

MBT/PRC

CONDUCTIVE

rework and repair

customize your workbench to meet any production need



PAGE[®]

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Part #5400-0104 Rev. 7/00

A Worldwide Commitment

With offices worldwide, PACE, Inc. is a recognized world leader in the development of solutions for the assembly and repair of highly advanced electronics. Our expertise extends back to the dawn of the modern electronics industry. In 1958, PACE introduced training programs for the repair of the printed wire assemblies, and soon after, revolutionized the industry by creating the first self-contained vacuum desoldering system.

Today, PACE continues to provide innovative solutions, products and training for the rework, repair and testing of printed circuit assemblies. Our unique capabilities and evolving vision have provided universal solutions to thru-hole and surface mount assembly and rework problems for the most advanced electronics.

Additionally, PACE manufactures Fume Extraction systems to reduce exposure to harmful particulates and gases created from hand soldering operations. PACE Fume Extraction systems effectively remove these contaminants from the worker's breathing zone thereby reducing or eliminating health risks.

Our strong commitment and history of achievement have resulted in an unparalleled range of Assembly, Repair and Fume Extraction solutions to meet your needs whether working to ISO-9000, industrial, military or your own internal specifications. Whatever the challenge, PACE stands ready to set a new standard for you.

PACE[®]

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For nearly forty years PACE has been at the forefront of rework technology.

PACE offers a broad range of rework and repair products to meet all your repair needs. Whether you are replacing a surface mount component, repairing a multi-layer printed circuit board, or making a plated thru-hole repair, we have a system that allows you to make repairs with confidence. From the cost-effective MBT 201 to the fully self-contained benchtop repair factory these systems offer unmatched versatility. Our digital systems deliver advanced microprocessor performance that provides the operator with accurate temperature selection, automatic or manual tip temperature setback, and auto tip offset compensation. Coupled with our line of SensaTemp handpieces, these systems will allow you to safely and rapidly install and remove virtually any 2 or 4 sided SMT component. Our Quiet Flo pumps provide controlled air pressure for the ThermoJet handpiece and quick disconnect vacuum for use with the Sodr-X-Tractor, ThermoPik and Dual ThermoPik. Add these features up and you'll see why PACE has set the standard for current and future rework and repair systems.

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MBT 201-SD

Conductive Rework/Repair



MBT 201/E-SD – Analog High Performance SensaTemp Soldering/Desoldering Station. Self-contained, high capacity, low temperature SMT/Thru-Hole soldering with dual channel capability. Full SMT upgradeability by adding our other SensaTemp handpieces (TJ-70 ThermoJet, TP-65 ThermoPik or DTP-80 Dual ThermoPik).

MBT 201-SD

MBT 201-SD P/N 8007-0200
 MBT 201E-SD P/N 8007-0201

Features

- AUTO Snap-VAC improves thru-hole desoldering performance, increases tip life—a PACE EXCLUSIVE feature
- “QUIET FLO” pump for vacuum and pressure
- Dual channel capability
- Controllable Air Pressure Port

Power Source Specs

Unit:	MBT 201-SD	MBT 201E-SD
Power	115VAC, 60Hz,	230VAC, 50/60Hz,
Requirements:	184 Watts maximum	207 Watts maximum
Dimensions:	135mm H x 165mm W x 203mm D (5.3" H x 6.5" W x 8.0" D)	135mm H x 165mm W x 203mm D (5.3" H x 6.5" W x 8.0" D)
Weight:	Approx. 4 Kg (8 lbs.)	Approx. 4 Kg (8 lbs.)



Handpiece Specs

Tip to ground resistance: 2 ohms or less
 Temperature stability: $\pm 1.1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$) at idle from set tip temp.
 Tip Temperature Range: 232° to 482°C (450° to 900°F) nominal

Vacuum and Air

Vacuum Rise Time: 200ms average as measured by PACE Process Monitor
 Vacuum: 51 cm Hg. (20 in. Hg.) nominal
 Pressure: .48 Bar (7 p.s.i.) nominal at maximum setting
 Air Flow: 9 SLPM (0.32 SCFM) maximum

Handpieces for MBT 201-SD, 250-SD

HANDPIECE	DESCRIPTION
	SX-80 Sodr-X-Tractor
	PS-80 Soldering Iron



Pik-Tips with SX-80 to remove small SMDs

For standard items sold with systems (handpieces, tips, etc.) see pages 15-16.

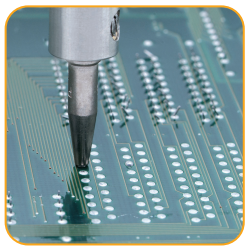
ITEM DESCRIPTION	PART NUMBER
SX-80 Heater Assembly	6010-0107
PS-80 Heater Assembly	6010-0095
Sponge, Tip & Tool Stands	4021-0008
FLUX/SODR TRAP	1309-0054-P10/P100
Replacement VisiFilter Element	1309-0027-P10/P25/P50

SERIES SYSTEMS

MBT 250/E-SD – Digital High Performance SensaTemp Soldering/Desoldering Station. Self-contained, three channel capability offers high capacity, low temperature SMT/Thru-Hole soldering and desoldering. Digital readout displays the current channel's temperature information, error codes and programming status.



