

VTSRACK-L1, VTSRACK-L2, and VTSRACK-S2 Rackmount Adapters Instructions

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075-1031-01

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General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

To avoid potential hazards, use this product only as specified.

Only qualified personnel should perform service procedures.

While using this product, you may need to access other parts of a larger system. Read the safety sections of the other component manuals for warnings and cautions related to operating the system.

To Avoid Damage to Equipment and Personal Injury

Do Not Exceed Rackmount Weight Ratings. Do not put more weight on rackmount than is listed in the specifications.

Use Proper Hardware. Do not interchange rack slides or rails with other hardware or injury may result. Use only rails specified for the slides and mounting screws.

Use Care When Installing and Removing Product From Rack. Use two people to install and remove product from rack, one on each side. Avoid pinching fingers and hands when installing and removing. Do not force the product into the rails when installing. Gently pull the product out when removing.

Use Only With Specified Products. Do not use rackmount on products for which it was not intended. Refer to individual product manuals for details or contact Tektronix Customer Service when in doubt.

Kit Description

The rackmount kit is a collection of parts that, once installed, configures specific products for mounting into a standard 19-inch equipment rack. This document describes how to install the rackmount kit on various products.



CAUTION. To prevent possible damage to your instrument from overheating, which could include the failure of electrical components, be sure to contact a Tektronix, Inc. representative before you install the VTSRACK-L2 or VTSRACK-S2 adapters on Tektronix instruments other than those listed in Table 1. The Tektronix representative can tell you the rack-mounting space requirements of other Tektronix equipment.

The VTSRACK-L2 and VTSRACK-S2 adapters allow you to mount other instruments directly above and below the instruments mounted in the adapter (zero vertical clearance). The instruments listed in Table 1 are designed to withstand the heat and restricted air flow that may result from other instruments being mounted directly above and below the VTSRACK-L2 and VTSRACK-S2 adapters.

Most manufacturer's test equipment, including those made by Tektronix, are not designed for the zero vertical-clearance spacing in the equipment rack allowed by the VTSRACK-L2 and VTSRACK-S2 adapters. To prevent possible damage to adjoining test equipment from overheating, be sure to consult the documentation provided with other test equipment to locate their spacing and airflow requirements before you install any test equipment directly above or below the VTSRACK-L2 and VTSRACK-S2 adapters.

Supported Products

The rackmount adapter in this kit is made for specific Tektronix products. The following table describes which products can be used with which rackmount adapters.

Table 1: Supported products and related rackmounts

Product	Rackmount adapter description
WVR5200	VTSRACK-S2 Full rack (19"), short depth, 1RU adapter (with zero clearance mounting) to fit one or two (side by side) instruments
WVR5200, WVR5000, WVR4000, SPG300	VTSRACK-L1 Full rack (19"), full depth, 1RU adapter (with 1.75" rack space) to fit one instrument
WVR5200, WVR5000, WVR4000, SPG300, AVDC100	VTSRACK-L2 Full rack (19"), full depth, 1RU adapter (with zero clearance mounting) to fit one or two (side by side) instruments

Kit Parts List

One of the following tables list the parts contained in this kit. The associated figure shows what the parts look like.

Table 2: VTSRACK-S2 parts list (See Figure 1.)

Figure and index no.	Qty.	Part number	Name and description
1-1	1	407-5612-XX	BRACKET, RACKMOUNT, LEFT
1-2	1	407-5615-XX	BRACKET;RACKMOUNT, CENTER, RIGHT, S2
1-3	1	407-5614-XX	BRACKET;RACKMOUNT, CENTER, LEFT, S2
1-4	1	407-5613-XX	BRACKET, RACKMOUNT, RIGHT
1-5	16	211-0538-XX	SCREW, MACHINE; 6-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, T10 TORX
	6	212-0004-XX	SCREW, MACHINE; 8-32 X 0.312, PNH, STEEL, ZINC PLATED, T20 TORX
	6	212-0070-XX	SCREW, MACHINE; 8-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, TORX T15
	12	212-0535-XX	SCREW, MACHINE; 10-32 X 0.312, TRH, TORX, T25, ZINC PLATED STEEL
	8	220-0160-XX	NUT, CLIP ON; 10-32, RACK FRAME MOUNTING NUT, CLIP ON BRACKET WITH CAPTIVE NUT
	8	211-0507-XX	SCREW, MACHINE; 6-32 X 0.312, PNH, STEEL, ZINC PLATE, T15 TORX (MUST BE DECORATIVE)
1-6	2	333-4669-XX	BLANK FRONT PANEL, RACK MOUNT S-2, L1
—	2	407-4853-XX	BRACKET; RACKMOUNT, 10.400 L, 0.100 AL

