





Operation and Maintenance Manual for the TD-100 and MT-100 Handpieces (Intelliheat and Heatwise/Tempwise Systems)

P/N 5050-0532 Rev A



Baskiville Ltd. Tel: 0508 227548





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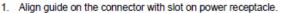
Safety Guidelines

The following are safety precautions that personnel must understand and follow when using or servicing this product.

- POTENTIAL SHOCK HAZARD Repair procedures on PACE products should be performed by Qualified Service Personnel only. Line voltage parts may be exposed when the equipment is disassembled. Service personnel must avoid contact with these parts when troubleshooting the product.
- To prevent personnel injury, adhere to safety guidelines in accordance with OSHA and other applicable safety standards.
- Heater Cartridge Tips are hot when the handpiece is powered on and for a period of time after power off. DO NOT touch the cartridge. Severe burns may result.
- 4. PACE Tip & Tool Stands and handpiece cubbies are designed specifically for use with the associated handpiece and houses it in a manner that protects the user from accidental burns. Always store the handpiece in its holder. Be sure to place the handpiece in its holder after use and allow for cooling before storing.
- Always use PACE systems in a well ventilated area. A fume extraction system such as those available from PACE are highly recommended to help protect personnel from solder flux fumes
- Exercise proper precautions when using chemicals (e.g., solder paste). Refer to the Material Safety Data Sheet (MSDS) supplied with each chemical and adhere to all safety precautions recommended by the manufacturer.

Handpiece Connection

Connect the handpiece connector plug into the Power Receptacle in the following manner.

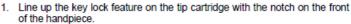


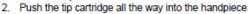
Insert connector into power receptacle.

Turn the connector housing clockwise to lock in place.

Tip Cartridge Installation

Both TD-100 and MT-100 tip cartridges are fitted with a key lock device. This feature ensures that tip cartridges are held firmly in position and will maintain their orientation. MT-100 tip cartridges CANNOT be fully inserted into the TD-100 and TD-100 tip cartridges CANNOT be fully inserted into the MT-100. To install a tip cartridge, please follow the procedure below.







To remove a tip cartridge, use the included hot grip removal pad to grasp the tip cartridge and pull the tip cartridge out of the handpiece. Be careful when completing this procedure as the tip cartridge may be hot and direct contact can cause injury.



Tips





cartridges can be changed at any time and without turning off the power to the unit.

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Accessory and Replacement Parts

| | Description | PACE Part Number |
|--|---|--|
| | Tip Case – Holds 10 Tips (Tips not included) | 1310-0034-P1 |
| | Tip Stand – Allows for an additional 10 tips to be stored on the tool stand. (Shown with TD-100 Tool Stand and tips not included) | 1321-0639-P1 |
| | TD-100 Handpiece (Tip cartridge not included) Heatwise/Tempwise systems only (Red Connector) | 6010-0132-P1 6993-0243-P1 Handpiece with tip and tool stand |
| | Replacement TD-100 cord assembly Heatwise/Tempwise systems only (Red Connector) | 3008-0131-P1 |
| | TD-100 Handpiece (Tip cartridge not included) Intelliheat systems only. (Blue connector) | 6010-0147-P1 (6993-0272-P1) Handpiece with tip and tool stand |
| | Replacement TD-100 cord assembly Intelliheat systems only (Blue connector) | 3008-0296-P1 |
| | Replacement O-rings for TD-100. Package of 5. | 1213-0090-P5 |
| | TD-100 Tool Stand (TD-100 Handpiece and tips not included) | 6019-0079-P1 |
| MINI THE REAL PROPERTY OF THE PERTY OF THE P | MT-100 Handpiece (Tips not included) Heatwise/Tempwise systems only (Red Connector) | 6010-0140-P1 (handpiece only) 6993-0243-P1 Kit with Tip and tool stand |
| The state of the s | MT-100 Handpiece (Tips not included) Intelliheat systems only | 6010-0148-P1 (handpiece only) 6993-0264-P1 |
| di sa | (Blue Connector) | Kit with Tip and tool stand |
| | MT-100 Tool Stand | 6019-0080-P1 |
| | Hot Grip Removal Pad | 1100-0307-P1 |