PART NUMBER
6010-0106-P1
6010-0096-P1



Endura Tip with SX-80 for heavy-duty thru-hole desoldering

MBT 250-SD

MBT 250-SD P/N 8007-0203
 MBT 250E-SD P/N 8007-0204

Features

- AUTO Snap-VAC improves thru-hole desoldering performance, increases tip life—a PACE EXCLUSIVE feature
- “QUIET FLO” pump for vacuum and pressure
- Operates any three SensaTemp handpieces simultaneously
- Automatic or manual tip temperature setback and power down, constant memory
- Automatic tip offset compensation system

Power Source Specs

Unit:	MBT 250-SD	MBT 250E-SD
Power:	115VAC, 60Hz,	230VAC, 50/60Hz,
Requirements:	184 Watts maximum	207 Watts maximum
Dimensions:	135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D)	135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D)
Weight:	Approx. 5 Kg (10 lbs.)	Approx. 5 Kg (10 lbs.)

Handpiece Specs

Tip to ground resistance: 2 ohms or less
 Temperature stability: ± 1.1°C (± 2°F) at idle from set tip temp.
 Tip Temperature Range: 38° to 482°C (100° to 900°F) nominal

Vacuum and Air

Vacuum Rise Time: 200ms average as measured by PACE Process Monitor
 Vacuum: 51 cm Hg. (20 in. Hg.) nominal
 Pressure: .48 Bar (7 p.s.i.) nominal at maximum setting
 Air Flow: 9 SLPM (0.32 SCFM) maximum

CONSUMABLES

ITEM DESCRIPTION	PART NUMBER
Fuse, 1.25 Amp S.B., 120VAC Systems	1159-0217
Fuse, 0.63 Amp S.B., 230VAC Systems (MBT 201)	1159-0214
Fuse, 2.0 Amp S.B., 120VAC Systems (MBT 250)	1159-0247
TT-65 Heater Assembly, w/o Sensor	6010-0083
TT-65 Heater Assembly, with Sensor	6010-0082
TP-65 Heater Assembly	6010-0081

For standard items sold with systems (handpieces, tips, etc.) see pages 15-16.

MBT 250-SDPT

Conductive Rework/Repair



MBT 250/E-SDPT – Digital High Performance SensaTemp Soldering/Desoldering Station. Self-contained, three channel capability offers high capacity, low temperature SMT/Thru-Hole soldering and desoldering. Digital readout displays the current channel's temperature information, error codes and programming status.

MBT 250-SDPT

MBT 250-SDPT P/N 8007-0206

MBT 250E-SDPT P/N 8007-0207

Features

- AUTO Snap-VAC improves thru-hole desoldering performance, and increases tip life—a PACE EXCLUSIVE feature
- “QUIET FLO” pump for vacuum and pressure
- Operates any three SensaTemp handpieces simultaneously
- Automatic or manual tip temperature setback and power down, constant memory
- Automatic tip offset compensation system

Power Source Specs

Unit:	MBT 250-SDPT	MBT 250E-SDPT
Power	115VAC, 60Hz,	230VAC, 50/60Hz,
Requirements:	184 Watts maximum	207 Watts maximum
Dimensions:	135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D)	135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D)
Weight:	Approx. 5 Kg (10 lbs.)	Approx. 5 Kg (10 lbs.)





Handpiece Specs

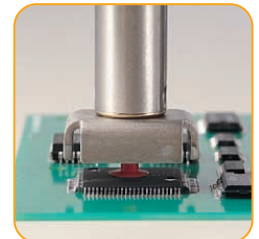
- Tip to ground resistance: 2 ohms or less
- Temperature stability: $\pm 1.1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$) at idle from set tip temp.
- Tip Temperature Range: 38° to 482°C (100° to 900°F) nominal

Vacuum and Air

- Vacuum Rise Time: 200ms average as measured by PACE Process Monitor
- Vacuum: 51 cm Hg. (20 in. Hg.) nominal
- Pressure: .48 Bar (7 p.s.i.) nominal at maximum setting
- Air Flow: 9 SLPM (0.32 SCFM) maximum

Handpieces for MBT 250

HANDPIECE	DESCRIPTION	PART NUMBER
	SX-80 Sodr-X-Tractor	6010-0106-P1
	PS-80 Soldering Iron	6010-0096-P1
	TT-65 ThermoTweez	7025-0001-P1
	TP-65 ThermoPik	7024-0001-P1



4-sided tip with TP-65 to remove SMDs

For standard items sold with systems (handpieces, tips, etc.) see pages 15-16.

ITEM DESCRIPTION	PART NUMBER
Fuse, 1.25 Amp S.B., 120VAC Systems	1159-0217
Fuse, 0.63 Amp S.B., 230VAC Systems (MBT 201)	1159-0214
Fuse, 2.0 Amp S.B., 120VAC Systems (MBT 250)	1159-0247
TT-65 Heater Assembly, w/o Sensor	6010-0083
TT-65 Heater Assembly, with Sensor	6010-0082
TP-65 Heater Assembly	6010-0081

SERIES SYSTEMS

PRC 2000/E – The Benchtop Factory
The PRC 2000's Thermal Management Center powers and controls three SensaTemp handpieces simultaneously for safe, rapid installation and removal of virtually all surface mount and thru-hole components.



