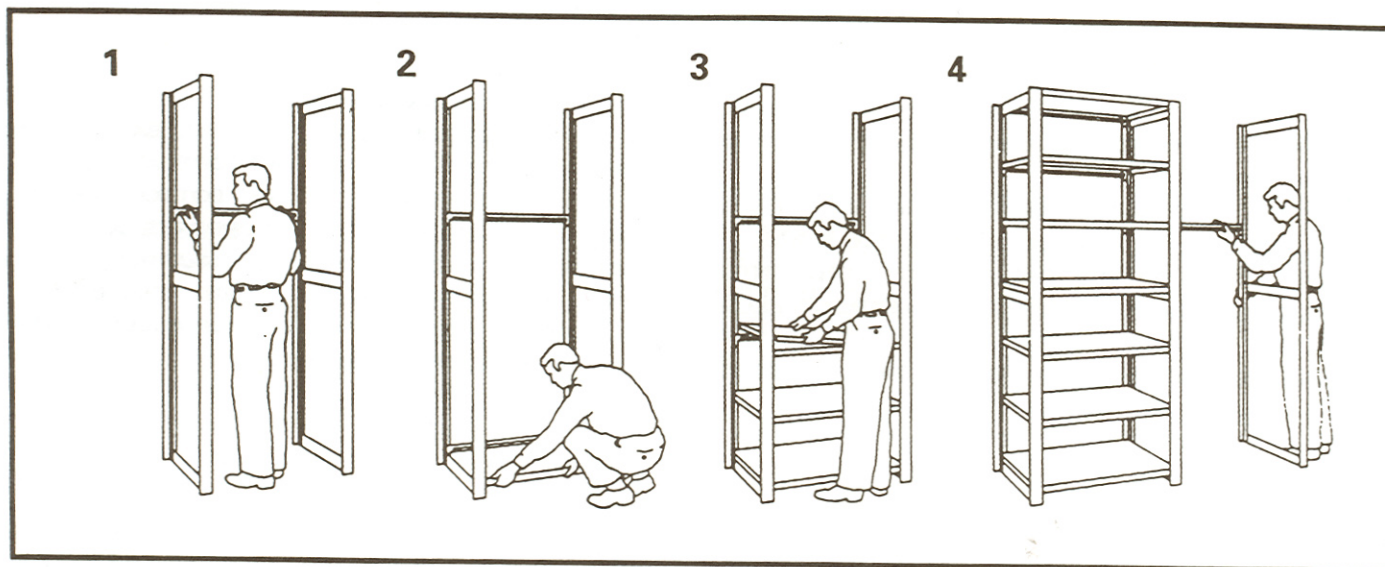


TENNSCO Assembles in Minutes ...

NOTE: Shelf support "ears" point must point down. Tap with hammer or rubber mallet to seat firmly in the upright connection hole.

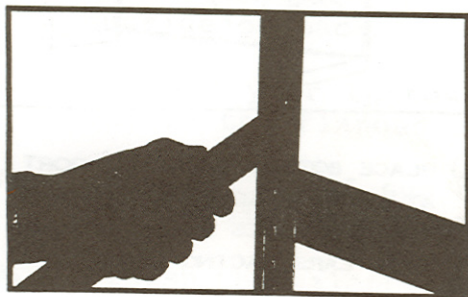


1. Position uprights with one shelf support temporarily placed to hold them up.

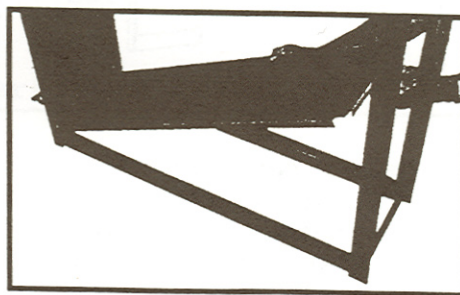
2. Assemble from bottom up. Position front base with small flange on floor and ends held in place between front shelf support and the upright. Place rear shelf support.

3. Place bottom shelf over supports. Continue building unit upward two supports & one shelf at a time. If units include front-to-back reinforcements, hook over supports before putting shelf in place.

4. Continue building using T-style uprights common between add-on units. Backstops, centerstops, and dividers may be installed as-you-go or later.



Rivets on shelf supports fit into holes punched on inner wall of upright posts.



Shelves fit over shelf supports, quickly and easily.

