We have come a long way together.

Dent Fix Equipment celebrated its 40th Anniversary in 2019. We have had great partners throughout the years and I want to thank each and everyone of you.

From the warehouse that stocks our equipment, to the distributor that works every day going from shop to shop, and finally the shop and technicians that put our tools to work. Thank you, from my crew here at "THE FIX".

Founded in 1979 by my father, Max Spitznagel, with one tool, the DF-1 Spitznagel Stud Welder. The first and original stud welding system from Germany that changed the way technicians repaired dents on steel. The high-quality tool set the bar for us on quality and sent us down the road to where we are today. Can you imaging screwing holes into car panels to pull out dents? Well, I talked with a mobile distributor just the other day who had a shop doing just that. We still have our work cut out for us, our mission to help with the collision repair process is still our number one priority. We no longer offer the original stud welder, we now have our “Maxi” DF-505 series. Times have changed and so has Dent Fixing.

It is the work of continual advancement and huge potential of the collision repair industry that drives us every day. We do it with quality tools and the highest customer satisfaction as our foundation. This principle was set by that stud welder 40 years ago.

From day one, we have offered our customers the finest and that trust we hold with you will not diminish in the next 40 years.

All the best,

Erik Spitznagel

Collision Repair Equipment & Tools for Premier Body Shops

DENT FIX EQUIPMENT
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GARDENA CA 90249-2505

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Phone: (310) 349-1940
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Instagram: @denfixequipment
Email: info@dentfix.com
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NOTICE: Equipment and tools listed in this catalog are subject to change based on Dent Fix’s discretion. For an update tool listing please call or visit our website www.dentfix.com
Simply the BEST
Since 2006 we have been perfecting the most capable aluminum stud welding repair station. This is our most complete unit.

The DF-900DX/E Aluspot Extended includes everything that the Ford Approved Aluspot (DF-900DX) has PLUS Aluminum-Head Hammer Set (DF-AH714), POM Nylon Dolly Set (DF-AB712), two more storage drawers, an in-cabinet electrical power strip, and a holster on the side of the cabinet to hang the heat gun. The most complete aluminum repair station on the market!

CONSUMABLES - See PG 9

110V POWER
STUD WELDER: 110V
HEAT GUN: 110V
INLINE REMOVER 90PSI

INCLUDED (DF-900DX/E)

DF-900HLD  DF-900CVD  DF-700T  DF-900SSB  DF-AH714
DF-900DC  DF-900BFH  DF-900DFH  DF-900SSBG  DF-AB712

ALUMINUM REPAIR
ALUSPOT ALUMINUM REPAIR STATION - DXE

Side cable opening allows for gun cable to hang away from the drawers

Satisfies the panel repair system requirement for Ford and Tesla body shop repair programs

| 110v | 5 | 280 lbs. |
**Proven Solutions**
Since 2006 AluSpot has been meeting the needs for aluminum panel repair.

**110V POWER**
- STUD WELDER: 110V
- HEAT GUN: 110V
- INLINE REMOVER 90PSI

**DF-900DX**

The DF-900DX Aluspot Deluxe is the most complete aluminum repair station "from the name you know and trust". FOR OFF APPROVED! Here you have everything you need for aluminum repair, within easy reach in a self-contained system. The tools lock away so they do not wander the shop or become contaminated with the steel particles floating around the shop.

**CONSUMABLES - See PG 9**

---

**INCLUDED (DF-900DX)**

<table>
<thead>
<tr>
<th>Tool Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>DF-900W</td>
<td>Magnesium</td>
</tr>
<tr>
<td>250 pc</td>
<td>Silicon</td>
</tr>
<tr>
<td>250 pc</td>
<td>Pull Finger</td>
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<tr>
<td>4 pc</td>
<td>DF-900TP</td>
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<tr>
<td>DF-900SP</td>
<td>DF-930LP</td>
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<tr>
<td>DF-900BP</td>
<td>DF-358</td>
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<tr>
<td>DF-900HG</td>
<td>DF-900PH</td>
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<td>DF-900CPH</td>
<td>DF-900CPRCH</td>
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<td>DF-900DBH</td>
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<tr>
<td>DF-900DEND</td>
<td>DF-900UTD</td>
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<td>DF-900HLD</td>
<td>DF-900CVD</td>
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<td>DF-900CBS</td>
<td>DF-900SSB</td>
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<tr>
<td>DF-900FCH</td>
<td>DF-900FPH</td>
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<td>DF-900BFH</td>
<td>DF-900BFH</td>
</tr>
<tr>
<td>DF-900DC</td>
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</tbody>
</table>

**SATISFIES THE PANEL REPAIR SYSTEM REQUIREMENT FOR FORD AND TESLA BODY SHOP REPAIR PROGRAMS**
ALUSPOT ALUMINUM REPAIR STATION - DX

Side cable opening means drawers not blocked by weld cable.

Satisfies OEM requirement for panel repair.

110v  3  220 lbs.
Discover Aluspot
Experience the quality of a premium aluminum panel repair station without breaking the bank.

Mini but Mighty.
Any shop can invest in the future and start repairing minor to moderately damaged aluminum panels.

POWER
Aluspot Welder

The DF-900B Mini Aluspot Repair System from Dent Fix Equipment is designed to operate as the main unit or as a satellite unit. The Aluspot Mini utilizes some of the same Dent Fix innovations and premier equipment as the larger Aluspot systems but at a fraction of the price. Now any shop can invest in the future and start repairing minor to moderately damaged aluminum panels.

Tool List - See PG 9

DUST COVER INCLUDED!
ALUSPOT ALUMINUM REPAIR
STUD WELDER | PULLERS | SHAPING | CONSUMABLES
STOP REPLACING ALUMINUM PANELS - REPAIR THEM AND PROFIT INSTEAD

SIDE-BY-SIDE COMPARISON

<table>
<thead>
<tr>
<th>INCLUDED</th>
<th>DXE</th>
<th>DX</th>
<th>B</th>
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<tr>
<td>110v Cap. Discharge Stud Welder</td>
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<tr>
<td>Alu-Silicon Studs</td>
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<tr>
<td>Alu-Magnesium Studs</td>
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<tr>
<td>Spitznagel Pull Fingers</td>
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<tr>
<td>T-Puller</td>
<td></td>
<td></td>
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<tr>
<td>Squeeze Puller</td>
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<tr>
<td>Leverage Puller</td>
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<td>Bridge Puller</td>
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<tr>
<td>Stud Cut Pliers</td>
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<tr>
<td>Infrared Temp. Gauge</td>
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</tr>
<tr>
<td>Heat Gun</td>
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<td></td>
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<tr>
<td>3 PC Hammers (Steel)</td>
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<tr>
<td>3 PC Hammers (Alumin.)</td>
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<tr>
<td>2mm Soft Face</td>
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<tr>
<td>35mm Dead Blow Hammer</td>
<td></td>
<td></td>
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<tr>
<td>2 PC Nylon Chisels</td>
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<td>12 PC Nylon Dollies</td>
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<td>3 PC Steel Dollies</td>
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<td>Heat Gun Holster</td>
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<td>Shoe Handle Brush</td>
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<td>Tooth Brush</td>
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<td>Inline Pneumatic Paint Remover</td>
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<td>Fiber Discs</td>
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<td>Power Strip</td>
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<td>5 Year Warranty</td>
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<td>Body File + 350mm Blade</td>
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<td>Safety Glasses</td>
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<tr>
<td>5 Drawers</td>
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<tr>
<td>3 Drawers</td>
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<tr>
<td>Dust Cover</td>
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REPLACEMENTS

<table>
<thead>
<tr>
<th>ALU-MAGNESIUM STUDS</th>
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<tr>
<td>M4x25</td>
<td>500 pc DF-900PM/500</td>
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<table>
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<tr>
<th>PULL FINGERS</th>
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<tbody>
<tr>
<td>1 PIECE DF-900PF</td>
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<th>FIBER DISCS</th>
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<td>6 PIECE DF-710BW</td>
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<tbody>
<tr>
<td>1 PIECE DF-900BFH</td>
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</table>
Drawn Arc-Weld means stronger weld with minimal penetration to the underside of the panel. Argon gas shielding creates a contaminent free weld.

