



Expanding an S6 System

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Product features, specifications, system requirements, and availability are subject to change without notice.

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Part I: Introduction

Chapter 1: Introduction

This guide provides instructions for disassembling a Pro Tools® | S6 in order to move or expand the system.

Important

Before you begin:

- Make sure you have a padded tabletop or other flat surface nearby to place components and modules as they are removed.
- While disassembling, be sure to keep all fasteners and components organized, to simplify re-assembly. To simplify fastener organization, print the pages of [Appendix A, “Labels for Fasteners”](#) and cut out the labels provided for each stage of disassembly.
- Make sure you have a copy of the *S6 Installation Guide* available to refer to when re-assembling the system. A printed version is included with the S6 Master Module, and you can download the most recent edition from your Avid account or from our Knowledge Base (see [“Resources” on page 5](#)).
- Never attempt to lift or move an assembled S6 desktop system if it is five or more chassis in width (32 or more faders) to avoid risk of damage to the frame. If you need to move a five chassis-or-wider S6 system that does not include Legs, you must partially disassemble the frame so that no section is more than four chassis in width. If your system does include Legs, partially disassemble the frame so that no section is more than four chassis in width and remove those sections from the leg frame.
- Also, do not attempt to move or lift any chassis by the Side Covers, Bolster, or Rear Panels (they can break). Move or lift while holding on to the metal chassis (frame) instead, or remove them as described in this guide.

Required Tools

The following tools are required to disassemble and reassemble the S6 frame (included in the original Side Covers package):

- Hex M2.5
- Hex M3
- Hex M4
- Hex M5
- Hex M6
- Phillips screwdriver #1 (long)
- Phillip screw driver #2
- Small flat screw driver



The Side Covers package also includes a bag of extra fasteners and washers.

Legs

For a system with Legs, the following tools are required to disassemble and re-assemble Leg Frames.

- One open end wrench (13 mm)



We recommend using a level (not included) to help level the Leg Frame.

Overview of Disassembly for Moving, Customizing or Expanding a System

S6 systems can be customized by adding hardware options, disassembled for moving, and expanded by adding modules or chassis.

Customizing a System with Hardware Options

You can add any of the following hardware options to S6 M10 or M40 systems:

- Instructions for installing a Keyboard Tray, SpeakerDeck, Script Tray, VESA Mount, Frame Panel Large Center or other Fill Panel are included with the hardware option.
- You only need to disassemble a frame if you are adding new chassis and modules, a Producers Desk, Leg Frame, Leg Frame Extension, or Leg Frame Join Module to an existing system. Follow the instructions in this guide to disassemble the frame as necessary, then do the following to re-assemble the system:
 - For the Producers Desk and Leg Frame, refer to the *S6 Installation Guide* for assembly instructions.
 - To add a Leg Frame Extension or Leg Frame Join Module to an existing system, use the instructions in this guide to disassemble the frame and add the Leg Frame Extension or Join Module.

Moving a System

Before moving any system that is five or more chassis in width, the frame must be partially disassembled so no section is more than four chassis in width. Use the instructions in this guide to determine where and how to disassemble the frame.

Expanding a System with Additional Modules or Chassis

S6 systems can be disassembled to expand the system by adding or rearranging modules, or by adding chassis.

- You can add Display Modules to M40 systems (not M10) at any time, up to the capacity of the frame (one per channel section).
- You can add additional modules to expand a system in numerous ways, including the following:
 - Add Fader, Process, and Knob Modules to increase the number of faders strips.
 - Add Knob Modules for Expand Zones (up to two on M40 systems, or one on M10 systems).
 - Add a Master Joystick Module or other optional module for extended functionality.

New modules can be added to existing chassis if there are available slots. In some cases, such as when installing modules into a Producers Desk for the first time, additional components such as cable sets, PSUs, and/or network switch ports (or an additional switch) are required.

- You can expand Leg or Desktop frames by adding one or more chassis in order to add or rearrange modules. This usually requires partially disassembling the frame first, installing the additional chassis, installing additional cable sets, PSUs, and network switch ports (or an additional switch), and then adding or re-installing modules.

For details on what you can add to your particular system and configuration, and what is required, contact your Avid reseller.

How to Proceed

To get started, see [Chapter 2, “Initial Disassembly.”](#)

About This Guide

This section describes elements of this guide, and provides tips for navigating and searching.

Conventions Used in This Guide

All of our guides use the following conventions to indicate menu choices and key commands:

Convention	Action
Settings > Surface	Navigate the Master Module to the Settings screen, then tap to select the Surface page
Control+N	Hold down the Control key and press the N key
Control-click	Hold down the Control key and click the mouse button
Right-click	Click with the right mouse button

The names of Commands, Options, and Settings that appear on-screen are in a different font.

The names of switches and keys on the control surface are shown in bold (such as **Select**). In addition, the **Shift** switch on the Master Module is always shown in bold to distinguish it from the Shift switch on the computer keyboard.

The following symbols are used to highlight important information:



User Tips are helpful hints for getting the most from your system.



Important Notices include information that could affect your data or the performance of your system.



Shortcuts show you useful keyboard or mouse shortcuts.



Cross References point to related sections in this guide and other Avid guides.

How to Use this PDF Guide

These are some useful features of this PDF:

- The Bookmarks on the left serve as a continuously visible table of contents. Click on a subject heading to jump to that page.
 - Click a + symbol to expand that heading to show subheadings. Click the – symbol to collapse a subheading.
- The Table of Contents provides active links to their pages. Select the hand cursor, allow it to hover over the heading until it turns into a finger. Then click to locate to that subject and page.
- All text and cross references in **blue** are active links. Click to follow the reference.
- Select Find from the Edit menu to search for a subject.

Resources

The Avid website (www.avid.com) is your best online source for information to help you get the most out of your Avid system. The following are just a few of the services and features available.

Account Activation and Product Registration

Activate your product to access downloads in your Avid account (or quickly create an account if you don't have one). Register your purchase online, download software, updates, documentation, and other resources.

<https://www.avid.com/account>

Support and Downloads

Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Avid user community on the User Conference.

<https://www.avid.com/Support/index.html>

Knowledge Base for S6 downloads:

<http://avid.force.com/pkb/articles/faq/Avid-S6-Support>

Training and Education

Study on your own using courses available online or find out how you can learn in a classroom setting at an Avid-certified training center. For example, check out the series of Get Started Fast with S6, available from the main S6 product page:

<http://www.avid.com/products/avid-S6>

Products and Developers

Learn about Avid products; download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

<https://www.avid.com/Products/index.html>

News and Events

Get the latest news from Avid or sign up for an S6 demo.

Part II: Disassembly

Chapter 2: Initial Disassembly

This section explains how to do the following initial disassembly steps, all of which are required whether you are moving or expanding a frame:

- **Updating the Surface Settings**
- **Shutting Down the System**
- **Removing Hardware Options**
- **Removing the Rear Covers**
- **Disconnecting Power Cables and Removing the Power Strip**
- **Removing Display Modules**
- **Removing T-Strips**
- **Removing Compression Panels and Fill Panels**

Updating the Surface Settings

Before physically removing modules that will not be reinstalled in that system, you must update the surface configuration from the Surface > Settings page to remove (or “unclaim”) them. This can occur when moving a module to a different S6 system, or launching the system while the module is missing.

To remove a module from the surface configuration:

- 1 Navigate the Master Module touchscreen to the Surface > Settings page, then touch Config.
- 2 In the screen to select Frame Depth and Frame Width, press Next.
At the top of the screen, allowable module arrangements appear in columns.
- 3 Drag a blank strip over the module(s) you are removing.
If the Master Module is being removed, drag blank strips over all channel sections and then replace the Master Module section with *only* the Master Module (no Automation Module).
- 4 Press Next.
- 5 In the next screen, drag blank strips over Display Modules (if any) then press Next.

Temporarily Unclaiming a Module

If you forget to remove a module from the surface arrangement before physically moving it to another system, you can temporarily unclaim it after the new systems boots by holding the top two right-most switches on that module. However, it will reset back to its previous owner after a power cycle if not properly claimed by another system by adding it to that system’s arrangement.

Unclaiming Display Modules

To unclaim a Display Module:

- 1 Create a file named “unclaim.txt” and copy it to a FAT-formatted USB flash drive.
- 2 Plug the USB drive into the Display Module you want to unclaim. After a few seconds, the Display Module screen displays a “Not Connected” message indicating that the process is complete.
- 3 Be sure to add the Display Module back to your configuration. While doing so in the Settings > Surface, Config screen, the module and/or its vacant slot might display red as if they are unavailable. This can be ignored, however, and you can drag the module back into the surface configuration to reclaim it.

Shutting Down the System

To shut down the system:

- 1 Navigate the Touchscreen to **Settings > About** page, then touch **Shut Down**. Wait until the Master Module has completely shut down before proceeding.

! *Always shut down the Master Module from the About page before powering down the system!*

- 2 Turn off the source that supplies power to the S6 Power Strip (UPS, power conditioner or other).

Removing Hardware Options

If your system includes a Keyboard Tray, Script Tracy, Speaker Deck, or VESA Arm option, remove them and any items mounted on them such as keyboards, speakers or computer displays before proceeding.

Removing the Rear Covers

Remove the upper Rear Covers to access cables and other components. We recommend removing all upper Rear Covers.

To remove the upper Rear Covers:

- 1 Standing at the back of the system, start at the far-right (see Figure 1).
- 2 Loosen the thumbscrews that hold the upper covers to their mounting brackets and then lift the covers off.