"L" & "T" SHELVING SYSTEMS

ASSEMBLY INSTRUCTIONS NO.83-2-25

IMPORTANT - BEFORE YOU START

BEFORE YOU BEGIN ASSEMBLY OF "L&T" SHELVING

1. CHECK YOUR FLOOR PLAN. PLAN TO ASSEMBLE SECTIONS FROM LEFT TO RIGHT.
2. CHECK THAT ALL ITEMS HAVE BEEN RECEIVED.
3. CHECK THAT FLOOR WILL SUPPORT SHELVING LOAD. IT IS THE USER'S RESPONSIBILITY TO PROVIDE ADEQUATE FLOOR TO SUPPORT SYSTEM.
4. PROVIDE FOR ANCHORING SECTIONS TO PROVIDE STABILITY. SECTIONS MAY BE ANCHORED TO THE WALLS, USING WALL ANCHORS(LTWT-1)

OR TO EACH OTHER USING U-CLIPS(LTUC-1) AND CLOTHESPINS(LTCP-1). OR TO OPPOSITE SECTIONS. IT IS THE USER'S RESPONSIBILITY TO PROVIDE FOR ANCHORING SHELVING.

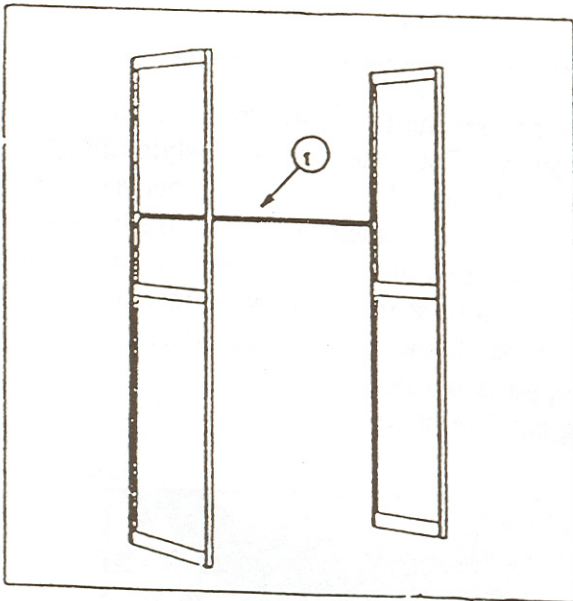
5. CHECK THAT FLOOR IS LEVEL. IF NOT OR IF SLIGHT VARIATIONS EXIST, USE SHIM MATERIALS(LTSP-1), TO INSURE SECTIONS ARE LEVEL AND PLUMB. NECESSARY TO EASILY ASSEMBLE SUCCEEDING UNITS.

GENERAL ASSEMBLY INSTRUCTIONS

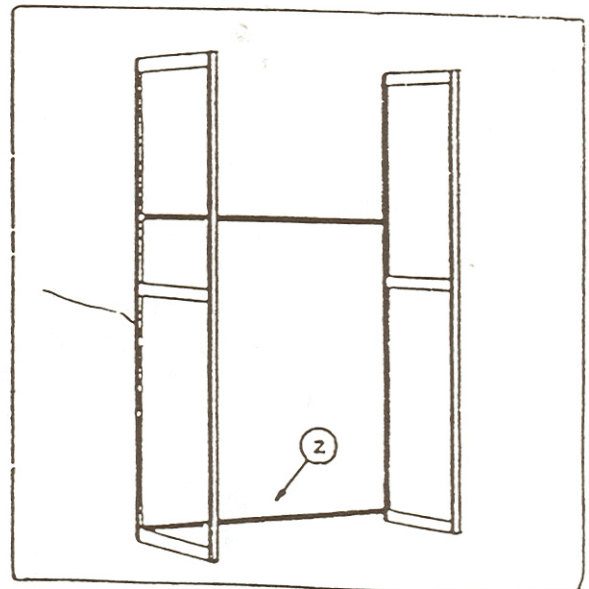
1. ALWAYS ASSEMBLE SECTIONS FROM BOTTOM UP.
2. ALWAYS ASSEMBLE SUCCEEDING SECTIONS FROM LEFT TO RIGHT, AND FROM THE BOTTOM UP. DO NOT START NEXT SECTION UNTIL FIRST SECTION IS COMPLETED.
3. ALWAYS SEAT EACH SHELF SUPPORT AS IT IS INSTALLED WITH A HAMMER OR ANOTHER SHELF SUPPORT. THIS DRIVES THE RIVETS TIGHT INTO THE KEYHOLE SLOTS, MAKING IT RIGID.
4. INSURE THAT UPRIGHTS ARE LEVELED AT THE BOTTOM AND PLUMB ON ALL ADDITIONAL UNITS.