The **DF-900ARC/DXE AluArc Extended** is the next advancement in aluminum repair. Capable of creating extremely strong welds with minimal back panel penetration. With lift arc welding the key is lifted from the panel creating and arc that melts the tip of the key, which then drops to the panel fusing it with panel. The host panel is not used. Because keys can be welded straight into crease, your pulls will be more precise and effective. Keys have great strength for heavy pulls.

**CONSUMABLES** - See PG 13

### 110V POWER

**KEY WELDER: 110V**

**HEAT GUN: 110V**

**INLINE REMOVER: 90PSI**

---

**DF-900ARC/DXE**

---

**INCLUDED (DF-900ARCDX/E)**

<table>
<thead>
<tr>
<th>Flat Keys</th>
<th>Twisted Keys</th>
<th>DF900TP</th>
<th>DF-900SP</th>
<th>DF-900LP</th>
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<td>DF-900ARC</td>
<td>DF-358</td>
<td>DF-900HG</td>
<td>DF-900PFH</td>
<td>DF-900RCH</td>
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<tr>
<td>DF-900BP</td>
<td>Flat Keys</td>
<td>DF-900HG</td>
<td>DF-900PFH</td>
<td>DF-900RCH</td>
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<tr>
<td>DF-900SFH</td>
<td>DF-900BHND</td>
<td>DF-900RHND</td>
<td>DF-900DEND</td>
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<tr>
<td>DF-900BFH</td>
<td>DF-900SSB</td>
<td>DF-900SSB</td>
<td>DF-AB712</td>
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<tr>
<td>DUST COVER</td>
<td>DF-900BFH</td>
<td>DF-900BSBS</td>
<td>DF-AB712</td>
<td></td>
</tr>
</tbody>
</table>

**DELCUXE MODEL:**

Aluminum Hammers, POM Dolly Set, Powerbank, Heat Gun Holster, & MORE DRAWERS
Weld Keys Close
For heavy pulls, multiple keys create an extremely strong pulling tab.

Maximum Bottle:
80 Cubic Feet Bottle
NOT INCLUDED

<table>
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<tr>
<th>VOLTAGE</th>
<th>DRAWERS</th>
<th>CONSUMABLE GAS</th>
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<tbody>
<tr>
<td>110v</td>
<td>5</td>
<td>ARGON (NOT INCLUDED)</td>
</tr>
</tbody>
</table>
Weld Keys Close
For heavy pulls multiple keys create an extremely strong pulling tab.

Small but Mighty
Superior performance packed into a compact package.

110V
POWER
Aluarc Welder
GAS: ARGON (Not Included)

The DF-900ARC/B Mini AluArc Aluminum Repair System is designed to operate as the main unit or as satellite unit and utilizes some of the same Dent Fix innovations and premier equipment as the larger AluArc systems but at a fraction of the cost. Now, any shop can invest in the future and start repairing minor to moderately damaged aluminum panels.
ALUARC ALUMINUM REPAIR
KEY WELDER | PULLERS | SHAPING | CONSUMABLES
STOP REPLACING ALUMINUM PANELS - REPAIR THEM AND PROFIT INSTEAD

SIDE-BY-SIDE COMPARISON
INCLUDED
- Alu-Arc Key Welder
- Alu-Silicon Weld Keys (AlMgSi)
- Alu-Magnesium Weld Keys (AlMg)
- T-Puller
- Squeeze Puller
- Leverage Puller
- Bridge Puller
- Key Cut Piers
- Heat Gun
- 3 PC Hammers (Steel)
- 3 PC Hammers (Alumin.)
- 2mm Soft Face
- 35mm Dead Blow Hammer
- 2 PC Nylon Chisels
- 12 PC Nylon Dollies
- 3 PC Steel Dollies
- Heat Gun Holster
- Shoe Handle Brush
- Tooth Brush
- Inline Pneumatic Paint Remover
- Fiber Discs
- Power Strip
- 5 Year Warranty
- Body File + 350mm Blade
- Weld Protection Glasses
- 5 Drawers
- Dust Cover
- Tank Regulator

ARC

WELD KEYS
FLAT
100 pc
1.0 mm
- AlSpec | Nº1
  - DF-ARC535
- AlMgSi | Nº2
  - DF-ARC498
- AlMg | Nº3
  - DF-ARC450

1.5 mm
- AlSpec | Nº4
  - DF-ARC559
- AlMgSi | Nº5
  - DF-ARC511
- AlMg | Nº6
  - DF-ARC474

TWISTED
50 pc
1.0 mm
- AlSpec | Nº1
  - DF-ARC542
- AlMgSi | Nº2
  - DF-ARC504
- AlMg | Nº3
  - DF-ARC467

1.5 mm
- AlSpec | Nº4
  - DF-ARC566
- AlMgSi | Nº5
  - DF-ARC528
- AlMg | Nº6
  - DF-ARC481

ADD-ONS FOR MINI
ALUMINUM HAMMERS
1 PIECE
DF-AH714
HEAT GUN
1 PIECE
DF-900HG

DENTFIX.COM
ALUMINUM HAMMER SET
DF-AH714

- Solid aluminum head
- Avoid cross contamination
- Lightweight with more forgiving strike
- Less likely to stretch aluminum panel
- Maintenance free

PERFECT FOR ALUMINUM
AVOID GALVANIC CORROSION
GENUINE HICKORY HANDLES

NYLON DOLLIES
DF-AB712

SOLID POM NYLON
NON-CORROSIVE

- Non-Corrosive - Perfect for Aluminum Repair
- Non-Marking - When working with metal
- Molded Case - Tools kept organized & clean
- Maintenance free

CASE INCLUDED

12 PIECE
HAMMER-ON VS HAMMER-OFF TECHNIQUE

When used properly, the two metal working techniques are very effective at repairing aluminum panels. The hammer-off dollying technique is used when first returning the dent to the original shape. Use the first in, last out rule which means to work the dent in reverse, starting outside of the dent and working towards the point of impact. The tools best suited for hammer-off are highly polished steel hammers and rubberized steel core (DF-AB711). Aluminum can easily stretch, so use caution. Hammer-on is used by experienced technicians with lightweight aluminum hammers (DF-AH714) and Nylon dollies (DF-AB712) when smoothing the metal into its final position. Light tapping is used to finish.

RUBBERIZED DOLLIES
DF-AB711

- Rubberized - Better for soft aluminum
- Steel Core - Dense center, good heft
- Case - Dollies are isolated & protected
- Maintenance free
Air Powered
Using regulated air, consistent pneumatic pressure is applied through the installation process.

The DF-SPR67 Self-Piercing Riveter is most versatile and precise riveter available. Pressure application is easily adjusted and can be consistently set with the read out dial. The pressure and speed controls increases accuracy and enable the rivets to be inserted without panel distortion. Choice of C-clamps and dies sets creates versatility for all makes. All metal construction ensures years of use.

CONSUMABLES - See PG 19

8 Tons
PRESSURE

Pneumatic Operation
Install | Punch Hole
Flatten | Remove
Adjustable Pressure

DF-SPR67

INCLUDED (DF-SPR67)

INCLUDED WITH
DF-SPR67 Self-Piercing Riveter Kit

<table>
<thead>
<tr>
<th>SPR</th>
<th>SPR - 3mm</th>
<th>SPR - 5mm</th>
<th>Extracting</th>
<th>Hole Punch</th>
<th>Flow Form</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DF-SPR/AD</td>
<td>DF-SPR/BD</td>
<td>DF-SPR/ED</td>
<td>DF-SPR/TD</td>
<td>DF-SPR/FD</td>
</tr>
<tr>
<td>Flatening</td>
<td>DF-SPR/D17</td>
<td>HR2 Arm</td>
<td>SAMPLE RIVETS</td>
<td>O-Ring</td>
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<tr>
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<td></td>
<td>DF-SPR/OR</td>
<td>DF-SPR/WR</td>
</tr>
</tbody>
</table>

WHAT IS A SELF-PIERCING RIVET?

