



**RM3  
Rackmount Kit  
Instructions**

**Warning**

The servicing instructions are for use by qualified personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to all safety summaries prior to performing service.



Copyright © Tektronix. All rights reserved. Licensed software products are owned by Tektronix or its subsidiaries or suppliers, and are protected by national copyright laws and international treaty provisions. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specifications and price change privileges reserved.

TEKTRONIX and TEK are registered trademarks of Tektronix, Inc.

## **Contacting Tektronix**

Tektronix, Inc.  
14150 SW Karl Braun Drive  
P.O. Box 500  
Beaverton, OR 97077  
USA

For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit [www.tek.com](http://www.tek.com) to find contacts in your area.

---

# Table of Contents

Important safety information .....	iii
Service safety summary .....	iii
Terms in the manual .....	iii

## Kit description

Products .....	1
Minimum tool and equipment list .....	1
Kit parts lists .....	1
Warranted characteristics .....	3
Clearance requirements .....	3

## RM3 Installation instructions

Assemble the rack mount on the instrument .....	5
Install the instrument into the rack .....	9

## Dimensions

Front panel dimensions .....	11
Rear panel dimensions .....	12



---

# Important safety information

This manual contains information and warnings that must be followed by the user for safe operation and to keep the product in a safe condition.

## Service safety summary

The *Service safety summary* section contains additional information required to safely perform service on the product. Only qualified personnel should perform service procedures. Read this *Service safety summary* and the *General safety summary* before performing any service procedures.

**To avoid electric shock.** Do not touch exposed connections.

**Do not service alone.** Do not perform internal service or adjustments of this product unless another person capable of rendering first aid and resuscitation is present.

**Disconnect power.** To avoid electric shock, switch off the product power and disconnect the power cord from the mains power before removing any covers or panels, or opening the case for servicing.

**Use care when servicing with power on.** Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

**Verify safety after repair.** Always recheck ground continuity and mains dielectric strength after performing a repair.

## Terms in the manual

These terms may appear in this manual:



---

**WARNING.** *Warning statements identify conditions or practices that could result in injury or loss of life.*

---



---

**CAUTION.** *Caution statements identify conditions or practices that could result in damage to this product or other property.*

---



# Kit description

This document supports Tektronix 3 Series MDO instrument. The rackmount kit is a collection of parts that, once installed, configure the instrument for mounting into a standard 19-inch equipment rack.

## Products

This rackmount kit supports the 3 Series MDO instruments.

## Minimum tool and equipment list

Required tools and equipment	Part number
Screwdriver, Phillips, #2	Standard tool
Wrench, 3/8"	Standard tool
Screwdriver, T-20 Torx	Standard tool
Screwdriver, T-10 Torx	Standard tool

