



**Agilent N2902A
9000 Series
Oscilloscope Rack
Mount Kit**

Installation Guide



Agilent Technologies

Notices

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Agilent Technologies, Inc.
395 Page Mill Road
Palo Alto, CA 94303 USA

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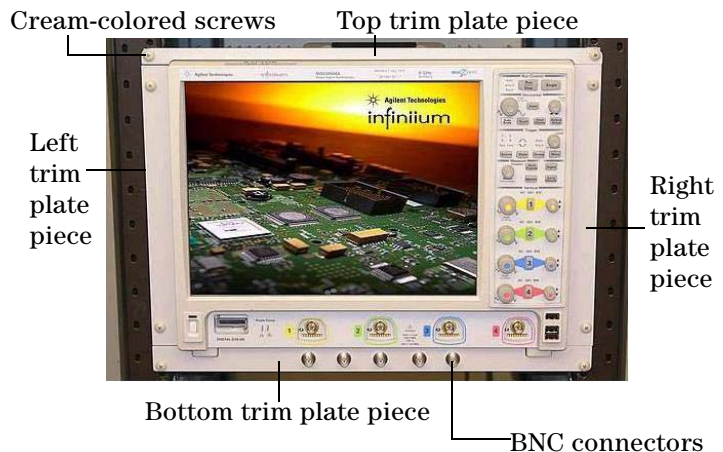
In This Guide...

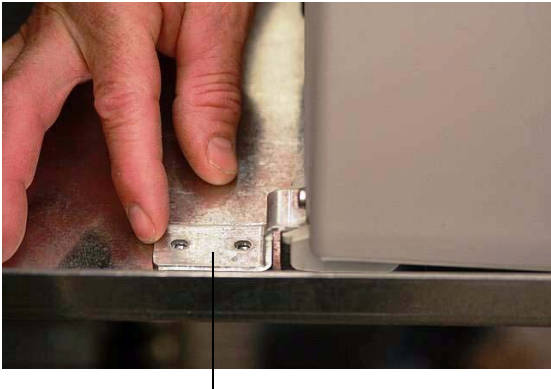
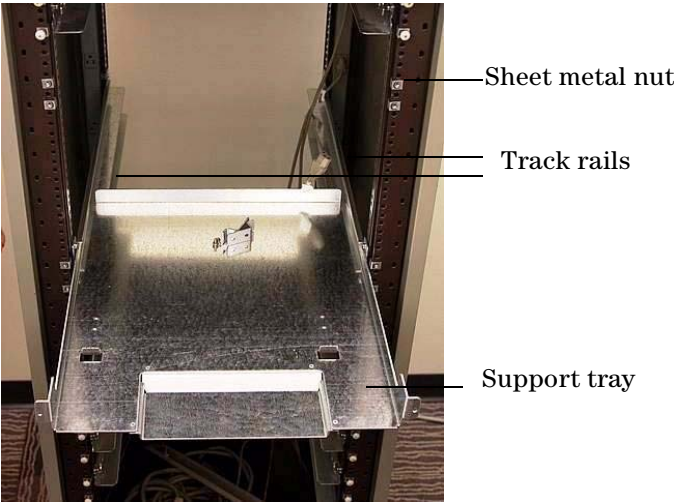
This guide contains instructions for installing the 9000 Series Oscilloscope Rack Mount Kit. The rack mount kit provides a support shelf and hardware for mounting Agilent 9000 Series oscilloscopes into Electronic Industries Association (EIA) standard 19-inch (487-mm) rack cabinets.

Included Parts

The rack mount kit includes the following parts (additional quantities of some of these items were included for your convenience):

- Support tray
- Trim plate (consists of a bottom piece, top piece, and two side pieces)
- BNC connectors to be inserted into bottom trim plate
- Black rubber stoppers to plug holes in bottom trim plate if the hole is not being used for a BNC connection
- Two track rails
- Two feet brackets
- Sheet metal nuts
- Three sets of screws (cream-colored Pan head screws for attaching the trim plate pieces, metallic Pan head screws for attaching the side rails to the rack, and metallic T-20 TORX screws for attaching the feet brackets to the support tray)