Handpieces for PRC 2000

HANDPIECE	DESCRIPTION	PART NUMBER
	SX-80 Sodr-X-Tractor	6010-0106-P1
	PS-80 Soldering Iron	6010-0096-P1
	TT-65 ThermoTweez	7025-0001-P1
	TP-65 ThermoPik	7024-0001-P1
	TJ-70 ThermoJet	7023-0002-P1
	Pulse Heat (PRC 2000 only)	
	LF-15 LapFlo Handpiece	7013-0004-02-P1
	TW-15 ResisTweez Handpiece	7009-0005-P1
	Other (PRC 2000 only)	
	MC-65 MicroChine	7026-0001-P1
	PV-65 Pik Vac Wand	7027-0001-P1

PRC 2000

- PRC 2000 P/N 8007-0132
- PRC 2000-TH (Thru-Hole Version) P/N 8007-0138
- PRC 2000E P/N 8007-0133
- PRC 2000E-TH (Thru-Hole Version) P/N 8007-0139

Features

- Universal SMT component installation and removal
- Self-Contained solder cream dispensing
- Multilayer repair capability
- Continuous automatic calibration
- Automatic tip offset compensation system
- Pik-Vac Component Handling Wand

Power Source Specs

Unit:	PRC 2000	PRC 2000E
Power	115VAC, 60Hz,	230VAC, 50/60Hz,
Requirements:	400 Watts maximum	365 Watts maximum
Dimensions:	175mm H x 350mm W x 230mm D (6.9" H x 13.75" W x 9.25" D)	175mm H x 350mm W x 230mm D (6.9" H x 13.75" W x 9.25" D)
Weight:	Approx. 13 Kg (30 lbs.)	Approx. 13 Kg (30 lbs.)

Handpiece Specs

- Tip to ground resistance: 2 ohms or less
- Temperature stability: $\pm 1.1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$) at idle from set tip temp.
- Tip Temperature Range: 38° to 482°C (100° to 900°F) nominal

Vacuum and Air

- Vacuum Rise Time: 200ms average as measured by PACE Process Monitor
- Vacuum: 51 cm Hg. (20 in. Hg.) nominal
- Pressure: .48 Bar (7 p.s.i.) nominal at maximum setting
- Air Flow: 13 SLPM (0.46 SCFM) maximum

CONSUMABLES

ITEM DESCRIPTION	PART NUMBER	ITEM DESCRIPTION	PART NUMBER
SX-80 Heater Assembly	6010-0107	Sponge, Tip & Tool Stands	4021-0008
PS-80 Heater Assembly	6010-0095	FLUX/SODR TRAP	1309-0054-P10/P100
TT-65 Heater Assembly, w/o Sensor	6010-0083	Replacement VisiFilter Element	1309-0027-P10/P25/P50
TT-65 Heater Assembly, with Sensor	6010-0082	Fuse, 2.0 Amp S.B., 120VAC Systems	1159-0247
TP-65 Heater Assembly	6010-0081	Fuse, 1.25 Amp S.B., 230VAC Systems	1159-0217
TJ-70 Heater Assembly	6010-0084		

For standard items sold with systems (handpieces, tips, etc.) see pages 15-16.

Handpieces

SensaTemp Handpieces and Handpiece Accessories



PS-80

HANDPIECE	DESCRIPTION	PART NUMBER
	PS-80 Soldering Iron	6010-0096-P1
	PS-80 heater assembly	6010-0095-P1
	Retaining nut	1410-0104-P10
	PS-80 Tip & Tool Stand	6019-0050-P1
	Sponge, Tip & Tool Stand	4021-0008-P3
	PS-80 solder catcher	1312-0008-P1
	PS-80 kit (Consists of PS-80 handpiece and PS-80 Tip & Tool Stand)	6993-0199-P1

Plug-In Heater

- High reliability, replace the heater in seconds, no tools required for changeout

Innovative Handle Design

- Cooler handle, balanced, comfortable feel, lightweight, integrated power cord strain relief, ESD safe

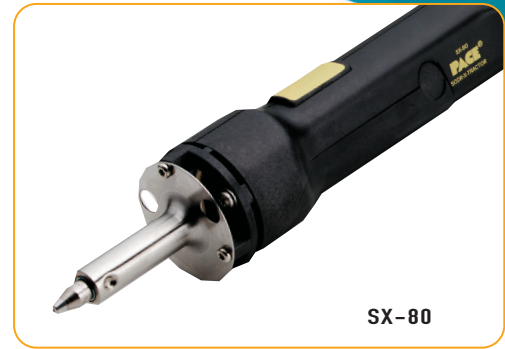
Fully Integrated Heater to Handle Coupler

- Assures structurally stable heater, protects electrical wiring to ensure reliability, stress & pressure of use is transferred directly to handle, improving durability

