Agilent Technologies

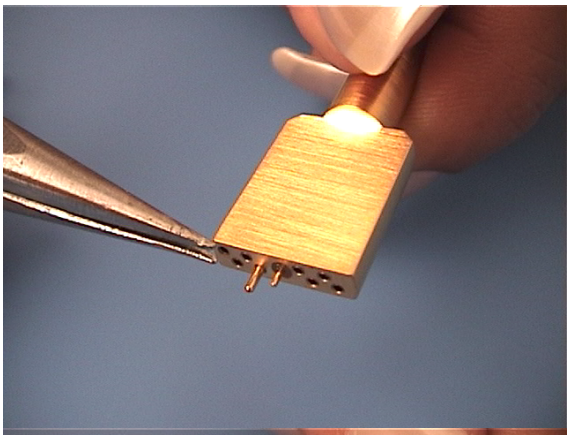
Innovating the HP Way

Pogo Pin Replacement Instructions

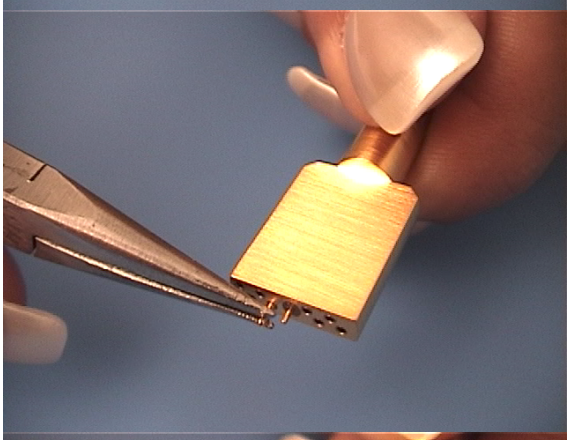
For N1020A TDR Probes with Spring Loaded Ground Contacts

This Instruction manual is for all TDR Probes that have a Spring Loaded Ground Contact Pin with a mating socket in the Probe. It will describe how to remove a pin (either to move to a new hole, or because it is broken) and then how to replace a pin into the desired hole. If you require further information please contact ICM. (See below for contact information.)

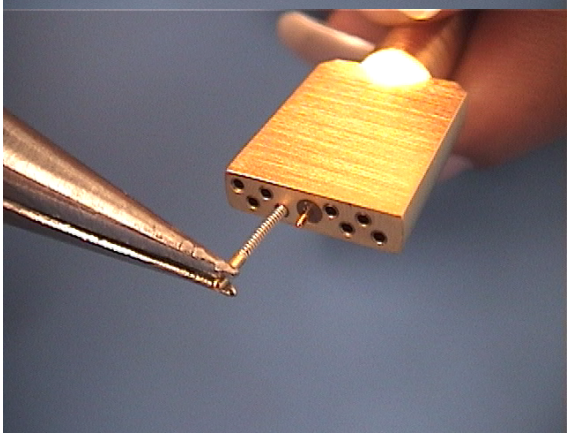
In order to remove the Spring Loaded contact pin (Pogo Pin) you need to use a set of needle nose pliers. Use care when squeezing the pin as you do not want to damage it, but you must hold fairly securely.



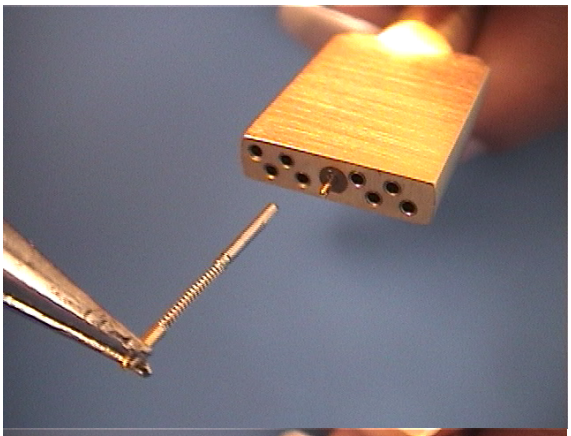
Hold the Pogo Pin firmly with the pliers and pull it STRAIGHT out from the TDR Probe.



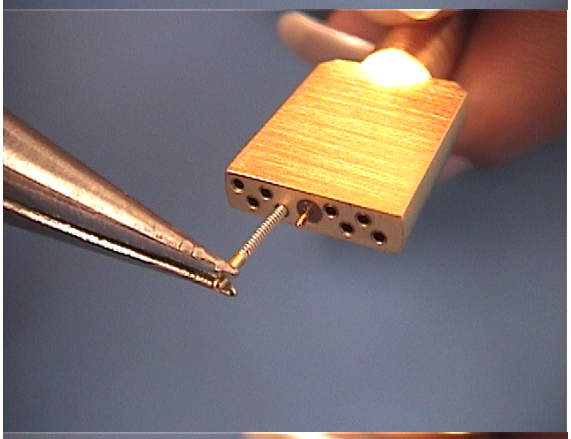
Notice that the Pogo Pin is coming out of the Probe along the axis of the mating socket. If you do not pull straight out with the pliers you could bend or break the Pogo Pin.



