







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.

**CONFIGURATIONS WITH  
END-OF-RUN TABLES  
C-Base with Table Spider**

1. Refer to your space-planning layout and reference the appropriate beam diagram. On pages 8 and 9 for beam specifications and correct spacing. Stage product for assembly according to space-planning layout.

2. The C-base feet extend out equally on the front and back of the vertical upright. Install guides by threading them into the underside of the C-base (Figure 1).
3. Determine front and back of table spiders. The front of the spider extends out farther from beam than at the back (Figure 1).

4. Place beam on bases (Figure 1).
5. Outboard bases must be positioned with approximately  $\frac{1}{8}$ " of beam extending beyond yoke at ends. Outboard bases are attached to the beam with a yoke over the base and beam using four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs to secure. At the end with table, place the beam on the inboard C-base which has a yoke welded to the top. Approximately  $\frac{1}{8}$ " of beam should extend beyond yoke. Place table spider over base yoke. Attach with four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs in a diagonal pattern (Figure 1).
6. Position other seat or table units 22" on center over beam. Attach yokes under beam to units with four  $\frac{5}{16}$ -18 x 1" hex head bolts and lock washers. Torque bolts to 21 ft/lbs but not at this time (Figure 1).
7. Make final spacing adjustments of spiders, seating units, and bases. Set Dorsal polypropylene seat shell onto spider and fasten with four  $\frac{1}{4}$  x  $\frac{3}{4}$ " screws. Torque screws to 50 in/lbs (Figure 1).
8. Attach table tops to table spiders by aligning well-nuts, embedded in table top with holes in spider and fasten with six  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " hex head bolts and lock washers. Torque bolts to 50 in/lbs to secure. (Figure 1).

**Note: Double check to determine that all screws, nuts, and bolts are tightened securely. Tighten periodically while in use.**

