



# Cisco Center Rack-Mount Kits Installation Note

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**Product Numbers: WS-C6597= and WS-6513-RACK-MNT=**

This installation note contains instructions on how to install the Catalyst 6500 series switches in a telco-style rack using the two center rack-mount kits.



**Note**

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Use these kits in place of the rack-mount brackets shipped installed on the chassis, and only when you are center rack-mounting a Catalyst switch in a telco-style rack.

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## Contents

This installation note contains the following sections:

- [Overview, page 2](#)
- [Safety, page 2](#)
- [Tools Required, page 9](#)
- [Center Rack-Mounting a Catalyst 6506 and Catalyst 6506-E Switch Chassis, page 9](#)
- [Center Rack-Mounting a Catalyst 6509 and Catalyst 6509-E Switch Chassis, page 11](#)
- [Center Rack-Mounting a Catalyst 6513 Switch Chassis, page 13](#)
- [Obtaining Documentation and Submitting a Service Request, page 16](#)



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**Corporate Headquarters:**

**Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA**

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# Overview

The two center rack-mount kits and the Catalyst switch chassis they support are listed in [Table 1](#).

**Table 1** *Center Rack-Mount Kits*

Center Rack-Mount Kit Product Number	Catalyst 6500 Series Switch Chassis Supported
WS-C6597	Catalyst 6506 Catalyst 6506-E Catalyst 6509 Catalyst 6509-E
WS-6513-RACK-MNT	Catalyst 6513



**Note**

The center rack-mount kits are not supported on the Catalyst 6503, Catalyst 6503-E, and Catalyst 6509-NEB, and Catalyst 6509-NEB-A switch chassis.

The center rack-mount kits are installed differently depending on the chassis. [Table 2](#) lists the switch chassis and summarizes how the center rack-mount kits are installed.

**Table 2** *Center Rack-Mount Kit Usage*

Chassis	Center Rack-Mount Kit Usage
Catalyst 6506 and Catalyst 6506-E switches	WS-C6597. The two brackets are attached to the chassis with screws.
Catalyst 6506 and Catalyst 6506-E switches	WS-C6597. The two brackets are attached to the chassis with screws.
Catalyst 6513 switch	WS-6513-RACK-MNT. The smaller L brackets are attached to the rack only and are used as a shelf to support the chassis. The two larger L brackets attach to the sides of the chassis and to the rack.

## Safety

Safety warnings appear throughout this publication in procedures that may harm you if performed incorrectly. A warning symbol precedes each warning statement.

## Statement 1071—Warning Definition



Warning

### IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

### SAVE THESE INSTRUCTIONS

Waarschuwing

### BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

### BEWAAR DEZE INSTRUCTIES

Varoitus

### TÄRKEITÄ TURVALLISUUSOHJEITA

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

### SÄILYTÄ NÄMÄ OHJEET

Attention

### IMPORTANTES INFORMATIONS DE SÉCURITÉ

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

### CONSERVEZ CES INFORMATIONS

**Warnung WICHTIGE SICHERHEITSHINWEISE**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

**BEWAHREN SIE DIESE HINWEISE GUT AUF.**

**Avvertenza IMPORTANTI ISTRUZIONI SULLA SICUREZZA**

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

**CONSERVARE QUESTE ISTRUZIONI**

**Advarsel VIKTIGE SIKKERHETSINSTRUKSJONER**

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

**TA VARE PÅ DISSE INSTRUKSJONENE**

**Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

**GUARDE ESTAS INSTRUÇÕES**

**¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

**GUARDE ESTAS INSTRUCCIONES**

**Varning! VIKTIGA SÄKERHETSANVISNINGAR**

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

**SPARA DESSA ANVISNINGAR****FONTOS BIZTONSÁGI ELOÍRÁSOK**

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelt biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.

**ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!****Предупреждение****ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ**

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

**СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ****警告 重要的安全性说明**

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

**警告 安全上の重要な注意事項**

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

**주의**    **중요 안전 지침**

이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.

이 지시 사항을 보관하십시오.

