

# Agilent N2725A Benchtop Rack Assembly

*Installation Instructions for Benchtop Rack Assembly  
and Oscilloscope Security Clamp*



## Unpacking List

- Base unit, two straps, and connecting hardware.
- Tamper-resistant T-15 Torx bit for drive.<sup>1</sup>
- Oscilloscope security clamp.
- These installation instructions.

**Notice:** *The Benchtop Rack Assembly and Oscilloscope Security Clamp are designed to help you neatly stack your Agilent Basic Instruments and make it difficult for someone to remove them from your workspace. Agilent makes no claims regarding theft prevention. For added security, attach a locking cable to the rack assembly and secure the cable to your workbench (a locking cable can be purchased from your local computer reseller or electronics parts supplier).*

## Installation Instructions for Benchtop Rack Assembly

*To install the Oscilloscope Security Clamp, see page 2.*

1. Detach the two straps from the base unit by removing all four screws.
2. Refer to Figure 1 on page 3 to determine the appropriate stacking configuration for your instruments. Note that this rack kit is designed for use only with Agilent Technologies instruments of the type shown.
3. (*Benchtop Screw-Mounting Only*) Place the base unit on the benchtop with the keyhole slot at the front and the protruding tab at the rear. Using the base unit as a template for drilling, first mark the center of the hole in the tab at the rear. Then, mark the center of the hole in the front side of the keyhole slot.
4. (*Benchtop Screw-Mounting Only*) After double-checking your placement on the benchtop, drill the two holes as marked.
5. If you are using an Agilent E3614A, E3615A, E3616A, E3617A, E3620A, or other product of similar size, you can attach the base unit to the benchtop at this time. Use two #8 or similar wood screws<sup>2</sup>.

For all other instruments, install only the front (keyhole) screw at this time. Be sure to leave a 3/8" gap between the benchtop surface and the bottom of the screw head. The rear screw will be installed later (see step 9).

<sup>1</sup> You can order replacement bits from McMaster-Carr (<http://www.mcmaster.com/>) – Part Number 7377A45.

<sup>2</sup> You can order tamper-resistant screws from McMaster-Carr (<http://www.mcmaster.com/>) – Part Number 95638A197.

**Caution:** Do not attempt to lift the entire rack assembly using the carrying handle of the top instrument. The handle is designed to support the weight of one instrument only. Be sure that the handle is folded under the instrument as instructed below.

6. To install instruments with a handle (such as the Agilent 33120A, 34401A, or 34970A) at the bottom of the stack, refer to *Configuration A* in Figure 1. Rotate the handle away from the bottom of the instrument and place in the base unit with the protruding tab at the rear. Rotate the handle back until flush with the bottom of the instrument.

For short instruments (such as the Agilent E3610A, E3611A, E3612A, or E3630A), place them at the top of the stack as shown in *Configuration B* in Figure 1.

For instruments such as the Agilent E3614A, place them at the bottom of the stack as shown in *Configuration C* in Figure 1.

For taller instruments (such as the Agilent E3631A, E3632A, E3633A, or E3634A), place them at the bottom of the stack as shown in *Configuration D* in Figure 1. To keep the base unit flush against the bottom of the instrument during assembly, place the base unit on a temporary spacer such as a book.

7. If you are stacking three instruments or fewer, you may need to shorten the straps to ensure that they don't interfere with the mounting surface. To shorten a strap, make a bend at the scribe line and move back and forth until the excess breaks off.
8. Attach the straps to base unit using a flat washer, helical washer, and screw (in that order) while compressing the foam. Torque to approximately 21 oz-in.
9. (*Benchtop Screw-Mounting Only*) Position the assembled rack of instruments over the keyhole slot and slide it to the rear to engage the front screw installed in step 5. Install the rear screw into the benchtop surface (use a #8 or similar wood screw).

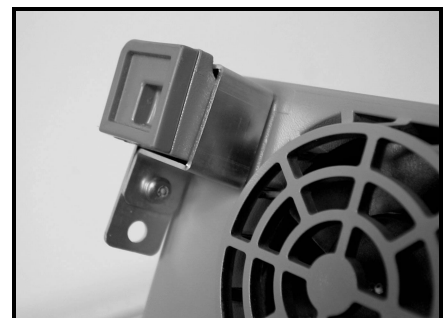
*Cleaning Instructions:* If the rack assembly requires cleaning, disconnect power from all installed instruments and clean the rack with a mild detergent and water.

*Operating Environment:* The rack assembly is designed to be used in an environment compatible with the installed instruments. For more information, refer to the documentation provided with the instruments.