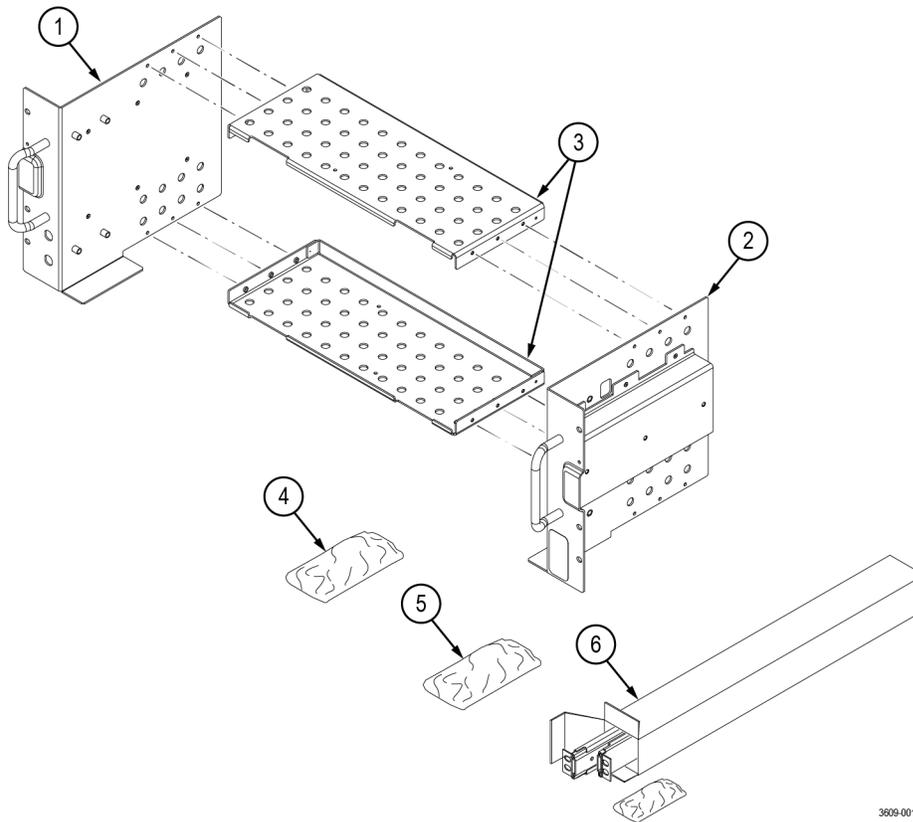
## Kit parts lists

The following tables list the parts for the RM3 rack mount kit; not all of the parts will be needed for your instrument setup.

**Table 1: Rack mount kit**

Item	Quantity	Part number	Description
-----	1 each	071-3609-xx	RM3 RACK MOUNT KIT INSTRUCTIONS
1	1	407-6184-xx	BRACKET, ASSEMBLY, LEFT RACKMOUNT KIT
2	1	407-6183-xx	BRACKET, ASSEMBLY, RIGHT RACKMOUNT KIT
3	2	407-6182-xx	BRACKET, TOP AND BOTTOM RACKMOUNT KIT
4	1	016-2142-xx	KIT, HARDWARE RACKMOUNT KIT This kit includes the hardware required to assemble the rackmount kit and attach it to the instrument. See <a href="#">Table 2: Hardware kit 016-2142-xx</a> on page 2 for the hardware list
5	1	016-2116-xx	KIT, HARDWARE RACKMOUNT KIT This kit includes the hardware required to mount the assembled instrument and rack kit to the instrument rack. See <a href="#">Table 3: Hardware kit 016-2116-xx</a> on page 2 for the hardware list
6	1	351-1095-00	SLIDE ASSY; PAIR, W/STD HARDWARE KIT AND REAR BRACKET, SAFETY CONTROLLED

The numbers in the illustration correspond with the item numbers in the preceding tables. Hardware in 016-2116-xx and 016-2142-xx kits are not pictured in the illustration.



3809-001

**Figure 1: Rack mount kit parts**

**Table 2: Hardware kit 016-2142-xx**

Item	Quantity	Part number	Description
7	12	211-1584-xx	SCREW, MACHINE, M3X0.5X6MM PAN HEAD, TORX T10
8	8	211-1694-xx	SCREW, MACHINE, M4X0.7X16MM PAN HEAD, TORX T20
9	6	211-1695-xx	SCREW, MACHINE, M4X0.7X6MM PAN HEAD, TORX T20

**Table 3: Hardware kit 016-2116-xx**

Item	Quantity	Part number	Description
10	14	210-0833-xx	WASHER, RECESSED; 0.42 ID X 0.112 THK, STL NI PLATED, 0.588 OD
11	14	210-1061-xx	WASHER, FLAT; 0.203 ID X 0.625 OD X 0.062, ZINC PLATED STEEL
12	14	210-1548-xx	WASHER, FLAT 12 OD X 6.4 ID X 1.6THK
13	14	211-1218-xx	SCREW, M6 X 16MM OVAL HEAD, PHILLIPS
14	14	211-1219-xx	SCREW, M5 X 16MM OVAL HEAD, PHILLIPS
15	14	212-0591-xx	SCREW, MACHINE; 10-32X.750 OVAL HEAD, POZI
16	14	213-0199-xx	SCREW, MACHINE; 12-24 X 0.75, OVH, STL NP, POZ

## Warranted characteristics

When the instrument is installed according to the instructions in this document, the rackmounted instrument meets all warranted requirements listed in the instrument specification. Instruments mounted using methods other than those described in these instructions might not meet their warranted requirements.