BY USING SHIMS(LTSP-1) AS REQUIRED. THIS IS ESPECIALLY IMPORTANT ON UNITS REQUIRING BACKS OR DOORS.

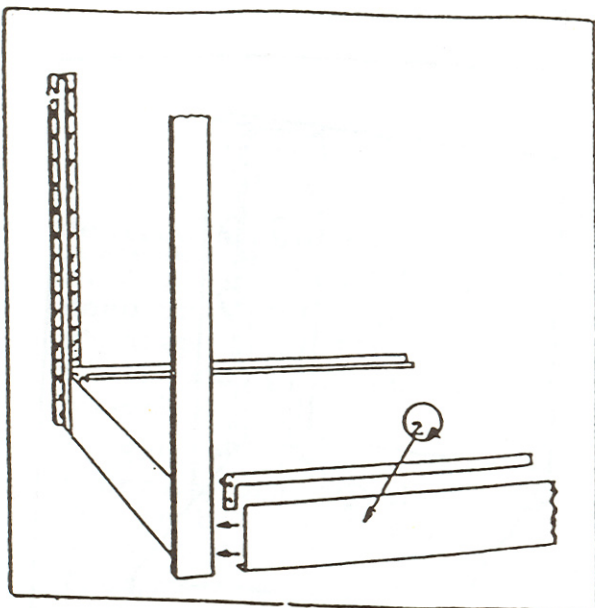
5. IF BACKS ARE USED, INSTALL BACKS AFTER INSERTING A TEMPORARY SUPPORT AT EYE LEVEL, AND THEN INSERTING BOTTOM SHELF SUPPORTS. IF ALL SHELF SUPPORTS ARE INSERTED BEFORE THE BACK IS SNAPPED IN, IT WILL BE IMPOSSIBLE TO INSERT THE BACK.
6. DOOR UNITS ARE TO BE INSTALLED AFTER UNITS HAVE BEEN ASSEMBLED.



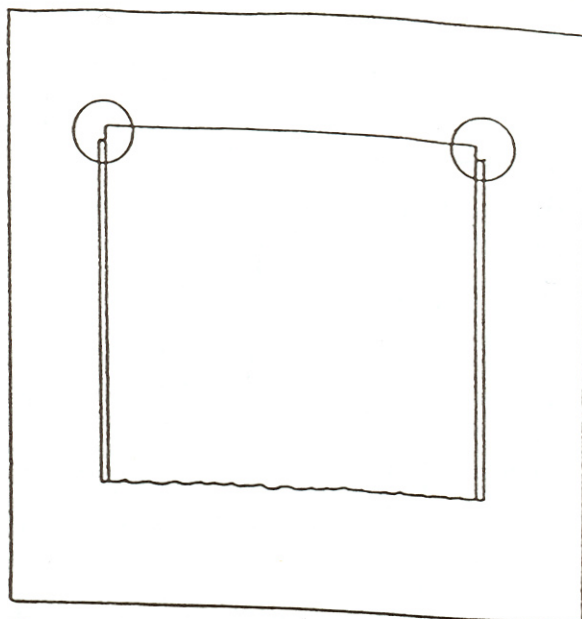
1. UPRIGHTS AND SHELF SUPPORTS. POSITION UPRIGHTS. TEMPORARILY PLACE ONE SHELF SUPPORT AT EYE LEVEL TO PROPERLY SPACE UPRIGHTS.



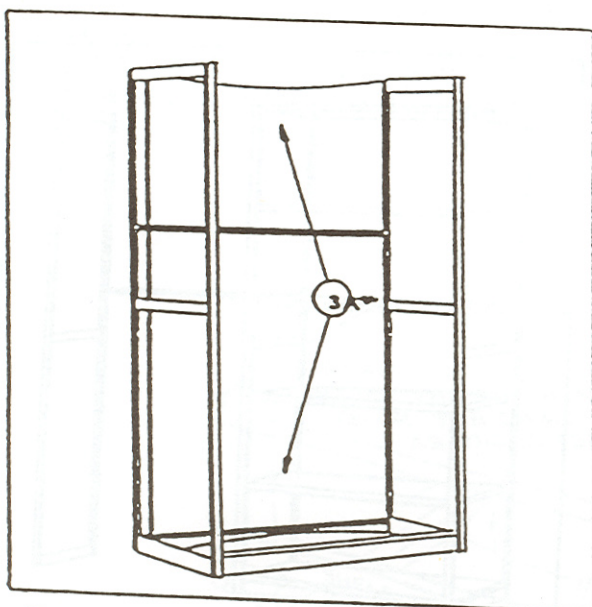
2. PLACE BOTTOM SHELF SUPPORT AT BACK OF SECTION, IN 2ND AND 3RD HOLES FROM BOTTOM WITH EARS FACING DOWN.



