

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

ZD500DX  
SOLDAPULLT  
Self-Contained  
Deluxe Hot Tip  
Desoldering  
Station, Page 32



# DESOLDERING

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# ZD500DX SOLDAPULLT®



## Self-Contained Deluxe Hot Tip Desoldering Station

A self-contained, high performance and cost-efficient desoldering station that delivers maximum heat transfer with zero crossing circuitry for ESD-safe operation.



- Powerful 70W high output PTC element makes heavy multi-layer boards easy to desolder
- Adjustable hand tool design provides comfortable working angles
- Powerful vacuum pulse (implosion) from stored vacuum in hose, 21" Hg minimum
- Single burn resistant cord for power and vacuum
- External calibration helps with ISO9000 compliance

### Specifications for Model ZD500DX

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	95W - 200W
<b>Heater Rating</b>	24V, 70W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	5.0"W x 8.5"H x 9.0"D 127 mm x 216 mm x 229 mm
<b>Weight</b>	
<b>Power Supply</b>	PS501 6 lbs/2.7 kg
<b>Desoldering Hand Tool</b>	HT500-2 11 oz/312 g

### Contents

<b>PS501</b>	Power Supply
<b>HT500-2</b>	Hot Tip Desoldering Hand Tool (Includes ZD13 desoldering tip)
<b>SH232</b>	Sponge Holder with R199 Cleaning Sponge

### Accessory Kit Includes:

WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT619	Tip Wrench for Retaining Sleeve
WP556	WIGAPRY Low Static Computer Aid
CS468	Tip Cleaning Shaft for Desoldering Tips
CS468-1	Tip Cleaning Shaft for Small Desoldering Tips
AN122	Anti-Seize Compound
OL111	O-Ring Lube
MS229	Mica Sheet for HT500-2
AF629	Felt Filter for AF110
AF625	Felt Filter for HT500-2
AF040	Foam Filter for AF110



To reach deep, dense and compact areas, use the ZD111 desoldering tip as shown above

# ZD505V SOLDAPULLT<sup>®</sup>

## Hot Tip Desoldering Station

A high performance and cost-efficient desoldering station that delivers maximum heat transfer with zero crossing circuitry for ESD-safe operation.



- Requires clean and dry shop air, 60-90 psi
- Powerful 70W high output PTC element makes heavy multi-layer boards easy to desolder
- Adjustable hand tool provides comfortable working angles
- External calibration makes ISO9000 compliance easier
- Single burn resistant cord for power and vacuum

### Specifications for Model ZD505V

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	20W - 150W
<b>Heater Rating</b>	24V, 70W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	5.0"W x 9.5"H x 9.0"D 127 mm x 241 mm x 229 mm
<b>Weight</b>	
<b>Power Supply</b>	PS900-1 4.1 lbs/1.8 kg
<b>Desoldering Hand Tool</b>	HT500 11 oz/312 g
<b>Vacuum Generator</b>	PM100 11.5 oz/327 g

### Contents

<b>PS900-1</b>	Power Supply, 24V
<b>HT500</b>	Hot Tip Desoldering Hand Tool (Includes ZD13 Desoldering Tip)
<b>PM100</b>	Vacuum Generator

### Accessory Kit Includes:

WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT619	Tip Wrench, for Retaining Sleeve
WP556	WIGAPRY Low Static Computer Aid
CS468	Tip Cleaning Shaft for Desoldering Tips
CS468-1	Tip Cleaning Shaft for Small Desoldering Tips
AN122	Anti-Seize Compound
OL111	O-Ring Lube
MS229	Mica Sheet for HT500
AF629	Felt Filter for AF110
AF625	Felt Filter for HT500
AF040	Foam Filter for AF110

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## DS117/DS217 AUTO-VAC



## AUTO-VAC Power Head and Holder Features

- Requires vacuum source
- Continuous suction from vacuum source when trigger is pressed
- Self cleaning
- Large chamber reduces clogging and minimizes maintenance
- DS317/DS417/DS517/ZD100 are designed for desoldering static safe sensitive components
- DS517 has a short, slim aluminum barrel and threaded replacement tip
- ZD100 desoldering tool features:
  - Adjustable hand tool for comfortable working angles
  - Quick and easy replacement tiplet
  - Two-stage filter system

