

■ Extol™ Auditorium Seating

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.

Tools Required:

- Hammer drill and bit for concrete anchor holes
- Drill and bit for pilot holes in wood floor
- 5mm & 6mm Allen wrenches
- 5/16" deep well socket with ratchet
- 3/16" open-faced wrench
- 1/8" open-faced wrench
- Chalk line
- Tape measure
- Torque wrench

Note: Read these assembly instructions carefully prior to product installation. Electrically interconnected furnishings must also be mechanically interconnected. Product failure and personal injury may result if instructions are not followed.

Minimum Construction Required For Upright Installation

Wood Floors

- Minimum two layers of 3/4" thick plywood
- APA rated grade plywood
- Allow minimum embedment 1 1/2" with lag screws
- Use toggle bolt if less than 1 1/2" embedment

Concrete Floors

- 3000 psi concrete compressive strength
- 3" thick free of obstructions for 1 1/2"
- Riser to be plumb within 1/8°
- Minimum anchor embedment 1 1/2"

Note: Warranty null and void if KI Extol Seating product line is installed on flooring not meeting minimum structural requirements stated above.

Floor Fastener Requirements

Wood Floors

- 5/16" x 1 3/4" lag bolts; grade 5
- 3/16" flat washers
- 3/8" toggle bolts
- All hardware to be plated
- Two bolt assemblies required per upright

Concrete Floors

- 5/16"-18 or 3/8"-16 grade 5 expansion anchors
- Standard flat washers, plated
- LockTite (red) thread lock or equal
- Two screw assemblies required per upright


Steps For Installation

1. Read and review Extol Auditorium Seating Assembly Instructions.
2. Review space-planning layouts.
3. Review job site and verify field conditions.
4. Verify floor structural conditions.
5. Stage product for installation.
6. Locate and mark layout reference points per site specific space planning layout.
7. Locate and drill upright holes into floor.
8. Attach uprights to the floor, following the space-planning layout. Install anchor bolts loosely to allow for adjustment.
9. Attach backs to the uprights. Refer to the space-planning layout to determine location of sizes and which top hole should be used on the back bracket (to determine the back angle) (center hole is standard).
10. Install aisle light tube and housing (optional).
11. Install the seats.
12. Tighten floor anchors.
13. Install ADA removable bases (optional).
14. Mount row and seat numbering (optional).
15. Clean product and site.

16. Walk through with installation crew to assure the product has been installed per Extol Auditorium Seating Assembly Instructions and space-planning layout.

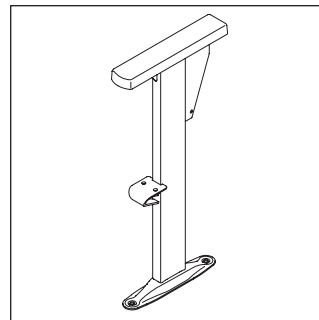
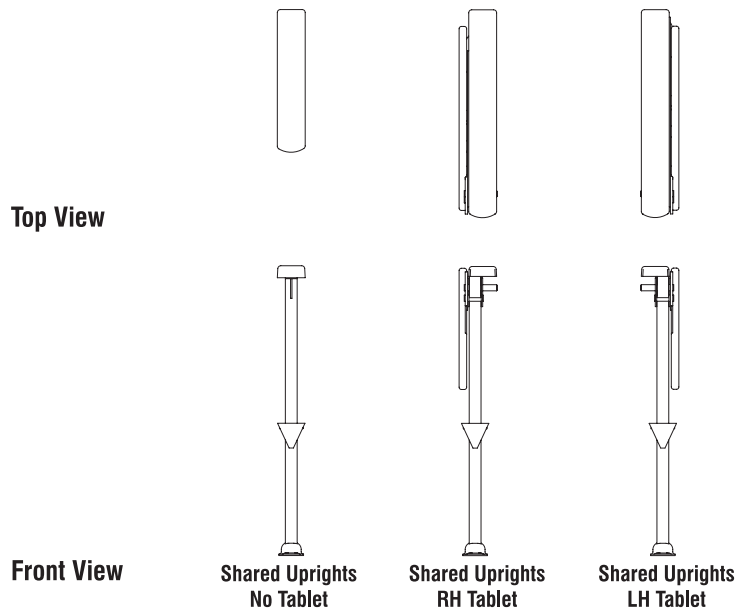
17. Perform final walk through with the customer. Receive sign-off.

