



# Sun StorEdge™ T3 and T3+ Array Telco Rack Installation Guide

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Part No. 806-5133-11  
August 2001, [Revision A](#)

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# Rack Installation

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The *Sun StorEdge T3 and T3+ Array Telco Rack Installation Guide* describes how to install a Sun StorEdge™ T3 and T3+ array in a telco rack using the telco rackmount kit. The rackmount kit for this rack is seven rack units (RUs) high, providing space for two arrays. You can install up to ten arrays in a telco rack using five rackmount kits.

This document includes information only on mounting an array in a rack; it does not include instructions on how to perform a complete array installation. For instructions on cabling the array, configuring the drive volumes, and other installation information, refer to Chapter 2 of the *Sun StorEdge T3 and T3+ Array Installation, Operation, and Service Manual*.

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**Note** – Before beginning the installation, refer to the requirements for operating a Sun StorEdge T3 and T3+ array in a standard 19-inch EIA/RETMA rack as described in Appendix A of the *Sun StorEdge T3 and T3+ Array Site Preparation and Planning Guide*. Make sure that the rack you are using meets the specified requirements.

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This document contains the following sections:

- “Rackmount Kit Contents” on page 2
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# Rackmount Kit Contents

The following table lists the items that are supplied with the telco rackmount kit. The kit contains the hardware items required to install two Sun StorEdge T3 and T3+ arrays on a telco rack.

**TABLE 1** Telco Rackmount Kit

Part Number	Item Description	Quantity
340-6528-01	Telco right rail	1
340-6529-01	Telco left rail	1
340-6530-01	Telco rear bracket	4
340-6031-01	Support plate	2
240-3017-01	Screw, 10-32x3/8 in.	12
240-3840-01	Screw, 12-24x1/2 in.	8
240-3768-01	Screw, 10-32x5/16 in.	8

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# Related Documentation

The following table lists other related documents that can help you with the installation process.

**TABLE 2** Related Documentation

Application	Title	PartNumber
Preparing for the installation	<i>Sun StorEdge T3 Disk Tray Site Preparation and Planning Guide</i>	806-4212
Installation overview	<i>Sun StorEdge T3 Disk Tray Installation Task Map</i>	806-1061
Installing, operating, and servicing	<i>Sun StorEdge T3 Disk Tray Installation, Operation, and Service Manual</i>	806-1062
Administration	<i>Sun StorEdge T3 Disk Tray Administrator's Guide</i>	806-1063
Release notes	<i>Sun StorEdge T3 Disk Tray Release Notes</i>	806-1497

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# Accessing Sun Documentation Online

The SunDocs<sup>SM</sup> product documentation web site enables you to access a select group of Sun technical documentation on the Web. You can browse the SunDocs archive or search for a specific book title or subject at:

<http://www.sun.com/products-n-solutions/hardware/docs>

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## Installation Guidelines

Follow these guidelines when installing the array:

- Prepare the location following the instructions in the *Sun StorEdge T3 and T3+ Array Site Preparation and Planning Guide*.
- Install the array in the first empty slot at the bottom of the rack. If you are installing more than one array, continue installing arrays from the bottom up.
- If you are installing a array partner group, install the master unit in the lowest empty slot available, and install the alternate master unit in the next slot up. Install all array partner groups in this order.
- Use two people to lift and install the array.



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**Caution** – This procedure requires two people to lift and move the array. Use care to avoid injury. An array can weigh up to 67 pounds (30 kg).