For tables of the warranted characteristics, see *Specifications* in the specification and performance verification manual that applies to your instrument model.



---

**CAUTION.** *The rack is more susceptible to tipping when the instrument is installed. To prevent the rack from tipping, ensure that the rack is stable before accessing rear panel of the instrument. Do not leave the instrument extended in the rack.*

---

The ambient temperature inside the instrument rack will vary depending on the location of the instrument within the instrument rack. Tektronix recommends that you measure the ambient temperature in the desired rack location before you install the instrument to ensure the operating temperature does not exceed the rated ambient temperature limit. If necessary, refer to the Environmental Specifications in your product documentation for the operating temperature limits.



---

**CAUTION.** *The instrument might be damaged due to overheating. When installing multiple instruments in an instrument rack, the ambient temperature may go up. You assume the responsibility to provide adequate cooling to meet the ambient temperature requirements listed in the specifications.*

---

## Clearance requirements

The rack in which the individual instrument is mounted must provide the following clearance requirements:

- At least 266 mm (10.5 in) of vertical space or 6 RU (rack units) of vertical space
- A minimum width of 488 mm (19.2 in) between the left- and right-front rails in the rack. If possible, consider allowing at least 50.8 mm (2.0 in) on the right side and rear of the instrument for adequate airflow.
- A minimum inside depth of at least 254 mm (10 in) depth (from rack mounting ear to back of instrument)

Airflow enters from the back of the instrument and exits on the right of the instrument when viewed from the front.



---

**CAUTION.** *Adhering to these requirements mounts the rack-adapted instrument with enough clearance for air circulation and accommodation of the power cord and mounting hardware. Failure to provide these clearances can result in overheating and can cause the instrument to operate improperly or fail.*

---



# RM3 Installation instructions

These instructions are for qualified service personnel who are familiar with servicing the product. If you need further details for disassembling or reassembling the product, refer to the appropriate product manual. Contact your nearest Tektronix, Inc., Service Center or Tektronix Factory Service for installation assistance.

## Assemble the rack mount on the instrument

Item numbers referenced in the assembly steps refer to the parts table in the [Kit parts lists](#) on page 1.

1. Remove the instrument handle, hubs, and grill. Save the parts and hardware for future use.
  - a. Remove the four TORX T10 screws from the handle.
  - b. Remove the handle and the two handle hub couplers from the instrument.
  - c. Remove the ten TORX T10 screws from the grill.
  - d. Remove the grill from the back of instrument.

