## Table of Contents

# MAX/Lab®

## Quick Index

Upper Cabinet

Upper Cabinet Hanger Rail Assembly

Corner Column

Outer Shelf Assembly

Upper Wall Core

12" Inner Shelf Assembly

Inner Shelf Assembly

Upper Island Core

Reagent Shelf

Facing Inserts

Facing Inserts

Facing Inserts

Cantilever Counter Top

End Facings

Lower Wall Core

Lower Island Core

Floor Mounted Cabinet

End Facings

Cantilever Table

Suspended Cabinet

Full Height Cabinet

---

**Tools Required:**

3/8" Drive socket set, including the following: Extension (2" or 3"), Universal joint, Hex bits (4" long min.) - 3/16", 5/16".

Combination wrenches - 3/8", 3/16", 1/2", 9/16".

Phillips screwdrivers - (#2 and #3 tips)

Flat blade screwdriver

Measuring tape

Carpenter's level (4' min.)

Facing insert removal tool

Rubber mallet

Hammer

Knife

1/2" masonry drill bit

Chalk line

1/2" drill motor (Hammer drill preferable)

Torque wrench

**Optional Tools to speed installation:**

Drill motor or cordless drill including: set of drill bits (specifically #12 or 3/16"), 1/4" hex shank (2-1/2" long)

2 C-clamps (4" min. throat depth)

Masking tape

---

The following manual is intended as a procedural tool for the installation and assembly of Hamilton furniture. It also serves as an aid to designers and planners during layout and cost analysis, and to facility managers to carry out periodic modifications.

**Disclaimer and Warning:** Hamilton disclaims liability for installations (including rearrangements and additions) not in strict conformity with the instructions contained herein or with other written instruction. Hamilton further disclaims liability if its products are modified, altered, abused or misused.

**Preparation for Installation**

1. Select a staging area as close to the installation as possible. If more than one floor is involved, provide a staging area for each floor.

2. Check actual floor dimensions against the layout print for possible un-planned obstructions. These could include walls, columns, service entrances, or changes in floor elevation such as slopes or steps.

3. Mark the proposed layout on the floor with masking or a chalk line. Find and mark the high spot on the floor by sliding a four foot carpenter's level across the floor.

4. Start the installation of each run at a corner nearest the high point and adjust the leveler out 1-1/4" at that point. **Caution:** Support structures must be 1-1/4" minimum off the floor to provide adequate clearance for power cables and installation of supported structural table.

5. If possible, start the installation at the farthest point from the staging area to avoid hauling products through areas already installed.

6. Installation sequence:

   a. Assemble the panels and cores per to floor plan, making sure adequate support is provided to stabilize the configuration.

   If structural tables are to be installed, they should, whenever possible, be attached to individual panels before assembling panels into runs.

   b. Install the appropriate wiring, and plumbing.

   c. Attach the base covers and facing inserts.

   d. Install cantilevered work surfaces, upper and lower storage, and other accessories.

   e. Move primary tables and any other free-standing furniture into place.

7. To avoid soiling the fabric on fabric covered facing inserts, handling them with white cotton gloves is recommended.

8. When installation of the MAX Furniture System is complete, extra hardware and components may have accumulated. It is recommended that all "extra parts" be saved for future additions or rearrangements to the system.

# MAX/Lab ®

**Material Handling**

For material handling, a carpet-covered four-wheeled dolly  works best. When tipping island cores onto their 12" sides, it gives maximum support and is easily maneuverable. It can also be used to move cartoned stock.

The same dolly can also be adapted with either an "A" frame or removable side rails for moving narrow panels and tops.

**Flat Carpet-Covered Dolly**

This dolly is used to transport island cores laying on their 12" narrow side, which gives maximum support, and enables the material handler to access most doors. It can also be used to move cartoned materials.

**Flat Dolly with A-Frame**

This dolly is used when transporting narrow panels, counter tops, or long cartoned stock. It gives the balance needed to support these materials.

**Flat Dolly with Side Rails**

This dolly serves the same purpose as the A-framed dolly for panels and long stock but is more difficult to unload. It can also be used to move cartons of hardware.

# MAX/Lab®
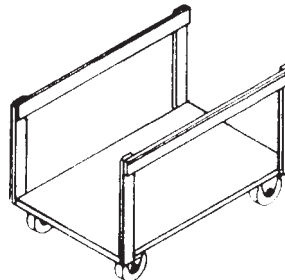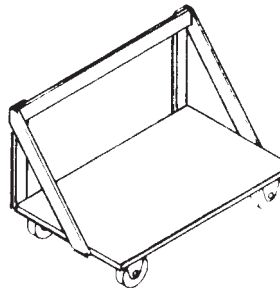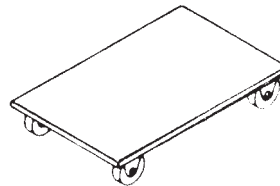
## Assembly Guidelines

### Support Restrictions

1. The length of straight, unsupported run of island panels should not exceed 8' between end supports, with a maximum of 3 island panels per run.

2. The maximum width of an island panel which provides support at only one end is 30". (See figure 1)

3. End supports are defined as any of the following items which add stability to a single or a run of island panels: structural table, 24" or 30" wide island panels, or support leg.
   (See Figures 2A, 2B, 2C)

4. Shelves, closed cabinets, and cantilevered work surfaces may only be attached to the supported side of an island panel or run of panels. (See dotted lines, Figure 2A)

5. Cantilevered work surfaces and/or tables of similar height may be bolted together at the front edge for improved rigidity.



**8'**

**90°**
**120°**
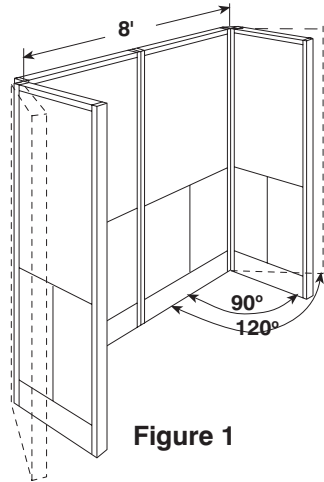
**SUPPORT AT ONE END
OF ISLAND PANEL RUN 30"**

**Figure 1**



**Closed Cabinet**

**8'**

**Shelf**

**UNSUPPORTED
SIDE**

**SUPPORTED
SIDE**

**Structural Table**

**Cantilever Work
Surface**

**Structural Table**

**Figure 2A**



**8'**

**24 OR 30"**

**90°**
**120°**

**ISLAND PANEL
120° MAX. ANGLE**

**Figure 2B**



**8'**

**SUPPORT LEG
USED AT ONE END**
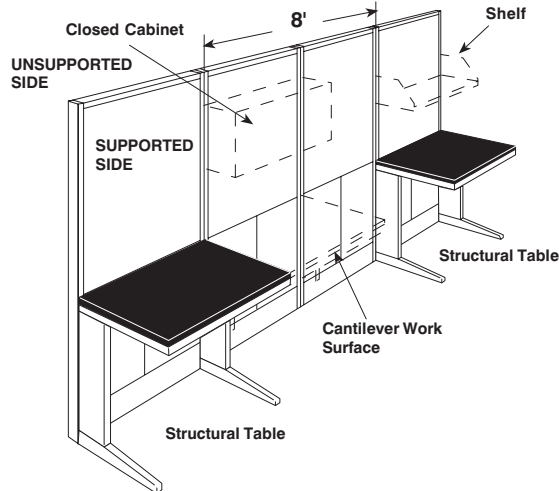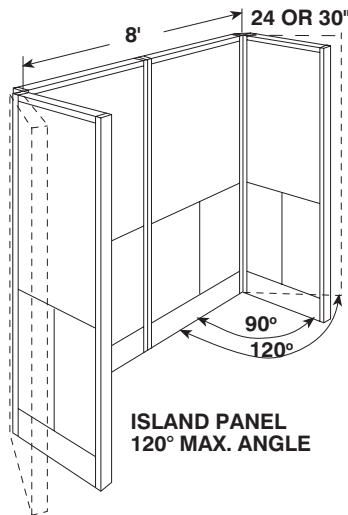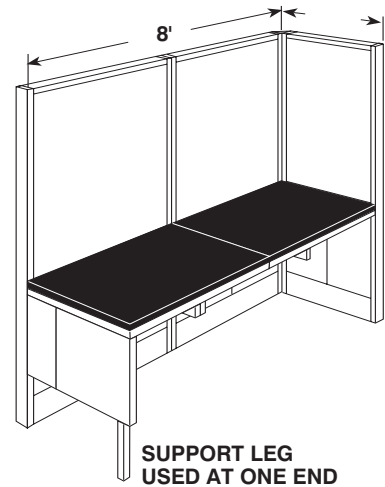
**Figure 2C**

# Assembly Guidelines

### Support Restrictions

6. A single cantilevered work surface attached to an island panel must be supported as shown in Figure 3A.

   When two cantilevered work surfaces are next to each other but at different heights, the higher of the two work surfaces must be supported at that juncture. (See Figure 3B)

9. Panel height is restricted to 66" when freestanding panel, or a run of them, is supported on only one side. No height restrictions apply when the run or panel is supported on front and backsides. (See Figure 4A)

   No height restrictions apply, either, when the sum of the depth of the end supports is 96" or greater. (See Figure 4B)



**SUPPORT AT BOTH ENDS**

**Figure 3A**

**SUPPORT FOR HIGHER TABLE**

**Figure 3B**



66"

85"

**Figure 4A**



85"

24"

72"

24" + 72" = 96"

72"

85"

24"