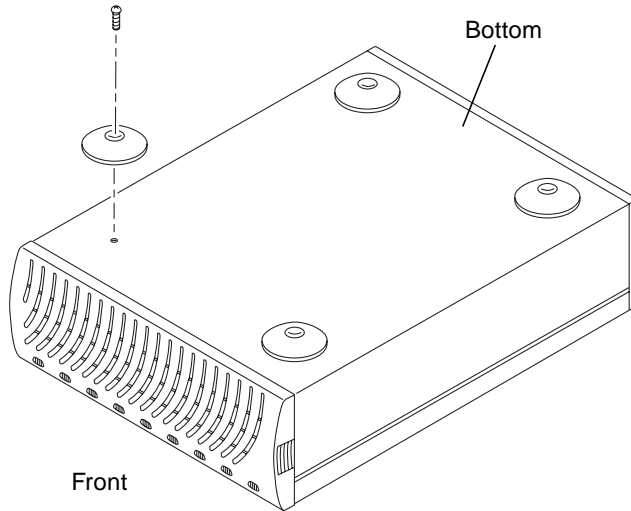
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## Attaching the Support Plate to the Array

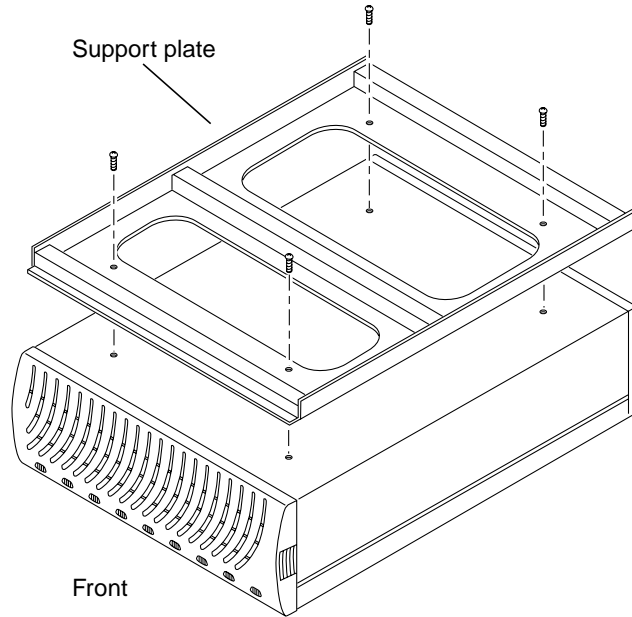
1. **With the aid of an assistant, invert the array so that the bottom faces up and the front faces you.**

2. Using a Phillips screwdriver, remove the four screws that secure the feet to the array (FIGURE 1).



**FIGURE 1** Removing the Feet

3. Secure the support plate to the array using four screws (part number 240-3768-01) provided in the rackmount kit (FIGURE 2).



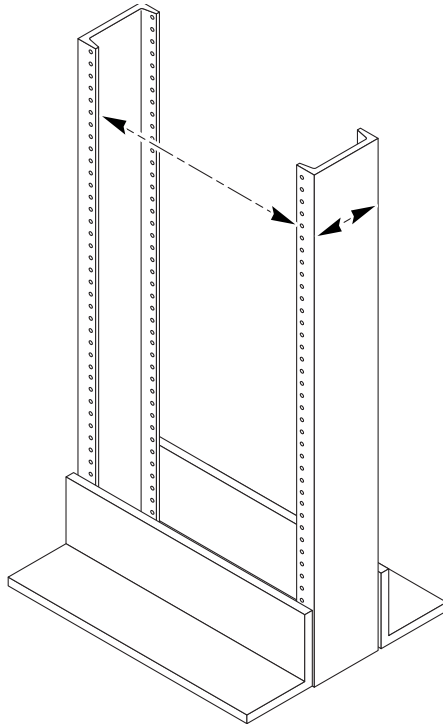
**FIGURE 2** Attaching the Support Plate to the Array

