



Operation and Maintenance Manual for the
PACE MBT 301[®] Digital
Soldering/Desoldering System
P/N 5050-0560 Rev. A –TWF06-05



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EOS/ESD

Tip-To-Ground Resistance: Less than 5 ohms.

AC Leakage: Less than 2 millivolts RMS from 50Hz to 500Hz

ENVIRONMENTAL REQUIREMENTS

Ambient Operating Temperature: 0°C to 50°C (32°F to 120°F)

Storage Temperature: -40°C to 100°C (-40°F to 212°F)

Capabilities

All capabilities are dependent upon the use of the appropriate Functional Accessories or Work Aids (refer to Basic Operation section). Available SensaTemp and TempWise handpieces and their associated assembly and repair functions are listed below. An Operations an(ssori)Tj10.02 0 0 10

Parts Identification



Figure 1

Listed below is a description of the Control Panel features. Use Figures 1 & 2 as a guide.

1. **LCD DISPLAY** - Provides temperature information for all three channels. This includes: Operating Tip Temperature in Temperature Display Mode (normal operation), Tip Offset Constant in Tip Offset Mode, Set Tip Temperature in Tip Set Mode and other information in Calibration (CAL) Mode.
2. **PROGRAM KEY** – Access tip offset feature and scroll through system channels.
3. **SCROLL UP KEY** - Increases the Set Tip Temperature (in Tip Set Mode) and the Tip Offset Constant (in Tip Offset Mode) in one, then ten-degree increments. Also used in (Calibration) Mode.
4. **SCROLL DOWN KEY** - Decreases the Set Tip Temperature (in Tip Set Mode) and the Tip Offset Constant (in Tip Offset Mode) in one then ten-degree increment. Also used in “CAL” (Calibration) Mode
5. **LED**; CH 1 or CH 2 Illuminated LED's change color to reflect handpiece connectivity. GREEN (circuit complete) AMBER (in process) RED (no connection / error)
6. **POWER SWITCH** - Turns system ON ("1") and OFF ("0"); controls input power to the system.
7. **PRESSURE ADJUSTMENT** - Controls variable airflow pressure delivery.
8. **PRESSURE PORT** – Quick connect fitting with provides airflow for Mini ThermoJet handpiece (in Hot Jet Mode) and Sodr-X-Tractor handpiece. Air pressure is present when handpiece finger switch or optional foot pedal is actuated. Air pressure ceases 1.2 seconds after switch (or foot pedal) is released
9. **AUTO SNAP-VAC PORT** - Quick connect fitting provides quick-rise vacuum for Sodr-X-Tractor, and ThermoPik handpieces. Vacuum is present when handpiece finger switch or optional foot pedal is actuated. Vacuum ceases 1.2 seconds after switch (or foot pedal) released.
10. **CH 1 POWER RECEPTACLE** - Provides power, tip ground, sensing circuitry and finger switch connection from MBT system to handpiece connected to Channel 1 (**CH 1**).
CH 2 POWER RECEPTACLE - Provides power, tip ground, sensing circuitry and finger switch connection from MBT system to handpiece connected to Channel 2 (**CH 2**).

