TSG4100A-RM1 and TSG4100A-RM2 RF Signal Generator Rackmount Kit

Instructions

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TSG4100A Series RM1 and RM2 Rackmount Kit Instructions

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.

To safely perform service on this product, additional information is provided at the end of this section. (See page , Service safety summary.)

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. Use this rackmount kit only for the TSG4100A series instruments.

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.

To prevent the instrument from tipping or dropping onto the installers, two or more people should install this instrument into the rack cabinet. After completing the installation procedure, the installers should verify that the instrument and rack cabinet will not tip forward when the instrument is in the extended position.

The instrument may need to be extended for access to the rear panel. Do not leave the instrument extended when finished accessing the rear panel.

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 descriptions and parts lists

Once assembled, the following kits allow you to place one or two TSG4100A Series RF Signal Generator(s) in a standard 19-inch equipment rack. Before assembling your rackmount kit, check that you received all of the parts for the particular kit you ordered.
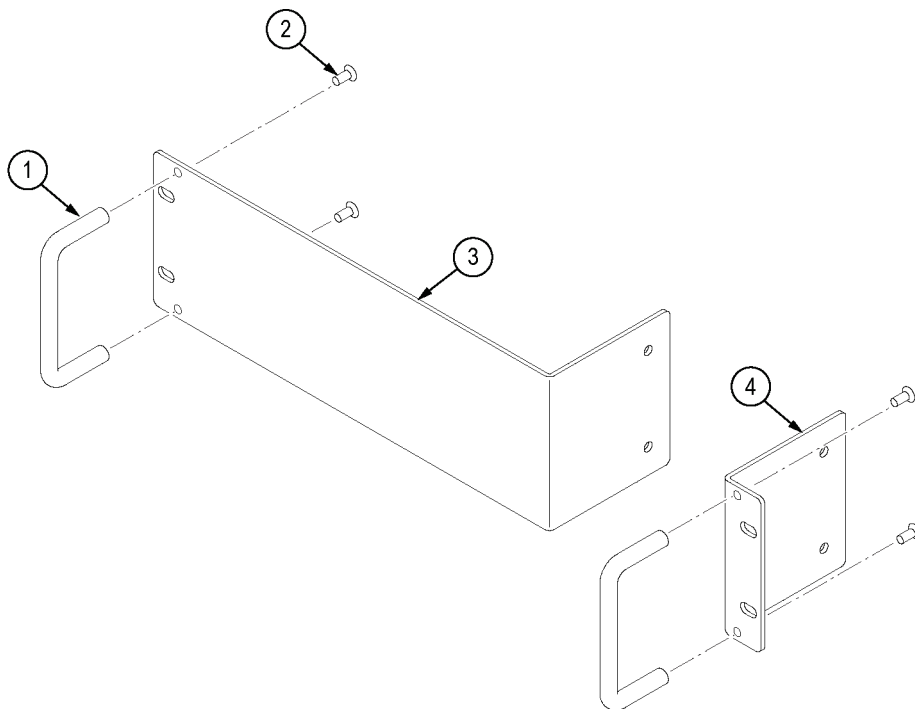
TSG4100-RM1   This kit configures one Tektronix TSG4100A Series RF Signal Generator for mounting into a standard 19-inch equipment rack.

This kit shipped with the items listed in the following table and shown in the following figure. (See Figure 1.)

When you are ready to assemble the rackmount kit, see the RM1 installation procedure. (See page 5.)