- 4. With the aid of an assistant, restore the array to the upright position.**

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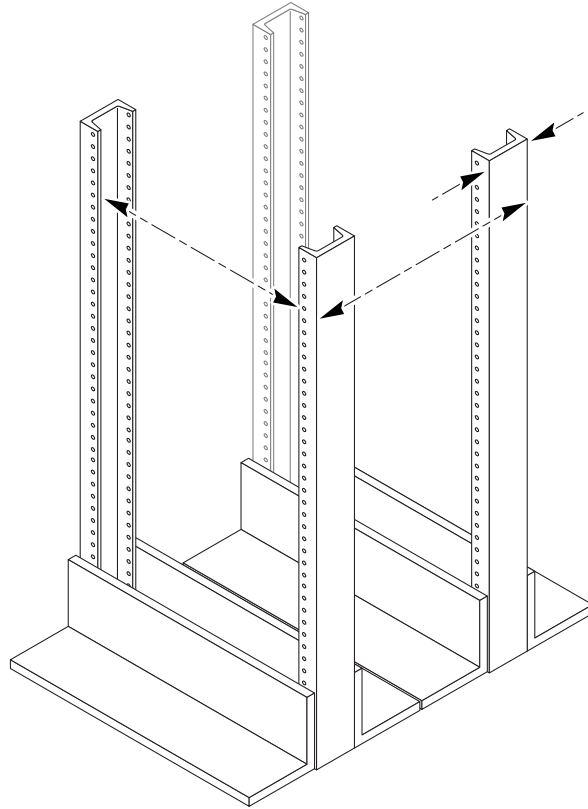
# Suitable Rack Configurations

This rackmount kit is suitable for use in the following rack configurations:



**FIGURE 3** 2-Post Telco Rack Configuration





**FIGURE 4** 4-Post Telco Rack Configuration

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## Attaching the Side Rails to a 4-Post Rack

- 1. Secure the rack with rigid connections stably to the floor and ceiling as appropriate (refer to the rack manufacturer's installation instructions).**

2. Prepare the side rails by loosely attaching the brackets to both of the side rails (FIGURE 5) using eight screws (part number 240-3017-01) provided in the rackmount kit.

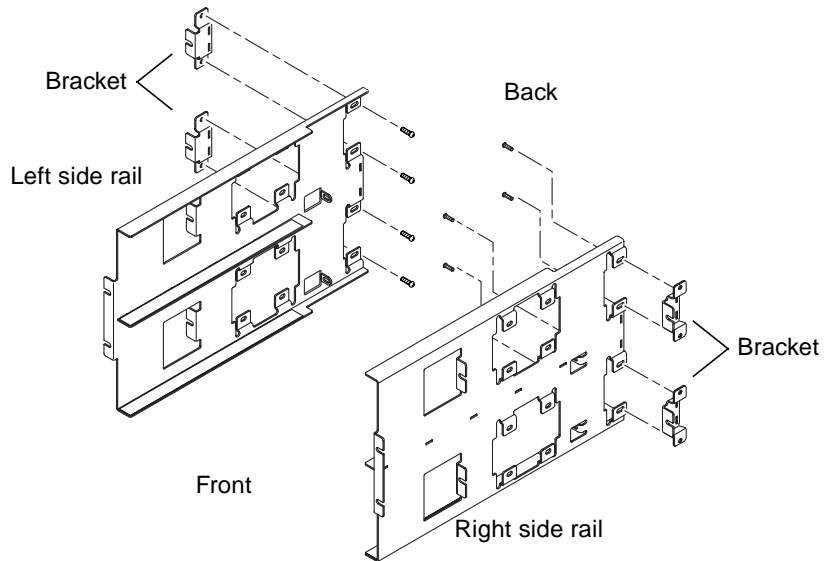
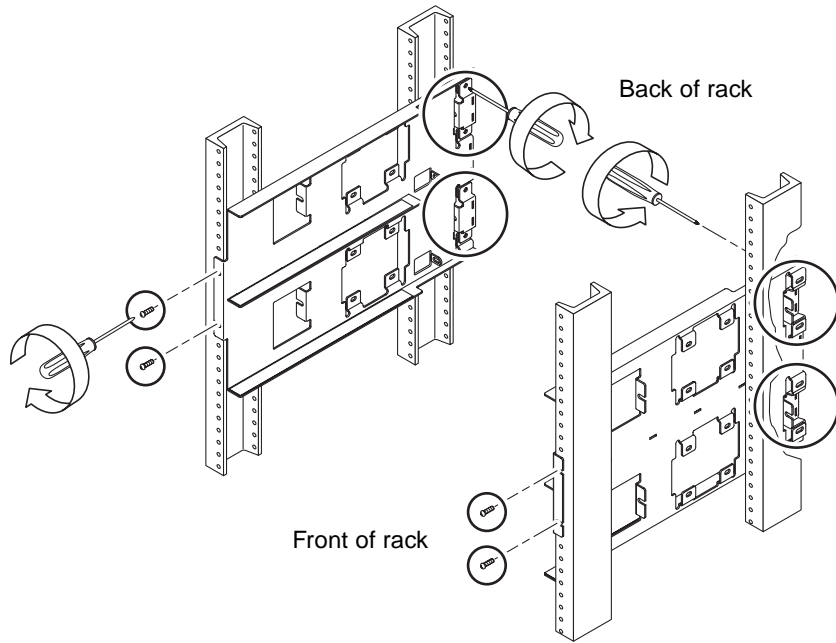


