

Agilent

VTEP Clip Installation Procedure Applicable for Agilent *Medalist* In-Circuit Test Systems

Application Note

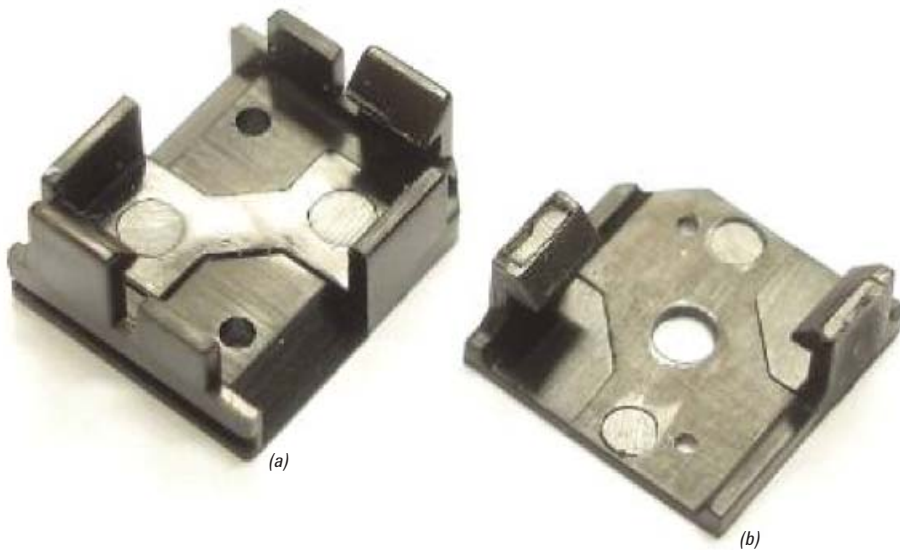
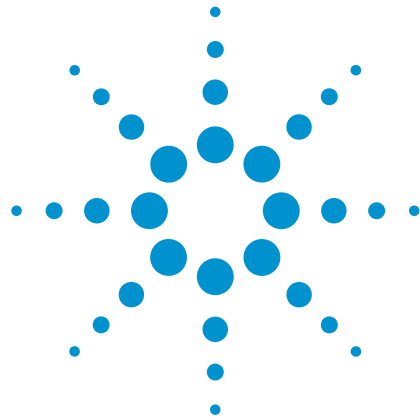


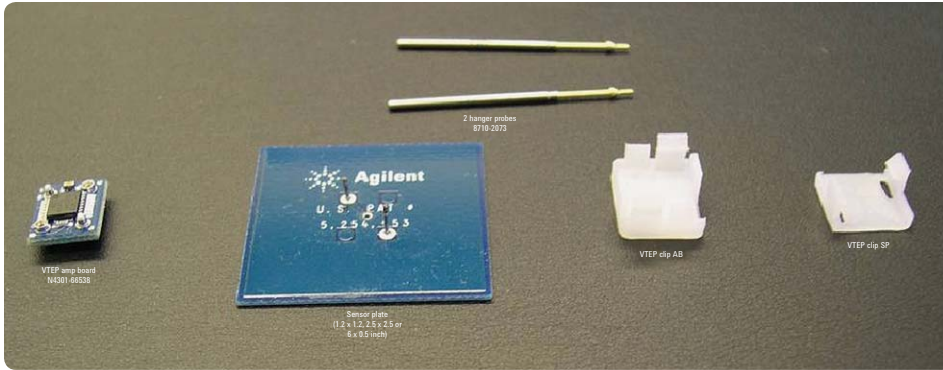
Figure 1. (a) VTEP clip AB and (b) VTEP clip SP

This guide describes the installation procedure for adding the VTEP clip to the VTEP amplifier board, sensor plate and hanger probes assembly for Agilent *Medalist* in-circuit test systems.