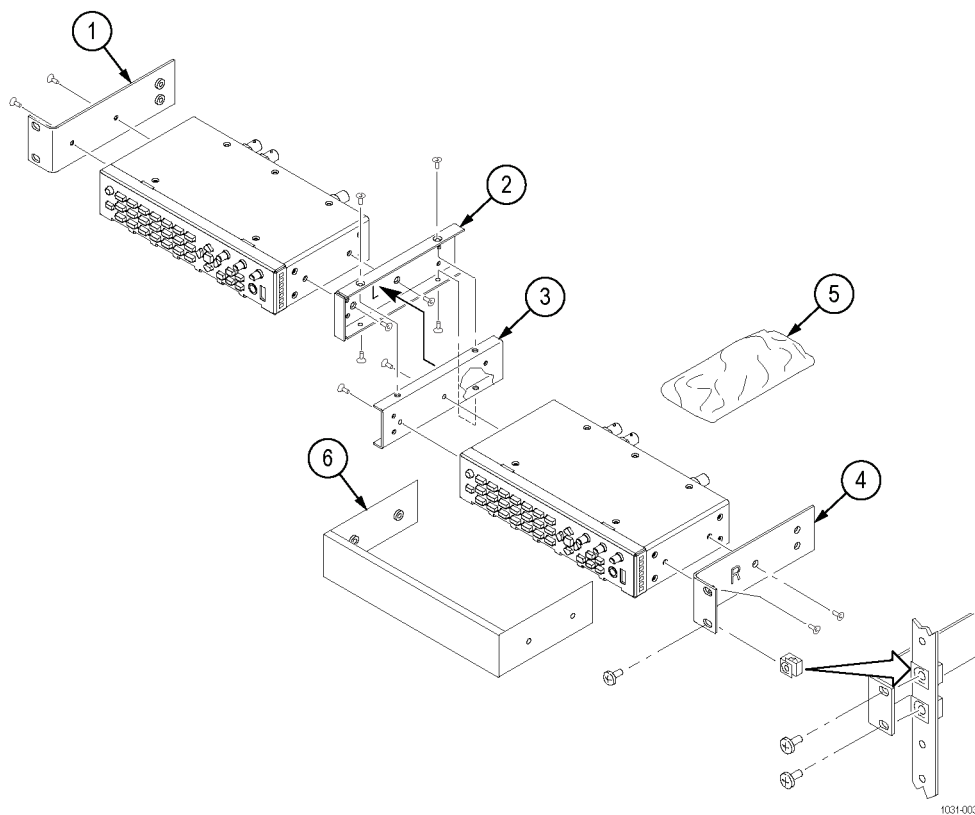
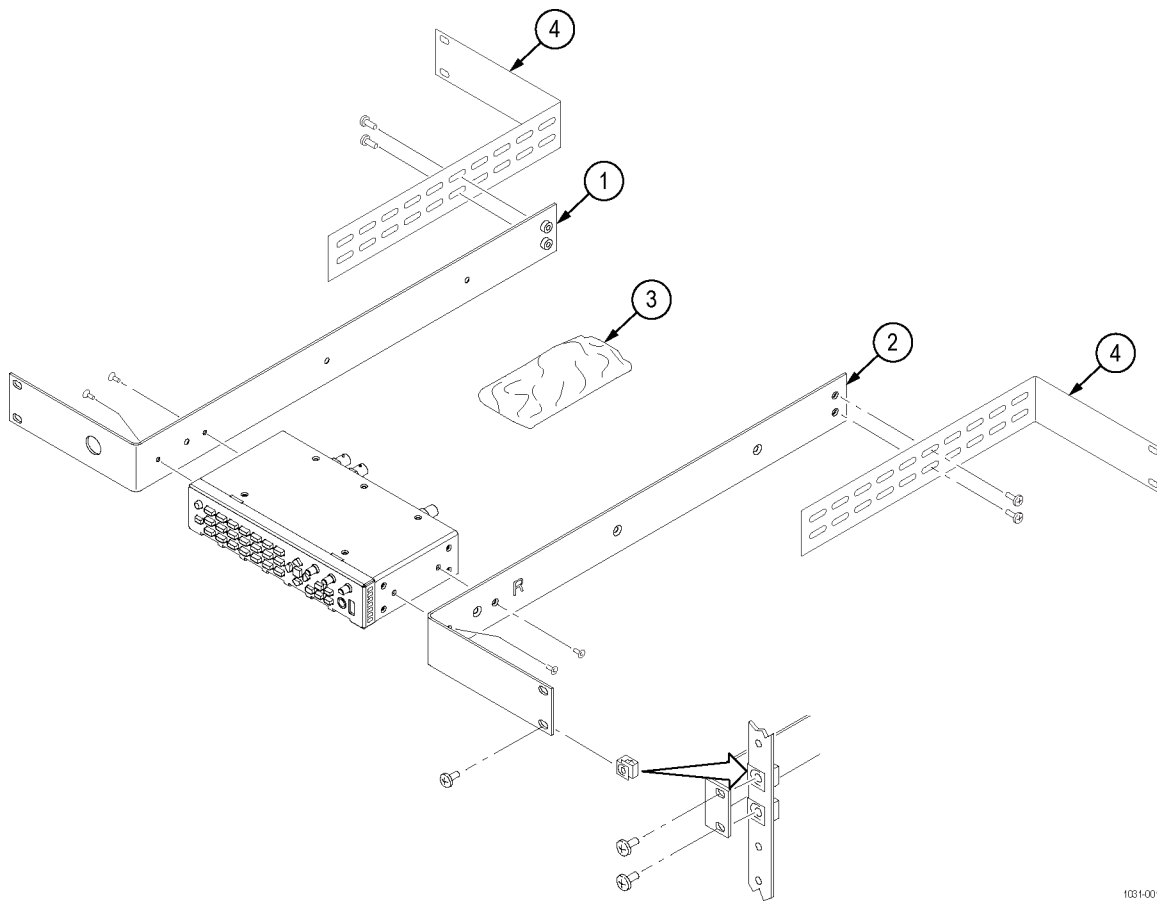