Securely Anchored Platinum Temperature Sensor

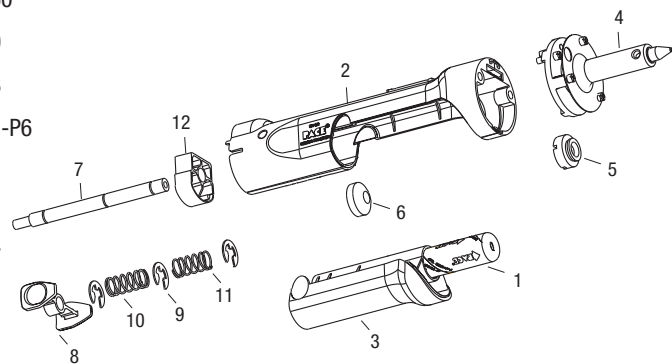
- Reliable, accurate, stable

SensaTemp Handpieces and Handpiece Accessories



SX-80

DESCRIPTION	PART NUMBER	HANDPIECE
SX-80 Handpiece	6010-0106-P1	
SX-80 Kit (Includes Handpiece, Tip & Tool Stand and Tip Tool)	6993-0213-P1	
SX-80 Tip and Tool Stand	6019-0060-P1	
FLUX/SODR TRAP (1)	1309-0054-P10 1309-0054-P100	
Handle Assembly (2)	6010-0115-P1	
Door Assembly (3)	1119-0141	
Heater Assembly (4)	6010-0107-P1	
Front Seal (5)	1213-0087	
Rear Seal (6)	1213-0086	
Plunger Shaft (7)	1261-0154	
Plunger Lock (8)	1500-0063	
"C" Clips (3 pieces) (9)	1348-0387-P3	
Spring "Long Side" (10)	1221-0136	
Spring "Short Side" (11)	1221-0137	
Door Lock (12)	1119-0142	
VisiFilter, Fixed	1309-0020	
VisiFilter, Replacement	1309-0028	
Replaceable VisiFilter Elements Package of 10	1309-0027-P10	
Package of 25	1309-0027-P25	
Package of 50	1309-0027-P50	
Tubing, 36" Length	1342-0001-10	
Tubing, 54" Length Black	1342-0015-08	
Hose Clamps	1321-0085-01-P6	
Hose Fitting, Female (Quick Disconnect)	1259-0086	
Hose Fitting, Male (Quick Disconnect)	1259-0087	
Tubing, PVC, 1" Length	1325-0003-07	



PRC 2000 Handpieces

Pulse Heat Handpieces



SMR Handpieces (for PRC 2000 Series Systems only)

DESCRIPTION	PART NUMBER
LF-15 LapFlo Handpiece (Static Dissipative)	7013-0004-02-P1
LF-1 Single Point SMD Soldering Tip (LapFlo)	6000-0008
ThermoPart Coating Removal Tip	6000-0009
LF-2 Multi-point SMD Soldering Tip 5.49mm (0.270")	1121-0298-P1
LF-3 Multi-point SMD Soldering Tip 13.72mm (0.540")	1121-0299-P1
LF-4 Multi-point SMD Soldering Tip 11.18mm (0.440")	1121-0300-P1
Universal Power Cord	7000-0023
CT-15 ConducTweez Handpiece (Static Dissipative)	7020-0001-P1
CT-1 Chip Component Tip	1121-0286-P1
Guide Block Kit	6993-0105-P1
CT-2 14, 16 lead SOIC Tip	1121-0271-P1
CT-3 20 lead SOIC Tip	1121-0270-P1
CT-4 24, 28 lead SOIC Tip	1121-0293-P1
CT-5 SOT Tip	1121-0269-P1
CT-6 Rounded End Auxiliary Heating Tip	1121-0004-P2
Tip Mounting Screw	1405-0182-P5
TW-15 ResisTweez Handpiece (Static Dissipative)	7009-0005-P1
RT-1 18 Pin PLCC ThermoBand Tip	1121-0294-P1
RT-2 20 Pin PLCC ThermoBand Tip	1121-0295-P1
RT-3 28 Pin PLCC ThermoBand Tip	1121-0296-P1
32 Pin PLCC ThermoBand Tip	1121-0348-P1
RT-4 44 Pin PLCC ThermoBand Tip	1121-0297-P1
RT-5 Tapered Flat End Resistance Tip	1121-0301-P1
RT-6 Round End Resistance Tip	1121-0009-P2
RT-7 Flat End Resistance Tips	1121-0006-P2
TS-15 StripTweez Handpiece (Static Dissipative)	7012-0002-P1
Thermal Stripper Tips	1121-0003-P2

MicroChine Miniature Machining Handpiece (for PRC 2000 Series Systems only)

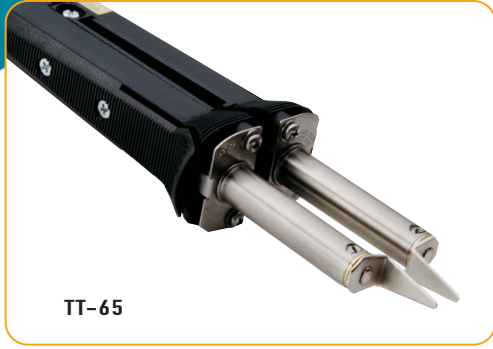


MicroChine

DESCRIPTION	PART NUMBER
MC-65 MicroChine Handpiece (operates from PRC 2000 and MicroChine 100 Systems only)	7026-0001-P1
Optional Items and Spare Parts	
Deluxe Tool Kit (optional)	6005-0013
Foot Pedal Kit (optional)	6993-0165
Probe Brake Patch Cord (PRC 2000 Systems Only)	1332-0159
Probe Brake Patch Cord (MicroChine 100 Systems Only)	1332-0163
Collet Nut	4005-0012
Collet 1.63mm (0.064" dia.)	4005-0013
Collet 2.39mm (0.094" dia.) - Standard Collet	4005-0014
Collet 3.25mm (0.128" dia.)	4005-0015
Deluxe Tool Kit, Spare Parts	
Mandrel Threaded (1)	1115-0002-P10
Mandrel with Screw Top (2)	1115-0001-P10
Brush, 14.4mm (0.563") Unmounted (3)	1127-0005-P10
Brush, 19.4mm (0.75") Unmounted (4)	1127-0010-P10
Drill, 80mm (0.031") (5)	1112-0031-P10
Drill, 1.2mm (0.047") (5)	1112-0032-P10
Drill, 1.6mm (0.063") (5)	1112-0033-P10
Drill, 2.0mm (0.078") (5)	1112-0034-P10
Drill, 2.4mm (0.094") (5)	1112-0035-P10
Ball Mill, 0.4mm (0.016") (6)	1112-0001-P10
Ball Mill, 0.991mm (0.039") (6)	1112-0010-P10
Ball Mill, 0.8mm (0.031") (6)	1112-0002-P10
Ball Mill, 1.2mm (0.047") (6)	1112-0003-P10
Ball Mill, 1.6mm (0.063") (6)	1112-0004-P10
Ball Mill, 2.4mm (0.094") (6)	1112-0005-P10
Ball Mill, 3.2mm (0.125") (6)	1112-0006-P10
Ball Mill, 4.0mm (0.156") (6)	1112-0007-P10
Ball Mill, 6.4mm (0.25") (6)	1112-0009-P10
Saw, 2.4mm (0.094"), Mounted (7)	1112-0061-P10
Abrasive Wheel 16mm (0.625") Green (8)	1129-0003-P10
Abrasive Wheel 16mm (0.625") Red (8)	1129-0004-P10
Abrasive Wheel 22.4mm (0.875") Red (9)	1129-0001-P10
Abrasive Wheel 22.4mm (0.875") Green (9)	1129-0002-P10
Bullet Abrasive, Red (10)	1129-0007-P10
Bullet Abrasive, Green (10)	1129-0008-P10
Circular Saw, Unmounted (not shown)	1112-0062-P10

