



07-001A
3 January, 2007

DVM METER PROBES USAGE

- I. PURPOSE:**
To provide a WARNING about the use of STANDARD METER PROBES when measuring the various voltages/resistances on the backside of the Molex connectors in the TAPI analyzers.
- II. TOOLS:**
"Fine point" test probes or "fine point" test probe adapters for the standard probes.
- III. PARTS:**
None



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

IV. PROCEDURE:

It has been found that the use of the STANDARD METER PROBES will cause damage to the various Micro Fit and other Molex connectors when a connector is probed from the rear. The STANDARD METER PROBE that comes with most DVM's has a tip that is about 2 mm (0.08 inch) in diameter. This large tip tends to distort the rear of the connector body and usually crushes the connector pin itself.

It is recommended that **ALL CONNECTORS BE PROBED** with a "fine point" or "back probe" meter probe. The "fine point/back probe" tip is about 1 mm (0.04 inch), which will not normally damage the connector body nor pin when used properly.

Some possible sources of these 1 mm probes are:

PROMONA ELECTRONICS:

http://www.pomonaelectronics.com/pdf/d6341-6342-6375_100.pdf

http://www.pomonaelectronics.com/pdf/d5144_6235_100.pdf

and FLUKE:

[http://us.fluke.com/user/products/AccessoryDetail.htm?cs_id=31714%28FlukeProducts%29&catalog_name=FlukeUnitedStates&Category=LEAD\(FlukeProducts\)](http://us.fluke.com/user/products/AccessoryDetail.htm?cs_id=31714%28FlukeProducts%29&catalog_name=FlukeUnitedStates&Category=LEAD(FlukeProducts))

[http://us.fluke.com/user/products/AccessoryDetail.htm?cs_id=34638%28FlukeProducts%29&catalog_name=FlukeUnitedStates&Category=LEAD\(FlukeProducts\)](http://us.fluke.com/user/products/AccessoryDetail.htm?cs_id=34638%28FlukeProducts%29&catalog_name=FlukeUnitedStates&Category=LEAD(FlukeProducts))

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