**Figure 4B**

# MAX/Lab®
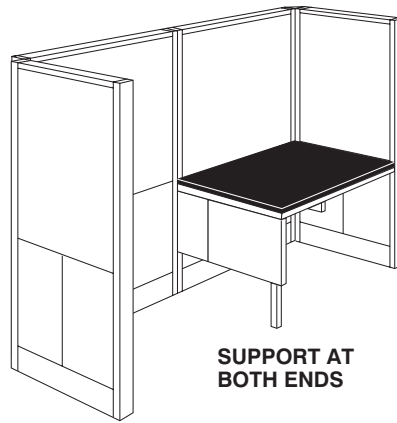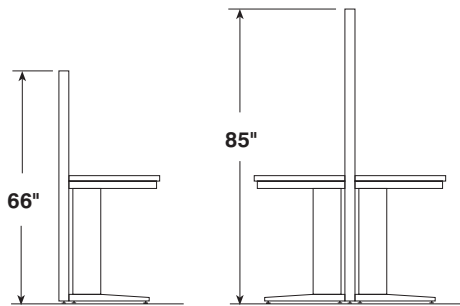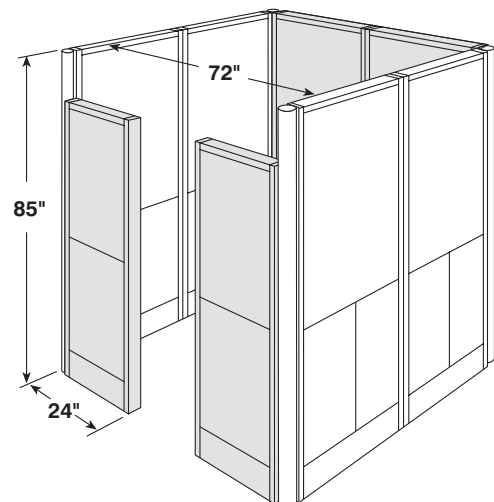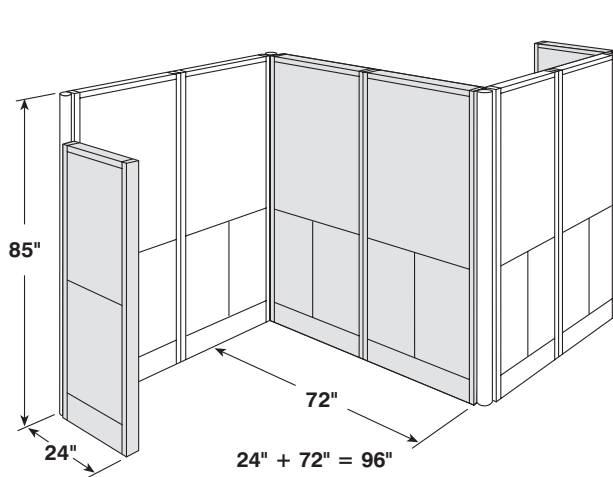
## Assembly Guidelines

### Miscellaneous Restrictions

10. Adjustable support legs **cannot** be attached to corner tables.

11. Primary tables cannot be converted to accept upper island panels.

12. Table-clamp mounted articulating monitor platform and document holder may be attached only to the side of a table. They cannot be attached to a work surface when an island panel or cantilevered support leg is used.

13. Take ceiling height into consideration when using corner post as a direct power entry source. (Power pole height is 6 feet). Add lengths of corner post and power pole together for maximum height available.

14. Front corner supports are used to help support cantilevered work surfaces and to stabilize island panels used at the end of a run. They can only be used when the work surface is equal to or deeper than the width of the island panel. See Figures 5 & 6.

15. The addition of a second 24 or 30" wide island panel to an existing end island panel is permissible only when the first island panel is attached to the work surface with a front corner support. See Figure 7.

**FRONT CORNER SUPPORT**
24"
**FRONT CORNER SUPPORT**
30"

**Figure 5**

**FRONT CORNER SUPPORT**

**Figure 6**

24" | 24" or 30"
24" or 30" | 24" or 30"
24"
30"
**FRONT CORNER SUPPORT**
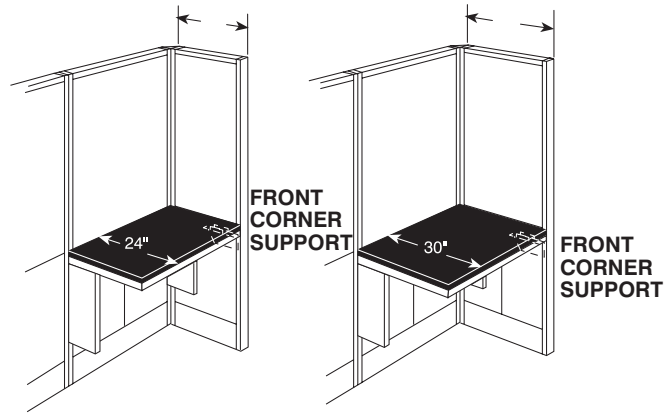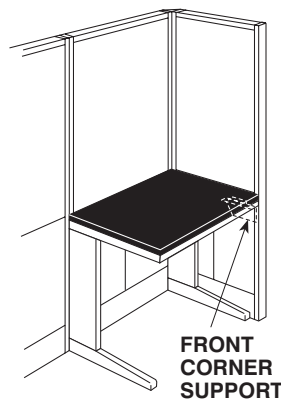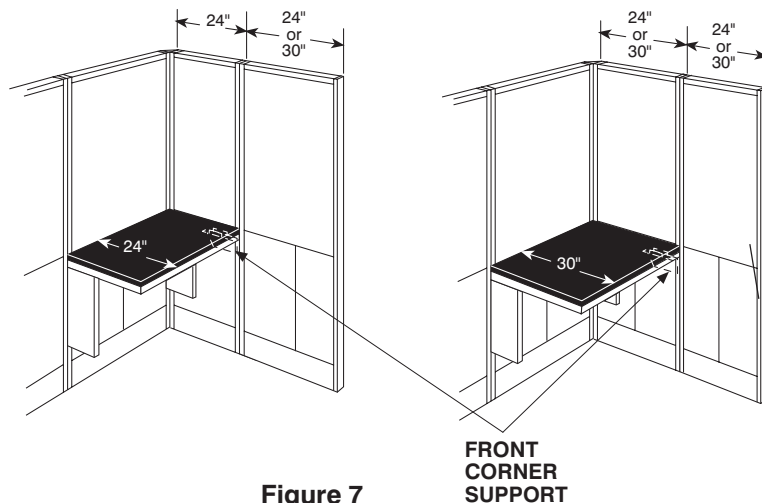
**Figure 7**

# Receiving Procedures

### Receiving and Identifying Hamilton Product

Receiving your order involves using proper receiving procedures to ensure that you have accepted the correct quantity and that the product received has been properly identified. Failure to follow these procedures could be costly for you.

To assist in receiving uncrated product, each item is tagged with a colored, numbered tag. Different colors are used in the event more than one order is included in the truckload. The check sheet that accompanies each shipment is to be used in checking off each numbered tag as the product is unloaded.

Crated or cartoned shipments can be accounted for by counting the containers and comparing that number with the quantities shown on the carrier's freight bill or delivery receipt.

The packing list check-off sheet that accompanies all shipments will help you to identify the actual product involved in the shipment.

### Checking Uncrated Shipments

1.  A check sheet will be furnished for check-off purposes during unloading. (See Figure 1).

    **NOTE:** Using the check sheet instead of the packing list will speed up the unloading process .

2.  The check sheet will state the number of tags used, color of tag, and any number omitted in the number sequence used.

3.  These colored, numbered tags (Figure 2) are attached to each unit and cross-referenced to the packing list included with each shipment.

4.  This checklist is to be used in accepting the equipment as it is being unloaded from the trailer. Any omitted numbers can easily be identified by cross-checking with the packing list check-off sheet (Figure 3). Shortages or damages must be noted on the driver's copy of the delivery receipt or truck bill of lading.

# MAX/Lab ®

## Receiving Procedures

5C-024-2

**CHECK SHEET FOR UNLOADING OF FURNITURE VANS**

_____     _____
Order Number                                                                                          Date

_____     _____
                        Trailer Number            Number of Pieces          Tag Color                    Carrier

Tag numbers used are No. _____ thru _____ inclusive.

Tag numbers _____ were voided.