Handpieces

SensaTemp Handpieces and Handpiece Accessories

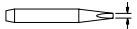
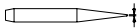
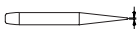
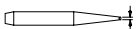

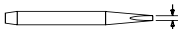
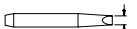

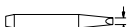



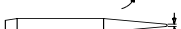

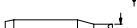


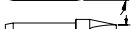







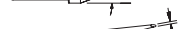




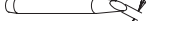
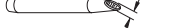
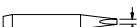
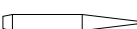
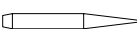




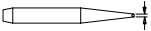
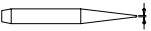
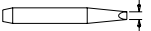
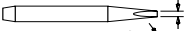




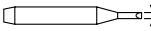
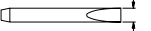


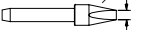
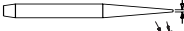



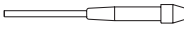
















HANDPIECE		DESCRIPTION	PART
	TT-65 ThermoTweez handpiece	7025-0001-P1	
	Heater assembly, with sensor	6010-0082-P1	
	Heater assembly, w/o sensor	6010-0083-P1	
	Cushion grip kit	6993-0184	
	Pads for cushion grip	1317-0029-P2	
	Plastic grips	1119-0123-P1	
	Replacement hinge kit	6993-0156	
	TT-65 Tip & Tool stand	6019-0056-P1	
Sponge, Tip & Tool stand	4021-0008-P3		
	DTP-80 Dual ThermoPik handpiece	7029-0001-P1	
	Heater assembly, with sensor	6010-0082-P1	
	Heater assembly, w/o sensor	6010-0083-P1	
	Cushion grip kit	6993-0184	
	Pads for cushion grip	1317-0029-P2	
	Replacement hinge kit	6993-0156	
	DTP-80 Tip & Tool stand	6019-0057-P1	
Sponge, Tip & Tool stand	4021-0008-P3		
	TP-65 ThermoPik handpiece	7024-0001-P1	
	Heater assembly	6010-0081-P1	
	Handle kit	6993-0140	
	Hardware kit	6993-0189	
	TP-65 Tip and Tool Stand	6019-0055-P1	
	Sponge, Tip and Tool Stand	4021-0008-P3	
	TJ-70 ThermoJet handpiece	7023-0002-P1	
	Heater assembly	6010-0084-P1	
	Handle kit	6993-0140	
	Hardware kit	6993-0189	
	TJ-70 Tip & Tool Stand	6019-0055-P1	
	Sponge, Tip & Tool Stand	4021-0008-P3	

The following is a representation of the most popular tips.

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or visit our website at www.paceworldwide.com

TIP	DESCRIPTION	SIZE	PART NUMBER
Tips for PS-80 Soldering Iron			
	1/16" Chisel (high capacity)	1.60mm (0.063")	1121-0414-P5
	1/64" Conical	0.40mm (0.016")	1121-0357-P5
	1/128" Conical	0.20mm (0.008")	1121-0711-P5
	1/32" Conical	0.80mm (0.031")	1121-0336-P5
	1/16" Chisel	1.60mm (0.063")	1121-0335-P5
	1/16" Chisel Long Reach	1.60mm (0.063")	1121-0499-P5
	1/8" Chisel	3.20mm (0.125")	1121-0337-P5
	1/32" Chisel	0.80mm (0.031")	1121-0359-P5
	3/32" Chisel	2.40mm (0.094")	1121-0360-P5
	1/16" Chisel, Extended Reach	1.60mm (0.063")	1121-0533-P5
	1/64" Conical, Extended Reach	0.40mm (0.016")	1121-0528-P5
	1/64" Bent Conical	0.40mm (0.016")	1121-0363-P5
	1/32" Conical, Extended Reach	0.80mm (0.031")	1121-0527-P5
	3/16" Chisel	4.80mm (0.188")	1121-0358-P5
	1/16" Chisel (MicroFine)	1.60mm (0.063")	1121-0349-P5
	1/16" Chisel, Thermo-Drive	1.60mm (0.063")	1121-0510-P5
	1/32" Bent Chisel	0.80mm (0.031")	1121-0361-P5
	1/8" Chisel, Thermo-Drive	3.20mm (0.125")	1121-0518-P5
	3/32" Chisel, Extended Reach	2.40mm (0.094")	1121-0529-P5
	1/64" Bent Conical	0.40mm (0.016")	1121-0535-P5
	1/16" Bent Chisel, Long Reach	1.60mm (0.063")	1121-0500-P5
	1/64" Conical, Thermo-Drive	0.40mm (0.016")	1121-0516-P5
	1/32" Conical, Thermo-Drive	0.80mm (0.031")	1121-0710-P5
	1/64" Bent Conical, Thermo-Drive	0.40mm (0.016")	1121-0526-P5
	3/64" Bent Chisel, Thermo-Drive	1.20mm (0.047")	1121-0525-P5
	Single-Sided Chisel, Fine Pitch	1.50mm (0.06")	1121-0563-P5
	Angled Mini-Wave,	3.30mm (0.13")	1121-0822-P5
	Angled Mini-Wave, Fine Pitch	1.80mm (0.07")	1121-0564-P5
	Angled Mini-Wave	2.40mm (0.09")	1121-0610-P5
	Single-Sided Chisel	3.30mm (0.13")	1121-0406-P5
	Mini-Wave	3.30mm (0.13")	1121-0490-P5
	Flat Blade	6.60mm (0.25")	1121-0402-P1
PS-80 Long Life Tips			
	1/16" Chisel High Capacity	1.60mm (0.063")	1121-0606-P5
	1/32" Conical	0.80mm (0.031")	1121-0639-P5
	1/64" Conical	0.40mm (0.016")	1121-0607-P5
	1/16" Chisel Long Reach	1.60mm (0.063")	1121-0640-P5
	1/8" Chisel	3.20mm (0.125")	1121-0641-P5