Parts needed

- VTEP amplifier board
- VTEP sensor plate
- Hanger probes (2 pieces)
- VTEP clip AB (AB = amplifier board)
- VTEP clip SP (SP = sensor plate)
- 3M Scotch-Weld CA40 or equivalent cyanoacrylate instant adhesive
- Isopropyl alcohol

Parts Needed



(a)



(b)

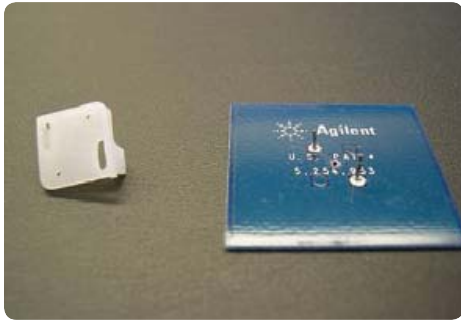
Figure 2. Supplies needed, (a) VTEP amp board, sensor plate, hanger probes VTEP clip AB, and VTEP clip SP (b) isopropyl alcohol swipe, (c) adhesive



(c)

Step 1

Clean the surfaces of the VTEP clip SP and the VTEP sensor plate with isopropyl alcohol as indicated in the pictures.

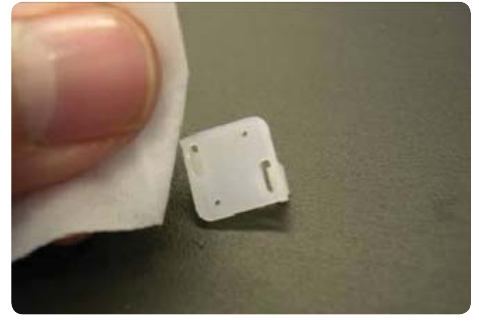


(a)

Figure 3. Wipe the surfaces



(b)



(c)

Step 2

After the cleaned surfaces have dried, apply a very small amount of instant adhesive to the sensor plate on the two locations indicated by the red circles in the pictures below.



(a)

Figure 4. Apply adhesive (as denoted by the red circles)



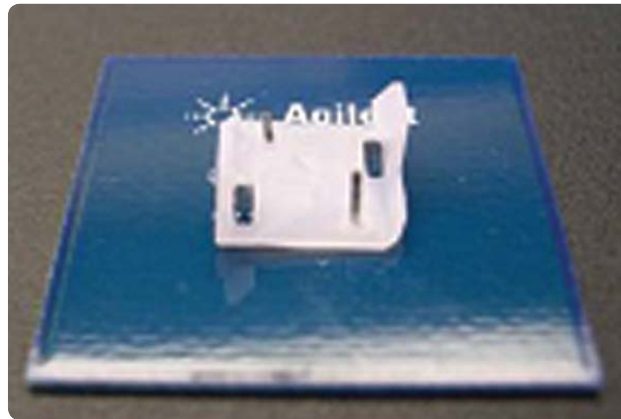
(b)

Step 3

Assemble the VTEP clip SP onto the sensor plate. Press down and hold the clip firmly for at least 30 seconds until the adhesive has cured. (Curing time depends on instant adhesive used.)



(b)



(a)



(c)



(d)

Figure 5. Assembly process

Important Note: Polarity of VTEP Clips

The VTEP clips have a chamfered corner. This corner is used to identify the signal side of the VTEP sensor plate and amp board.

When installing the VTEP clip, please make sure that the chamfer is always in the corner of the signal pin of both the VTEP sensor plate and also the VTEP amplifier board.

