# Assembly Instructions ■

Serenade<sup>™</sup> Conference Collection

January 2016





## **Serenade Conference Collection**

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## ■ Serenade<sup>TM</sup> Conference Collection

Product Overview



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### **Product Overview**

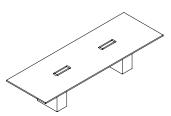
Serenade Conference Collection tables are customizable and come in various shapes and styles.

## Table Top Shapes:

- Racetrack
- Rectangle
- Boat
- Sightline

## Base Styles:

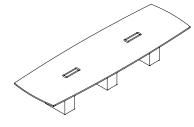
- Panel Base
- Column Base
- Drum Base
- Half Drum Base
- Metal Drum Base
- Synthesis Base



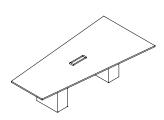
Rectangle



Racetrack



Boat



Sightline

**Table Top Styles** 



**Panel Base** 



**Column Base** 



**Drum Base** 



**Half Drum Base** 

**Base Styles** 

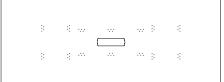


**Metal Drum Base** 



Synthesis Base







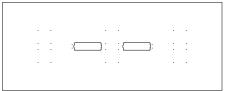
**Panel Base** 

## Product Overview - cont.

Five different Serenade Conference Table base styles are available, and each will have a unique hole pattern specific to that base. Additionally, table tops will be pre-drilled in the factory for proper positioning and installation of each base type.

Bases configure differently depending on table lengths. Variations of the "Boat Shape" are shown below in the "Base Configuration" details.

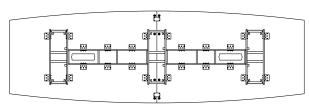
## **Column Base**

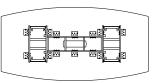




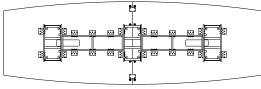


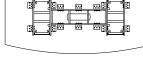
**Drum Base** 



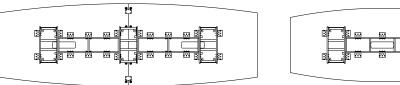


60" x 192" Table

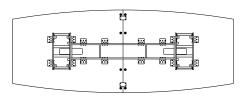


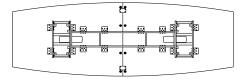


48" x 96" Table



48" x 120" Table 54" x 168" Table





54" x 144" Table

48" x 144" Table

**Base Configuration** 

## ■ Serenade<sup>™</sup> Conference Collection - Column/Panel Base Table

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Column/Panel Base Table Assembly

#### Column Leg & Modesty Panel Assembly

**Note:** A fully assembled table is heavy. The assembly of the table should be performed at the final location where table will be used. Carefully unpack and place components on a soft surface (i.e. carpet, packaging foam or cardboard) to avoid damage.

**Note:** Panel base table assemblies are not shown in this instruction but the assembly is same.

**Note:** Sightline tables have longer and shorter column/panel legs. Longer legs are assembled under the wider section of the table top and the shorter legs are assembled under the narrower section of the table top.

- 1. Rotate pre-assembled column leg onto its top (Figure 1).
- Slide two perforated inserts into the slots from the bottom of the column leg and secure using four #6 x 1/2" screws (Figure 1).
- 3. Insert the four leveling glides into the glide blocks of the column leg (Figure 1).

**Note:** Modesty panels come with three or four cross supports depending on the length of the modesty panel. The modesty panel shown in this assembly has four cross supports (Figure 2).

- 4. Locate the modesty panels. As illustrated, twist in two shoulder pin screws into the pre-drilled holes of the modesty panel (Figure 2 & Detail A). Repeat step to install the remaining shoulder pin screws into the modesty panels.
- 5. Locate the cross supports. As illustrated, insert six 8mm dowel pins into the pre-drilled holes on both the side edges of the cross

support. Then, insert four mini fix cams into the cross support. Make sure the openings on the mini fix cams face towards the outside edge so that when assembled the shoulder pin screws can be fully inserted into the mini fix cams (Figure 2 & Detail B).

- Locate the first modesty panel
  to assemble the cross supports.
  Align and position the dowels and
  mini fix cam holes on each cross
  support to the first modesty panel.
  Make sure the cross supports are
  fully seated against the modesty
  panel (Figure 2).
- 7. Then align and position the shoulder pin screws and dowel holes on the second modesty panel to the mini fix cam holes and dowels on the cross supports. Make sure the modesty panel is fully seated against the cross supports (Figure 2).
- Rotate clockwise all mini fix cams to engage each shoulder pin screw which will tighten and secure the modesty panels to the cross supports (Figure 2).

