

Agilent N2784A/N2785A Probe Positioners



User's Guide

Notices

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Thank you for purchasing an Agilent probe positioner. This user's guide will show you how to properly use your positioner and its accessories.

Models

There are two probe positioner models available. The N2785A model comes with two positioning arms ([Figure 1](#)) while the N2784A model comes with a single positioning arm.

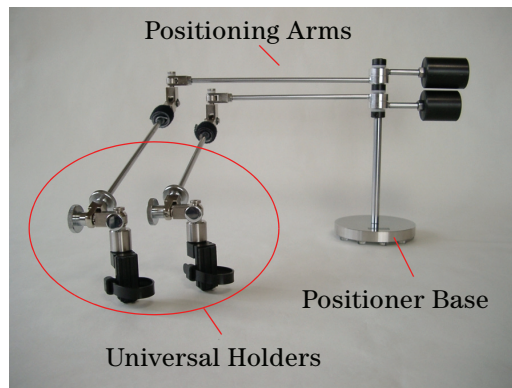


Figure 1 The Agilent N2785A probe positioner with part descriptions to use for reference with this user's guide

Installation

Place your probe/probe head against one of the universal holders, aligning it with the rubber ribs. Then wrap the releasable probe tie around the probe head (Figure 2).

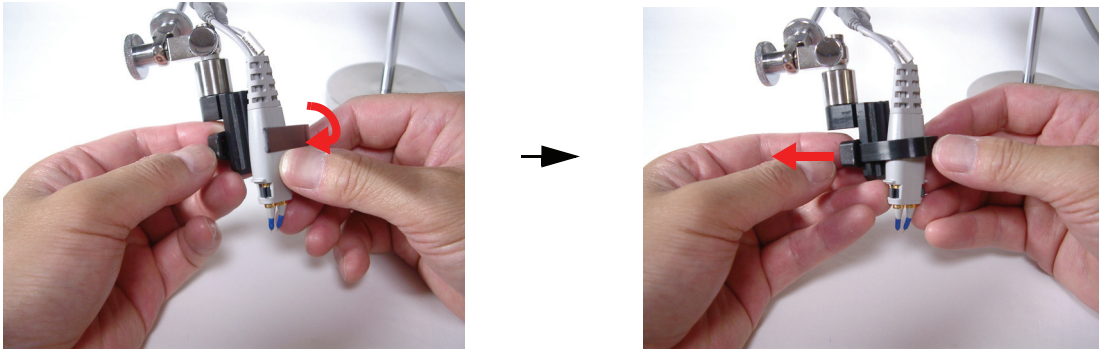


Figure 2 Wrapping the probe tie around the probe

Once the probe tie is in place, tighten it down to secure the universal holder to the probe head (Figure 3)

CAUTION

Do not over tighten the probe tie or you could damage the probe.

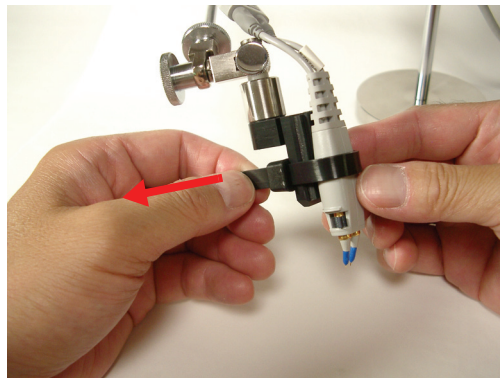


Figure 3 Tightening the probe tie around the probe

The probe ties are highly durable, but in case of wear, please replace them with the provided probe ties. To replace a probe tie, loosen the screws labelled **B** in [Figure 4](#) to unfasten the worn probe tie. You can then replace the probe tie with a new one by reversing these steps.

You can push the pawl labelled **A** ([Figure 4](#)) to release the probe or probe head from the universal adapter.