Self-Piercing Riveting (SPR) is a cold forming technique used to join to panels together with no heat or pre-drilled holes needed to install. The self-piercing rivet pierces the top sheet and forms a mechanical interlock with the bottom sheet without penetrating the back panel.
SELF-PIERCING RIVETER

Kit Includes:
Self-Piercing Riveter
HR2 Arm (DF-SPRHR2)
SPR Matrix Set 3mm (DF-SPR/AD)
SPR Matrix Set 5mm (DF-SPR/BD)
SPR Matrix Extracting Set (DF-SPR/ED)
Hole Punch Matrix Set (DF-SPR/TD)
Flow Form Matrix Set (DF-SPR/FD)
Sample Set of SPR rivets
Arm Locking Pin
Grip Handle & Shoulder Strap
Blow Molded Case

Optional Upgrades:
Low Profile Arm (DF-SPRHR1S)
Large Arm (DF-SPRHR3)
Work Stand (DF-SPR68WS)

CLAMP WEIGHT 8.05 LBS
BODY WEIGHT 7.15 LBS

<table>
<thead>
<tr>
<th>Operation</th>
<th>PSI</th>
<th>Capacity</th>
<th>Warranty</th>
<th>Readout</th>
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<tbody>
<tr>
<td>Pneumatic</td>
<td>90 Min</td>
<td>8 Bar</td>
<td>1 Year</td>
<td>Dial Display</td>
</tr>
<tr>
<td>Heads</td>
<td>115 Max</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPR, Extract, Flow, Punch</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

* USE AIR REGULATOR
SELF-PIERCING RIVETER UPGRADES

SMALL ARM
DF-SPRHR1S

LARGE ARM
DF-SPRHR3

FORD DIE SET
DF-SPR/FORD

- Rivet set for F-Series
- Fits DF-SPR67

Examples of SPR rivet insertion using the FORD die set
BLIND RIVET ADAPTER
DF-SPR/BRAD

- Minimal clearance needed
- Position into tight spaces
- Long flexible neck

Pull Blind Rivets

Storage for blind rivet heads
3.2 | 3.6 | 4.0 | 4.5mm

Fits DF-SPR67 & DF-SPR69

SELF PIERCING RIVETS
ZINC COATED

5.3 x 4.0mm (100 pc) DF-SPR54
5.3 x 5.0mm (100 pc) DF-SPR55
5.3 x 6.0mm (100 pc) DF-SPR56
5.3 x 7.0mm (100 pc) DF-SPR57
5.3 x 8.0mm (100 pc) DF-SPR58
5.3 x 9.0mm (100 pc) DF-SPR59
5.3 x 6.5mm (100 pc) DF-SPR565
5.3 x 7.5mm (100 pc) DF-SPR575

3.3 x 3.5mm (200 pc) DF-SPR33
3.3 x 4.0mm (200 pc) DF-SPR34

CALL FOR NEW BLIND RIVETS
Game Changer
With today's thin sheet metals, The MAXI is the best way to pull without damaging the panel. Light to heavy pulls, The MAXI does it all.

The DF-505/220V MAXI Steel Dent Repair Station is a 220 volt single phase steel dent pulling station that provides the technician with the power they need to shrink, pull rocker panels, hail damage, creases, and dents in hard to access areas and all types of metal damage. Just WELD > PULL > TWIST. The efficiency of this tool increases the workers productivity while producing a cleaner, better repair.

CONSUMABLES - See BELOW

220V POWER
Ultimate Steel Dent Puller Increases efficiency & productivity
WELD • PULL • TWIST

DF-505/220V

INCLUDED WITH MAXI DENT PULLER

Pulling Rods
Slide Hammer Rods
Strike Weight
Leverage Puller
Stud Pin Electrode
Wiggle Wire Tip

5.5”
10”

DF-503SW
DF-505L
DF-503P
DF-503W

9-Finger Claw
4-Finger Claw
Sample Keys & Pins
Wiggle Wire
Grounding Magnet
Shrinking Electrode
Key Tip

DF-506
DF-504
DF-503S
DF-503

OPTIONAL Upgrades & Re-Orders

Work Stand
2.0mm Pins
2.6mm Pins
Flat Keys
Twisted Keys

10” Weld Rods
10” Weld Rods
Thin Wire
Thick Wire
Ding Massager

DF-503L
DF-503
DF-20
DF-26

100 pc
100 pc

DF-503KF
DF-503KT
DF-503DM
MAXI STEEL REPAIR STATION

Kit Includes:
- 220v Maxi Unit
- Leverage Puller
- x2 Pulling Rods
- x2 Slide Hammer Rods
- Strike Weight
- Shrinking Electrode
- Stud Pin Electrode
- Wiggle Wire Welding Tip
- Magnetic Key Tip
- Nine-Finger Bear Claw
- Four-Finger Bear Claw
- x50 Sample Stud Pins
- Sample Weld Keys
- 1/2 lb Thick Wiggle Wire
- 1/2 lb Thin Wiggle Wire
- Grounding Magnet

Optional Upgrades:
- Machine Stand (DF-509)
- Ding Massager (DF-505DM)
- Dust Cover (DF-505DC)

*MAXI PICTURED WITH OPTIONAL STAND (DF-509) PURCHASED SEPARATELY

POWER CABLE
- 18 FEET

PHASE
- SINGLE

WELDING CABLE
- 9 FEET
STEEL BRIDGE PULLER
DF-505BP
- Holds pulls in place
- Locking wheel adjustment
- Simple one person operation

Includes: Standard Leg Set with Pads, Wheel Puller, & 3' Bar

MAXI MASSAGER
DF-505DM

MASSAGE STEEL PULLS

- Adjustable depth
- Fine finish work
- Weld rod slides in easily

Uses DF-503 short weld rod (Not Included)
MAXI DUST COVER
DF-505DC

- Protect your MAXI and keep it clean
- Durable construction should last for years
- MAXI stand not included, but needed for proper fit

MAGNETIC KEY TIP
DF-503KEM

WELD KEYS WITH MAXI

- Maxi (DF-505) add-on
- Weld keys for use with bridge pullers
- Includes key tip & sample keys

DF-503KF
Straight Weld Key
100 pcs

DF-503KT
Twisted Weld Key
100 pcs
Great Value
The Hammer-Head gets you the pulling capabilities you need. Working the same technique as The Maxi, Weld • Pull • Twist. Efficiency and low heat signature make this a must have over conventional stud welders.

Replace your stud welder with our 110 volt DF-595ii Hammer-Head. This efficient unit provides the technician with the means to higher productivity and better results. It’s like having sticky fingers and being able to pull dent with your hand.

The leverage puller allows for controlled pulls. The slide hammer gives you taping and wiggle wire and claw is good for crease pulling. 1 year warranty. Works with a 30 amp breaker.

