

ZD505V



Features


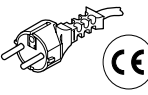
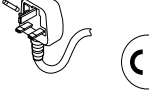

- Outstanding performance and cost-efficient station ideal for heavy duty applications that require maximum heat transfer (requires shop air 60-90 psi)
- Powerful 70W high output PTC element makes heavy multi-layer boards easy to desolder
- Adjustable and ergonomic hand tool design provides comfortable working angles
- Easy to maintain and calibrate with external calibration feature
- 18 month warranty & ESD safe

Contents

| | |
|--------|--|
| ZD505V | Shop air powered hot tip desoldering station includes PM100 vacuum generator and HT500 hand tool with ZD13 tip |
| SH230 | Sponge holder includes RS199 cleaning sponge |

Accessory Kit

| | |
|---------|--|
| WT623 | Tip wrench, dual open end, 1/4" & 3/4" |
| WT619 | Tip wrench, for retaining sleeve |
| WP556 | WIGAPRY [®] mini screwdriver and calibration aid tool |
| CS468 | Tip cleaning shaft for desoldering tips |
| CS468-1 | Tip cleaning shaft for small desoldering tips |
| AN112 | Anti-Seize compound |
| OL111 | O-Ring lube |
| MS229 | 1 pc. mica sheet for HT500 |
| AF629 | 1 pc. felt filter for AF110 |
| AF625 | 1 pc. felt filter for HT500 |
| AF040 | 1 pc. foam filter for AF110 |

| Models & Specifications | ZD505V | ZD505V-230 | ZD505V-230B | ZD505V-H9-230B |
|--|--|--|--|---|
| Power Requirements | 120V, 60Hz | 230V, 50Hz | 230V, 50Hz | 230V, 50Hz |
| Power Rating | 20W - 150W | 20W - 150W | 20W - 150W | 20W - 150W |
| Heater Rating | 24V, 70W | 24V, 70W | 24V, 70W | 24V, 70W |
| Plug | USA Standard  UL | European  CE | British  CE | British  CE Unit calibrated to 900°F |
| Weight | 4.1 lbs (1.8 kg) | | | |
| Overall Dimension | 5.0"W x 9.5"H x 9.0"D (127 mm x 241 mm x 229 mm) | | | |
| Temperature Range | 400°F-800°F (205°C - 427°C) | | | |
| Temperature Regulation | ±6°F (±3°C) | | | |
| Tip-to-Ground Voltage Leakage/Resistance | < 2mV / < 2 ohms | | | |





DS017 Length: 13"(330mm) Wt: 3.5oz (99g)

"The Original" Deluxe SOLDAPULLT®

- Designed for heavy duty, high volume applications
- Easy one-hand loading and operation
- Integral cleaning shaft self-cleans no-stick PTFE tip



AS196 Length: 13"(330mm) Wt: 3.5oz (99g)

SILVERSTAT® SOLDAPULLT®

- The "Rolls Royce" of static safe desoldering hand tools
- Identical in size and performance to the DS017
- Engineered with conductive plating
- Especially designed for desoldering of static safe components



DS017LS Length: 13"(330mm) Wt: 3.5oz (99g)

Static Safe Deluxe SOLDAPULLT®

- Same as DS017 but molded from conductive plastic



PT109 Length: 12"(304mm) Wt: 2.5oz (71g)

SOLDAPULLT® III

- Smooth acting, light weight spring loaded tool
- Similar to the DS017 but with petite barrel for smaller hands
- Locking retractable shaft guide for portability and compact storage
- Integral cleaning shaft self-cleans no-stick PTFE tip



PT409 Length: 12"(304mm) Wt: 2.5oz (71g)

Static Safe SOLDAPULLT® III

- Same as PT109 but molded from conductive plastic



PT209 Length: 12"(304mm) Wt: 2.5oz (71g)

Micro Tip SOLDAPULLT® III

- Micro tip version of PT109 for heavily populated circuit boards and precision work
- Light weight petite barrel for smaller hands
- Locking retractable shaft guide for portability and compact storage
- Integral cleaning shaft self-cleans no-stick micro PTFE tip



US140 Length: 8.5"(216mm) Wt: 1.5oz (43g)