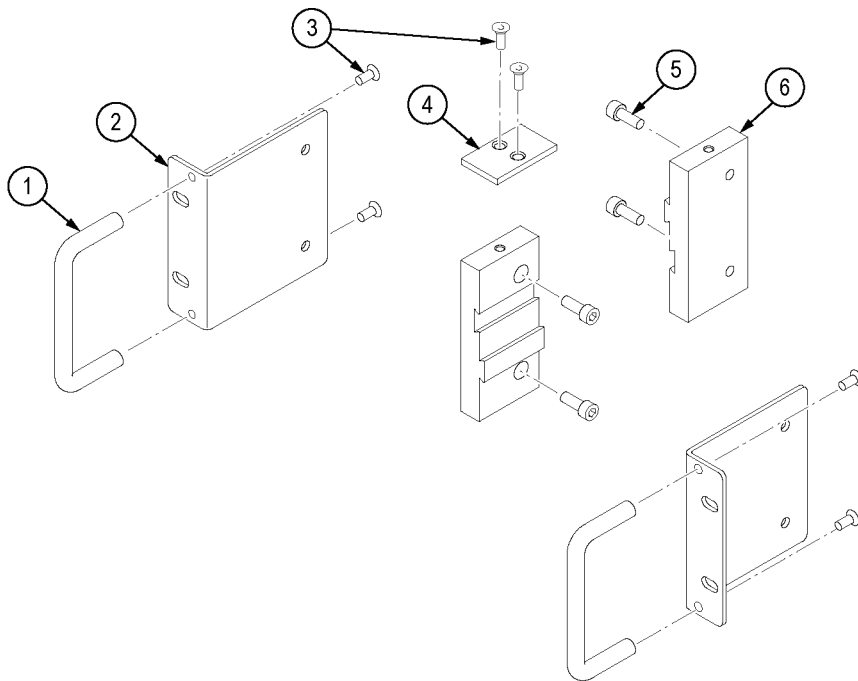| Figure 1 reference	Item	Quantity
-1	Handle	2
-2	Screws, machine (8-32 x .375)	4
	(These Torx 15 screws may already secure the handles to the brackets.)	
-3	Ear bracket, large	1
-4	Ear bracket, small	1

Figure 1: RM1 rackmount parts

TSG4100-RM2 This kit configures two Tektronix TSG4100A Series RF Signal Generators for mounting into a standard 19-inch equipment rack.

This kit shipped with the items listed in the following table and shown in the following figure. (See Figure 2.)

When you are ready to assemble the rackmount kit, see the RM2 installation procedure. (See page 7.)

Figure 2 reference	Item	Quantity
-1	Handle	2
-2	Ear bracket, small	2
-3	Screws, machine (8-32 x .375)	6
	(Four of these Torx 15 screws may already secure the handles to the brackets.)	
-4	Plate, side interlocking	1
-5	Screws, sockethead cap (10-32 x .500)	4
-6	Bracket, side interlocking	2

Figure 2: RM2 rackmount parts

Equipment list

Use the following tools to install the kit hardware:

- Sockethead screwdriver

- Torx T15 screwdriver

- Torx T20 screwdriver

- Torx T25 screwdriver

- Flat-bladed screwdriver

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.

RM1 installation

Use the following procedure and refer to the illustration to assemble the RM1 (single instrument) rackmount hardware and install the instrument into the rack. (See Figure 3.)

⚠️ *CAUTION. You must remove the feet from the bottom of the instrument if you intend to install it immediately above another instrument in the rack (with no clearance). To so this, you will need to use a flat-bladed screwdriver to pry out the 7/16"–deep plugs that cover the hidden screws, and then use a Torx T20 driver to loosen the screws to remove the feet.*
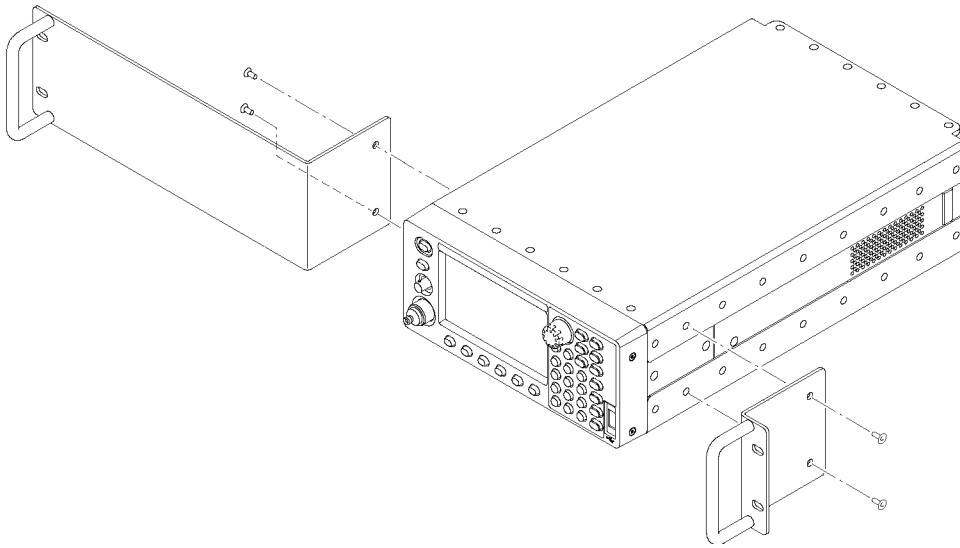
Figure 3: RM1 assembly

RM1 assembly procedure

1. Remove the flexible boot that surrounds and protect the front end of the instrument.

2. Remove the two T25 screws from each side of the instrument (a total of 4 screws).

3. Attach the right handle bracket to the right (outside) side of the instrument using two of the screws removed in step 1.