Figure 1: VTSRACK-S2 assembly parts

Table 3: VTSRACK-L1 parts list (See Figure 2.)

Figure and index no.	Qty.	Part number	Name and description
1-1	1	407-5620-XX	BRACKET, RACK MOUNT LEFT, L1
1-2	1	407-5621-XX	BRACKET, RACKMOUNT (RIGHT) L1
1-3	8	211-0538-XX	SCREW, MACHINE; 6-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, T10 TORX
	6	212-0070-XX	SCREW, MACHINE; 8-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, TORX T15
	12	212-0535-XX	SCREW, MACHINE; 10-32 X 0.312, TRH, TORX, T25, ZINC PLATED STEEL
	8	220-0160-XX	NUT, CLIP ON; 10-32, RACK FRAME MOUNTING NUT, CLIP ON BRACKET WITH CAPTIVE NUT
1-4	2	407-3776-XX	BRACKET, RACK MT; SAFETY CONTROLLED
—	2	333-4669-XX	BLANK FRONT PANEL, RACK MOUNT S-2, L1

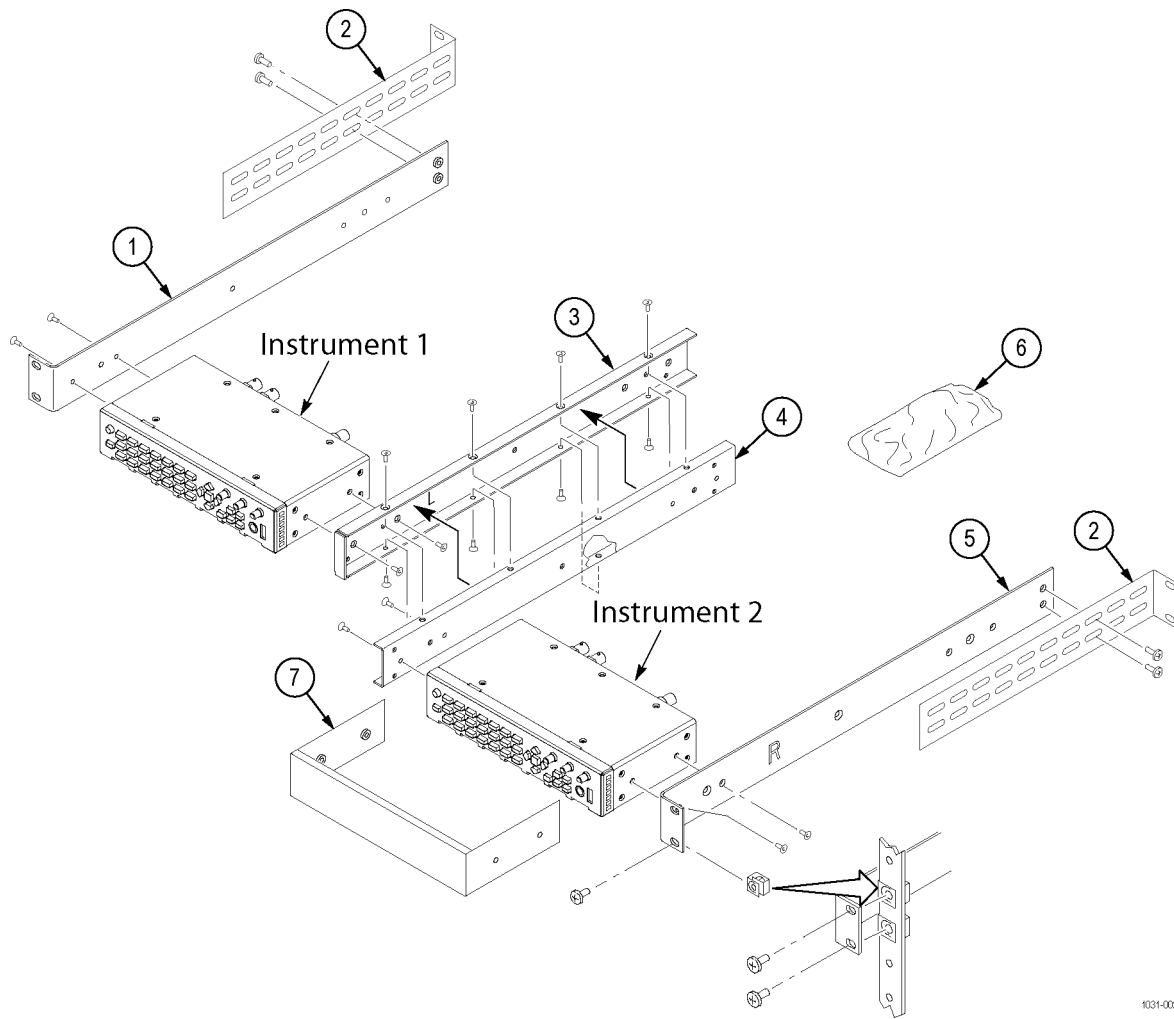


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Figure 2: VTSRACK-L1 assembly parts

Table 4: VTSRACK-L2 parts list (See Figure 3.)

Figure and index no.	Qty.	Part number	Name and description
1-1	1	407-5616-XX	BRACKET, RACKMOUNT (LEFT)
1-2	2	407-4853-XX	BRACKET; RACKMOUNT, 10.400 L, 0.100 AL