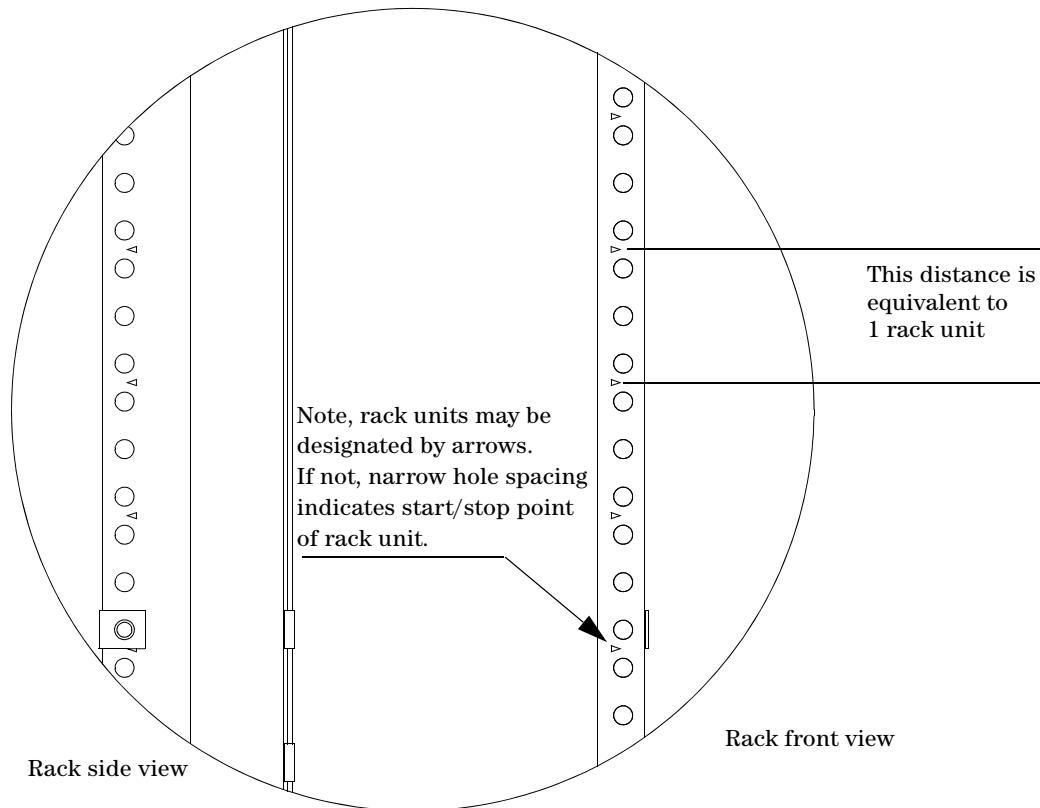


Installation

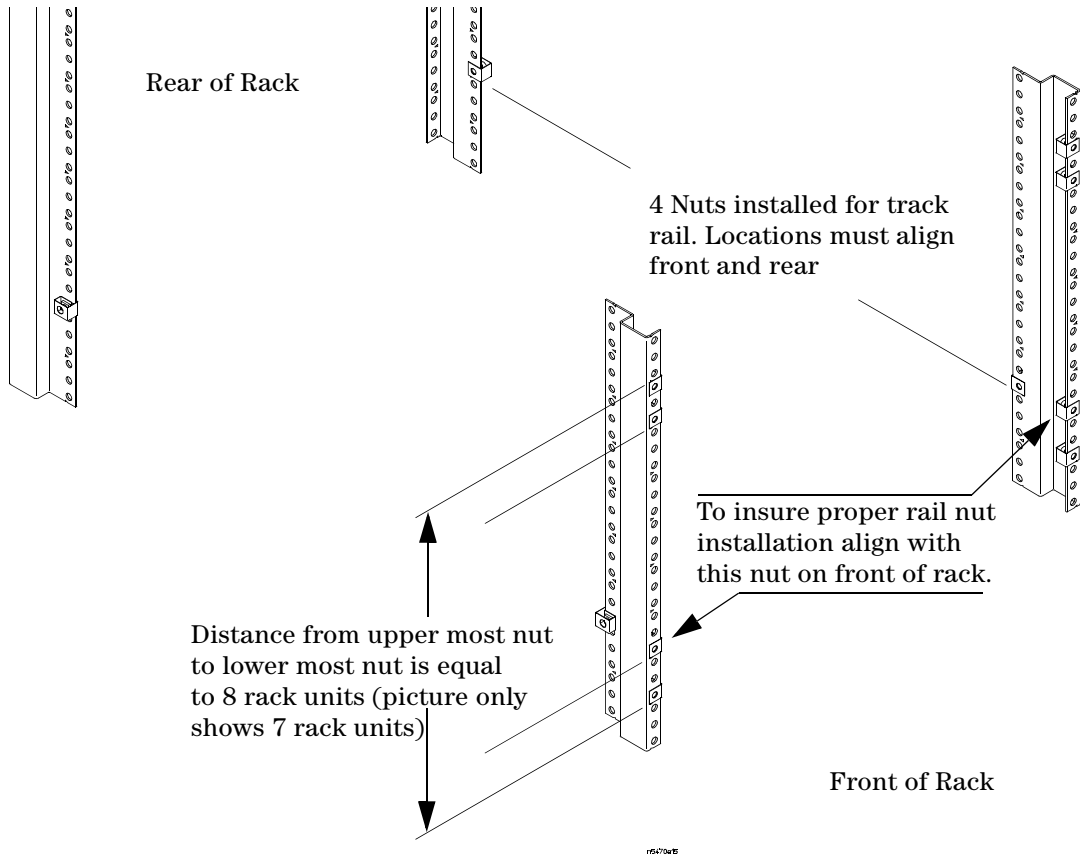
You will need the following tools to install the rackmount kit:
T20 TORX driver and a #2 Phillips screwdriver.