4. Attach the left handle bracket to the left (outside) side of the instrument using the two remaining screws removed in step 1.

⚠ **WARNING.** *To reduce the risk of injury or damage to the instruments that might be caused by dropping the instruments or loading them into the rack incorrectly, use two people to place and secure the instruments into the rack.*

6. Place and secure the mounted instrument in the rack.

RM2 installation

Use the following procedure and refer to the illustrations to assemble the RM2 (two instruments) rackmount hardware and install the instruments into the rack. (See Figure 4.) (See Figure 5.)

⚠ **CAUTION.** *You must remove the feet from the bottom of each instrument if you intend to install them immediately above other instruments in the rack (with no clearance). To so this, you will need to use a flat-bladed screwdriver to pry out the 7/16"–deep plugs that cover the hidden screws, and then use a Torx T20 driver to loosen the screws to remove the feet.*
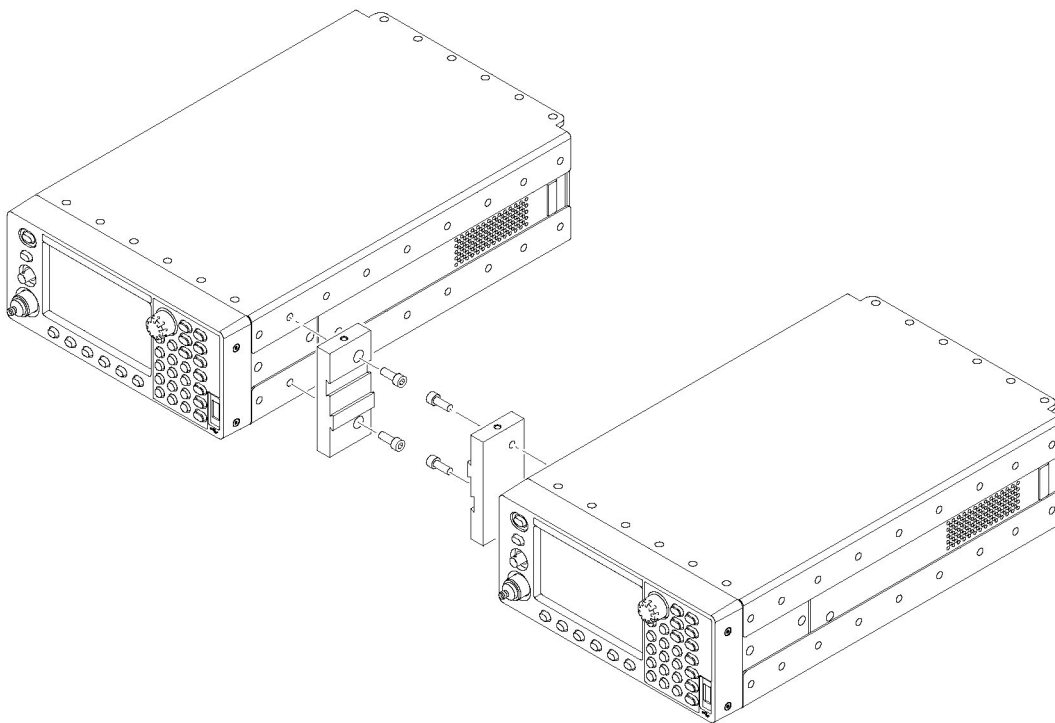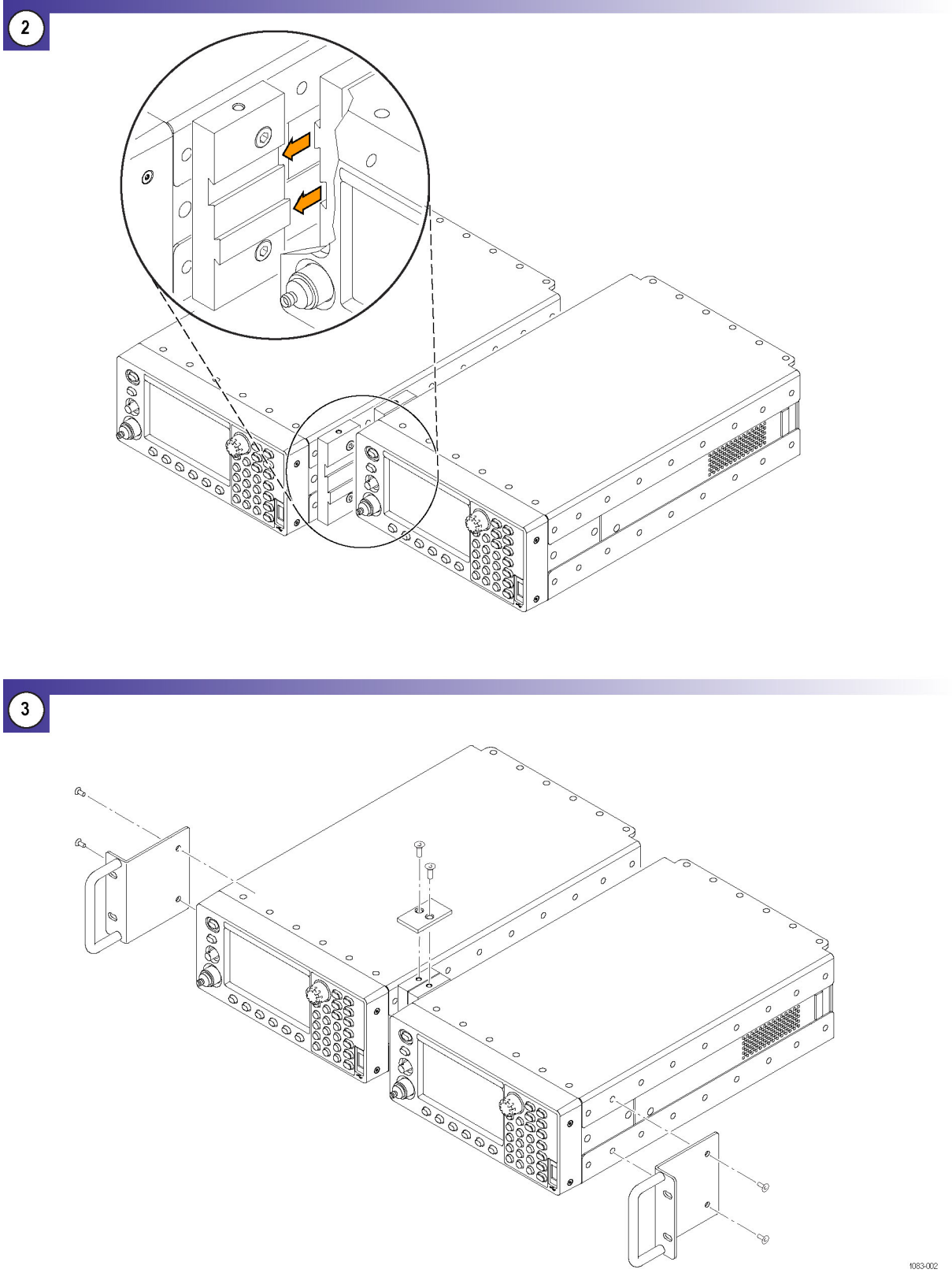
Figure 4: RM2 assembly part 1