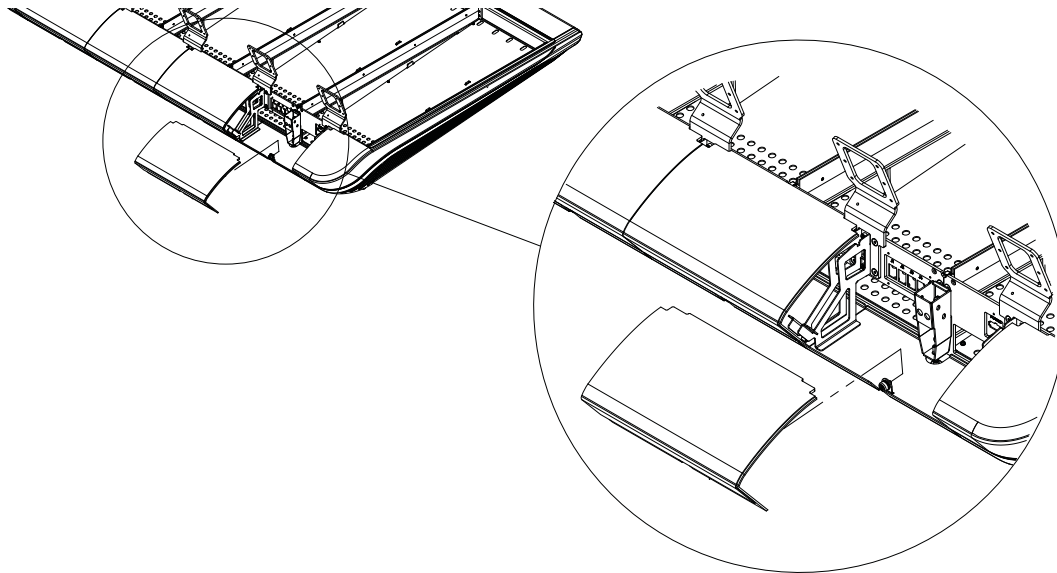


Figure 1. Removing the upper Rear Covers (Display Modules and cables not shown)

Disconnecting Power Cables and Removing the Power Strip

To remove the power strip:

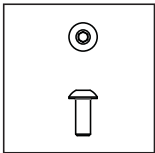
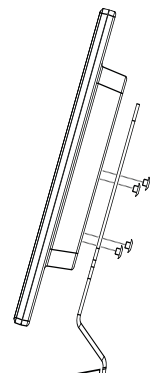
- 1 Unplug the power strip from its source.
- 2 Disconnect all power cables connected to the S6 Power Strip (AC cables from chassis PSUs and network switch(es)).
- 3 Pull the power cable for the S6 Power Strip back up through its channel where the Side Cover meets the frame, then remove the power strip and set it aside.

Removing Display Modules

If your M40 system includes Display Modules, remove them next. Otherwise, proceed to **“Removing T-Strips”** on page 9.

To remove Display Modules:

- 1 Disconnect power and Ethernet cables connected to the Display Modules.
- 2 While holding the Display Module with one hand, remove the four fasteners that secure the first Display Module to its mounting bracket.



Fastener	M4x10 BCHS
Tool	M2.5 Hex

Figure 2. Removing a Display Module from its mounting bracket (side view)

- 3 Set the Display Module(s) face-down on a flat surface.

Removing T-Strips

To remove T-strips:

- Remove the T-strips from between chassis, one at a time. Start at the top (back) of the control surface and use a small flat-head screwdriver to push down on the tab that holds the T-strip in place, then lift the strip out.

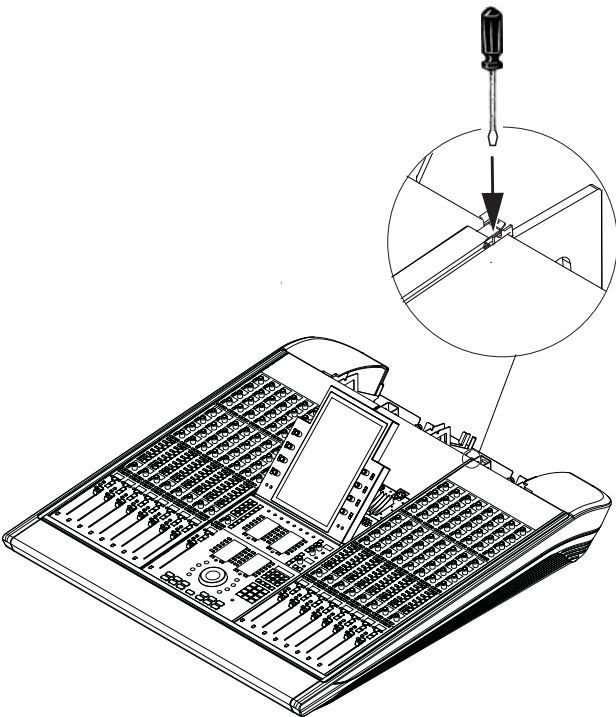


Figure 3. Removing T-strips

Removing Compression Panels and Fill Panels

To remove Compression Panels:

- Remove Compression Panels from the top-most slot of each chassis. Push them gently towards the back of the console to compress their built-in springs, then lift out the front edge and remove the panel.

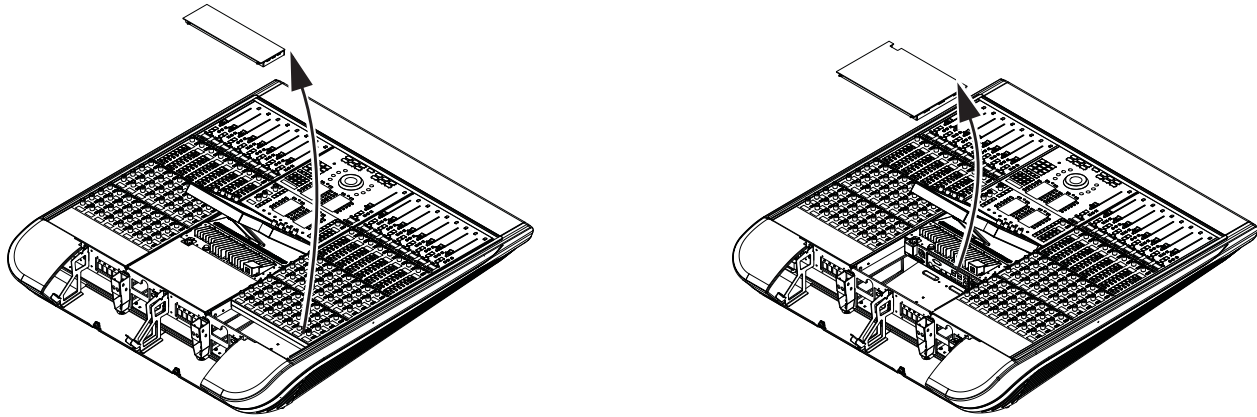


Figure 4. Removing a Channel Compression Panel (left) and a Master Compression Panel (right)

To remove Fill Panels:

- Lift Fill Panels out of their slots.

How to Proceed

After completing the disassembly instructions in this chapter, proceed to [Chapter 3, “Removing Modules and Disconnecting Cabling.”](#)

Chapter 3: Removing Modules and Disconnecting Cabling

This section explains how to remove modules and cables.

It is recommended that you remove all modules and Cable Sets from the system before disassembling a frame to move it or to expand it. Chassis cannot be detached without removing modules from at least one chassis, but it is safer to remove all modules. Doing so makes it easier and safer to move the disassembled frame sections, and protects modules and cables from risk of damage.

Removing Modules

After removing upper Rear Covers, T-strips and compression panels as described in [Chapter 2, “Initial Disassembly”](#), you can remove modules.

Remove modules by doing the following:

- 1 Make sure you have a padded tabletop or other flat surface to place each module as it is removed. Try to arrange removed modules in the same order and relative positions as they are in the assembled system to simplify reinstalling them later.
- 2 If your system includes Display Modules, remove them first (see [“Removing Display Modules” on page 9](#)) and place them on the table face down.
- 3 Beginning with the top module (usually a Knob Module), remove each by lifting them out of their chassis. Be careful not to strain the power or Ethernet cables.
- 4 Disconnect power, Ethernet and any other cables connected to the module (such as Talkback and KVM). A Master Module has two Ethernet and two power connections.



When removing a Master Module, note which back panel Ethernet port (1 or 2) it is connected to, unless it will be connected in a different network configuration after reassembly.

- 5 Set each module aside.
- 6 Repeat for all other modules.

Disconnecting Cable Sets

To disassemble a frame to move or expand a system, you should disconnect and remove all Cable Sets.

To disconnect Cable Sets:

- 1 Standing behind the system, start at either end and disconnect the Ethernet Cable Set from the back of the first chassis (far left or far right).