CONSUMABLES - See BELOW

110V
POWER

Good Steel Dent Puller that increases efficiency & productivity

DF-595ii

Included with DF-595ii Hammer-Head:
- Pulling Rod 7"
- Slide Hammer Rod 11"
- Grounding Magnet DF-GM
- 1/2 lb Wiggle Wire
- Tip Adapter
- Strike Weight
- Shinking Tip
- Leverage Puller DF-595iiLP
- 4-Finger Claw
- Wiggle Wire Tip

SAME GREAT TOOL, DIFFERENT NAME

Optional Upgrades & Reorders:
- Thin Wire
  - 1/2 lb (DF-508)
  - 1 lb (DF-507)
- Thick Wire
  - 1/2 lb (DF-508TK)
  - 1 lb (DF-507TK)
- 11” Weld Rods
  - DF-503iiLR
  - DF-503iiR
- 7” Weld Rods
  - DF-595DM

Fe + C STEEL REPAIR
Kit Includes:
- Wiggle Wire Tip
- Shrink + Adapter Tip
- 1/2 lbs Wiggle Wire
- 4-Finger Claw
- Slide Hammer Rod & Weight
- Short Pull Rod
- Leverage Puller (DF-595iiLP)
- Ground Magnet (DF-GM)

Optional Upgrades:
See Previous Page

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>BREAKER</th>
<th>WELDING CABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>110v</td>
<td>30 amp</td>
<td>6 ft</td>
</tr>
</tbody>
</table>
MULTI-HEAD HAMMER SET
DF-HK111
- Quick changing heads
- 9 Interchangeable heads
- 3-head ring hammer included
- Blow molded case
- Simplify your tool box

9
HEADS

MULTIPLE TOOLS IN ONE

DOOR SKIN PLIERS
DF-DSP310
- Holds the door skin securely in place
- Provides clamping without interrupting flange fold over

2
SPECIALIZED CONTACT PADS

PERFECT FOR RESKINNING

Inner contact bar spreads the force evenly

Outer pad prevents damage to outer panel

Adjustable to clamp onto different panel thicknesses
FLEXIBLE FENDER PULLER
DF-HD0140

- Hinged hooks pivot
- Shapes to the curve of the fender
- Pulls 1.5 ton
- Pull core supports

RING HAMMER
DF-903

- 3 hammer heads in 1 tool
- Easy to use multi-tool
- Fits into tight spaces
- Solid hit from small tool
- Ultimate utility

1.5 TON

HIGH QUALITY

Tool adjusts to the shape of the fender

3 TOOLS IN ONE

MULTI-PURPOSE

www.dentfix.com
Spot Weld Bits for Chuck Drill

**DF-1786VP Variety Bits**
Multi-faceted no slip shank. Variety pack of 5 bits of the hardest coating available! Titanium Carbo-Nitride (HSSE-TiCN) coated drill bits. Includes one 6mm, three 8mm, & one 10mm bit.

**DF-1780T** Bit 8x80mm
Titanium Nitride Drill Bit
Specifically designed for the rigors of spot weld drilling. German made bits can be used with any 3/8" drill. Centering nib prevents bit from walking.

**DF-1780** Bit 8x80mm
High Speed Cobalt Drill Bit
Specifically designed for the rigors of spot weld drilling. German made bits can be used with any 3/8" drill. Centering nib prevents bit from walking.
SPOT ANNIHILATOR
DF-15DX

Optional Upgrades:
- 6" Mega C-Clamp (DF-SPD48M)
- Boron Killer 8mm Bit (DF-1690)
- HSS 6.5mm Bit (DF-1465)
- HSS 10mm Bit (DF-1610)
- Hard Edge 10mm Bit (DF-1610TC)
- Cup & Screw (DF-SPD66A)

Kit Includes:
- Spot Weld Drill (DF-15B)
- HSS 8mm Bit (DF-1480)
- Heat Resist. 8mm Bit (DF-1680T)
- Hard Edge 8mm Bit (DF-1680TC)
- Heat Resist. 10mm Bit (DF-1610T)
- Pneumatic Oil Kit
- Blow Molded Case

WARRANTY
1 YEAR

AIR PRESSURE
90 PSI

ROTATIONAL SPEED
1,000 RPM

- Depth Adjustable
- Smart Pressure Valve
- No Slamming
- Prevent bit breakage
- Boron steel capable
- Pneumatic cutting pressure
SHUNTING PLIERS
DF-SP360

- Required by I-CAR for STRSW E-coated panels
- Shunts the current flow
- Thick copper wire and pads
- Ensure proper welds

Why Use Shunting Pliers?
Squeeze-type resistance spot welding (STRSW) sometimes requires additional measures, in the form of shunting the current flow, to create a successful spot weld.

Conductive coatings on steel, such as zinc or weld-through primer increase the resistance but a successful weld can be accomplished. Non-conductive coatings on steel, such as E-Coat (a corrosion-resistant primer applied to parts by the manufacturer) inhibit the completion of the spot weld.

The E-Coat on the mating surfaces can be saved when using STRSW with the use of the Dent Fix Shunting Pliers (DF-SP360). Simply remove the coating from only the outside surfaces, position the shunting clamp at the spot weld site, and the spot weld is made at the adjacent site. The current chooses the path of least resistance when confronting the non-conductive E-Coat, the shunting pliers facilitates the electrical current from one side to the other. The E-coat at the mating surface burns away. The process is very quick and despite the fact most of the current flows between the electrode tips the current detour was brief but necessary.

**4 GAUGE WIRE**

**SAVES THE E-COAT**
MICRO WELD CLAMPS
DF-MC201
• Generates strong clamping force
• Great low profile
• Secure for pinch and spot welds
• Screw top close to secure
• 4 clamps per pack

SURGE PROTECTOR
DF-601A
• Protects electronics from surges
• For 12 & 24 volt systems
• Lifetime warranty
• Made in the USA
• DO NOT USE ON HYBRIDS

GENERAL USE CLAMPS
4 PIECES

LIFETIME WARRANTY
12 • 24 VOLT SYSTEMS

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>WIDEST WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.25&quot;</td>
<td>1.125&quot;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>NARROW WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5&quot;</td>
<td>0.75&quot;</td>
</tr>
</tbody>
</table>
RIGHT ANGLE
DF-701

• Compact design
• Works best in tight areas
• Remove thick seam sealer
• Undercoating can be removed
• Decal wheel & 3 coarse brushes

OFFSET ERASER
WHEEL INCLUDED!

DF-705 Decal Eraser
Soft
Will not burn the paint.
The perfect tool for cleanup
of moldings.

TOUGHER
DF-705D Offset Eraser
More Durable
Perfect for the removal of
large decals such as those
found on delivery vans.

DF-702C Coarse Brush
The flex allows the brushes
to compress in tight corners
and contour themselves over
lipped edges and curved
corners. Makes fast work of
bed liner.

If you don’t have one you need one.
With the Coarse brush, undercoating
and seam sealer are stripped
away easily and cleanly, right down
to the bare metal. The brushes do
not clog up. Remove rust and scale.
The fine brush is perfect for getting
paint out of tight spaces. The
geared Decal Eraser will strip a
2 foot by 2 foot decal in less than 2
minutes with no paint burn. The
eraser is ideal for removing the
adhesive backing on moldings and
badges. The tool carries a year
warranty and our guarantee of
complete satisfaction.
ELIMINATOR INLINE DECAL & UNDERCOATING REMOVER

DF-700DX

3,500 RPM
Pneumatic Operation

Kit Includes:
- Eliminator Tool (DF-700T)
- Original Decal Eraser (DF-705)
- Offset Decal Eraser (DF-705D)
- Fiber Discs (DF-710BW)
- Single Disc Hub (DF-710BH)
- Double Disc Hub (DF-710DH)
- Coarse Brush (DF-702C)
- Fine 23mm Brush (DF-702SF)
- 1mm Coarse (DF-702C11)
- Fine Brush (DF-702F11)
- 23mm Hub (DF-702H23)
- 11mm Hub (DF-702H)
- Blow Molded Case

<table>
<thead>
<tr>
<th>REQUIRED PRESSURE</th>
<th>AIR CONSUMPTION</th>
<th>FREE SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 PSI (-6 bar)</td>
<td>4 CFM</td>
<td>3,500 RPM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR INLET</th>
<th>REQUIRED HOSE SIZE</th>
<th>TOOL WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” NPT</td>
<td>3/8” ID (9.5mm)</td>
<td>2.6 lbs (1.2 Kg)</td>
</tr>
</tbody>
</table>
**ANGLED FINGER SANDER**
**DF-FBS20**
- Guide keeps grinder in place
- Compact design
- Works best in tight areas
- Body rotates for access

**LONG GRINDER**
**DF-I9315CR**
- Reach into corners to grind
- Extra long handle
- Shield rotates left and right
- Fits into tight work spaces
- 6.3 bar, 90 PSI

