

Xsede Data Beam Assembly

Tools Required

- Box Cutter/Utility Knife
- Cordless Drill w/#2 Phillips head bit drive
- M4 Allen wrench key/drive
- M5 Allen wrench key/drive
- 1/2" Wrench (optional, **for caster assembly only**)

Hardware Required

- (1) - 48, 60, or 72 Data Beam Pack (45F**08PDBP)
- (2) - End Trims (45F08PDBETP)
- (2-3) - T-Legs (45F2014STPDBP) **(3-T-legs for shared beam)**
- (6) - 1/4-20 X 30mm Connector Bolts (45F**08PDBP)
- (6) - 1/4-20 X 17mm Connector Nuts (45F**08PDBP)
- (4) - 1/4-20 X 60mm Connector Bolts (45F08PDBETP)
- (2) - Data Tree (45F**08PDBP)
- (4) - Power and/or USB receptacles (own box)
- (1) - Jumper **(48, 60, or 72; for shared leg only)** (own box)
- (1) - 8-Trac Power Infeed w/loop clip & self drilling screw

Installation

1. Using a knife, open and unpack boxes, remove data beam, end trims, T-legs, receptacles, jumpers, and parts bags from their respective boxes. **See Figure A.**
2. Place end trims over both T-legs, and attach together using M4 Allen wrench and 1/4-20 X 55mm long connector bolts. **See Figure B.** Set t-legs aside.
3. Slide horizontal rail assembly over top of T-leg tube until bottom 2 holes align with top 2 T-leg holes. **See and follow Figure C Steps 1-3,** to attach horizontal rail assembly. On one side of rail, push 1/4-20 X 17 connector nut through rail and T-leg, and on the other side thread 1/4-20 X 30 connector bolts into connector nuts. Tighten both together using M4 and M5 Allen wrenches to insure nuts and bolts are secured. **Note: If sharing a leg, use only one hole of middle t-leg and start next horizontal rail on the next hole of the same t-leg.** To see example of standard and shared leg see next page, **Figure D.**

