WILSONSTAK® LIBRARY and CANTILEVER RECORD MASTER® INSTALLATION INSTRUCTIONS

GENERAL INSTRUCTIONS:

1. Check parts and bundles against packing slip to be sure all parts and bundles were received.

2. Sort parts so that like parts are together. This will make installation easier and faster.

3. Read through the entire instructions carefully - before attempting to assemble the units. Units must be level.

4. Leveling - Units must be leveled (page 3). Each type of welded frame requires a different procedure for leveling.

5. Anchoring - Important to prevent tip over of units. Read and follow instructions for anchoring. Anchoring must conform to building conditions and local codes. Anchoring varies depending on heights and types of frames. All single face units require wall anchoring, or floor anchors and top tie struts. All units 78" and higher where adjustable shelves are vertically flush with base shelf require floor anchors or top tie struts. (pages 5, 6 and 13).

6. Loading - To ensure unit stability, units must be loaded starting at the base and working up. Double face units should be loaded on both sides equally starting at the base and working up.

IMPORTANT - PRODUCT LIABILITY INFORMATION

Read all instructions before proceeding with assembly. Vital product information pertaining to proper set-up and cautions are included. Failure to follow these instructions may result in personal injury and/or property damage.

IMPORTANT NOTICE - At no time should personnel be allowed to climb or stand on shelving product. Safe access to all shelving levels should be provided with ladders and/or other devices which are in accordance with applicable OSHA regulations.
STANDARD WELDED FRAMES

Standard welded frames are furnished with two adjustable leg levelers and two snap fit cap floor glides. Carpet pins will be substituted for levelers when specified. See page 4 for details.

![FIGURE 1](image1)

3/8-16 x 1-1/2 Leg Leveler Bolt
Snap Fit Cap

![FIGURE 2](image2)

Top Rail
Frame Upright
Upright Web
Carpet Pin
OPTIONAL
Bottom Rail
3/8-16 x 1-1/2 Leg Leveler Bolt

WELDED FRAMES WITH LEVELERS

1. Assemble snap fit cap to hex head of 3/8-16 x 1-1/2" leg leveler bolt. See Figure 1. (Snap fit cap prevents backstack units from creeping on a smooth-surfaced floor and can be eliminated if used on a carpeted surface).

2. Screw leg levelers into weld nuts in bottom rail of each welded frame as shown in Figures 2, 3, and 8. Screw leg levelers all the way in.

3. Stand frame upright and snap a base bracket assembly into place on the inside of frame uprights and as low as possible. (Frame should stand upright alone at this point). See Figure 4.

NOTE:

a) Single face units have left-hand and right-hand base brackets. Double face units have base brackets that may be used on either end.

b) Finished end brackets, if furnished, are installed on exposed ends of unit ranges.

4. Position the frame set-ups in range rows. Fasten frame uprights together, starting with the top joining holes provided in the frame upright web, using 1/4-20 x 5/8 Phillips pan head machine screws and 1/4-20 Keps nuts. Visually check that the slots in the adjoining frames line up with each other.

Do not bolt through base brackets at this time. See Figure 5.
LEVELING

5. After all frames are joined in a range, stretch a nylon line from one end of the range to the other end, at eye level. Adjust leg levelers so that they are all bearing on the floor surface and slots in the frame uprights are in line horizontally across face of range.

6a. Install balance of base brackets. Force base bracket down to floor surface. (Base brackets have a 3/4" adjustment allowance built in). Secure base brackets and the uprights with two (2) 1/4-20 x 3/4 Phillips truss head machine screws and two (2) 1/4-20 hex nuts. See Figure 6.

6b. Secure each base bracket to face of upright on both sides with #10 x 5/8 pan head sheet metal screws. See Figure 6.

IMPORTANT NOTE: Base brackets must be flush to floor to ensure unit stability and secured with sheet metal screws to prevent bracket from working up frame when loaded.

7. Secure base brackets together with a 1/4-20 x 3/8 Phillips pan head machine screw and a 1/4-20 hex nut through hole at front of base bracket in bracket depression. See Figure 7.

NOTE:
   a. It is not necessary to tighten nut and bolt beyond binding point since there is no load bearing at this point.
   b. The nut and bolt should not protrude beyond the depression of the bracket as book damage could result.
   c. Anchoring - requirements for anchoring units to floors and walls should be reviewed and followed. See pages 5, 6 and 13.

