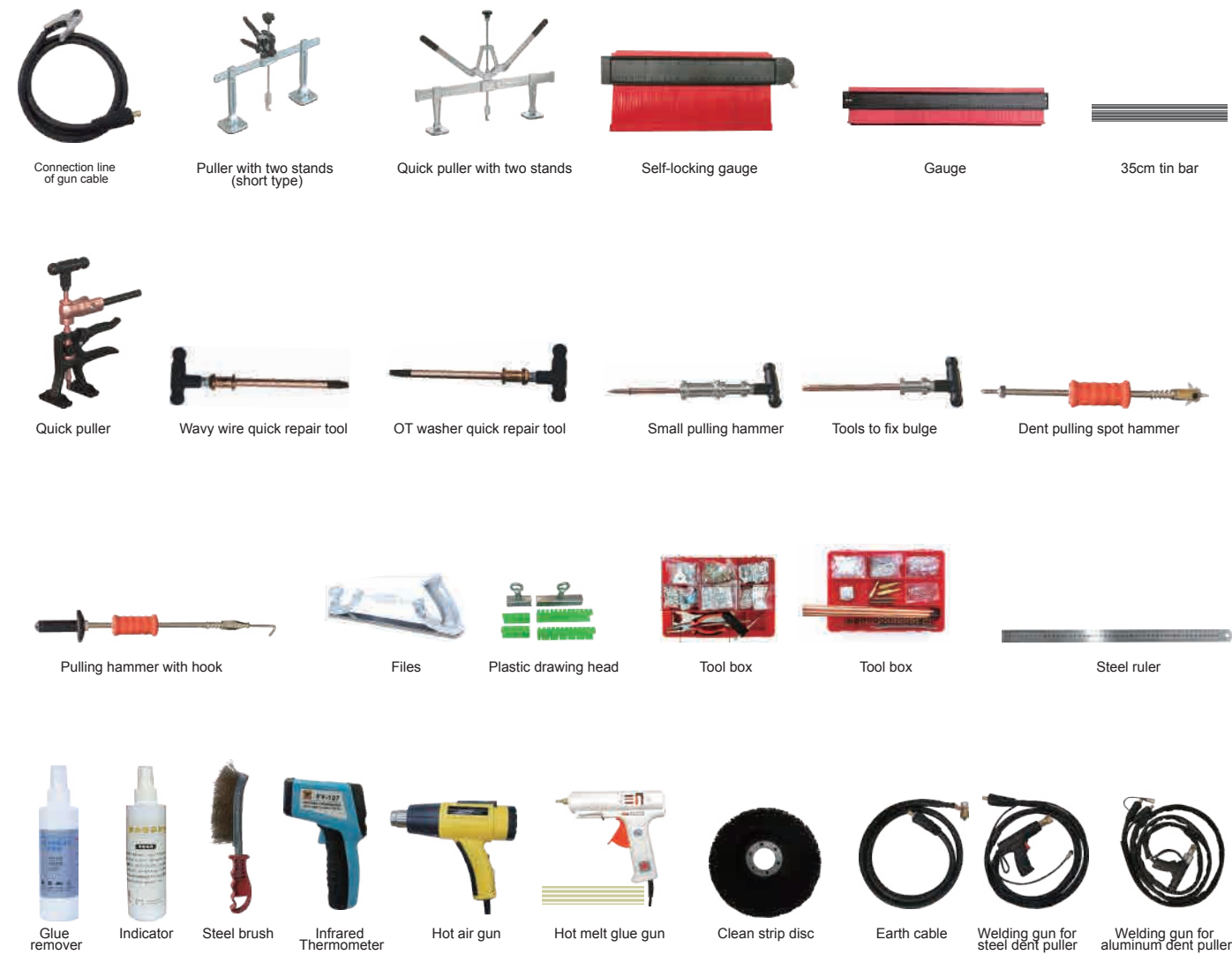
- ◆ More application configuration and more powerful function
- ◆ Advance control system—Auto and Manual welding are available
- ◆ Welding without spark
- ◆ Quick repair without paint damage
- ◆ Updated technology
- ◆ Setting with a single button

FY-9016L (Specifications)			
Model	A Machine	Model	B Machine
Inputvoltage	220V or 380v ±15% 50/60Hz	Inputvoltage	220V±15%
Rated inputpower	2KVA	Rated inputpower	2KVA
Rated inputcurrent	16A	↔ $\frac{A}{V}$ ↔ Max	7500A
↔ $\frac{A}{V}$ ↔ Max	3200A	Fuse	10A
Insulation grade			H
Out putvoltage	1-13V	Capacitance	7200UF
Operation way	electronic time continuously	No-load voltage	50-150V
Welding time	10-99s	Spottadle stud diameter	Ø3-6MM
 mm	0.6+1.2mm	Weldeng mode	Dent pulling
 Reg	stepless	Duty cycle	80%
Machine Size	22x39x32cm	Machine Size	20x42x26cm
Machine Weight	25kg	Machine Weight	20kg
Cart Size	45x64x145cm		
Cart Weight	29kg		