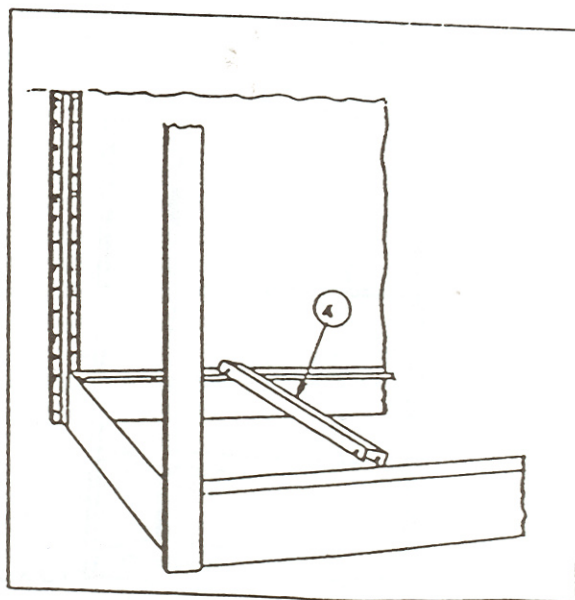
2A IF OPTIONAL FRONT BASE IS USED POSITION IT INSIDE UPRIGHT POSTS FLANGE ON FLOOR, BEFORE INSERTING FRONT SHELF SUPPORT.



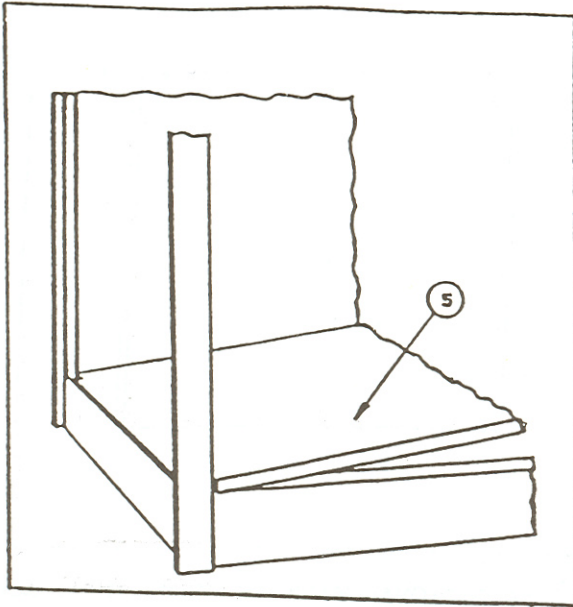
3 IF OPTIONAL BACK IS USED MAKE SURE NOTCHES ON BACK ARE AT THE TOP TO ALLOW TOP SHELF TO BE EASILY INSERTED



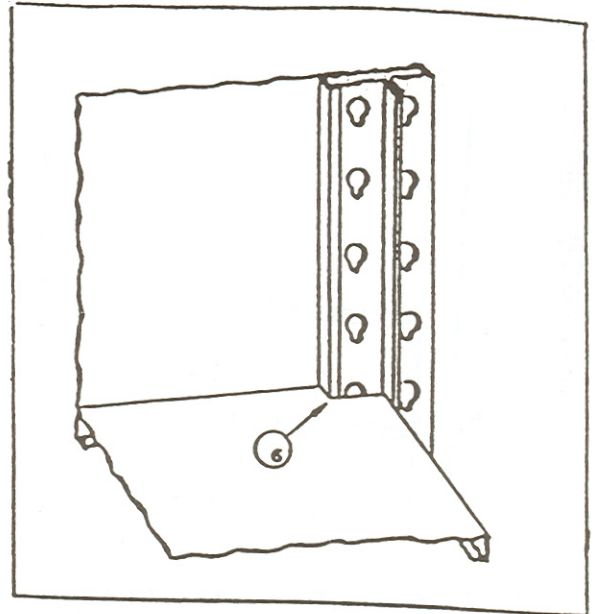
3A OPTIONAL BACK MUST BE INSTALLED BEFORE THE SHELVES. HOLD BACK WITH NOTCHES AT TOP, AND INSERT OFFSET ON ONE EDGE OF BACK BETWEEN POST AND SUPPORTS. THEN "BOW" THE BACK SLIGHTLY AND INSERT OFFSET ON THE OTHER EDGE OF BACK BETWEEN POST AND SUPPORTS. INSTALL BALANCE OF SHELVES.



