



2018

DRIVING AUTO REPAIRS FORWARD

**EMPOWERING
AUTO TECHNICIANS
SINCE 1979**

Dent Fix Equipment and Spitznagel Specialty Tools are built to last. Everyone here at Dent Fix is proud of the company's reputation for the highest quality products and the innovative solutions they provide. Since 1979, Dent Fix Equipment has supplied tools and solutions that help Collision Repair Professionals complete the job at hand more efficiently with a higher quality result. Product satisfaction and customer service have been our highest priorities since day one.

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TABLE OF CONTENTS



ALUMINUM REPAIR
PAGE 04



STEEL REPAIR
PAGE 18



PLASTIC REPAIR
PAGE 36



PAINT LESS DENT REPAIR
PAGE 48



MEASUREMENT
PAGE 52



SHOP TOOLS & DETAIL
PAGE 56



CONSUMABLES PAGE 60

WORKING WITH ALUMINUM

UNDERSTANDING THE “WHY” IS KEY TO LEARNING HOW TO REPAIR ALUMINUM

5 THINGS TO REMEMBER

Repairing aluminum panels presents special challenges for auto repair facilities. At Dent Fix, we've identified five critical areas of concern to keep in mind when performing aluminum panel repairs. These include

1. Galvanic Corrosion
2. Softness of aluminum
3. Work Hardening
4. Heat and Conductivity
5. Oxidation.

1. GALVANIC CORROSION

Galvanic corrosion is an electrochemi-

cal process in which one metal corrodes preferentially to another when both metals are in contact in the presence of an electrolyte like moisture. This is an accelerated corrosion due to the electric charge created in the process.

In the automotive repair center, galvanic corrosion occurs when an aluminum panel is exposed to the shop environment containing steel shavings, dust, and particulates carried over from steel panel and frame repairs. All shops have a degree of humidity in the air, and this moisture is the electrolyte which accelerates the corrosion between the steel dust and the aluminum panel. The technician can also bring dust particles on gloves and clothing which can end up on an aluminum panel. Steel contaminants will be present on tools, and certainly contained in grinding discs or sanding abrasives. These particles can be transferred to and potentially embedded in the aluminum panel.

The result is corrosion on the aluminum panel which negatively impacts the refinish process. This contamination is often invisible but is present nonethe-

less. It can manifest itself through primers, fillers, and paint not adhering to the panel, causing lifting and other paint related issues incurring costly redoes and repairs.

In an ideal situation, all aluminum repairs are conducted in an isolated environment where there are no steel operations present and are performed with a separate and dedicated set of tools and abrasives.

An exposed aluminum panel can be protected with mask paper when not in use to prevent dust from settling on the panel. The minimum OEM requirements are to isolate the work area with a vinyl curtain wall to divide areas where aluminum and steel may cross contaminate. In addition, it necessary to obtain a specified set of specialty tools and maintain an isolated common tool set. Keep in mind that aluminum dust can also migrate back to steel panels to corrode in the same manner, causing similar corrosion and finish issues.

The Aluspot Dent Repair System provides a solution with a specifically designed set of tools for aluminum

repair, contained in an isolated storage tool box, intended to prevent contamination and thus insure the integrity of the repair process.

2. SOFTNESS

Consideration must be given when working with aluminum due to the softness of the material itself. Aluminum is too soft to be used on it's own, so it is alloyed with magnesium or silicon for added strength in body panels. Structural and cast pieces are alloyed with zinc. The 7000 series alloy contains zinc, the 6000 series contains silicon, and the 5000 series alloy contains magnesium. The Aluspot system features magnesium and silicon studs for use on panels corresponding to the alloyed material to ensure a proper weld and bond to the panel.

The softness of aluminum dictates that no sandpaper coarser than 80 grit be used to avoid gouging. The Aluspot system is equipped with a special low tooth per inch body file to prevent caking. Keeping hammers and dollies free of nicks and sharp edges is also critical, as these can damage soft aluminum panels and effect finish time.

Always use a hammer-off technique when working aluminum panels to prevent pinching and over-stretching of the material.

3. WORK HARDENING

Aluminum is work-hardened, meaning it becomes harder with each forming process applied to it. It is first hardened when the panel is originally stamped, but the process occurs again when the panel is damaged. Reshaping the panel will cause the panel to over harden and then crack and break. Aluminum has a work hardened memory that makes it want to stay in its current state. Steel on the other hand has return memory. Steel wants to spring back, while aluminum will fight to stay in its current shape. Heat must be applied to erase this memory and then the work of panel repair can take place to reset the memory into a new shape.

4. HEAT & CONDUCTIVITY

Traditional transformer based steel stud welders, do not create enough heat fast enough to weld on aluminum due to its high heat flow characteristics. The Aluspot system includes a Capacitor Discharge stud welder, which is

designed to release far more electrical energy much quicker than a steel stud welder.

Attempting to pull the panel back into shape without applying heat will over-harden the panel and it will crack and break. Technically, aluminum will be workable in the 400-570°F range. We do see movement in temperatures below 400°F and over 570°F will anneal or permanently soften the aluminum.

Manufacturers have specific temperature ranges that they recommend. For example, Ford advises heating panels to no more than 400°F to protect any bonding agents, glues, or sound deadener on the back side of the panels from debonding or failure. Aluminum will melt at 1200°F with no color change indication. It is critical to maintain temperature control. The Dent Fix Aluspot system includes a heat gun featuring controllable temperature output. Keeping in mind that aluminum has excellent heat conductivity, it will rapidly flow the heat away from the target work area you are heating. This requires applying heat at a higher tem-

perature than the desired range because of the rapid cooling properties of aluminum. For this reason, the system includes an emissivity-specific infra-red thermometer, which works on reflective surfaces, to accurately monitor the temperature of the work area and keep the temperature of the work in the desired range.

HINTS: The stud should be welded at a perpendicular or vertical position to the panel to ensure a complete fusion of the pin to the aluminum. The aluminum stud welder is designed to inject a high-heat rapidly to allow the aluminum stud to fuse with the molten aluminum puddle before the puddle dissipates the heat. Voltage adjustment allows for variations in the thickness of the aluminum sheet and needed pull strength.

5. OXIDE

Oxide is basically how aluminum rusts. It forms a protective coating on the aluminum that can be seen when the aluminum changes from the shiny surface to the slightly dull silver color. Again, aluminum melts at 1200°F and does not change color as it melts. The oxide, however, melts at 3600°F. The

Capacitive Discharge welder is powerful enough to power through the oxide. The problem is the oxide layer contaminates the stud weld and causes a larger spark. This greater spark removes critical molten aluminum that the pin will need to fuse with. The problem is easily solved with simple but essential stainless steel brushes - a shoe handle brush for general cleaning and a toothbrush for more intensive cleaning of the oxide. The technique to remove oxide before stud welding is to brush the area vigorously in a back-and-forth motion, and in the same direction for the final strokes to keep the oxide out of the weld area.

HINTS: The 3 keys to a proper stud weld are:

- Perpendicular Stud Pin
- Contaminant Free Weld
- Start Weld at Level 3 or 85 volt

ALUSPOT EXT DF-900DX/E

- Upgraded - Everything in 900DX plus: power bank, heat gun holster, & 5 drawers
- Nylon Dollies + Solid Aluminum Hammers
- Isolation - Prevent contamination
- Nested Tools - Organized & accountable
- Innovative - Industry exclusives
- Trusted - Repairing aluminum since '06

**5 YEAR WARRANTY
MADE IN USA
ORIGINAL**

110v

**High Capacitor
Discharge Welder**

INCLUDED

| | | | | | | |
|---|---|---|---|---|--|---|
|  |  |  |  |  |  |  |
| DF-900W | DF-900PM | DF-900PS | DF-900PF | DF-900TP | DF-900SP | DF-900LP |
|  |  |  |  |  |  |  |
| DF-900BP | DF-358 | DF-900IT | DF-900HG | DF-900PFH | DF-900CPH | DF-900RCH |
|  |  |  |  |  |  |  |
| DF-900SFH | DF-900DBH | DF-900BHND | DF-900RHND | DF-900DEND | DF-900UTD | DF-900TTD |
|  |  |  |  |  | EVERYTHING IN THE DF-900DX PLUS: ALUMINUM HAMMERS, POM DOLLY SET, POWER BANK HEAT GUN HOLSTER, & MORE DRAWERS | |
| DF-900HLD | DF-900CVD | DF-700T | DF-900SSB | DF-AH714 | | |
|  |  |  |  |  |  | |
| DF-900DC | DF-900BFH | DF-900BFH | DF-900SSBS | DF-AB712 | | |

**SATISFIES THE
PANEL REPAIR
SYSTEM
REQUIREMENT
FOR FORD AND
TESLA BODY
SHOP REPAIR
PROGRAMS**

**VOLTAGE**

110v

DRAWERS

5

WEIGHT

280 lbs.