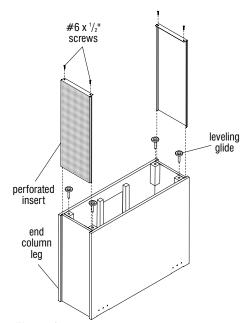
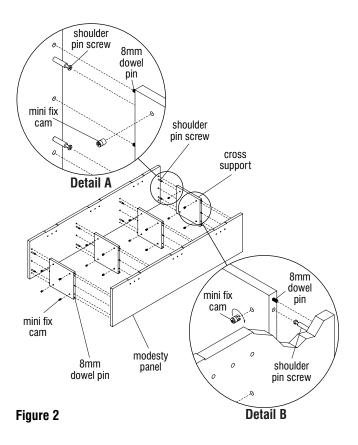


Figure 1





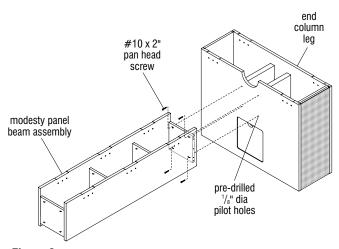


Figure 3

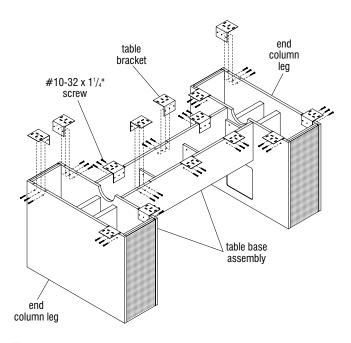


Figure 4

#### Modesty Panel Beam to Leg Assembly

**Note:** Column/Panel Base Tables being assembled may include different combinations of modesty panel beam assemblies and legs. Your configuration may vary from the illustrations shown.

Important: Note the difference between the outer and inner legs. Inner legs have a semicircle cutout on both sides of the leg wall. Outer legs have only one semicircle cutout on the inside wall (see page 9, Figure 6). Position and install the outer legs with the semicircle cutout facing inwards, so that cables can be routed correctly.

- Orient modesty panel beam assembly to column leg assembly as illustrated. Align pre-drilled holes of both components and secure using four #10 x 2" pan head screws (Figure 3).
- Repeat step 9 as required to assemble the modesty panel beam assemblies to the appropriate leg assemblies.

#### Table Brackets to Base Assembly Note: A single modesty beam base is shown, but your table configuration may vary.

11. Locate all required table brackets and note each bracket cutout at the top of the entire base assembly. Install one table bracket at a time by positioning each bracket onto the cutout with the three-hole flange side of the bracket against the inside of the table base. Then, from outside the base, secure the bracket using three #10-32 x 1¹/₄" self-tapping screws. Take care to securely install all available brackets onto all cutouts using the full amount of the required screws (Figure 4).