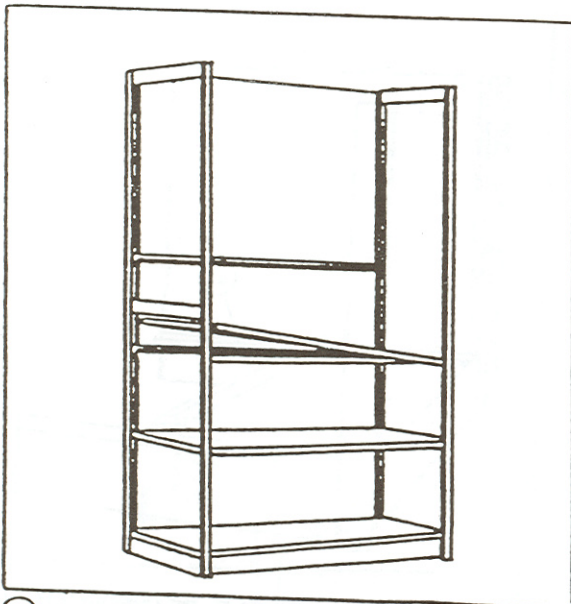
4 IF OPTIONAL SHELF REINFORCEMENTS ARE USED. FOR EXTRA HEAVY OR UNEVENLY LOADED SHELVES, ADJUSTABLE SHELF REINFORCEMENTS MAY BE POSITION AT ANY POINT UNDER THE SHELF.



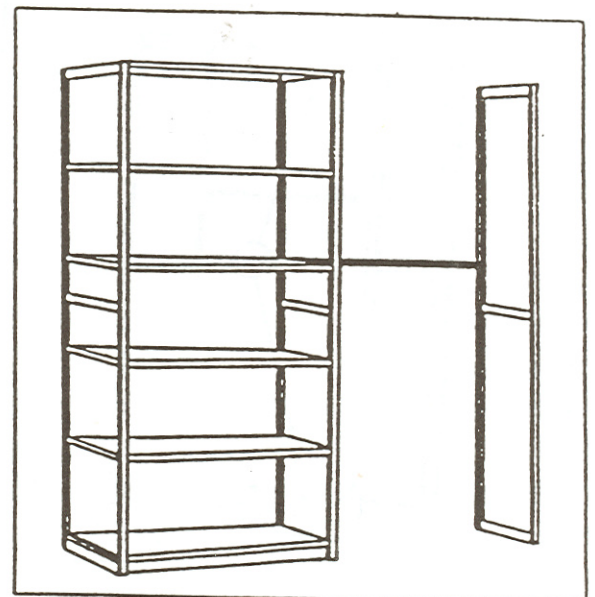
- ⑤ **SHELVES** - SHELVES SHOULD BE TILTED IN AS SHOWN BELOW. NOTE THAT END SHELF FLANGE IS PLACED INSIDE THE UPRIGHT SPACER, AND THAT THE OPTIONAL BASE FITS BETWEEN THE SHELF AND THE SHELF SUPPORT.



- ⑥ **SHELF LOCKS** IN BACK IN PLACE AROUND POST EDGE, IF ALL INSTRUCTIONS HAVE BEEN FOLLOWED CAREFULLY.