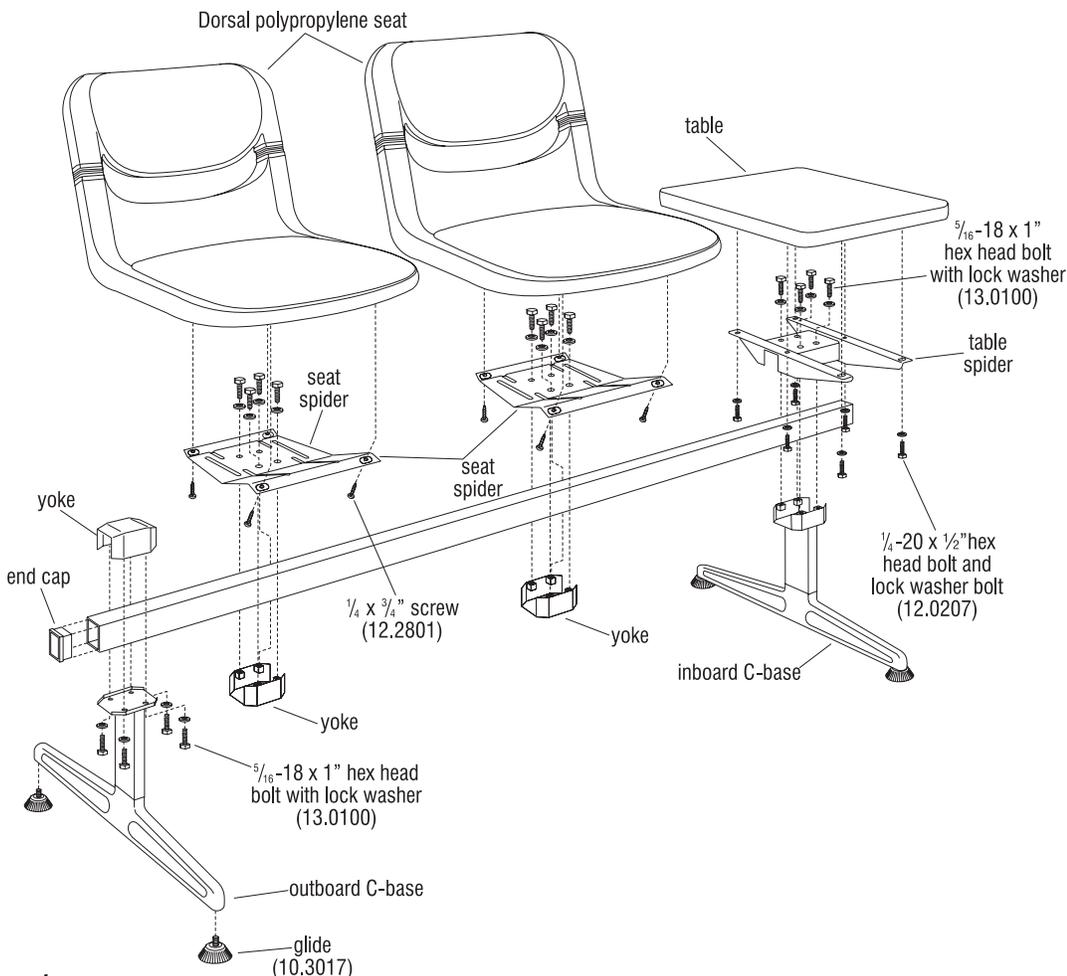


Figure 1



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.

**C-Base with Corner Table Frame**

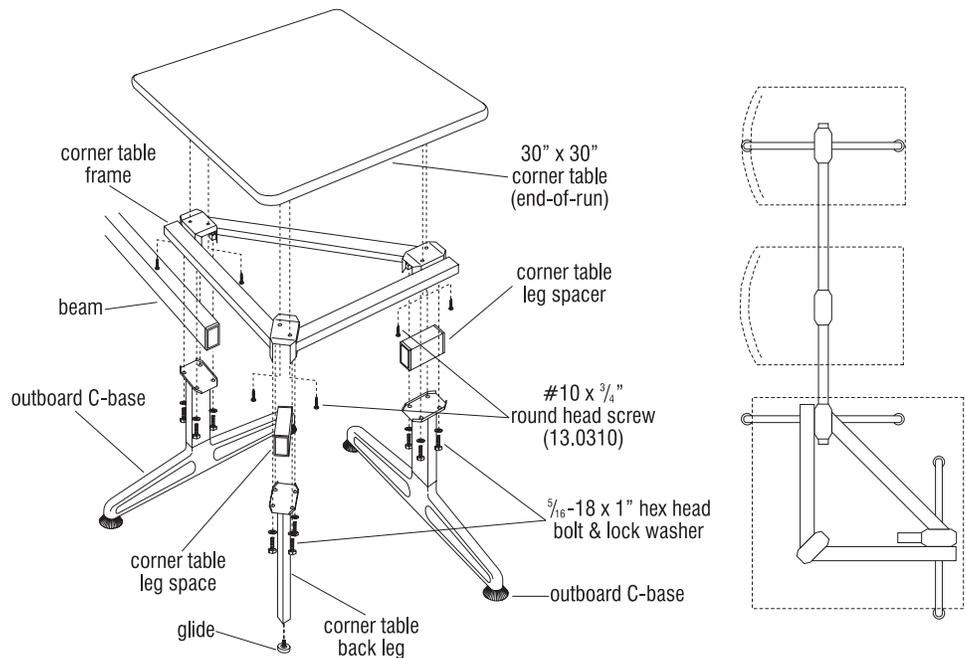
1. At the end of the beam that attaches to a corner table, rest the beam on a base (Figure 2).
2. Set the 30" x 30" corner table topside down onto a soft protective surface. Lay the corner table frame onto the table and align the holes in the "yokes" of the frame with the appropriate holes in the table. Secure the corner table frame to the table with six #10 x 3/4" round-head screws torqued to 50 in/lbs (Figure 2).
3. At the rear corner location of the corner table frame, place a corner table leg spacer onto the yoke. Attach a corner table back leg to the frame with four 5/16" -18 x 1" hex head bolts and lock washers. Torque bolts to 21 ft/lbs in a diagonal pattern (Figure 2).
4. Carefully turn the corner table assembly over and set the remaining open "yoke" of the table frame over the beam and outboard base. Attach the base to the frame from underneath with four 5/16" -18 x 1" hex head bolts and lock washers. Do not tighten at this time, but torque to 21 ft/lbs when appropriate (Figure 2).
5. Position remaining seat and inline table spiders along the length of beam at approximately 22" on center. Attach spider to the beam using a yoke and four 5/16" -18 x 1" hex head bolts and lock washers. Torque to 21 ft/lbs but not at this time. Then, from underneath, attach each seat using four 5/16" -18 x 1" Phillips head screws, torque screws to 50 in/lbs in a diagonal pattern. For each inline table top, attach it to the spider using six 1/4"-20 x 1/2" hex head bolts with lock washers. Tighten completely at 50 in/lbs (Figure 2).