Note: Dimensional spacing referenced is centerline to centerline unless otherwise noted.

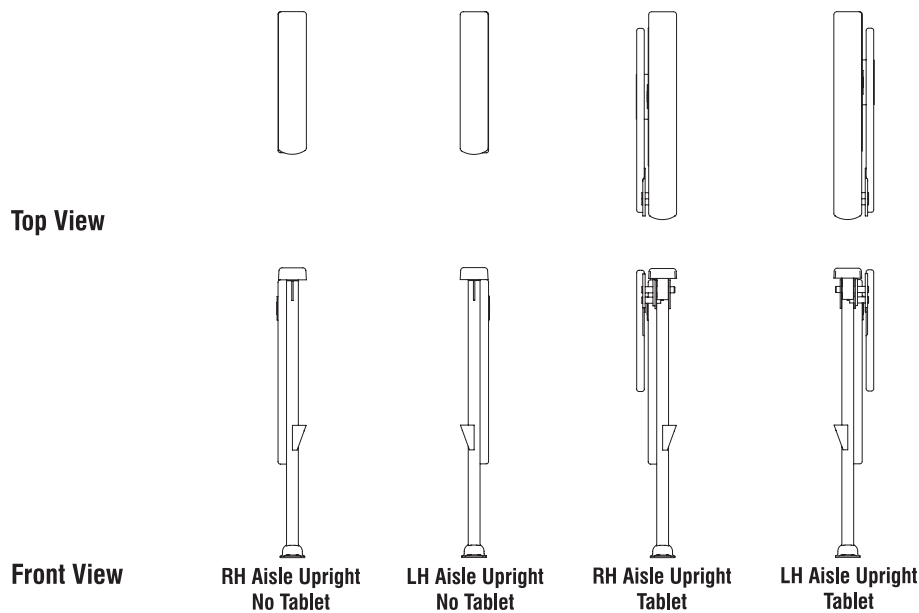


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**UPRIGHT IDENTIFICATION
 (For Reference Only)**



Floor Anchor Detail



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Upright Installation

1. Per the space-planning layout, stage uprights to appropriate locations on the floor.

Note: Each row will consist of right- and left-end uprights, with shared uprights in between.

2. Align the mounting holes in the upright with the site appropriate and properly installed floor anchors. Insert site appropriate fasteners with flat washers through to the floor. **Do not tighten uprights to the floor at this time.** Leave head of fastener approximately $\frac{1}{16}$ " loose from contacting the upright (Figure 1).

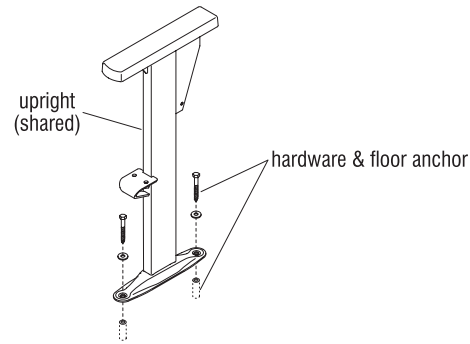


Figure 1

Back Attachment

1. Per the space-planning layout, stage back assemblies by size to appropriate upright locations on the floor.

Note: Left- and right-end uprights (right-end shown) have a set of weld-nuts attached to the uprights for attaching the back assembly with M6 x 16mm cap screws. Shared uprights use M6 nuts and M6 x 16mm cap screws to secure the back assemblies at the top and bottom.

2. Starting at either end of the row, loosely twist in a M6 x 16mm cap screw into the bottom rear hole in the end-upright back bracket. Then insert a M6 x 16mm cap screw through the bottom rear hole in the shared upright and loosely twist on a M6 nut (Figure 2).