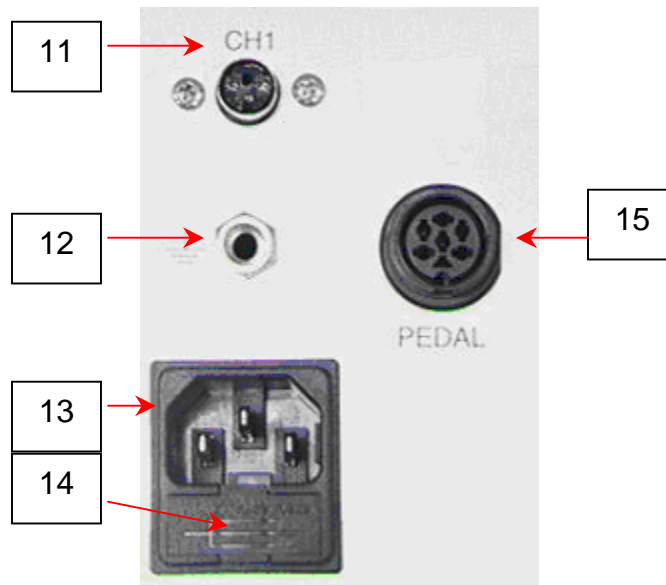


Figure 2

11. **INSTANT-SETBACK CUBBY INPUT CHANNEL 1.** Links handpiece on channel 1 to Instant-Setback Cubby. For use with TD-100 handpiece only.
12. **EARTH GROUND RECEPTACLE** - Provides positive earth ground to which a ground cable can be connected from the work piece or work surface as part of a static control program.
13. **AC POWER RECEPTACLE / FUSE HOLDER** - Receptacle for providing power to the system from AC outlet through power cord. Location of Fuse (F1), which protects system from over current conditions.
14. **FUSE** - Provides overload protection for system.
15. **FOOT PEDAL RECEPTACLE** - Input for Foot Pedal (optional), which activates vacuum or pressure to the air-operated handpieces.

If you require assistance in the use of this product, contact your local authorized PACE dealer or PACE directly as shown on page 15 of this manual

Safety Guidelines

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

1. **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.
2. To prevent personnel injury, adhere to safety guidelines in accordance with OSHA and other applicable safety standards.
3. Handpiece heaters and installed tips are hot when the handpiece is powered on and for a period of time after power off. **DO NOT** touch either the heater or the tip. 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 to cool before storing.
5. 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.
6. 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.

Safety

PACE adheres to the following Heading Guidelines (based on OSHA guidelines) when listing special information or precautions to be taken. Especially important are all procedures and practices which, if not strictly observed, could result in injury or loss of life. These "NOTES", "CAUTIONS", "WARNINGS" and "DANGERS" are inserted in this manual whenever deemed necessary. They appear in a blocked off form with double outline and a shaded background to highlight the information as shown below.

NOTE

“NOTE”

Used to indicate a statement of company recommendation or policy. The message may relate directly or indirectly to the safety of personnel or protection of property. NOTE is not associated directly with a hazard or hazardous situation and is not used in place of "CAUTION", "WARNING" or "DANGER".

“CAUTION”

Used to indicate a hazardous situation, which may result in minor or moderate injury. May also be used to alert personnel to conditions, procedures and practices which, if not observed, could result in damage to or destruction of the product or other equipment.

“WARNING”

Used to define additional information that if not closely followed might result in serious damage to equipment and represent a potential for serious personnel injury.

“DANGER”

Defines additional information that if not closely followed might result in severe personnel injury or death. Danger is not used for property damage unless personal injury risk is present.

Usage Warnings/Cautions

WARNINGS

1. A fire hazard may arise if the MBT 301 is used improperly.
2. Do not use the MBT 301 in the presence of an explosive atmosphere.
3. Be careful when using the MBT 301 in places where there are combustible materials. Heat may be conducted to combustible materials, which are out of sight.
4. Do not apply heat from the MBT 301 to one place for a long time.
5. Do not leave the MBT 301 unattended while powered on.

CAUTIONS

1. Utilize all standard electrical safety precautions when using this or any other electrical equipment.
2. Always use this system in a well-ventilated area. A fume extraction system such as those available from PACE are highly recommended to protect personnel from solder flux fumes.
5. 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.

Servicing Precautions

DANGERS

POTENTIAL SHOCK HAZARD - Repair procedures performed on this product should be performed by qualified service personnel only. Line voltage parts will be exposed when equipment is disassembled. Service personnel must avoid contact with these parts when troubleshooting.

Precautions

The following are general safety precautions that personnel must understand and follow when using or servicing this product. These precautions may or may not be included elsewhere in this manual.

Safety

Electrical Requirements

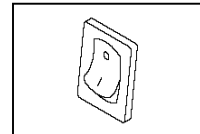
The MBT 301 unit draws approximately 240 VA (240Watts), which is listed on the nameplate on the power source rear panel. A separate, dedicated AC supply line circuit may be required to adequately power the unit/system. If your power outlet cannot provide suitable power, arrange for a qualified, licensed electrician to install one for you.

System Set-Up

Power Source

Set up the MBT 301 system using the following steps and associated drawings.

1. Remove the MBT 301 from its shipping container(s). Store the shipping container(s) in a convenient location. Reuse of these containers will prevent damage if you ship or store the system.
2. Set the MBT 301 unit on a convenient workbench.
3. Place the **POWER** Switch (on power source front panel) in the "OFF" or "O" position.