## ■ Serenade<sup>TM</sup> Conference Collection - Column/Panel Base Table

Assembly Instructions

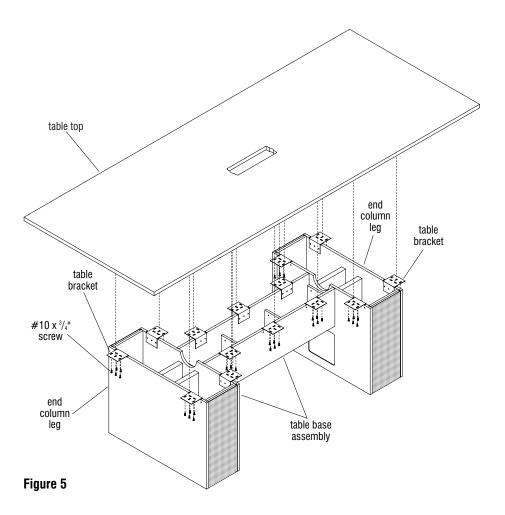


Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

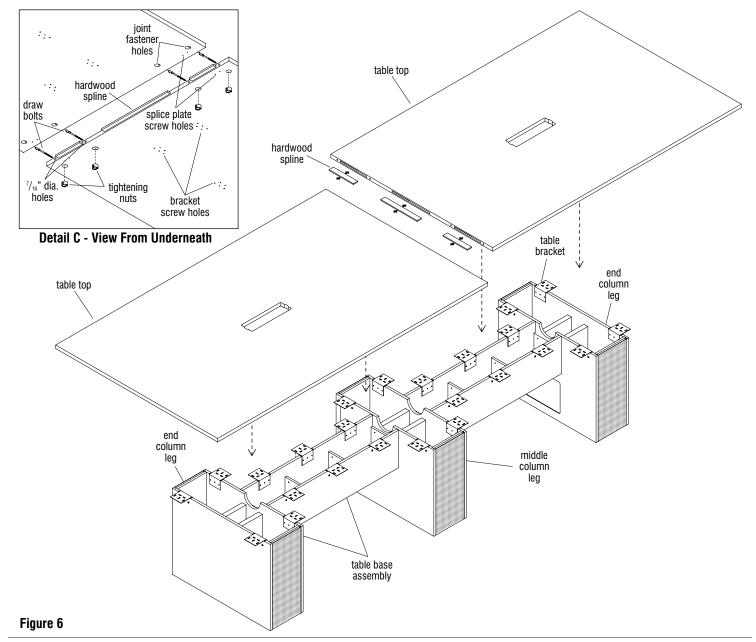
## **Single-Piece Table Top Assembly**

**Note:** If a two-piece table is being assembled go to page 9: "Two-Piece Table Top Assembly".

- 12. With the assistance of a second person, carefully position the table top on the table base assembly (Figure 5).
- 13. With one person underneath the table, move table top around as required to align all pre-drilled holes in the table top with the mounting slots of the table brackets. Once all bracket slots and holes are aligned, secure using five #10 x 3/4" screws per bracket. Do not over-torque screws which could strip out the pre-drilled holes. Take care to securely install all available brackets to the table top using the full amount of the required screws (Figure 5).
- 14. If your table requires the installation of the Electrical Trough/Power & Data Module, go now to page 18.







### **Two-Piece Table Top Assembly**

- With the assistance of a second person, carefully position each table top piece on the table base assembly. When setting tops on the table base assembly, make sure the spline cutouts and the holes for the joint fasteners face each other (Figure 6 & Detail C).
- Do not secure brackets to the underside of table at this time. Table tops must be loose to be properly joined together.
- Insert the hardwood splines into the slots in one of the table tops. Make sure they are fully seated (Figure 6 & Detail C).
- 4. Insert the tightening nuts into the joint fastener holes in the same table top piece that the hardwood splines were installed. Orientate the tightening nuts so that the threaded end hole face toward the <sup>7</sup>/<sub>16</sub>" diameter hole (Detail C & Detail D on page 10).
- 5. Insert the draw bolts into the <sup>7</sup>/<sub>16</sub>" diameter holes and twist them into
- the tightening nuts to engage the threads (Detail C & Detail D on page 10).
- Then carefully bring together both table top pieces while aligning the splines and draw bolts into the <sup>7</sup>/<sub>16</sub>" diameter holes in the other table top piece (Figure 6 & Detail C).

## ■ Serenade<sup>TM</sup> Conference Collection - Column/Panel Base Table

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

- 7. With the table top on the table base assembly, not all joint fastener holes underneath the table top are accessible at the same time. To gain access to the joint fastener holes, with assistance of a second person, carefully slide the table top to one side and then to the other side as needed. It is recommended the two outside joint fasteners be installed first, then the two inside joint fasteners, and then the splice plates (Figure 7).
- 8. For the table top piece with just the end of the draw bolts showing in the joint fastener holes, insert the locking sleeve into the joint fastener hole and onto the draw bolt as illustrated (Detail D). Tighten the joint fastener assembly by rotating the tightening nut small amounts at a time to draw the table tops together, but do not tighten completely at this time. Use a 1/8' diameter by 4" long tool or similar to rotate the tightening nut (Figure 7 & Detail D). Repeat step to install the remaining joint fastener components.
- Once all joint fasteners are installed, flush the outer edge of each table top half and tighten all fasteners to secure. Be careful to keep table tops aligned and to not pinch the protective surface in the seam from the underside of the assembly (Figure 7).

**Important:** Each pound of pressure placed on the joint fastener exerts 500 pounds of force on the joint. Over-tightening the fastener will cause table tops to de-laminate.