**EDGE GUIDE**

**SPEED CONTROL**

**ROTATING BODY**

**PRODUCT DIMENSIONS:**
- Tool Length: 16"
- From the tip of the disc to the top of the handle: 10"
- Width of the disc cover: 4.5"
- Disc width: 4"
- Neck width: 1.25"

**EXTRA LONG REACH**

**CONSUMABLES**
- 4" Abrasive Cut-off Wheel:
  - 1/16" x 3/8" (DF-I9315GDA)
  - 1/8" x 3/8" (DF-I9315GDB)

**AIRPRESSURE**
- 90 PSI

**WARRANTY**
- 1 YEAR
FINGER SANDER
DF-FBS16
• Gets into tight spaces
• Interchange belt
• Sand down a weld
• Grind rough metal spots
• 328x10mm belt

16,000
RPM
MULTIPLE PURPOSE

10,000
RPM
DEPTH ADJUSTABLE

PANEL SAW
DF-PS36
• Set the depth of the cut
• Cut through top panel only
• Double grip handle for firm control
• Guide helps keep the line straight
**SLOT PLIERS**
DF-SP820
- Produces 8x20mm slot punch
- Ideal for MIG brazing
- Throat depth of 30mm
- Comfort grip
- Up to 18 gauge steel
- Online only at DentFix.com

**PUNCH/FLANGE**
DF-516PF
- Punches 8mm holes
- Up to 18 gauge steel
- Swivel head for flanging
- Also available in 6.5mm holes (DF-316PF)

**ALL HOLE PUNCH DES ARE ANGLED FOR SHEARING EFFECT**

**8.0MM PUNCH**
DF-516
- Punches 8.0mm holes
- Up to 18 gauge steel
- Depth adjustable
- Long handle for power

**6.5MM PUNCH**
DF-8
- Punches 6.5mm holes
- Up to 18 gauge steel
- Deep throat
- Allows for more room from edge

**QUALITY TOOL**

**TECHNICIAN FAVORITE**
6 IN 1 PUNCH
DF-MP050K

- Punch & Flange Kit
- Pneumatic operation
- 4.0, 5.5, 6.5, & 8.0mm Punch
- 8.0mm Deep Punch/Flange
- Blow molded case

90 PSI

6 TOOLS IN ONE CASE

FLANGE WIDTH
1 INCH

WARRANTY
1 YEAR
WORKING WITH PLASTIC

4 THINGS TO REMEMBER

The many types of plastic used to construct automotive parts presents special challenges for auto repair facilities when repairing damaged parts. At Dent Fix, we’ve identified four critical areas of concern to keep in mind when performing plastic repairs. These include:

1. Plastic Types
2. Nitrogen Welding
3. Airless Welding
4. Hot Stapler

1. Plastic Types

Most plastic parts will have the type of plastic that the part is made of stamped on it. Dent Fix plastic rod packages will weld most types of plastics found on an automobile. The following is a list of the plastic welding rod offered and the corresponding stamp that may be found on the part, as well as typical parts that may be made from the type of plastic.

**Polypropylene “PP”**

PP, PP/EPDM, PP / T20, TPO, TE0, TSOP. Bumper covers, valance panels, headlights, fuse boxes, air intake parts, engine covers, underbody covers, fluid tanks, rocker moldings, fender flares, trim panels, valance panels case moldings & core supports.

**ABS “ABS”**

ABS, ABS + PC, ABS + PA. Grilles, cowl grilles, dash bezels mirror covers, car door handles, trim panels & finish panels.

**Polyethylene “PE”**

PE, LDPE, HDPE, PPE. Fender liners, splash shields, fluid tanks, & underbody covers.

**Polycarbonate “PC”**

PC, PC + ABS, PC + PBT Bumper covers, finish panels, dash parts, core supports, & Saturn door skins.

**Polyurethane “PUR”**

PU, PUR, PRIM, RIM, TPU, TPUR. Bumper covers, rocker moldings, case moldings. These parts are typically found on older or low production vehicles like the Corvette.

2. Nitrogen Welding

Clean the part on both sides with soap and water, sand the inside with 80 grit sand paper on a dual action sander. When welding on the inside of the panel first, it is usually best to leave the outside painted.

Tape the crack together on one side with aluminum tape to hold it while welding.

It is usually best to cut a V groove along the weld run into the part the same width of the rod that you intend to use.

**Weld Temp Chart (EZ Nitro Welders)**

<table>
<thead>
<tr>
<th>Polyethylene</th>
<th>5</th>
<th>ABS</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>6</td>
<td>Polycarbonate</td>
<td>7</td>
</tr>
<tr>
<td>Polyurethane</td>
<td>Not used</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Direct the heated gas from the nitrogen torch at a 45 degree angle into the corner where the welding rod and part meet. Heating both the rod and part evenly and equally.

Hold the welding rod approximately 3” from the base, push the rod straight down into the part until it begins to flex. Weld into the heat, pushing straight down on the rod while allowing the rod to roll into the heat. Weld speed should be 4” to 6” per minute.

3. Airless Welding

Some plastics such as polyurethane can only be welded with the airless welder using the rod feed tip.

Clean the part on both sides with soap and water, sand the inside with 80 grit sand paper with a dual action sander. It is usually best to leave the paint on the outside when doing the inside weld, if the first weld will be the inside weld.

Tape the crack together on one side with aluminum tape to hold it while welding.

Cut a tight V groove 60% deep into the part.

Set the temperature to the appropriate tempera-
ture for the plastic being welded.

**Weld Temp Chart (EZ Nitro Air Welders)**

<table>
<thead>
<tr>
<th>Material</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane</td>
<td>5</td>
</tr>
<tr>
<td>ABS</td>
<td>5</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>5</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>7</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>6</td>
</tr>
</tbody>
</table>

The temperature should be hot enough to turn the plastic liquid, but not hot enough to cause it to boil.

Press the feeder tip onto the part over the V groove. Push the rod through the feeder tip and into the V groove, filling the V groove completely.

After filling the V groove with plastic rod use the airless torch to smooth the welded rod by pushing the plastic deeper into the V groove.

Turn over the part and remove the aluminum tape. Cut a tight V groove through the crack exposing a complete strip of the back side welded to allow the front and back welds to commingle.

Smooth the weld with the airless torch. Finish by sanding the weld area with 80 grit paper on a dual action sander.

4. **Hot Stapler**

Repair thermoplastic parts instead of replacing with a Hot Stapler Kit. This tool heets up a stainless steel staple to be installed in the plastic parts, adding rigidity and restoring integrity.

**What Staple to Use**

**Z-Clip: Stitch Tears (DF-800ZC)**

Most versatile. Designed for repairing general tears the Z shape forms a natural stitch. Usually used for small and delicate tears with no much obstructions. This staple is placed at 1 to 1.5 inch intervals on straight breaks and open areas. Tighter staple intervals can be used on curved cracks and high load bearing areas.

**N-Clip: High Vibration (DF-800NC)**

Some straight cracks might be located in high vibration areas like plastic supports under the hood. To counteract the vibrations, these clips are used because the larger footprint. The extra width covers more surface area and larger footprint allows it to be used horizontally and vertically.

**M-Clip: Outside Corner (DF-800MC)**

The inside corner of a broken part might not be accessible from the backside. Using the M-Clip on the front of the repair not only allows for the repair to be performed, but also saves time by not having to remove the part from the vehicle. These areas are usually right angles, bends, and joints.

**V-Clip: Inside Corner (DF-800VC)**

A great selection for the inside corners of right angles. The major advantage is to reinforce 90 degree angles from the inside which also can conceal the repair to the back side. Use smaller intervals to create a stronger spine or connect a support tab.

**W-Clip: Grip Corner (DF-800WC)**

The specialized W shape really comes handy when a V-Clip will not work. This shape adds extra support to thicker gauge plastic. The ridges provide more stable surface areas for the staple to reinforce the corner. Typical applications are for thick cornered areas and structurally load-bearing joints.