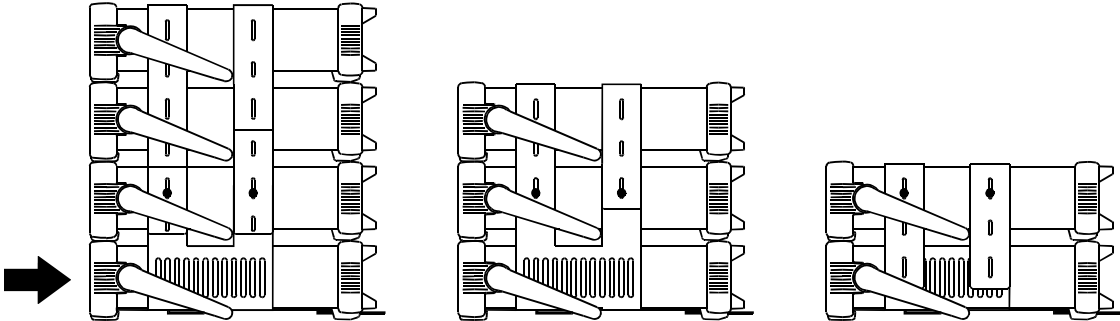
## Installation Instructions for Oscilloscope Security Clamp

*Note that the security clamp is designed for use only with Agilent 54600-Series Oscilloscopes.*

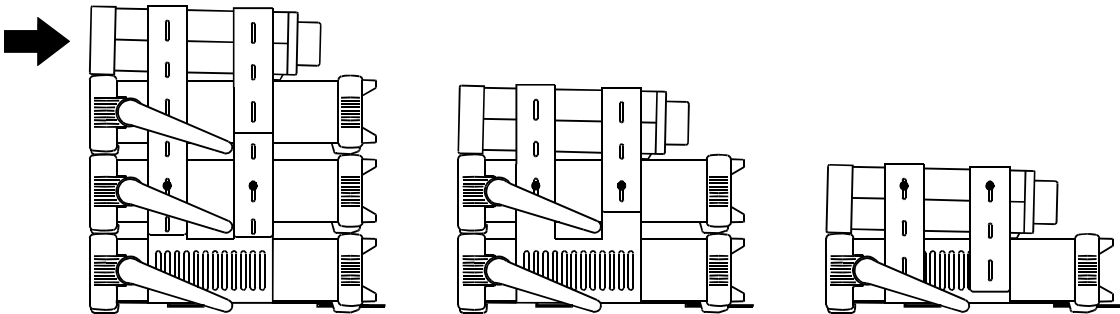
Attach the security clamp to one of the oscilloscope's rear feet as shown. Attach a locking cable to the security clamp and secure the cable to your workbench (a locking cable can be purchased from your local computer reseller or electronics parts supplier).



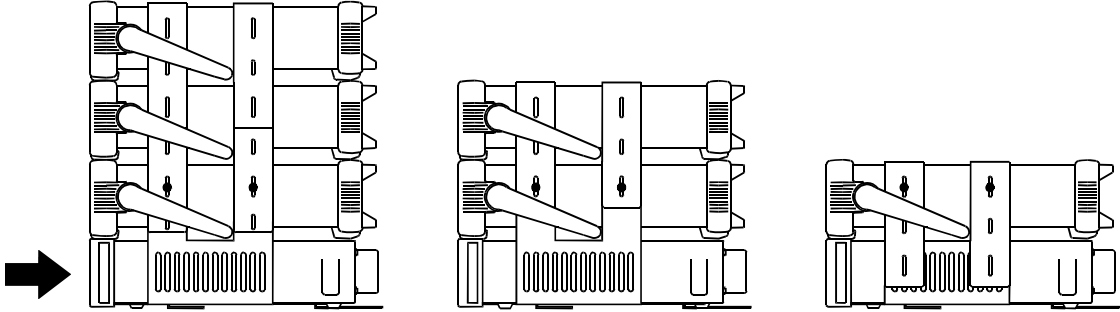
**Configuration A: Agilent 34401A or Similar on Bottom of Stack.**



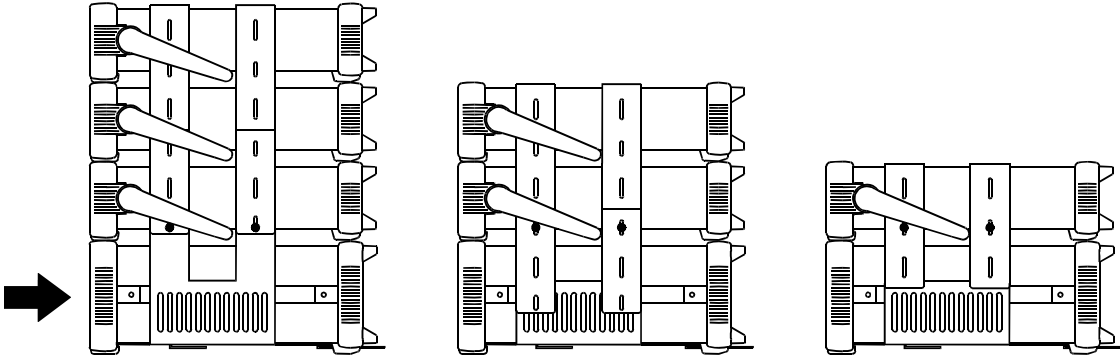
**Configuration B: Agilent E3610A or Similar on Top of Stack.**



**Configuration C: Agilent E3614A or Similar on Bottom of Stack.**



**Configuration D: Agilent E3631A or Similar on Bottom of Stack.**



**Figure 1. Rack Mounting Configurations**

Copyright © 1999,2001  
Agilent Technologies Inc.  
All rights reserved

Printed in U.S.A.  
Edition 2  
February 2001 E0201