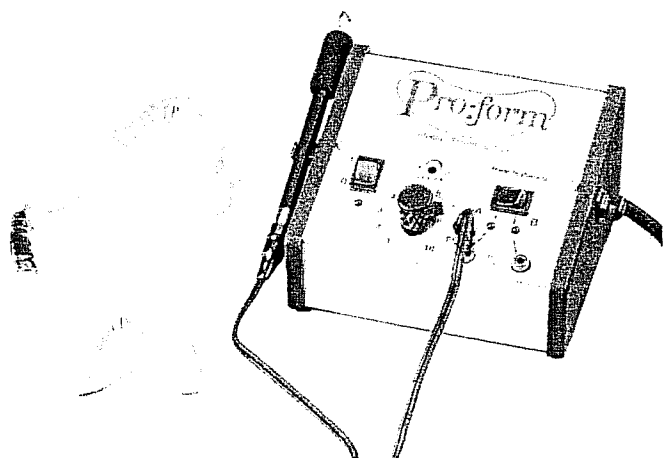




## **ELECTRIC KNIFE**



### **Operating Instructions, Suggested Methods and Warranty Information**

Please read and fully understand these detailed instructions before using your NEW Proform Electric Knife and Accessories.



A great little electric knife for trimming a variety of thermoplastics. The unit has solid state circuitry, 3 interchangeable handpieces, 2 outlet stations, all stainless steel construction and 10 amps of power.

**ITEM # 9144730**

**DENTAL RESOURCES**  
**400 CONGRESS STREET**  
**MAPLE LAKE MN 55358**  
**Local: 320-963-6267**  
**Toll free: 800-328-1276**  
**Fax: 320-963-2029**

**Email:** [info@dentalresourcesinc.com](mailto:info@dentalresourcesinc.com)  
**Web site:** [www.dentalresourcesinc.com](http://www.dentalresourcesinc.com)

Thank you for choosing our **NEW Electric Knife**. This unit has been specially designed for the dental industry, featuring a high output transformer, heavy duty handpiece and cutting edges. Please take a few minutes to read these instructions. The SS-D10 features a CSA NRTL/C safety certified solid state power supply and some of the finest tips made. They will provide years of dependable service if properly used and maintained.

WARNINGS

DO NOT LEAVE THIS UNIT UNATTENDED WHILE IN USE. IF THIS UNIT IS NOT OPERATED OR USED IN IT'S STRICT REQUIREMENTS, SEVERE BURNS OR POSSIBLE FIRE MAY OCCUR.

- **Shock Hazard:** Do not open the cabinet. No user serviceable parts inside. Keep this and all power tools well away from water or sources of moisture.
  - Do not use excessive pressure on tip. If a deep cut is required, turn the temperature up and let the heat do the cutting. Heavy-duty handpieces are also available as accessories. They will withstand considerably more pressure than the standard pens.
  - Keep this and all tools away from children. This tool should not be used by children unless under the direct supervision of an adult.
  - Always be sure to have adequate ventilation. Many materials give off fumes when burned.
- Any technical questions concerning this product, please call our toll free number: 1-800-328-1276

BASIC OPERATION

Your **NEW Proform Electric Knife** is very easy to use. Plug one end of the handpiece cord into handpiece jack "A" or "B", then the other end into the back of the handpiece. Set the selector switch to "A" or "B", depending on which jack is used. Turn the main power switch "on", then adjust the handpiece temperature with the dial on the front panel ("1" is coolest, "10" is hottest). ***IMPORTANT NOTE:***  
***The tip takes only seconds to heat up.***

WARRANTY INFORMATION

Your **NEW Proform Electric Knife** is warranted to be free from defects in manufacture for a period of three (3) years on the power supply, and one (1) year on the handpieces. This warranty provides for repair or replacement, at the manufacturer's option, of any defective components.

This warranty is limited to the actual cost of repairs and will not cover shipping costs or any consequential damages resulting from failure of the unit or it's components to perform as stated. **All warranty work must be done by the manufacturer.** The manufacturer WILL NOT cover the costs of repairs done elsewhere.