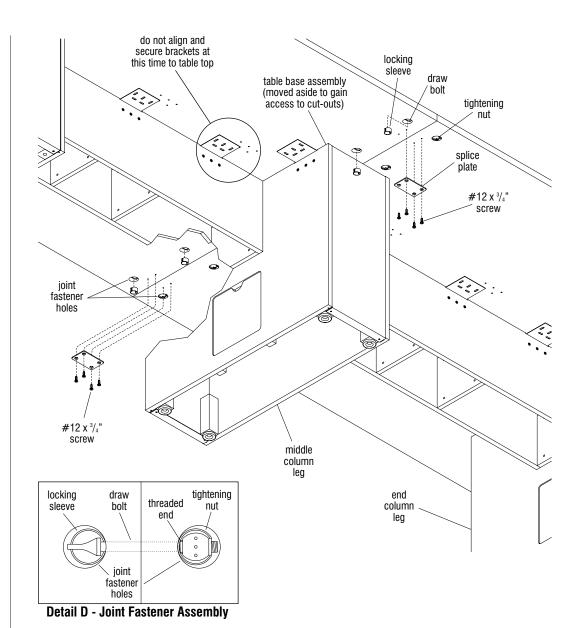


Figure 7



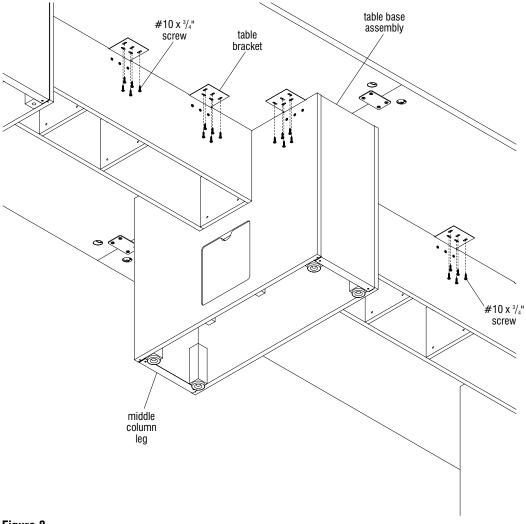


Figure 8

- Position the splice plate on the pre-drilled holes on the underside of table and secure using four #12 x <sup>3</sup>/<sub>4</sub>" screws (Figure 7). Repeat step to install additional splice plates.
- 11. Once all joint fasteners and splice plates are securely installed, and joint quality on the surface is good, carefully slide the table top into position and align all table bracket slots to the pre-drilled holes in the underside of the table top. Make sure all bracket slots and pre-drilled holes are aligned, then secure using five #10 x 3/4" screws per bracket. Do not over-torque screws which could strip out the pre-drilled holes. Take care to securely install all table brackets to the underside of the table using the full amount of the required screws (Figure 8).
- 12. If your table requires the installation of the Electrical Trough/Power & Data Module, go now to page 18.

## ■ Serenade<sup>™</sup> Conference Collection - Drum Base Table

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Drum/Half Drum Base Table **Assembly**

Note: A fully assembled table is heavy. The assembly of the table should be performed at the final location where table will be used. Carefully unpack and place components on a soft surface (i.e. carpet, packaging foam or cardboard) to avoid damage.

**Note:** Half drum base table assemblies are not shown in this instruction but the assembly is same.

**Note:** Sightline tables have larger and smaller drum legs. Larger legs are assembled under the wider section of the table top and the smaller legs are assembled under the narrower section of the table top.

#### Drum Base Positioning/Alignment

**Note:** Some table assemblies come in two or three drum base styles, when positioning bases for assembly make sure access panels on the outer drum legs are facing inward.

1. Position and align the drum base in the same screw hole pattern found on the underside of the table top. Measure screw holes found on the underside of the table top to assist in positioning and aligning of the drum bases (Figure 1).

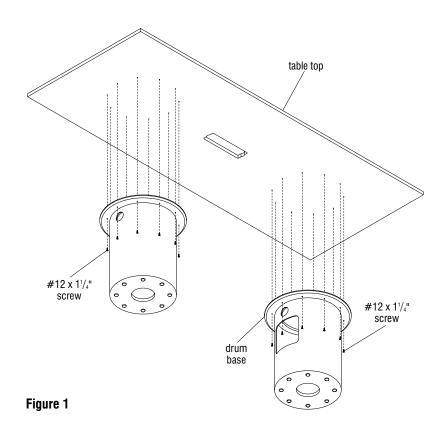
> **Note:** For single-piece table tops proceed with the following steps. For two-piece table tops, go to page 13: "Two-Piece Table Top Assembly".