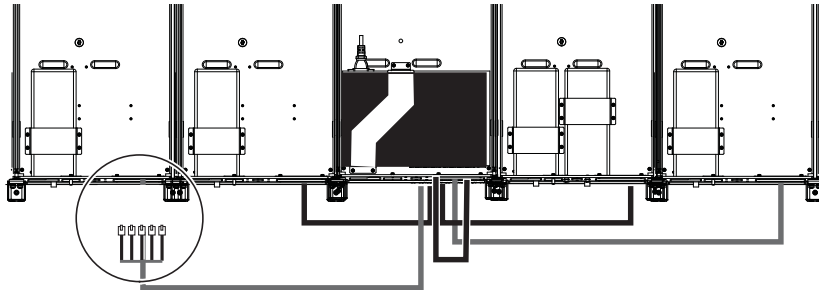



Figure 5. Disconnecting the Cable Set attached to the far left chassis of a five-wide frame

- 2 Disconnect the other ends of that Cable Set from the S6 network switch, taking note of its switch ports. You do not have to reconnect to the same switch ports but doing so can simplify re-assembly.
 - 3 Place the removed Cable Set aside.
 - 4 Move to the next chassis, disconnect its Cable Set, then disconnect the other ends from their network switch ports.
 - 5 Repeat for all remaining Cable Sets.
 - 6 Disconnect the Ethernet cable(s) that connect the S6 network switch to external workstations or networks, and remove it from the frame.
 - 7 If your system includes two network switches, be sure to disconnect the cable connecting them to each other.
- ⚠** *If you have not already done so, make sure to disconnect the AC power cables for the network switch(es) and PSUs from the S6 Power Strip, and remove the Power Strip from the back of the frame.*
- 8 When all Cable Sets are removed, proceed to [Chapter 4, “Detaching Chassis.”](#)

Chapter 4: Detaching Chassis

This section explains how to determine which chassis to detach in order to move or expand a frame, and shows you how to remove frame components and detach chassis.

 *Components and systems are heavy! We recommend using four people, one to lift each corner. Never attempt to move a system that is five or more chassis in width. Never move or lift a chassis of any size by the Side Covers, Bolster, or Rear Covers as they can break. Move or lift while holding the metal chassis frame instead.*

Determine Which Chassis to Detach

Whether you are moving or expanding a system, certain chassis must be detached from each other:

- When moving a system, certain chassis might need to be detached so that no section (multiple attached chassis) is more than five chassis in width.
- When adding one or more chassis to a system, some chassis must be detached before adding another.
- Whether moving or expanding a system that is nine or more chassis in width, multiple pairs of chassis must be detached so that no section is five or more chassis in width.

Guidelines to Determine Which Chassis to Detach

The diagrams in the following sections show where to detach chassis to move or expand Avid-configured S6 systems, which range in size from 8-fader/2-chassis, up to 32-fader/5-chassis, as well as custom S6 configurations:

- **[“Disassembling Avid Configurations” on page 14](#)**
- **[“Disassembling Custom S6 Configurations” on page 15](#)**

Moving a System The frame only needs to be disassembled when it is five or more chassis in width. Never attempt to move a frame or section of a frame of five or more chassis. Diagrams for these size chassis begin with **“5-Chassis” on page 14**.

Expanding a System To expand a frame, it is more efficient to add new chassis within the frame instead of adding them to the far right or far left. This reduces the amount of components that need to be removed and reattached. Since this requires that existing, attached chassis must be lifted and moved (especially if expanding a Leg Frame system), use the diagrams on the following pages to determine where to detach chassis.

Guidelines for Leg Frame Systems

If your system includes Legs, first follow the instructions in this section to detach chassis so that no chassis section is more than four chassis in width, then remove all chassis from the Leg Frame.



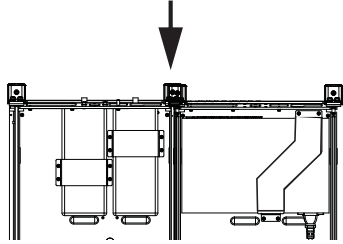
For more information, see Chapter 5, “Disassembling and Expanding Leg Frames.”

Disassembling Avid Configurations

Use these diagrams to determine which chassis to detach, then proceed to **“Disassembling a Frame” on page 16**. For larger custom configurations see **“Disassembling Custom S6 Configurations” on page 15**.

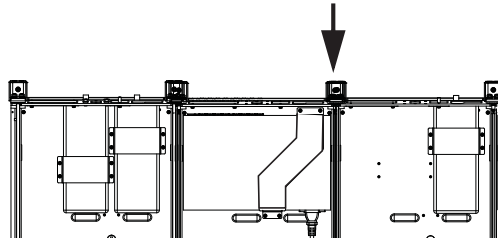
💡 *The following diagrams do not show cable harnesses, Rear Cover brackets, Side Covers, or the Producers Desk option. If your system includes a Producers Desk, it counts as two chassis when determining system width.*

2-Chassis



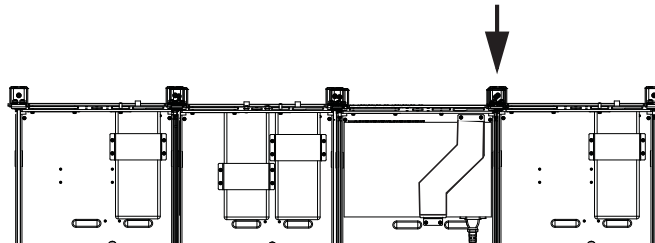
Where to detach chassis to expand a two-chassis frame

3-Chassis



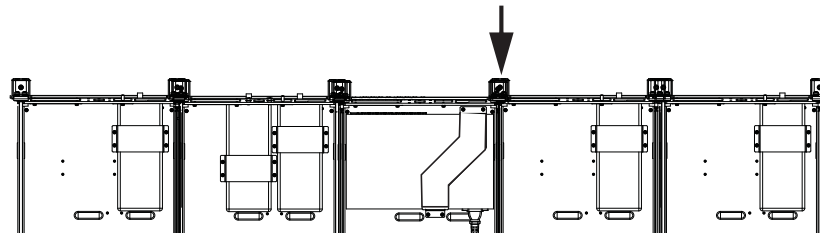
Where to detach chassis to expand a three-chassis frame

4-Chassis



Where to detach chassis to expand a four-chassis frame

5-Chassis



Where to detach chassis to move or expand a five-chassis frame

Disassembling Custom S6 Configurations

These diagrams show where to detach chassis to move or expand systems that are six or more chassis in width.

6-Chassis

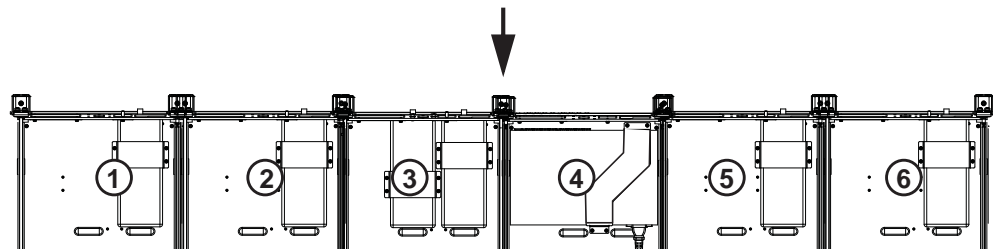


Figure 6. Where to detach chassis to move or expand a six-chassis frame

7-Chassis

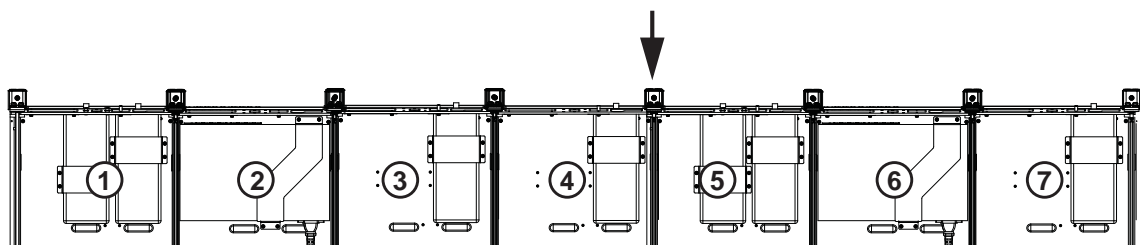


Figure 7. Where to detach chassis to move or expand a seven-chassis frame

9-Chassis

9-Chassis systems require two pairs of chassis to be detached before moving. We recommend detaching where indicated in Figure 8 to minimize the weight of all sections.

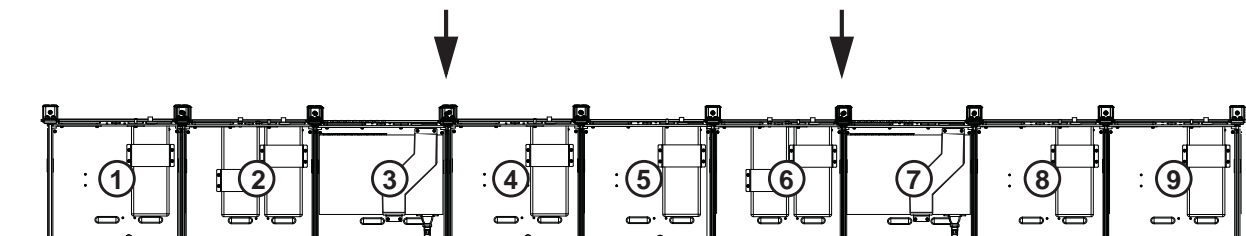



Figure 8. Where to detach chassis to move or expand a nine-chassis frame

Disassembling a Frame

After determining which chassis you need to detach, disassemble the frame as described in the following instructions. Make sure you have already removed modules and connectivity components as instructed in **Chapter 3, “Removing Modules and Disconnecting Cabling.”**

 As you disassemble frame components, keep all fasteners organized to simplify re-assembly. To simplify fastener organization, print the pages of **Appendix A, “Labels for Fasteners”** and cut out the labels provided for each stage of disassembly.

Removing the Side Covers

Side Covers must be removed before you can remove the Bolster.

 **Never attempt to move or lift a chassis by the Side Covers, Bolster, or Rear Panels as they can break. Move or lift while holding on to the metal chassis instead.**

To remove the Side Covers:

- 1 To remove the fasteners securing the Bolster to each Side Cover, first remove the plastic plugs concealing each fastener (one on the left and one on the right end of the Bolster), then remove each fastener.