FY-9016L

standard combination



Optional combination



Car body sheet metal fine repair equipment

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FY-9011L



FY-9013L

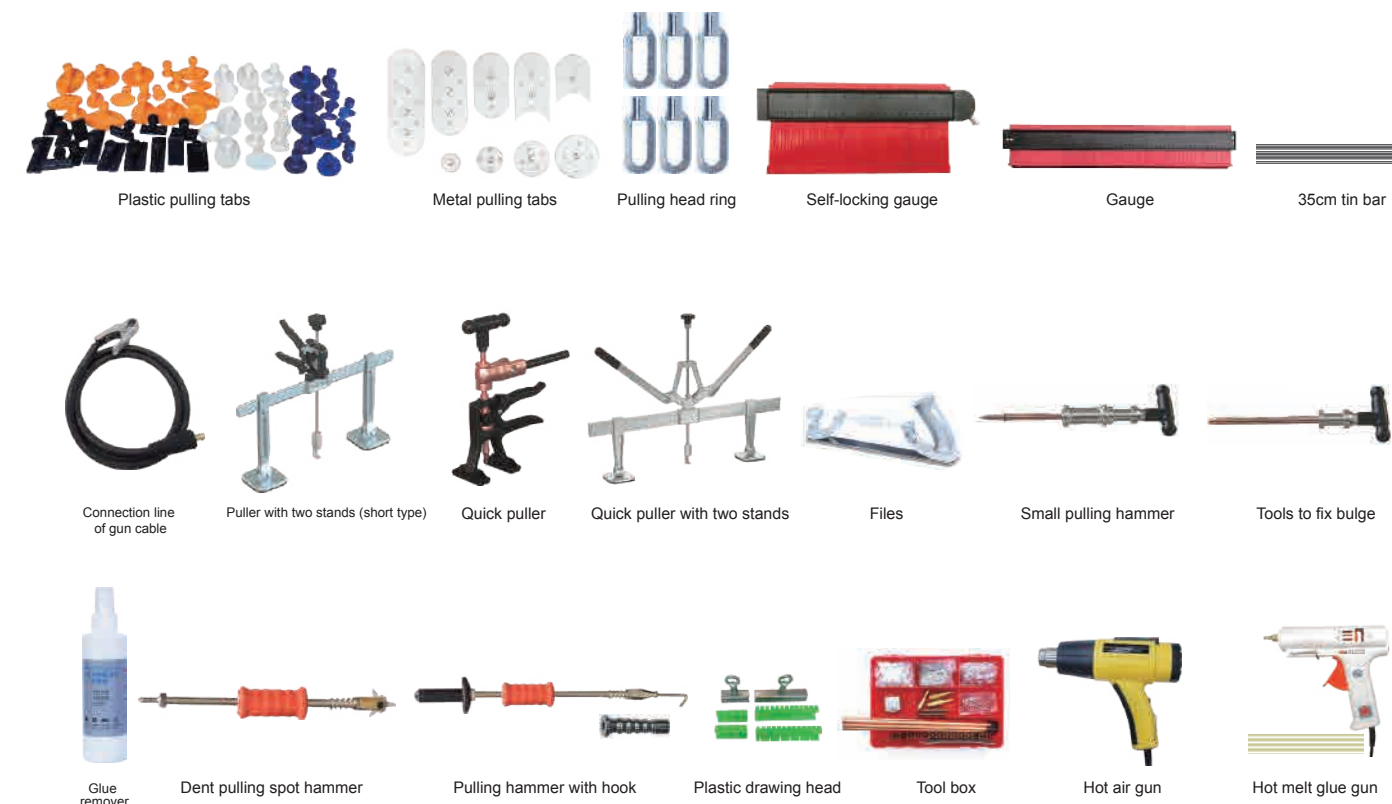
No putty

No damage to car body

Original technology

Intensive and fine repair

FY-9013L standard combination



FY-9011L standard combination



Optional combination



Features

- ◆ Microprocessor control system optimizes the welding parameters. Due to the adoption of advanced digital control technology and humanization design, all you have to do is select the welding current corresponding to the workpiece thickness to achieve the best weld quality
- ◆ Welding gun testing function to evaluate the using status of welder more completely.
- ◆ With overheat protection.
- ◆ Suitable for dent pulling of different kinds of car steels such as conventional steel, stainless steel, etc.
- ◆ Various of welding procedures are available such as shrinking, washer, direct-pulling, spot welding, flattening, wavy wire, stud welding, OT washer, triangle washer, etc .
- ◆ Direct-pulling hammer with insulated protection.
- ◆ Digital control system with steady power output
- ◆ Setting the data of welding power and time is available. The welder can automatically save the data.
- ◆ With automatic welding function, effectively reduce the user's labor intensity and improve efficiency.
- ◆ Spot welding small strength enough, do not hurt the back. Pulse function of flattening and collecting fire zone, local quick repair.
- ◆ Equipped with special puller and slide hammer, easy to use

Specifications							
Model	Input voltage ±10%	Rated input power	Rated input current	$\leftarrow \frac{A}{V} \rightarrow$ Max	Output voltage	Cart size	Cart Weight
FY-9013L	220V or 380V ±15% 50/60Hz	12KVA	16A	3200A	1-13V	48x51x158cm	48kg
FY-9011L	220V or 380V ±15% 50/60Hz	12KVA	16A	2800A	1-13V	42x72x89cm	25kg

Model	Operation way	Welding time	mm	Reg	Machine Size	Machine Weight
FY-9013L	electronic timer continuously	10- 99s	0.6+1.2mm	stepless	22x39x32cm	25kg
FY-9011L	electronic timer continuously	10- 99s	0.6+1.2mm	stepless	22x35x25cm	22kg

Optional Collision Repair Tools (Pullers)



POM Dollies

Aluminium Dollies

Optional Collision Repair Hammers



FY-AL801



FY-AL802



FY-AL803

Lightweight aluminum
hammers for body repair



FY-ST01



FY-ST02



FY-ST03

Stainless steel collision
repair tools



FY-ST04



FY-ST05



FY-ST06



FY-ST07



FY-ST08



FY-SS601



FY-SS602



FY-SS603



FY-SS604



FY-SS605

Process of car body sheet metal fine repair