4. Inspect all system components, check for shipping damage, and ensure that all purchased components (standard and options) are present. Use the drawings provided in the following pages as a guide for checking the parts that come with the unit.
5. Assemble Tip & Tool Stands. Attach to the power source if desired. Assembly instructions are enclosed with each Tip & Tool Stand.

6. Connect blue handpiece connector plug(s) to the blue power receptacle(s) **CH 1**, and/or **CH 2** in the following manner. See Fig. 3a.
 - a) With the Connector Key end facing the power source, turn the Locking Ring fully counterclockwise.
 - b) Orient guide on connector with slot of power receptacle.
 - c) Insert connector into power receptacle.
 - d) Turn Locking Ring fully clockwise to lock in place.

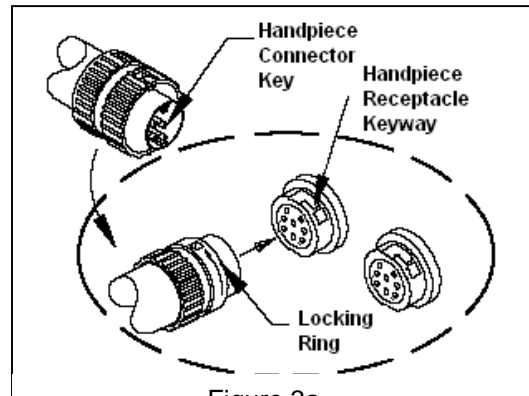


Figure 3a

7. To avoid confusion among handpieces, PACE recommends the use of colored cable markers (P/N 6993-0136 Cable Marker Kit) to identify the particular handpiece. Attach any two like colored markers, one to each end of the handpiece power cable or air hose. Select and use a different colored marker for each handpiece. Labels are also provided to mark Tip & Tool Stands with the name of the associated handpiece.
8. If you have purchased an optional foot pedal, insert the connector plug into the PEDAL Receptacle on the rear panel of the power source. See Fig. 3b. Install additional handpieces and accessories as necessary.
9. Plug the prong end of the power cord into a convenient three wire grounded AC power outlet. The system is now ready for operation.
10. Read the "OPERATION" section of this manual thoroughly before operating the system.

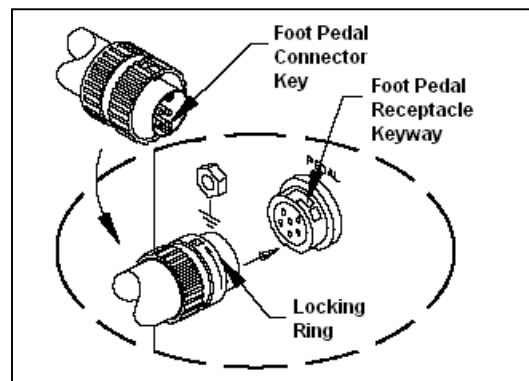


Figure 3b

Attaching Tip & Tool Stand to MBT 301

Attach the stand to the power source, using the following procedure. Refer to illustration.

1. Insert the 2 enclosed hex head Mounting Screws into the slot on the side of the Power Source. Some kits may contain 4 mounting screws; 2 with small heads and 2 with large heads. Use the 2 screws that fit properly in the slot. Also, some Power Source cases have more than 1 slot; use the lower slot.
2. Position the Mounting Screws to the rear of the power source and spaced approximately 2 inches apart. Refer to illustration.
3. Place the Tip & Tool Stand beside the power source. Insert ends of the 2 Mounting Screws into the 2 adjacent Tip & Tool Stand mounting holes.
4. Install a Thumb Nut onto the end of each Mounting Screw. Tighten Thumb Nuts to secure the Tip & Tool Stand in position. You may wish to set the Power Source on its side and remove the drip tray to ease installation of the Thumb Nut.
5. Additional Tip & Tool Stands or “cubby’s” may be secured to each other by aligning mounting holes on stand sides. Use hex head screws and thumb nuts to mount cubbys together.