Preparing the Rack

- 1 To prepare the rack for sheet metal nut installation, 8 rack mount units must be designated for use. The diagram below shows how to determine a rack unit.

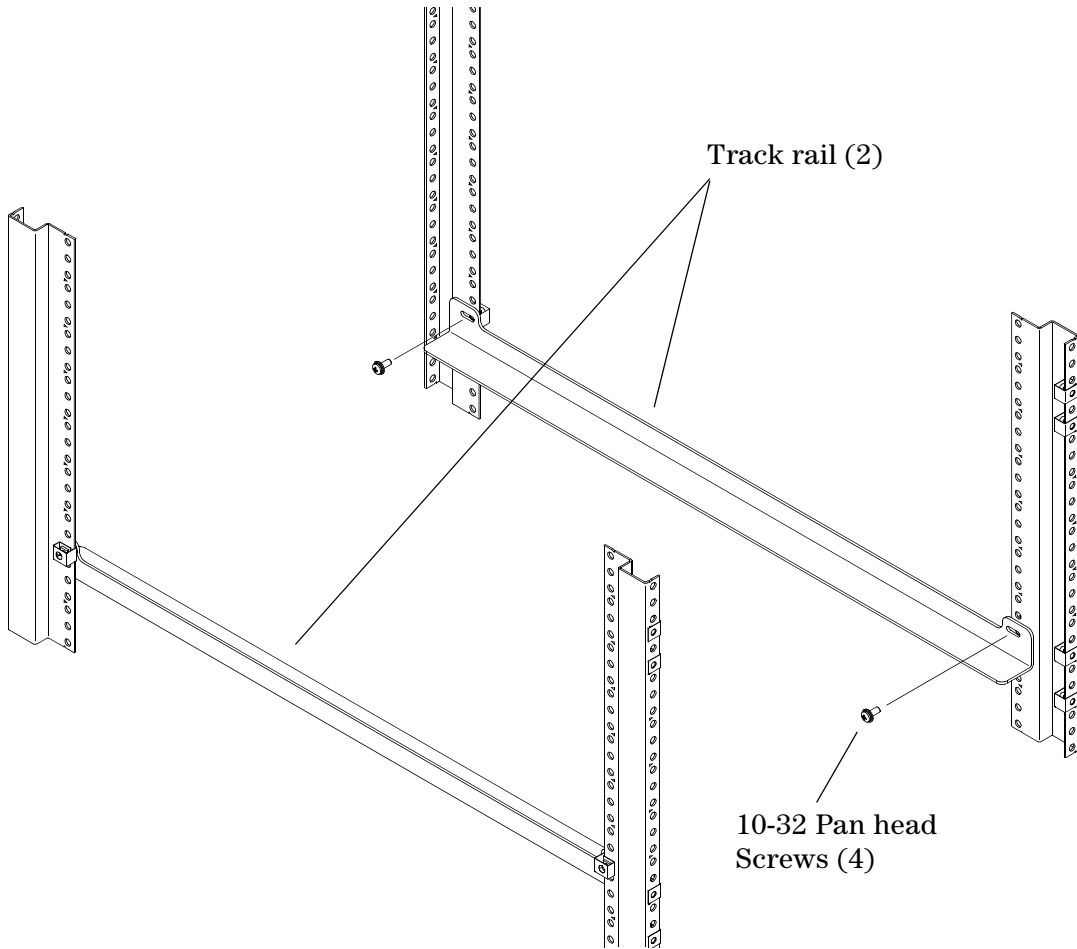


Installation



- 2 The above graphic indicates proper locations for sheet metal nut locations. Note to insure a level installation, the same 8 rack unit locations are used on each vertical rack piece.
NOTE: The picture only shows 7 rack units.

3 Install track rails to rack using the 4 10-32 pan head screws provided.



Installation

Installing the Oscilloscope into the rack

- 4 Slide the support tray onto the rails, but do not slide completely into the rack. Instead leave it slightly extended so you can place the oscilloscope on top of it. (NOTE: Do not leave the support tray extended too much or else it may not support the oscilloscope when you place it on top.)



- 5 Place the oscilloscope on the support tray. There are raised tabs in the support tray. The front side of the oscilloscope's rear feet should rest against these tabs as shown below.



The front of the scope's rear feet should rest against these tabs

- 6 Now attach cables to the side panel BNC connectors on the oscilloscope and route them under the oscilloscope through the indentation in the support tray (later, these cables will be connected to the bottom trim plate BNC connectors so you can have access to these BNCs once the oscilloscope is installed in the rack). Let the end of the cable(s) that passes under the oscilloscope just dangle for now. Step 9 will have you attach the cable(s) to the bottom trim plate BNCs.

Also plug the power cord into the oscilloscope and route it through the back so you can plug it into a power outlet after installation.