8. Install base shelves. See page 8.

FRAMES ARE NOW READY TO RECEIVE BALANCE OF COMPONENTS.
WELDED FRAMES WITH CARPET PINS   MUST BE SPECIFIED AS 4-POINT LEVELING SYSTEM
CARPET PINS MUST BE ORDERED SEPARATELY

1. Insert carpet pins into clip nuts in bottom rail of welded frame as shown in Figures 9A and 9B. Screw into threads only enough to firmly engage nut with pin.
2. Proceed as in Steps 2 through 7 on pages 2 and 3 - WELDED FRAMES WITH LEVELERS.
3. Insert carpet pins into base brackets. See Figures 9 and 10. Adjust carpet pins so that columns are plumb and all pin surfaces bear on carpet.
4. Install base shelves. See page 8.

FRAMES ARE NOW READY TO RECEIVE BALANCE OF COMPONENTS.

**FIGURE 9A**

**FIGURE 9B**

**FIGURE 10**
WALL ANCHORING

1. Wall anchor angles are provided with each single faced unit for securing to wall.

2. Fasten wall anchor angle to upright of frame by using a tie-down clip and a 1/4 x 5/8 Phillips pan head sheet metal screw. See Figure 11.

3. Unit is now ready to be secured to wall using lag or anchor of the installer's choice.

CAUTION: All single faced units must be anchored. Single face units are not recommended for free-standing units. When used where wall anchoring is not applicable, single faced units must be floor anchored. Units over 78" high should be floor anchored and top tie strutted.

CLOSED BACKS ON WALL ANCHORED UNITS

Read and review installation instructions on page 8 for installation of backs into units.

1. Assemble range of units with base brackets and set range against wall where units are to be anchored.

2. When backs are required, wall anchoring can be accomplished in two ways:
   a. With angle against wall and "L" portion over top of upright.
   b. With angle against wall and "L" portion over top of top horizontal member of frame.

3. Level units along range length by adjusting leg levelers and bolts attaching units together.

4. Mark anchor locations on wall.

5. Step units away from wall and install backs. Backs are to be placed with the flush side facing toward the base brackets. See Figure 20B on page 8 of this instruction manual.

6. Install wall anchor angle onto wall at marked locations.

7. Replace units against wall. Re-adjust levelers as necessary.

8. Attach angles to frames from the top down with a self-drilling screw (not provided). See Figure 12.

9. Install remaining components as required for specific application.
TRIANGULAR GUSSETS (optional)

1. Before joining welded frames side-by-side, sandwich triangular gussets between frames and base brackets and fasten with 1/4-20 x 1/2 Phillips pan head machine screws. See Figure 13.

2. Plumb uprights by installing shims under either side of gusset.

3. Secure welded frames together with 1/4-20 x 1/2 Phillips pan head machine screws and 1/4-20 x 5/8 Phillips pan head machine screws with 1/4-20 Keps nuts as shown. See Figure 13.

FIGURE 13

FLOOR ANCHORING

It is the responsibility of the user and installer to provide for proper anchoring of shelving sections. Anchoring to any part of the building structure requires that the local building codes be met.

1. Make sure shelving range is in line and that the base brackets are securely fastened to frames.

2. Plumb frames by using shims, as necessary, under base brackets.

3. Drill into floor using holes in base brackets as a template.

4. Install anchoring device (not provided) of the installer's choice or as required for the particular floor condition. See Figure 14.

FIGURE 14
T-BAR LEG BASE FRAME

NOTE: Applies to either leg leveler or carpet pin installation.

1. Assemble snap fit cap to leg levelers (see Figure 1, page 2). Screw leg levelers or carpet pins into T-bar leg base in holes provided. See Figure 16. Screw leg levelers up against bottom of base. (If carpet pin is used, insert as far up as possible without disengaging threads).

2. Assembling frames and leg bases. See Figures 15 and 17.
   a. Install frame extension over T-bar upright as shown in Figure 17 and fasten with 1/4-20 x 3/4 Phillips truss head machine screws and 1/4-20 Keps nuts.
   b. Install opposite extension of frame plus an extension of the adder frame into the next T-bar upright and fasten with 1/4-20 x 3/4 Phillips truss head machine screws and 1/4-20 Keps nuts. Continue to end of range.