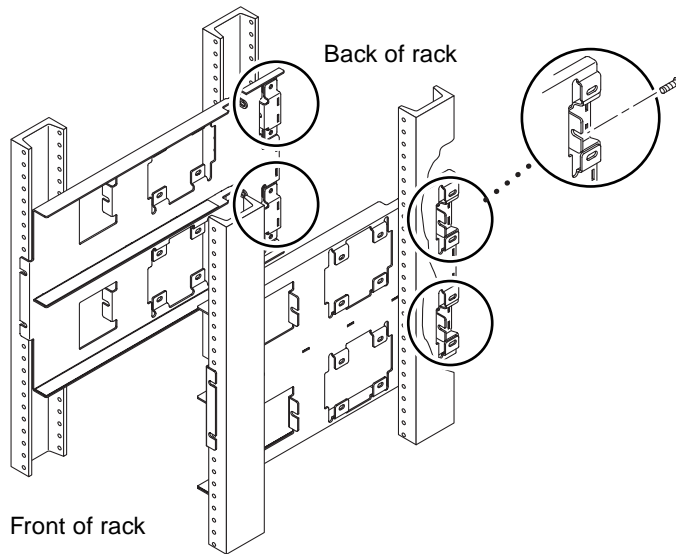
FIGURE 5 Attaching the Brackets to the Side Rails

3. Position the left side rail in the rack in the lowest empty slot, aligning the holes in the rail with the holes in the rack (FIGURE 6).
4. Secure the left side rail to the rack.
  - a. Tighten the screws of the brackets at the back of the rail.
  - b. Secure the front of the rail using two screws (part number 240-3840-01) provided in the rackmount kit.



**FIGURE 6** Attaching the Side Rails to the Rack

- c. Secure the back of the rail (FIGURE 7) using two screws (part number 240-3840-01) provided in the rackmount kit.**



**FIGURE 7** Securing the Back of the Side Rails

- 5. Repeat Step 3 and Step 4 to attach the right rail to the rack.**  
Make sure you align the left rail with the right rail.

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## Attaching a Side Rails to a 2-Post Rack

- 1. Secure the rack stably with rigid connections to the floor and ceiling as appropriate (refer to the rack manufacturer's installation instructions)**