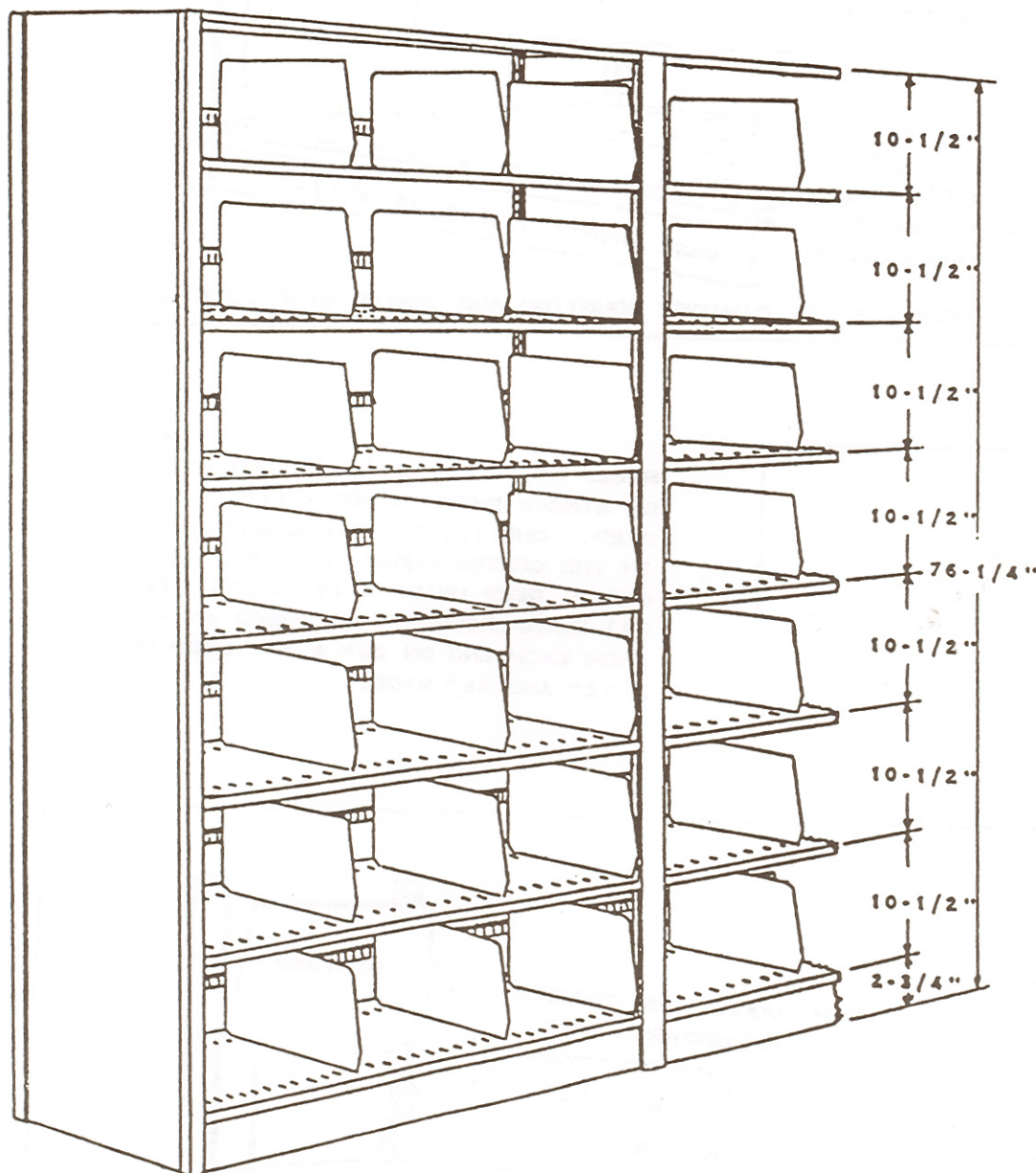


- ⑦ **AFTER COMPLETING STEP 5, FIT SHELF OVER BOTTOM SHELF SUPPORT. THEN ADD TWO MORE SUPPORTS AT THE NEXT LOCATION- PLACE ANOTHER SHELF AND CONTINUE UP THE SECTION. ALWAYS SEAT EACH SHELF SUPPORT AS IT IS INSTALLED, BY TAPPING EACH END WITH A HAMMER OR ANOTHER SHELF SUPPORT.**



- ⑧ **ADD EXTRA SECTIONS BY USING KEY-HOLE SLOTS ON COMMON "T" UPRIGHTS. FOLLOW SAME SEQUENCE OF ASSEMBLY AS DETAILED IN PREVIOUS ILLUSTRATIONS.**

NOTE- IF A PULL-OUT REFERENCE SHELF IS USED AT WAIST HIGH LEVEL BELOW A SHELF, TO MAINTAIN THE 9-3/4" CLEAR OPENING HEIGHT, THE BOTTOM SHELF CAN BE LOWERED 1 KEYHOLE SO THE REFERENCE SHELF OPENING WOULD BE ON 12" CENTERS. ON 76-1/4" AND 97-1/4" UNITS, SPECIAL SUPPORTS WITH MOUNTING EAR CUT DOWN IS USED, OR THE TOP SHELF CAN BE OMITTED AND THE LOST 1-1/2" MADE UP IN THIS OPENING. THE TOP FRONT SUPPORT IS ALSO OMITTED AND FILING MATERIAL PROJECTS SLIGHTLY ABOVE THE TOP OF THE UNIT.