ALUSPOT DELUXE DF-900DX

- Complete - Everything needed
- Isolation - Prevent contamination
- Nested Tools - Organized & accountable
- Innovative - Industry exclusives
- Trusted - Repairing aluminum since '06
- 3 Drawers

**5 YEAR WARRANTY
MADE IN USA
ORIGINAL**

110v

**High Capacitor
Discharge Welder**

INCLUDED

| | | | | | | |
|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |
| DF-900W | DF-900PM | DF-900PS | DF-900PF | DF-900TP | DF-900SP | DF-900LP |
|  |  |  |  |  |  |  |
| DF-900BP | DF-358 | DF-900IT | DF-900HG | DF-900PFH | DF-900CPH | DF-900RCH |
|  |  |  |  |  |  |  |
| DF-900SFH | DF-900DBH | DF-900BHND | DF-900RHND | DF-900DEND | DF-900UTD | DF-900TTD |
|  |  |  |  |  |  | |
| DF-900HLD | DF-900CVD | DF-700T | DF-900SSB | DF-900SSBS | | |
|  |  |  | SATISFIES THE PANEL REPAIR SYSTEM REQUIRE- MENT FOR FORD AND TESLA BODY SHOP REPAIR PROGRAMS | | | |
| DF-900BFH | DF-900BFH | DF-900DC | | | | |



| VOLTAGE | DRAWERS | WEIGHT |
|---------|---------|----------|
| 110v | 3 | 220 lbs. |

ALUMINUM HAMMER SET DF-AH714

- Solid Aluminum Head - Avoid cross contamination
- Lightweight - More forgiving strike
- Safer - Less likely to stretch aluminum panel
- Maintenance free
- Molded tool case



Pick & Finishing
(40mm Round)
DF-AH714A

Curved Pein
& Finishing
(40mm Round)
DF-AH714B

**PERFECT FOR ALUMINUM
AVOID GALVANIC CORROSION
GENUINE HICKORY HANDLES**

NYLON DOLLIES DF-AB712



Profile Arranging Block
DF-AB712A



Heel Dolly
DF-AB712F



Crease Alignment Tool
DF-AB712B



RxR Dolly
DF-AB712H



Bolster Head Chisel
DF-AB712C



Block Dolly
DF-AB712I



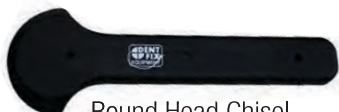
Wedge Dolly
DF-AB712L



Toe Dolly
DF-AB712G



Double End Dolly
DF-AB712J



Round Head Chisel
DF-AB712D



Hand Flat + Curved: DF-AB712K



Curved Dolly: DF-AB712E

**SOLID POM NYLON
NON-CORROSIVE**



12

PIECE KIT

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



Standard Bumping
(40.5mm Round,
38mm Square)
DF-AH714C

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). 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. Aluminum can easily stretch too thin beyond repair so use extreme caution.



RUBBERIZED
DOLLIES
DF-AB711



RUBBER SHELL
STEEL CORE



7

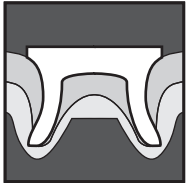
PIECE KIT

- Rubberized - Absorbs harsh impacts
- Steel Core - Dense center, good heft
- Case - Dollies are isolated & protected

| ALUMINUM CAPABLE | COATING |
|------------------|----------|
| YES | RUBBER |
| CORE | WARRANTY |
| STEEL | 90 DAYS |

SELF PIERCING RIVETER

DF-SPR67



- Pneumatic - Constant Pressure
- Pressure Dial & Speed Controls
- Universal car body riveting system
- SPR, Extracting, Flow Form, Hole Punch
- OEM Repair Method

Pneumatic Operation
Install & Remove
Adjustable Pressure

8 Tons
Pressure

| | | | | | |
|--|--|---|--|--|---|
| INCLUDED WITH DF-SPR67 Self-Piercing Riveter Kit  | SPR - 3mm  DF-SPR/AD | SPR - 5mm  DF-SPR/BD | Extracting  DF-SPR/ED | Hole Punch  DF-SPR/TD | Flow Form  DF-SPR/FD |
| | Flattening  DF-SPR/D17 | HR2 Arm  DF-SPRHR2 | SAMPLE RIVETS  | O-Ring  DF-SPROR | Wrench  DF-SPR/WR |
| OPTIONAL RIVETS 3.3x3.5mm (x200) DF-SPR33 3.3x4mm (x200) DF-SPR34 5.3x4mm (x100) DF-SPR33 5.3x5mm (x100) DF-SPR55 5.3x6mm (x100) DF-SPR56 5.3x7mm (x100) DF-SPR57 5.3x8mm (x100) DF-SPR58 5.3x9mm (x100) DF-SPR59 | Large Arm  9.45" Depth 22.5 lbs DF-SPRHR3 Small Arm  1.6" Depth 4.15 lbs DF-SPRHR1S | OPTIONAL UPGRADES FORD: DF-SPR/FORD OTHER OEM DIE SETS AVAILABLE Work Stand  DF-SPR68WS | SPR - FORD  DF-SPR/B1 SPR - FORD  DF-SPR/G3 SPR - FORD  DF-SPR/G6 | SPR - FORD  DF-SPR/G1 SPR - FORD  DF-SPR/G4 Extractor FORD  DF-SPR/E7 | SPR - FORD  DF-SPR/G2 SPR - FORD  DF-SPR/G5 Extractor FORD  DF-SPR/E12 |



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

Inside the Case

| Operation | PSI* | Capacity |
|---------------------------|------------------|--------------|
| Pneumatic | 90 Min 115 Max | 8 Bar |
| Heads | Warranty | Readout |
| SPR, Extract, Flow, Punch | 1 Year | Dial Display |

* USE AIR REGULATOR







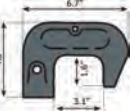
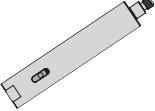
























SPR PUSH/PULL DF-SPR69

- Unique Push/Pull System
- Pneumatic - Can start pressure
- Pressure Dial & Speed Controls
- SPR, Extracting, Flow Form, Hole Punch
- Universal car body riveting system
- OEM Repair Method

**PNEUMATICALLY
PUSHES AND
PULLS THE PISTON**

90

PSI

| | | | | | | | |
|--|---|---|--|---|---|--|---|
| INCLUDED WITH PUSH/PULL SPR Kit | SPR - 3mm  DF-SPR/AD | SPR - 5mm  DF-SPR/BD | Extracting  DF-SPR/ED | Flattening  DF-SPR/D17 | Flow Form  DF-SPR/ED | Punching  DF-SPR/T5 | |
| SAMPLE RIVETS | Small Arm  DF-SPR/HR1S | Extension  DF-SPR/EX69 | Center Punch  DF-SPR/CP | Wrench  DF-SPR/WR | O-Ring  x4 DF-SPROR |  DF-SPR/T7 | |
| OPTIONAL RIVETS | | Large Arm | OPTIONAL UPGRADES OTHER OEM DIE SETS AVAILABLE | | SPR - FORD | SPR - FORD | SPR - FORD |
| 3.3x3.5mm (x200) DF-SPR33  3.3x4mm (x200) DF-SPR34  5.3x4mm (x100) DF-SPR33  5.3x5mm (x100) DF-SPR55  5.3x6mm (x100) DF-SPR56  5.3x7mm (x100) DF-SPR57  5.3x8mm (x100) DF-SPR58  5.3x9mm (x100) DF-SPR59  | |  9.45" Depth 22.5 lbs DF-SPRHR3 | | | DF-SPR/B1  | DF-SPR/G1  | DF-SPR/G2  |
| | | HR2 Arm |  DF-SPR/FORD | | SPR - FORD  | SPR - FORD  | SPR - FORD  |
| | |  5.11" Depth 8.05 lbs DF-SPRHR2 | | | SPR - FORD  | Extractor FORD  | Extractor FORD  |
| | | | | | DF-SPR/G6 | DF-SPR/E7 | DF-SPR/E12 |



Matrix Case

Kit Includes:

- Self-Piercing Riveter
- HR1 Arm (DF-SPHR1)
- SPR Matrix Set 3mm (DF-SPR/AD)
- SPR Matrix Set 5mm (DF-SPR/BD)
- SPR Matrix Extracting Set (DF-SPR/ED)
- Punching Matrix Set (DF-SPR/T5,T7,ST1)
- 6.5mm Hole Punch Matrix Set (DF-SPR/TD)
- Flow Form Matrix Set (DF-SPR/FD)
- Flattening Matrix Set (DF-SPR/D17)
- Sample Set of SPR rivets
- Arm Locking Pin
- Grip Handle & Shoulder Strap
- Blow Molded Case