Please check **carefully** the tag numbers as the furniture and/or equipment is unloaded from this van. Upon completion. if there are any discrepancies, please immediately call 920.657.1970. Indicate date of shipment,the name of the carrier, trailer number, tag color, and the numbers of missing tags.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 41 | 81 | 121 | 161 | 201 | 241 | 281 | 321 | 361 | 401 | 441 | 481 |
| 2 | 42 | 82 | 122 | 162 | 202 | 242 | 282 | 322 | 362 | 402 | 442 | 482 |
| 3 | 43 | 83 | 123 | 163 | 203 | 243 | 283 | 323 | 363 | 403 | 443 | 483 |
| 4 | 44 | 84 | 124 | 164 | 204 | 244 | 284 | 324 | 364 | 404 | 444 | 484 |
| 5 | 45 | 85 | 125 | 165 | 205 | 245 | 285 | 325 | 365 | 405 | 445 | 485 |
| 6 | 46 | 86 | 126 | 166 | 206 | 246 | 286 | 326 | 366 | 406 | 446 | 486 |
| 7 | 47 | 87 | 127 | 167 | 207 | 247 | 287 | 327 | 367 | 407 | 447 | 487 |
| 8 | 48 | 88 | 128 | 168 | 208 | 248 | 288 | 328 | 368 | 408 | 448 | 488 |
| 9 | 49 | 89 | 129 | 169 | 209 | 249 | 289 | 329 | 369 | 409 | 449 | 489 |
| 10 | 50 | 90 | 130 | 170 | 210 | 250 | 290 | 330 | 370 | 410 | 450 | 490 |
| 11 | 51 | 91 | 131 | 171 | 211 | 251 | 291 | 331 | 371 | 411 | 451 | 491 |
| 12 | 52 | 92 | 132 | 172 | 212 | 252 | 292 | 332 | 372 | 412 | 452 | 492 |
| 13 | 53 | 93 | 133 | 173 | 213 | 253 | 293 | 333 | 373 | 413 | 453 | 493 |
| 14 | 54 | 94 | 134 | 174 | 214 | 254 | 294 | 334 | 374 | 414 | 454 | 494 |
| 15 | 55 | 95 | 135 | 175 | 215 | 255 | 295 | 335 | 375 | 415 | 455 | 495 |
| 16 | 56 | 96 | 136 | 176 | 216 | 256 | 296 | 336 | 376 | 416 | 456 | 496 |
| 17 | 57 | 97 | 137 | 177 | 217 | 257 | 297 | 337 | 377 | 417 | 457 | 497 |
| 18 | 58 | 98 | 138 | 178 | 218 | 258 | 298 | 338 | 378 | 418 | 458 | 498 |
| 19 | 59 | 99 | 139 | 179 | 219 | 259 | 299 | 339 | 379 | 419 | 459 | 499 |
| 20 | 60 | 100 | 140 | 180 | 220 | 260 | 300 | 340 | 380 | 420 | 460 | 500 |
| 21 | 61 | 101 | 141 | 181 | 221 | 261 | 301 | 341 | 381 | 421 | 461 | 501 |
| 22 | 62 | 102 | 142 | 182 | 222 | 262 | 302 | 342 | 382 | 422 | 462 | 502 |
| 23 | 63 | 103 | 143 | 183 | 223 | 263 | 303 | 343 | 383 | 423 | 463 | 503 |
| 24 | 64 | 104 | 144 | 184 | 224 | 264 | 304 | 344 | 384 | 424 | 464 | 504 |
| 25 | 65 | 105 | 145 | 185 | 225 | 265 | 305 | 345 | 385 | 425 | 465 | 505 |
| 26 | 66 | 106 | 146 | 186 | 226 | 266 | 306 | 346 | 386 | 426 | 466 | 506 |
| 27 | 67 | 107 | 147 | 187 | 227 | 267 | 307 | 347 | 387 | 427 | 467 | 507 |
| 28 | 68 | 108 | 148 | 188 | 228 | 268 | 308 | 348 | 388 | 428 | 468 | 508 |
| 29 | 69 | 109 | 149 | 189 | 229 | 269 | 309 | 349 | 389 | 429 | 469 | 509 |
| 30 | 70 | 110 | 150 | 190 | 230 | 270 | 310 | 350 | 390 | 430 | 470 | 510 |
| 31 | 71 | 111 | 151 | 191 | 231 | 271 | 311 | 351 | 391 | 431 | 471 | 511 |
| 32 | 72 | 112 | 152 | 192 | 232 | 272 | 312 | 352 | 392 | 432 | 472 | 512 |
| 33 | 73 | 113 | 153 | 193 | 233 | 273 | 313 | 353 | 393 | 433 | 473 | 513 |
| 34 | 74 | 114 | 154 | 194 | 234 | 274 | 314 | 354 | 394 | 434 | 474 | 514 |
| 35 | 75 | 115 | 155 | 195 | 235 | 275 | 315 | 355 | 395 | 435 | 475 | 515 |
| 36 | 76 | 116 | 156 | 196 | 236 | 276 | 316 | 356 | 396 | 436 | 476 | 516 |
| 37 | 77 | 117 | 157 | 197 | 237 | 277 | 317 | 357 | 397 | 437 | 477 | 517 |
| 38 | 78 | 118 | 158 | 198 | 238 | 278 | 318 | 358 | 398 | 438 | 478 | 518 |
| 39 | 79 | 119 | 159 | 199 | 239 | 279 | 319 | 359 | 399 | 439 | 479 | 519 |
| 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 |

Checked by: _____

**Figure 1**

**Figure 2**

**236**
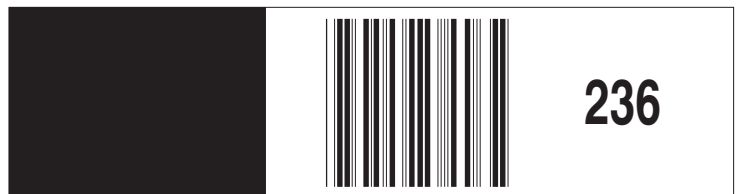
## Receiving Procedures

PACKING LIST CHECK OFF SHEET   FOR:  BUCKNELL UNIV
                                              ORDER:  156281                    PAGE  6

| TAG | | GROUP | ROOM | ITEM | QTY | PRODUCT | DESCRIPTION | SKID/CARTON |
|------|------|-------|------|------|-----|-------------|-------------|-------------|
| 080 | --- | C1--M | 125 | 51 | 1 | BU1562810092 | x136r232t WOOD BASE UNIT | |
| 081 | --- | C1--M | 123 | 44 | 1 | BU1562810092 | x136r232t WOOD BASE UNIT | |
| 082 | --- | C1--M | 125 | 52 | 1 | BU1562810081 | x944r304t WOOD BASE UNIT | |
| 083 | --- | C1--M | 123 | 42 | 1 | BU1562810081 | x944r304t WOOD BASE UNIT | |
| 084 | --- | C1--M | 125 | 51 | 1 | BU1562810049 | x136r232t WOOD BASE UNIT | |
| 085 | --- | C1--M | 125 | 51 | 1 | BU1562810095 | x137r232t WOOD BASE UNIT | |
| 086 | --- | C1--M | 125 | 49 | 1 | BU1562810090 | x947r304t WOOD BASE UNIT | |
| 087 | --- | C1--M | 123 | 44 | 1 | BU1562810095 | x947r304t WOOD BASE UNIT | |
| 088 | --- | C1--M | 125 | 51 | 1 | BU1562810095 | x136r232t WOOD BASE UNIT | |
| 089 | --- | C1--M | 125 | 44 | 1 | BU1562810049 | x136r232t WOOD BASE UNIT | |
| 090 | --- | C1--M | 121 | 52 | 1 | BU1562810095 | x944r304t WOOD BASE UNIT | |
| 091 | --- | C1--M | 125 | 42 | 1 | BU1562810095 | x944r304t WOOD BASE UNIT | |
| 092 | --- | C1--M | 121 | 17 | 1 | BU1562810049 | x136r232t WOOD BASE UNIT | |
| 093 | --- | C1--M | 115 | 51 | 1 | BU1562810092 | x137r232t WOOD BASE UNIT | |
| 094 | --- | C1--M | 113 | 49 | 1 | BU1562810095 | x947r304t WOOD BASE UNIT | |
| 095 | --- | C1--M | 123 | 44 | 1 | BU1562810095 | x947r304t WOOD BASE UNIT | |
| 096 | --- | C1--M | 33 | 51 | 1 | BU1562810029 | x136r232t WOOD BASE UNIT | |
| 097 | --- | C1--M | 106 | 8 | 1 | BU1562810063 | x136r232t WOOD BASE UNIT | |
| 098 | --- | C1--M | 121 | 14 | 1 | BU1562810053 | x944r304t WOOD BASE UNIT | |
| 099 | --- | C1--M | 121 | 42 | 1 | BU1562810091 | x944r732t WOOD BASE UNIT | |
| 100 | --- | C1--M | 115 | 51 | 1 | BU1562810049 | x136r832t WOOD BASE UNIT | |
| 101 | --- | C1--M | 125 | 51 | 1 | BU1562810095 | x137r232t WOOD BASE UNIT | |
| 102 | --- | C1--M | 121 | 8 | 1 | BU1562810090 | x947r304t WOOD BASE UNIT | |
| 103 | --- | C1--M | 123 | 14 | 1 | BU1562810036 | x947r432t WOOD BASE UNIT | |

**Figure 3 - Packing List Check-Off Sheet, Typical Example**

# MAX/Lab ®

## Receiving Procedures

### Receiving/Damage

1. AT TIME OF DELIVERY

   a. VERIFY COUNT. Make sure you are receiving as many cartons as are listed on the delivery receipt. If any shortage is discovered, note exactly how many cartons are short on the carrier's delivery receipt and have the driver note the shortage and sign both copies.

   b. CAREFULLY EXAMINE EACH CARTON FOR DAMAGE. If damage is visible, note it on the delivery receipt and have the driver clearly note that fact and sign both copies. If the carton looks as if the contents inside may be damaged, insist that it be opened at that time; both you and the driver should make joint inspection of the contents. Any damage discovered should be noted on the delivery receipt and on your copy. Be sure to retain your copy.

   c. IMMEDIATELY AFTER DELIVERY, INSPECT ALL CARTONS FOR CONCEALED DAMAGE. Even though the driver has already left, all cartons should be opened and the contents inspected for concealed damage.