**Aviso**    **INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

**Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.**

**GUARDE ESTAS INSTRUÇÕES****Advarsel**    **VIGTIGE SIKKERHEDSANVISNINGER**

**Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemeskadedigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.**

**GEM DISSE ANVISNINGER****تحذير****إرشادات الأمان الهامة**

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمة الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

**Upozorenje**    **VAŽNE SIGURNOSNE NAPOMENE**

**Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.**

**SAČUVAJTE OVE UPUTE**

**Upozornění DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY**

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

**USCHOVEJTE TYTO POKYNY****Προειδοποίηση ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ**

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνηθισμένες πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

**ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ****אזהרה****הוראות בטיחות חשובות**

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

**שמור הוראות אלה****Opomena VAŽNI BEZBEDNOSNI NAPATSTVIJA**

Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.

**ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА**

**Ostrzeżenie WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA**

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

**NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ****Upozornenie DÔLEŽITÉ BEZPEČNOSTNÉ POKYNY**

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

**USCHOVAJTE SI TENTO NÁVOD****Warning**

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006

**Warning**

**Only trained and qualified personnel should be allowed to install, replace, or service this equipment.**  
Statement 1030

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## Tools Required

You will need the following tools to install the center rack-mount kits on your 6-, 9-, or 13-slot chassis. If you need additional parts or assistance, contact your technical support representative.

- Number 1 Phillips screwdriver for the M4 screws.
- Number 2 Phillips screwdriver for the 10-32 and 12-24 screws.
- Tape measure for leveling the rack-mount kit brackets and the chassis (optional).
- Level for leveling the rack-mount kit brackets and the chassis (recommended).

## Center Rack-Mounting a Catalyst 6506 and Catalyst 6506-E Switch Chassis

This section describes how to install the Catalyst 6506 and Catalyst 6506-E switch chassis in a telco-style rack using the center rack-mount kit (WS-C6597=). For the Catalyst 6506 and Catalyst 6506-E switch chassis, you need to install the two center rack-mount kit brackets to the bottom sides of the chassis.

**Note**

Use this kit in place of the rack-mount brackets shipped installed on the chassis, and only when you are center rack-mounting a Catalyst switch in a telco-style rack.

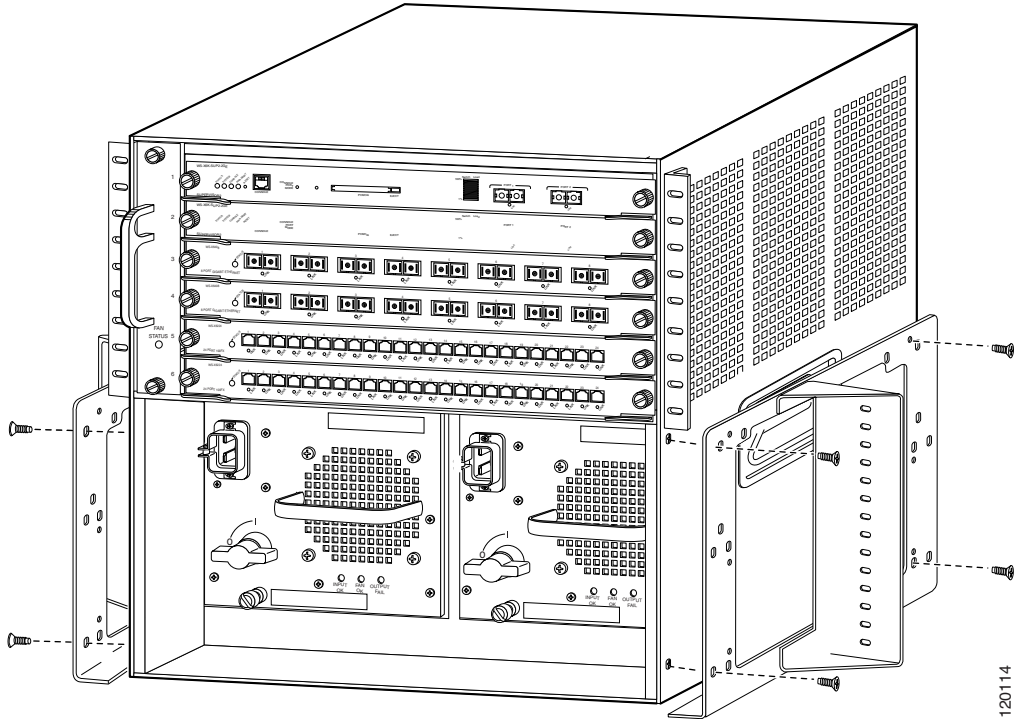
**Note**

To make handling the chassis easier, you should remove all modules and power supplies before you install the chassis in the rack. The illustrations that show the modules and power supplies in the following procedure are for reference purposes only.