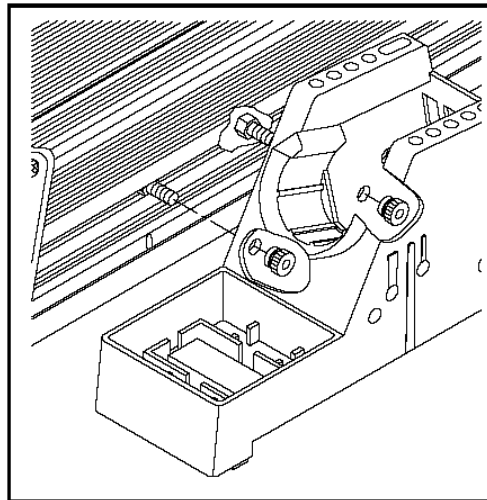


Figure 4

Optional Instant-Setback Cubby

The optional Instant SetBack Cubby is available for use with the MBT 301 and will only function with the TD-100 handpiece. When connected, it automatically puts the system into Setback mode when the TD-100 is placed in the cubby. The Instant Setback Cubby will only function with the TD-100 Handpiece. The instant SetBack receptacles are located on the back panel. See figure 3. The instant setback cubby's function is to protect tips, not power off the system. Instant setback is a feature that lowers the temperature to 350°F after 45 seconds of inactivity. At 350°F the solder has solidified so any iron erosion on the tips ceases, protecting the tip.

Tip Removal

WARNING

Never remove a heated tip using bare hands. Use the Hot Grip Rubber Pad or Tip Tool.
Never use a wrench or pliers when removing a handpiece tips.

WARNING:

1. Remove TD-100 and MT-100 handpieces while holding Tip Heater Cartridge with the Rubber Pad; gently pull the THC from handpiece. For PS-90, SX-80, TT-65, and TJ-80 handpieces, loosen heater set screw and remove iron tip with Rubber Pad.
2. Place the tip (still hot) in tip / tool stand.

Definitions

Please read and become familiar with the definitions of each of the following terms that are used repeatedly in the following operational procedures.

Auto-Off: Safety feature that turns power off (1-90 minutes, settable in 1 minute increments) after the system has entered Temperature Setback.

Normal Operation: Normal operating mode of the system in which the Operating Tip Temperature is displayed.

Password: The Password feature of the MBT 301 system will prevent unauthorized alteration of stored system temperature parameters and feature settings. If a Password has been installed, the LED Display will display an instruction to enter the password. Enter a four digit number selected using the scroll up /down keys on the system front panel) when a setting change is attempted.

Programming Menu: The interface used to program the system features parameters (e.g., temperature limits, password, setback time).

Set Tip Temperature: The operator selected idle tip temperature entered into the system memory.

Temperature Adjust Mode: Mode of operation where the Set Tip Temperature may be adjusted.

Temperature Setback: System feature that will independently set back the Set Tip Temperature to 177°C (350°F) after a user selected or preset period of handpiece inactivity.

System Power Up

1. Insert the female end of the power cord into the AC Power Receptacle on the rear panel of the power source.
2. Plug the prong end (male end) of the power cord into an appropriate 3 wire grounded AC supply receptacle.

CAUTION

To insure operator and ESD/EOS safety, the AC power supply receptacle must be checked for proper grounding before initial operation.

LED Operation

The Green colored Temperature LED on the power source front panel indicates System Status.

LED Green - Indicates that the set tip temperature has been reached. Power to the handpiece is cycling Off and On to maintain set temperature.

LED Amber - Continuous power is being delivered to the handpiece. This condition is evident when the system is first powered up (handpiece heater cold) or the Variable Temperature Control setting is increased.



LED Red - No power is being delivered to the handpiece heater. If the LED never illuminates, check for a faulty handpiece heater (see Corrective Maintenance section).

Operation

Accessing Programming Menu


The menu driven LED Display of the MBT 301 system allows you to easily customize your system. By accessing the programming menu, you can:

- Enter, remove or change a Password.
- Set the Default Temperature scale to °F or °C as desired.
- Change the Upper and Lower Temperature limits.
- Enable or disable the Temperature Setback feature.
- Enable or disable the Auto Off feature.
- Enable or disable the Scan feature.
- Enable or disable the display contrast and backlight settings.

To access set up mode, press and hold the PROGRAM Key  while powering on unit. Release key when "Software Version" appears. Pressing the PROGRAM Key  will scroll through each menu option without changing the stored setting.


Follow the MBT 301's on screen prompts to review or set each menu option starting with the password feature.