## DS317/DS417 SILVERSTAT



## DS517 LOW STATIC AUTO-VAC



## ZD100 AUTO-VAC Quick Change



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### Contents

#### DS117

PH177 Power Head with DT113 Standard Tip  
PH178 Power Head Holder

#### DS217

PH245 Power Head with DT114 Micro Tip  
PH182 Power Head Holder

#### DS317

PH246 Power Head with LS197 Standard Tip  
PH184 Power Head Holder

#### DS417

PH201 Power Head with LS215 Micro Tip  
PH202 Power Head Holder

#### DS517

PH358 Power Head with LS561 Micro Tip  
PH247 Power Head Holder

#### ZD100

ZD100-1 Power Head with LS135 Replacement Tip  
PH100 Power Head Holder

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## VP171/VS171A/VS174 ATMOSCOPE Vacuum Generators

### VP171



### VS171A



### VS174



### VS174

- ESD-safe construction
- Requires clean and dry shop air, 60 - 90 psi  
 4.1 - 6.2 bar
- Quiet three-stage high efficiency filtration system  
 for fume extraction
- Vacuum inlet for VS174: 3/16" - 1/4" i.d.,  
 4.8 mm - 6.3 mm i.d. hose

### VP171 and VS171A

- ESD-safe construction
- Requires clean and dry shop air,  
 60 - 90 psi/4.1 - 6.2 bar
- 15 - 22 in. Hg/381- 559 mm Hg quiet vacuum
- Automatic shut-off mechanism
- The VP171 has a large vacuum tank to support six  
 AUTO-VAC desoldering stations



**TYPICAL SET-UP** VP171 ATMOSCOPE vacuum generator  
 with DS317 and ZD100



**TYPICAL SET-UP** VS171A ATMOSCOPE vacuum generator  
 with ZD505



**TYPICAL SET-UP** VS174 ATMOSCOPE vacuum generator  
 with 971FX

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## DS017 Deluxe **SOLDAPULLT**®

- “The Original” Deluxe desoldering tool
- Designed for heavy duty, high volume applications
- High efficiency, durable construction
- Retractable shaft guide for portability and easy storage



## PT109/PT209/PT309 **SOLDAPULLT**® III

- Lightweight, petite barrel for smaller hands
- PT209 is a micro-tip model
- PT309 has 2" longer reach for desoldering components located in deep areas



## US140/US240 Universal **SOLDAPULLT**®

- Delivers powerful vacuum impulse
- Single-handed loading system
- Adjustable loading stroke to reduce hand strain
- US240 is a micro-tip model



## SS750 Standard Metric **SOLDAPULLT**® Challenger

- High quality, low cost
- Designed for desoldering basic electronic components
- Ideal for hobbyist
- Easy to maintain



Replacement Tip	SOLDAPULLT						
	DS017	PT109	PT209	PT309	US140	US240	SS750
<b>LRT14</b> i.d. = .125"/3.2 mm L = 2.00"/50.8 mm				☞			
<b>MRT16</b> i.d. = .084"/2.4 mm L = .536"/13.6 mm			☞			☞	
<b>SRT12</b> i.d. = .125"/3.2 mm L = .536"/13.6 mm	☞	☞			☞		
<b>SRT751</b> i.d. = .100"/2.5 mm L = .875"/22.2 mm							☞
<b>O-Ring</b>	Use OL111 O-Ring Lube for lubrication						
<b>OB207</b> (use for replacement tiplet)							○
<b>ODS31</b>	○				○	○	
<b>OSB32</b>		○	○	○			
<b>OS130</b>							○

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## AS196 SILVERSTAT *SOLDAPULLT*®

- Static safe conductive plating
- Designed for heavy duty, high volume applications
- High efficiency, durable construction
- Retractable shaft guide for portability and easy storage

## DS017LS Low Static Deluxe *SOLDAPULLT*®

- Molded from conductive material
- High efficiency and durable construction
- Retractable shaft guide for portability and easy storage

## US340 Low Static Universal *SOLDAPULLT*®

- Powerful vacuum
- Low static barrel
- Single-handed loading system
- Adjustable loading stroke to reduce hand strain

## SS350/SS750LS Standard Metric Low Static *SOLDAPULLT*® Challenger

- High quality, low cost
- Both SS350 and SS750LS are designed for single-handed operation
- The SS350 has aluminum barrel for easy cleaning

Replacement Tip			SOLDAPULLT				
			AS196	DS017LS	US340	SS350	SS750LS
<b>LS197</b>	i.d. = .125"/3.2 mm	L = .536"/13.6 mm					
<b>LS363</b>	i.d. = .125"/3.2 mm	L = .536"/13.6 mm					
<b>LS751</b>	i.d. = .100"/2.5 mm	L = .875"/22.2 mm					
O-Ring			Use OL111 O-Ring Lube for lubrication				
<b>ODS31</b>							
<b>OB207</b> (use for replacement tiptet)							
<b>OS130</b>							