Optional Upgrades:

- Low Profile Arm (DF-SPHR1S)
- Medium Arm (DF-SPHR2)
- Large Arm (DF-SPHR3)

CLAMP WEIGHT 4.05 LBS
BODY WEIGHT 8.09 LBS

| PSI | BAR CAPACITY | TOOL WEIGHT |
|-----|--------------|-------------|
| 90 | 8 | 13 lbs. |

MAXI STEEL DENT STATION DF-505/220V

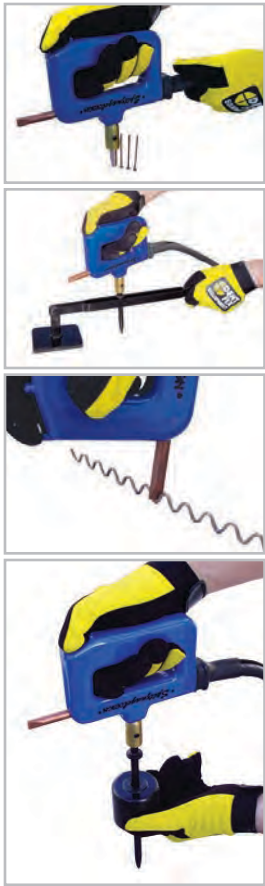
- Now able to weld key tabs
- Ultimate multiple steel dent pulling tool
- Just WELD > PULL > TWIST
- Welds pins, pulling rods, and wiggle wire
- Produces a cleaner & better panel repair
- Increase efficiency & productivity
- No burn through

MADE IN AMERICA
5 YEAR WARRANTY
THE ORIGINAL

220

VOLT

| | | | | | | | |
|---|--|--|---|---|--|---|---|
| INCLUDED WITH MAXI DENT PULLER | Pulling Rods  5.5" | Slide Hammer Rods  10" | Strike Weights  DF-503SW | Leverage Puller  DF-505L | Stud Pin Electrode  DF-503P | Wiggle Wire Tip  DF-503W | |
| | 9-Finger Claw  DF-506 | 4-Finger Claw  DF-504 | Sample Pins  | 1lb Wiggle Wire  DF-503SW | Grounding Magnet  DF-GM | Shrinking Electrode  DF-503S | Key Tip NEW  DF-505KEB |
| OPTIONAL UPGRADES & REORDERS | WORK STAND  DF-509 | | | 2.0mm Pins  DF-20 | 2.2mm Pins  DF-22FV | 2.6mm Pins  DF-26 | 2.6mm Pins  DF-26FV |
| | 10" Weld Rods  DF-503L | | | | Thin Wire  1/2 lb (DF-508) 1 lb (DF-507) | Thick Wire  1/2 lb (DF-508TK) 1 lb (DF-507TK) | Ding Massager  DF-505DM |
| | 5.5" Weld Rods  DF-503 | | | | | | |
| | | | | | | | |



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
- Eyelet Electrode
- NEW** Key Tip
- Nine-Finger Bear Claw
- Four-Finger Bear Claw
- x50 Sample Stud Pins
- 1lb of Wiggle Wire
- Grounding Magnet

Optional Upgrades:

- Machine Stand (DF-509)
- Ding Massager (DF-505DM)

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


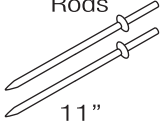









| POWER CABLE | PHASE | WELDING CABLE |
|-------------|--------|---------------|
| 18 FEET | SINGLE | 9 FEET |

**HAMMERHEAD
STEEL DENT
STATION
DF-595ii**










- Replace your stud welder
- Higher productivity with better results
- Same great quality, same essential tools
- It's like being able to pull a dent with your hand
- Decreases repair time
- Use with 30 amp breaker

**MUST HAVE TOOL
SIMPLE TO USE
1 YEAR WARRANTY**

110
VOLT

| | | | | | | |
|---|--|--|---|---|---|--|
| INCLUDED WITH DF-595ii HAMMER-HEAD | <div>Pulling Rods</div> <div></div> <div>7"</div> | <div>Slide Hammer Rods</div> <div></div> <div>11"</div> | <div>Strike Weight</div> <div></div> | <div>Leverage Puller</div> <div></div> <div>DF-595iiLP</div> | <div>3-Finger Claw</div> <div></div> | |
| <div>Grounding Magnet</div> <div></div> <div>DF-GM</div> | <div>Sample Pins</div> <div></div> | <div>1lb Wiggle Wire</div> <div></div> | <div>Tip Adapter</div> <div></div> | <div>Shrinking Tip</div> <div></div> | <div>Wiggle Wire Tip</div> <div></div> | |

SAME GREAT TOOL, DIFFERENT NAME

| | | | | | | |
|------------------------------|---|---|---|---|---|---|
| OPTIONAL UPGRADES & REORDERS | Thin Wire | Thick Wire | 2.0mm Pins | 2.2mm Pins | 2.6mm Pins | 2.6mm Pins |
| |  |  |  |  |  |  |
| | 1/2 lb (DF-508) | 1/2 lb (DF-508TK) | DF-20 | DF-22FV | DF-26 | DF-26FV |
| | 1 lb (DF-507) | 1 lb (DF-507TK) | <div>11" Weld Rods</div> <div></div> <div>DF-503iiLR</div> | <div>7" Weld Rods</div> <div></div> <div>DF-503iiR</div> | <div>Ding Massager</div> <div></div> <div>DF-505DM</div> | |



Kit Includes:

- Pin/washer Tip
- Wiggle Wire Tip
- Shrink Tip
- 1 lbs Wiggle Wire
- 3-Finger Claw
- Slide Hammer Rod & Weight
- Short Pull Rod
- Leverage Puller (DF-595iiLP)
- Ground Magnet (DF-GM)

Optional Upgrades:

See Previous Page

| VOLTAGE | BREAKER | WELDING CABLE |
|---------|---------|---------------|
| 110v | 30 amp | 6 ft |

STEEL BRIDGE PULLER DF-505BP

- Standard bridge with optional interchangeable parts
- Includes: Standard Leg Set with Pads, Wheel Puller, & 3' Bar

Optional Parts (Purchased Separately):

| | |
|-------------|---------------------------|
| DF-505BP/04 | Optional 4' Longer Bar |
| DF-505BP/05 | Optional 5' Longer Bar |
| DF-505BP/07 | Single Pad Adjustable Leg |
| DF-505BP/08 | Double Pad Adjustable Leg |
| DF-505BP/09 | Wiggle Wire 9-Claw Puller |