1-3	1	407-5619-XX	BRACKET (RACKMOUNT, CENTER, RIGHT)
1-4	1	407-5618-XX	BRACKET (RACKMOUNT, CENTER, LEFT) L2
1-5	1	407-5617-XX	BRACKET, RACKMOUNT (RIGHT)
1-6	8	211-0507-XX	SCREW, MACHINE; 6-32 X 0.312, PNH, STEEL, ZINC PLATE, T15 TORX (MUST BE DECORATIVE)
	16	211-0538-XX	SCREW, MACHINE; 6-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, T10 TORX
	6	212-0004-XX	SCREW, MACHINE; 8-32 X 0.312, PNH, STEEL, ZINC PLATED, T20 TORX
	6	212-0070-XX	SCREW, MACHINE; 8-32 X 0.312, FLH, 100 DEG, ZINC PLATED STEEL, TORX T15
	12	212-0535-XX	SCREW, MACHINE; 10-32 X 0.312, TRH, TORX, T25, ZINC PLATED STEEL
	8	220-0160-XX	NUT, CLIP ON; 10-32, RACK FRAME MOUNTING NUT, CLIP ON BRACKET WITH CAPTIVE NUT
1-7	2	333-4669-XX	BLANK FRONT PANEL, RACK MOUNT S-2, L-2



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Figure 3: VTSRACK-L2 assembly parts

Installation Instructions

These instructions are for 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 Service Center or contact Tektronix Factory Service for installation assistance.