2. WHEN DAMAGE IS DISCOVERED

   a. RETAIN DAMAGED ITEMS. Not only must the damaged items be held at the point where received, but the containers and all inner packing materials must also be held until an inspection is made by a carrier inspector.

   b. CALL CARRIER TO REPORT DAMAGE AND REQUEST INSPECTION. The call should be placed immediately upon discovery of the damage, but under no circumstances should it be put off longer than 15 days after delivery. Failure to report concealed damage within this 15-day period will almost certainly result in the carrier's denying your claim.

   c. CONFIRM CALL IN WRITING. Although it is not mandatory, for your own protection in establishing that the carrier was notified within the 15-day period, confirm all calls to the carrier in writing. Be sure to retain a copy of your letter.

   d. Any damage on UNCRATED shipments MUST be noted on the delivery receipts. The driver should initial your copy as well as the driver's copy. Inspections are made only in cases of extensive damage.

3. WHEN CARRIER MAKES INSPECTION OF DAMAGED ITEMS

   a. HOLD DAMAGED ITEMS IN RECEIVING AREA. Make certain the damaged items have not been moved from the receiving area. Allow the inspector to inspect the damaged items, cartons, inner packing materials, and freight bill. Be sure to retain you delivery receipt; it will be needed as a supporting document when the claim is filed.

   b. BEFORE SIGNING THE INSPECTION RE PORT, READ IT CAREFULLY. If you do not agree with the facts or the conclusions on the report, do not sign it. Unless repairs will be completely satisfactory, be sure the report specifies replacement; a new item can be ordered only if inspection report specifies "REPLACE."

4. AFTER INSPECTION HAS BEEN MADE

   a. CONTINUE TO RETAIN DAMAGED MERCHANDISE. Even though the inspection has been completed, damaged items cannot be used or disposed of without written permission from the carrier.

   b. DO NOT RETURN DAMAGED ITEMS TO SHIPPER. Return of such items should not be made without written authorization of the supplier.

   c. SECURE RECEIPT FROM CARRIER IF DAMAGED ITEMS ARE PICKED UP FOR SALVAGE. If you surrender damaged merchandise to a carrier for salvage because it is valueless to you, be sure to secure a receipt from the driver; retain that receipt.

## Receiving Procedures

### Unloading

Shipping rates provide for delivery to a dock, pier, platform, or area adjacent to the tailgate of the truck. The driver is to unload the vehicle unless the items are too large or too heavy for one person to handle. If so, the receiver is to provide the additional help.

All loads require help by the installer.

### Phone Calls

The bill of lading instructs the driver to call you 24 hours before delivery. All calls should be prepaid, not collect. If you receive a collect call, refuse it and advise the operator to inform the driver to read the bill of lading.

### Delivery Schedule

The carrier is required only to perform reasonable delivery. Early arrivals at the job site do not have to be unloaded until the scheduled date unless the installer is willing to accept the material. Late arrivals are not the responsibility of the carrier unless it is unreasonable (extended delay).

A driver is not required to deliver at the job site if conditions make it impractical to operate the carrier's vehicle there.

# MAX/Lab ®

## Attaching Island Core to Floor

**Tools Required:**

1/2" Drill motor (hammer drill preferable)

1/2" Masonry drill bit - 12" long min.

Socket set with 9/16" socket

9/16" Combination wrench

Hammer

Facing insert removal tool

**Hardware Included:**

Bag No. 831305, consisting of:
  - 4  -  Lock plates
  - 6  -  Nuts, 3/8-16
  - 2  -  HHCS, 3/8-16 x 3-1/2"
  - 4  -  HHCS, 3/8-16 x 4-1/2"
  - 12  -  PPHSMS, No. 10 x 3/4"
  - 6  -  Floor anchors, 1/2 x 2-3/4"
  - 2  -  Single filler blocks
  - 1  -  Double filler block
  - 4  -  HHCS, 3/8-16 x 2-1/2"

**Note: For Seismic approved island core installation only, install the anchors included with the Diagonal Brace Kit in lieu of the standard anchors, for anchoring the floor clamps. Seismic approval requires 2-7/8" min. cement embedment anchor.**

**Note: All floor anchors must be installed in order to achieve the maximum load ratings.**

1. Remove facing inserts from island core with removal tool. Place the inserts in an area protected from damage.

   **Note:** The facing inserts are not attached to the service core when shipped from the factory.

   **Note:** See page 23 for attaching adjoining island cores before securing floor clamps to floor.

2. Determine location of island core assemblies and snap chalk line for center line of cores.

3. Place first core in position, level it and attach floor clamp castings. Align "V" notch in castings with chalk line on floor. See Figure 1.

4. Using floor clamp as template, drill 1/2" dia. hole in floor through center hole. Hole must be at least 3-1/4" deep in floor (not including clamp casting). See Figure 2.

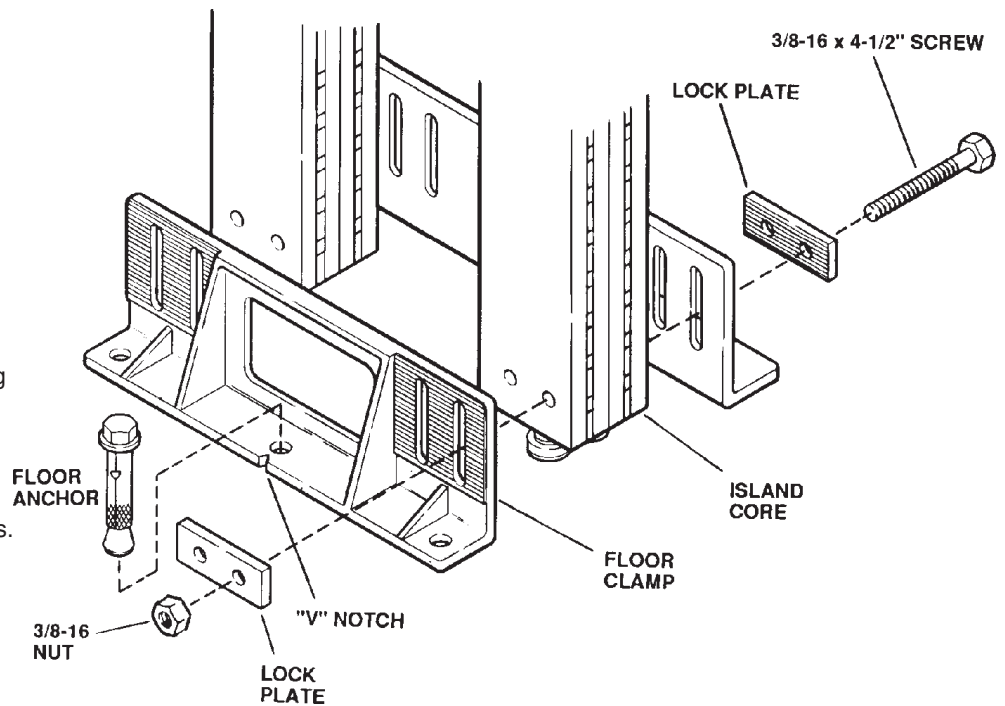5. Clean dust from floor and hole (blow dust from hole).



**Figure 1**

## Attaching Island Core to Floor *(continued)*

6. Remove tag from assembled anchor, insert into drilled hole and tap down until washer and bolt head are seated against casting. See Figure 3.

7. Repeat steps 4, 5 and 6 for center hole on opposite end of island core. Core is now pinned in position.

8. Repeat steps 4, 5 and 6 for remaining 4 holes.

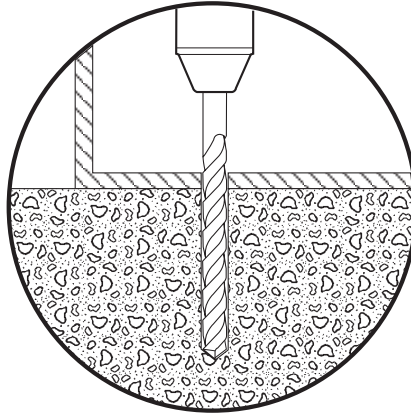   **Note:** If base molding is required, add base molding supports at this time. See page 26 for attaching base molding supports.

9. Tighten floor anchors with wrench to 65 ft. lbs. torque. (Part No. 12100, Hilti No. 45367). See Figure 4.

10. Repeat above procedures for additional island cores until all are fastened in place.

11. Attach the floor clamps to the core  with lock plates, 3/8-16 x 4-1/2" HHCS and 3/8-16 nuts.

    **Note:** 3/8-16 hardware changes when core attaches to corner post, corner column, or end cover panels.
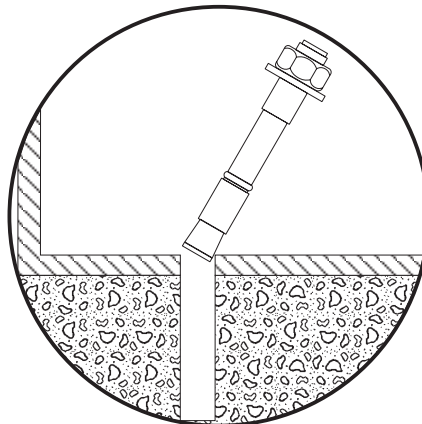
12. Rough in electrical and plumbing if required.

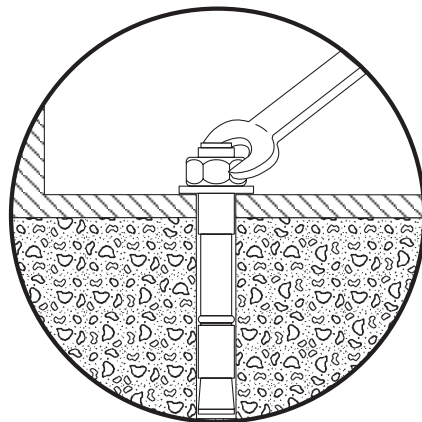13. Replace the facing inserts by pressing firmly over the dual-lock fasteners.