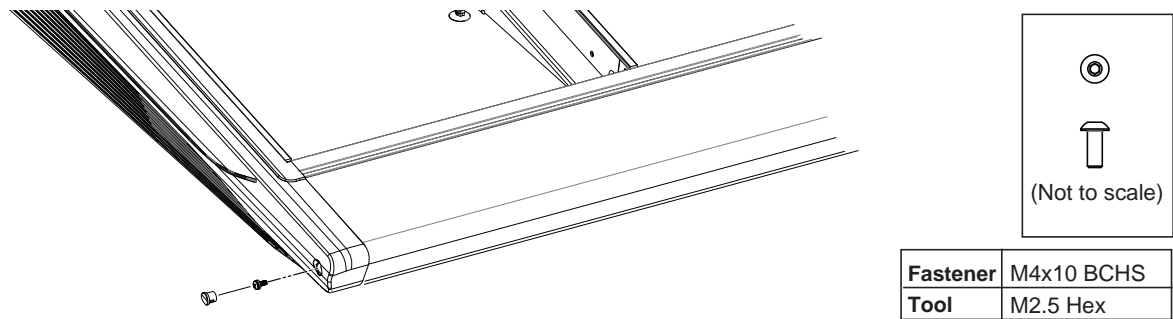


Figure 9. Securing the left Side Cover the Bolster

- 2 From the inside of the chassis, remove the four Phillips screws that secure the Side Cover to the frame (see Figure 10).

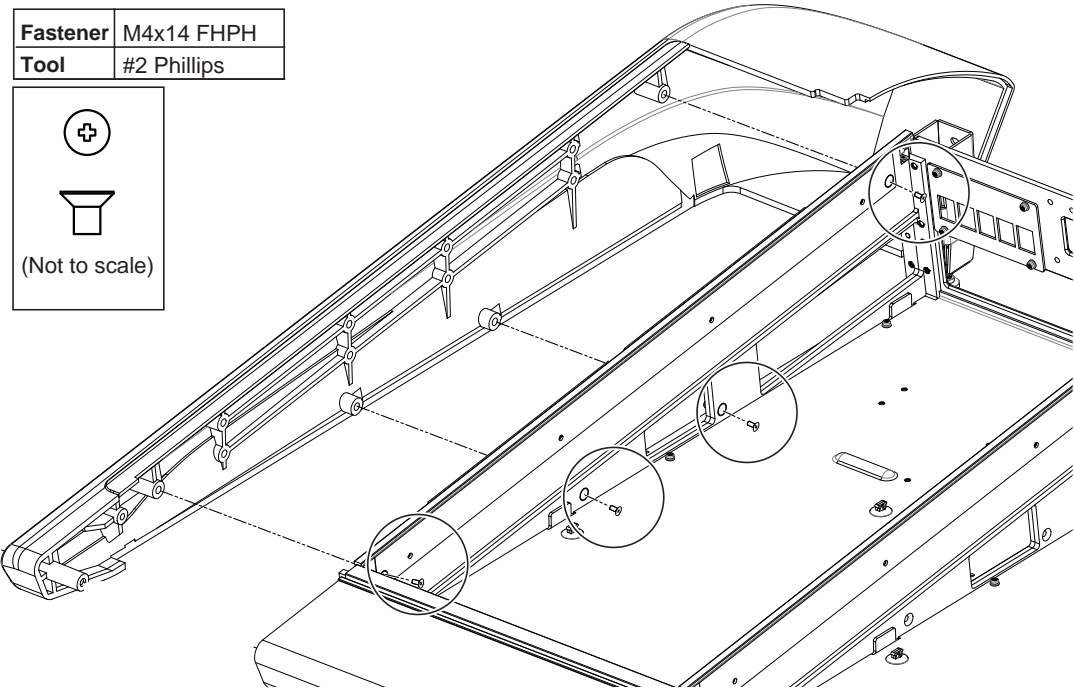


Figure 10. Removing the left Side Cover

3 Remove the four Phillips screws that secure the right Side Cover to the frame (see Figure 11).

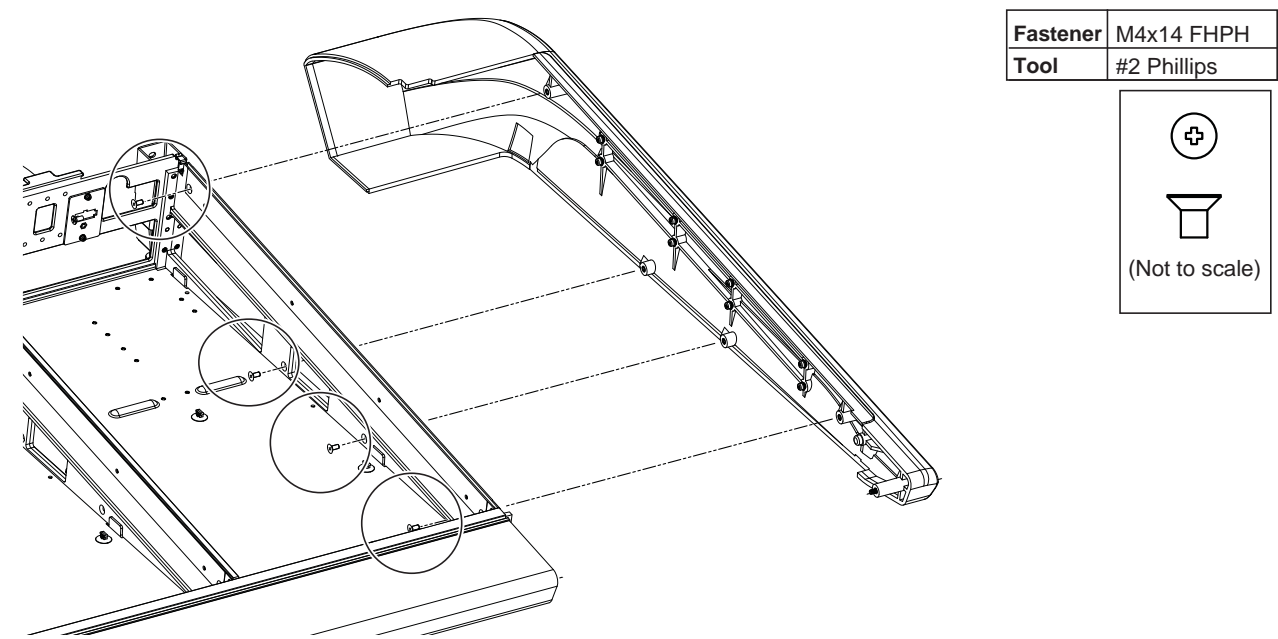


Figure 11. Removing the right Side Cover

Side Covers when Expanding a System

If you are adding a single chassis to a Leg Frame system, or if your system (desktop or Leg Frame) shipped from the factory before July 2, 2014, you must replace your existing Bolster. In addition, if your system shipped before July 2, 2014, you might also have to upgrade your Side Covers.

Contact your Avid S6 dealer, or Avid Customer Care for more information.

Removing the Bolster

Remove the Bolster (arm rest) by unscrewing its fasteners and lifting it off the front edge of the frame.

⚠ *Have someone hold the Bolster in place while you remove the fasteners to prevent it from falling on you.*

To remove the Bolster:

- 1 From underneath the Bolster, remove all Hex fasteners that secure it to the frame.
- 2 Pick up the Bolster using both hands. With Bolsters for larger systems (six or more chassis in width), get someone to help.
- 3 Lift the Bolster out of the receiving edge along the top-front edge of the frame, and set it aside.

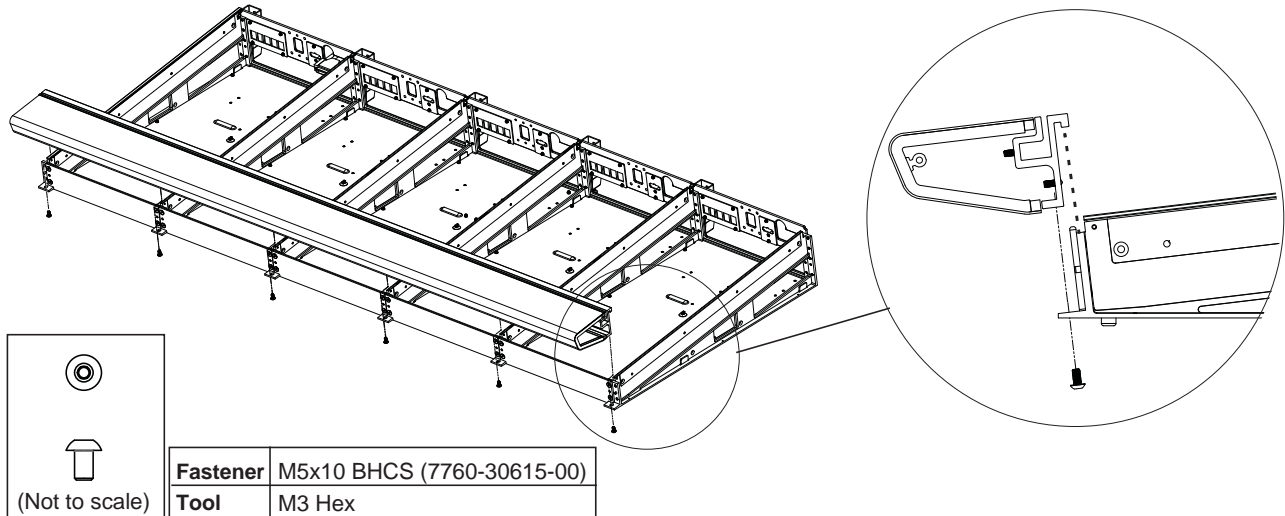


Figure 12. Removing the Bolster

Expanding a Bolster

If you are adding one or more chassis to an existing system, you must also expand the Bolster. The Bolster can be expanded by adding an additional Bolster (two chassis in width, minimum) and combining it with the existing Bolster, or by replacing the existing Bolster with a single new, larger Bolster. The way in which you can expand your Bolster is determined by the number of chassis you are adding, and by the date that your system shipped from the factory.