**CUSTOMIZABLE & ADJUSTABLE
CAN HOLD PULL IN PLACE
SIMPLE ONE MAN OPERATION**

MAXI MASSAGER DF-505DM

MASSAGE STEEL PULLS

1

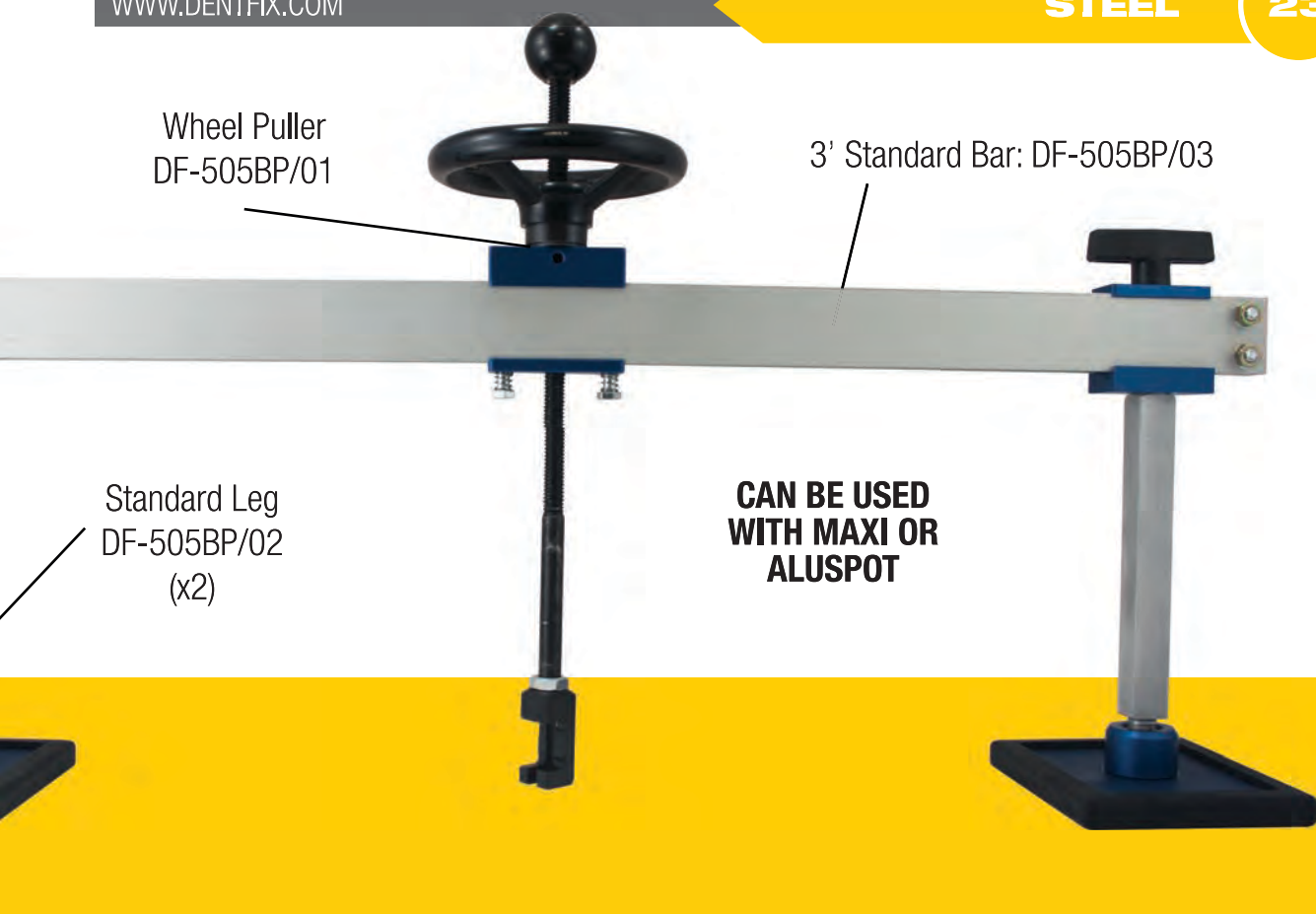
PIECE



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

Uses DF-503
short weld rod
(Not Included)





MAGNETIC KEY TIP DF-503KEM



WELD KEYS WITH MAXI

1

PIECE

- 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

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**

FENDER PULLER DF-HD0140

- Hinged hooks pivot
- Shapes to the curve of the fender
- Pulls 1.5 ton
- Pulls core supports
- Reshapes damaged fenders

1.5**TON****HIGH
QUALITY**

RING HAMMER DF-903

- 3 hammer heads in 1 tool
- Easy to use multi-tool
- Fits into the first knuckle
- Solid hit from small tool
- Hi-vis red color

3**TOOLS IN ONE****MULTI-
PURPOSE**

Spot Weld Bits for Normal Drill

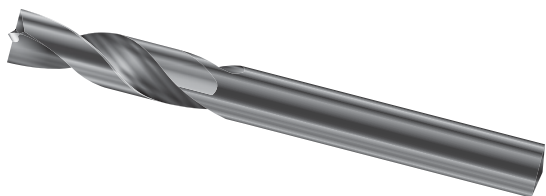


DF-1786VP Variety Bits
Hardest Coating Available
Titanium Carbo-Nitride (HSSE-TiCN)
coated drill bit variety pack. Includes
one 6mm, three 8mm, and one
10mm. Quantity of 5 bits total.



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-inch 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-inch drill.
Centering nib prevents bit from walking.

BORON



▲ **DF-1690**

8mmx45mm

Layered Tungsten-Carbide

HARD
EDGE

▲ **DF-1680TC**

8mmx45mm

Titanium Carbon Nitride

HARD
EDGE

▲ **DF-1610TC**

10mmx45mm

Titanium Carbon Nitride

HEAT
RESIST.

▲ **DF-1680T**

8mmx45mm

Titanium Nitride

HEAT
RESIST.

▲ **DF-1610T**

10mmx45mm

Titanium Nitride

HSS



▲ **DF-1465**

6.5mmx45mm

High Speed Cobalt

HSS



▲ **DF-1480**

8mmx45mm

High Speed Cobalt

HSS



▲ **DF-1610**

10mmx45mm

High Speed Cobalt

SPOT ANNIHILATOR DF-15DX

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



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

SHUNTING PLIERS DF-SP360

- Required by I-CAR for STRSW E-coated panels
- Shunts the current flow
- Thick copper wire and pads
- Save valuable E-coating

4

GAUGE WIRE

SAVES THE E-COAT



MAX AMPERAGE

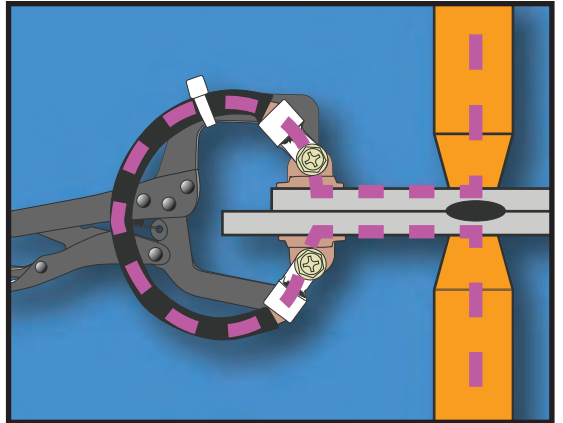
145 AMPS

COPPER WIRE

4 GAUGE

WARRANTY

90 DAYS



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.

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

4**PIECES****GENERAL
USE CLAMPS**

HEIGHT

2.25"

WIDEST WIDTH

1.125"

DEPTH

0.5"

NARROW WIDTH

0.75"

SURGE PROTECTOR DF-601A

- Protects electronics from surges
- For 12 & 24 volt systems
- Lifetime warranty
- Made in the USA
- DO NOT USE ON HYBRIDS

12 • 24**VOLT SYSTEMS****LIFETIME
WARRANTY**

ELIMINATOR DF-700DX

- Removes undercoating
- Wide decal remover
- Fiber Discs attachments
- Decal eraser will not burn paint
- Strip rust off with fine brush
- Belt driven and pneumatic

**REMOVES RUST
REMOVE DECALS
DIFFERENT WHEELS**

3,500

RPM



ORIGINAL
DF-705 Decal Eraser
Softer

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 Course 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.





Kit Includes:

- Eliminator Tool (DF-700T)
- Original Decal Eraser (DF-705)
- Offset Decal Eraser (DF-705D)
- Fiber Discs (DF-710BW)
- Single Disc Hub (DF-710BHS)
- Double Disc Hub (DF-710DHS)
- Coarse Brush (DF-702C)
- Fine 23mm Brush (DF-702SF)
- 11mm Coarse (DF-702C11)
- Fine Brush (DF-702F11)
- Blow Molded Case

| REQUIRED PRESSURE | AIR CONSUMPTION | FREE SPEED |
|-------------------|--------------------|-----------------|
| 90 PSI (-6 bar) | 4 CFM | 3,500 RPM |
| AIR INLET | REQUIRED HOSE SIZE | TOOL WEIGHT |
| 1/4" NPT | 3/8" ID (9.5mm) | 2.6 lbs (1.2Kg) |

RIGHT ANGLE DF-701

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

90

PSI

**90° RIGHT
ANGLE**

LONG GRINDER DF-I9315CR

- Reach into corners to grind
- Angled face
- Extra long handle
- Shield rotates left and right
- Fits into tight work spaces
- 6.3 bar, 90 PSI

15,000

RPM

**EXTRA LONG
REACH**

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"

CONSUMABLES

4" GRINDING DISCS:
1/16"x3/8" (DF-I9315GDA)
1/8"x3/8" (DF-I9315GDB)

AIR PRESSURE

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



RPM

16,000

AIR PRESSURE

90PSI

WARRANTY

1 YEAR

6 IN 1 PUNCH
DF-MPO50K

- 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

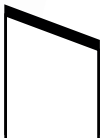
SLOT PLIERS DF-SP820

- Produces 8x20mm slot punch
- Ideal for MIG brazing
- Throat depth of 30mm
- Comfort grip
- Up to 18 gauge steel
- Online only @ DentFix.com

8x20**MM SLOT****ICAR MIG
BRAZING**
8x20mmJaguar
Program

PUNCH/FLANGE DF-516PF

- Punches 8mm holes
- Up to 18 gauge steel
- Swivel head for flanging
- Also available in 4.5mm holes (DF-316PF)

8mm**HOLES****PUNCH &
FLANGE**
8mm
All hole
punch dies
are angled for
shearing effect

8.0MM PUNCH DF-516

- Punches 8.0mm holes
- Up to 18 gauge steel
- Depth adjustable
- Comfort grips

8mm**HOLES****QUALITY
TOOL**

●
8mm



6.5MM PUNCH DF-8

- Punches 6.5mm holes
- Up to 18 gauge steel
- Deep throat
- Allows for more room from edge

