

USING THE PRECISION PROBE SET

The precision probe set (PPS8) is specifically designed for use with ultra fine pitch surface mount packages. These packages, usually 8 pin TSSOP (Thin Super Small Outline Package) or QFP (Quad Flat Pack) have lead spacing which is far too small for the standard surface mount probe set (SMP8) pinchers to grip.

ATTACHING THE PROBES TO THE DEVICE

The precision probes used in the PPS8 package incorporate a teflon coated metal sleeve with an untra small pincher mechanism. The coating allows the probe ends to touch without causing a short circuit between adjacent leads. Each probe body is color coded to match a pin number. The colors follow the EIA (Electronic Industry Association) standard color code: **BROWN - 1, RED - 2, ORANGE - 3, YELLOW - 4, GREEN - 5, BLUE - 6, VIOLET - 7, GREY - 8.**

IMPORTANT: The device leads must be completely clean of any sealant or insulating contamination. If the leads are not clean, positive contact cannot be guaranteed.

To attach a probe to the device pin depress the lever on the top of the probe. The pincher mechanism is exposed. Open the pincher sufficiently such that the jaws encompass the lead. Be sure the lever is in the upright position and that the probe is perpendicular to the body of the device. When attaching the probes it is difficult to keep those already connected from moving about, however do your best to prevent undue stress on the probe mechanisms. Attach each probe in order until all probes are connected. It is very important that the probe bodies be parallel to each other and not at different angles or elevations as this will cause the pincher jaws to extend and possibly short to an adjacent pin. When the probes are properly connected and aligned, you will have two groups of four probes side by side which are perpendicular to the left and right sides of the device.

CONFIRMING A PROPER CONNECTION TO THE DEVICE

After the probes are attached, instruct the EPROM+ system to read the device. Examine the contents of the buffer and determine if valid data is present. If it appears that no data has been read, shift the position of a probe group (4 probes) left and right slightly in an attempt to penetrate any contamination which may remain on the device leads. If after you move the probe group you cannot read the device, use a magnifying glass or other optical enlarger to view the probe connections in order to determine the connection problem. Once valid data can be read, proceed with the operation you wish to perform.

DISCONNECTING THE PROBES FROM THE DEVICE

The probes are disconnected from the device by reversing the procedure in which they were attached. Fully depress the lever on the probe body to open the pincher jaws. Carefully remove the jaws from around the device lead. **DO NOT PULL ON THE PROBE TO REMOVE** as this will distort the pincher jaws and damage the mechanism.