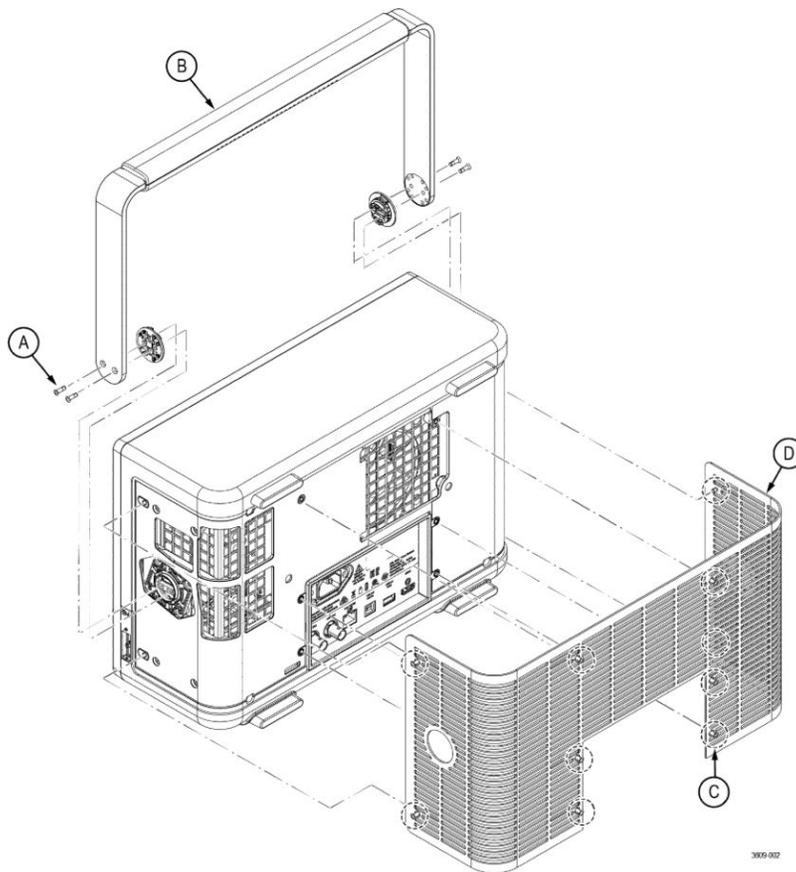
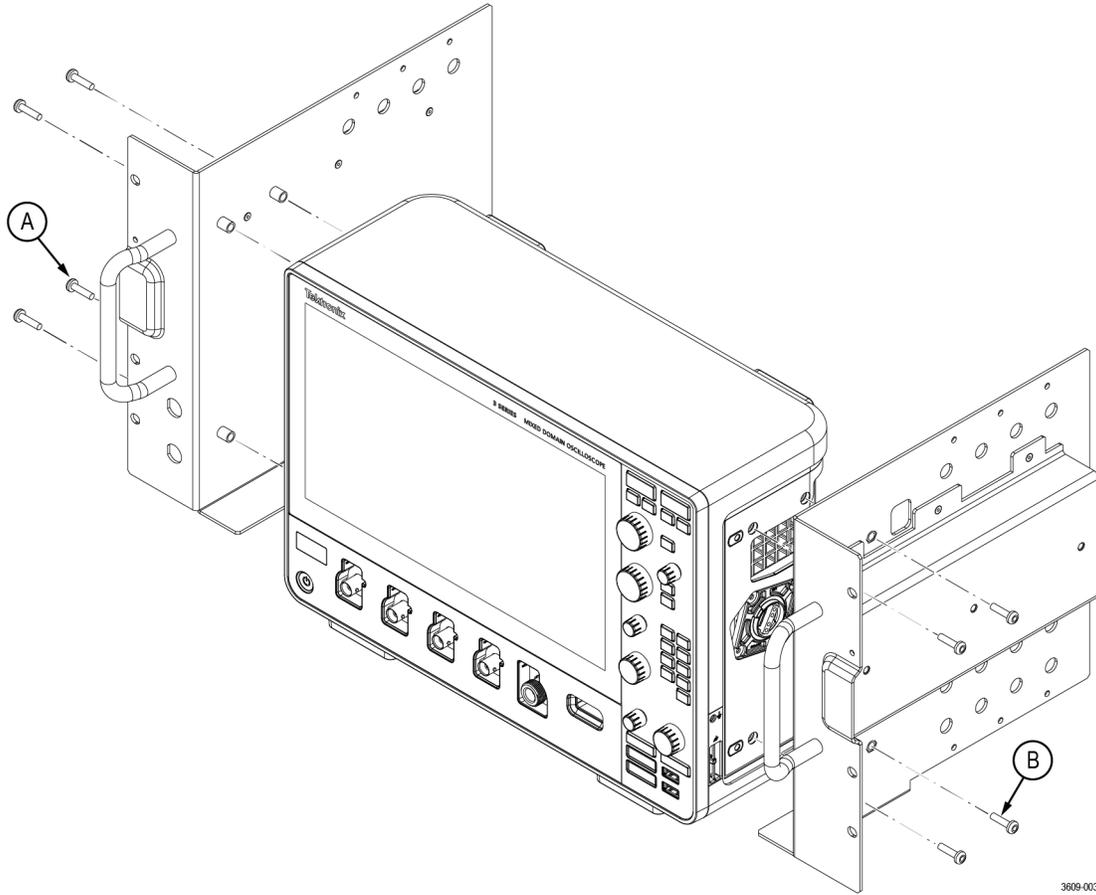