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**DS017QC**  
 Deluxe **SOLDAPULLT**<sup>®</sup>  
 Quick Change

- Low cost tip replacement, slim nose for longer reach
- Designed for heavy duty, high volume applications
- High efficiency, durable construction
- Retractable shaft guide for portability and easy storage



Length - 13.0"/330 mm Weight - 3.5 oz/99 g

**DS017LQ**

Low Static Deluxe **SOLDAPULLT**<sup>®</sup>  
 Quick Change

- Molded from conductive material
- Designed for heavy duty, high volume applications
- High efficiency, durable construction
- Retractable shaft guide for portability and easy storage



Length - 13.0"/330 mm Weight - 3.5 oz/99 g

**PT109MT**

Metric Tip **SOLDAPULLT**<sup>®</sup> III

- Powerful vacuum
- Low cost triplet replacement
- Includes QG751 squeegee tip
- Retractable shaft for portability and easy storage



Length - 11.5"/292 mm Weight - 2.0 oz/57 g

**PT409MT**

Metric Tip Static Safe  
**SOLDAPULLT**<sup>®</sup> III

- Molded from conductive material
- Low cost triplet replacement
- Includes QG754 squeegee tip
- Retractable shaft for portability and easy storage



Length - 11.5"/292 mm Weight - 2.0 oz/57 g

Replacement Tiplet	SOLDAPULLT			
	DS017QC	DS017LQ	PT109MT	PT409MT
<b>SRT035</b> i.d. = .125"/3.2 mm L = .850"/21.6 mm				
<b>SRT754</b> i.d. = .125"/3.2 mm L = .850"/21.6 mm				
<b>LS135</b> i.d. = .125"/3.2 mm L = .850"/21.6 mm				
<b>LS753</b> i.d. = .125"/3.2 mm L = .850"/21.6 mm				
<b>O-Ring</b>	Use OL111 O-Ring Lube for lubrication			
<b>ODS31</b>				
<b>OSB32</b>				



# Crib Notes for ZD500DX/ZD505V Desoldering Stations

## 1. Specifications

<b>Mil-Specs</b>	DOD-STD-2000-1B, WS-6536E, MIL-STD2000
<b>Low Static ESD-Safe</b>	DOD-STD-1686, DOD-HDBK-263
<b>Control Circuit</b>	Closed Loop Zero Crossing

## 2. Easy Maintenance

<b>Desoldering Tip</b>	<p>Always use genuine EDSYN tips. Use CS468/CS468-1/CS468-2 cleaning shafts to keep tips clear and free from oxidation build up.</p> <p>To prevent tip from seizing, remove tip from housing and wipe or brush off any oxidation build up.</p> <p>Keep tips tinned to make them last longer and perform better. Keep temperature as low as possible.</p>
<b>Filters</b>	Replace AF625 replacement filter when it starts turning yellow.

## 3. Spare Parts


Part Number	Description
<b>HT500/HT500-2</b>	<b>Desoldering hand tool</b>
AC737	Accumulator bushing
AF625	Replacement filter set (10)
CS468	Large dia. cleaning shaft
CS468-1	Small dia. cleaning shaft
CS468-2	Extra small dia. cleaning shaft
FC640	Filter cartridge assembly
HT01	Delivery tube
HT500H	Heater head assembly
MS229	Replacement mica sheets
OL111	O-Ring lube
RS383	Retaining sleeve
SR120	Heating element
SR136	Desoldering head housing
SR335	Valve assembly
WT619	Tip wrench
<b>PS900-1/PS501</b>	<b>Power Supply</b>
RS199	Replacement sponge
SR082	Circuit board
<b>PM100</b>	<b>ATMOSCOPE Vacuum generator (For ZD505V only)</b>
AF629	Felt filter
AF040	Foam filter
SR636	Silencer end cap

## 4. Additional Features

- Large delivery tube reduces clogging
- Easy maintenance and replacement
- Modular design for easy service
- UL listed
- 18 month warranty
- Made in USA

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## 5. General Purpose Tips

Part Number	Hole Diameter	Length
ZD12	.03"/0.8 mm	.50"/12.7 mm
ZD13	.04"/1.0 mm	
ZD14	.06"/1.5 mm	


## 6. Funnel Tips

Part Number	Hole Diameter	Length
ZD107	.02"/0.5 mm	.48"/12.2 mm
ZD112	.03"/0.8 mm	

## 7. Surface Mount Desoldering Tips

Part Number	Hole Diameter	Length
ZD58	.13"/3.3 mm	.55"/14.0 mm
ZD60	.15"/3.8 mm	

## 8. Economy Replacement Tips

Part Number	Hole Diameter	Length
ZD25	.03"/0.8 mm	.39"/9.9 mm
ZD27	.07"/1.8 mm	

# Crib Notes for AUTO-VAC Desoldering Stations

## DS117, DS217, DS317, DS417, DS517, ZD100

### 1. Easy Maintenance

#### Hand Tool

Clean barrels and o-rings on a regular basis

Always lube o-ring with OL111

To avoid tip burn out, do not rest the desoldering tip on the soldering iron when desoldering. Instead, hold the tip just above the joint being desoldered.