To install the Catalyst 6506 or Catalyst 6506-E switch chassis in a telco-style rack using the WS-C6597 center rack-mount kit, perform these steps:

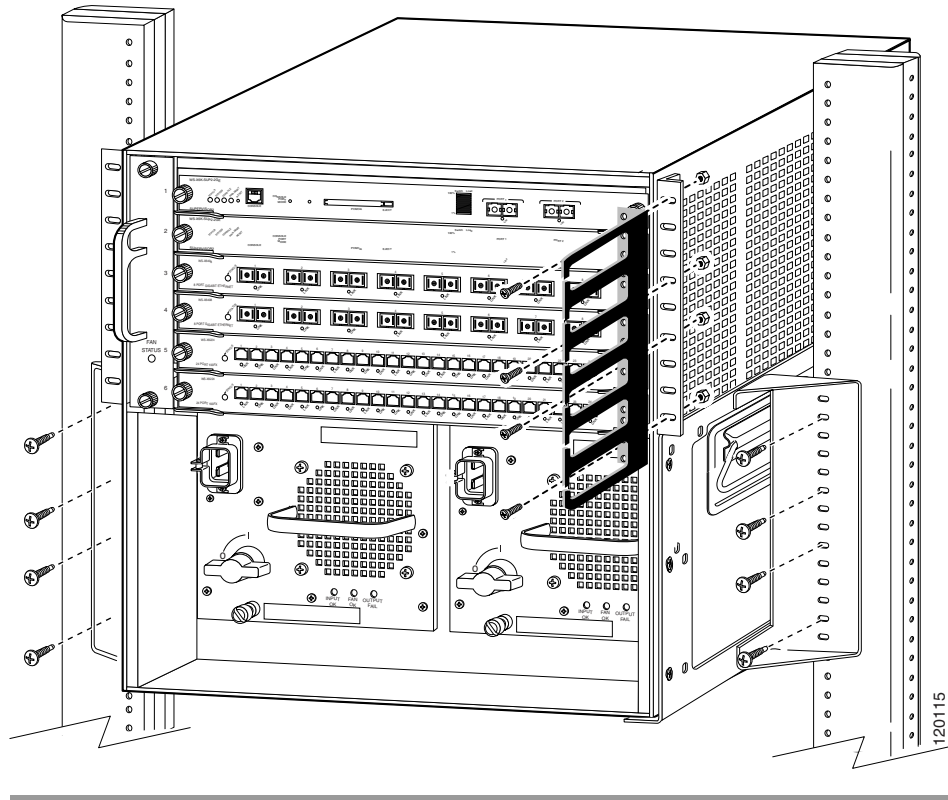
- Step 1** Remove the two brackets and the bag of screws from the packaging.
- Step 2** Attach the two brackets to the sides of the chassis with 4 M4 screws on each side. (See [Figure 1](#).)

**Figure 1** Attaching the Center Rack-Mount Kit Brackets to the Catalyst 6506 and Catalyst 6506-E Switch Chassis



**Step 3** Position the chassis in the rack and secure the center rack-mount kit brackets to the telco-style rack with 8 12-24 x 3/4 inch or 10-32 x 3/4 inch screws (4 on each side.). (See [Figure 2.](#)) Use a level or measuring tape to verify that the chassis is level in the rack.

**Figure 2** Installing the Catalyst 6506 and Catalyst 6506-E Switch Chassis in a Telco-Style Rack



## Center Rack-Mounting a Catalyst 6509 and Catalyst 6509-E Switch Chassis

This section describes how to rack-mount a Catalyst 6509 and Catalyst 6509-E switch chassis in a telco-style rack using the WS-C6597 center rack-mount kit. For the Catalyst 6509 and Catalyst 6509-E switch chassis, you need to install the two center rack-mount kit brackets to the bottom sides of the chassis.



**Note**

Use this kit in place of the rack-mount brackets shipped installed on the chassis, and only when you are center rack-mounting a Catalyst switch in a telco-style rack.