6. Make final spacing adjustments of all bases, seats and inline tables. Position any excess beam length under corner tables (if included). Tighten all bolts diagonally to torque specified (Figure 2).

**Note: Double check to determine that all screws, nuts, and bolts are tightened securely. Tighten periodically while in use.**

**F-Series Base**

This base has a flange welded at the bottom for securing directly to the floor (not shown). Four 3/8" or 5/16" anchor bolts required for each base are not provided. Assemble same as above.



**Figure 2**



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.

**TANDEM ASSEMBLY WITHOUT CORNER TABLES**

1. The C-base feet extend equally on the front and back of the vertical upright. Install guides by threading them into the underside of C-base (Figure 3).
2. Place beam onto inboard or outboard base sections depending on space plan. Outboard bases must be positioned with approximately  $\frac{1}{8}$ " of beam extending beyond yoke at ends. Outboard bases may be attached to the beam with a yoke over the base and beam using four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs to secure. Inboard bases are secured to the beam with the seat or table spider over the base and beam using four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs to secure (Figure 3).
3. Place seat spider or table spider onto beam over yoke or yoke of inboard base and attach with four  $\frac{5}{16}$ -18 x 1" hex head bolts and lock washers. Each will be spaced approximately 22" on center. Torque bolts to 21 ft/lbs in a diagonal pattern (Figure 3).
4. Set Dorsal polypropylene seat shell onto spider and fasten with four  $\frac{1}{4}$  x  $\frac{3}{4}$ " screws. Torque screws to 50 in/lbs (Figure 3).
5. Install tables to table spiders with six  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " hex head bolts and lock washers. Torque screws to 50 in/lbs in a diagonal pattern (Figure 3).