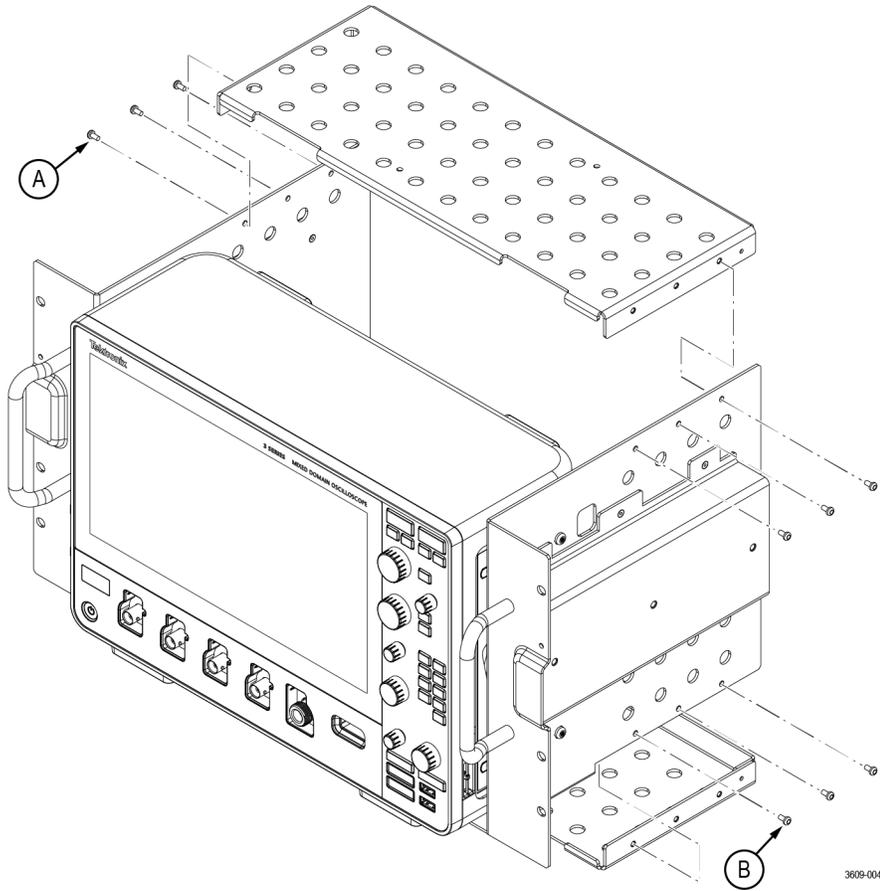
Figure 2: Prepare the instrument

2. Install the left and right mounting plates.
  - a. Use four TORX T20 screws (item 8) to install the left mounting plate (item 1) to the instrument.
  - b. Use four TORX T20 screws (item 8) to install the right mounting plate (item 2) to the instrument.



**Figure 3: Mounting plate installation**

3. Install the top and bottom support plates.
  - a. Use six TORX T10 screws (item 7) to install the top support plate (item 3) to the mounting plates.
  - b. Use six TORX T10 screws (item 7) to install the bottom support plate (item 3) to the mounting plates.



**Figure 4: Support plate installation**

4. Install the left-side and right-side slide mounts.
  - a. Use three TORX T20 screws (item 9) to install the instrument-side portion of the slide (item 6) to the right mounting plate.
  - b. Use three TORX T20 screws (item 9) to install the instrument-side portion of the slide (item 6) to the left mounting plate.