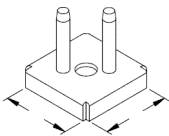
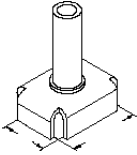





TIP	DESCRIPTION	SIZE	PART NUMBER
PS 80-Long Life Tips (continued)			
	1/16" Chisel	1.60mm (0.063")	1121-0642-P5
	1/32" Chisel	0.80mm (0.031")	1121-0643-P5
	3/32" Chisel	2.40mm (0.094")	1121-0644-P5
	1/16" Chisel, Extended Reach	1.60mm (0.063")	1121-0645-P5
	1/16" Bent Chisel, Long Reach	1.60mm (0.063")	1121-0646-P5
	Mini-Wave	3.30mm (0.13")	1121-0608-P5
	Single Sided Chisel	3.30mm (0.13")	1121-0647-P5
	Angled Mini Wave	2.40mm (0.09")	1121-0648-P5
	1/16" Chisel (MicroFine)	1.60mm (0.063")	1121-0649-P5
	3/16" Chisel	4.80mm (0.188")	1121-0650-P5
	1/32" Bent Chisel	0.80mm (0.031")	1121-0651-P5
	Flat Blade, 1/4"	6.60mm (0.25")	1121-0652-P1
	1/8" Chisel, Thermo-Drive	3.20mm (0.125")	1121-0653-P5
	1/32" Conical, Extended Reach	0.80mm (0.031")	1121-0654-P5
	1/64" Bent Conical	0.40mm (0.016")	1121-0655-P5
	Single-Sided Chisel, Fine Pitch	1.50mm (0.06")	1121-0656-P5
	Angled Mini Wave, Fine Pitch	1.80mm (0.07")	1121-0657-P5
Endura Desoldering Tips			
	Thermo-Drive	0.76mm (0.030") I.D. X 2.03mm (0.080") O.D.	1121-0625-P5
	Thermo-Drive	1.02mm (0.040") I.D. X 2.29mm (0.090") O.D.	1121-0624-P5
	Thermo-Drive	1.52mm (0.060") I.D. X 3.05mm (0.120") O.D.	1121-0626-P5
	Thermo-Drive	2.29mm (0.090") I.D. X 5.1mm (0.200") O.D.	1121-0627-P5
	Thermo-Drive, Flathead	(0.050") x (0.090") I.D. X (0.110") x (0.190") O.D.	1121-0821-P5
	Extended Reach Thermo-Drive	0.76mm (0.030") I.D. X 2.29mm (0.090") O.D.	1121-0628-P5
	Extended Reach Thermo-Drive	1.02mm (0.040") I.D. X 2.54mm (0.10") O.D.	1121-0629-P5
	Extended Reach Thermo-Drive	1.52mm (0.060") I.D. X 3.05mm (0.120") O.D.	1121-0630-P5
	Precision	0.50mm (0.020") I.D. X 1.79mm (0.070") O.D.	1121-0680-P5
	Precision	0.76mm (0.030") I.D. X 2.03mm (0.080") O.D.	1121-0678-P5
	Precision	1.02mm (0.040") I.D. X 2.29mm (0.090") O.D.	1121-0679-P5
	Precision	1.52mm (0.060") I.D. X 2.79mm (0.110") O.D.	1121-0690-P5
	Precision	2.29mm (0.090") I.D. X 3.55mm (0.140") O.D.	1121-0695-P5
	Flo-D-Sodr	1.52mm (0.060") I.D. X 4.78mm (0.188") O.D.	1121-0631-P5
	Flo-D-Sodr, Precision	0.50mm (0.020") I.D. X 1.78mm (0.070") O.D.	1121-0681-P5
	Flo-D-Sodr, Precision	0.76mm (0.030") I.D. X 2.03mm (0.080") O.D.	1121-0682-P5
	Flo-D-Sodr, Precision	1.02mm (0.040") I.D. X 2.29mm (0.090") O.D.	1121-0683-P5

The following is a representation of the most popular tips.

