

## M<sup>2</sup> Circuits

# TM500 & 5000 Series Tek Extender Card

### Introduction

This extender card is designed to be used with both the Tektronix TM500 and 5000 series oscilloscope plugins. The card edge that inserts into the mainframe is denoted by the arrow's direction. The card edge has all of the appropriate keys to fit in both mainframe systems.

### Caution!

It is possible to plug an extended 5000 series card into a TM500 mainframe, and vice versa. However, doing so will damage the mainframe and plugin, as the two systems use different supply pins and voltages! M<sup>2</sup> Circuits is not responsible for any damage caused while using the extender card. It is designed to be used by those who understand this, and also know the dangers of working around high voltages and open connections.

### Assembly

The extender card ships without the connector attached for ease of shipping, and to avoid any damage during transit.

The connector supplied with the card may be soldered center to the edge of the card (by bending the pins inward), or to one side (only bending one side of pins). Be careful when bending the pins, as bending them too far may cause the contact to come out of the socket.

The holes located closest to the connector side of the card are provided for probing pins. These are also sized for test points which may be populated. Test points can provide a nice place for hooking oscilloscope probes to.

Here are the manufacturer and Digi-Key part number for the test points:

Keystone (manufacturer) part number: 5010

Digi-Key: 36-5010-ND

### Use

The easiest way to use the extender card is to insert the plugin into the connector first, and then plug the extender card into the mainframe.

A legend on the side of the card is provided, and has pinouts for both systems. They mainly highlight supply voltages and other helpful connections.