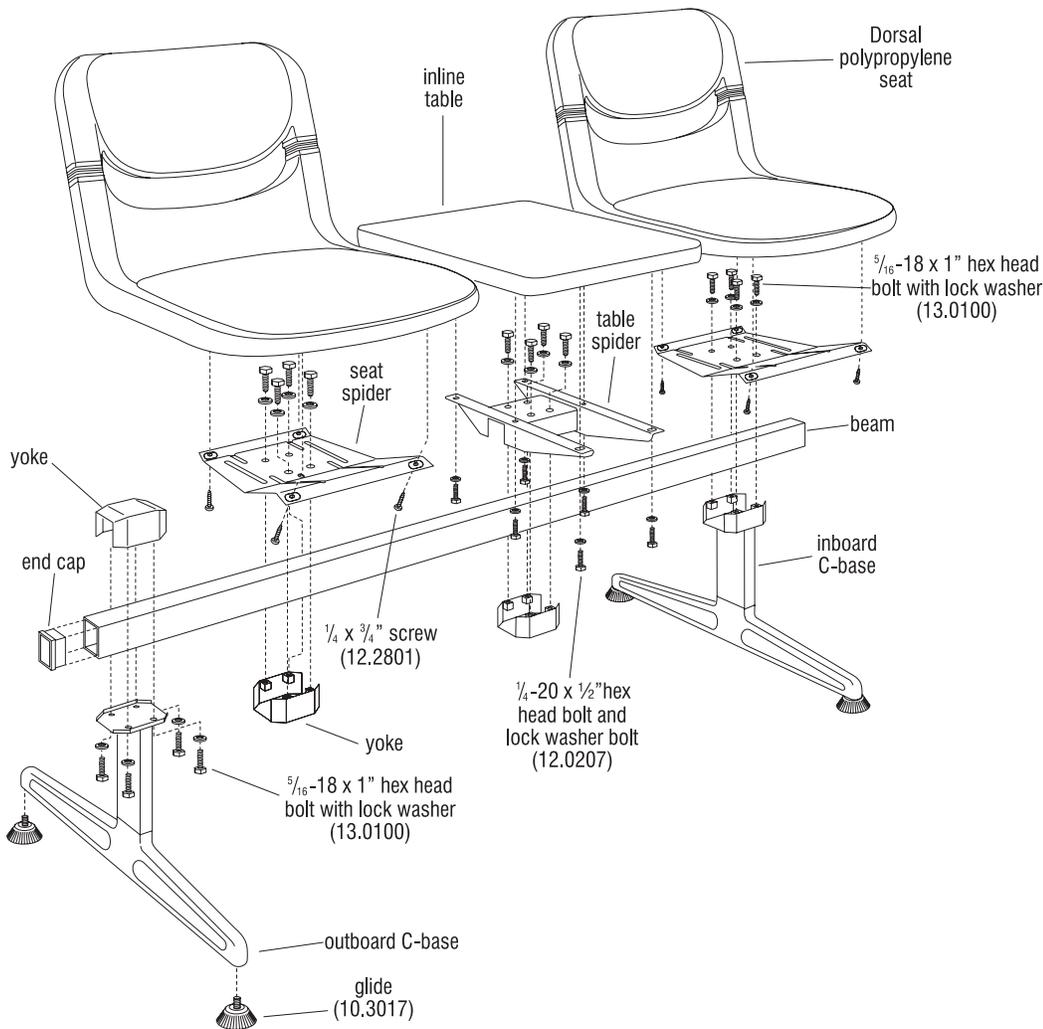


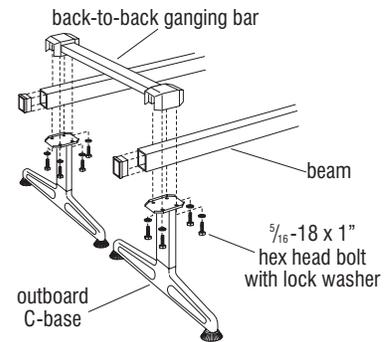
Figure 3



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**BACK-TO-BACK GANGING**  
**Assembly Ganging over C-bases (Figure 4)**

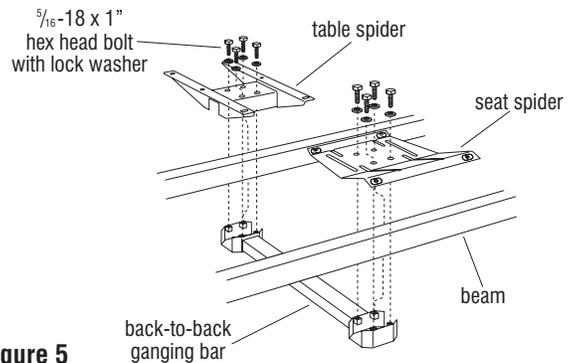
1. In place of yokes at beam ends, position back-to-back ganging bar over two beams to be ganged.
2. Attach four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers through the yoke plate of the outboard base into the ganging bar yoke. Torque bolts to 21 ft/lbs in a diagonal pattern.



