

Deskew Fixture

GKT-100

USER MANUAL

CW INSTEK PART NO. 82KT-10000M01



ISO-9001 CERTIFIED MANUFACTURER



GETTING STARTED

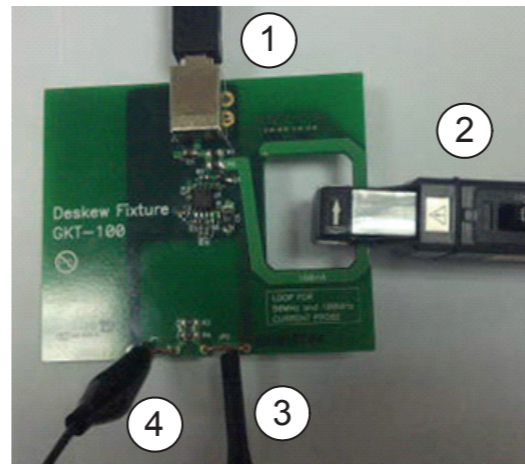
The GKT-100 deskew fixture is used to compensate for the propagation delay between a passive voltage probe and current probe. It is used with the GDS-3000.

Required tools

- GDS-3000 x 1
- GKT-100 x 1
- USB type A-B cable x1 -used for deskew fixture
- Standard passive probe x1
- Current probe x1 (GCP-530 or GCP-1030)

CONNECT THE DESKEW FIXTURE

Before performing the manual deskew procedure, please connect the deskew fixture to the USB host port on the GDS-3000. Connect a passive voltage probe to the JP1 terminal on the fixture and the current probe as shown in the next picture.






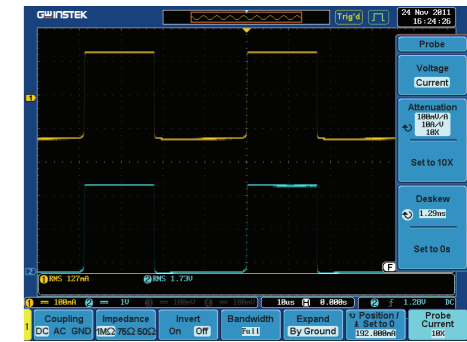
Item	Description
1	Connect the USB cable: Connect the USB cable to the USB port on the deskew fixture and the other end of the cable to the USB host port on the GDS-3000.
2	Connect the current probe: Connect a current probe (GCP-530 or GCP-1030) to the loop on the deskew fixture and the other end of the current probe to the CH1 terminal on the front panel of the GDS-3000.
3	Connect the passive probe: Connect the passive probe to the JP2 terminal on the deskew fixture and the other end to the CH2 terminal on the GDS-3000 front panel.
4	Grounding: Connect the grounding clip of the passive voltage probe to JP1 terminal on the deskew fixture.




- Note
- Demagnetize and zero the current probe. Refer to the current probe's documentation for instructions on how to do this.
 - Make sure the direction of the arrow on the current probe and that on the current loop are pointing in the same direction.

PERFORMING DESKEW PROCEDURE

Follow the deskew procedure steps below once the deskew fixture and probes are connected.

- Step
1. Press the Autoset key on the front panel of GDS-3000. 
 2. Press the CH1 key. 
 3. Press Probe from the bottom menu. 



4. Press Deskew on the side menu and use the variable knob to set the deskew time for the current probe.   

5. Press the CH2 key. 

6. Repeat steps 3 to step 4 to adjust the deskew time for the passive voltage probe.

7. Adjust the waveform output of voltage and current so that no lead or lag is shown between both waveforms to finish the deskew adjustment.



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SPECIFICATIONS

The specifications apply when the oscilloscope is powered on for at least 30 minutes under +20°C~+30°C.

Model Specific Specifications

Temperature	Ambient temperature: -10 ~ 55°C Storage Temperature: 20 ~60°C, no condensation
Humidity	Relative humidity: 93% @40°C 65% @ 41°C~60°C Storage: 90% @ 65 °C for 24 hr
Altitude	Operating: to 4,570 m (15,000ft) Storage: to 15,244 m (50,000 ft)