Figure A

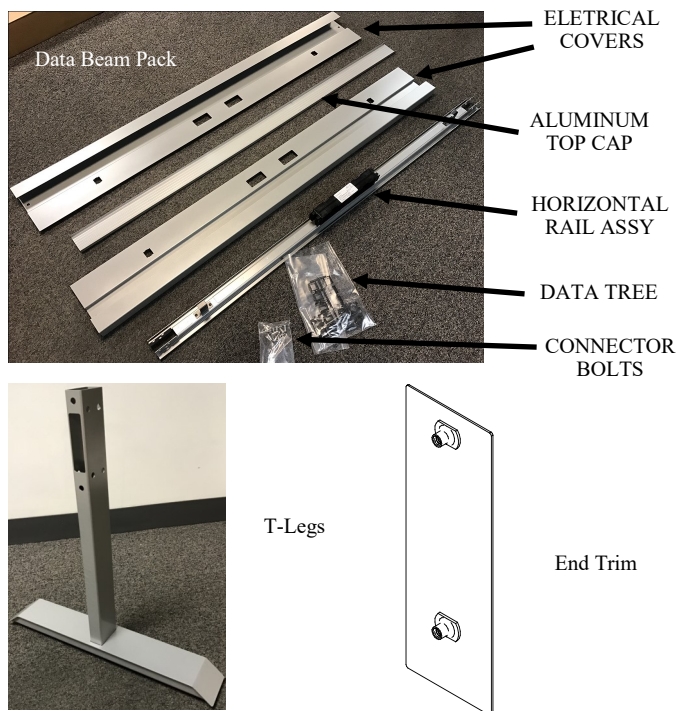


Figure B

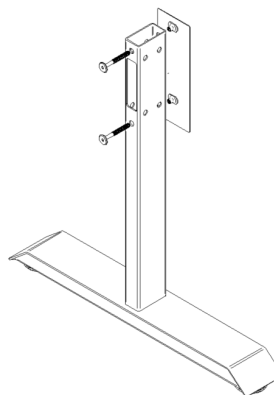


Figure C

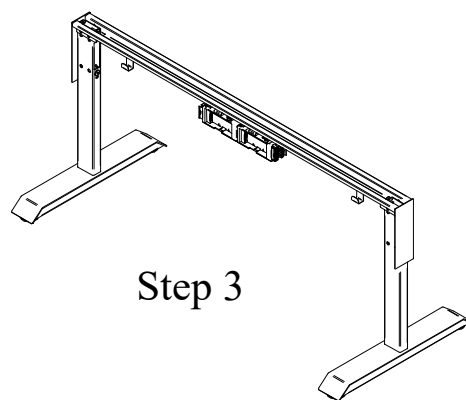
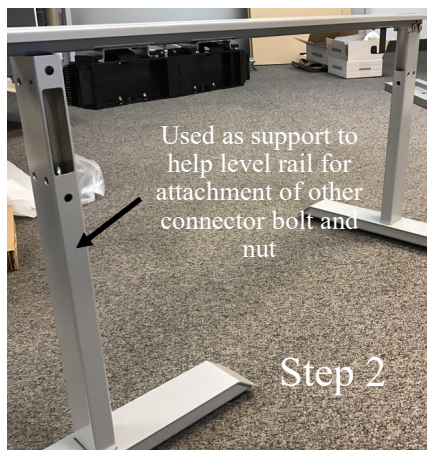
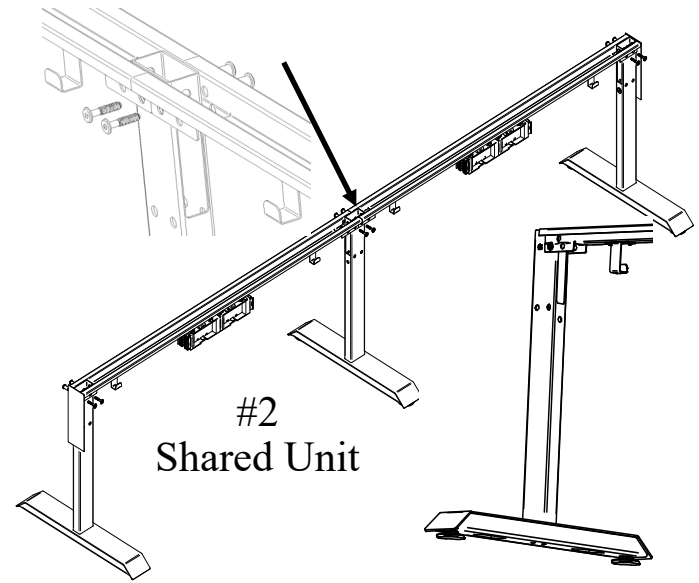
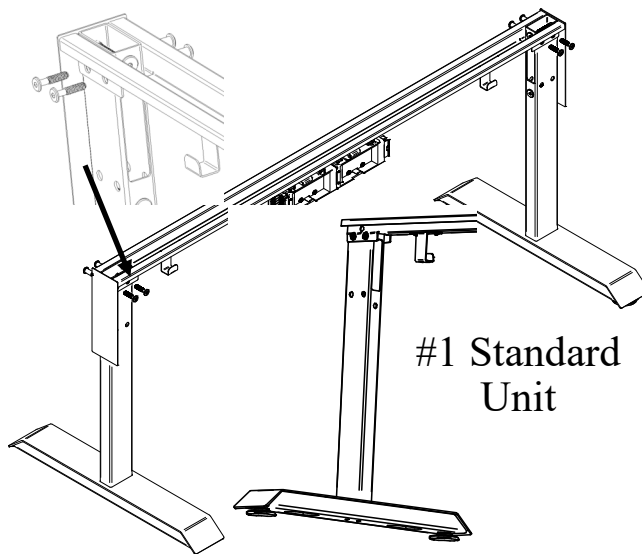