6.5mm**HOLES****TECHNICIAN
FAVORITE**

●
6.5mm












EZ NITROGEN PLASTIC WELDER DF-EZN1

- Plastic Inert Gas (P.I.G.) Welder
- Flow Adjust Switch Technology (F.A.S.T.)
- Automatic flow with no need to adjust
- Dent Fix takes plastic welding to 11
- Works with most plastics
- Nitrogen tank sold separately

MADE IN THE USA
AUTOMATIC FLOW
SIMPLE OPERATION

110

VOLT

| | | | | | | |
|---|--|---|---|---------------------------|---|--|
| INCLUDED WITH DF-EZN1 EZ Nitrogen Plastic Welder | Nitrogen Welder  | Storage Cart  | Tank Regulator  | OPTIONAL EQUIPMENT | Heat Gun  | Hot Stapler  |
| | Aluminum Tape  | Heat Gun Holster  | Hand Seamer  | | Plastic Rod Assortment  | |
| DF-EZN1-AT150 | DF-900HGH | DF-EZN1HS | DF-EZN1TR | | DF-900HG | DF-800BR |

CONSUM- ABLE PLASTIC RODS

PART #
+
QUANTITY
=
Plastic Rod
Re-Order
Part Number

| TYPE | SIZE | PART # | QUANTITY |
|---------------------------|------|-----------------|-----------|
| ABS Plastic Rod | 3mm | DF-EZN1-ABBK03/ | 100 or 50 |
| ABS Plastic Rod | 9mm | DF-EZN1-ABBK09/ | 100 or 50 |
| Nylon Plastic Rod | 3mm | DF-EZN1-NYNT03/ | 100 or 50 |
| Nylon Plastic Rod | 9mm | DF-EZN1-NYNT09/ | 100 or 50 |
| Polycarbonate Plastic Rod | 3mm | DF-EZN1-PCNT03/ | 100 or 50 |
| Polycarbonate Plastic Rod | 9mm | DF-EZN1-PCNT09/ | 100 or 50 |
| Polyethylene Plastic Rod | 3mm | DF-EZN1-PEBK03/ | 100 or 50 |
| Polyethylene Plastic Rod | 9mm | DF-EZN1-PEBK09/ | 100 or 50 |
| Polypropylene Plastic Rod | 3mm | DF-EZN1-PPBK03/ | 100 or 50 |
| Polypropylene Plastic Rod | 6mm | DF-EZN1-PPBK06/ | 100 or 50 |
| Polypropylene Plastic Rod | 9mm | DF-EZN1-PPBK09/ | 100 or 50 |
| Polypropylene Plastic Rod | 10mm | DF-EZN1-PPBK10/ | 100 or 50 |
| Polypropylene Plastic Rod | 13mm | DF-EZN1-PPBK13/ | 100 or 50 |
| Polypropylene Plastic Rod | 90mm | DF-EZN1-PPBK90/ | 100 or 50 |
| Polyurethane Plastic Rod | 3mm | DF-EZN1-PUNT03/ | 100 or 50 |

EZ NITRO

PLASTIC WELDER



* EZ NITROGEN WELDER
PICTURED WITH NITROGEN
TANK BUT IT IS NOT
INCLUDED WITH PURCHASE.
TANK SOLD SEPARATELY

Kit Includes:

- EZ Nitrogen Welder Unit
- Rolling Storage Stand
- Power Strip on the cart
- Hand Seaming Tool - 3.5"
- Dual Gauge Regulator
- Aluminum Tape Roll - 150ft
- Plastic Sample Pack
 - Polyurethane
 - Polypropylene
 - Polyethylene
 - Polycarbonate
 - ABS
 - Nylon

Optional Upgrades:

- Hot Stapler Kit (DF-800BR)
- Heat Gun (DF-900HG)

| NITROGEN PRESSURE | AIR PRESSURE | WEIGHT |
|-------------------|--------------|---------|
| 20 PSI | 20 PSI | 54 lbs. |

HOT STAPLES ALL



High Vibration:

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 footprint is larger than the Z-Clip. The extra width covers more surface area and adds rigidity. The larger footprint allows it to be used horizontally and vertically.



DF-800NC/50 (50 pc)
DF-800NC/250 (250 pc)



Stitch Holes:

This staple 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 give a clockwise twist while the staple still hot. This twist helps to further reinforce the repair area. Width covers more surface area and adds rigidity. The larger footprint allows it to be used horizontally and vertically.



DF-800SC/50 (50 pc)
DF-800SC/250 (250 pc)



Rounded Corner:

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.



DF-800UC/50 (50 pc)
DF-800UC/250 (250 pc)



Inside Corner:

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.



DF-800VC/50 (50 pc)
DF-800VC/250 (250 pc)

HOT STAPLER DELUXE DF-800BR



Kit Includes:

Hot Stapler
Finishing Iron (DF-800SI)
Filler Rods (DF-800FR)

x50 S-Clip StapleClips (DF-800SC/50)
x50 V-Clip StapleClips (DF-800VC/50)
x50 M-Clip StapleClips (DF-800MC/50)
x50 Z-Clip StapleClips (DF-800ZC/50)
x50 W-Clip StapleClips (DF-800WC/50)
x50 N-Clip StapleClips (DF-800NC/50)
Blow Molded Case



**MADE IN AMERICA
THE ORIGINAL
HOT STAPLER**

110

VOLT

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

VOLTAGE

110v

WEIGHT

5 lbs

MADE IN

USA

WARRANTY

5 YEARS

**Grip Corner:**

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.



DF-800WC/50 (50 pc)
DF-800WC/250 (250 pc)

**Stitch Tears:**

The most common variety used. Designed for repairing general tears the Z shape forms a natural stitch. Usually used for small and delicate tears. This staple is placed at intervals. Tighter staple intervals can be used on curved cracks and high load bearing areas.



DF-800ZC/50 (50 pc)
DF-800ZC/250 (250 pc)

**Outside Corner:**

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.



DF-800MC/50 (50 pc)
DF-800MC/250 (250 pc)

**Breakaway:**

There is an important feature to understand: what makes a Dent Fix Breakaway® Staple® breakaway. This small design element will cut cycle time and save technicians extra steps. The leads are notched, like someone took an ax to a tree, allowing them to be snapped off with a hand, instead of having to go back over with snips. The time savings does not stop there: if sunken deep enough the leads will break below the surface of the plastic eliminating the need to go back over with a grinder later. Over time these simple improvements make the difference in profitability and not going over the allocated time.

HOT STAPLER BASIC DF-400BR

**Kit Includes:**

Hot Stapler
x50 S-Clip StapleClips (DF-800SC/50)
x50 V-Clip StapleClips (DF-800VC/50)
x50 M-Clip StapleClips (DF-800MC/50)
x50 Z-Clip StapleClips (DF-800ZC/50)
Clear Storage Case



VALUABLE TOOL

110**VOLT**

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

VOLTAGE

110v

WEIGHT

6 lbs

MADE IN

TAIWAN

WARRANTY

1 YEAR

SWIVEL RIVETER DF-CT888

- Install difficult plastic rivets
- 360° rotational head
- Short travel squeeze handle
- Includes 5.0 & 6.3mm rivets
- Blow molded case

**EASY INSTALL
SWIVEL HEAD
NO PUMPING**

**ROTATIONAL
HEAD**



CONSUMABLES

PLASTIC RIVETS

5.0mm - 50 pc (DF-CT887RS)

6.3mm - 50 pc (DF-CT887RL)

SLIMLINE RIVETER DF-CT887

- Install difficult plastic rivets
- 2" gap clearance
- Works around wheel arches
- Includes 5.0 & 6.3mm rivets
- Blow molded case

**PERFECT FIT
SAVES TIME
COMPACT**

2"

GAP CLEARANCE



CONSUMABLES PLASTIC RIVETS

5.0mm - 50 pc (DF-CT887RS)
6.3mm - 50 pc (DF-CT887RL)



BLOW MOLDED CASE INCLUDED

3PC CLIP SET DF-618XL

- Removes fasteners & clips
- Great for upholstery removal
- Disassemble door panels
- 245x11, 370x11, 250x5mm
- Foam storage for tool drawer

3**PIECE****HARD TO
REACH**

5PC CLIP KIT DF-618LK

- For plastic fasteners & clips
- Used for upholstery removal
- Door panel removal
- Angled & curved for leveraging
- Foam storage for tool drawer

5**PIECE****FROM ANY
ANGLE****LEGACY TOOLS**

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"

1**PIECE****SAVE FRAGILE
PARTS**

CLIP PLIERS DF-624CP

- Remove plastic clips safely
- Quality steel construction
- Notched handle for extra grip
- Remove clips without damage
- Curved tip with grip teeth
- Length: 7.25"

1**PIECE****SURGICAL
DESIGN****LEGACY TOOLS**

MULTI-CLIP PLIERS DF-625

- Remove, pry, or cut tabs & clips
- Disassemble clips
- Also cuts tubing or zip ties
- Durable high-carbon steel frame