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Available Tips

A wide variety of tip cartridges are available for use with the TD-100 and the MT-100 Handpieces. Please refer to the table below for available tip cartridge styles.

| | PACE P/N | <u>Description</u> |
|--------------|--------------|--|
| □==+ | 1124-0001-P1 | 1/32" Conical Sharp Extended |
| + | 1124-0002-P1 | 1/64" Conical Sharp |
| | 1124-0003-P1 | 1/64" Conical Sharp Bent 30 Degrees |
| + | 1124-0004-P1 | 1/64" Conical Sharp Extended |
| €>+ | 1124-0005-P1 | 1/32" Conical |
| ₽ | 1124-0006-P1 | 3/128" Conical |
| + + | 1124-0007-P1 | 1/16" 90 Degree Chisel |
| >‡ | 1124-0008-P1 | 3/64" 30 Degree Chisel |
| € † | 1124-0009-P1 | 3/64" 30 Degree Bevel |
| | 1124-0010-P1 | 13/64" Chisel |
| | 1124-0011-P1 | 1/64" 60 Degree Bevel |
| + | 1124-0012-P1 | 1/32" 30 Degree Chisel |
| | 1124-0013-P1 | 3/32" 30 Degree Chisel |
| ⋾ | 1124-0014-P1 | 5/64" 60 Degree Bevel |
| | 1124-0015-P1 | 1/64" Conical, Sharp, Bent 30 Degrees, Extended |
| + | 1124-0016-P1 | 3/64" Chisel Bent 30 Degrees |
| + | 1124-0017-P1 | 1/16" 60 Degree Chisel |
| + | 1124-0018-P1 | 1/32" Conical Sharp Extended |
| | 1124-0019-P1 | 1/16" 30 Degree Chisel |
| | 1124-0020-P1 | 1/8" 90 Degree Chisel |

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| | 1124-0021-P1 | 3/128" Conical Sharp Bent 30 Degrees |
|---|--------------|--|
| □□□ ≑ | 1124-0022-P1 | 1/16" Conical Sharp |
| | 1124-0023-P1 | 1/8" 90 Degree Chisel Extended |
| = | 1124-0024-P1 | 1/16" 30 Degree Bevel |
| | 1124-0025-P1 | 1/16" Conical Sharp Extended |
| | 1124-0026-P1 | 1/16" Chisel Bent 30 Degrees |
| <u> </u> | 1124-0027-P1 | 3/128" Conical Sharp, Extended |
| | 1124-0028-P1 | 3/64" Chisel, Bent 30 Degrees, Extended |
| | 1124-0029-P1 | 1/32" 30 Degree Bevel |
| □ □□+ | 1124-0030-P1 | 1/32" Conical Sharp |
| - | 1124-0031-P1 | Heat Staking |
| £ | 1124-0032-P1 | MiniWave |
| | 1124-0033-P1 | Angled MiniWave, 3.3 mm |
| | 1124-0034-P1 | Single Sided Chisel |
| | 1124-0035-P1 | Angled MiniWave, 2.4mm |
| | 1124-0036-P1 | 1/128" Conical |
| ZZZ: | 1124-0037-P1 | 1/4 Flat Blade |
| | 1124-0038-P1 | Single Sided Chisel, Fine Pitch |
| | 1124-0039-P1 | Angled MiniWave, Fine Pitch |
| De la companya de la | 1124-0040-P1 | MicroFine Single Sided Chisel, 0.9mm (.035") |