#### Single-Piece Table Top Assembly

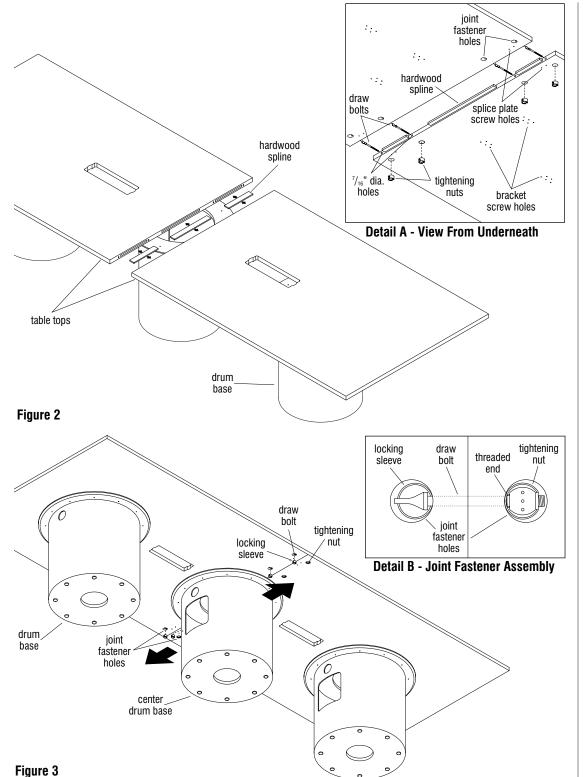
- With assistance of second person, position table top on drum bases (Figure 1).
- 3. With one person from underneath, adjust the position of table top and/ or drum base until the screw holes

Note: Drum bases with diameter sizes 18" and 20" need 10 screws per drum base. Drum base sizes 23" and 27" need 12 screws per drum base. All half drum bases need 12 screws per drum base. All metal drum bases need 4 screws per drum base.

- 4. Install the appropriate amount of #12 x 1<sup>1</sup>/<sub>4</sub>" screws to secure the table top to the drum bases (Figure 1).
- 5. If your table requires the installation of the Electrical Trough/Power & Data Module, go now to page 18.







## Two-Piece Table Top Assembly

- With the assistance of a second person, carefully position each table top piece on the drum bases. When setting tops on the bases, make sure the spline cutouts and the holes for the joint fasteners face each other (Figure 2).
- Do not secure drum bases to the underside of table at this time.
   Table tops must be loose to be properly joined together.
- Insert the hardwood splines into the slots in one of the table tops. Make sure they are fully seated (Figure 2 & Detail A).
- 4. Insert the tightening nuts into the joint fastener holes in the same table top piece that the hardwood splines were installed. Orientate the tightening nuts so that the threaded end hole face toward the <sup>7</sup>/<sub>16</sub>" diameter hole (Details A & B).
- Insert the draw bolts into the <sup>7</sup>/<sub>16</sub>" diameter holes and twist them into the tightening nuts to engage the threads (Details A & B).
- Then carefully bring together both table top pieces while aligning the splines and draw bolts into the <sup>7</sup>/<sub>16</sub>" diameter holes in the other table top piece (Figure 2 & Detail A).
- 7. With the table tops on the table base assembly, not all joint fastener holes underneath the table tops are accessible at the same time. To gain access to the joint fastener holes, with assistance of a second person, carefully slide the center drum base to one side and then to the other side as needed. It is recommended the two outside joint fasteners be installed first, then the two inside joint fasteners, and then the splice plates (Figure 3).
- For the table top piece with just the end of the draw bolts showing in the joint fastener holes, insert the locking sleeve into the joint fastener hole and onto the draw bolt as illustrated (Detail B). Tighten the

## ■ Serenade<sup>TM</sup> Conference Collection - Drum Base Table

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

joint fastener assembly by rotating small amounts at a time to draw the table tops together, but do not tighten completely at this time. Use a  $^{1}/_{8}$ " diameter by 4" long tool or similar to rotate the tightening nut (Figure 3 & Detail B). Repeat step to install the remaining joint fastener components.

 Once all joint fasteners are installed, flush the outer edge of each table top half and tighten all fasteners to secure. Be careful to keep table tops aligned and to not pinch the protective surface in the seam from the underside of the assembly (Figure 4).

Important: Each pound of pressure placed on the joint fastener exerts 500 pounds of force on the joint. Over-tightening the fastener will cause table tops to de-laminate.