Figure D



5. Snap power/USB receptacles into double block on both sides. To do this, face tab down placing receptacle in block. Slide in correct direction until a snap is heard insuring receptacles are in place. See Figure E.
 6. Lay beam on floor or standing up-right. Connect infeed to double block. Slide loop clip packed in infeed box around infeed metal conduit. Locate loop clip between double block and J-hook. Attach loop clip with drill/#2 Phillips drive and pan head Phillips 1/4-14 X 3/4 self drilling wood screw. Loop clips are attach to horizontal rail on side of double block where infeed will supply power from source. This loop clip is used to insure infeed can't be pulled out when system is hot. It ***MUST*** be installed. See Figure F.
 7. **NOTE:** If using single circuit infeed, max receptacles per circuit (13 duplexes, 26 simplexes) must be followed.
 8. For shared legs, install correct jumper(s) the same way as infeed between T-legs using the cutout in the side of the T-leg to jump between each block. See Figure G.
- NOTE:** See Figure G, top right picture for installation of infeed and jumpers. Modular end will only fit one way.

Figure G

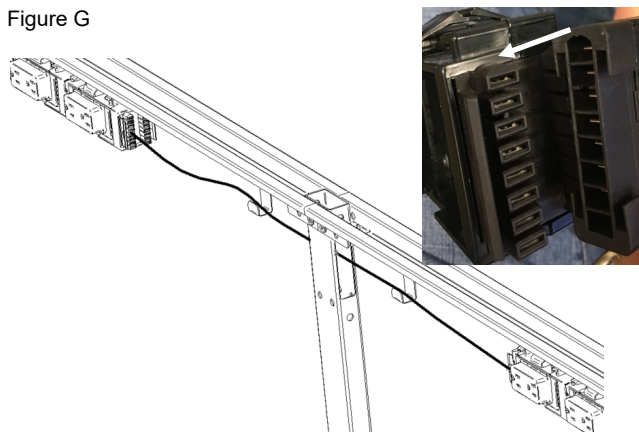


Figure E

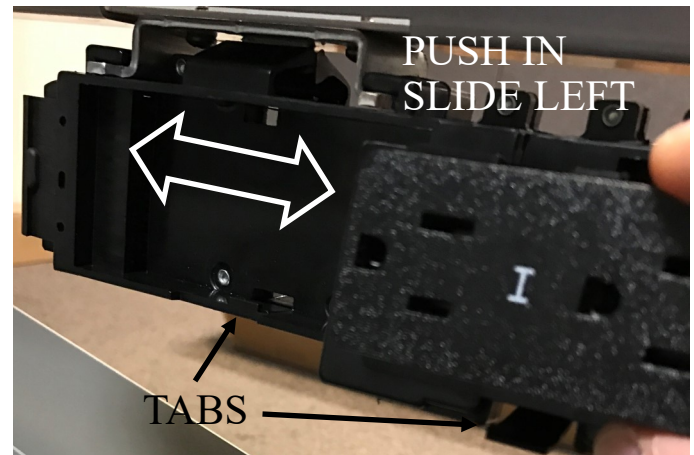
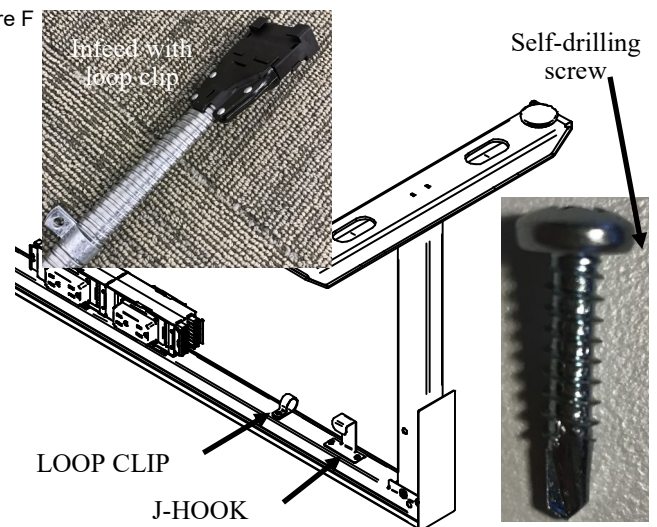