Warranty will be voided if unit has been tampered with or altered or if repaired by unauthorized persons or companies. In the unlikely event that your burner or handpiece should need service, our average repair turn around time is only three weeks. To receive our out-of-warranty servicing, return the COMPLETE UNIT INCLUDING ANY CORD(S), PEN(S) AND / OR TIP (S) to your dealer or send it directly to: *Dental Resources*  
*400 Congress Street West*  
*Maple Lake MN 55358*

## HANDPIECE AND TIPS

Our Proform handpieces are specially designed with the dental industry in mind. Tips are sharpened and polished to a razor-sharp edge. Available in 3 different tip shapes. All of our handpieces and attachments carry a full one-year limited warranty.

### Technical Data

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Type:                 | Electronic hot-wire pyrographic tool                      |
| Model:                | SS-D 10                                                   |
| Input:                | 120VAC, 60Hz, 0.30A                                       |
| Output:               | 2.2VAC, 10.0A max.                                        |
| Wattage:              | Max. 45 watts                                             |
| Temperature range:    | 340F (170C) to 1400F (745C) approx.                       |
| Size:                 | 5" x 5" x 3.5" (127mm x 127mm x 82 mm)                    |
| Weight:               | 2.6 lb / 1.2 kg                                           |
| Safety Certification: | CSA NRTL/C (North America)<br>File# LR95555-5             |
| Warranty:             | 3 years (power supply)<br>1 year (pen, cord & fixed tips) |

### Useful Accessories & Procedures

For best and accurate results, please refer to the "heat chart" and "temperature settings" featured later in this instruction manual. This will prolong tip life and make the handpiece more comfortable to hold, as well as give a cleaner cut with less carbon build-up.

If your trimming and cutting techniques require high heat settings, consider buying another handpiece to use with the additional outlet ("A" or "B"). When one gets too warm to hold, switch to the other. Let the warm one cool for ten minutes.

### Useful Accessories & Procedures Con't

Carbon build-up on tips can be quickly and effectively removed with one or two quick passes over a cleaner / scraper wheel. NEVER use abrasives like sandpaper or sharpening stones to remove carbon from your tip. Just attach a silicone wheel to your bench engine or electric handpiece and with a few light passes, your tip will look like new again.

If necessary you can clean the inside of the brass tubes on an ITH Pen with an inexpensive tip cleaning set for an acetylene torch, available from welding suppliers. Clip off the tip of the largest reamer that fits comfortably inside the brass tube, then use the reamer to clean out deposits inside the tube.

Cleaning other electrical contacts can be done with an ordinary pencil eraser. Be sure to clean off small rubber particles after using.

If you have to "reach" further with your handpiece, remember the foam grip will slide back and forth on your pen, so you can move it back out of the way when necessary. Extra or replacement grips are available.

When your application or procedure calls for melting any material (i.e. waxes, plastics, etc.) **Please take caution.** Molten material would cause a contact problem on ITH Pens, resulting in handpiece failure. Also be sure to work under well-ventilated conditions at all times while burning, but especially while melting substances.

Useful Accessories & Procedures Con't

Should you need to send a handpiece back for service, remove the foam grip before mailing. Sending the pen in a padded envelope or between 2 pieces of cardboard will reduce mailing costs (compared to mailing it with the grip on).

Troubleshooting Guide

Problem: Probable Cause(s) Remedy

|               |                                                                                                                                       |                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| HOT HANDPIECE | Check for cracked or broken tip. If tip is OK, see below or "handpiece gets hot at back end" problem                                  | Return handpiece for tip replacement. If out of warranty, you will be charged only the cost of a new tip (no labor charges on tip replacement). |
|               | Handpiece gets uncomfortable to hold when used at high heat settings (any amount of red glow to the tip is considered high heat use). | Allow cooling time for handpiece if high heat is necessary. Consider purchasing an extra handpiece and alternating them when too hot.           |

|                                |                                                                                                                          |                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HANDPIECE GETS HOT AT BACK END | Poor electrical contact between handpiece cord and handpiece.                                                            | Try flipping the handpiece supply cord end-for-end. Be sure plugs are clean and fully seated. Loose connections may be improved by slightly crimping the metal ring around the plug so it fits more snugly around the jack. Be careful not to break the metal ring by over crimping. |
|                                | May be caused by a dirty or defective handpiece cord plug, or dirt / dust on the connector at the back of the handpiece. |                                                                                                                                                                                                                                                                                      |