- If you are adding two or more chassis, you can either add an additional Bolster extension or completely replace the existing Bolster.
- If you are adding a single chassis to a Leg Frame system, or if your system shipped from the factory before July 2, 2014, you must replace your existing Bolster. In addition, if your system shipped before July 2, 2014, you might also have to upgrade your Extrusions (Beams) and Side Covers.

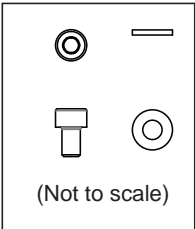
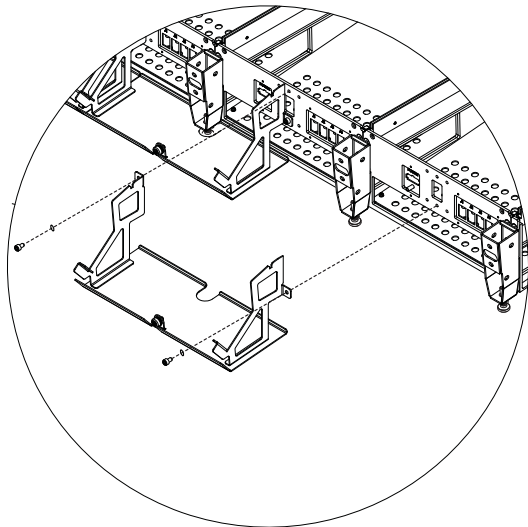
Contact your Avid S6 dealer, or Avid Customer Care for more information.

Removing the Rear Cover Mounting Brackets

Remove the Rear Cover Mounting Bracket attached to each pair of chassis to be detached. You do not need to remove all Rear Cover Mounting Brackets.

To remove the Rear Cover Mounting Brackets:

- 1 Standing at the back of the frame, identify the Rear Cover Mounting Bracket attached to each pair of chassis to be detached.
- 2 Remove the two Hex fasteners and washer securing the Rear Cover bracket to the Back Tie Plates of the two chassis (see Figure 13).



Fastener	M5x8 SHCS (7760-30593-00)
Washer	M5 WSHR
Tool	M4 Hex

Figure 13. Removing a Rear Cover Mounting Bracket

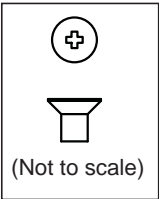
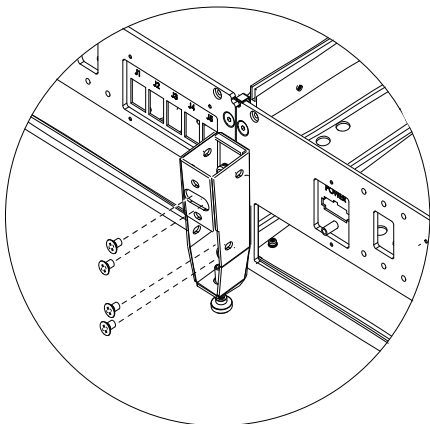
- 3 Set the Rear Cover Mounting Bracket, its fastener, and washers aside.
- 4 Repeat for any additional Rear Cover Mounting Brackets you need to remove.

Removing One or More Back Feet

Remove the Back Foot attached to each pair of chassis to be detached. Remove any hardware options (such as a SpeakerDeck or VESA Mount) attached to the Back Foot you will be removing.

To remove a Back Foot:

- 1 Using a #2 Phillips screwdriver, remove the four screws that secure the Back Foot to the Back Tie Plates of each chassis.



Fastener	M5x12 (7760-30554-00)
Tool	#2 Phillips

Figure 14. Removing a Back Foot from two adjacent Back Tie Plates

- 2 Set the Back Foot and its fasteners aside.
- 3 Repeat for any additional feet you need to remove.

Detaching Chassis

To detach chassis from each other, you must remove seven fasteners.

To detach chassis:

- 1 Remove the Hex fasteners that secure the Front and Back Tie Plates to the adjacent chassis Side Wall (see Figure 15).

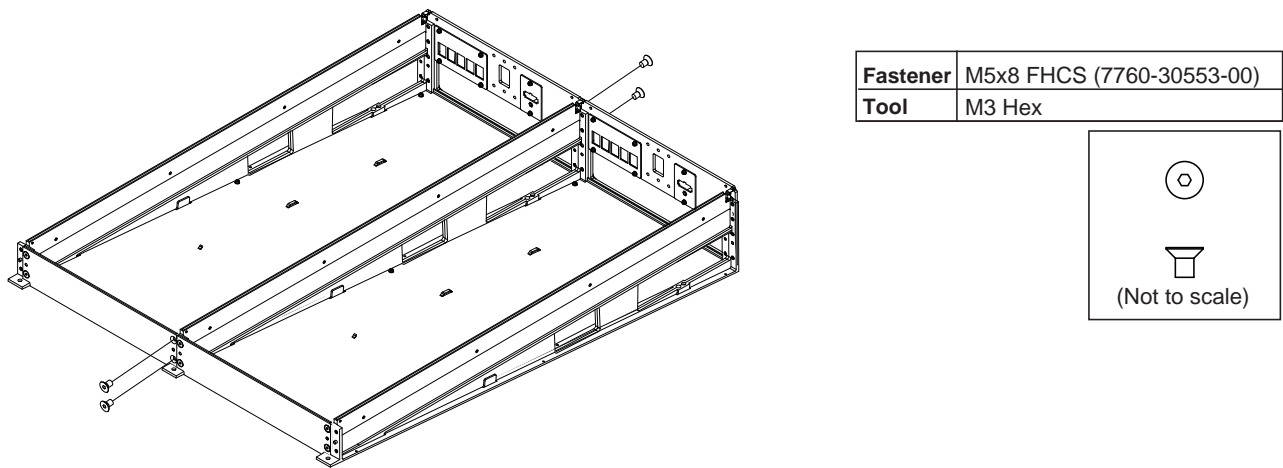


Figure 15. Removing the fasteners that secure the Side Wall of one chassis to the Back and Front Tie Plates of another

- 2 Remove the three #1 Phillips screws that secure the Chassis Bottom plate to the Side Wall of the adjacent chassis.

On some early systems, the Ethernet Switch Tie-down Bracket might need to be removed to access one of the Phillips fasteners

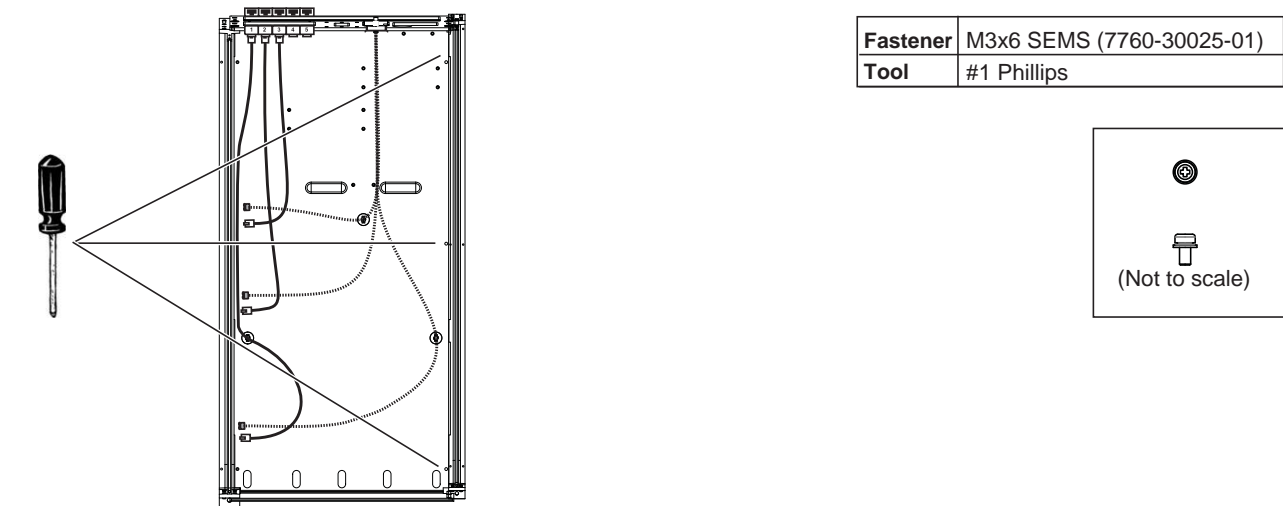


Figure 16. Removing the Phillips fasteners that secure the Side Wall to the Chassis Bottom Plate)

- 3 If your system includes Legs, remove the Hex fasteners and washers that secure Chassis Bottom Plates to the Beams.
- 4 Separate the detached chassis by carefully lifting the chassis or section to the left (when standing in front of the frame) up and away from the chassis or section to the right.