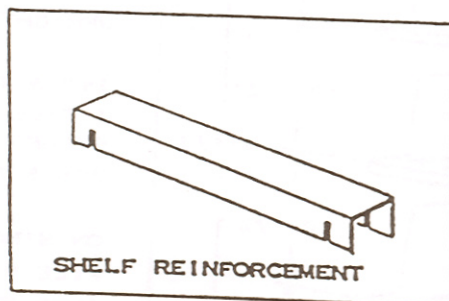
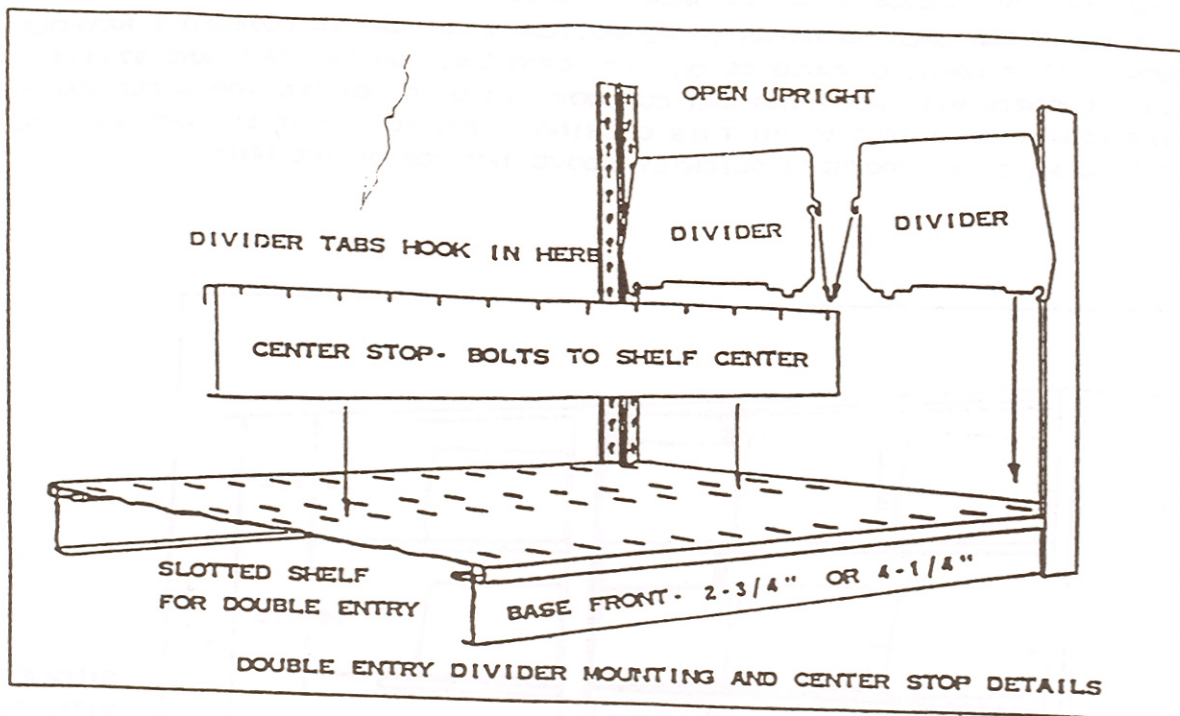
SINGLE ENTRY SHELF WITH "L" CLOSED UPRIGHTS AND "I" OPEN INTERMEDIATE UPRIGHTS.

36" & 42" UNITS 4 FILE DIVIDERS SHELF. 48" UNIT USE 5 PER SHELF.