1. Password Menu

<i>Same</i>	Retains previous password and move to the next step.
<i>Yes</i>	Prompts the operator to enter a new password. Use the scroll up / down keys on the system front panel to select a four digit password. Once password is entered, press the PROGRAM Key  to accept the password and move to the next step. Entering "0000" as a password will disable the password feature.
<i>No</i>	Selecting "NO" bypasses the password feature and moves to the next step.

2. Setting Temperature C /F

The LED Display now shows the stored default Temperature Scale °C or °F temperature shown on LED Display). Choose one of the following:

- a) Press the PROGRAM Key to keep the stored default Temperature Scale.
- b) Press and release the  UP Key to change the default Temperature Scale.
Press and release the PROGRAM Key to move to the next step.

3. Set Upper Limit

Press the ▲ UP and DOWN ▼ to set the upper temperature limit. 900°F is the upper limit for SensaTemp handpieces. The Upper limit for TempWise handpieces is 850°F. Press and release the PROGRAM Key ● to move to the next step. The upper limit feature will limit the temperature range that an operator may work within. Setting a password will lock out unwanted changes to this feature.

4. Set Low Limit

Press the ▲ UP and DOWN ▼ to set the upper temperature limit. 100°F is the lower limit for SensaTemp handpieces. The lower limit for TempWise handpieces is 500°F. Press and release the PROGRAM Key ● to move to the next step. The lower limit feature will limit the temperature range that an operator may work within. Setting a password will lock out unwanted changes to this feature. Adjusting the working temperature below the set lower limit will turn power off to the selected channel.

5. SetBack Time

Choose one of the following:

- Press and release the PROGRAM Key ● to keep the currently stored Temperature Setback time.
- Press and release the Scroll ▲ UP Key to enable or increase the stored Temperature Setback time. Press and release the PROGRAM Key ● to proceed to the next step. Set back may be disabled by entering (00). The maximum set back time is 90 minutes.
- Press and release the Scroll Down Key to decrease or enter "00" to disable the stored Temperature Setback time. Press and release the PROGRAM Key ● to proceed to the next step.

The LED Display now shows the stored Temperature Setback time in minutes

6. Set Auto Off

Press the ▲ UP Key to enter increase the auto-off time. When enabled, the Auto Off safety system of the MBT 301 system turns off the power to the Handpiece 1- 90 minutes after entering Temperature Setback. When the system has entered Temperature Setback, an Auto Off timer within the system circuitry will start running if Auto Off is turned on. When Auto Off has activated, the LED Display will blink "OFF". To disable the Auto-Off feature, enter "00". If any key is pressed during the selected time out period, the Auto Off timer is reset. The system will return to normal operation. At the end of the time out period, the system will enter Auto Off. Power is turned off to the heater and the LED Display will show a flashing "OFF" and the LED indicator will turn red. Press and release the PROGRAM Key to move to the next step.

7. Set LCD Contrast

Press the UP ▲ and DOWN ▼ to enter increase or decrease LCD contrast. The range of contrast is 1 to 100. Press and release the PROGRAM Key ● to move to the next step.

8. Set LED Backlite

Press the UP ▲ and DOWN ▼ to enter increase or decrease LCD contrast. The range of backlite is 1 to 100. Press and release the PROGRAM Key ● to move to the next step.

9. Exiting the Programming Menu

The LED Display now reads "End". The Set-Up Mode procedure is now complete. Choose one of the following steps:

- Press and release the UP ▲ Key to exit Set-Up Mode and return to normal operation.
- Press and release the DOWN ▼ Key to return to the start of the Set-Up Mode procedure.

Temperature Adjust Mode

To increase or decrease handpiece temperature, press the UP ▲ or DOWN ▼ arrow key once. The display will show the current temperature setting for channel "1". Press the UP ▲ or DOWN ▼ arrow keys to increase or decrease handpiece temperature for channel "1". Or press the ● PROGRAM Key to move the next channel. After a period of 10 seconds of inactivity, the display will return to normal operation.

Setting Channel Offset

To increase or decrease handpiece temperature offset, press the ● PROGRAM Key once. The display will show the current temperature offset setting for channel "1". Press the UP ▲ or DOWN ▼ arrow keys to increase or decrease offset temperature for channel "1". Or press the ● PROGRAM Key to move the next channel. After a period of 10 seconds of inactivity, the display will return to normal operation.