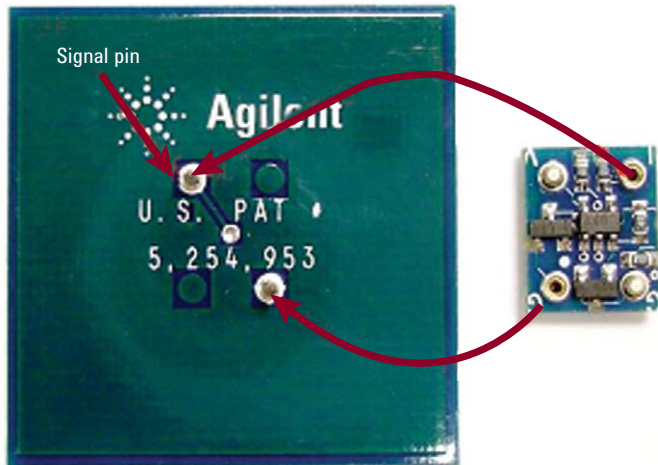


Figure 6(a). VTEP sensor plate and VTEP amp board

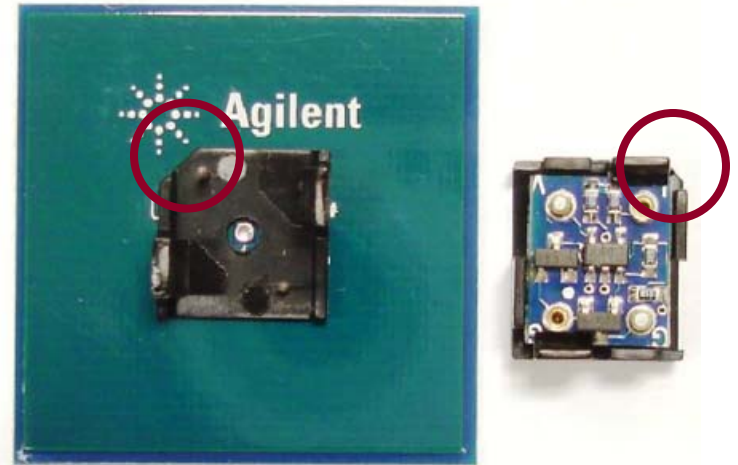


Figure 6(b). VTEP sensor plate and VTEP amp board with VTEP clips installed. Note position of chamfered corner

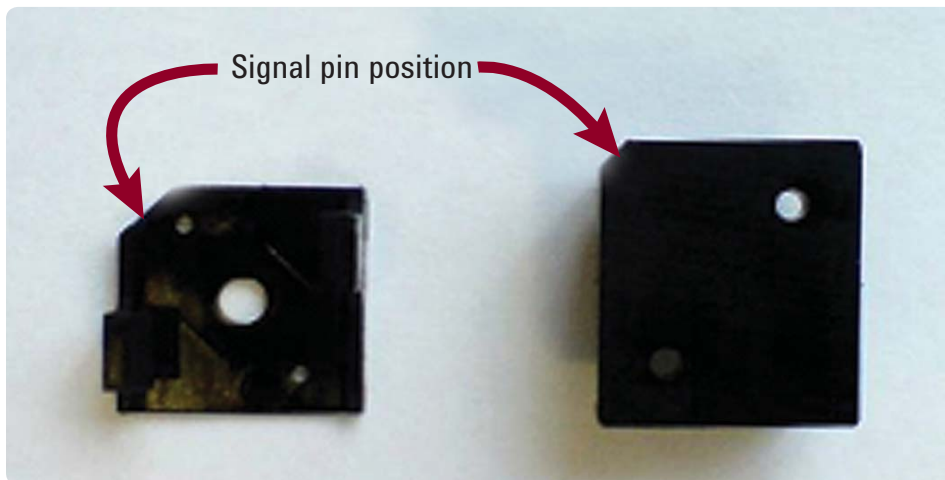


Figure 7. VTEP clip SP and VTEP clip AB

Step 4

Assemble the VTEP clip AB and the 2 hanger probes. Align the VTEP amplifier board with the hanger probes and snap in the amplifier board, so that the amplifier board is secured by the two snap hooks of the VTEP clip AB.