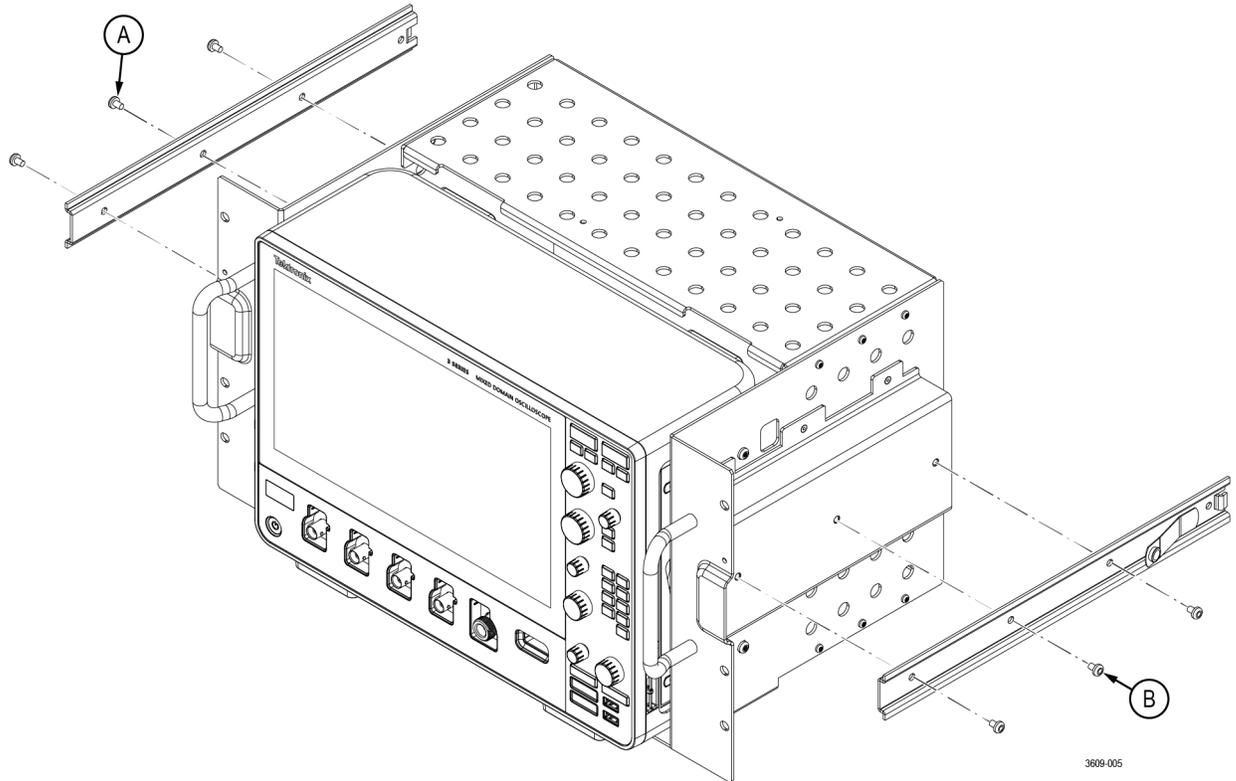
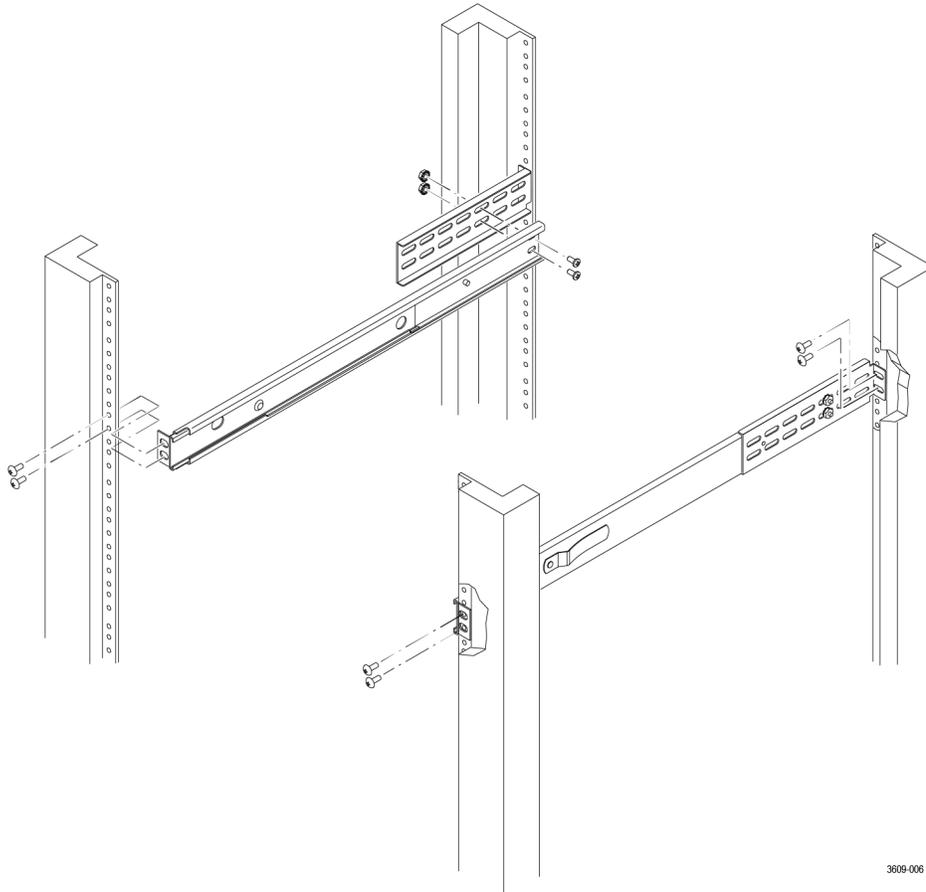