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TIP	DESCRIPTION	SIZE	PART NUMBER
	SX Pik Tips		
	TQFP 28	8.2mm (0.322") Square	1121-0571-P1
	TQFP 32	8.7mm (0.344") Square	1121-0572-P1
	TQFP 52	12mm (0.472") Square	1121-0573-P1
	TQFP 40	12mm (0.472") Square	1121-0574-P1
	TQFP 80	13.2mm (0.520") Square	1121-0575-P1
	TQFP 80/100	15.3mm (0.604") Square	1121-0576-P1
	PQFP 80/100	16.8mm (0.660") x 22.9mm (0.900")	1121-0603-P1
	TSOP 28	8.1mm (0.320") x 12.7mm (0.500")	1121-0567-P1
	TSOP 32	8.1mm (0.320") x 19.3mm (0.760")	1121-0566-P1
TSOP 56	14.2mm (0.560") x 19.3mm (0.760")	1121-0569-P1	
	Tips for TT-65 ThermoTweez Handpiece		
	PLCC-20	6.86mm x 6.86mm (0.27" x 0.27")	1121-0316-P1
	PLCC-28	9.4mm x 9.4mm (0.37" x 0.37")	1121-0317-P1
	PLCC-32	12.2mm x 9.65mm (0.48" x 0.38")	1121-0352-P1
	PLCC-44, PQFP-84	14.5mm x 14.5mm (0.57" x 0.57")	1121-0318-P1
	PLCC-52, PQFP-100	17.0mm x 17.0mm (0.67" x 0.67")	1121-0319-P1
	PLCC-68, PQFP-132	21.9mm x 21.9mm (0.86" x 0.86")	1121-0320-P1
	PLCC-84, PQFP-160	26.9mm x 26.9mm (1.06" x 1.06")	1121-0321-P1
	Surface mount removal (SOIC/SOJ)	12.7mm (0.50")	1121-0473-P1
	Surface mount removal (SOIC/SOJ)	17.8mm (0.70")	1121-0416-P1
	Surface mount removal (SOIC/SOJ)	20.3mm (0.80")	1121-0497-P1
	Surface mount removal (SOIC/SOJ)	25.4mm (1.00")	1121-0448-P1
	Surface mount removal (narrow-body connectors/SOIC)	7.6mm (0.30")	1121-0512-P1
	Surface mount removal (narrow-body connectors/SOIC)	10.2mm (0.40")	1121-0514-P1
	Surface mount connectors removal	31.8mm (1.25")	1121-0495-P1
	Chip component (vertical)	0.76mm (0.03")	1121-0398-P1
	Chip component (vertical)	2.0mm (0.08")	1121-0313-P1
	Chip component (vertical)	4.1mm (0.16")	1121-0399-P1
	Chip component (vertical), small SOIC	6.4mm (0.25")	1121-0401-P1
	Thin-walled chip component (vertical)	0.76mm (0.03")	1121-0520-P1
Angled fine point conical	0.40mm (1/64")	1121-0517-P1	

TIP	DESCRIPTION	SIZE	PART NUMBER
Tips for DTP-80 Dual ThermoPik Handpiece			
	PQFP-100	20.8mm x 20.8mm (0.82" x 0.82")	1121-0549-P1
	PQFP-132	25.9mm x 25.9mm (1.02" x 1.02")	1121-0551-P1
	PQFP-144	29.2mm x 29.2mm (1.15" x 1.15")	1121-0553-P1
	PQFP-208	30.0mm x 30.0mm (1.18" x 1.18")	1121-0557-P1
	PQFP-160/208	31.0mm x 31.0mm (1.22" x 1.22")	1121-0552-P1
	PQFP-240	33.8mm x 33.8mm (1.33" x 1.33")	1121-0558-P1
	PQFP-196	36.3mm x 36.3mm (1.43" x 1.43")	1121-0554-P1
	PQFP-304	42.4mm x 42.4mm (1.67" x 1.67")	1121-0593-P1
	BGA-169	22.4mm x 22.4mm (0.88" x 0.88")	1121-0594-P1
	BGA-225	27.2mm x 27.2mm (1.07" x 1.07")	1121-0596-P1
Tips for TP-65 ThermoPik Handpiece			
 	FlatPack Tip	15.5mm x 21.6mm (0.61" x 0.85")	1121-0322-001-P1
	FlatPack Tip	16.8mm x 22.9mm (0.66" x 0.90")	1121-0322-002-P1
	PQFP 68 (bumper pack)	15.7mm x 15.7mm (0.62" x 0.62")	1121-0323-P1
	PQFP 64/80 (non-bumper pack)	15.7mm x 15.7mm (0.62" x 0.62")	1121-0484-P1
	PQFP 84	18.3mm x 18.3mm (0.72" x 0.72")	1121-0324-P1
	PQFP 100	20.8mm x 20.8mm (0.82" x 0.82")	1121-0325-P1
	PQFP 132	25.9mm x 25.9mm (1.02" x 1.02")	1121-0326-P1
	PQFP 144	29.2mm x 29.2mm (1.15" x 1.15")	1121-0456-P1
	PQFP 208	30.0mm x 30.0mm (1.18" x 1.18")	1121-0544-P1
	PQFP 160/208	31.0mm x 31.0mm (1.22" x 1.22")	1121-0351-P1
PQFP 196	36.3mm x 36.3mm (1.43" x 1.43")	1121-0483-P1	
Tips for TJ-70 ThermoJet Handpiece			
   	Small, Straight Single Jet Tip	.060 I.D.	1121-0366-P1
	Small, Curved Single Jet Tip	.060 I.D.	1121-0338-P1
	SOT/Chip Component Tip (dual jet)	A = 3.56mm (0.14")	1121-0329-P1
	SOIC Tip (dual jet)	A = 4.32mm (0.17")	1121-0330-P1
	SOICL Tip (dual jet)	A = 9.40mm (0.37")	1121-0331-P1
	Flat End Tip	A = 7.11mm (0.28") B = 1.88mm (0.074")	1121-0365-P1
Flat End Tip	A = 6.10mm (0.24") B = 1.88mm (0.074")	1121-0371-P1	