Universal SOLDAPULLT®

- Compact single-handed loading system
- Adjustable loading stroke to fit individual needs
- Loading and trigger release done with thumb

*See page 37 for a complete list of Replacement Tips and O-Rings



SS011 Length: 8"(203mm) Wt: 1.7oz (49g)

Static Safe SOLDAPULLT® Successor

- Static protection for sensitive devices
- Precision engineered metal barrel & static safe PTFE tip
- Simple single handed loading system



SS102 Length: 8"(203mm) Wt: 1.9oz (54g)

Micro Tip Static Safe SOLDAPULLT® Successor

- Micro tip version of SS011 for heavily populated boards and precision work
- Palm grip or finger touch trigger for easier handling
- Precision engineered metal barrel & static safe PTFE tip
- Simple single handed loading system



SS343 Length: 8.5"(216mm) Wt: 1.4oz (40g)

Static Safe Pico Tip Challenger SOLDAPULLT®

- New pointed pico tip for precision desoldering and high vacuum velocity for optimum performance
- Precision engineered metal barrel & static safe PTFE tip
- Simple single-handed loading system
- Static protection for sensitive devices



SS750LS Length: 8.5"(216mm) Wt: 1.2oz (34g)

Economical Static Safe Challenger SOLDAPULLT®

- Compact static safe barrel
- Quick change tiplet for no hassle maintenance
- Simple single-handed loading system



SS350 Length: 9"(229mm) Wt: 1.4oz (40g)

Static Safe Challenger SOLDAPULLT®

- Outstanding quality for the professional or hobbyist
- Precision engineered metal barrel & static safe PTFE tip
- Simple single-handed loading system
- Adjustable loading stroke to reduce hand strain



US340 Length: 8.5"(216mm) Wt: 1.5oz (43g)

Static Safe Universal SOLDAPULLT®

- Same as US140 but molded from conductive material
- Compact single-handed loading system
- Adjustable loading stroke to fit individual needs
- Loading and trigger release done with thumb





DS117



DS317



DS517

Common Features

- All models feature a self-cleaning automatic vacuum desoldering system that runs on continuous suction when trigger is pressed (requires external vacuum source - see VP171 or VS171A on next page for options)
- Convenient Auto- Vac® trigger on hand piece for quick action precise vacuum control
- Ideal for heavy duty work, large wiring, terminals, IC's and connectors
- Handle pulls off easily for easy cleaning and maintenance

Unique Features

- **DS117** is a heavy duty unit with a large clear plastic chamber to reduce clogging, hold more debris and visually determine when maintenance and cleaning is required. Power piston in holder cleans the tip whenever Auto- Vac® trigger is depressed
- **DS317** is a heavy duty unit especially designed with static-safe conductive plating for static sensitive components
- **DS517** is precision engineered metal barrel with static safe PTFE tip and has a slim aluminum anodized barrel for smaller hands

Contents

DS117

- | | |
|-------|-------------------------------------|
| PH177 | Power Head with SRT12 Standard Tip |
| PH178 | Power Head Holder |
| OA193 | O-Ring Set of 5 (for PH177 & PH178) |

DS317

- | | |
|-------|-------------------------------------|
| PH246 | Power Head with LS197 Standard Tip |
| PH184 | Power Head Holder |
| OA195 | O-Ring Set of 3 (for PH177 & PH246) |

DS517

- | | |
|-------|---------------------------------|
| PH358 | Power Head with LS561 Micro Tip |
| PH247 | Power Head Holder |
| OA197 | O-Ring Set of 3 |





VP171

Common Features

- No electrical hookup required
- Self regulating
- Stored vacuum provides instant vacuum response
- ESD-safe construction
- Requires clean and dry shop air:
60 - 90 psi/4.1 - 6.2 bar
- Quiet vacuum: 15 - 22 in. Hg/381- 559 mm
- Automatic shut-off mechanism



VS171A

Unique Features

- **VP171** has a large vacuum tank to support six separate desoldering applications
- **VS171A** has a vacuum tank to support one desoldering application