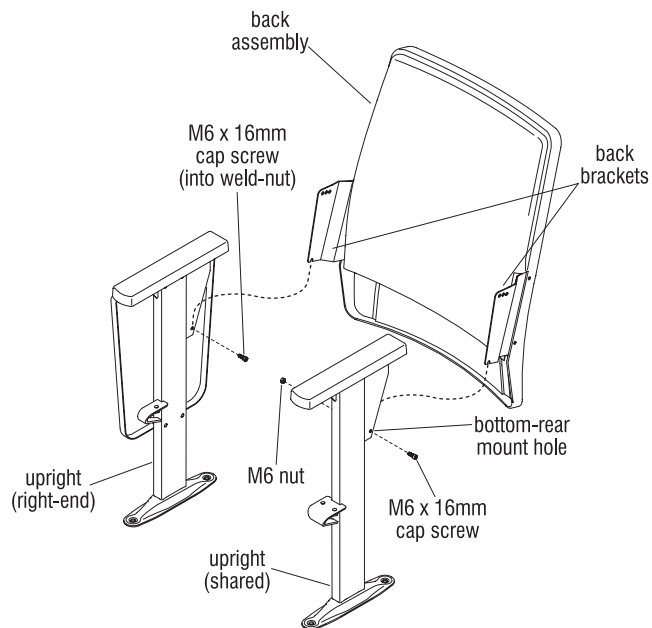


Figure 2

3. Lift up and position the back assembly in between the two uprights until the appropriate two slots in the lower part of the back brackets nest onto the two loosely attached M6 x 16mm cap screws in the upright's back bracket (Figure 2).



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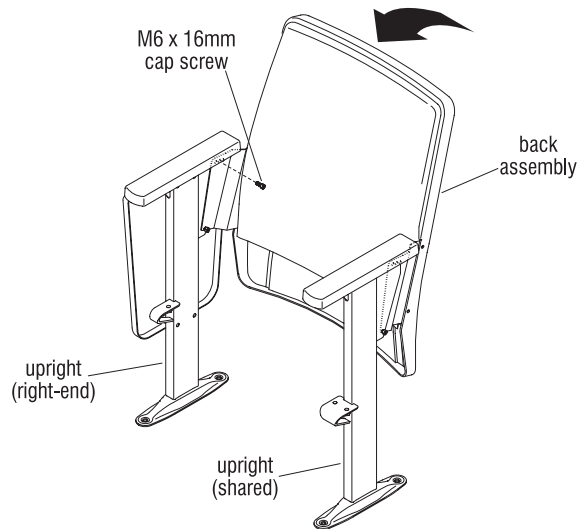


Figure 3

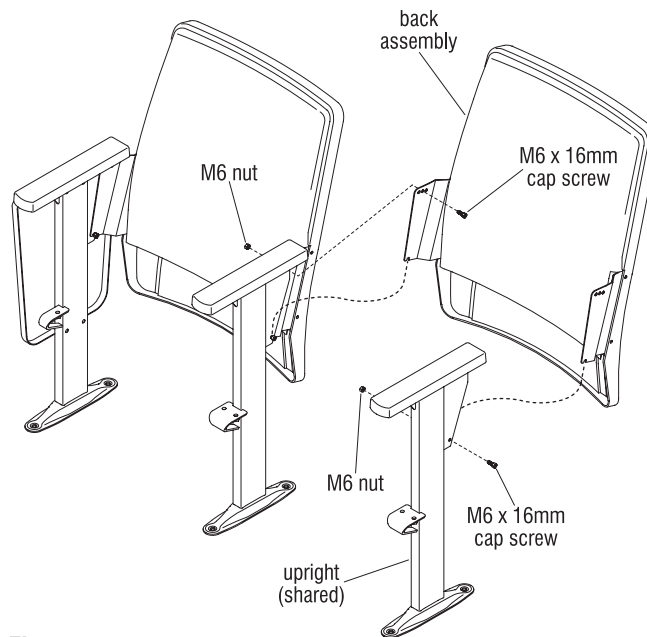


Figure 4

Back Attachment - cont.

4. With the bottom of the back bracket nested on the screws, rotate the top of the back assembly forward and align the desired set of upper holes in the back bracket with the holes in the top of the upright bracket (right-end). At this time, loosely insert the M6 x 16mm cap screw to hold the back bracket to the right-end upright (Figure 3).
5. To install a second back assembly in a row, first insert a M6 x 16mm cap screw through the bottom rear hole in the next shared upright and loosely twist on a M6 nut (Figure 4).
6. Lift up and rotate the back assembly in between the two uprights until the appropriate two slots in the lower part of the back brackets nest onto the two loosely attached M6 x 16mm cap screws in the two shared uprights' back brackets (Figure 4).
7. As in step 4 above, rotate the top of the back assembly forward and align the desired set of upper holes in the back bracket with the holes in the top of the upright bracket (shared). At this time, insert loosely the M6 x 16mm cap screw to hold the back brackets of both back assemblies to the common shared upright (Figure 4).
8. Continue on following the steps above until reaching the end of the row, then secure the final seat to the left-end upright similar to the right-end upright.