**S-Clip: Stitch Holes (DF-800SC)**

This staple is a specialty staple that can be used in specific areas like round curves and also in areas where there is little obstruction. When used on open area cracks for best results, after submerging the staple into the plastic a give a clockwise twist, about 1/2", while the staple still hot. This twist helps to further reinforce the repair area.

**U-Clip: Rounded Corner (DF-800UC)**

Another curved application, this staple can help with a rounded corner. This is an alternative to the M-Clip which would leave exposed staple. Also effective in curved areas around screw and plastic rivet holes.

**How to Hot Staple**

Join the adjacent pieces of the repair area together to restore the original form.

Using the Hot Stapler, heat up the staple and press it gently to set. Apply light, controlled pressure. When pressed too hard it can bend or penetrate through the repair area.

When the StapleClips® is half way through the repair surface, you may give a little twist to the S and Z StapleClips® to lock laterally in the plastic, then release the On/Off Switch button on the grip. Wait for a few seconds until the repaired gets firm. Next, draw the StapleClips® out of the prongs.

When repairing damaged areas with considerable length, please repeat the procedure 2-5 at intervals of 1-3 cm.

With a gloved hand simply snap off the Dent Fix Breakaway® StapleClips®.

Grind off excess or file any remaining staple above the service, using a sander or grinder. Smooth ridges or fill any gaps with the plastic rods and finishing iron included in the kit.

Finish as necessary with texture and paint.
No More Tanks
Save Money! Convert shop air into nitrogen to run at a much lower cost than refilling tanks.

The DF-EZN1G EZ Nitro Plastic Welder Generator eliminates the need for refilling nitrogen tanks and has a smaller footprint taking up less space in the shop thanks to its onboard nitrogen generator. The proprietary Flow Adjust Switch Technology (FAST) system makes the DF-EZN1G the easiest nitrogen welder to learn and use.

110V POWER

NITROGEN WELDER: 110V
N2 Generator: 90PSI
HEAT GUN: 110V

DF-EZN1G

INCLUDED WITH DF-EZN1G EZ Nitrogen Plastic Welder Generator

Nitrogen Welder
Storage Cart
Plastic Rod Assortment
Generator
Heat Gun
Aluminum Tape
Heat Gun Holster
Hanc Seamer

DEAFZNI-ATT150
DF-900HGH
DF-EZN1HS
DF-900HG

OPTIONAL EQUIPMENT:

Hot Stapler DF-800BR

POLYETHYLENE
PE, LDE, HDPE, PPE

3mm • Round DF-PEIK03T
3mm • Round DF-PEIK03
9mm • Flat DF-PEIK09
15mm • Flat DF-PEIK15

POLYPROPYLENE
PP, PP/EPDM, PP/T20, TP6, TEO, T50P

3mm • Triangle DF-PPBK03T
3mm • Round DF-PPBK03
6mm • Flat DF-PPBK06
9mm • Flat DF-PPBK09
15mm • Flat DF-PPBK15

POLYCARBONATE
PC, PC+ABS, PC+PBT

3mm • Triangle DF-PCNT03T
3mm • Round DF-PCNT03
6mm • Flat DF-PCNT06
9mm • Flat DF-PCNT06
15mm • Flat DF-PCNT15

PLASTIC REPAIR
EZ NITRO PLASTIC WELDER GENERATOR

High Pressure Nitrogen Outlet can run air tools.

Converts shop air into nitrogen to run the plastic welder

Kit Includes:
EZ Nitrogen Welder Unit
Air Welder
Rolling Storage Stand
N2 Generator
Power Strip on the cart
Hand Seaming Tool - 3.5"
Aluminum "ape Roll - 150ft
Heat Gun Holster
Plastic Sample Pack
  - ABS
  - Polycarbonate
  - Polyethylene
  - Polypropylene
  - Polyurethane

<table>
<thead>
<tr>
<th>NITROGEN PRESSURE</th>
<th>AIR PRESSURE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 PSI</td>
<td>20 PSI</td>
<td>54 lbs.</td>
</tr>
</tbody>
</table>
Ditch the bottle.
Save yourself from refilling nitrogen bottles! Convert shop air into N2 instead of paying for refills.

F.A.S.T. System
Flow Adjust Switch Technology makes the DF-EZN1G/DXE the easiest nitrogen welder to learn and use. It simplifies nitrogen welding and eliminates flow adjustments by the user.

110V
POWER

N2 Welder

The EZ Nitro DXE is the most comprehensive plastic work station available. All the tools needed bundled in one tight package. From grinders to hot staplers, everything is included to help you profit from the repair of expensive plastic parts. Improve shop efficiency by turning light hit vehicles faster. On-board nitrogen generation just makes this a sweeter deal. Everything locks away to protect your investment.

Tool List - See PG 45
COMPARE EZ NITRO REPAIR STATIONS
GAS WELD | AIR WELD | HOT STAPLER | GENERATOR

STOP THROWING AWAY BUMPER COVERS - REPAIR INSTEAD OF REPLACE

EZ BOTTLE FED
DF-EZN1
EZ Nitro Plastic Welder
Airless Plastic Welder
Heat Gun (DF-900HG)
Heat Gun Holster
Aluminum Tape
(DF-EZN1-AT150)
Tank Regulator
Tank Brackets
Plastic Welding Rods:
ABS, Polypropylene,
Polycarbonate, Polyethylene,
& Polyurethane
* Nitrogen Tank not included,
needs to be locally sourced.

EZ NITRO G
DF-EZN1/G
Nitrogen Generator
EZ Nitro Plastic Welder
Airless Plastic Welder
Heat Gun (DF-900HG)
Heat Gun Holster
Aluminum Tape
(DF-EZN1-AT150)
Plastic Welding Rods:
ABS, Polypropylene,
Polycarbonate, Polyethylene,
& Polyurethane

EXTENDED DXE
DF-EZN1G/DXE
Nitrogen Generator
EZ Nitro Plastic Welder
Airless Plastic Welder
Hot Stapler Kit (DF-800BR)
Mini Die Grinders
(DF-DG5227)
Heat Gun (DF-900HG)
Double End Nybn Dolley
(DF-9000END)
Round Head Nylon Chisel
(DF-900RHND)
Aluminum Tape
(DF-EZN1-AT150)
Multi-Clip Pliers (DF-625)
Plastic Clip Pliers (DF-624CP)
Clip Lifter (DF-618CL)
Hand Seamer (DF-EZN1HS)
Ring Hammer (DF-903)
Dust Cover
Utility Wedge Set (DF-609)
Plastic Lever Stripper
(DF-WK20)
Plastic Welding Rods:
ABS, Polypropylene,
Polycarbonate, Polyethylene,
& Polyurethane

UPGRADE TO NO BOTTLE:
DF-EZN1G N2 Generator (Pg 46)

CONSUMABLES - PG 42 & 48

45
EZ NITRO GENERATOR
DF-EZG1

Upgrade any brand of Plastic Welder with the EZ Nitro Generator and “Ditch the Bottle”, Never Run out of Nitrogen AGAIN! Dent Fix’s revolutionary Dual Chamber Separating System transforms your compressed shop air into an endless supply of both regulated & high pressure nitrogen. BONUS: You can also fill your customer’s tires with beneficial nitrogen and/or safeguard the internals of your pneumatic tools by powering them with nitrogen from the EZ Nitro Generator!

MINI DIE GRINDER
DF-DG5227
Compact design fits perfectly into the hand and the cushioned grip allows for long hours and less vibration. The adjustable air speed and whisper quiet operation make this the perfect grinder.

1/2" Round Carbide Burr (DF-C805)
3/8" Tapered Carbide Burr (DF-C803)
1/8" Straight Carbide Burr (DF-C812)

HOT AIR WELDER
DF-EZA1
Simply plug into a 110V socket and begin welding damaged plastic parts back together! Adjustable heat setting for multiple plastic types. Includes plastic welding rod samples, smoothing tip, and feeder tip.