**Figure 4**

**Ganging Under Inline Tables or Seats (Figure 5)**

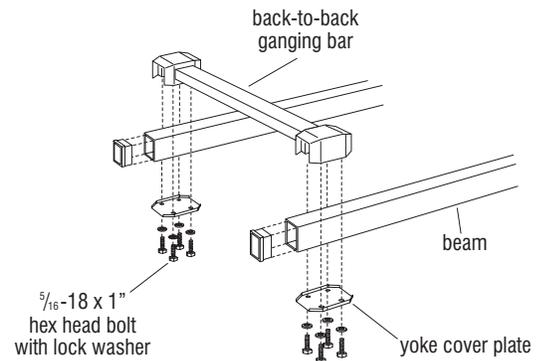
1. The back-to-back ganging bar "yokes" replace the yokes under the seats or the inline tables at the second position from the end.
2. Attach four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers through the spider into the yoke. Torque bolts to 21 ft/lbs in a diagonal pattern.



**Figure 5**

**Ganging over beam with cover plates (Figure 6)**

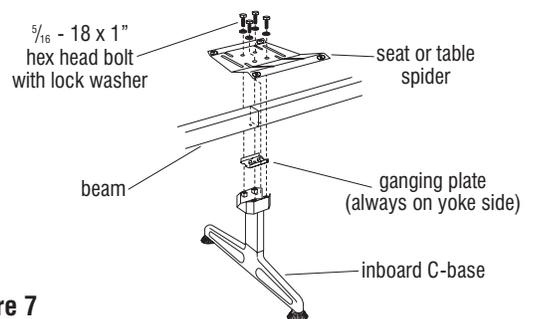
1. Align the two units to be ganged. Place the ganging bars over the two beams to be ganged between the first and second place position, at both ends. Openings in the yokes should face down.
2. Place yoke cover plate over the yoke opening. Attach with four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs in a diagonal pattern.



**Figure 6**

**GANGING ASSEMBLY**  
**Joining units under seats or tables (Figure 7)**

1. These units require a base to be positioned under seat or table where the two beams are joined. The inboard base supplied has a yoke welded to the top.
2. Position holes near beam ends down.
3. Insert ganging plate into holes.
4. Place beams on base. Be sure to cover ganging plate.
5. Place seat or table spider over beam above base and secure with four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs in a diagonal pattern.



**Figure 7**



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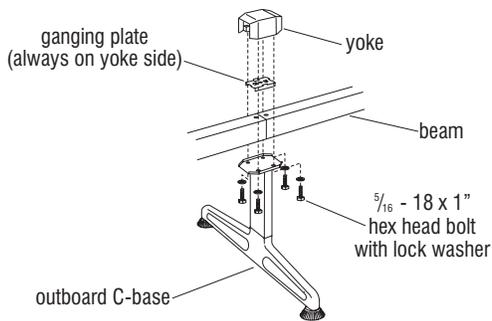


Figure 8

**GANGING ASSEMBLY**

**(continued)**

**Joining units over base, with no seat or table above (Figure 8)**

1. These units require a base to be positioned under the joint for two beams between seats or tables. The outboard base supplied has a yoke cover plate welded to the top.
2. Position holes near beam ends up.

3. Insert ganging plate into holes.
4. Place yoke over beam top. Secure through yoke cover plate of the outboard base with four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Torque bolts to 21 ft/lbs in a diagonal pattern.