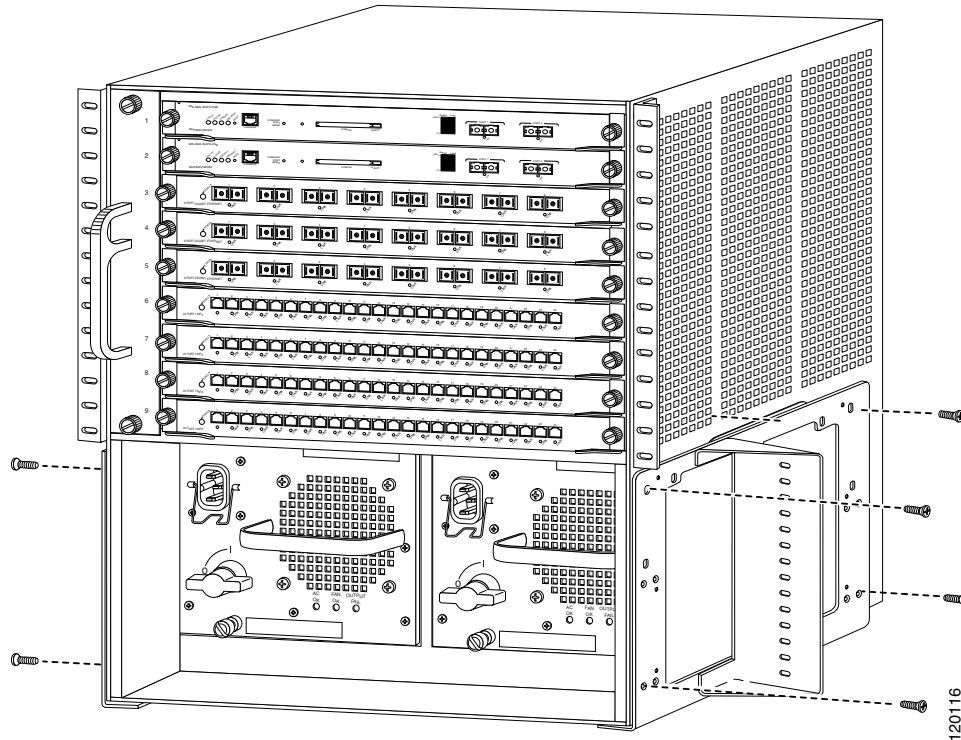
**Note**

To make handling the chassis easier, you should remove all modules and power supplies before you install the chassis in the rack. The illustrations that show the modules and power supplies in the following procedure are for reference purposes only.

To install the Catalyst 6509 and Catalyst 6509-E switch chassis in a telco-style rack using the WS-C6597 center rack-mount kit, perform these steps:

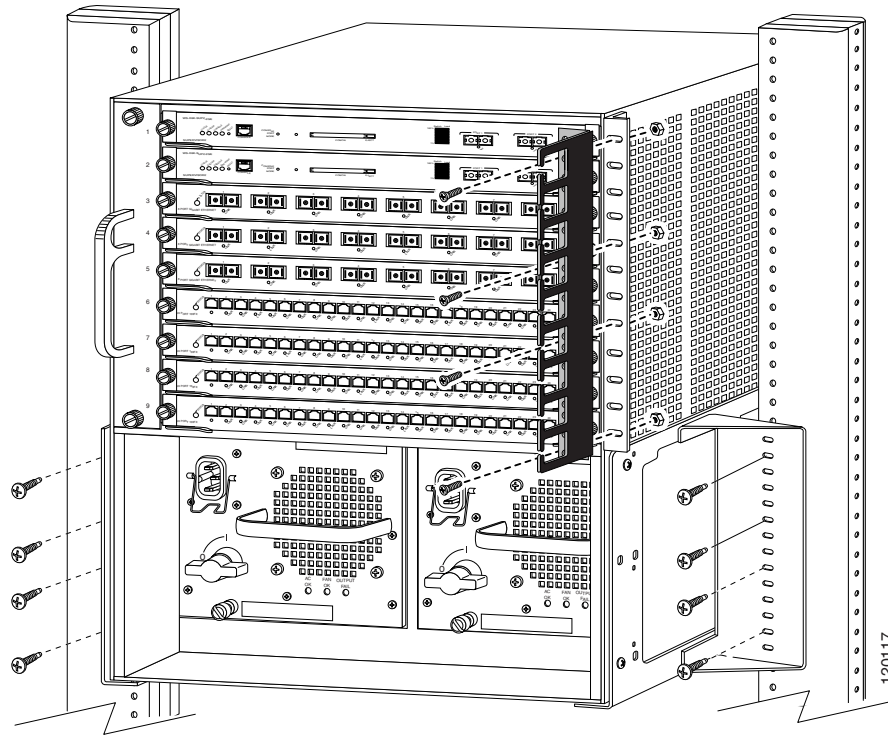
- Step 1** Remove the two brackets and the bag of screws from the packaging.
- Step 2** Attach the two center rack-mount kit brackets to the sides of the chassis with 4 M4 screws on each side. (See [Figure 3](#).)