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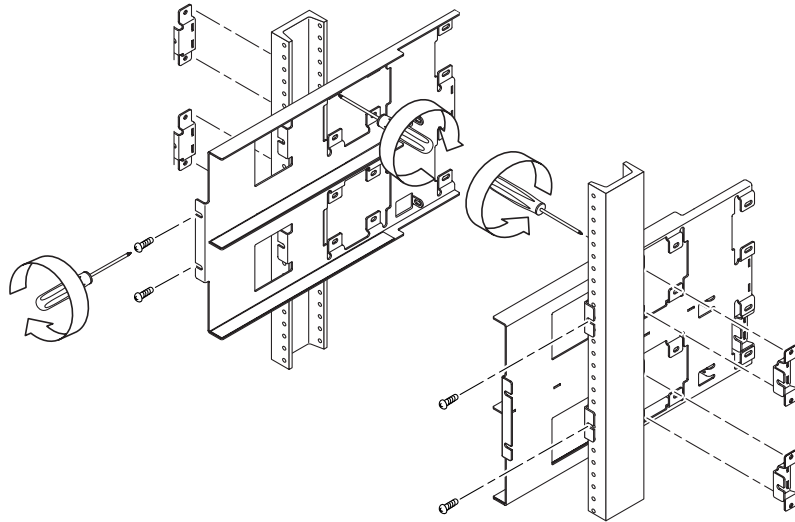
**Note** – Rear brackets are optional for 2-post rack configurations.

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- 2. Position the left side rail in the rack to the lowest empty slot, aligning the rail with the holes in the rack.**

- 3. Secure the left side rail to the rack.**

Secure the front of the rail using two screws (part number 240-3840-01) provided in the rackmount kit.



**FIGURE 8** Attaching side rails to a 2-post rack.

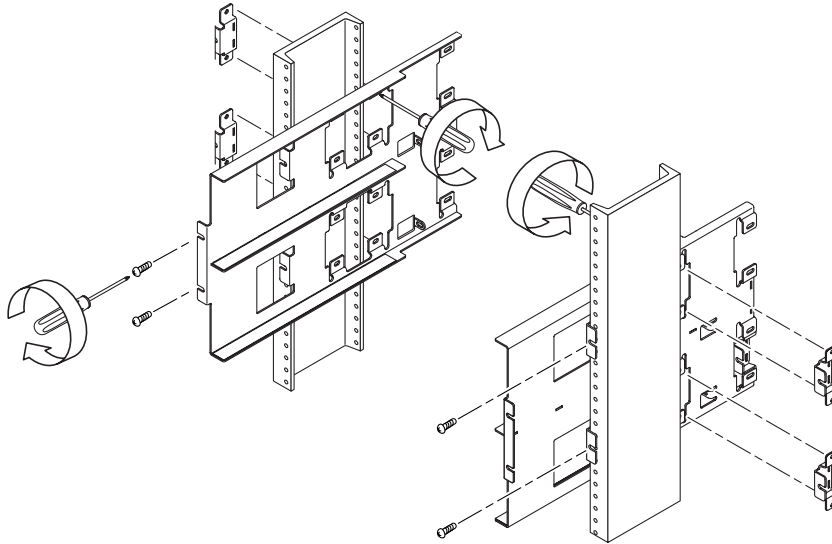
**4. Repeat Step 3 to attach the right rail to the rack.**

Make sure to align the left rail with the right rail.

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**Note** – Brackets are optional for 2-post configurations.

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**FIGURE 9** Alternate rack configuration: attaching side rails to a 2-post 5" and 6" rack.

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**Note** – Brackets are optional only for 2-post 3" and 6" rack configurations.

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## Installing the Array in the Rack



**Caution** – The rack can become front-heavy while a array is being installed. Unless your rack is bolted to the floor, ensure that the stabilizer legs are extended before proceeding. Failure to extend the legs can result in the rack tipping forward and injuring personnel.

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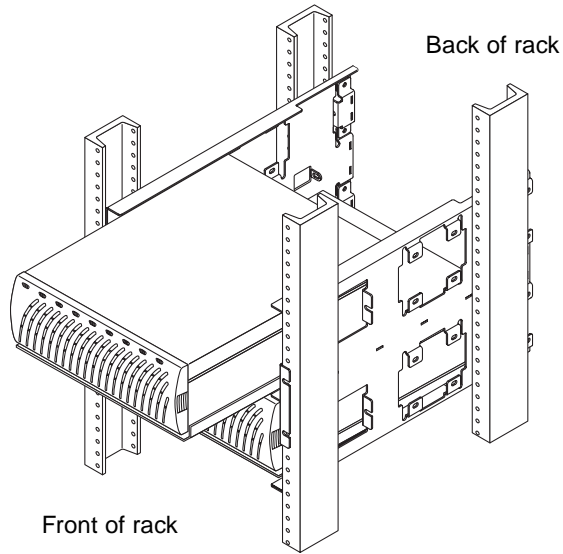


**Caution** – This installation requires two people to lift and move the array. Use care to avoid injury. A array with a support plate attached can weigh up to 87 pounds (39 kg).