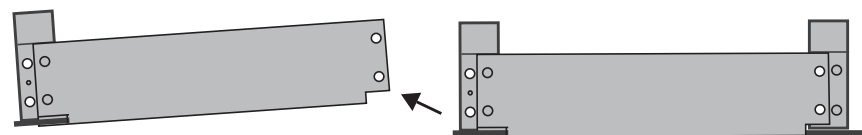


Figure 17. Separating two detached chassis (front view)

- 5 Repeat for any other chassis that need to be detached.

How to Proceed

If your system includes a Leg Frame, proceed to **Chapter 5, “Disassembling and Expanding Leg Frames.”**

If not, do either of the following.

To move an existing system:

- 1 Move each chassis section (and Leg Frame if applicable) following all the previously listed precautions.
- 2 After the components are in their new location, re-assemble Legs (if any) and chassis, then reinstall Cable Sets, modules, and other hardware components. Refer to the *S6 Installation Guide* for step-by-step instructions.

To expand a system:

- 1 Follow instruction in the *S6 Installation Guide* to determine the Module layout and the new width of your frame. This determines switch and PSU placement, and cabling requirements.
- 2 Re-assemble Legs (if any), re-attach and/or add new chassis, then reinstall Rear Covers, reinstall (or replace) Side Covers and Bolster and other frame components.
- 3 If necessary, install new, or move existing Ethernet switch(es) and/or PSUs.
- 4 Install Cable Sets, modules, and other hardware components.

About the S6 Installation Guide

A printed copy of the *S6 Installation Guide* is included with each Master Module. For the most current installation information, download the most recent electronic version of the *S6 Installation Guide* from your Avid master account. You can also download a copy from the S6 Support page in the Avid Knowledge Base.




For links to these locations, see **“Resources”** on page 5.

Chapter 5: Disassembling and Expanding Leg Frames

This section describes how to disassemble and expand Leg Frames.


Before you begin, make sure you have removed all modules, cables, and chassis as described in previous sections of this guide.

 *Components and systems are heavy! We recommend using four people, one to lift each corner. Never attempt to move a system that is five or more chassis in width. Never move or lift a chassis of any size by the Side Covers, Bolster, or Rear Covers as they can break. Move or lift while holding the metal chassis frame instead.*

Guidelines for Leg Frame Systems

If your system includes a Leg Frame, use the following guidelines to determine if, and how extensively, the Leg Frame must be disassembled.

If you are moving (not expanding) the system, you may not need to disassemble the Leg Frame if you are moving it a short distance, and it can fit through all doorways. Keep in mind that Leg Frames can be heavy.

 *To reduce the weight of the system before moving it, remove all modules and cable sets.*

Leg Frames *must* be partially or completely disassembled to move or expand it if any of the following apply.

- The system includes two or more individual Leg Frames attached with Leg Frame Join Module(s). The Leg Frames must be detached from each other before lifting or moving.
- Larger Leg Frames might need to be fully disassembled (detach Beams from Legs) before they can be moved, depending on the distance being moved, the weight of the frame, and the size of doorways or other obstacles.
- If you are expanding a Leg Frame with one or more Leg Frame Extensions, or adding a Leg Frame Join Module and additional Leg Frame(s), the frame must be partially disassembled. If expanding a Leg Frame requires replacing existing Beams with longer ones, the Leg Frame must be fully disassembled.

How to Proceed

Follow the instructions in the rest of this section to disassemble your Leg Frame as appropriate for your situation.

Detaching Leg Frame Join Modules

To detach Leg Frames that include a Leg Frame Join Module:

- 1 Detach the left frame from the bracket by removing the eight fasteners and washers (see Figure 18).

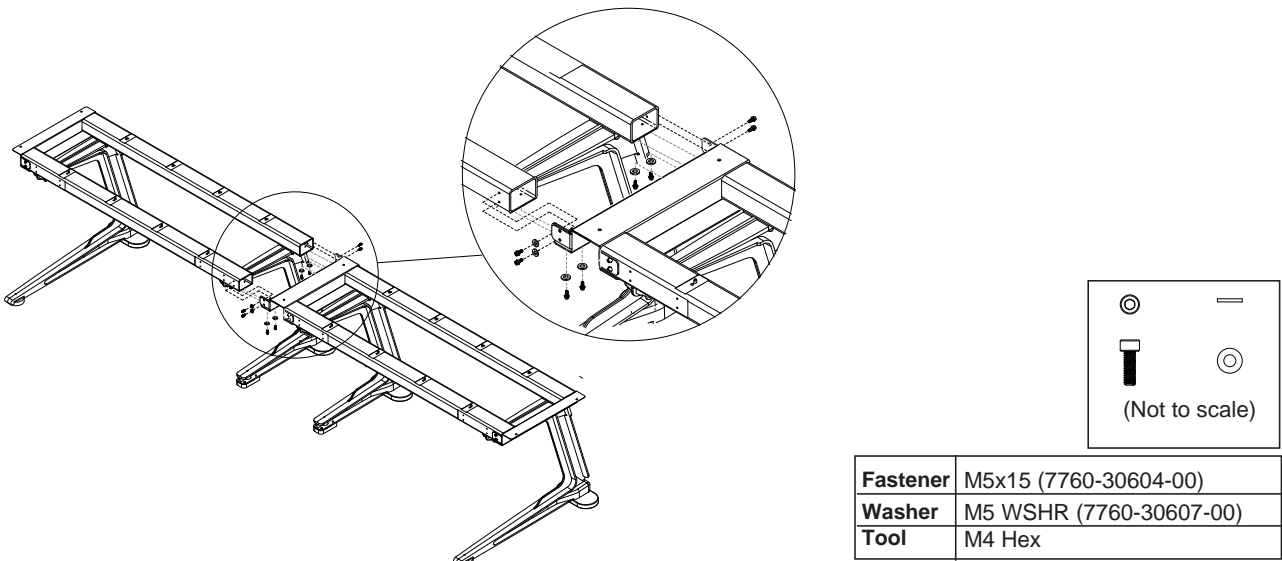


Figure 18. Detaching the left frame from the Center Bracket

- 2 Repeat for any other pairs of Leg Frames attached to each other with a Leg Frame Join Module.

Removing the End Brackets

If you are adding one or more Leg Frame Extensions to an existing Leg Frame, you only need to remove one or both End Brackets.

To remove the End Brackets:

- Remove the eight fasteners and washers per bracket that attach the Left and Right End Brackets to the Legs (see Figure 19).

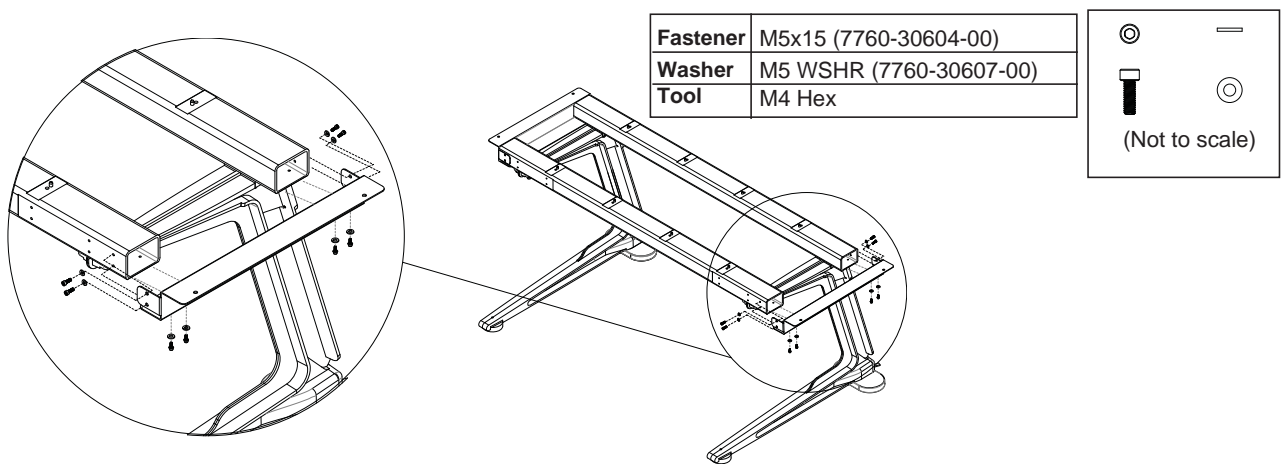


Figure 19. Removing the right side End Bracket (left side End Bracket shown attached)

Expanding a Frame with Leg Frame Extensions

If you are expanding your system by adding one or more Leg Frame Extensions, install them now.

To install Leg Frame Extensions:

- 1 Attach any Leg Frame Extension(s) as shown in Figure 20.