**Figure 2**

**Figure 3**

**Figure 4**

# MAX/Lab ®

## Attaching End Covers to Island Core

**Tools Required:**

9/16" Wrench or Socket

**Hardware Included:**

Bag No. 831318, consisting of:
- 4 - HHCS, 3/8-16 x 2-1/2", Gr. 5
- 4 - Nuts, 3/8-16
- 2 - Riser Plates
- 1 - Floor Channel

1. Fasten end of island core to floor clamp casting using 3/8-16 x 2-1/2" HHCS. Riser plate should be under the head of 3/8" screw and on the outside of the riser. See Figure 1. Refer to Floor Clamp Installation Instructions, page 16.

   Note: If base molding is required, add base molding floor channel at this time. See page 26 for Attaching Base Molding Supports.
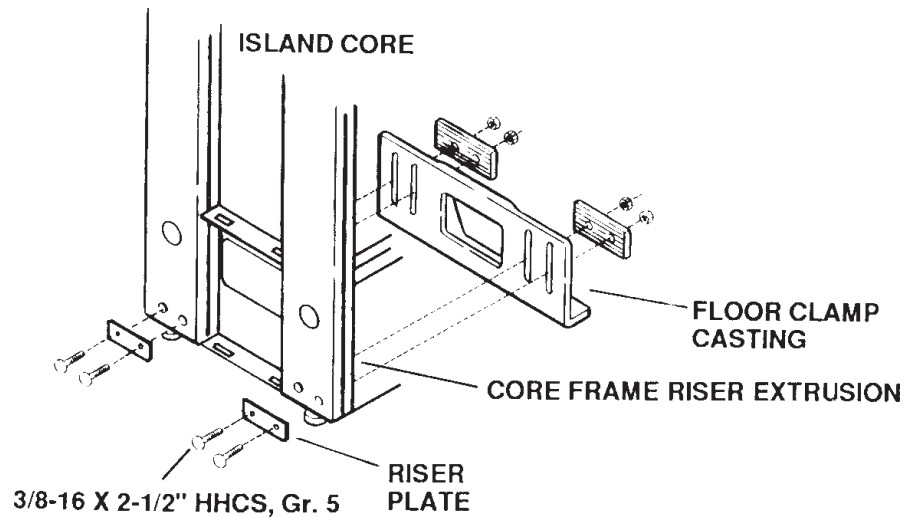
2. Attach base end facing by inserting tabs into slots on end of island core. Press down firmly. See Fig. 2.

3. To attach lower end facing, place "Dual-Lock" fasteners on channel on end of island core. Clean painted surface with solvent before applying "Dual-Lock" patches. Insert tabs of lower end facing into slots on end of island core and press top of facing to engage fasteners. See Figure 2.

4. If island core has reagent rack, place "Dual-Lock" fasteners on end support bracket of reagent rack. Clean painted surface with solvent before applying
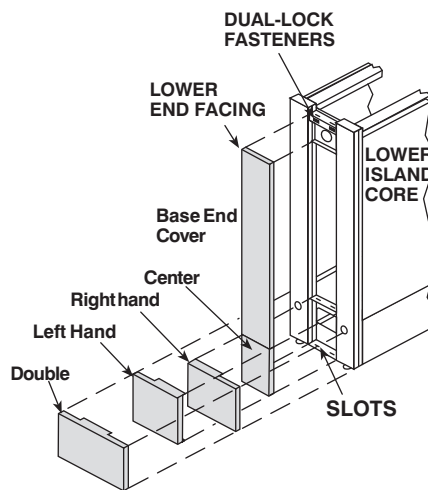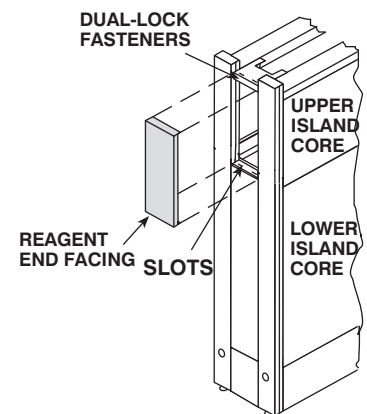


**Figure 1**



**Figure 2**



**Figure 3**

# Attaching Reagent Rack to Lower Island Core

**Tools Required:**

Flat Blade Screwdriver

Phillips Head Screwdriver (No. 2 and No. 3 tips)

5/16" Socket Hex Bit

Torque Wrench

Facing insert removal tool

**Hardware Included:**

Bag Assembly, consisting of:
  4 - Inner Jump Connectors
  4 - Outer Jump Connectors
  8 - 3/8" Washers
12 - 3/8-16 x 1-1/8" SHCS
16 - PPHSMS, No. 12 x 1/2"

**Refer to Figure 1**

1. Remove facing inserts from island core with removal tool. Place the inserts in an area protected from damage.

2. Remove riser caps by carefully prying up with a flat blade screwdriver. Save for later use.

3. Remove No. 10 x 3/4" PPHSMS that hold laminate top to lower island core and remove top.

4. Remove 3/8-16 x 1-1/8" SHCS from riser brackets and pull out the brackets from lower island core. Save for later use.

5. Remove filler blocks by lifting straight up and disengaging the tabs from the slots in the risers.
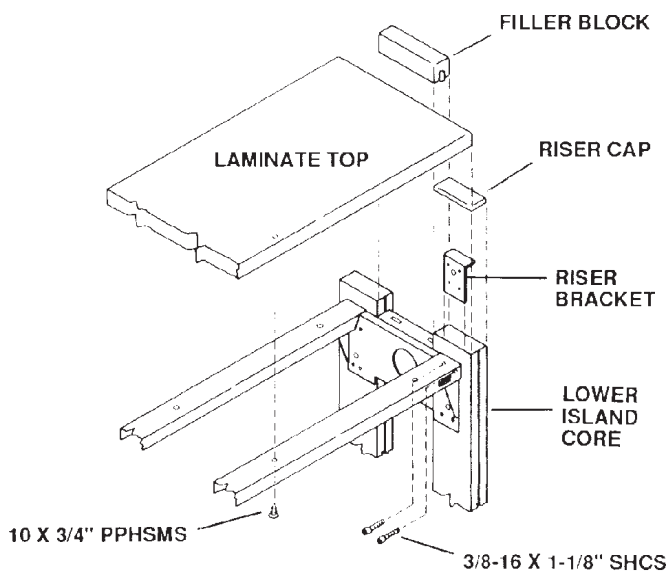
**Refer to Figure 2**

6. Insert the jump connector halves into the risers in the lower island core and loosely hold in place with the 3/8-16 x 1-1/8" SHCS.

7. Slip the reagent riser sections over the jump connectors.

**Refer to Figure 3**

8. Position the panel support bracket with the longer flange toward the inside of the core and loosely hold the assembly together with the 3/8-16 x 1-1/8" SHCS and 3/8" washers.

9. Slip the riser brackets into the top of the reagent risers, position the cross rails between the risers and attach using the No.12 x 1/2" PPHSMS. The top of the panel support bracket should be captured by the No.12 screws. The longer flange of the cross rails must face toward the inside of the core.

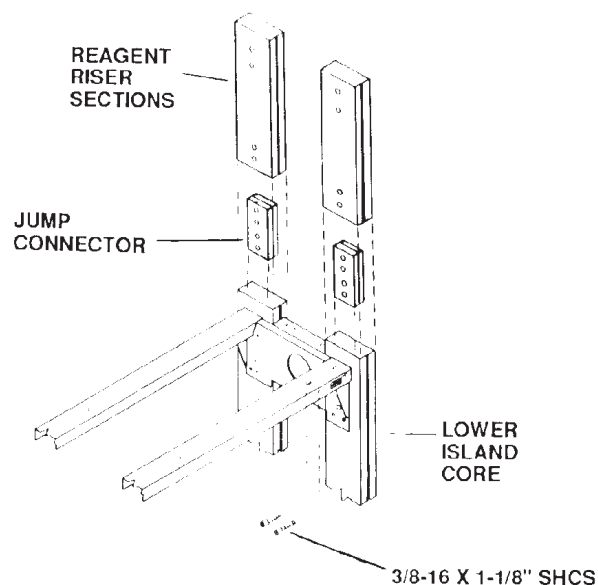10. Position the end support brackets and attach to the cross rails with No. 12 x 1/2" PPHSMS.