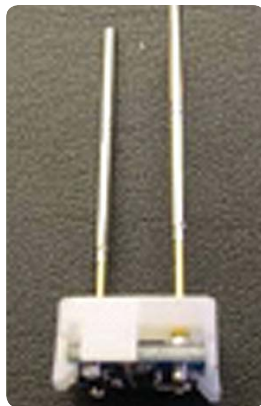
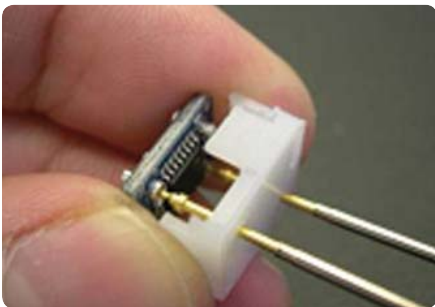
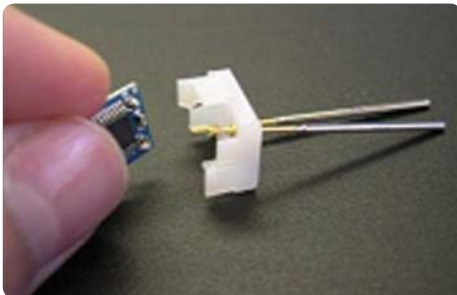
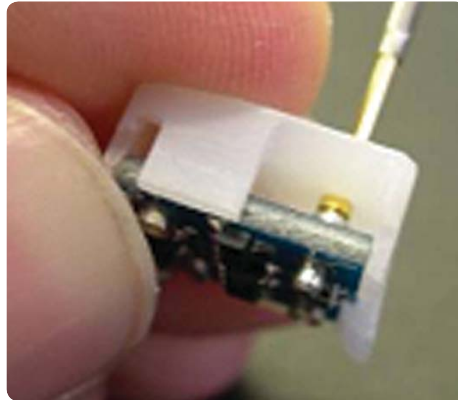
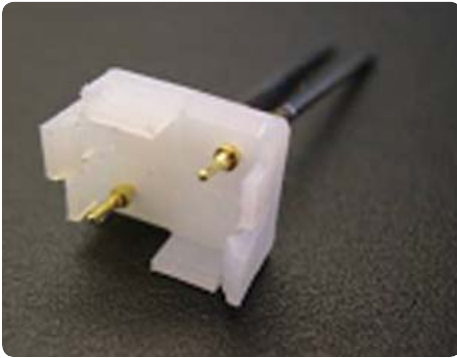
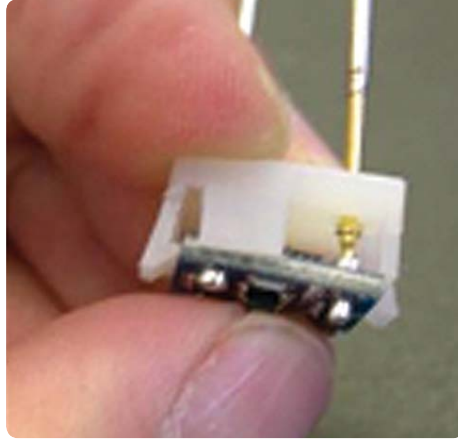
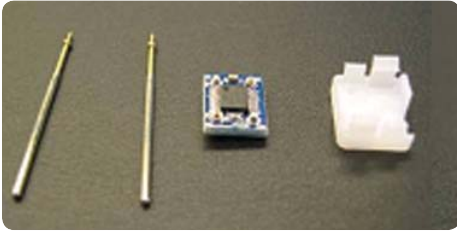
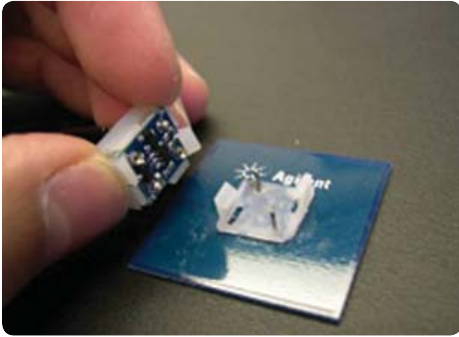


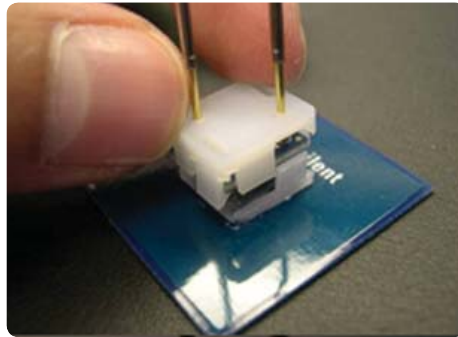
Figure 8. Final assembly

Step 5

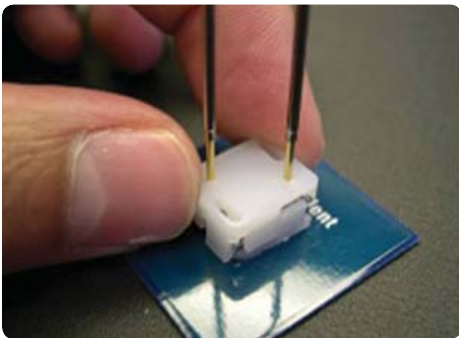
Align the probes of the sensor plate with the corresponding socket on the amplifier board. Press down the amplifier board assembly firmly on the sensor plate assembly until it snaps into place.