Equipment List

The following tools are required to install the kit hardware:

- Torx-10 screwdriver bit
- Torx-8 screwdriver bit
- Measuring tape

VTSRACK-S2 Installation

Use the following procedure to install one or two instruments into the rack adapter. (See Figure 1.)

1. Install the left bracket [1] on the left side of instrument #1 (assuming you are facing the instrument) using two Torx-10 screws.
2. Install the right bracket [4] on the right side of instrument #2 using two Torx-10 screws. If you do not have a second instrument, install the right bracket on the right side of the blank panel [6].
3. Install the left center bracket [2] on the right side of instrument #1 using two Torx-10 screws.
4. Install the right center bracket [3] on the left side of instrument #2 (or the blank panel if you do not have a second instrument) using two Torx-10 screws.
5. Slide the two center brackets together and align the screw holes on the top.
6. Connect the center brackets using a total of four Torx-10 screws: two on the top and two on the bottom.
7. If you need extensions to fit the assembly into a rack, measure the depth of your equipment rack to determine which of the slots in the extension brackets to use for mounting.
8. If needed, install one extension bracket on each side of the assembly using a total of four Torx-8 screws: two on the right side extension bracket and two on the left side extension bracket. Do not tighten the screws. The bend in each bracket should face the rear of the instrument.

9. Position the assembly in the equipment rack. Attach the front and the rear brackets to the equipment rack using a total of four Torx-8 screws: two on the right side and two on the left side.
10. Tighten the extension bracket screws that you left loose in step 8 on both sides of the assembly.
11. Attach the assembly to the rack with a total of four Torx-16 screws and four clip-on nuts: two each on the left side and two each on the right side.

NOTE. *This kit provides eight clip-on nuts for use on equipment racks that do not have threaded mounting rails.*

VTSRACK-L2 Installation

Use the following procedure to install one or two instruments into the rack adapter. (See Figure 3.)

1. Install the left bracket [1] on the left side of instrument #1 (assuming you are facing the instrument) using two Torx-10 screws.
2. Install the right bracket [5] on the right side of instrument #2 using two Torx-10 screws. If you do not have a second instrument, install the right bracket on the right side of the blank panel [7].
3. Install the left center bracket [3] on the right side of instrument #1 using two Torx-10 screws.
4. Install the right center bracket [4] on the left side of instrument #2 (or the blank panel if you do not have a second instrument) using two Torx-10 screws.
5. Slide the two center brackets together and align the screw holes on the top.
6. Connect the center brackets using a total of eight Torx-10 screws: four on the top and four on the bottom.
7. If you need extensions to fit the assembly into a rack, measure the depth of your equipment rack to determine which of the slots in the extension brackets to use for mounting.
8. If needed, install one extension bracket on each side of the assembly using a total of four Torx-8 screws: two on the right side extension bracket and two on the left side extension bracket. Do not tighten the screws. The bend in each bracket should face the rear of the instrument.
9. Position the assembly in the equipment rack. Attach the front and the rear brackets to the equipment rack using a total of four Torx-8 screws: two on the right side and two on the left side.

10. Tighten the extension bracket screws that you left loose in step 8 on both sides of the assembly.
11. Attach the assembly to the rack with a total of four Torx-16 screws and four clip-on nuts: two each on the left side and two each on the right side.

NOTE. *This kit provides eight clip-on nuts for use on equipment racks that do not have threaded mounting rails.*

VTSRACK-L1 Installation

Use the following procedure to install one instrument into the rack adapter. (See Figure 2.)

1. Install the left bracket [1] on the left side of the instrument (assuming you are facing the instrument) using two Torx-10 screws.
2. Install the right bracket [2] on the right side of the instrument using two Torx-10 screws.
3. If you need extensions to fit the assembly into a rack, measure the depth of your equipment rack to determine which of the slots in the extension brackets to use for mounting.
4. If needed, install one extension bracket on each side of the assembly using a total of four Torx-8 screws: two on the right side extension bracket and two on the left side extension bracket. Do not tighten the screws. The bend in each bracket should face the rear of the instrument.
5. Position the assembly in the equipment rack. Attach the front and the rear brackets to the equipment rack using a total of four Torx-8 screws: two on the right side and two on the left side.
6. Tighten the extension bracket screws that you left loose in step 4 on both sides of the assembly.
7. Attach the assembly to the rack with a total of four Torx-16 screws and four clip-on nuts: two each on the left side and two each on the right side.

NOTE. *This kit provides eight clip-on nuts for use on equipment racks that do not have threaded mounting rails.*