**Figure 1**



**Figure 2**

# MAX/Lab ®

## Attaching Reagent Rack to Lower Island Core *(continued)*

**Refer to Figure 3**

11. Torque all 3/8-16 SHCS in the jump connectors to 20 - 25 Ft. Lbs.

12. Attach the laminate top to the reagent rack with No. 10 x 3/4" PPHSMS.

13. Insert the filler blocks between the risers. The tabs will snap into the riser slots at the reagent rack level.

14. Replace the facing inserts by pressing firmly over the "Dual-Lock" fasteners.
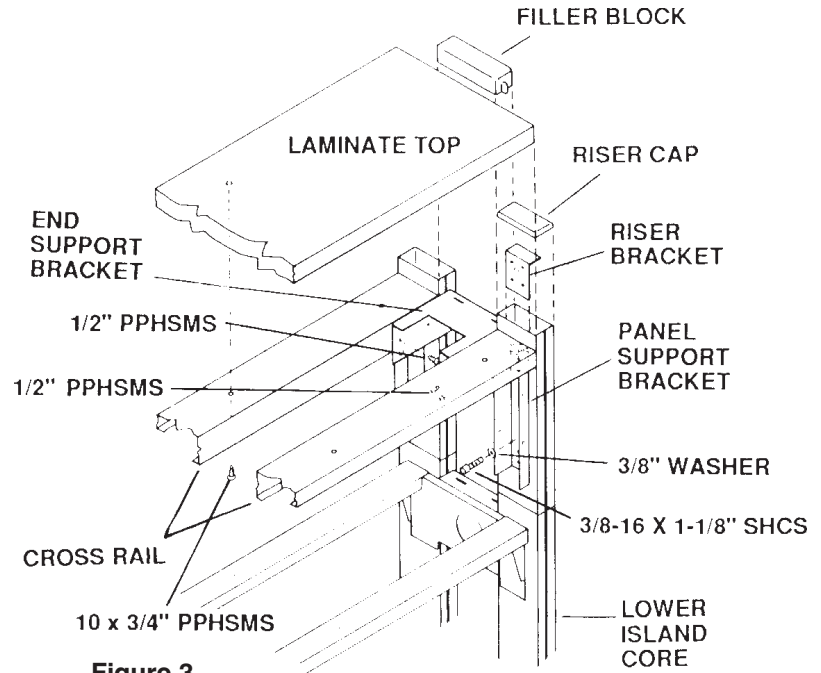
15. Attach the riser caps by pressing firmly into end of riser.

**If the reagent rack has electrical outlets, include the following steps:**

Hardware Includes:
Electrical Support Channel
Electrical Boxes
Support Plates
No. 10 x 5/8" PPHSMS
120V Receptacles
Duplex Covers

**Refer to Figure 4:**

13. Place two electrical support plates into the electrical support channel.

14. Place the electrical support channel behind the longer of two flanges of the support brackets. Match the holes of the support plate to the holes of support brackets. Secure the channel and support plates to the support bracket with No. 10 x 5/8" PPHSMS.

15. Place the remaining support plates into the electrical support channel. Secure the electrical box loosely to the support plate with No. 10 x 5/8" PPHSMS. Slide the box to the correct location of the matching hole cutout in facing insert. Tighten all screws.

16. Place facing insert over electrical boxes and press firmly over "Dual-Lock" fasteners.
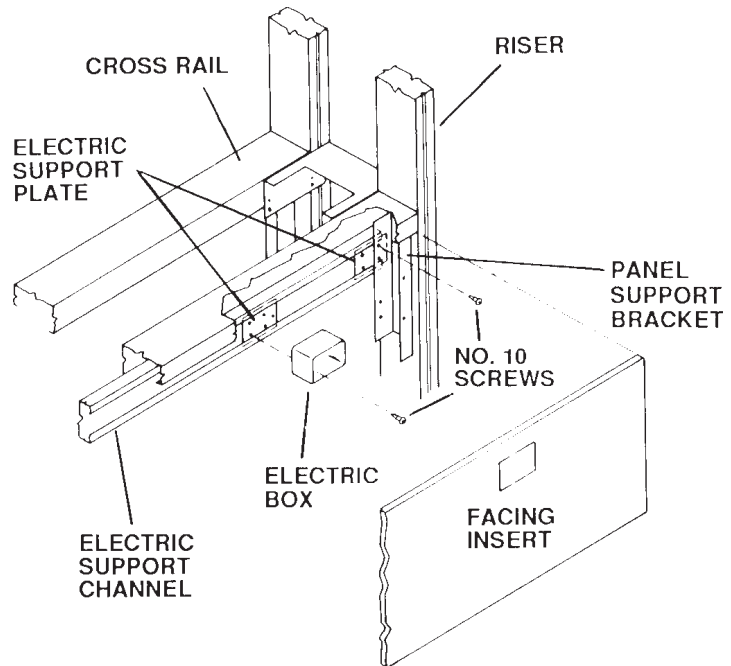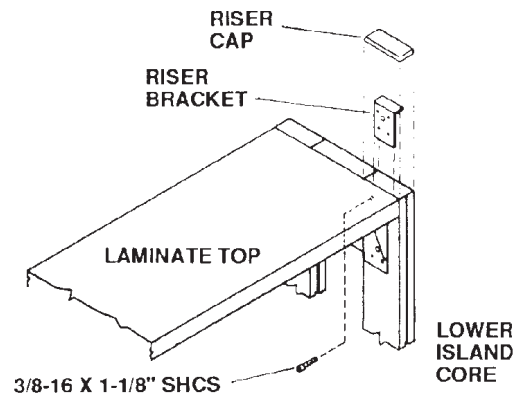
**Figure 3**

**Figure 4**

# Attaching Upper Island Core to Lower Island Core

**Tools Required:**

Flat Blade Screwdriver

Phillips Head Screwdriver
(No. 2 and No. 3 tips)

5/16" Socket Hex Bit

Torque Wrench

Facing insert removal tool

**Hardware Included:**

Bag Assembly, consisting of:
- 8 - No. 12 x 1/2" PPHSMS
- 4 - Inner Jump Connectors
- 4 - Outer Jump Connectors
- 8 - 3/8-16 x 1-5/8" SHCS
- 8 - 3/8-16 x 1-1/8" SHCS
- 8 - Socket Screw Caps
- 2 - 3/8-16 x 3" HHCS, Gr. 5
- 2 - 3/8-16 Nuts
- 4 - 3/8 Hole Plug
- 8 - 3/16 Hole Plug

**Refer to Figure 1**

1. Remove facing inserts from lower island core with removal tool. Place the inserts in an area protected from damage.

2. Remove riser caps by carefully prying up with a flat blade screwdriver. Save for later use.

3. Remove 3/8-16 x 1-1/8" SHCS from riser brackets and pull out the brackets from lower island core. Save for later use.

**Refer to Figure 2**

4. Insert the jump connector halves into the risers in the lower island core and loosely hold in place with the 3/8-16 x 1-1/8" SHCS.

5. Slip the upper riser sections over the jump connectors and loosely hold in place with the 3/8-16 x 5/8" SHCS.

6. Slip the riser brackets into the top of the upper risers, position the upper shelf between the risers and attach using the No. 12 x 1/2" PPHSMS.

7. Torque all 16 3/8-16 SHCS in the jump connectors to 20-25 Ft. Lbs.

8. Replace the facing inserts by pressing firmly over the "Dual-Lock" fasteners.

9. Insert the 3/16" hole plugs into the holes on the inside of the upper risers.

10. Insert the tabs on the socket screw caps into the hex on the 3/8 SHCS on the inside of the upper risers.

11. Attach riser caps by pressing firmly into top end of riser.
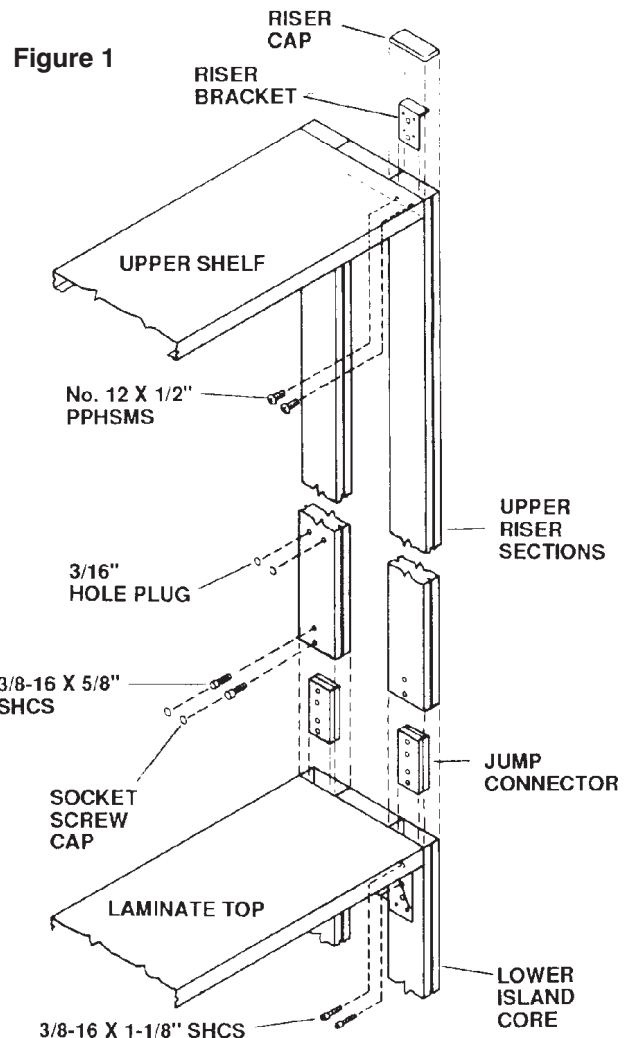


**Figure 1**



**Figure 2**

# MAX/Lab ®

## Attaching Upper Island Core with Reagent Rack to Lower Island Core

**Tools Required:**

Flat Blade Screwdriver

Phillips Head Screwdriver
(No. 2 and No. 3 tips)

5/16" Socket Hex Bit

Torque Wrench

Facing insert removal tool

**Hardware Included:**

Bag Assembly, consisting of:
  8  -  No. 12 x 1/2" PPHSMS
  4  -  Inner Jump Connectors
  4  -  Outer Jump Connectors
  8  -  3/8" Washers
 16  -  12 x 1/2" PPHSMS
 12  -  3/8-16 x 1-1/8" SHCS
  2  -  3/8-16 x 3" HHCS, Gr. 5
  2  -  3/8-16 Nuts
  4  -  3/8 Hole Plug

1. Refer to page 19 and 20 **Attaching Reagent Rack to Lower Island Core** Steps 1 through 6.

**Refer to Figure 1**

2. Slip the upper riser sections over the jump connectors, position the panel support bracket (with the longer flange toward the inside of the core) and loosely hold the assembly in place with the 3/8-16 x 1-1/8" SHCS and 3/8" washers.