HAND SEAMER
DF-EZN1HS
Wide flat nose is perfect for forming plastic lips, tabs, and flanges when performing plastic repair. Heavy duty solid construction.
Upgrade your Tank Nitrogen Welder
Never run out of Nitrogen

SAVE MONEY & LIMIT DELAYS
Convert shop air into N2 instead of paying for refills

AWARD WINNING INNOVATION
Dual Chamber Generator for On-Demand N2

AVOID SAFETY CONCERNS
Ditch the risks of managing tanks

EZ NITRO Generator
UPGRADE KIT | DF-EZG1
HOT STAPLES / PATCH MESH

- **W-CLIP**
  - DF-800WC/50 (50 pc)
  - DF-800WC/250 (250 pc)
- **Z-CLIP**
  - DF-800ZC/50 (50 pc)
  - DF-800ZC/250 (250 pc)
- **M-CLIP**
  - DF-800MC/50 (50 pc)
  - DF-800MC/250 (250 pc)
- **N-CLIP**
  - DF-800NC/50 (50 pc)
  - DF-800NC/250 (250 pc)
- **S-CLIP**
  - DF-800SC/50 (50 pc)
  - DF-800SC/250 (250 pc)
- **U-CLIP**
  - DF-800UC/50 (50 pc)
  - DF-800UC/250 (250 pc)
- **V-CLIP**
  - DF-800VC/50 (50 pc)
  - DF-800VC/250 (250 pc)
- **Patch Mesh**
  - DF-800PM

HOT STAPLER DELUXE

**DF-800BR**

**THE ORIGINAL HOT STAPLER**

**MADE IN AMERICA**

**110V VOLT**

- Installs staples to repair tears in plastic
- Saves thermoplastic parts from the trash
- Crafted to be compact & lightweight
- No base station

Kit Includes:
- Hot Stapler
- Finishing Iron (DF-800SI)
- x50 U-Clip (DF-800UC/50)
- x50 S-Clip (DF-800SC/50)
- x50 V-Clip (DF-800VC/50)
- x50 M-Clip (DF-800MC/50)
- x50 Z-Clip (DF-800ZC/50)
- x50 W-Clip (DF-800WC/50)
- x50 N-Clip (DF-800NC/50)
- Blow Molded Case

**CASE INCLUDED**

PLASTIC REPAIR

**VOLTAGE**

- 110v

**WEIGHT**

- 5 lbs

**MADE IN**

- USA

**WARRANTY**

- 5 YEARS
LI-ION BATTERY HOT STAPLER
DF-600BR

Three functions in one
- Install hot staples, airless weld plastic, and smoothing iron.
- Hand held unit is small in stature but very capable in tight spaces.
- Foam inserts included with the case.

Kit includes:
Main Unit, Hot Stapler Head, Iron Head, Air Welder Head, Plastic Rod Samples, Staple Samples, Patch Mesh, and case with foam insert.

HOT STAPLER BASIC
DF-400BR

VALUABLE TOOL

- Installs staples to repair tears in plastic.
- Saves thermoplastic parts from the trash.
- 3 heat settings: Light Duty, Regular, HD.
- Handle + base station.

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>110v</td>
<td>6 lbs</td>
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MADE IN: TAIWAN
WARRANTY: 1 YEAR
MULTI-CLIP PLIERS
DF-625

Multiple tools in the palm of your hand
- Remove, pry, or cut tabs
- Disassemble clips
- Also cuts tubing or zip ties

WEDGE SET
DF-609
- Utility wedge set
- Use for door wedges
- Great for molding removal
- Solid plastic construction
- 30 & 60mm wedges
- One clip tool

WEDGE LIFTER
DF-WK20
- Perfect for glass removal
- Also use as a door wedge
- Molding removal made simple
- Great for around air vents

PLASTIC DISASSEMBLY TOOLS

3-PIECE MOLDING REMOVAL

PLASTIC REPAIR
PLastic Disassembly Tools

3PC Clip Set
DF-618XL
- Removes fasteners & clips
- Great for upholstery removal
- Disassemble door panels
- 245x11, 370x11, 250x5mm

5PC Clip Kit
DF-618LK
- For plastic fasteners & clips
- Used for upholstery removal
- Door panel removal
- Angled & curved for leveraging

Foam Storage for Tool Drawers
Perfect to Drop in a Tool Box

Combi Wedge
DF-619
- Wedge plus clip removal tool
- For dash & door panel removal
- Hard to lose, hi-vis yellow
- Constructed of strong plastic
- Pivot point for prying
- Length: 8.5"

Clip Lifter
DF-618CL
- Safely remove clips & fasteners
- Reduce fragile parts breakage
- For upholstery & door panels
- Hi-vis yellow handle
- Sturdy construction
- Length: 6.9"
DELUXE TRIM SCRAPER SET
DF-623TPS

- Safely remove interior & exterior trim pieces
- Velcro enclosed canvas pouch
- Remove air vents, door trim, dashboard pieces, plastic trunk guards, or any delicate pieces
- Ninja Warrior Set

TRIM PANEL SET
DF-621TPS

PROFESSIONAL TOOL SET

- Trim panel popper set
- Two pry bars
- Nine double-sided clip removers
- Double-sided dead blow hammer
- Blow molded hard case
- Detail Set
TRIM PANEL SCRAPER SET
DF-620TPS

SAVE DELICATE PARTS

- Easily save delicate trim pieces
- Includes metal pry bar
- Store in canvas pouch with Velcro enclosures
- Tradesman Set

27 PIECES

12 PIECES
PLASTIC ASSEMBLY TOOLS

SUCTION GUN
DF-SG70
- Safely remove head/tail lights and glass-like surfaces
- Hold windows in place while working on window regulators
- Quick release button

SENSOR HOLE PUNCH
DF-EZ10
- Precise and clean way to create holes
- Cut holes in plastic bumpers up to 5mm in thickness
- Will not damage the paint

Holes Sizes (mm): 17, 18, 18.2, 19, 20, 22.5, 24, 26, 26.7, & 32.

SWIVEL RIVETER
DF-CT888
- Install difficult to access plastic rivets
- 360° rotational head
- Includes 5.0 & 6.3mm rivets

SLIMLINE RIVETER
DF-CT887
- Install difficult plastic rivets
- 2" gap clearance
- Works around wheel arches
- Includes 5.0 & 6.3mm rivets

CASE INCLUDED

CONSUMABLES
PLASTIC RIVETS
5.0mm (50 pc) DF-CT887RS
6.3mm (50 pc) DF-CT887RL

BLOW MOLDED CASE INCLUDED
STATICZAP
DF-EZAP

- Neutralizes the static charge
- Eliminates dust attraction
- Metallic sparkle will stand out
- Easy to use, just hook up to air hose and go
- Lithium ion battery powered

The StaticZap incorporates the efficiency and power of an air amplifier with the proven technology of corona ionization to produce a highly effective anti-static blow-off gun.

Perform the anti-static blow off before starting and at every stage in the painting process to produce a finish that looks like glass. Using this tool cuts down the time needed for wet sanding and buffing, saving labor on post work.