Figure 5: RM2 assembly part 2 and part 3

TSG4100A Series RM1 and RM2 Rackmount Kit Instructions

RM2 assembly procedure

1. Remove the flexible boots that surround and protect the front ends of the instruments.

2. **Part 1**: Attach the interior brackets to the two instruments as follows. (See Figure 4.)

   a. Remove the two T25 screws from each side of each instrument (a total of 8 screws).

   b. Place the two instruments side by side and facing the same direction on your work table.

   c. Attach the interior bracket to the left (inside) side of the instrument on the right using two sockethead screws.

   d. Attach the interior bracket to the right (inside) side of the instrument on the left using two sockethead screws.

3. **Part 2 and Part 3**: Connect and secure the two instruments as follows. (See Figure 5.)

   a. Connect the interior brackets by moving one of the instruments and sliding the interior brackets together until they lock.

   b. Attach the right handle bracket to the right (outside) side of the instrument on the right using two of the screws removed in step 2 a.

   c. Attach the left handle bracket to the left (outside) side of the instrument on the left using two of the screws removed in step 2 a.

   d. Use two T15 screws to secure the plate to the top of the interlocking brackets that hold the two instruments together.

⚠ *WARNING. To reduce the risk of injury or damage to the instruments that might be caused by dropping the instruments or loading them into the rack incorrectly, use two people to place and secure the instruments into the rack.*

4. Place and secure the mounted instrument in the rack.