3. Proceed to level and plumb frames to vertical and horizontal (see Step 5 on page 3). Adjust levelers or carpet pins with screwdriver and install button plugs into adjustment holes. See Figures 17 and 16.

4. Install filler channels at ends of ranges as required. Completed assembly shown in Figure 18.

FRAMES ARE NOW READY TO RECEIVE BALANCE OF COMPONENTS.
BASE SHELF - SINGLE or DOUBLE FACED

1. Place base shelf between base brackets tilted at a slight angle. Carefully align shelf notch with upright to avoid scratching. See Figure 19.

2. Lower opposite side in place exercising care not to scratch paint. Once shelf is parallel, tap edges into tabs in base bracket.

NOTE: When properly installed, base shelf will follow brackets to the floor and will overlap base bracket edges to give a continuous appearance along front.

CLOSED BACKS

NOTE: If closed back is used, it should be installed after the base shelf and before any other shelves are set into place.

1. Snap a closed back channel inside the open side of each upright of the frame. See Figure 20A.

2. The closed back will fit between the uprights, top rail and base shelf from the back side of the unit. Align holes in closed back with those in closed back channel and fasten with #10 x 5/8 Phillips pan head sheet metal screws. See Figure 20B.
STEEL CANOPY TOPS

1. Install canopy brackets in the top slots of the frame uprights. See Figure 21.

2. Single Frame Assembly:
   Set canopy top over the frame with the brackets on the outside of canopy top. Secure with 1/4-20 x 1 Phillips truss head machine screws and 1/4-20 hex nuts.

3. Multiple Unit Assembly:
   If units are side-by-side, bolt through both canopy tops and brackets using 1/4-20 x 1 Phillips truss head machine screws and 1/4-20 hex nuts.

SHELF END BRACKETS

NOTE: Shelf end brackets are formed opposite. There are left-hand and right-hand brackets.

1. Place shelf end brackets in slots of frame - flange out and tabs in. See Figure 22.

2. Make sure that both end brackets are at the same height from the floor.

3. If finished shelf end brackets are furnished, follow the above procedures with finished brackets installed on ends of range only.

NOTE: Left-hand end bracket shown in Figure 22.

ADJUSTABLE or DIVIDER SHELVES

1. Hardware not required. Place the adjustable or divider shelf between the end brackets, with the side flanges of the shelf fitting behind the tabs in the brackets. Tap shelf down, by hand, to be sure that the shelf is securely in place.

2. Shelves are now fully adjustable and can be easily located where required. See Figure 23.

CAUTION: When end panels are used, use care when adjusting shelves so as not to scratch end panels.
**FIXED PERIODICAL SHELF**

1. Secure the fixed periodical shelf to fixed periodical end brackets with #10-24 x 3/8 Phillips truss head machine screws and #10-24 hex nuts.

2. Set assembled shelf on uprights of frame by fitting tabs of the brackets into slots of the frame upright.

![Fixed Periodical Shelf Diagram](image)

**STORAGE SHELF**

1. Canopy top brackets are used to support the storage shelf. Set canopy top brackets into slots in uprights of frame at equal distance from the floor.

2. Set the storage shelf on the brackets, with the brackets inside the shell flanges. Secure the storage shelf to the canopy top brackets using 1/4-20 x 1 Phillips truss head machine screw and 1/4-20 hex nuts. See Figure 25.

![Storage Shelf Diagram](image)
HINGED PERIODICAL SHELF

1. The hinged periodical shelf end bracket is similar to a regular adjustable shelf end bracket except a pivot hole has been punched into it. See Figure 26A.

2. Assemble an adjustable shelf as outlined in section ADJUSTABLE or DIVIDER SHELVES on page 9 using hinged periodical end brackets.

3. There are four (4) holes provided in the face of the shelf pan (at each end) so that 12" or 16" deep shelves may be used. Pivot brackets for 12" and 16" shelves are different. (Check size of bracket if shelf does not balance properly after assembly).