Figure F



9. Slide both electrical covers underneath horizontal rail assembly flanges and over top of electrical receptacles. See **Figure H**, make sure receptacles push through electrical covers.
10. Line up holes of electrical covers with outside holes on T-legs. To , one side use remaining 1/4-20 X 17 connector nuts and on other side remaining 1/4-20 X 30 connector bolts. Use the M4 and M5 Allen wrench key/drive to ensure bolts are tightened correctly. See **Figure H**.
11. If sharing a leg, use 1 hole per leg and start next electrical cover on outside in the next hole of same leg. **Same as assembly of horizontal rail assembly in step 3, Figure D. Note: There will be extra connector bolts and nuts if sharing legs.**
12. Last, grab aluminum top cap(s) and place over top of horizontal rail assembly. This cap will cover all internal parts and stays in place by snap fit. Press along the top cap from one end to the other end to insure it is secured. See **Figure I**.
13. To cover data knockouts, use provided data trees/voice adapter kits with blank covers to conceal knock outs in electrical covers. See **Figure J**.
14. For caster assembly, unscrew glides and set aside. Screw caster stems into bottom of T-legs propel nut. Using the 1/2" wrench, tighten nut on stem. "Pop" casters into place on stem. **Note: be careful not to hit caster too hard if using a shim and hammer casters in place. Hammering too hard will break casters.**

Figure H

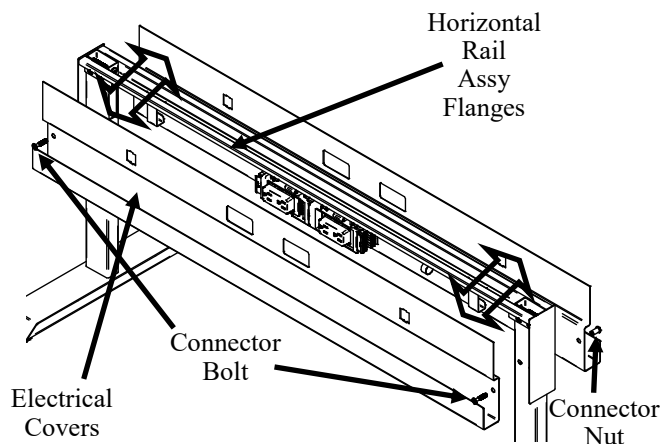


Figure I

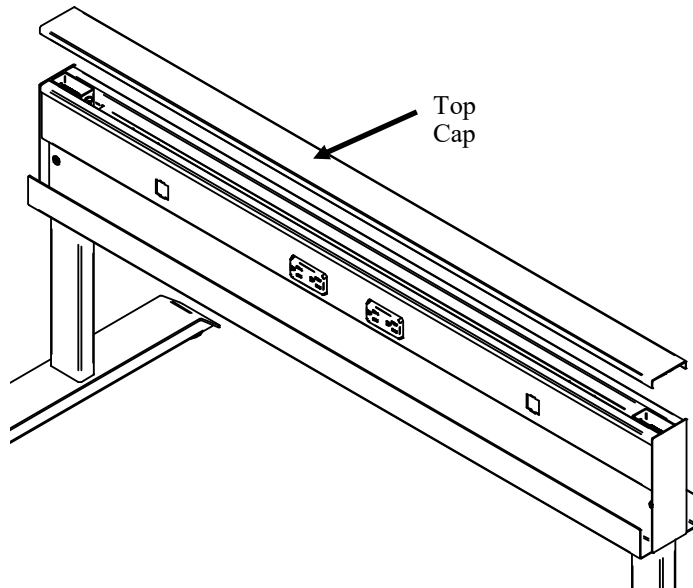


Figure J

