

# Conductive Pad

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## Replacement Guide

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# *Instructions*

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## About the Pad

Studies have shown that the throughput of programming devices with the MatchBook technology is greatly improved over standard sockets. You can insert devices easily without damaging the delicate pins and you can remove them quickly. And there are no more sockets to replace.

The conductive pad is a key element in the MatchBook technology. It is important to keep this pad free of dirt or contamination to ensure good contact between the programmable device pins and the pad.

The life of the pad is dependent on proper care as well as the device types being used. Typical insertion rates for a standard 20-pin PLCC are around 10,000 cycles. However, not all devices have the same tolerances and each device type may result in different life cycles for the pads.

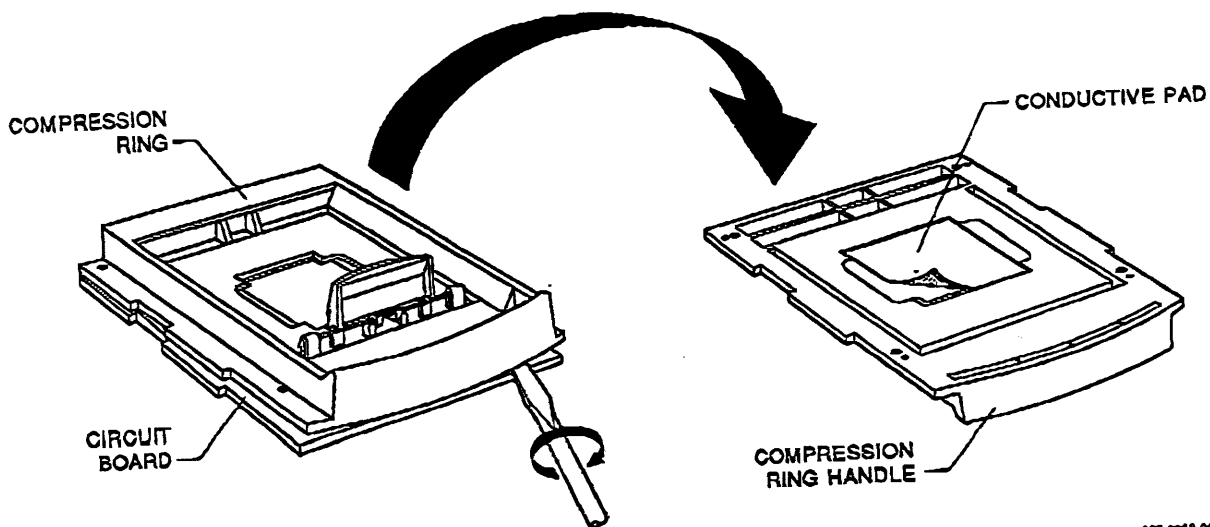
If you experience a sudden drop in your programming yields, it may be an indication that the pad needs to be replaced. The base has been designed to allow an operator to quickly and easily replace the pad with minimum downtime. Replacement pads are available from Data I/O in kits containing five or ten pads.

## Removing the Old Pad

To replace the conductive pad, you must first separate the compression ring from the circuit board (base unit).

1. Hold the base and with a small screwdriver or other small, blunt instrument, gently pry the circuit board from the compression ring. (See Figure 1.)
2. Turn the compression ring upside down with the handle toward you.
3. Remove the old conductive pad by lifting the pad from the compression ring. Adhesive strips are along the front and back edge. Discard.

*Figure 1*  
*Removing Old Conductive Pad*



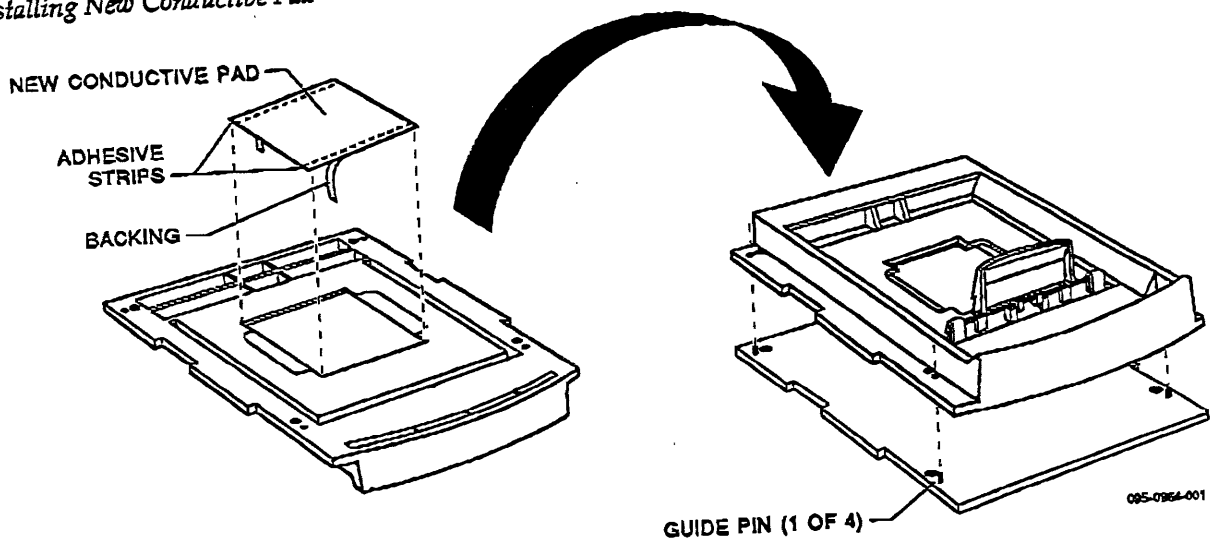
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## Inserting New Pad

Use the following procedure to insert your new conductive pad.

1. Take a replacement conductive pad from the plastic bag and remove the adhesive strip backing. (See Figure 2.)
2. With the compression ring resting on a flat surface, place the new conductive pad in the recessed area of the compression ring as shown in Figure 2.
3. Gently press the adhesive edges down.

*Figure 2*  
Installing New Conductive Pad



## Reassembling the Base Unit

To reassemble the base, align the guide pins on the circuit board with the guide holes on the compression ring as shown in Figure 2. Gently press the circuit board into the compression ring. You may need pliers to ensure that the circuit board is fully engaged.

## Pad Care

Inspect and clean each pad as needed; we recommend cleaning the pad approximately every 1000 insertions or once a month. It is normal for the pad to show signs of discoloration as it is used.

Clean the conductive pad of debris by blowing air over the pad. If you use compressed air, direct the air stream from the front or back of the base adapter. Avoid air streams from the side of the pad, which could lift the pad off the circuit board. To further clean the pad, apply a small amount of denatured alcohol on a cotton swab and gently wipe the pad to dislodge dirt. Make sure the pad is clear of any filament left over from the cleaning process.

**WARNING:** Do not use any petroleum based or freon based products to clean the pad. These substances cause premature deterioration of the pad material.