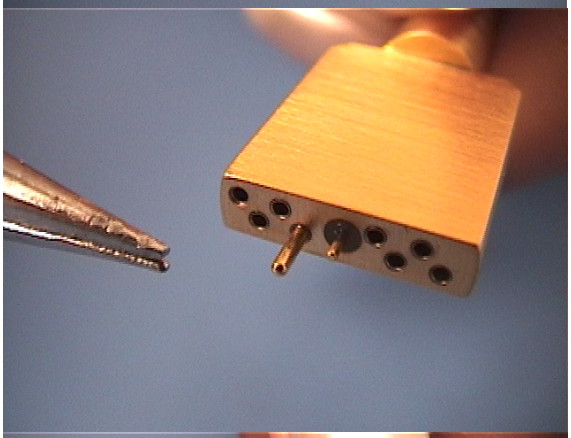
After you have removed the Pogo Pin from the Probe do a quick inspection to make sure it was not damaged during the removal. If it is ok proceed to the next step.



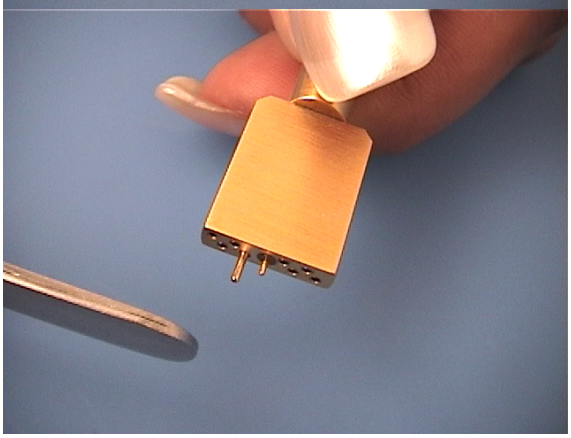
Pogo Pin Installation: Select the hole that you wish to put the Pogo Pin in. (The holes are laid out to have different RF to Ground pitches for a wider range of applications.) Again it is important to place the Pogo Pin into the socket with a pair of pliers. Notice that every effort is made to place the Pogo Pin into the socket in a straight manner along the common axis.



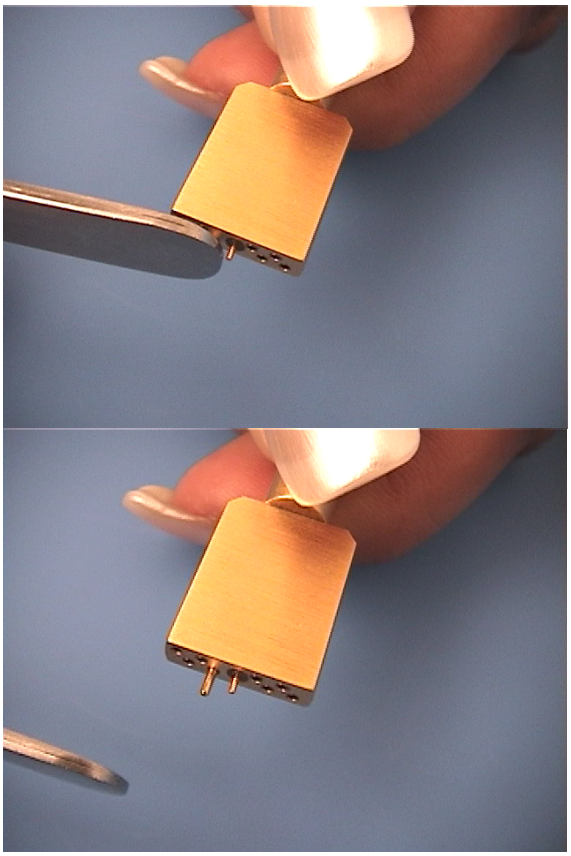
Use the pliers to push the Pogo Pin into the socket as far as it will go. Do not force it at this point.



After you have pressed the Pogo Pin into the Probe as far as you can with the sockets you will need to give it a final push to get it the rest of the way into the prove. To do this, use a solid, flat tool. (Perhaps the opposite end of a pair of tweezers as in this case.)



Push firmly with the flat tool to “pop” the Pogo Pin into the socket. You should feel a final movement in the Pogo Pin when it secures itself into the mating socket.



After pushing the Pogo Pin into the Probe you should see only the compressive part of the Pogo Pin. (It should look similar to the picture at the right.)

If you have any other questions or concerns please contact ICM.

Inter-Continental Microwave
1515 Wyatt Drive
Santa Clara, CA 95054
United States
408.727.1596 (phone)
408.727.0105 (fax)
icmfixture@aol.com
http://www.icmicrowave.com/