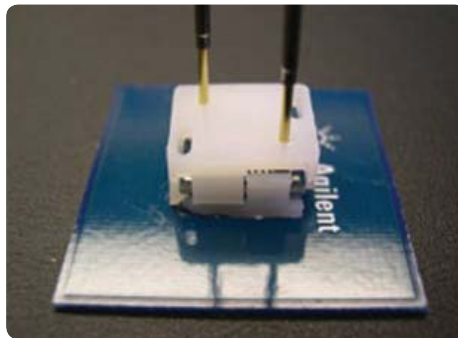
(a)



(b)



(c)

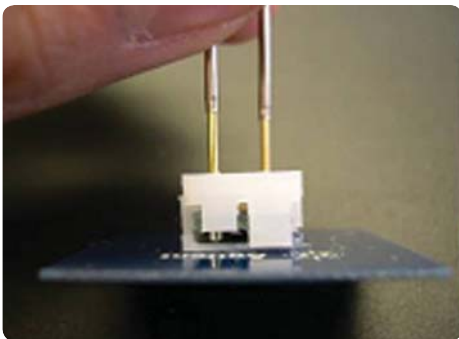


(d)

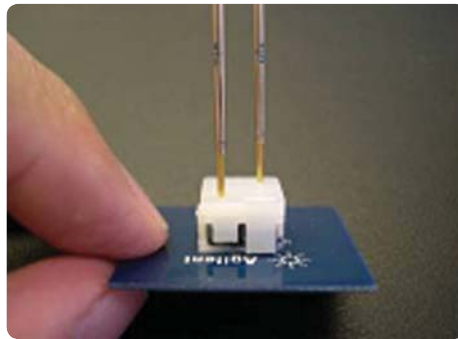
Figure 9. Final assembly

Final assembly

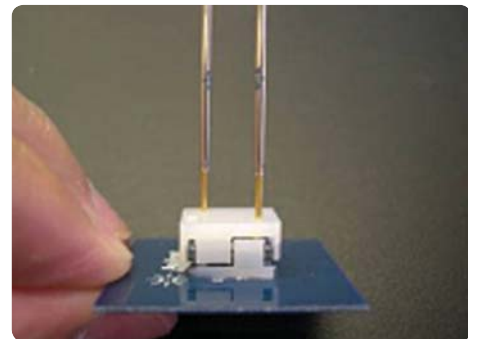
The three pictures below show the final assembly of the VTEP amplifier board and sensor plate with the clips.



(a)



(b)

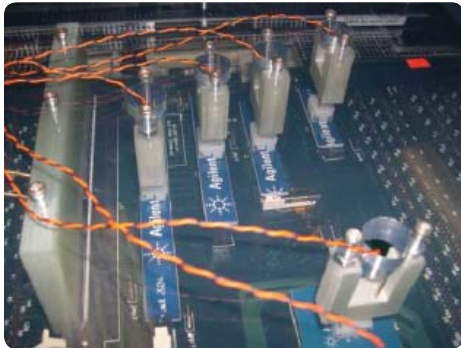


(c)

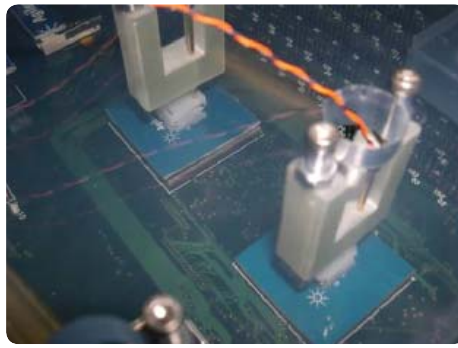
Figure 10. Final assembly

Inside the Fixture

Below are some examples of how the VTEP clip is installed inside the VTEP demo board fixture.



(a)



(b)



(c)



(d)

Figure 11. Example views inside the fixtures

Table 1. Please reference the part numbers below should you need to order any of the parts quoted in this documentation.

Part Number	Description
N4302-48300	VTEP Clip SP - for VTEP sensor plate
N4302-48301	VTEP Clip AB - for VTEP amp board
N4302-90000	Part number of this shipped documentation

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