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Aisle Light Attachment

1. Remove the four #14 x 1/2" wood screws securing the end panel to the upright and move the end panel aside (Figure 5).

Note: The LED aisle light wiring is to be connected to a 12VDC Class II power supply by a qualified electrician who must check the electrical integrity of the finished system. The steps below are intended as a guideline for installation. All local codes must be followed.

2. Place the aisle light tube into the aisle light housing and align the LEDs to show down through the opening in the bezel (Figure 5).
3. Route the aisle light wiring first through the outside end panel hole, next into the outside upright hole, down the inner cavity of the upright and out the lower inside upright hole (Figure 5).
4. Attach the aisle light housing with light tube/wiring to the side of the end panel using two #10 x 1/2" T-25 Torx screws and #10 locking nuts (Figure 5).
5. Place the end panel back into position while carefully pulling aisle light wiring through the inside of the upright. From the inside, re-assemble the end panel to the upright with screws removed in step 1 (Figure 5).
6. Next, route the power wire through the 90° metal connector and through the 3/8" x 16" flexible conduit and out. Attach the conduit to the connector and the connector to the inside of the upright. Connect the power wires to a 12VDC Class II Power supply.

Important:

Observe polarity when wiring.
+ (positive) is the copper wire
- (negative) is the silver wire

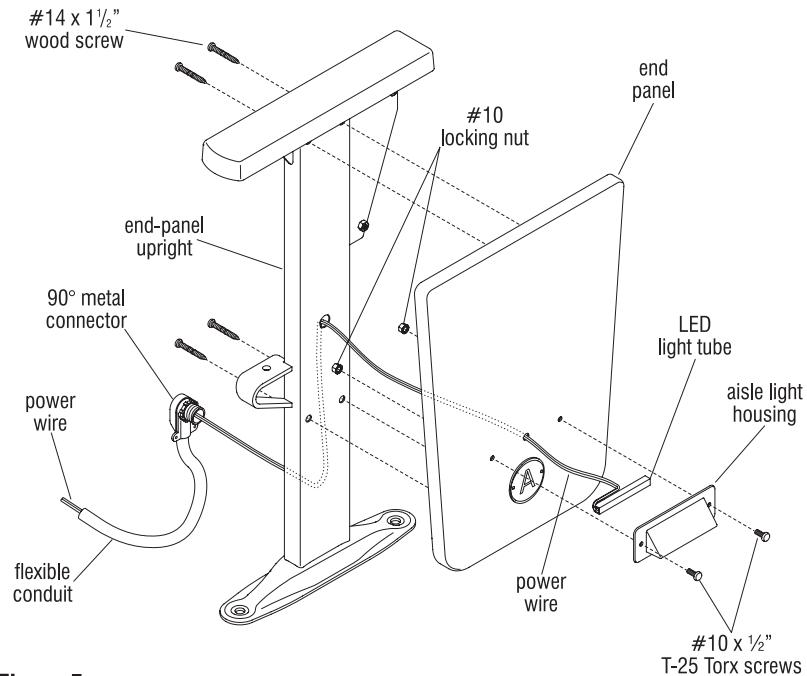


Figure 5



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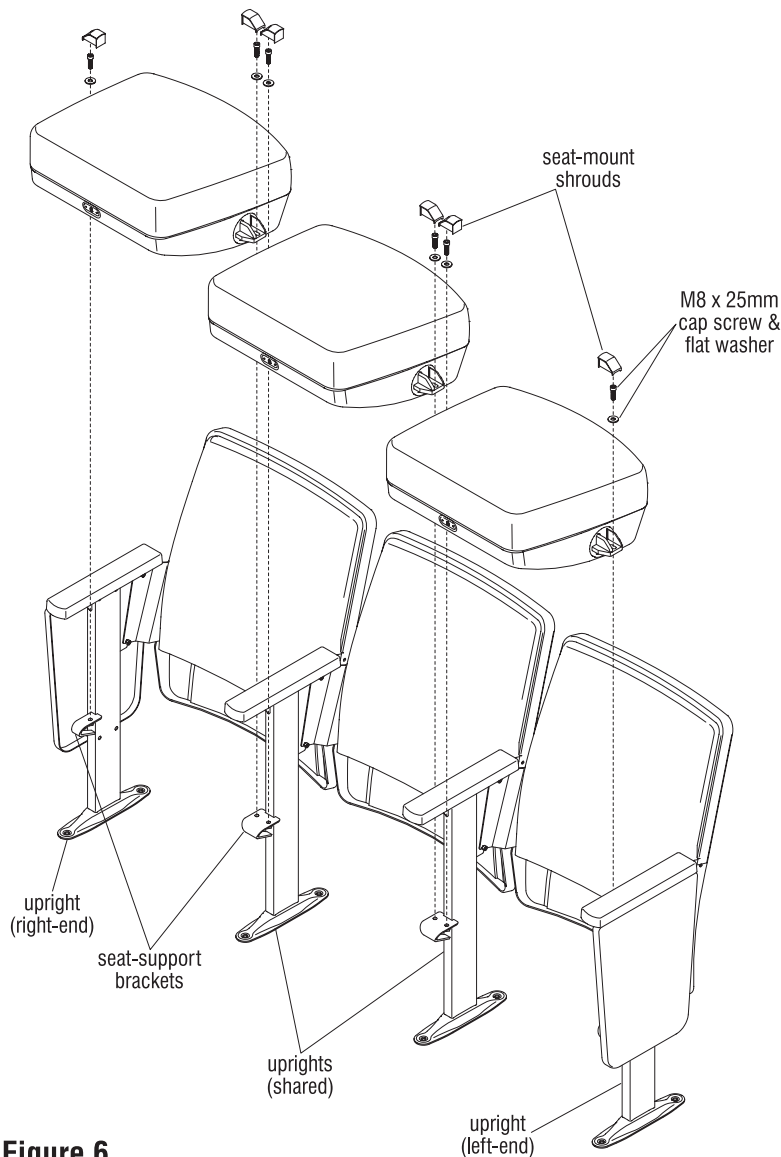


Figure 6

Seat Attachment

Note: Seat size and location are noted on the space-planning layout. Each seat assembly is marked with its size. Stage seats at site location according to the space plan.

1. Starting at one end of a row and one seat at a time, position a seat assembly onto the two seat support brackets of the uprights. Align the mounting holes of the assembly with the holes of the brackets. Place a flat washer on a M8 x 25mm cap screw and loosely attach the seat assembly points to the seat support brackets. Do not tighten fully at this time (Figure 6).