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| | 1124-0041-P1 | MicroFine Single Sided Chisel, 1.1mm (.045") |
|---------|--------------|--|
| | 1124-0042-P1 | MicroFine Conical, 0.25mm (.01") |
| 37 | 1124-0043-P1 | MicroFine Bent Conical, 0.75mm (.03") |
| | 1124-0044-P1 | MicroFine Bent Conical, 0.5mm (.02") |
| £18 000 | 1124-0045-P1 | Angled Micro-Wave Tip |
| .045 | 1124-0046-P1 | Micro-Wave Tip |

Surface Mount Removal Tips for TD-100 Soldering Iron

| | Component Type | Dimension A | Dimension B | Part Number |
|----------|-------------------|----------------|----------------|----------------|
| - A | Chip 402 Angle | 2.2mm (.085°) | | 1124-0518-P1 |
| | Chip 1808 | 5mm (.195") | | 1124-0520-P1 |
| | Chip 402 | 1mm (.04") | | 1124-0521-P1 |
| | SOT 23 | 1.8mm (.07*) | | 1124-0522-P1 |
| | SOT 89 | 2.8mm (.11*) | | 1124-0523-P1 |
| | Chip 1206 | 3.6mm (.142*) | | 1124-0524-P1 |
| | Chip 0805 | 2.4mm (.095*) | | 1124-0525-P1 |
| | SOIC 14/16 | 5.2mm (.205*) | 10.5mm (.415") | 1124-0504-P1 |
| B | SOIC 20 | 9.6mm (.377*) | 13.6mm (.535*) | 1124-0505-P1 |
| , | SOP 28 | 10.8mm (.426") | 18.6mm (.734*) | 1124-0506-P1 |
| 1 | SOP 40 | 11.9mm (.467") | 25.7mm (1.01") | 1124-0507-P1 |
| | SOP 44 | 13.1mm (.516") | 28.4mm (1.12*) | 1124-0508-P1 |
| A | TSOP 56 | 18.8mm (.739") | 14.1mm (.557*) | 1124-0509-P1 |
| 0 | TSOP 28 | 12mm (.471") | 8.5mm (.333*) | 1124-0510-P1 |
| 1 | SOIC 8 | 5.1mm (.202*) | 4.65mm (.183*) | 1124-0519-P1 |
| 159 | TSOP 40 | 18.8mm (.74") | 10.4mm (.410") | 1124-0526-P1 |

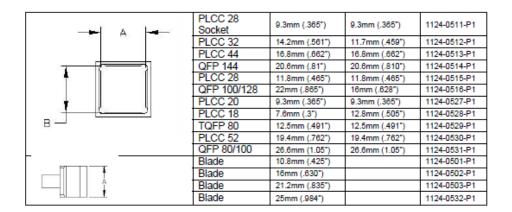
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Surface Mount Removal Tips for MT-100 MiniTweez

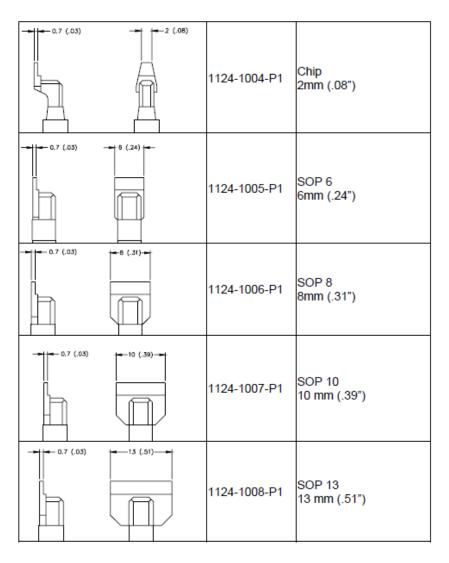
| | | PACE P/N | <u>Description</u> |
|------------|-----------|--------------|-----------------------|
| 0.2 (.008) | A | 1124-1001-P1 | Chip 0.2mm (.008") |
| 0.7 (.03) | 0.5 (.02) | 1124-1002-P1 | Chip 0.5mm (.02") |
| 0.7 (.03) | 1 (.04) | 1124-1003-P1 | Chip 1mm (.04") |

