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/ How do I compensate for different delays in probes and cables when using my DPO3000+ MSO3000+ DPO4000 or MSO4000?

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## Question :

How do I compensate for different delays in probes and cables when using my DPO3000+ MSO3000+ DPO4000 or MSO4000?

## Answer :

TekVPI probes, such as the TAP1500 and TCP0030, automatically compensate for the timing differences to less than 1nsec timing error. (See p.9 of the [VPI Technical Brief](#) for more information).

The DPO3000 and DPO/MSO4000 series also have manual deskew capability in the Probe Setup menu for each channel to support other probes, such as the P5100 and TCP202. Press the colored channel front panel button to bring up the channel menu, press the Probe Setup bottom menu button, press the Deskew side menu button, and adjust the relative horizontal timing of the channel with the top multipurpose knob.

For the best deskew accuracy when examining high frequency signals, you need to use a deskew fixture to provide phase-aligned voltage and current signals. The 067-1686-00 deskew fixture can be used with an external generator to provide these signals. The generator will need to provide a risetime about the same speed as the scope/probe combination. (For example, for a 350 MHz scope, using the rule of thumb: Rise Time = 0.35/Bandwidth, you will calculate you would want about a 1 nsec risetime. For a 100 MHz scope/probe combination, 2-3 nsec would be adequate.)

This FAQ Applies to:

Product Series: [MSO3000 / DPO3000](#)

Product:

FAQ ID 63511

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