3. Slip the riser brackets into the top of the upper risers, position the upper shelf between the risers and attach using the No. 12 x 1/2" PPHSMS.

4. Position the cross rails between the risers and attach using the No. 12 x 1/2" PPHSMS. The top of the panel support bracket should be captured by the No. 12 screws. (The longer flange of the cross rails must be toward the inside of the core.

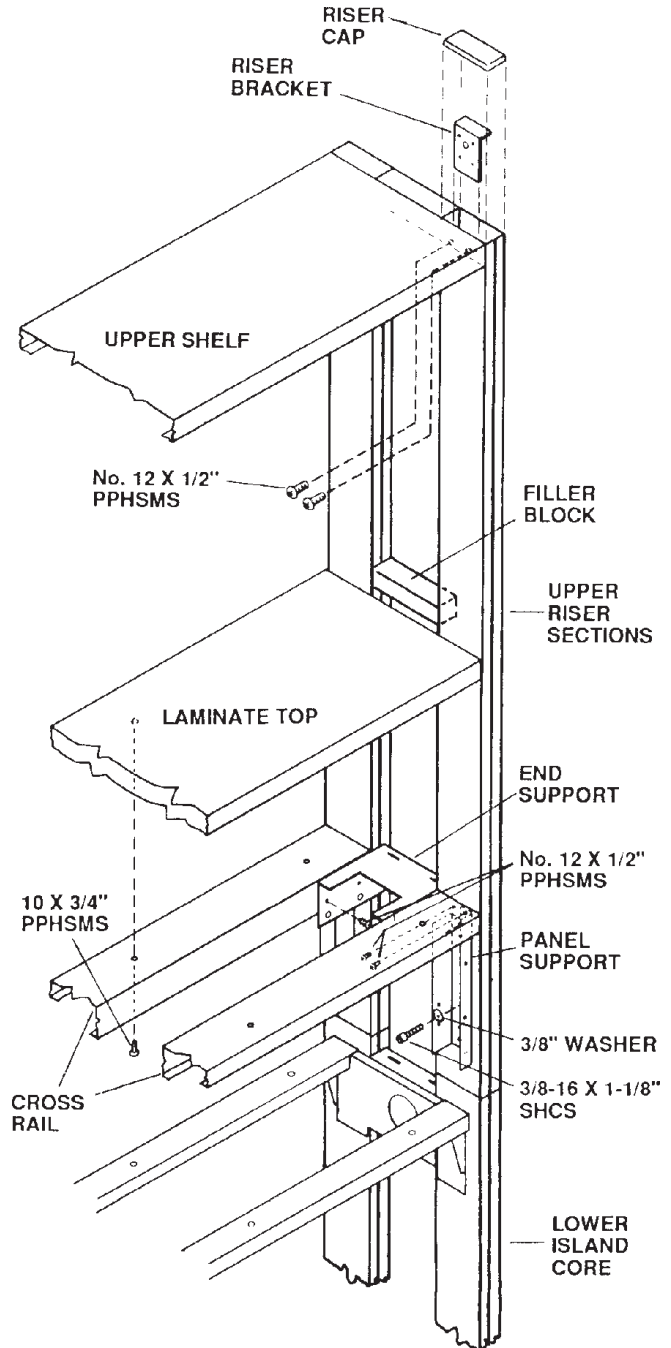5. Refer to page 19 and 20 **Attaching Reagent Rack to Lower Island Core** Steps 10 through 18.



**Figure 1**

# Attaching Adjoining Island Cores

**Tools Required:**

Socket set with 9/16" socket

9/16" Combination wrench

Facing insert removal tool

1. Place the cores side by side. Attach the cores at their base with 3/8-16 x 4-1/2" HHCS, Gr. 5, through the floor clamps, lock plates and extrusions. Also attach the extrusion at the midpoint with 3/8-16 x 3" HHCS, Gr. 5, and at the top with 3/8-16 x 3-1/2" HHCS, Gr. 5.

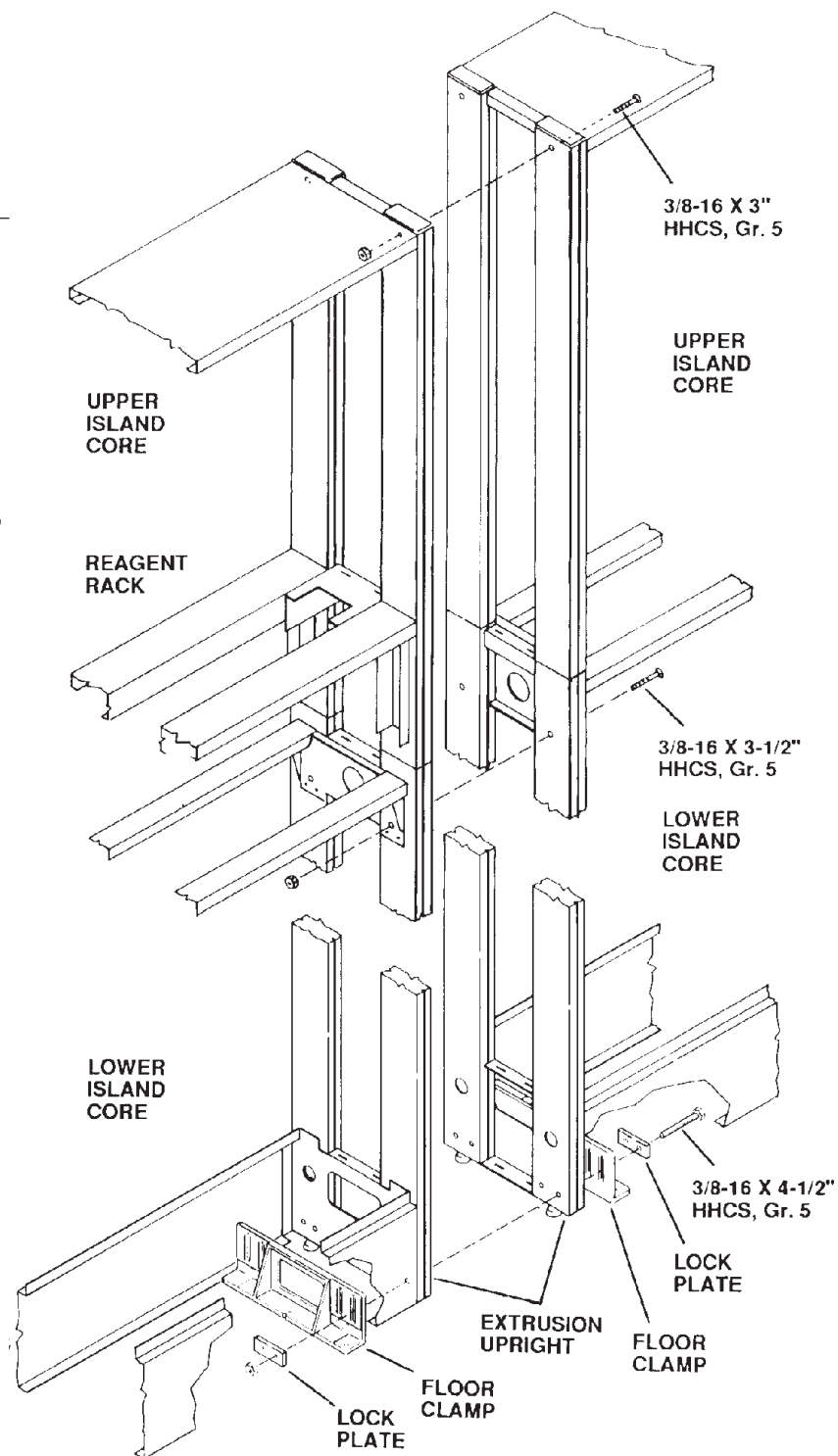**Note:** Refer to "*Attaching Island Core to Floor*", page 16 and 17.



**Figure 1**

# MAX/Lab ®

## Installation of Diagonal Braces on Seismic Island Cores
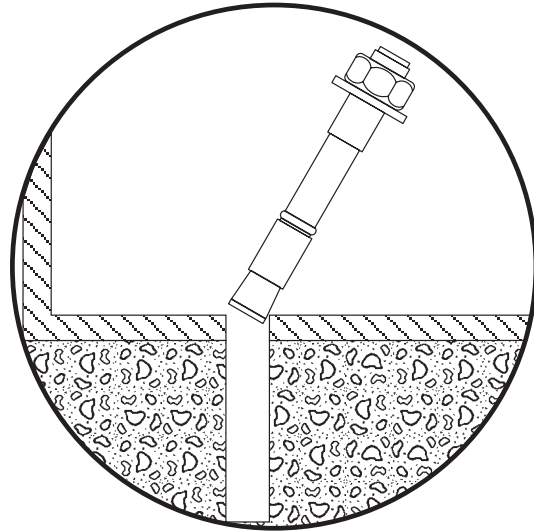
**Tools Required:**

9/16" Combination Wrench — 2 Required
1/2" Electric Drill
1/2" Masonry Drill Bit - 12" long min.
Hammer

1.  Seismic island cores must be anchored to the floor using 6 floor anchors 1/2" x 3-1/4". See page 16 and 17 "*Attaching Island Core to Floor*".