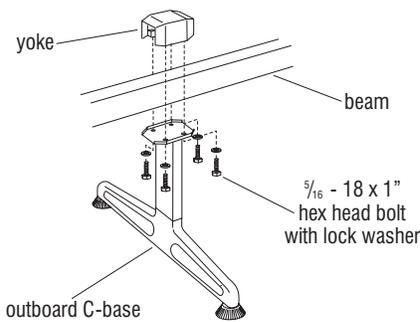


Figure 9

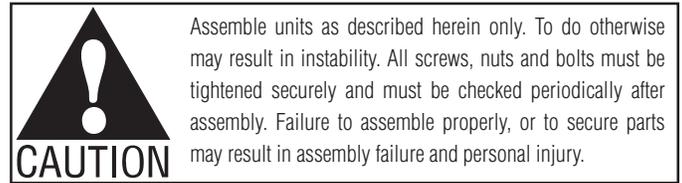
**SUPPORT BRACE**

**Adding support brace at center of beam (Figure 9)**

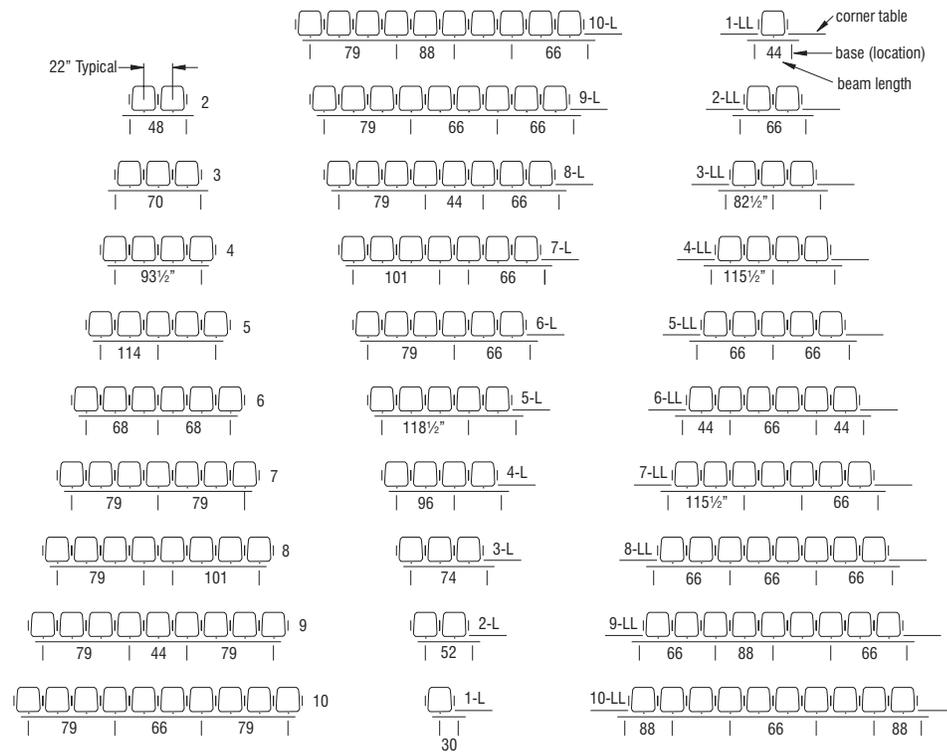
1. These units require a supporting base at the center of the beam. The outboard base supplied has a yoke cover plate welded to the top.
2. Center the base between the seats or tables at the center of the beam.

3. Place the yoke over the beam top. Secure through the yoke cover plate with four  $\frac{5}{16}$ -18 x 1" hex head bolts with lock washers. Do not tighten.
4. Make final adjustments to seat and table spiders and bases. Torque bolts to 21 ft/lbs in a diagonal pattern.





**BEAM MARKING DIAGRAM - WITH ARMS**



# Dorsal® Operational Tandem

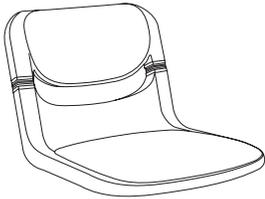
## Parts List



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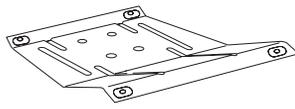
/\* = Configuration Number  
XX = Select Color or Finish