### 3. Additional Features

- PH117, PH245, PH246, PH201 power heads weigh 3 oz/85 g
- PH358 hand tool weighs 2 oz/57 g
- PH178, PH182, PH184, PH202 power head holders weigh 15 oz/426 g
- PH247 power head holder weighs 14 oz/398 g
- Made in USA

### 2. Spare Parts

Part Number	Description
AF137	Filter for DS117, DS217, DS317, DS417
AF139	Quick change filter for ZD100
AF385	Filter for DS517
AV060	Trigger assembly kit for DS117, DS217, DS317, DS417, DS517
CB138	Cleaning shaft for DS117, DS317
CB138M	Cleaning shaft for DS217, DS417
CS332	Cleaning shaft for ZD100
DT113	Replacement tip for DS117
DT114	Replacement tip for DS217
FC640	Filter cartridge assembly for ZD100
HS320	Low static silicone hose for DS117, DS217, DS317, DS417, DS517 (sold by the foot)
LQ125	Clip cartridge with 3 - LS135 tiplets for ZD100
LS135	Replacement triplet for ZD100
LS197	Replacement tip for DS317
LS215	Replacement tip for DS417
LS561	Replacement tip for DS517
OL111	O-ring lube
SR194	Replacement barrel for DS317
SR195	Replacement barrel for DS417
SR196	Baffle for DS117, DS217, DS317, DS417
SR212	Replacement barrel for DS117
SR213	Replacement barrel for DS217
SR214	Replacement barrel for DS517
SR215	Yoke, valve adapter for DS517
SR216	Trigger valve assembly for DS517

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# Crib Notes for ATMOSCOPE Vacuum Generators SOLDAPULLT Manual Desoldering Hand Tools

## 1. Easy Maintenance

<b>Hand Tool</b>	Clean barrels and o-rings on a regular basis
	Always lube o-ring with OL111
	To avoid tip burn out, do not rest the desoldering tip on the soldering iron when desoldering. Instead, hold the tip just above the joint being desoldered.
<b>Vacuum Generators</b>	Replace filters

## 2. Spare Parts

<b>SOLDAPULLT Hand Tool</b>	
<b>Part Number</b>	<b>Description</b>
SR040	Barrel for PT109
SR284	Barrel for US140
SR286	Barrel for DS017
SR287	Barrel for AS196
SR288	Barrel for PT209
SR289	Trigger/Plunger assembly for US140
SR290	Trigger/Plunger assembly for US240
SR291	Trigger/Plunger assembly for US340
SR292	Trigger/Plunger assembly for DS017LS, DS017LQ, AS196
SR293	Trigger/Plunger assembly for DS017, DS017QC
SR296	Barrel for US240
SR297	Barrel for US340
SR391	Trigger/Plunger assembly for PT109
SR392	Trigger/Plunger for PT209
SR537	Barrel for DS017LS
SR660	Barrel for DS017QC
SR661	Barrel for DS017LQ
<b>ATMOSCOPE Vacuum Generator</b>	
<b>Part Number</b>	<b>Description</b>
HS320	Vacuum hose for VP171 and VS171A
OV367	O-ring set for VP267
SR596	Condenser pad for VS174
VF134	Felt filter for VS174
VF188	Foam filter for vacuum tank
VM033	Foam filter for VS174
VM034	Muffler element for VP268
VP189	Plugs for vacuum tank
VP267	REGUBLASTER assembly for VP171 and VS171A
VP268	QUIETURI assembly for VP171 and VS171A
VTG59	Vacuum gauge
VTG63	Gasket for VP171 tank
VT190	Vacuum tank for VP171

## 3. Additional Features

- AS196, DS017/LS/QC/LQ, PT109/209/309 and PT109/409MT have retractable shaft guides for easy storage
- Powerful vacuum implosion
- Vacuum generators are non-electrical and have few moving parts
- Strong, lightweight construction
- Made in USA

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