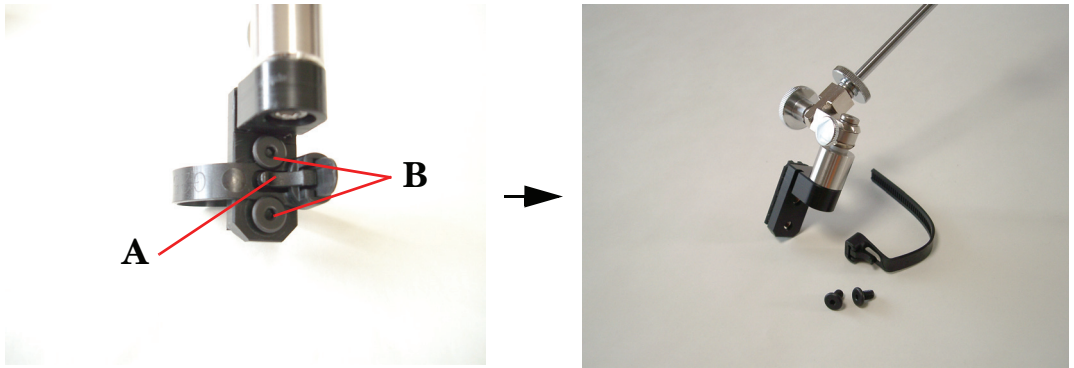


Figure 4 Unfastening the releasable probe tie

Probe Angle Adjustment

The angle of your probe can be adjusted by loosening and then tightening three knobs on the positioner arm/universal holder. Figure 5 shows the location of these three knobs.

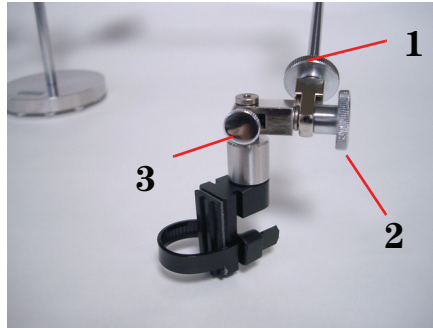


Figure 5 Location of the three knobs that can be used to adjust your probe's angle

CAUTION

If knobs (1) and (2) are loose, there is a possibility that your probe may fall over. Make sure these knobs are securely fastened during any measurements.

Figure 6 shows a series of pictures displaying some of the axes that can be rotated about by loosening and tightening the three knobs shown in Figure 5.

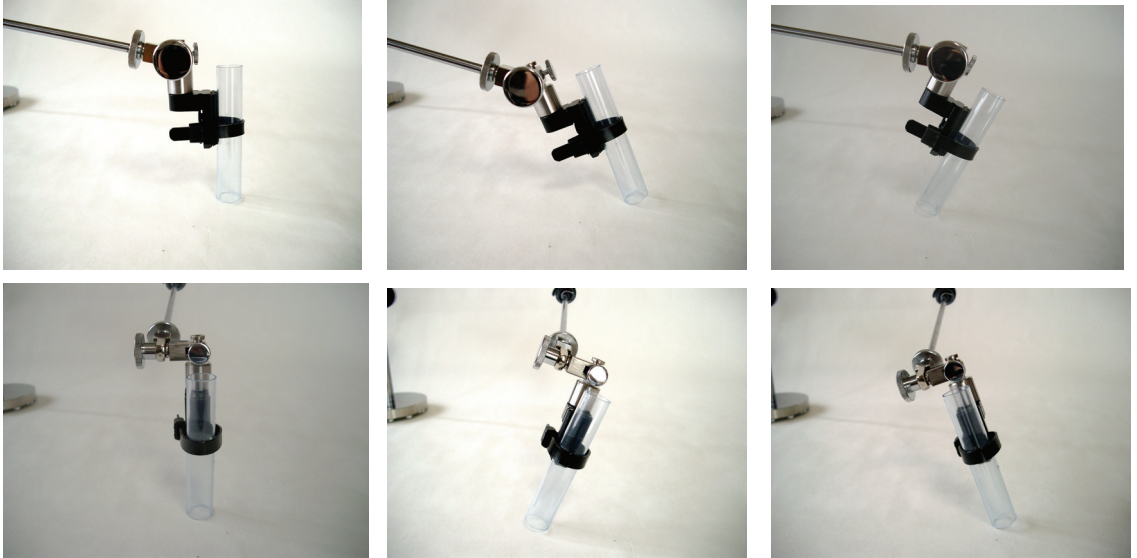


Figure 6 Series of pictures showing various rotation axes

Knob (3) may be left loose when the probe is used vertically. If the probe is to be used with some slope against the board then it must be tightened as well.