2. When all seats of a row are loosely attached, tighten all M8 x 25mm bolts in the row securing seats to upright support brackets. Check for free seat rotation up and down and adjust if necessary. Install all seat-mount shrouds to seat support brackets by snapping into place (Figure 6).
3. At this time, tighten all hardware securing backs to uprights, and tighten all floor anchors, properly securing uprights to the floor according to proper anchor specifications.

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ADA Removable Base

Note: The instructions below detail the installation of Extol uprights to the ADA removable base using the two different glide lengths. It is important to follow the assembly instructions completely during installation.

1. Begin installation by first locating the "outer base glides", with the shorter threaded shafts. As illustrated, place all outer glides (shorter shaft) up through the mounting holes in the ADA base and secure using $\frac{5}{16}$ " nuts provided (Figure 7).
2. Locate the longer shaft, "base to upright glides" provided. Starting at one end of the ADA base with the appropriate end upright, position the foot of the upright onto the ADA base and align two mounting holes as illustrated. Insert the base to upright glides (longer threaded shaft) up through the ADA base and through the mounting holes in the foot of each upright as illustrated. Secure the components together using $\frac{5}{16}$ " nuts on the glides (Figure 7).
3. Follow instructions on pages 1, 2 & 4 (Figures 2, 3, 4 & 6) for proper back and seat attachment. If equipped with accessories such as tablet arms, refer to those instructions too.
4. Place the assembled ADA Removable Base with Extol Auditorium Seating to the desired site location for mounting to the floor. Accurately mark the mounting holes to the floor, then move the unit out of the way.
5. Drill mounting holes and install anchoring hardware into the floor. Follow the proper floor fastener requirements for the site.