Position the splice plate on the pre-drilled holes on the underside of table and secure using four #12 x 3/4" screws (Figure 4). Repeat step to install additional splice plates.

**Note:** Drum bases with diameter sizes 18" and 20" need 10 screws per drum base. Drum base sizes 23" and 27" need 12 screws per drum base. All half drum bases need 12 screws per drum bases need 4 screws per drum base.

11. Once all joint fasteners and splice plates are securely installed, and joint quality on the surface is good, carefully slide the table top into position and align all drum base mounting holes to pre-drilled holes on the underside of table top, then secure using the appropriate amount of #12 x 11/4" screws.

Do not over-torque screws which could strip out the pre-drilled holes. Take care to securely install all drum bases to the underside of table using the full amount of the required screws (Figure 4).

 If your table requires the installation of the Electrical Trough/Power & Data Module, go now to page 18.

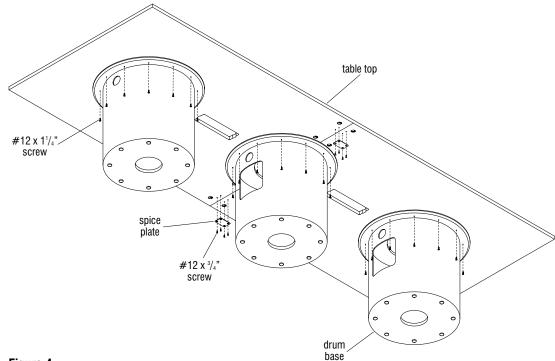


Figure 4



#### **Synthesis Base Table Assembly**

**Note:** A fully assembled table is heavy. The assembly of the table should be performed at the final location where table will be used. Carefully unpack and place components on a soft surface (i.e. carpet, packaging foam or cardboard) to avoid damage.

**Note:** Sightline tables have longer and shorter Synthesis legs. Longer legs are assembled under the wider section of the table top and the shorter legs are assembled under the narrower section of the table top.

## Single-Piece Table Top Assembly

 Carefully place table top upside down on a soft surface to protect top from damage. Determine whether the table top requires two, three, four or five T or TT-legs (Figure 1).

Important: All table tops specified for T or TT-legs require that "end" legs be installed near the end of the table. End T or TT-legs can be identified by the holes which are mid-way up the uprights, for use with right- and left-hand wire-form stiffeners. Tables longer than 120" which are specified to have three or five T or TT-legs will utilize "center" T or TT-legs, installed between the end legs.

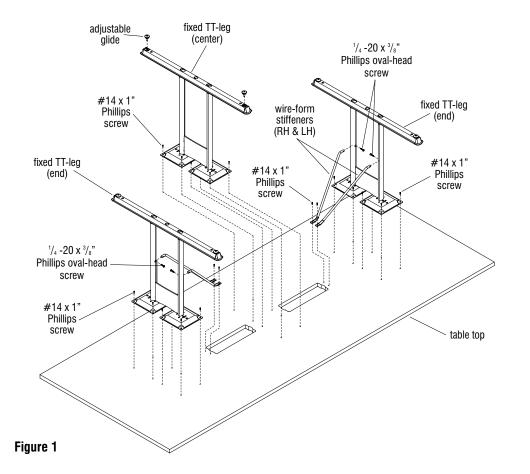
2. Position end leg assemblies over pre-drilled holes in table, making sure the wire-form stiffener mounting holes face to the inside of the table as illustrated. Insert eight #14 x 1" Phillips screws through

the mounting holes in each end TT-leg, but do not tighten completely (Figure 1).

- 3. Position right- and left-hand wireform stiffeners into holes in TT-legs and secure using 1/4-20 x 3/8" Phillips screws provided. Next, align the stiffener's table mounting holes over the pre-drilled holes in the table top underside and secure using #14 x 1" Phillips screws. Tighten all screws securing stiffeners and table legs to table top underside at this time (Figure 1).
- If a "center" TT-leg is required, install over pre-drilled holes using eight #14 x 1" Phillips screws (Figure 1).
- Install two adjustable glides into each leg assembly by hand, or by using a drill-driver and #3 Phillips bit (Figure 1).

**Note:** TT-legs with rollers (not shown) do not require installation of adjustable glides.

 With the assistance of a second person, carefully turn table to the upright position. Adjust glides in or out to accommodate uneven floor conditions (Figure 1).