1**PIECE****LEVERAGE
ACTION****TECH
FAVORITE**

WEDGE LIFTER DF-WK20

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

1**PIECE****MUST HAVE
SHOP TOOL**

WEDGE SET DF-609

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

3**PIECES****MOLDING
REMOVAL**

COMBI WEDGE DF-619

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

2**TOOLS IN ONE****WEDGE PLUS
CLIP REMOVAL**

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

12**PIECES**

- Trim panel popper set
- Two pry bars
- Nine double-sided clip removers
- Double-sided dead blow hammer
- Blow molded hard case
- Sold as a set, not individually
- Detail Set



**27
PIECES**

TRIM PANEL SCRAPER SET DF-620TPS

**SAVE DELICATE
PARTS**

12

PIECES



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



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

MINOR DING/DENTS CREASE REPAIR QUICK & EASY

24

DIFFERENT NIBS

| INCLUDED WITH Ultra Ding Massager Kit | Assort. Nibs | Glue Sticks | Glue Gun | Knockdown | Round Tip | Pointed Tip |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| | DF-DM15 | DF-DM520GS | DF-DM530GG | DF-KDTE | DF-KDRT | DF-KDPT |
| Squeeze Puller | T-Puller | Slide Hammer | Scraper | Release Agent | Case | |
|  |  |  |  |  |  | |
| DF-DM540SP | DF-TPG | DF-DM530SH | DF-WK30 | DF-DM520RA | | |

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 49x33mm | 49x33mm | 35x24mm | 40x28mm | 34x23mm | 30x20mm |
|  |  |  |  |  |  |
| 41mm | 36mm | 32mm | 25mm | 20mm | 15mm |
|  |  |  |  |  |  |
| 41mm | 36mm | 32mm | 26mm | 21mm | 16mm |
|  |  |  |  |  |  |
| 48x33mm | 40x28mm | 33x23mm | 39x25mm | 30x20mm | 32x17mm |

**Kit Includes:**

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

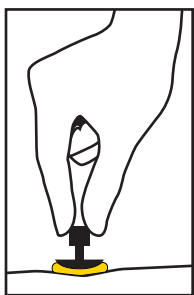
Optional Upgrades:

- High Strength Glue (DF-HS10)
- Prof. Strength Glue (DF-PG10)

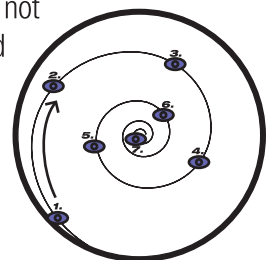
HOW DOES THE ULTRA DING MASSAGER PDR KIT WORK?

The repair area and the bottom surface area of the nib must be free of wax, grease, and dirt before any nibs are applied. It is also important for the damaged surface to be shaded and cool.

Hot glue is always applied to the entire bottom surface area of the plastic nib before being placed gently on the dent surface. For small dents place the nib with hot glue already applied, to the lowest point of the dent and float the nib approximately 1/8" between the panel and nib surface until the glue dries and hardens (10 to 20 seconds). Allow 2 to 3 minutes for the glue to fully set and then attach the Slide Hammer, Squeeze Puller, or T-Puller to the nib. Pull softly at first, gradually increasing tension & force. The Slide Hammer should be used for tapping action and not used with full force. A quick or forceful pull can release the bond prematurely or break the nib. For the larger dents, use the gluing process from above but start gently pulling from outside, where the dent is shallowest, and work your way in towards the deepest valley.



Multiple nibs will be gulled to the panel while going around pulling outside in different locations.



Crease pulling is now possible thanks to the newly included three piece Crease Nib Set. Using the same gluing technique as before place the Crease Nib "spine" in line with the valley of the crease. The two "wings" of the nib surface should be on either side of the valley. The wings apply lateral and uniform pulling to gently coax the crease back into place.

33-PIECE PDR ROD KIT DF-PDRKIT33

- Professionally crafted PDR rods and hangers in stainless steel
- Essential gathering of expertly designed pieces
- Access the back of the panel with ease
- Includes canvas storage case

**33
PIECES**

**THE RIGHT TOOL FOR THE JOB
MEANS BETTER RESULTS**

DING BOARD DF-DM510DBY



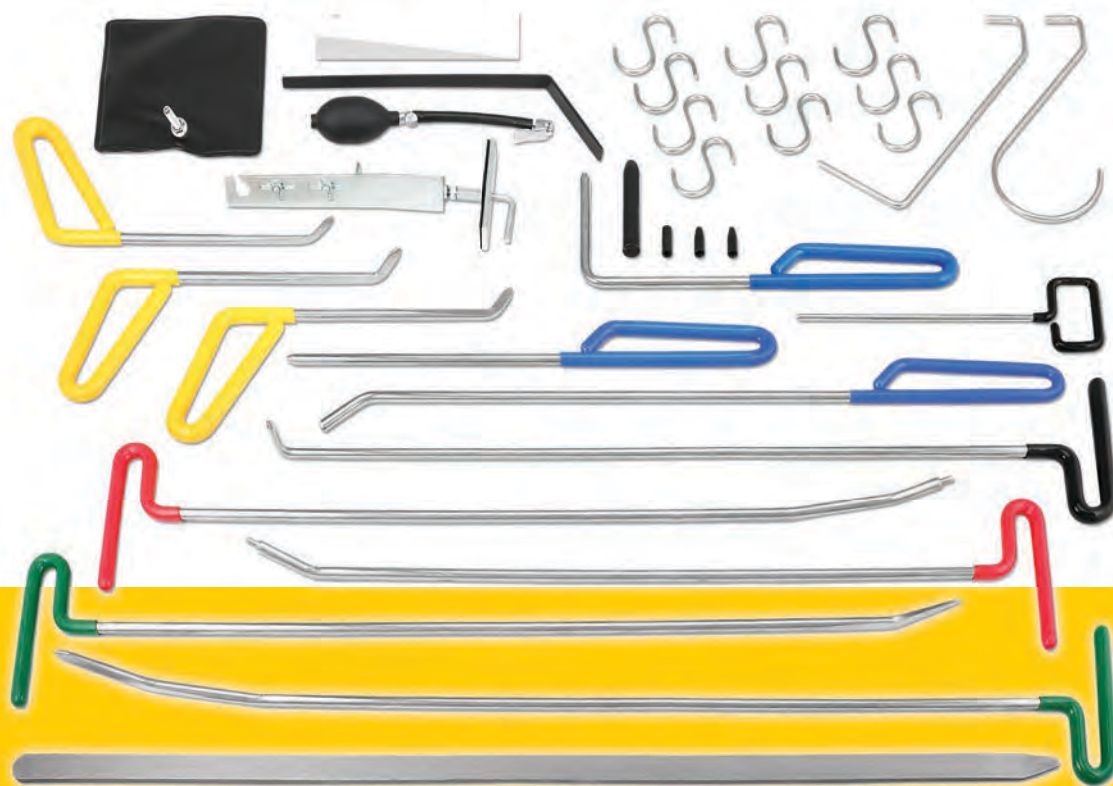
**REFLECTIVE
DENT DISCOVERY**

1

PIECE

- The board's reflection used to find small dents
- Yellow back ding board for high visibility
- Contrasting reflection suited for indoors
- Option: White for Outdoors # DF-DM510DBW





DEAD BLOW HAMMER KIT DF-DB79K

**CASE
INCLUDED**



GREAT FOR PDR WORK

6

TIPS

- Gently knock down high spots
- Remove glue residue with the wedge end
- Include case to store hammer & tips
- Option: Hammer Only # DF-DB69



