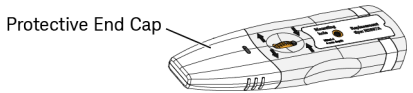
Protecting Your Browser

- Always keep the snap-on cap on the browser when not in use.



- Do not force the tip-span adjustment near the end of its range.

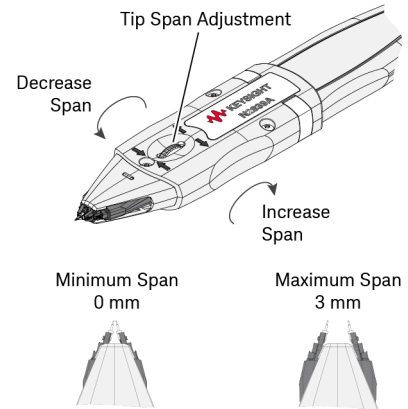


Figure 1 Adjusting the tip span

Using Your Browser

- Use a microscope to familiarize yourself with handling the browser.
- When probing, compress the probe tips by applying gentle pressure along the probe's axis. When possible, hold the browser vertical and perpendicular to the circuit board.
- For hands-free stability, use an N2784/5A or N2787A probe positioner. Or, construct a custom holder using the mounting hole shown in Figure 2 (M2 x 4 mm thread screw).

WARNING **As the spring-loaded tips are sharp, handle the N2839A with care to avoid injury.**

CAUTION When a tip is damaged, do not continue probing. Failure to replace the tip can result in permanent damage with the tip lodged into the tip arm's socket.

CAUTION To avoid damaging the browser's tips, do not apply a side load to the browser.

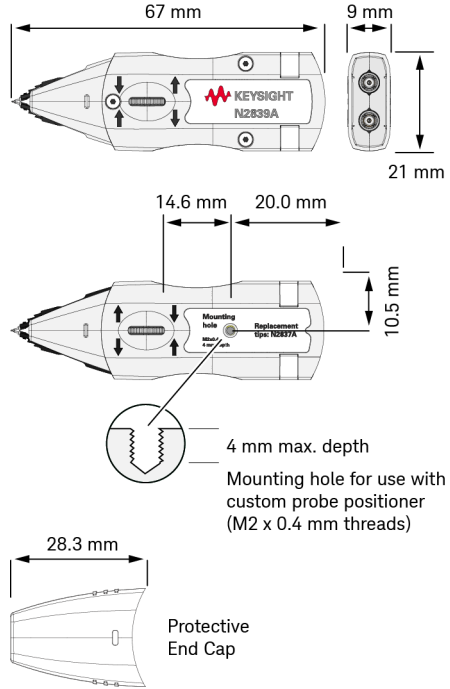


Figure 2 N2839A Dimensions

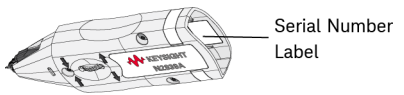
Accessories

The following table shows the accessories supplied with the probe. To purchase additional tips, order the N2837A kit that contains 20 spring-loaded tips and 20 straight tips

Table 1 Supplied Accessories

Accessory	Qty
Protective end cap	1
Spring-loaded probe tips	20
Straight probe tips *	20
Tweezer for replacing tips	1

* The N2839A browser with a serial number starting with US5900 or higher is shipped with both straight and spring-loaded tips. Browsers with a serial number less than US5900 are shipped with only spring-loaded tips.



NOTE Spring-loaded tips are less susceptible to vibration or movement than straight tips and provide more stable spring-loaded contact. Spring-loaded tips work best when these are either partially or fully compressed and are protected against over compression damage.

Straight tips are rigid but provide more robust contact.

Available Videos

www.keysight.com/find/N2839A

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Colorado Springs, CO 80907
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N2839-97003

www.keysight.com

Replacing the Probe Tips

Extra tips are provided with the browser.

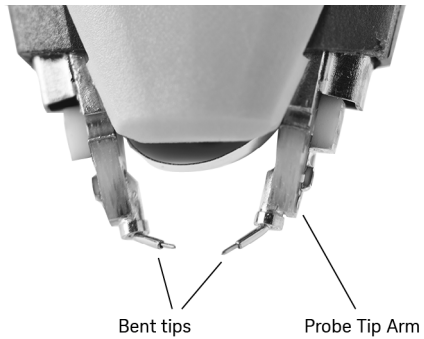

Figure 3 Example of a damaged tip

1 Use the thumb wheel to adjust the tip span to its maximum range.

2 To remove an existing tip, use your fingers or the supplied ESD-safe tweezers. Gently pull the tip straight out of the browser. Do not twist or turn the tip.

3 Pick up a new tip using the supplied tweezers. Identify the correct end to insert into the tip arm. See Figure 4. The end of the tip that has the widest diameter is inserted into the socket on the tip arm.

4 Using the tweezers, align the new tip with the browser's tip socket and gently insert the tip while avoiding any twisting motion.

CAUTION The tip arm can be damaged if too much force is applied when inserting the tip. The tip is held in the tip arm by friction and not by a snap or detent connection.

5 To seat the tip, hold the probe vertically and gently press the tip on a hard surface, such as the tweezers.

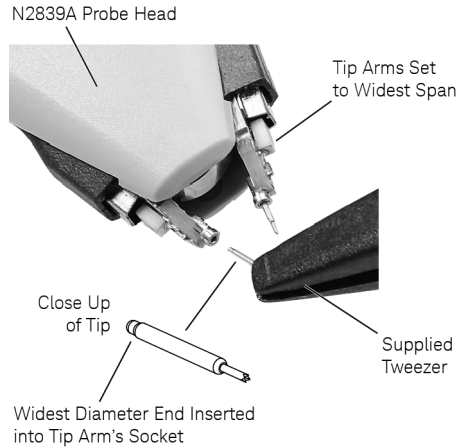

Figure 4 Inserting a tip

Quick Reference

N2839A InfiniiMax II Differential Browser

The N2839A differential browser is designed for use with the following Keysight InfiniiMax probe amplifiers.

- MX0020A/21A/22A/24A/25A InfiniiMax Ultra Series
- MX0023A InfiniiMax RC
- 1168B/9B InfiniiMax II

The maximum bandwidth supported by N2839A is 21 GHz. For any combination of N2839A with a probe amplifier, the applicable bandwidth is the lesser of the supported bandwidths of N2839A or probe amplifier.

For more information, download your probe amplifier's user's guide from the probe amplifier's web page on www.keysight.com.

CAUTION The browser's tips and span control are small and fragile to deliver high-RF performance. As a result, the browser can be easily damaged by improper handling and probing techniques.