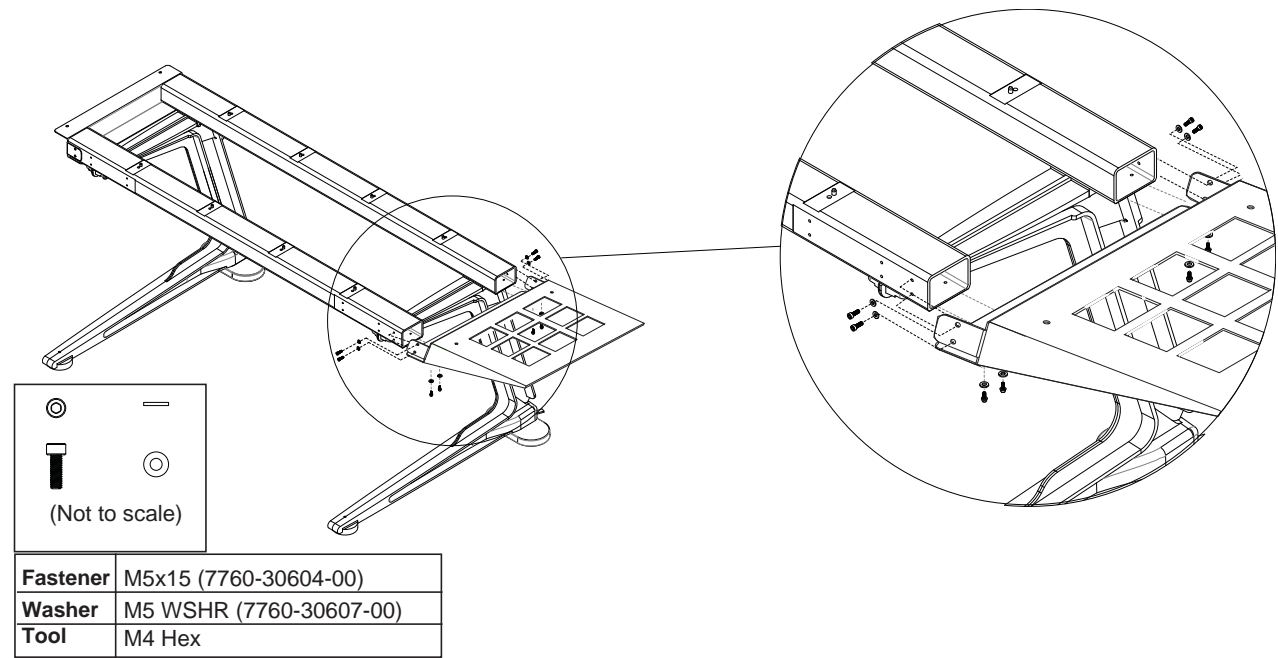


Figure 20. Installing a Leg Frame Extension

- 2 After installing the Leg Frame Extension(s), refer to the *S6 Installation Guide* and follow the instructions beginning in the chapter “Assembling Frame Chassis” to complete the re-assembly.

Leg Frame Extensions and Bolsters

To expand an existing S6 Leg Frame with one or more Leg Frame Extensions, the Bolster must also be expanded.

The Bolster can be expanded by adding an additional Bolster (two chassis in width, minimum) and combining it with the existing Bolster, or by replacing the existing Bolster with a single new, larger Bolster. The way in which you can expand your Bolster is determined by the number of chassis you are adding, and by the date that your system shipped from the factory.

- If you are adding two or more chassis, you can either add an additional Bolster extension or completely replace the existing Bolster.
- If you are adding a single chassis, or if your system shipped from the factory before July 2, 2014, you must replace your existing Bolster. In addition, if your system shipped before July 2, 2014, you might also have to upgrade your Extrusions (Beams) and Side Covers. Contact your Avid S6 dealer, or Avid Customer Care, for more information.

Leg Frame Join Modules

If you are expanding a system by adding one or more Leg Frame Join Modules, continue with the disassembly steps in the rest of this section.

Removing the Back Corner Brackets

If you are disassembling the Leg Frame to move or expand it, detach or remove the Back Corner Brackets.

To remove the Back Corner Brackets:

- Detach the Back Corner Brackets from the legs (see Figure 21) by removing the four fasteners and washers per bracket.
 - If you are moving the frame (not expanding it), leave the brackets attached to the Beam and then lift the Beam off the Legs.
 - If you are expanding the frame by replacing the Beams, fully detach the Back Corner Brackets from the Beam by removing the four fasteners and washers per bracket.

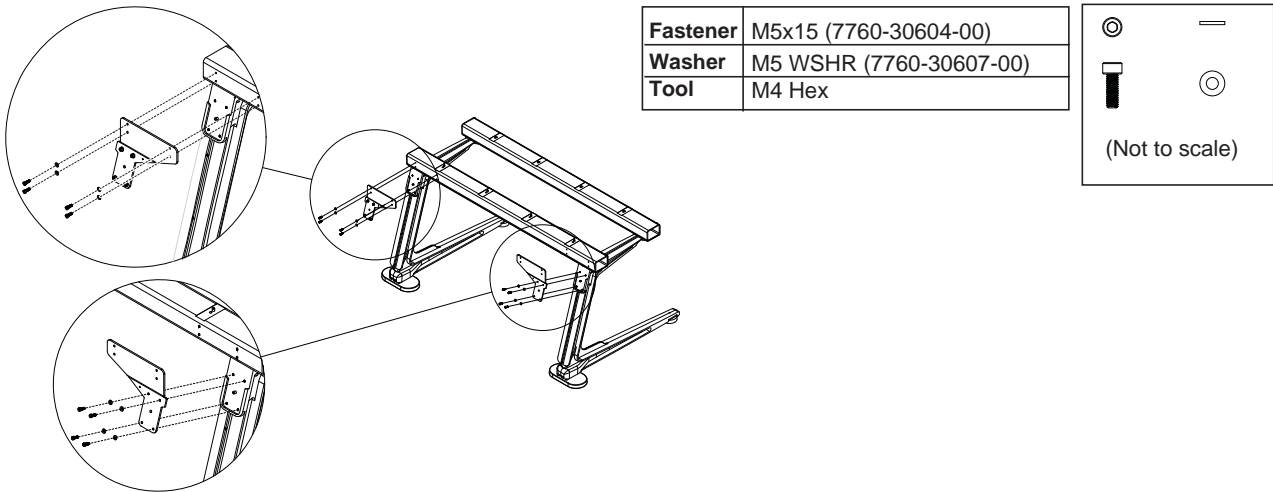


Figure 21. Removing the Back Corner Brackets from legs (lower left) and from beams (upper left)

Removing the Front and Back Beams

If you are disassembling the Leg Frame to move or expand it, remove the Beams.

To remove the front Beam:

- 1 Remove the four fasteners and washers per mount that secure the front Beam to the Legs, then lift the Beam off of the Legs (see Figure 22). If your Leg Frame is an original (early 2014) unit, remove the fasteners from the mounting plate.

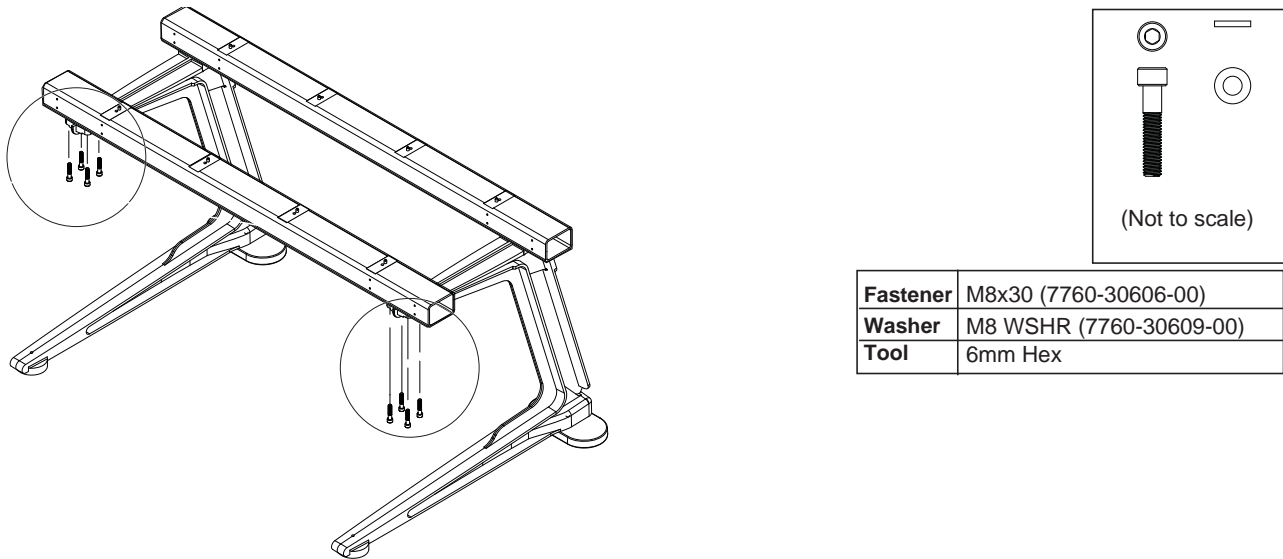


Figure 22. Removing the front Beam from the Legs

- 2 Repeat for the other Beam.

Expanding a Frame with Leg Frame Join Modules

The Leg Frame Join Module consists of special center Legs and a mounting bracket that let you join two or more S6 Leg Frames together to form a larger system. The center Legs provide frame support with a shorter bottom foot than standard Leg Frame Legs. The bracket attaches to the Beams to join the two frames together.

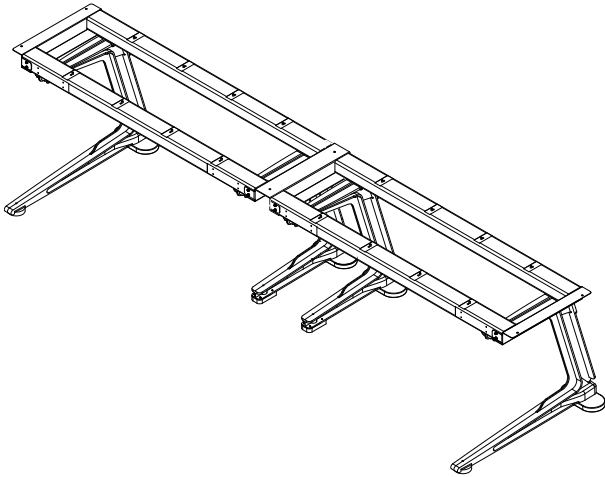


Figure 23. Two Leg Frames attached with a Leg Frame Join Module

If your system includes a Leg Frame Join Module, follow the instructions included with it to assemble and join both Leg Frames.