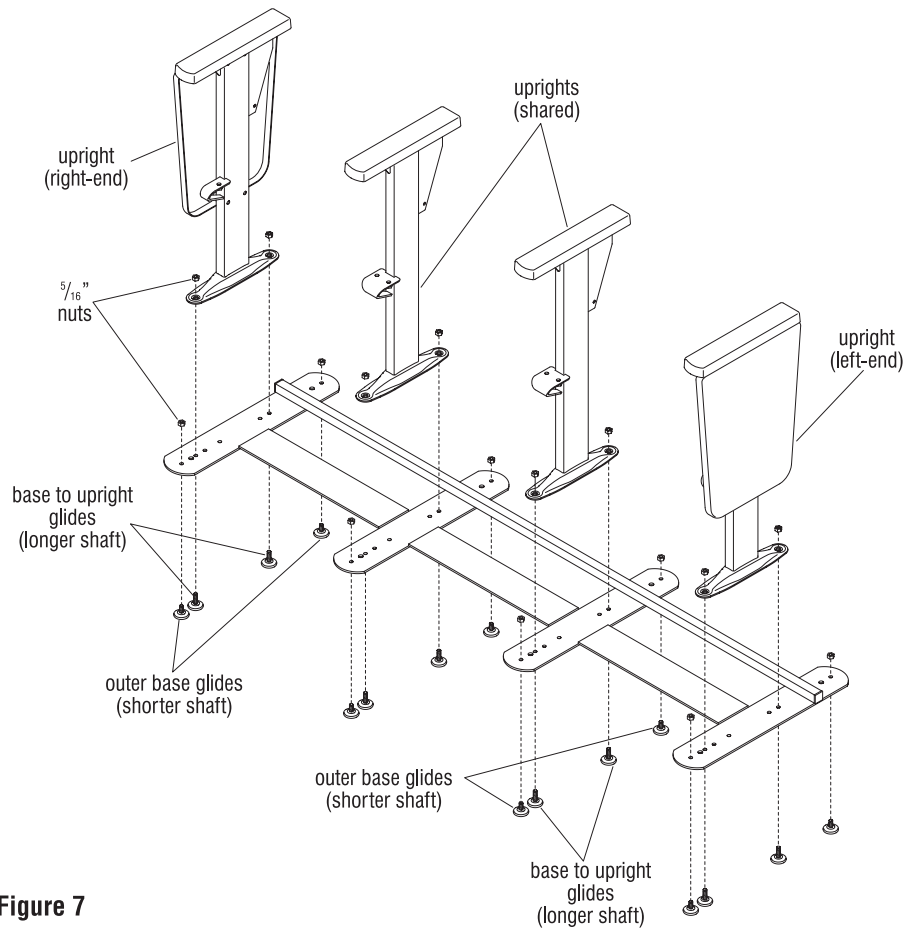


Figure 7



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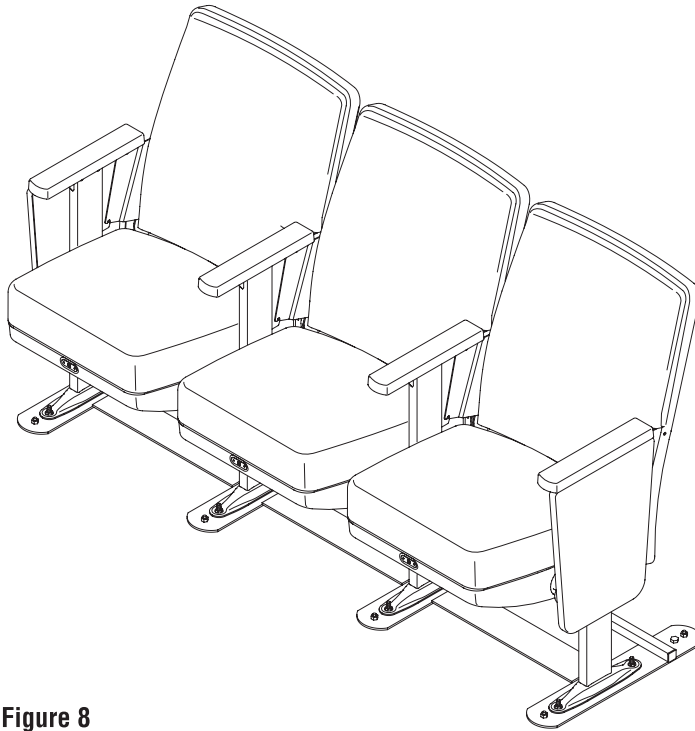


Figure 8

ADA Removable Base - cont.