## ■ Serenade<sup>TM</sup> Conference Collection - Synthesis<sup>®</sup> Base Table

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### **Two-Piece Table Top Assembly**

**Note:** Some two-piece table tops come with three, four or five legs depending on the length of the table top. Typically, tables with three or five legs have the middle leg assembled between the two-piece table top. Table tops with four legs have two legs assembled under each table top.

Important: Do not join two-piece table tops together until each half has both leg assemblies installed to it and it is turned to the upright position. Do not turn two-piece table tops to the upright position until all T or TT-legs are completely installed to the underside of table tops.

 Carefully place table tops upside down on a soft surface to protect the table top from damage.
 Arrange the table tops together and determine proper location of each TT-leg (Figure 2).

Important: All table tops specified for TT-legs require that "end" legs be installed near the end of the table. End legs can be identified by the holes which are mid-way up the uprights, for use with right-and left-hand wire-form stiffeners. Two-piece table systems will utilize "center" TT-legs, installed between the end legs, near the location where tables will be joined later. Center leg assemblies do not utilize wire-form stiffeners.

- Position end legs over pre-drilled holes in table, making sure the wire-form stiffener mounting holes face to the inside of the table assembly as illustrated. Insert eight #14 x 1" Phillips screws through the mounting holes in each end leg and into the top, but do not tighten completely (Figure 2).
- Position right- and left-hand wireform stiffeners into holes in the end legs and secure using 1/4-20 x 3/8" Phillips screws. Next, align the stiffener's mounting

Figure 2

holes over the pre-drilled holes in the table top underside and secure using #14 x 1" Phillips screws. Tighten all screws securing stiffeners and legs to table top underside at this time (Figure 2).

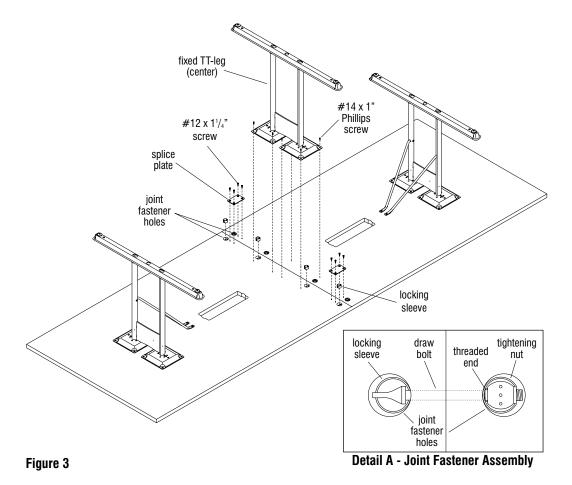
- 4. Insert the tightening nuts into the joint fastener holes in the same table top piece that the hardwood splines were installed. Orientate the tightening nuts so that the threaded end hole face toward the <sup>7</sup>/<sub>16</sub>" diameter hole (Figure 2 & Detail A).
- Insert the draw bolts into the <sup>7</sup>/<sub>16</sub>" diameter holes and twist them into the tightening nuts to engage the threads (Figure 2).

Then carefully bring together both

table top pieces while aligning the

splines and draw bolts into the 7/16" diameter holes in the other table top piece (Figure 2). fixed TT-leg  $^{1}/_{4}$  -20 x  $^{3}/_{8}$ " (end) Phillips oval-head screw wire-form stiffeners #14 x 1" (RH & LH) **Phillips** screw #14 x 1" Phillips screw tightening nuts table tops fixed TT-leg (end) 7/16" dia. holes hardwood spline joint draw fastener holt holes





7. For the table top piece with just the end of the draw bolts showing in the joint fastener holes, insert the locking sleeve into the joint fastener hole and onto the draw bolt as illustrated (Detail A). Tighten the joint fastener assembly by rotating small amounts at a time to draw the table tops together, but do not tighten completely at this time. Use a ½ diameter by 4" long tool or similar to rotate the tightening nut (Figure 3 & Detail A). Repeat step to install the remaining joint fastener components.

8. Once all joint fasteners are installed, flush the outer edge of each table top half and tighten all fasteners to secure. Be careful to keep table tops aligned and to not pinch the protective surface in the seam (Figure 3 & Detail A).

Important: Each pound of pressure placed on the joint fastener exerts 500 pounds of force on the joint. Over-tightening the fastener will cause table tops to de-laminate.