REPLACEMENT PARTS:
- Emitter Pins (5 pc) | DF-ZAP01
- Filter Kit (1 pc) | DF-ZAP02

Kit includes:
- Lightweight Durable Gun
- Rechargeable Lithium Ion Battery
- Two Emitter Pins
- Safety Keys
- Storage Case
ULTRA DING MASSAGER
DF-DM555UDX

- Dings, dents, & hail damage
- Easy to use & learn
- Special nibs for crease repair
- Improved kit with everything
- Works on steel or aluminum
- Use on OEM paint only

Kit Includes:
- x24 Assorted Pulling Nibs (DF-DM15)
- x12 Glue Sticks (DF-DM520GS)
- 120v Glue Gun (DF-DM530GG)
- Knockdown Tool (DF-K0TE)
- Round Knockdown Tip (DF-KORT)
- Pointed Knockdown Tip (DF-KDPT)
- Squeeze Puller (DF-DM540SP)
- Slide Hammer (DF-DM530SH)
- T-Puller (DF-TPG)
- Shaping Tools
- Plastic Scraper Stick (DF-WK30)
- Release Agent (DF-DM520RA)
- Blow Molded Case

Optional Upgrades:
- High Strength Glue (DF-HS10)
- Prof. Strength Glue (DF-PG10)

PDR NIBS (10 pc)

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<th>SHAPE</th>
<th>TEXTURE</th>
<th>SIZE</th>
<th>PART #</th>
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<td>DF-DM15FR</td>
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SHAPE | TEXTURE | SIZE  | PART #     |
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Variety Pack (24 Piece) DF-DM24VP
GLUE PULLER XTREME
DF-GPX

- Fix major dents with no heat input
- Critical for repairing heat sensitive materials
- Save time by avoiding welding/arc procedures
- Repair without damaging undercoating

Kit Includes:
- Ringed Pulling Pads (1-5 Ringed)
- Knockdown Tool with 4 Heads
- Pulling Rig with 3 bars
- Plastic Scraper Stick (DF-WK30)
- Release Agent
- Glue Gun
- Glue Samples
- Blow Molded Case

Optional Upgrades:
- High Strength Glue (DF-HS10)
- Prof. Strength Glue (DF-PG10)
33PC PDR ROD KIT
DF-PDRKIT33

- Professionally crafted PDR rods and hangers
- Essential gathering of expertly designed pieces
- Access the back of the panel with ease
- Duffle bag case

DING ENHANCER SHIELD
DF-DM55DE

From body shop estimating to dealer service check-ins, document the damage by highlighting the dings.

- Sturdy grab handle
- Large 31" diameter
- Collapsible with storage bag
8PC PDR ROD KIT
DF-PDRKIT8
• Great introductory set of PDR tools
• All basic tools needed to start working
• Case zips up for easy transportation

DEAD BLOW HAMMER KIT
DF-DB79K
• Gently knock down high spots
• Remove glue residue with the wedge end
• Include case to store hammer & tips
• Option: Hammer Only # DF-DB69
DIGITAL TRAM GAUGE
DF-3DX

- Easy read digital display
- Measures in metric or American standard
- Measures from 1'4" to 11'11"

AUTOMATIC SELF CALIBRATING
EXTREMELY ACCURATE
LONG MEASURING RANGE

SWISS TRAM
DF-3

HIGHLY ACCURATE

- Accurate to +/- 1.0mm
- Easy to read tape measure
- Measures 3' to 10'6"

Kit Includes:
- 2 - 350mm Pointers
- 2 - Right Angle Pointers (DF-121)
- 1 - Nylon Storage Bag

Optional Equipment:
- Tram Shortene
  (DF-311)
TRAM GAUGES

Digital Display: Easy to read LCD screen vividly shows measurement readouts. Measures in both metric and American standard.

Kit Includes:
- x3 - 350mm Pointers (DF-301)
- x2 - 110mm Pointers (DF-302)
- x2 - Cone Pointers
- x2 - Bullet Pointers
- x2 - Pointer Holders
- x4 - AA Batteries
- x1 - Blow Molded Case

Optional Equipment:
- 700mm Pointers (DF-309)

11’ 11” MAX

MINI TRAM
DF-3S

MINI & HIGHLY ACCURATE

- Accurate to +/- 1.0mm
- Easy to read tape measure
- Measures 16.5” to 3’3”

Kit Includes:
- x2 - 350mm Pointers
- x2 - Cone Pointers (DF-1180)
- x2 - Right Angle Pointers (DF-121)
- x2 - Bullet Pointers (DF-120)
- x1 - Nylon Storage Bag

Our Swiss Trams are the most durable and accurate.
5 METER TRAM
DF-3TC5A

VALUE ADDED TRAM

- Easy read widow display
- Includes nylon storage bag
- Measures 3’6” to 15’4”

Kit Includes:
- x2 - 350mm Pointers
- x1 - Nylon Bag
Optional Equipment:
- 110mm Pointers (DF-302)

SELF CENTERING TIPS
DF-3TCAS

POINTERS ARE SELF CENTERING

- No more second guessing when centering
- Higher accuracy when measuring
- Upgrade for DF-3TC3A & DF-3TC5A

Kit Includes:
- x2 Cone Adapters
- x2 Small Bolt Adapters
- x2 Large Bolt Adapters
- x2 Extension Bars
- Foam Drawer Insert

MORE ACCURATE MEASUREMENTS
3 METER TRAM
DF-3TC3A

GREAT FOR ESTIMATES

- Short version of the DF-3TC5A
- Great for quick measurements
- Measures 2'6" to 9'2"

Kit Includes:
- x2 - 350mm Pointers
- x1 - Nylon Bag

Optional Equipment
- 110mm Pointers (DF-302)

PERFECT GAP GAUGE
DF PC213

- Eliminates the guess work
- Sets the gap width to factory specifications
- 1 to 10mm (1mm per spacer, 10 total)

BODYLINE TOOL
DF BL10A

- Re-create fender curve lines perfectly
- Made in the USA

SET OF 2 INCLUDED
SET EXACT FENDER GAP

Trace block is adjustable up and down
FLEX-O-LIGHT
DF-LED110
• Bright light with multiple mounting options
• Illuminate the out of sight areas
• 1 Year warranty

CLAMP, STICK, or HANG IT
- Stretch it - up to 22.64”
- Clamp it - to edge of work bench
- Stick it - on any ferrous metal surface
- Hang it - anywhere

110 LUMENS
262.5° (80cm)
3.38° (1m)
Beam Distance
Impact Resistance
Light Output
Run Time
8h

Adjustable Clamp

MAGNETIC LED LIGHT
DF-LED935
• Super bright COB (Chip on board) LED
• Hang the lamp by the magnetic swivel base
• Adjustable dimmer switch

USB RECHARGE

935 LUX

MAX 1100 LUM
12
CHARGE TIME
4 HOURS
MAX LUX
935
BATTERY
LI-10N
MAGNETIC CLAMP
DF-PC203
- Strong & fast way to secure parts
- For a controlled spray painting/coating
- Magnetic base & powerful wedge grip

DOOR PROP STICK
DF-DPS1
- Secures a door, hatch, or hood in one position
- Three adjustments settings (11", 13", 15")
- Good for left or right use

SUSPENDS THE OBJECT

ALSO AVAILABLE
FLEXIBLE UNIT
DF-FC205

WORKS GREAT FOR PDR
TORNADOR BLACK
DF-Z020

TURBO CHARGED

- Double the power of the Tornador Classic
- Low wear and maintenance
- Feature & Benefit

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<tr>
<th>AIR PRESSURE</th>
<th>AIR INLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2-6.4 CFM @ 90PSI</td>
<td>1/4&quot;</td>
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<table>
<thead>
<tr>
<th>FREE SPEED RPM</th>
<th>WEIGHT (DRY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,600</td>
<td>1.34 lbs</td>
</tr>
</tbody>
</table>

TORNADOR CLASSIC
DF-Z010

ADD LIQUID CLEANERS

- Pulse cleaning gun with reservoir
- Excellent for soft surface cleaning
- Efficiently delivers additives in a fine mist

ALSO AVAILABLE: WITH BRUSH (DF-Z010B)

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<td>1/4&quot;</td>
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<table>
<thead>
<tr>
<th>JAR CAPACITY</th>
<th>WEIGHT (DRY)</th>
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<tbody>
<tr>
<td>32 oz</td>
<td>1.34 lbs</td>
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</table>
TORNADOR BLOW OUT TOOL
DF-Z014

PULSE CLEANING

- Pulsation of air will beat the dirt out
- Durable alloy construction
- Patented tube provides tornador action

<table>
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<tr>
<th>AIR PRESSURE</th>
<th>AIR INLET</th>
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<table>
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</thead>
<tbody>
<tr>
<td>3,600</td>
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FOAM GUN
DF-Z011

INSTANT FOAM

- Generates suds for gentle application
- Complete coverage with limited waste
- High density foamer tips add control

<table>
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<tr>
<th>LIQUID CONSUMPTION</th>
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<tr>
<td>@70 PSI 1 min: 32 oz</td>
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