Accessing Calibration Menu

Press and hold the ● PROGRAM Key and the ▲ UP keys while powering on unit. Release keys when "Software Version" appears. Follow the instructional prompts to review or set each menu option.

Calibration Instructions

The steps for the procedure are:

1. Remove any offset from the system by disconnecting the handpiece from the system. Re-connecting the handpiece and proceed to step 2.
2. LED should go to amber. Set the MBT 301 to (700°C).
3. Record the actual temperature of the tip from your temperature verification device.
4. Place the MBT 301 into the Calibration mode. Start with the system power switch in the off position. Press and hold the ● PROGRAM Key and the ▲ UP key while turning the system on. Release both keys when the display reads version 1.2 or higher.
5. The display will now read Channel "1" System Cal? Press the ▲ UP key to enter a temperature for channel "1". Press ▼ key / NO to move to the next channel.
6. Use the UP ▲ and DOWN ▼ keys to enter the temperature that you recorded by the temperature

NOTE
Before calibration is attempted, the system should be allowed to reach set temperature and stabilize for at least 15 seconds before calibrating.

verification device. For example, your temperature verification device reads 695 °F. Scroll through until the display reads 695.

7. Press the ● PROGRAM Key to save calibration and move to the next channel. Upon exiting, LED will illuminate green and the display will return to normal operation mode.

Hello Message

The Hello Message feature of the MBT 301 allows the operator to enter a message that will be displayed when the system is turned on. To access the Hello Message menu, press and hold the ● PROGRAM Key and DOWN ▼ arrow keys while powering on unit. Release keys when "Software Version" appears. The MBT 301 will display "Do you want to input a Hello Message? Using the UP ▲ key, scroll through the characters pausing on your selection. Press the ● PROGRAM Key once to move the cursor to the next character. Press the setup key twice to exit the Hello Message menu.

If a hello message has been entered, the display will prompt the user to delete the hello message. Press the UP ▲ key to change the hello message or press the DOWN ▼ arrow key to exit and return the normal operation mode.



Corrective Maintenance

Power Source

Refer to the table below. Most malfunctions are simple and easy to correct.

Symptom	Probable Cause	Solution
No power to system	Blown Fuse	Inspect and replace the fuse(s) located on the power source rear panel
	Line cord unplugged	Plug line cord into the appropriate AC outlet
Heater Assembly does not heat	Open Heater	Contact PACE for assistance
Little or no air flow, heater heats and blower is running	Kinked air hose	Change routing of air hose to remove kinks
Little or no vacuum	Worn vacuum pump	Replace vacuum pump. Contact PACE for assistance.
Vacuum Cup will not hold component	Worn or broken vacuum cup	Replace vacuum cup
Vacuum Pickup Rod binding	Vacuum Pickup rod is bent	Contact PACE for assistance

Packing List

Item #	Description	Part Number	MBT 301 Only	MBT 301 E Only	MBT 301 System	MBT 301 E System
1	System Power Supply	8007-0480	1	0	1	0
2	System Power Supply (Export)	8007-0481	0	1	0	1
3	Power Cord, 115V	1332-0094-P1	1	0	1	0
4	Power Cord, 230V	1332-0093-P1	0	1	0	1
5	Hot Grip Removal Pad	1100-0307-P1	0	0	1	1
6	Fiber Cleaning Tool	1100-0232	0	0	1	1
7	Cleaning Sponge Tool	1100-0233	0	0	1	1
8	Wire Brush 3/16 Diameter	1127-0014	0	0	1	1
9	Cable Marker Kit	6993-0136-P1	0	0	1	1
10	Angle Bracket Kit	6018-0097-P1	0	0	1	1
11	PACE Screwdriver	1100-0230	0	0	1	1
12	SX-80 (Blue Connector) Kit	6993-0266-P1	0	0	1	1
13	MT-100 ((Blue Connector) Kit	6993-0264-P1	0	0	1	1
14	TD-100 (Blue Connector) Kit	6993-0263-P1	0	0	1	1
15	Operations Manual CD	5050-0459	0	0	1	1

Spare Parts

Item #	Description	PACE Part Number
1	Fuse, 2.0 A, 125 V, Lag Time (MBT 301)	1159-0275-01-P5
2	Fuse, 1.25 A, 230 V, Lag Time (MBT 301E)	1159-0275-02-P5

Service

Please contact PACE or your local distributor for service and repair.

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