RUBBER



ALUMINUM



STEEL



BRASS



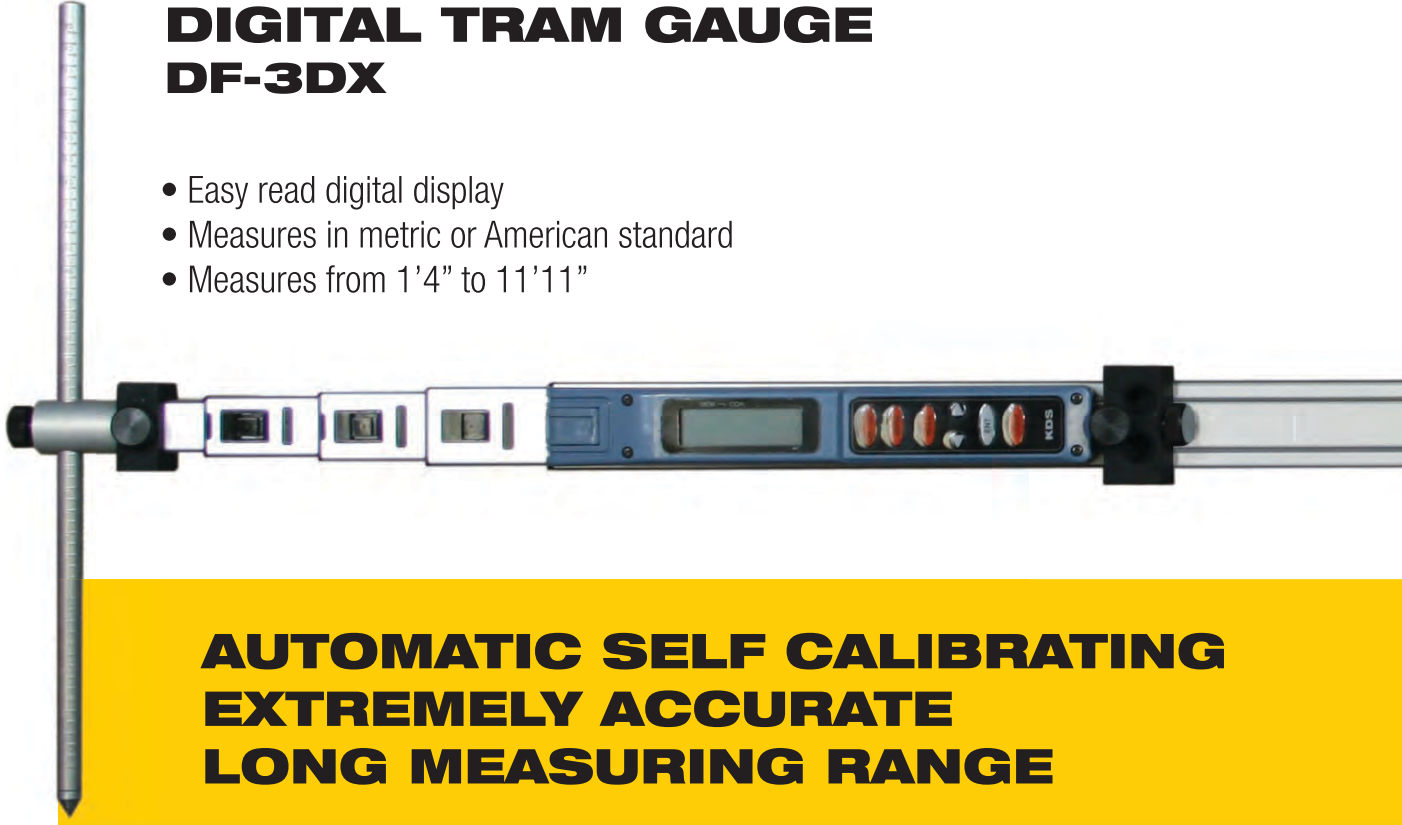
BRASS



PLASTIC

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**

5 METER TRAM DF-3TC5A

**VALUE ADDED
TRAM**

5

METER



- 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)



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)

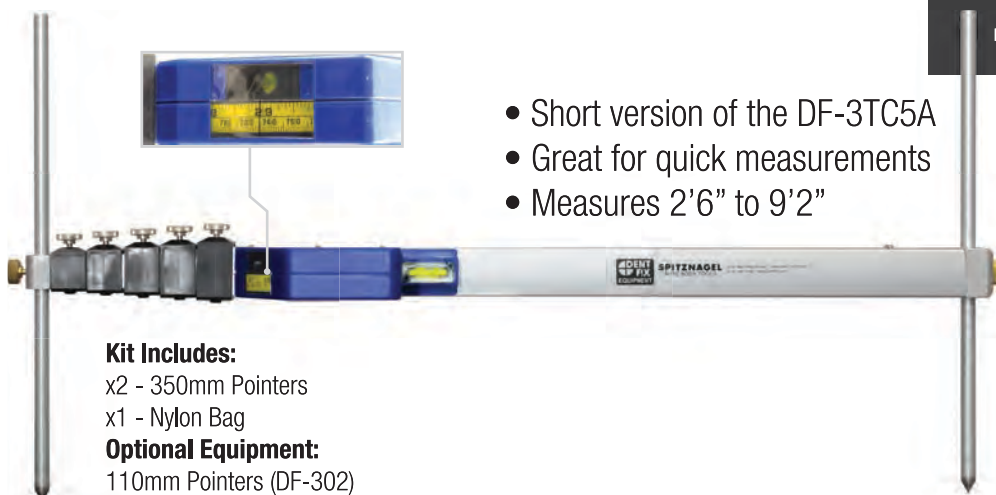
11' 11"
MAX

3 METER TRAM DF-3TC3A

**GREAT FOR
ESTIMATES**

3

METER



Kit Includes:

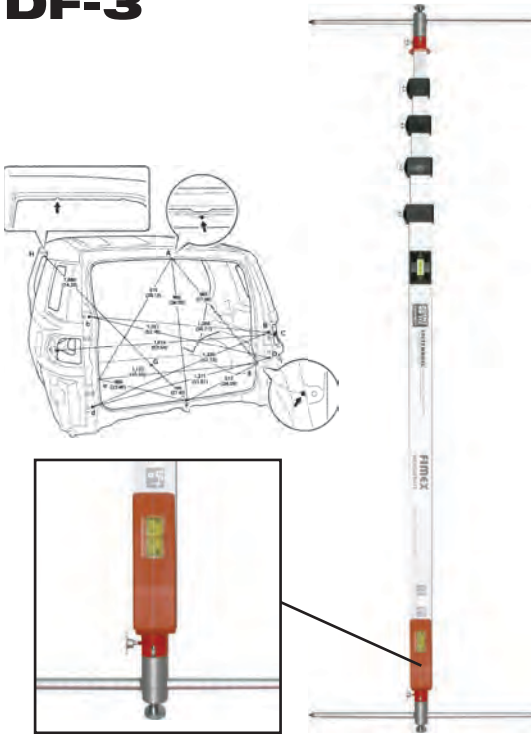
- x2 - 350mm Pointers
- x1 - Nylon Bag

Optional Equipment:

- 110mm Pointers (DF-302)

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

SWISS TRAM DF-3



**HIGHLY
ACCURATE**

10'6"

MAX

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

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

Optional Equipment:

- Tram Shortener (DF-311)

MINI TRAM DF-3S



**MINI & HIGHLY
ACCURATE**

3'3"

MAX

- 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

BODYLINE TOOL DF-BL10A



DRAW FENDER CURVE LINE

1**GOLF PENCIL**

- Re-create fender curve lines perfectly
- Trace block is adjustable up and down
- Made in the USA



PERFECT GAP GAUGE DF-PG213



SET EXACT FENDER GAP

2**PIECES**

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



MAGNETIC PAINT CLAMP DF-PC203



SUSPENDS THE OBJECT

1**PIECE**

- Strong & fast method for securing parts
- For a controlled spray painting or coating
- Magnetic base and powerful wedge grip



MAGNETIC FLEX CLAMP DF-FC205



FLEXIBLE NECK

1**PIECE**

- Strong & fast method for securing parts
- Move the part with the flexible neck
- Can be attached to magnetic spray booths

DOOR PROP STICK DF-DPS1



WORKS GREAT FOR PDR

15"

MAX LENGTH

- Secures a door, hatch, or hood in one position
- Three adjustment settings (11", 13", 15")
- Good for left or right use



MAGNETIC LED WORK LAMP DF-LED935



BRIGHT & POWERFUL

935

LUX

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

MAX HOURS

12

CHARGE TIME

4 HOURS

MAX LUX

935

BATTERY

LI-ION

TORNADOR BLACK DF-Z020



TURBO CHARGED

3,600
RPM

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

AIR PRESSURE

5.2-6.4 CFM @ 90PSI

AIR INLET

1/4"

FREE SPEED RPM

3,600

WEIGHT (DRY)

1.34 lbs

TORNADOR CLASSIC DF-Z010



ADD LIQUID CLEANERS

90
PSI

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

AIR PRESSURE

5.2-6.4 CFM @ 90PSI

AIR INLET

1/4"

JAR CAPACITY

32 oz

WEIGHT (DRY)

1.34 lbs

**TORNADOR
BLOW OUT TOOL
DF-Z014**



**PULSE
CLEANING**

70
PSI

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

| AIR PRESSURE | AIR INLET |
|---------------------|-----------|
| 5.2-6.4 CFM @ 70PSI | 1/4" |
| FREE SPEED | WEIGHT |
| 3,600 | 15 oz |

**FOAM GUN
DF-Z011**



**INSTANT
FOAM**

32
OZ JAR

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

| AIR PRESSURE | AIR INLET |
|----------------------|------------------|
| 5.2-6.4 CFM @ 90PSI | 1/4" |
| LIQUID CONSUMPTION | WEIGHT |
| @70 PSI 1 min: 32 oz | 2 lbs (0.90 kgs) |