- 7 Secure the rear of the oscilloscope to the support tray with the feet brackets. There is a notch on the upper back edge of each oscilloscope rear foot. Place the bracket in this indentation and then line up the holes with the holes in the support tray. Use two T20 TORX screws to secure and then repeat for the other rear oscilloscope foot (see next page for pictures).

Installation



- 8 The oscilloscope and support tray should now look like the following picture except you may have cables connected to the side panel BNCs if you chose to attach them.



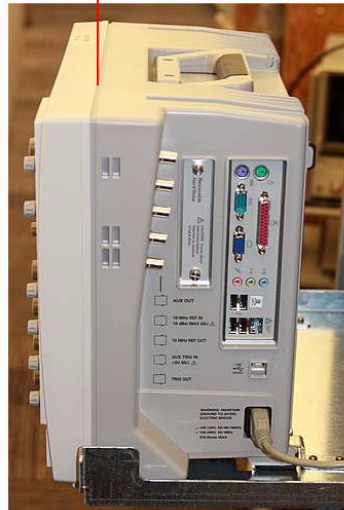
- 9 Next, push the oscilloscope / support tray into the rack so it is no longer extended. Then connect the other end of each of the cables you routed under the oscilloscope to one of the BNC connectors in the bottom trim plate piece as shown below. If you do not want to install all five BNC connectors into the openings in the bottom face plate then you can fill the hole(s) with the supplied rubber stoppers.



Installation

- 10 Attach the bottom trim plate piece to the rack using two cream-colored Pan head screws. Then attach the side trim plate pieces using two cream-colored Pan head screws each (NOTE: When attaching these side face plate pieces, be sure the screw holes are located towards the outside).
- 11 Attach the top trim plate piece to the rack with two cream-colored Pan head screws, being sure that it slides into the notch on the top of the oscilloscope (see picture below).

This is the notch that the top trim plate fits into



The oscilloscope is now fully installed and should look like the following picture.



Dimensions

The tables below show the approximate dimensions for the various rack mount trim plate pieces.

Side trim plate pieces

Height	30.8 cm (12.125 inches)
Width	2.86 cm (1.125 inches)

Bottom trim plate piece

Width	48.3 cm (19 inches)
Height	3.05 cm (1.2 inches)

Top trim plate piece

Width	48.3 cm (19 inches)
Height	1.59 cm (0.625 inches)

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