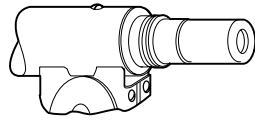
Typical set up for the VP171 ATMOSCOPE® vacuum generator with DS317 (can connect up to six desoldering tools)

| Models & Specifications | VP171 | VS171A |
|-------------------------|-------------------|--------------------|
| Dimensions | 10" x 6.2" x 7.6" | 8.3" x 4.1" x 6.8" |
| Weight | 2.9 lb (1.3 kg) | 1.4 b (.63 kg) |



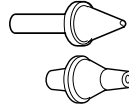
Heater Desoldering Tools and Stations

| Part No. | Description |
|----------|---|
| ZD500DX | SOLDAPULLT® Self-Contained Hot Tip Desoldering Station (includes all 230V models) |
| ZD505V | SOLDAPULLT® Hot Tip Desoldering Station (includes all 230V models) |

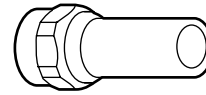


HT500 Heater

General Purpose Tip

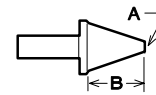







Funnel Tip




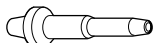


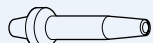

RS383 Retaining Sleeve

Iron-Plated General Purpose Tips




| Part No. | Tip Image | Width A | Length B |
|----------|---|--------------|---------------|
| ZD12 |  | .03" (0.8mm) | .50" (12.7mm) |
| ZD13 |  | .04" (1.0mm) | .50" (12.7mm) |
| ZD14 |  | .06" (1.5mm) | .50" (12.7mm) |
| ZD18 |  | .07" (1.8mm) | .50" (12.7mm) |
| ZD19 |  | .12" (3.0mm) | .50" (12.7mm) |

Iron-Plated Funnel Tips

| | | | |
|-------|---|---------------|----------------|
| ZD107 |  | .02" (10.5mm) | .48" (12.2mm) |
| ZD111 |  | .03" (0.8mm) | 1.22" (31.0mm) |
| ZD112 |  | .03" (0.8mm) | .48" (12.2mm) |
| ZD113 |  | .04" (1.0mm) | .48" (12.2mm) |
| ZD115 |  | .07" (1.8mm) | 1.22" (31.0mm) |
| ZD118 |  | .07" (1.8mm) | .48" (12.2mm) |

Portable Replacement Tips and O-Rings

| Soldapullt® Part No. | Tip Part No. | Tip Image | i.d. | L | Replacement O-Ring Part No. |
|----------------------|--------------|---|---------------|----------------|-----------------------------|
| AS196 | LS197 |  | .136" (3.4mm) | .53" (13.5mm) | ODS31 |
| DS017 | SRT12 |  | .136" (3.4mm) | .53" (13.5mm) | ODS31 |
| DS017LS | LS197 |  | .136" (3.4mm) | .53" (13.5mm) | ODS31 |
| DS117 | SRT12 |  | .136" (3.4mm) | .53" (13.5mm) | OA193 & ODS31 |
| DS317 | LS197 |  | .136" (3.4mm) | .53" (13.5mm) | OA195 & ODS31 |
| DS517 | LS561 |  | .098" (2.5mm) | .53" (13.5 mm) | OA197 |
| PT109 | SRT12 |  | .136" (3.4mm) | .53" (13.5mm) | OSB32 |
| PT209 | MRT16 |  | .098" (2.5mm) | .53" (13.5mm) | OSB32 |
| PT409 | LS197 |  | .136" (3.4mm) | .53" (13.5mm) | OSB32 |
| SS011 | LS363A |  | .136" (3.4mm) | .53" (13.5mm) | OS130 |
| SS102 | LS364A |  | .098" (2.5mm) | .53" (13.5mm) | OS130 |
| SS343 | LS915 |  | .070" (1.8mm) | .53" (13.5mm) | OS130 |
| SS350 | LS363 |  | .136" (3.4mm) | .53" (13.5mm) | OS130 |
| SS750LS | LS751 |  | .107" (2.7mm) | .50" (12.7mm) | OS130 |
| US140 | SRT12 |  | .136" (3.4mm) | .53" (13.5mm) | ODS31 |
| US340 | LS197 |  | .136" (3.4mm) | .53" (13.5mm) | ODS31 |

Maintenance Tip: Use OL111 O-Ring lube for lubrication and longer tool life