How to Proceed

After disassembling or expanding your Leg Frame, do the following.

To move an existing system:

- 1 Move each chassis section (and Leg Frame if applicable) following all the previously listed precautions.
- 2 After the components are in their new location, re-assemble Legs (if any) and chassis, then reinstall Cable Sets, modules, and other hardware components. Refer to the *S6 Installation Guide* for step-by-step instructions.

To expand a system:

- 1 Follow instruction in the *S6 Installation Guide* to determine the Module layout and the new width of your frame. This determines switch and PSU placement, and cabling requirements.
- 2 Re-assemble Legs (if any), re-attach and/or add new chassis, then reinstall Rear Covers, reinstall (or replace) Bolster(s), Side Covers and other frame components.
- 3 If necessary, install new, or move existing Ethernet switch(es) and/or PSUs.
- 4 Install Cable Sets, modules, and other hardware components.

About the S6 Installation Guide

A printed copy of the *S6 Installation Guide* is included with each Master Module. For the most current installation information, download the most recent electronic version of the *S6 Installation Guide* from your Avid master account. You can also download a copy from the S6 Support page in the Avid Knowledge Base.



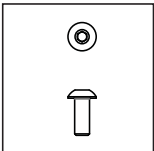
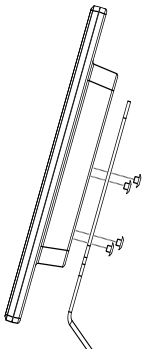
For links to these locations, see **“Resources”** on page 5.

Part III: Appendix

Appendix A: Labels for Fasteners

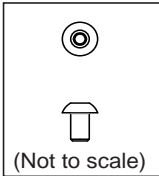
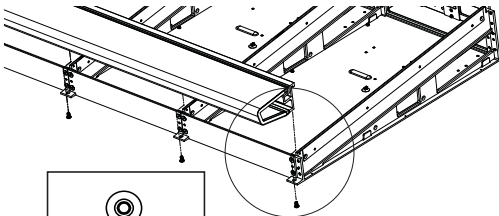
To help keep fasteners organized, print these pages, cut out the labels, and place them in containers for each type of fastener.

Display Modules



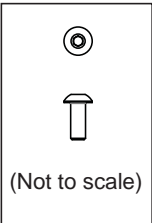
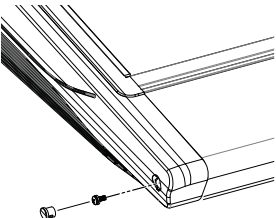
Fastener	M4x10 BCHS (7760-30535-00)
Tool	M2.5 Hex

Bolster



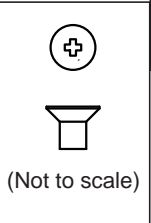
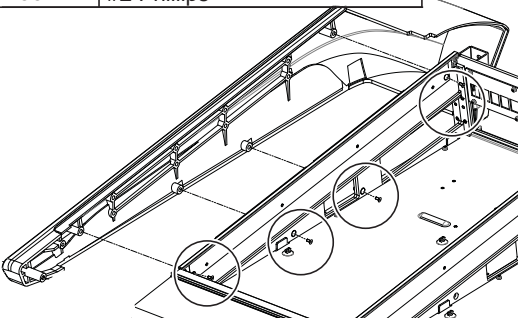
Fastener	M5x10 BHCS (7760-30615-00)
Tool	M3 Hex

Side Covers to Bolster



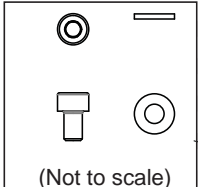
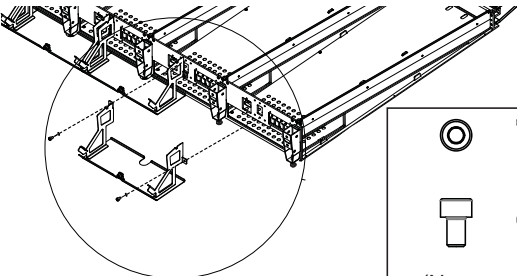
Fastener	M4x10 BCHS (7760-30535-00)
Tool	M2.5 Hex
Plug	(7600-31532-01)

Side Covers to Chassis



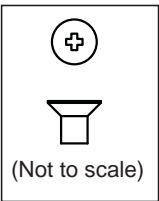
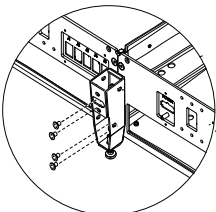
Fastener	M4x14 FHPH (7760-30622-00)
Tool	#2 Phillips

Rear Cover Mounting Brackets



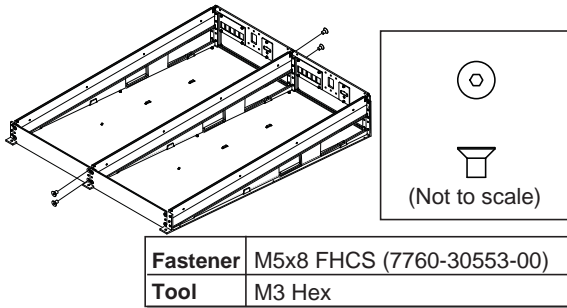
Fastener	M5x8 SHCS (7760-30593-00)
Washer	M5 WSHR
Tool	M4 Hex

Back Feet

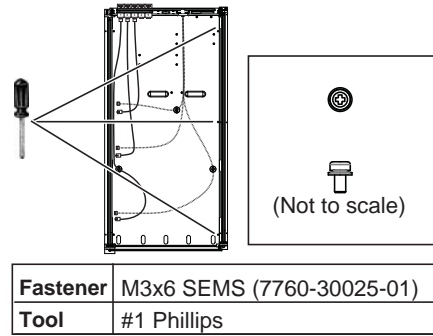


Fastener	M5x12 (7760-30554-00)
Tool	#2 Phillips

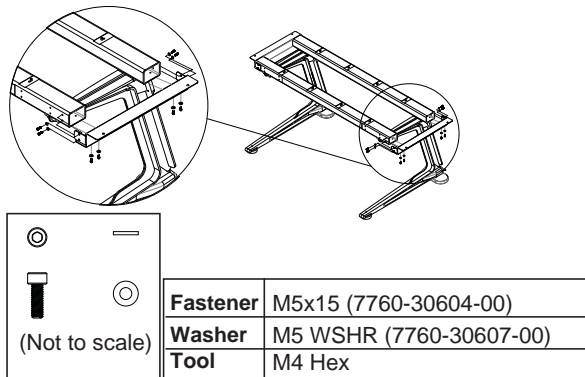
Chassis Hex



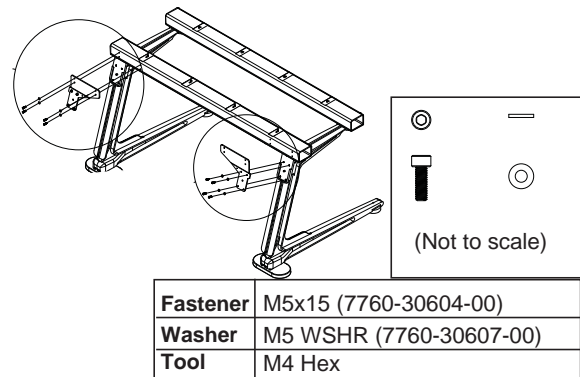
Chassis Phillips



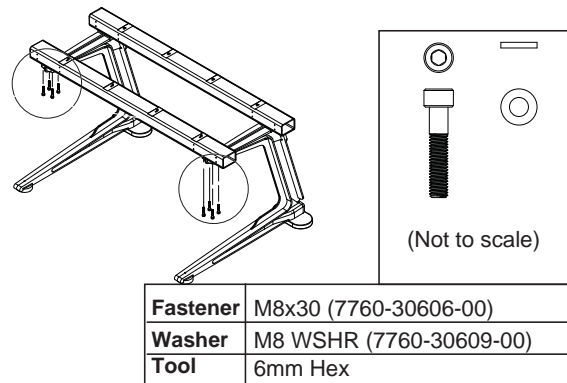
Leg Frame End Brackets



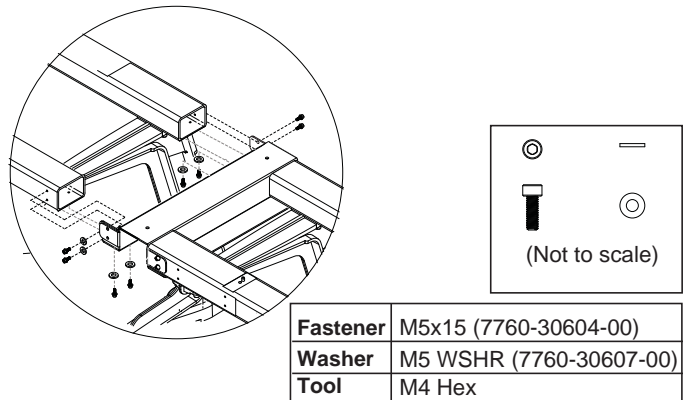
Leg Frame Back Corner Brackets



Leg Frame Beams



Leg Frame Join Modules





Avid
280 N Bernardo Avenue
Mountain View, CA 94043 USA

Technical Support (USA)
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