4. Place hinged periodical shelf pan over narrow flange of pivot bracket and align holes. See Figure 26B.

NOTE:
   a. The first and third holes from the top of shelf pan are used with 3" pivot bracket and 12" adjustable shelves.
   b. The second and fourth holes from top of shelf pan are used with 6" pivot bracket and 16" adjustable shelves.

5. Fasten pivot brackets to hinged periodical shelf pan with #10-24 x 3/8 Phillips truss head machine screws and #10-24 hex nuts.

6. Align holes in pivot brackets with 1/4 flat washers and holes in hinged periodical shelf end brackets and fasten with 1/4-20 x 5/8 pan head screws and 1/4-20 Nyloc nuts. Head of screw should be on outside of bracket and Nyloc nut toward inside of shelf. See Figure 26A.

NOTE: Hinged periodical base shelves - install screws in base shelf end brackets before installing base shelves.

7. Install bumpers at each end of top flange on shelf pan and on back bottom corners.

FIGURE 26A

FIGURE 26B
HINGED PLEXIGLASS COVERS

NOTE: Complete the assembly of the hinged periodical shelf before installing the plexiglass covers.

1. Installation is the same for both the one-piece and the two-piece covers. See Figure 27A.

2. Hinged periodical shelves are provided with the piano hinges welded on.

NOTE: Steps 3 and 4 below can be replaced by using double-sided tape on the underside of the hinge to fasten plexiglass cover. Tape not included.

3. Center plexiglass sheet under hinge. Using pre-drilled holes in hinge as a template, drill holes through plexiglass cover.

4. Pop rivet the cover in place through the hinge, plexiglass and #10 flat washer with a 3/16 Lo-pro pop rivet. See Figure 27B.

5. Shelves are now ready to be located. See Figure 27A.

WALL HUNG COLUMN STRIPS - use instead of welded frame against wall

1. Lag or anchor the column strip where required; normally 36" on center. See Figures 28A, 28B and 29.

2. Be sure the column strip is plumb and that the tops are level. Lags and anchors are not supplied and must meet local building codes. See Figures 28A and 29.
TRANVERSE TOP STRUTS

1. Top struts are used with non-freestanding and open-base bookstacks to tie units together and add stability. See Figure 30.

2. Top struts are fabricated with different dimensions on each end. Insert narrow end of one into wider end on the next top strut. See View Z-Z. Use one (1) 1/4-20 x 3/4 Phillips truss head machine screw and one (1) 1/4-20 hex nut to secure top struts together.

3. Use two (2) #10 x 5/8 sheet metal screws to secure transverse top struts to the top rail of welded frame. See Figure 30.

SLIDING REFERENCE SHELF

NOTE: Sliding reference shelves should be located at a convenient working height or positioned to suit conditions of assembly. The slides and housings are pre-assembled and attached to the reference shelf.

1. Place an adjustable or divider shelf between two shelf end brackets with the side flanges of the shelf fitting behind the tabs in the brackets. Tap down the shelf, by hand, until the shelf is securely in place. (Reference Steps 1 and 2, Figure 23, page 9).

2. Attach the slide housing to a right and left hand shelf end bracket through holes in and bracket tabs using 1/4-20 x 5/8 Phillips pan head machine screws and 1/4-20 Keps nuts.

3. Reference shelf assembly is now ready to be installed into slots of frame uprights at desired location and height.
DIVIDERS

1. Dividers are set in shelf by first hooking the front hook of divider into the slot at the front of the shelf. See Figure 32.

2. Then, insert rear hook of the divider into the slot in the divider shelf back stop. Tab at the back of the divider should fall into the slot at the back of the shelf as shown.

STEEL END PANELS (Closed Base)
SINGLE FACED END PANELS

1. Stand end panel against welded frame and attach to the upright with 1/4-20 x 3/4 Phillips pan head machines screws and 1/4-20 Keps nuts. See Figure 33.

2. Secure end panel to base bracket with a #10 x 5/8 Phillips pan head sheet metal screw. (Reference Figure 35).

DOUBLE FACED END PANELS

1. Align end panel filler channel with welded frame upright. See Figure 34A. Attach panel to upright with 1/4 x 5/8 Phillips pan head sheet metal screws and tie-down clips – two (2) each for units 66° and three (3) each for units 66° and higher.