Accessories

Your N2784A/N2785A probe positioner comes with several accessories. These include:

- Arm strap
- 3x magnifying glass
- Probe rest

You can use the arm strap to fix your probe cables or to secure the positioning arms and universal holders to the probe positioner's body during storage as shown in [Figure 7](#).



Figure 7 Using the arm strap to secure the positioning arms and universal holders

The magnifying glass can be attached to the probe positioner as shown in [Figure 8](#).



Figure 8 Attaching the magnifying glass

CAUTION

Do not place the magnifying glass in a location where the sun is striking it directly.

The probe rest is a piece of antistatic polyurethane that can be used to rest your probe or universal holder on when not in use ([Figure 9](#)).

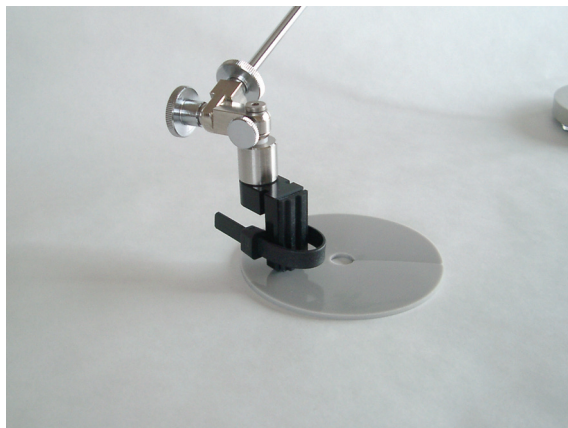


Figure 9 An example of placing the universal holder on the probe rest

Ordering Replacement Accessories

To replace missing accessories, order the N2785-68701 support kit. The accessories included in this kit are:

- Probe rest
- Magnifying glass
- Probe tie
- Arm strap
- Screws for retention of probe tie

Compatible Probes

The probe positioners are compatible with the following Agilent probes:

- 1130A/1131A/1132A/1134A and 1168A/1169A InfiniiMax active probes with single-ended or differential browser
- 1156A/1157A/1158A active probes
- 1141A/1153A active probes
- 1144A active probe
- 1007x passive probes
- 116xA passive probes
- N2862A/N2863A passive probes
- 104xx passive probes

In addition to these specific probes, the probe positioners will work with most other Agilent probes as well as probes from other vendors.

Dimensions

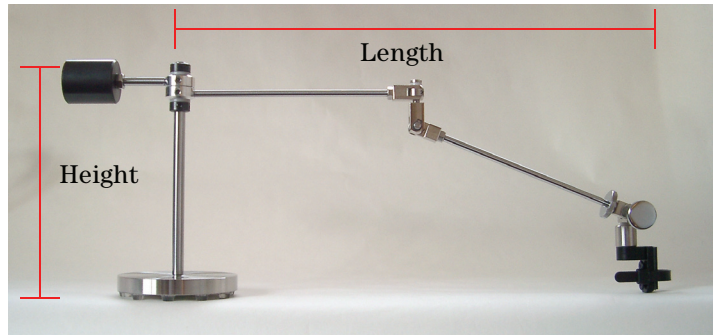


Figure 10 Height and length definitions

<i>Arm Length</i>	<i>320 mm</i>
<i>Arm Height</i>	<i>158 mm</i>
<i>Weight</i>	<i>N2784A - 850 g</i> <i>N2785A - 1.25 kg</i>

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