**Figure 3** Attaching the Center Rack-Mount Kit Brackets to the Catalyst 6509 and Catalyst 6509-E Switch Chassis



- Step 3** Position the chassis in the rack and secure the center rack-mount kit brackets to the telco-style rack with 8 12-24 x 3/4 inch or 10-32 x 3/4 inch screws (4 on each side). (See [Figure 4](#).) Use a level or measuring tape to verify that the chassis is level in the rack.

**Figure 4** Installing the Catalyst 6509 and Catalyst 6509-E Switch Chassis in a Telco-Style Rack



## Center Rack-Mounting a Catalyst 6513 Switch Chassis

This section describes how to install the Catalyst 6513 chassis in a telco-style rack using the WS-6513-RACK-MNT center rack-mount kit. In this procedure, the two lower brackets are used as a shelf and are not attached to the chassis. The two upper brackets are attached to the chassis and are secured to the telco-style rack.



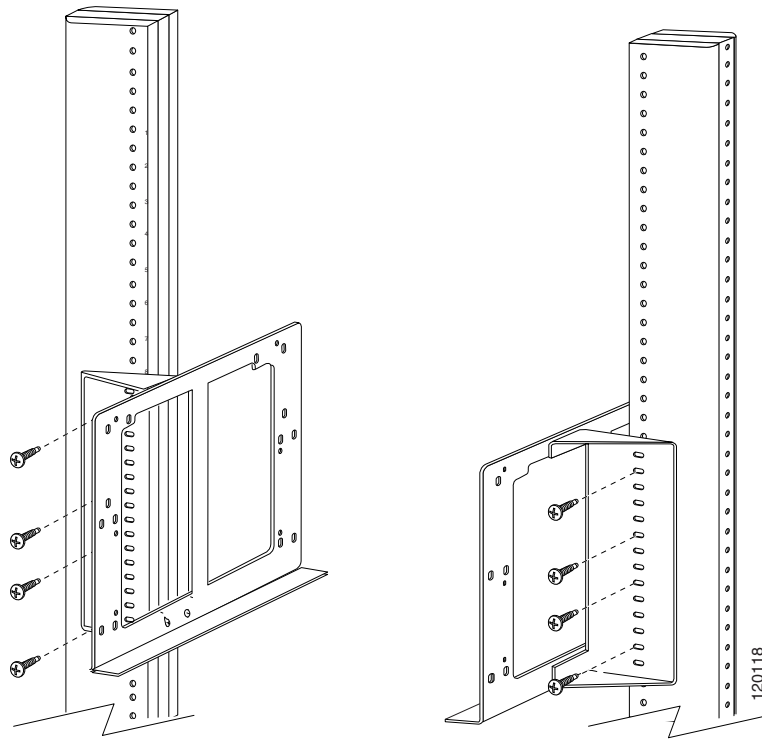
### Note

To make handling the chassis easier, you should remove all modules and power supplies before you install the chassis in the rack. The illustrations that show the modules and power supplies in the following procedure are for reference purposes only.

To install the Catalyst 6513 chassis in a telco-style rack using the WS-6513-RACK-MNT center rack-mount kit, perform these steps:

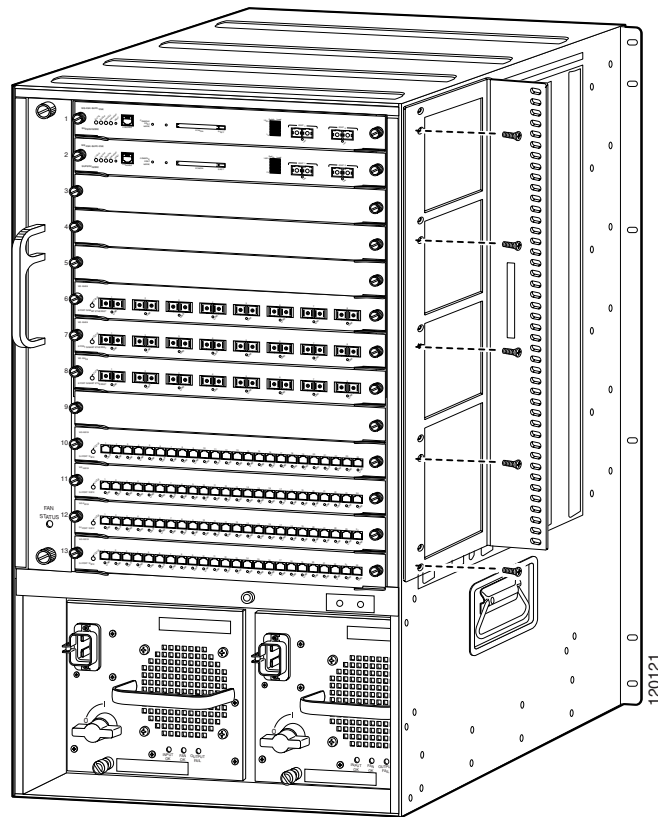
- Step 1** Remove the four brackets and the bag of screws from the packaging.
- Step 2** Position and install the two lower brackets in the rack using 8 10-32 or 12-24 screws (4 on each side). Use the level and tape measure to position the brackets so that they are level. (See [Figure 5](#).)

**Figure 5** Attaching the Center Rack-Mount Kit Brackets to the Telco-Style Rack



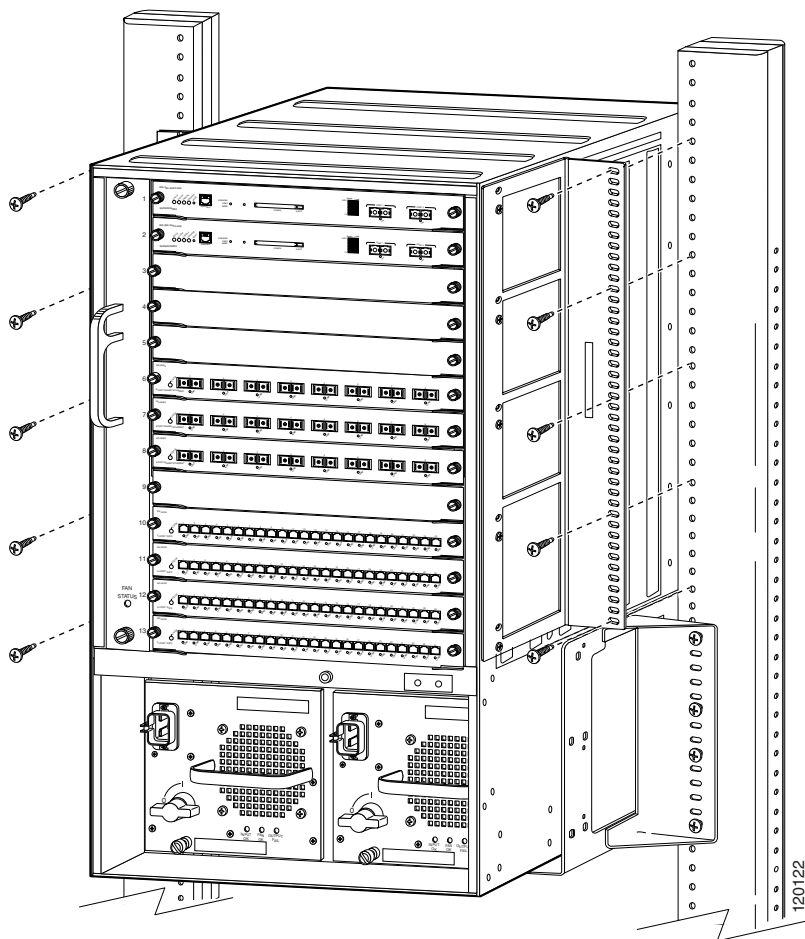
**Step 3** Attach the large L-brackets to the sides of the chassis using 5 M4 x 8 mm screws on each side. (See [Figure 6.](#))

**Figure 6** Attaching the Upper Brackets to the Catalyst 6513 Switch Chassis



- Step 4** Lift the chassis and position it in front of the two brackets attached to the rack. Slide the chassis into the rack so that the two L-brackets are in contact with the rack.
- Step 5** Secure the chassis to the rack with 10 10-32 or 12-24 screws (5 on each side). (See [Figure 7](#).)

**Figure 7**      **Securing the Catalyst 6513 Switch Chassis in the Telco-Style Rack**



## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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