2. Secure end panel to base bracket with #10 x 5/8 Phillips pan head sheet metal screws. See Figure 35.

3. If canopy top and brackets are used, attach canopy top and brackets to end panel with 1/4-20 x 1 Phillips truss head machine screws and 1/4-20 hex nuts (hardware not shown in Figure 35).
LAMINATED or WOOD END PANELS  
DOUBLE FACED END PANELS

1. Stand end panel against welded frame and center over frame upright. Using holes in web of frame, attach wood panel to frame with wood or sheet metals screws. **Screws not provided.** See Figure 36.

2. Attach end panel at top through canopy top bracket holes. **Screws not provided.**

3. Attach panel at bottom through holes provided in depression of base bracket. **Screws not provided.** See Figure 36.

FIGURE 36

CANOPY BRACKETS FOR WOOD TOPS

1. When a wood canopy top is used, install brackets in the top holes of the frame upright and secure canopy side angle brackets to canopy brackets with 1/4-20 x 1 Phillips truss head machine screws and 1/4-20 hex nuts. See Figure 37.

2. Set the wood canopy top on assembled brackets and position as desired. Secure top to brackets with wood or sheet metal screws. **Screws not provided.**

3. If units are side-by-side, bolt through both brackets using 1/4-20 x 1 Phillips truss head machine screws and 1/4-20 hex nuts. See Figure 38.

FIGURE 37

FIGURE 38
SLIDING SUPPORT SYSTEM®

1. To engage sliding support, place slider block directly over rail and snap in place. See Figure 39A.

2. DO NOT attempt to move sliding support by grasping wire. The support is designed to lock in place when force is applied to the wire. DO grip support by the plastic slider block to move it in either direction. See Figure 39B.

3. To remove the sliding support from the rail, apply thumb pressure to right of slider block. Grip wire form with free hand and twist as shown in figure 39C.

NOTE: Remove the sliding support in this fashion. It is designed to be rugged, but not indestructible.

![Figure 39A](image)
![Figure 39B](image)
![Figure 39C](image)

SLOPING DISPLAY GUSSETS

1. Attach gussets to shelving units as outlined on page 6 of these installation instructions. Sloping display gussets have a gusset angle welded to the inside of each end gusset and intermediate gussets have gusset angles welded to both sides of gusset.

NOTE: Single faced units will have left-hand and right-hand end gussets. Double faced units will have universal end gussets.

2. Attach steel kickplate to gussets with 1/4-20 x 1/2 Phillips pan head machine screws. See Figure 40. Attach adjacent kickplates through gussets with common screws.

3. Install a 7" actual depth integral back shelf at the base and into slots of gusset angle. Add an 8" actual depth shelf 12" above the base shelf. See Figure 40.

4. The remainder of the unit may be furnished with shelves of customer's choice.

![Figure 40](image)
RANGE FINDER

1. Install range finder by placing it at the desired location and securing it with two (2) #10 x 5/8 Phillips head sheet metal screws. See Figure 41.

CARD HOLDERS

1. Cardholders are supplied with double-sided tape. Location of card holder is individual customer preference.
2. Apply double-sided tape to back of card holder.
3. Remove protective paper from second side of tape and press firmly in desired location.

CORNER FILLERS

1. Attach the corner filler pieces to the welded frame uprights through the holes provided using 1/4-20 x 5/8 Phillips pan head machine screws and 1/4-20 hex nuts. See Figure 43.
2. Insert bottom angles into slip joints at bottom of filler panel for floor attaching (optional).
3. Join the two fillers together at the slip joint provided along vertical edge.
4. Place the top cap in position. Tap down the top cap, by hand, until it is securely in place.
INTERMEDIATE WALL FILLERS

1. Attach the three pieces of the filler to the various welded frame uprights through the holes provided using 1/4-20 x 5/8 Phillips pan head machine screws and 1/4-20 hex nuts. See Figure 44.

2. Join the fillers together at the slip joints along vertical edge.

3. Place the top cap in position. Tap down, by hand, the top cap until it is securely in place.
NEWSPAPER RACKS

1. Secure support members to newspaper rack end brackets, one at lower rear and one at lower front of end brackets, using 1/4-20 x 3/4 Phillips truss head machine screws and 1/4-20 hex nuts. See Figure 45A.

2. Install newspaper rack end brackets in slots on frame uprights equal distance from the floor. See Figure 45B.