DESCRIPTION	CONTENTS	PART NUMBER
MBT 201-SD	MBT 201 Manual, 115V Detachable Power Cord or Export Version 230V Detachable	8007-0200
MBT 201E-SD	Power Cord, SX-80 Sodr-X-Tractor, PS-80 Soldering Iron, SX-80 Tip & Tool Stand, PS-80 Tip & Tool Stand, Tip and Temperature Selection System (Charts only). One of each tip included: P/N 1121-0336 (PS-80), P/N 1121-0337 (PS-80), P/N 1121-0414 (PS-80), P/N 1121-0624 (SX-80)	8007-0201
MBT 250-SD	MBT 250 Manual, 115V Detachable Power Cord or Export Version 230V Detachable	8007-0203
MBT 250E-SD	Power Cord, SX-80 Sodr-X-Tractor, PS-80 Soldering Iron, SX-80 Tip & Tool Stand, PS-80 Tip & Tool Stand, Tip and Temperature Selection System (Charts only). One of each tip included: P/N 1121-0336 (PS-80), P/N 1121-0337 (PS-80), P/N 1121-0414 (PS-80), P/N 1121-0624 (SX-80)	8007-0204
MBT 250-SDPT	MBT 250 Manual, 115V Detachable Power Cord or Export Version 230V Detachable	8007-0206
MBT 250E-SDPT	Power Cord, SX-80 Sodr-X-Tractor, PS-80 Soldering Iron, TP-65 ThermoPik, TT-65 ThermoTweez, SX-80 Tip & Tool Stand, PS-80 Tip & Tool Stand, TP Tip & Tool Stand, TT Tip & Tool Stand, Tip Maintenance Station, Tip & Tool Stand Tip Redi Rak, Tip and Temperature Selection System (Charts w/holder). One of each tip included: P/N 1121-0336 (PS-80), P/N 1121-0337 (PS-80), P/N 1121-0414 (PS-80), P/N 1121-0624 (SX-80), P/N 1121-0322-002-P1 (TP-65)	8007-0207

DESCRIPTION	CONTENTS	PART NUMBER
PRC 2000	PRC 2000/E Manual, 115V Detachable Power Cord or Export Version 230V Detachable	8007-0132
PRC 2000E	<p>Power Cord, SX-80 Sodr-X-Tractor, PS-80 Soldering Iron, TJ-70 ThermoJet, TT-65 ThermoTweez, LF-15 LapFlo Pulse Heat Handpiece, TW-15 ResisTweez Pulse Heat Handpiece, MC-65 MicroChine, PV-65 Pik-Vac Vacuum Wand, SX-80 Tip & Tool Stand, TJ-70 Tip & Tool Stand, TP-65 Tip & Tool Stand, TT-65 Tip & Tool Stand, PS-80 Tip & Tool Stand, Paste Dispenser Cubby, Handpiece Cubby (for Pulse Heat Handpieces), Handpiece Redi-Rak (for Pulse Heat Handpieces), (2) Tip & Tool Stand Tip Redi-Raks, Tip Maintenance Station, Tip and Temperature Selection System (Charts w/holder), Accessory Kit for Paste Dispenser, Vacuum Cups for Pik-Vac Wand, Deluxe Tool Kit (for MicroChine Handpiece), Probe Brake Patch Cord, Universal Power Cord (for Pulse Heat Handpieces).</p> <p>One of each tip included:</p> <p>P/N 1121-0336 (PS-80), P/N 1121-0337 (PS-80), P/N 1121-0414 (PS-80), P/N 1121-0624 (SX-80), P/N 1121-0625 (SX-80), P/N 1121-0626 (SX-80), P/N 1121-0313 (TT-65), P/N 1121-0338 (TJ-70), P/N 1121-0371 (TJ-70)</p>	8007-0133
PRC 2000-TH	PRC 2000/E Manual, 115V Detachable Power Cord or Export Version 230V Detachable	8007-0138
PRC 2000E-TH	<p>Power Cord, SX-80 Sodr-X-Tractor, PS-80 Soldering Iron, LF-15 LapFlo Pulse Heat Handpiece, TW-15 ResisTweez Pulse Heat Handpiece, CT-15 ConducTweez Pulse Heat Handpiece, TS-15 StripTweez Pulse Heat Handpiece, MC-65 MicroChine, PV-65 Pik-Vac Vacuum Wand, SX-80 Tip & Tool Stand, PS-80 Tip & Tool Stand, Handpiece Cubby (for Pulse Heat Handpieces), Handpiece Redi-Rak (for Pulse Heat Handpieces), (2) Tip & Tool Stand Tip Redi-Raks, Tip Maintenance Station, Tip and Temperature Selection System (Charts w/holder), Vacuum Cups for Pik-Vac Wand, Deluxe Tool Kit (for MicroChine Handpiece), Probe Brake Patch Cord, Universal Power Cord (for Pulse Heat Handpieces), Foot Pedal.</p>	8007-0139

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ST 25



ST 45



ST 65



ST 75



ST 85



ST 115



ST 115P

MBT/PRC SYSTEMS



MBT 201



MBT 250



PRC 2000

THERMOFLO SYSTEMS



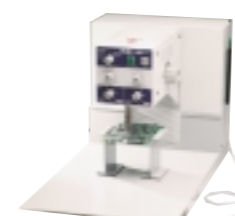
TF 200



TF 500



TF 700



TF 350



TF 2000

FUME EXTRACTION



Arm-Evac 200



Arm-Evac 250



Arm-Evac 400



Arm-Evac 1200



Lab-Evac 150

SUPPORT SYSTEMS



HS 200



HS 300



PS 100



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