### SHELL

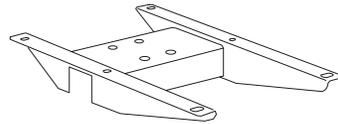


Dorsal Shell

### SPIDERS

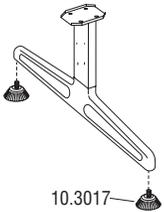


Dorsal Spider  
**87-5300**



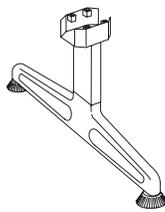
In-line Table Spider  
**87-5309**

### OUTBOARD BASE



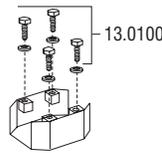
C-Base with Glides  
**87.6291.XX**

### INBOARD BASE

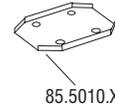


C-Base with Glides  
**87.6290.XX**

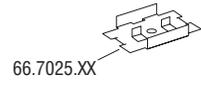
### MISCELLANEOUS



Modular Yoke  
**87.5000.XX**

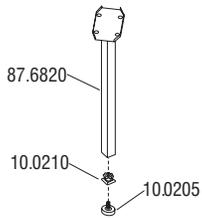


Yoke Plate  
**87.5010.XX**



Ganging Plate  
**66.7025.XX**

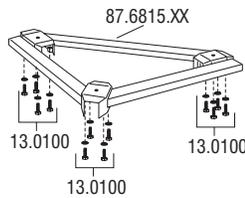
### MISCELLANEOUS



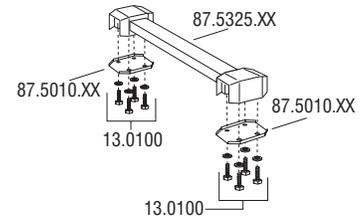
Corner Table Leg  
**87.6820**



Corner Table Spacer  
**87.6819.XX**

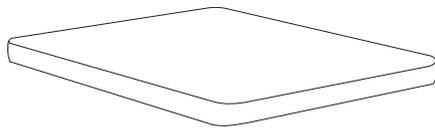


Corner Table Frame  
**87.6815.XX**



Back-to-Back Ganger  
**87.5325.XX**

### TABLES



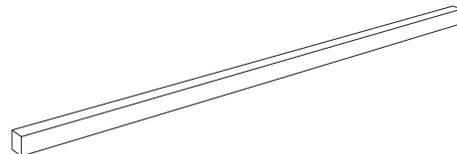
#### Inline Table

Dorsal 20" x 20"  
-Walnut TMR02  
-White TMR04

#### Corner Table

Dorsal 30" x 30"  
-Walnut TMRC2  
-White TMRC4

### BEAMS



Length	Part #	Length	Part #	Length	Part #
22 <sup>1</sup> / <sub>2</sub> "	87.5184	60"	87.5197	82 <sup>1</sup> / <sub>2</sub> "	87.5206
30"	87.5199	66"	87.5202	83 <sup>1</sup> / <sub>2</sub> "	87.5260
44"	87.5201	68"	87.5242	84"	87.5255
45"	87.5239	69"	87.5186	88"	87.5213
45 <sup>1</sup> / <sub>2</sub> "	87.5185	70"	87.5241	89"	87.5258
48"	87.5233	71 <sup>1</sup> / <sub>2</sub> "	87.5203	90"	87.5190
49 <sup>1</sup> / <sub>2</sub> "	87.5211	72"	87.5189	93 <sup>1</sup> / <sub>2</sub> "	87.5204
52"	87.5221	74"	87.5243	95"	87.5188
53"	87.5231	75"	87.5187	96"	87.5244
55"	87.5215	77"	87.5205	98"	87.5195
56"	87.5216	79"	87.5253	101"	87.5232
57 <sup>3</sup> / <sub>4</sub> "	87.5217	79 <sup>3</sup> / <sub>4</sub> "	87.5254	101 <sup>3</sup> / <sub>4</sub> "	87.5259
				108"	87.5256
				114"	87.5252
				115 <sup>1</sup> / <sub>2</sub> "	87.5214
				118 <sup>1</sup> / <sub>2</sub> "	87.5191
				121	87.5193



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