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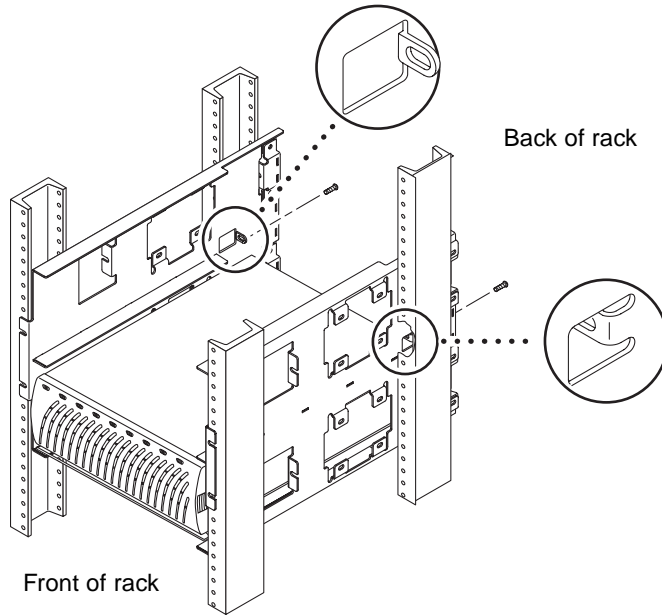
1. With the aid of an assistant, lift the array (one person on each side) and approach the rack with the back of the array entering the front of the rack.

2. Align the array with the side rails, and slide the array in the rack (FIGURE 10).



**FIGURE 10** Sliding the Array in the Rack

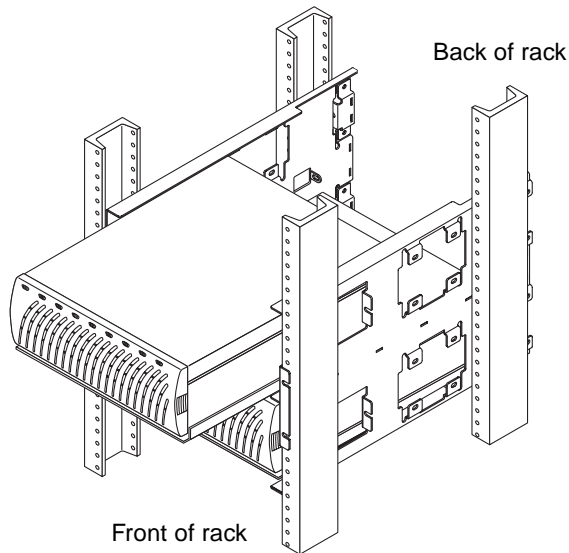
3. Secure the array to the side rails by inserting two screws (part number 240-3017-01) into the support plate at the back of the array chassis (FIGURE 11).



**FIGURE 11** Securing the Array to the Side Rails



4. Repeat Step 1 through Step 3 to install a second array (FIGURE 12).



**FIGURE 12** Installing a Second Array

After you have installed the array in the rack, refer to Chapter 2 of the *Sun StorEdge T3 and T3+ Array Installation, Operation, and Service Manual* for instructions about how to cable the arrays.



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**Caution** – If you need to remove the array, make sure you have someone to assist you; one of you should be positioned at the front of the rack and the other one should be at the back. The person at the back of the rack can push it forward slightly after removing the mounting screws. The person at the front of the rack should be ready to take hold and stabilize the tray once it starts to move forward. Use two people to pull it out of the rails completely.

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