Problem: Probable Cause(s) Remedy

|                                                                                                       |                                                                                                          |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INCONSISTENT HEAT FROM HANDPIECE<br>(sometimes accompanied by a "buzzing" noise inside the handpiece) | Poor electrical contact between power supply and handpiece. May be caused by loose or dirty connections. | The point where the contact is poor will often get hot to touch, or emit a faint "buzzing" noise. Be sure all connections are clean and tight. Scrape carbon from tip edge with a utility blade. NEVER use abrasives such as sandpaper for carbon removal. Check for power at outlet. Call Proform Customer Service Department. |
|                                                                                                       | Carbon build up on tip surface                                                                           |                                                                                                                                                                                                                                                                                                                                 |
| UNIT DOES NOT WORK AT ALL                                                                             | No power at outlet.                                                                                      |                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                       | Internal power supply fault.                                                                             |                                                                                                                                                                                                                                                                                                                                 |

|                                                                 |                                              |                                                                                                                                                                       |
|-----------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TIP LEAVES A BROWN MARK ON SURFACE WHEN TEMPERATURE SET TO "0". | Low-end temperature adjustment set too high. | Insert a small screwdriver or 3mm hex key into the low-end temperature adjustment port. Turn counter-clockwise in small increments to reduce the low-end temperature. |
|-----------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

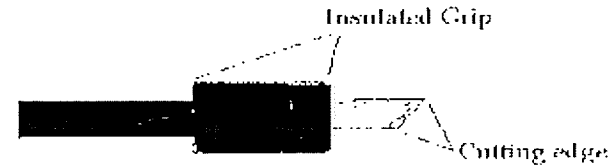
|            |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROKEN TIP | Too much pressure on tip while burning. Tip worn through from incorrect carbon removal (do not use abrasives to remove carbon). Old Tip. Unfortunately, they don't last forever. Remember our Handpieces carry a one year limited warranty. | Fixed tip pens are not user replaceable. Return handpiece for tip replacement (you will be charged only for the tip cost – no labor charges). If tip breakage is a persistent problem, consider purchasing a HEAVY DUTY handpiece available from your local dental dealer. |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SUGGESTED SETTINGS FOR PROCEDURES

Below is a guide showing different materials and procedures, and the suggested heat setting for each:

| Technique          | Material                           | Proform Knife Heat Setting |
|--------------------|------------------------------------|----------------------------|
| Bleaching Trays    | .040 EVA sheets                    | 3 – 4                      |
|                    | .060 EVA sheets                    | 4                          |
|                    | .080 EVA sheets                    | 4                          |
| Sports Mouthguards | .150 Mouthguard Mat.               | 7                          |
|                    | Proform Laminated Mouthguard       | 7                          |
| Bruxism Appliances | Dual Laminate (Hard/Soft)          | 9                          |
|                    | Clear Splint Material              | 8                          |
|                    | Proform Laminated Nightguard       | 7                          |
| Temp. C&B Splints  | .020 Clear Material                | 5                          |
|                    | .020 Coping Material               | 5                          |
| Custom Trays       | .125 VF Custom Tray Mat.           | 9                          |
|                    | .150 VF Custom Tray Mat.           | 9                          |
|                    | Hydroplastic (Pellet) Custom Trays | 3                          |
| Baseplates         | .060 - .080 Pink VF Baseplate      | 4 – 5                      |
|                    | Shellac Baseplate                  | 3 – 4                      |
|                    | Baseplate Wax (pink)               | 1 – 2                      |
|                    | Baseplate Wax (red)                | 2                          |

Difficulty in cutting may be experienced when the incorrect surface of the tip is used to cut plastic. To ensure proper cutting with neat edges, position tip so that the cutting edge (as indicated below) is on the leading edge.



#1L Cutting Tip

## CUTTING TIPS



#1L Cutting Tip



#1S Cutting Tip



#5L Cutting Tip