CONSUMABLES

LIST OF CONSUMABLE ITEMS FROM DENT FIX

ALUMINUM

ALUSPOT (900DXE or 900DX)

Alu-Magnesium Stud Pins **M4x25mm**

DF-900PM (500 pc)

DF-900PM/250 (250 pc)



Alu-Magnesium Stud Pins **M4x12mm**

DF-900PM/SHORT (400 pc)



Alu-Silicon Stud Pins **M4x25mm**

DF-900PS (500 pc)

DF-900PS/250 (250 pc)



Alu-Silicon Stud Pins **M4x12mm**

DF-900PS/SHORT (400 pc)



Pull Finger

DF-900PF (1 pc)



Threaded Steel Eyelets

DF-900TE (5 pc)

SPR RIVETER (DF-SPR67)

Zinc Coated SPR Rivet **3.3x3.5mm**

DF-SPR33 (200 pc)



Zinc Coated SPR Rivet **3.3x4.0mm**

DF-SPR34 (200 pc)



Zinc Coated SPR Rivet **5.3x4.0mm**

DF-SPR54 (100 pc)



Zinc Coated SPR Rivet **5.3x5.0mm**

DF-SPR55 (100 pc)



Zinc Coated SPR Rivet **5.3x6.0mm**

DF-SPR56 (100 pc)



Zinc Coated SPR Rivet **5.3x7.0mm**

DF-SPR57 (100 pc)



Zinc Coated SPR Rivet **5.3x8.0mm**

DF-SPR58 (100 pc)



Zinc Coated SPR Rivet **5.3x9.0mm**

DF-SPR59 (100 pc)



STEEL

MAXI (DF-505/220v & 110V)

HAMMERHEAD (DF-595II)

Wiggle Wire Thin **0.062"**

DF-508 (1/2 lb | approx. 30 pc)



Wiggle Wire Thin **0.062"**

DF-507 (1 lb | approx. 60 pc)

Wiggle Wire Thick **0.093"**

DF-508TK (1/2 lb | approx. 15 pc)



Wiggle Wire Thick **0.093"**

DF-507TK (1 lb | approx. 30 pc)

TotalStik Stud Pins **2.0mm**

DF-20 (1000 pc)

DF-20/500 (500 pc)

DF-20/250 (250 pc)



TotalStik Stud Pins **2.6mm**

DF-26 (1000 pc)
 DF-26/500 (500 pc)
 DF-26/250 (250 pc)

Full Value Stud Pins **2.2mm**

DF-22FV (500 pc)

Full Value Stud Pins **2.6mm**

DF-26FV (500 pc)

MAXI Short Welding Rod **5.5"**

DF-503 (3 pc)

MAXI Long Welding Rod **10.0"**

DF-503L (3 pc)

HAMMERHEAD Short Welding Rod **7.0"**

DF-503iIR (3 pc) Threaded

HAMMERHEAD Long Welding Rod **11.0"**

DF-503iLR (3 pc) Threaded



Magnet Ground

DF-GM (1 pc)



Trigger Switch

DF-503T (1 pc)



Weld Keys
 (100 PC)

TWISTED



DF-503KT

FLAT



DF-503KF

NEW

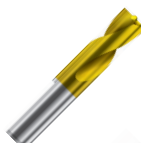
SPOT ANNIHILATOR SPOT WELD DRILL (DF-15DX)

Boron Killer Bit **8x45mm**

DF-1690 (Layered Tungsten-Carbide)

Hard Edge Bit **8x45mm**

DF-1680TC (Titanium Carbon Nitride)

Hard Edge Bit **10x45mm**

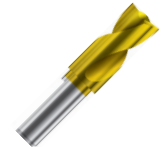
DF-1610TC (Titanium Carbon Nitride)

Heat Resistant Bit **8x45mm**

DF-1680T (Titanium Nitride)

Heat Resistant Bit **10x45mm**

DF-1610T (Titanium Nitride)

HSS Bit **6.5x45mm**

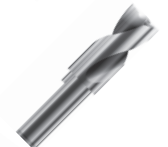
DF-1465 (High Speed Cobalt)

HSS Bit **8x45mm**

DF-1480 (High Speed Cobalt)

HSS Bit **10x45mm**

DF-1610 (High Speed Cobalt)



SPOT WELD BITS FOR 3/8" DRILL CHUCK

Variety Drill Bits

**6x80mm (x1),
 8x80mm (x3),
 10x80mm (x1)**

DF-1786VP

(Titanium Carbonitride)



Boron Killer Bit

6.7x80mm

DF-1667 (Layered Tungsten-Carbide)

HSS Bit **8x80mm**

DF-1780 (High Speed Cobalt)



Heat Resistant Bit

8x80mm

DF-1780T (Titanium Nitride)



PLASTIC

*HOT STAPLER (DF-800BR & 400BR)*Breakaway StapleClip **M-Clip**

DF-800MC/50 (50 pc)

DF-800MC/250 (250 pc)

Breakaway StapleClip **S-Clip**

DF-800SC/50 (50 pc)

DF-800SC/250 (250 pc)

Breakaway StapleClip **Z-Clip**

DF-800ZC/50 (50 pc)

DF-800ZC/250 (250 pc)

Breakaway StapleClip **U-Clip**

DF-800UC/50 (50 pc)

DF-800UC/250 (250 pc)

Breakaway StapleClip **W-Clip**

DF-800WC/50 (50 pc)

DF-800WC/250 (250 pc)

Breakaway StapleClip **V-Clip**

DF-800VC/50 (50 pc)

DF-800VC/250 (250 pc)

Breakaway StapleClip **N-Clip**

DF-800NC/50 (50 pc)

DF-800NC/250 (250 pc)

Plastic Fill Rods **Black**

DF-800FR (10 pc)

*PLASTIC RIVETER (DF-CT888 & CT887)*Plastic Rivets **5.7mm**

DF-CT887RS (50 pc)

Plastic Rivets **6.3mm**

DF-CT887RL (50 pc)



PAINT-LESS DENT REPAIR (PDR)

ULTRA DING MASSAGER

(DF-DM555UDX)

Glue **Amber, Original Strength**

DF-DM520GS (10 pc)

Glue **Red, High Strength**

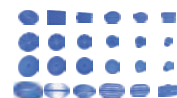
DF-HS10 (10 pc)

Glue **Yellow, Professional Strength**

DF-PG10 (10 pc)

PDR Nibs **Variety Pack**

DF-DM15 (24 pc)

PDR Nibs **Larger Circle, Bumps**

DF-DMCB (10 pc)

PDR Nibs **Smaller Circle, Divets**

DF-DMCD (10 pc)

PDR Nibs **Larger Circle, Bars**

DF-DMRL (10 pc)

PDR Nibs **Smaller Circle, Bars**

DF-DMRS (10 pc)

PDR Nibs **Crease**

DF-DMCP (10 pc)

Release Agent **Bottle**

DF-DM521RA (1 pc)



Plastic Scraper

DF-WK30 (1 pc)

Knock-down **Tool ONLY**

DF-KDTE (1 pc)

Knock-down **Tip ROUNDED**

DF-KDRT (1 pc)


Knock-down **Tip POINTED**

DF-KDPT (1 pc)





MEASUREMENT*DIGITAL MEASURING TRAM (DF-3DX)*Pointers **350mm**DF-301 (1 pc) Pointers **110mm**DF-302 (1 pc) Pointers **Cone**DF-305 (1 pc) Pointers **Bullet**DF-304 (1 pc) Pointers **Holders**DF-303 (1 pc) *SWISS TRAM & MINI TRAM (DF-3 & DF-3S)*Tram Shortener **DF-3 ONLY**DF-311 (1 pc) Pointers **350mm**DF-118 (1 pc) Pointers **280mm**DF-118A (1 pc) Pointers **Cone**DF-1180 (1 pc) Pointers **Bullet**DF-120 (1 pc) Pointers **Right Angle**DF-121 (1 pc) *3 & 5 METER TRAMS (DF-3TC3A & 3TC5A)*Pointers **350mm**DF-301 (1 pc) Pointers **110mm**DF-302 (1 pc) Pointers **700mm**DF-309 (1 pc) **DETAIL***TORNADOR (DF-Z014 & Z014B)*Replacement Weighted **Tube**

DF-SPZ010003 (1 pc)

Plastic Cone **with Brush**DF-SPZ010002B (1 pc) Plastic Cone **without Brush**DF-SPZ010002S (1 pc) *TORNADOR WITH RESERVOIR (DF-Z010 & Z010B)*Replacement Weighted **Tube**

DF-SPZ010003 (1 pc)

Plastic Cone **with Brush**DF-SPZ010002B (1 pc) Plastic Cone **without Brush**DF-SPZ010002S (1 pc) Plastic Jar **32oz**

DF-SPZ010021 (1 pc)