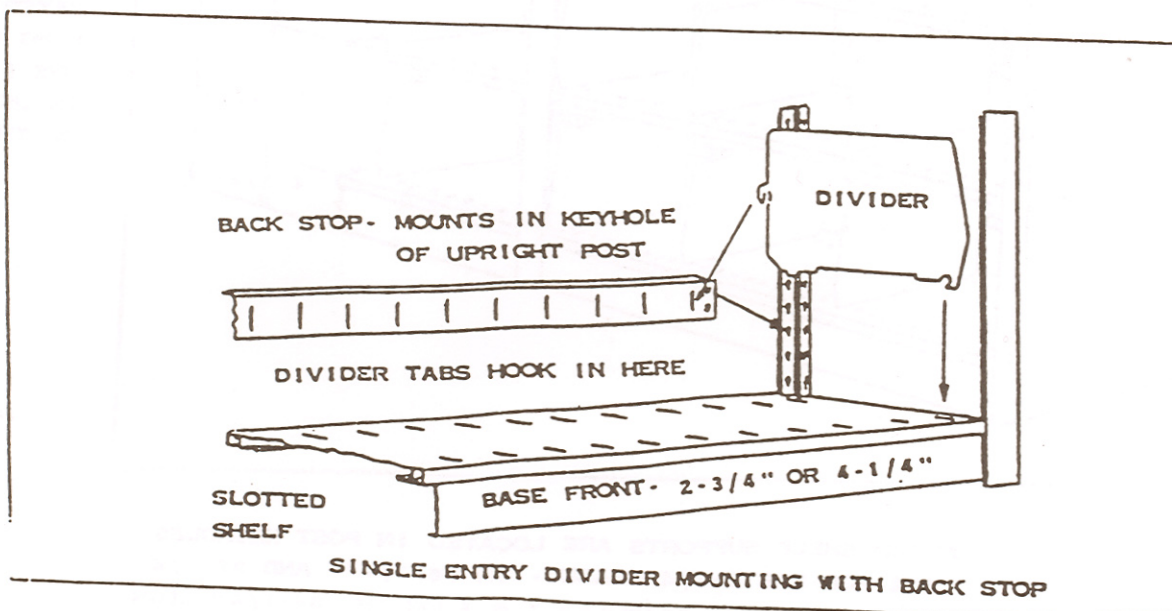
ON SINGLE ENTRY, FILE DIVIDERS GO INTO THE BACK STOP.

TO PREVENT FILED MATERIALS FROM SLIPPING BEHIND THE ONE (1) FILE DIVIDER IS USED AT EACH OF THE SHELF.

BOTTOM SHELF SUPPORTS ARE LOCATED IN POST KEYHOLES 1 & 2 FOR THE 2-3/4" BASE - ON 76-1/4" AND 97-1/4" HIGH UNITS. USE KEYHOLES 2 & 3 ON THE 88-1/4" HIGH UNITS WITH 4-3/4" BASE.



SHELF REINFORCEMENTS ARE NOT REQUIRED ON SINGLE ENTRY UNITS - 12" & 15" DEEP. ONE (1) REINFORCEMENT IS USED IN THE CENTER UNDER THE SHELF ON 24" & 30" DEEP UNITS X 36" WIDE. TWO (2) REINFORCEMENTS ARE USED 4" - 6" FROM EACH END ON 24" & 30" DEEP UNITS X 42" AND 48" WIDE.



NOTE - A FILE DIVIDER USED AT POST EDGE PROVIDES SHELF END FLUSH WITH POST.

REFERENCE SHELF INSTALLATION INSTRUCTIONS

1. Place 2 shelf supports (with 2 holes in each channel bottom) at desired height. *NOTE: 36" SHELF SUPPORTS ARE FACTORY PUNCHED WITH BRACKET MOUNTING HOLES. 42" and 48" MUST BE FIELD DRILLED*
2. A 10"x30" reference shelf is used on 9" deep units and 10" deep units-all widths. Shelf projects 1 3/8" beyond front of 9" deep unit. 12"x30" reference shelf is used on all depth and width units 12" and deeper. Reference shelf has slides pre-assembled.
3. Extend plated slides out the back of shelf and bolt a Z shaped mounting bracket thru mating round holes in slide and bracket with nut on bottom. Use 2-8-32 X 3/8 bolts and nuts-with lockwasher on each slide. Flange with longer slot each end should face up and out from end of shelf. L brackets are double punched to eliminate rights and lefts. SEE DRAWING FOR CORRECT BOLTING FOR YOUR UNIT DEPTH. Front 2 holes in plated slide are located by moving slide access hole over mounting hole.
4. Hold reference shelf with slides retracted in it under the shelf supports so that the mounting bracket slots are lined up just beneath the 4 holes in the shelf supports and bolt with 4-8-32 X3/8 bolts and 4 nuts with lockwashers-nuts on bottom. Front of mounting bracket should be even with the front face of the shelf support.
5. Place fixed standard shelf over shelf supports. When fully closed, reference shelf should be flush with front of fixed shelf above it, except in 10" deep units shelf projects 3/8" and in 9" deep shelf projects 1 3/8". If reference shelf does not retract to proper location, you have used the wrong holes in bolting the plated slides to the mounting brackets.