Figure 5: Slide mount installation

## Install the instrument into the rack

1. Use the hardware from [Table 3: Hardware kit 016-2116-xx](#) on page 2 to install the rack slides in your equipment rack.



3609-006

Figure 6: Installing the rail slides



# Dimensions

## Front panel dimensions

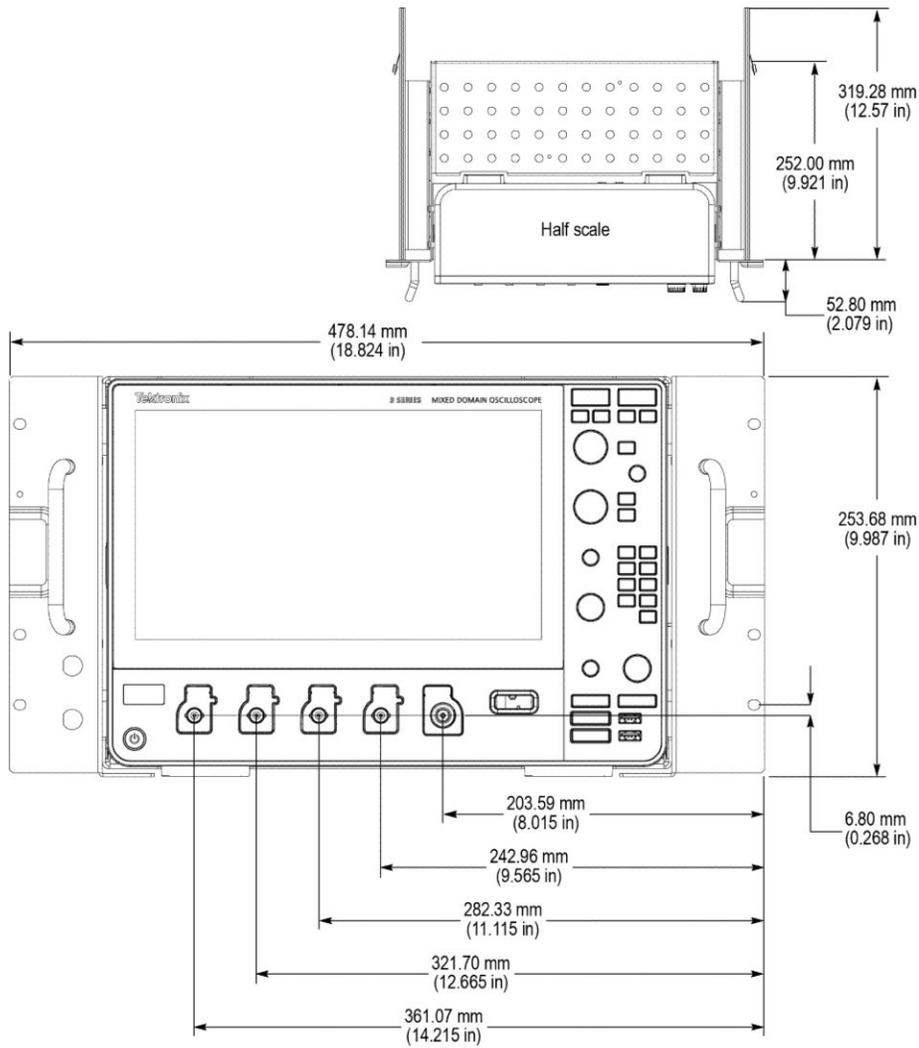


Figure 8: RM3 and 3 Series MDO front panel dimensions

## Rear panel dimensions

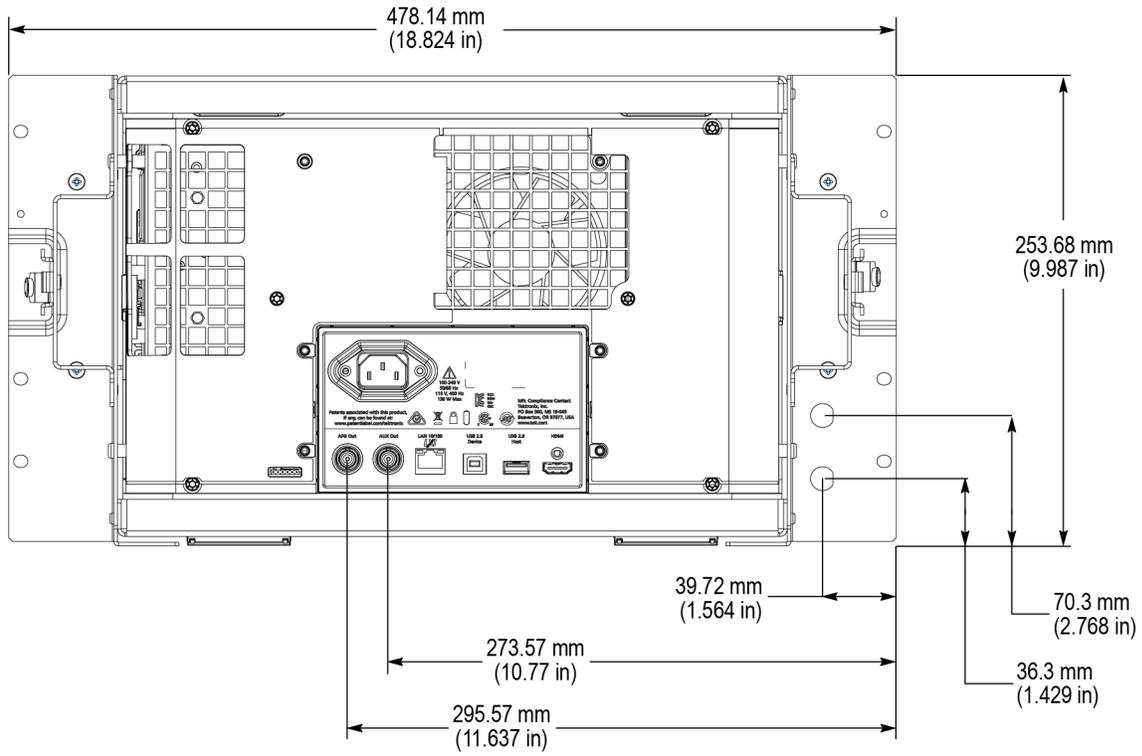


Figure 9: RM3 and 3 Series MDO rear panel dimensions