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Corrective Maintenance

The TD 100 handpiece features a replaceable O-ring that protects the contact area from flux fume and other contamination. The O-ring may need to be replaced over time. To replace the O-ring follow the procedure below:

- 1. Disconnect the TD 100 from the power source
- 2. Remove the tip cartridge
- 3. Unscrew the cap from the back of the TD 100
- 4. Slide the connector assembly out of the handle

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- Remove and replace the old O-ring from the connector assembly (Old "O-ring" may remain in handle)
- Reinstall the connector assembly. Be sure to line up the keyways on the handle and connector assembly. Do not force the connector assembly into the handle.
- Reinstall the cap and make sure it is fully seated against the handle
- Install a tip cartridge

The O-rings on the MT-100 do not need to be replaced.

Handpiece Troubleshooting

Most malfunctions are simple and easy to correct.

| Symptom | Probable Cause | Solution |
|----------------|-----------------------|--|
| Handpiece will | Defective Heater | Change Tip Cartridge |
| not heat | Power Source | Contact PACE |
| | Malfunction | |
| | O-Ring has come | Check inside handpiece for Oring. Make sure that |
| | out and blocked tip | it has not dislodged or come out of the slot. |
| | from going all of the | |
| | way in | |

Service

Please contact PACE or your local distributor for service and repair. PACE WORLDWIDE LIMITED WARRANTY STATEMENT

AIGOITTSTATEMENT

Seller warrants to the first user that products manufactured by it and supplied hereunder are free of defects in materials and workmanship for a period of three (3) years from the date of receipt by such user. This Warranty as applied to blowers, motor pumps, x-ray tubes, lenses, optical/lighting probes and cameras is limited to a period of one (1) year. Monitors, computers and other brand equipment supplied but not manufactured by PACE are covered under their respective manufacturer's warranty in lieu of this Warranty

Limited Warranty

This warranty does not cover wear and tear under normal use, repair or replacement required as a result of misuse, improper application, mishandling or improper storage. Consumable items such as tips, heaters, filters, etc. which wear out under normal use are excluded. Failure to perform recommended routine maintenance, alterations or repairs made other than in accordance with Seller's directions, or removal or alteration of identification markings in any way will void this warranty. This warranty is available only to the first user, but the exclusions and limitations herein apply to all persons and entities. SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Seller will, at its option, repair or replace any defective products at its facility or other location approved by it at no charge to user, or provide parts without charge for installation by the user in the field at user's expense and risk. User will be responsible for all costs of shipping equipment to Seller or other location for warranty service.

EXCEPT FOR THE REMEDY ABOVE DESCRIBED, UNLESS OTHERWISE REQUIRED BY APPLICABLE LAW, SELLER WILL HAVE NO OTHER OBLIGATION WITH REGARD TO ANY BREACH OF WARRANTY OR OTHER CLAIM WITH RESPECT TO THE PRODUCTS, OR LIABILITY FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL LOSS OR DAMAGE CAUSED BY OR OCCURRING IN CONNECTION WITH ANY OF THE PRODUCTS.

Warranty service may be obtained by contacting the appropriate PACE Company or local Authorized PACE distributor as set forth below to determine if return of any item is required, or if repairs can be made by the user in the field. Any warranty or other claim with respect to the products must be made with sufficient evidence of purchase and date of receipt, otherwise user's rights under this warranty shall be deemed waived.PACE Incorporated retains the right to make changes to specifications contained herein at any time, without notice. Contact your local authorized PACE Distributor or PACE Incorporated to obtain the latest specifications.

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www.paceworldwide.com

PACE Incorporated 255 Air Tool Drive Southern Pines, North Carolina, 28387 Tel: (877) 882-PACE

Tel: (910) 695-7223 Fax: (910) 695-1594 Pace Europe 11 Holdom Avenue Bletchley, Milton Keynes, United Kingdom, MK1 1QU Tel: 011 44 1908 277666

Tel: 011 44 1908 277666 Fax: 011 44 1908 277777

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