- Position splice plate on the predrilled holes on the underside of table and secure using four #12 x <sup>3</sup>/<sub>4</sub>" screws (Figure 3). Repeat step to install additional splice plates.
- In this particular configuration, position the center fixed TT-leg over the pre-drilled holes of both table tops and secure using eight #14 x 1" Phillips screws (Figure 3).
- If your table requires the installation of the Electrical Trough/Power & Data Module, go now to page 18.

## lacktriangle Serenade $^{ extstyle extstyl$

Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

# Electrical Trough/Power & Data Module Assembly

The electrical trough and power and data module assembly are shown on a Rectangular Table Top with a Drum Base, but the instructions are the same for other table top styles and sizes.

#### **Electrical Trough Assembly**

**Note:** Electrical troughs are used to support the cables when routed. Adjust the position as needed to properly support the cables.

 From underneath the table top, position the electrical trough over the cutout of the table top and secure using eight #10 x 5/8" screws per electrical trough (Figure 1).

#### **Power & Data Module Assembly**

**Note:** Position the power and data modules with the cable end pointed in the direction of where the cables are to be connected. This will allow the cables to be routed tighter along the underside of the table and reduce cables from hanging loosely.

- Route cables from the power and data module through the cutout of table top and carefully position the module into the cutout (Figure 1).
- From underneath the table top, twist two power and data module screws through the brackets located on the opposite corners of the module. Gently tighten both screws evenly until the module is secured against the table (Figure 2).
- 4. Repeat steps 1 to 3 to install additional modules.

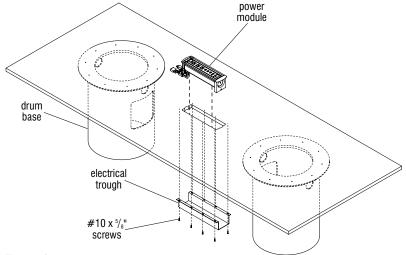


Figure 1

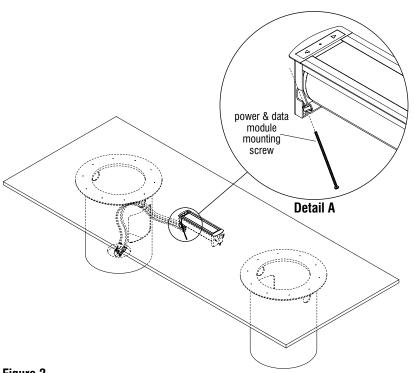


Figure 2



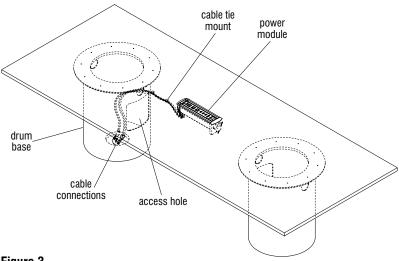
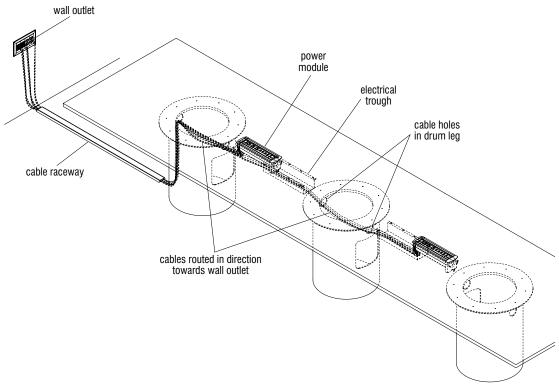


Figure 3



**Cable Connections and Routing** 

Connection types that come with the Power & Data Module includes the following:

- Ethernet (Qty. 3)
- VGA (Qty. 1)
- Outlet Plug, Type B (Qty. 1)
- 5. From underneath the table top, route the Ethernet, VGA and power cables against the underside of the table top (Figure 3).
- 6. If cables are to be routed through or into a leg, remove the access panel and route the cables through the cable hole(s). Connect any of the cables to their associated connections (Figures 3 & 4).

**Note:** Extension of cables using adapters, use of cable tie mounts and cable cover protectors are the responsibility of the customer and/or communications vendor. Cable tie mounts and cable raceways are shown as recommendations to keep cables from hanging loose and from becoming a trip hazard if routed along the floor.

- 7. Once the cables are completely routed and connected, use cable tie mounts to secure the cables to the underside of the table. Make sure all cables are not loose and/or hanging (Figures 3 & 4).
- 8. For cables routed along the floor, use cable raceways to keep cables protected and from being a tripping hazard (Figure 4).

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