6. Reposition the ADA unit and secure it to the floor, following floor fastening requirements (Figure 8).
7. For removal of the unit, remove the hardware that anchors the ADA base to the floor and move the unit. To reinstall unit, repeat step 6 above.

Note: Take great care when removing and reinstalling the unit. Damage to the anchoring hardware may result in expensive repairs to the floor and anchoring hardware.

Caution: Unit must be properly fastened to the floor. Failure to properly fasten unit to the floor may result in instability of the unit and personal injury.



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ADA Flip-Up Arm Row Marker installation

Note: The ADA Flip-Up Arm Upright installs the same as other uprights. The instructions below illustrate how to pre-drill and install row markers correctly.

1. Begin row marker installation by first reviewing the Figure 9 drilling diagram. Locate the top of the armcap and take care to measure down 13.41" from the top of the armcap, to the side of the upright at the location as illustrated (Figure 9).
2. At 13.41" down from the top of the armcap, follow the diagram dimensions and mark two drilling locations at 1.65" apart to be horizontal with the top of the seat support bracket. Use a center punch to accurately mark drilling locations, then drill two marker mounting holes using a #37 drill bit (Ø.104" dia.) (Figure 9).
3. Use two Phillips head 8mm wood screws to attach row marker to side of upright (Figure 10).

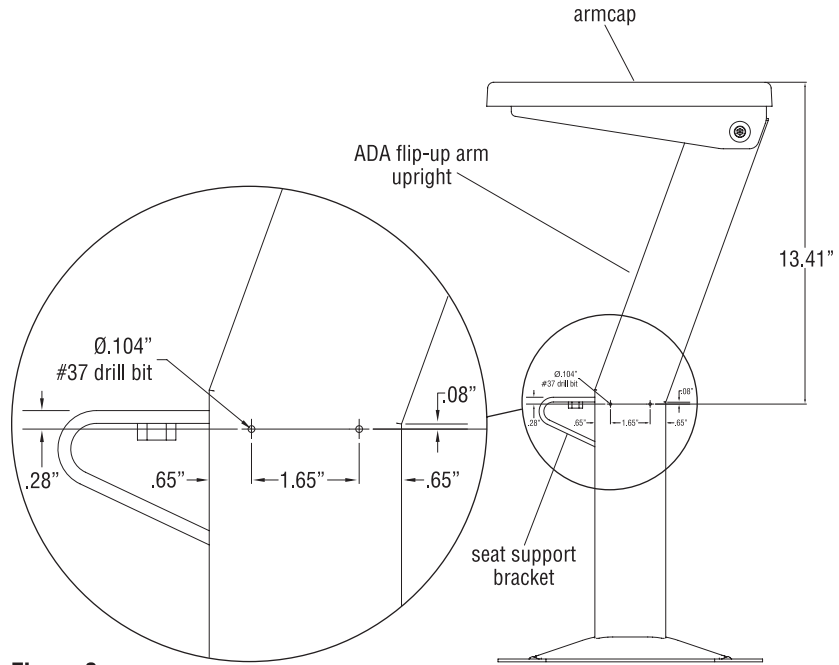


Figure 9

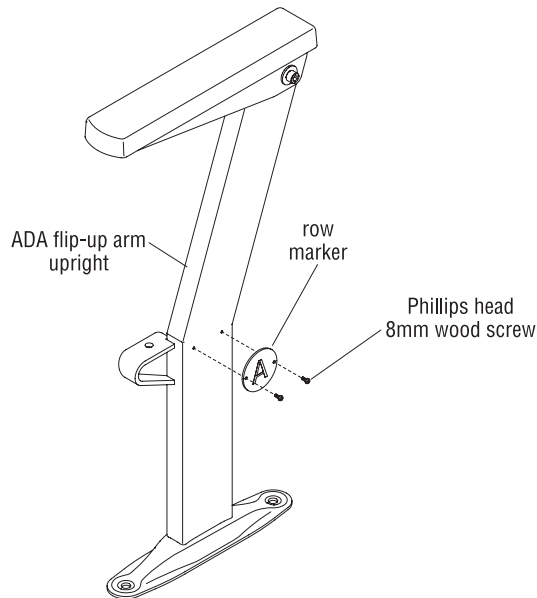


Figure 10

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