2.  Attach diagonal braces to island core uprights using 3/8" bolts. If core is a stand-alone unit, use washers on outside of uprights. (See Figure 1)



**3/8" Bolt**

**Seismic Brace**

**Island or Wall Core Upright**

**Rawl Bolt**
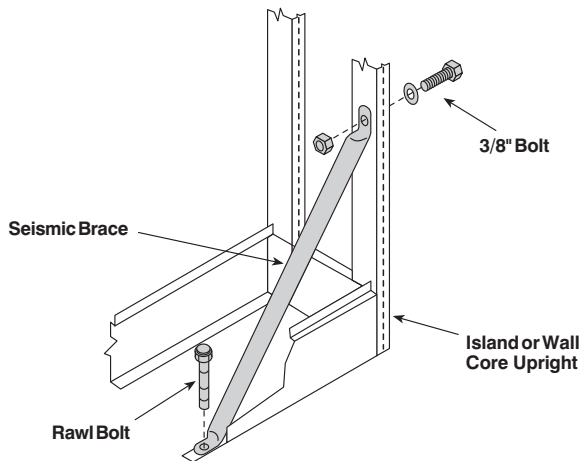
**FIGURE 1**
**Attaching Seismic Braces to Core Uprights.**

3.  If core is at the end of a run, position upper end of diagonal brace against upright adjacent to connecting core.

4.  Using hole in lower end of diagonal brace as a template, drill 1/2" hole in floor at least 3-1/4" deep.

5.  Clean dust from floor and hole (blow dust out of hole).

6.  Remove tag from assembled anchor, insert into drilled hole and tap down until washer and bolt head are seated against brace. (See Figure 2)



**FIGURE 2**
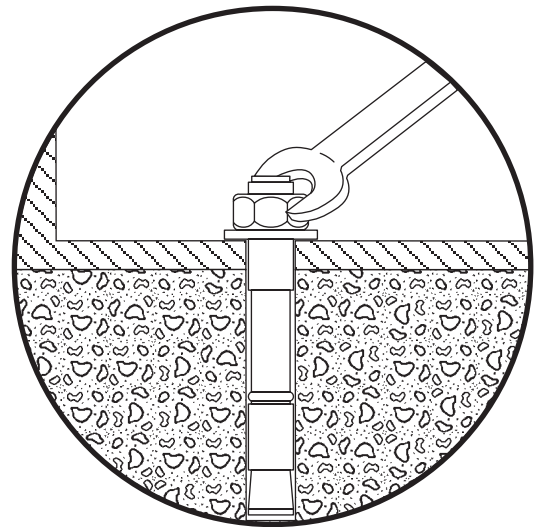


**FIGURE 3**

7.  Tighten floor anchors with wrench to 60 Ft. Lbs. torque. (Part No. 12085, Rawl No. 6931). (See Figure 3)

8.  Tighten all other 3/8" bolts.

# Installation of Utility Support to Lower Wall & Island Cores

**Tools Required:**

Phillips Screwdriver
3/8" Wrench

1. Attach bracket assembly to unistrut using the No. 10 screw and nut.

2. Position the slot on the bracket assembly over the flange on the lower cross rail of the island or wall core.

3. Slide the unistrut assembly until the upper hole in the unistrut aligns with one of the holes on the inside of the upper cross rail of the island or wall core.

4. Using a No. 10 sheet metal screw, attach the unistrut to the upper cross rail.

5. The utility lines can now be mounted to the unistrut assembly.

**Note:** The bracket assembly is slip-fitted over the flange and can be screwed tight in the field if desired by using a No. 8 or 10 self-drilling screw through the provided hole.

**Upper Cross Rail**  **No. 10 Screw**

**Utility Support Assembly**

**Lower Cross Rail**

**Lower Island or Wall Core**
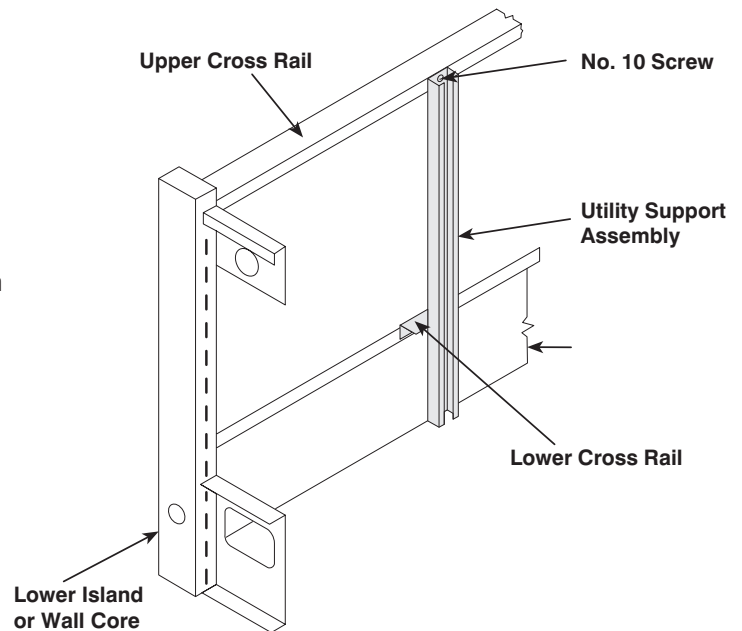
**Figure 1**

# INSTALLATION OF BASE MOLDING SUPPORT

## Tool Required:

9/16" Wrench

1/2" Wrench

1. Loosen anchor bolts on floor clamps.

   **Note:** On new installations, locate the floor clamp, drill the hole for the anchor, insert the anchor and then insert the floor angle and securely tighten the anchor bolts.

2. Slide the floor angle between floor and floor clamp. Adjust floor angle so vertical flange is flush with front surface of risers. Using proper anchors or adhesive, secure angle to floor.

3. Attach end floor channel to floor using adhesive or double-sided tape. Floor channel should be against floor clamp and centered between levelers.

4. Apply base molding.
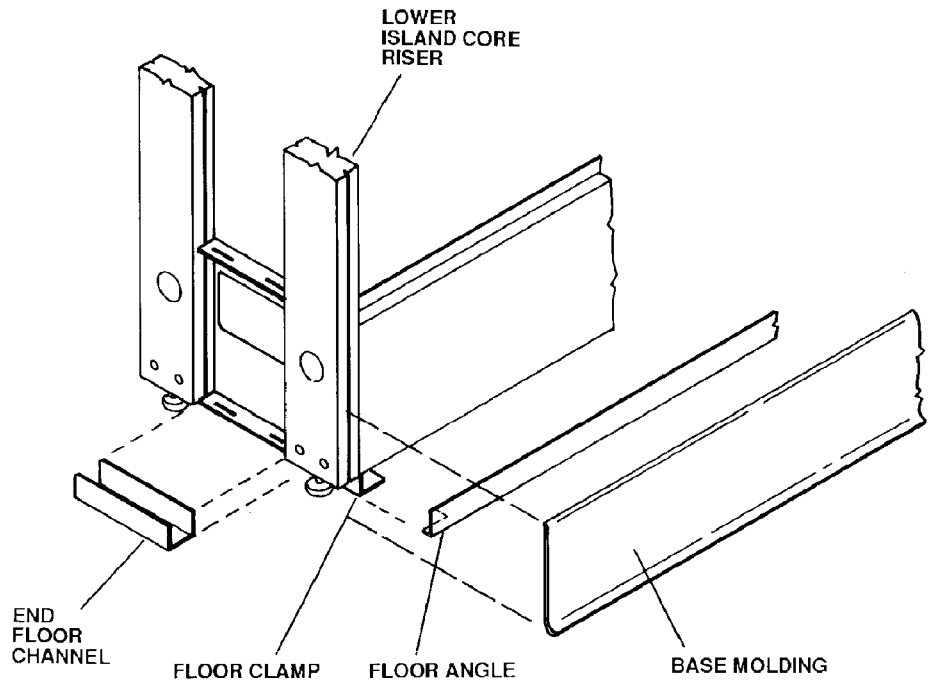
*Figure 1*

### Tools Required:

1/2" Drill motor (hammer drill preferred) with 1/2" bit.
Socket set with 9/16" socket.
9/16" Combination wrench.
Phillips screwdriver (No. 2 & 3 tips).
Hammer.
Facing insert removal tool.

### Hardware Included for 2'-5' Wall Cores:

Bag No. 831308 consisting of:
2 - Lock plates.
3 - 3/8-16 Nuts.
2 - 3/8-16 x 4-1/2" HHCS, Gr. 5.
1 - 3/8-16 x 3-1/2" HHCS, Gr. 5.
2 - 1/2 x 2-3/4" Rawl bolts.
5 - No. 10 x 3/4" PPHSMS.

### Hardware Included for 6' Wall Cores:

Bag No. 831309 consisting of:
2 - Lock plates.
3 - 3/8-16 Nuts.
2 - 3/8-16 x 4-1/2" HHCS, Gr. 5.
1 - 3/8-16 x 3-1/2" HHCS, Gr. 5.
3 - 1/2 x 2-3/4" Rawl bolts.
6 - No. 10 x 3/4" PPHSMS.
1 - Floor channel.

### Refer to Figure 1.

1. Remove facing inserts from wall core with removal tool. Protect inserts from damage. (Facing inserts are not attached when shipped from the factory.)

2. Level and plumb the cores to the floor and wall. See section "Attaching Adjoining Wall Cores" before securing clamps to floor.

3. Using proper anchors for wall construction, attach cross rail on core to wall.

**Note:** Only one floor anchor bolt required per floor clamp on wall cores.
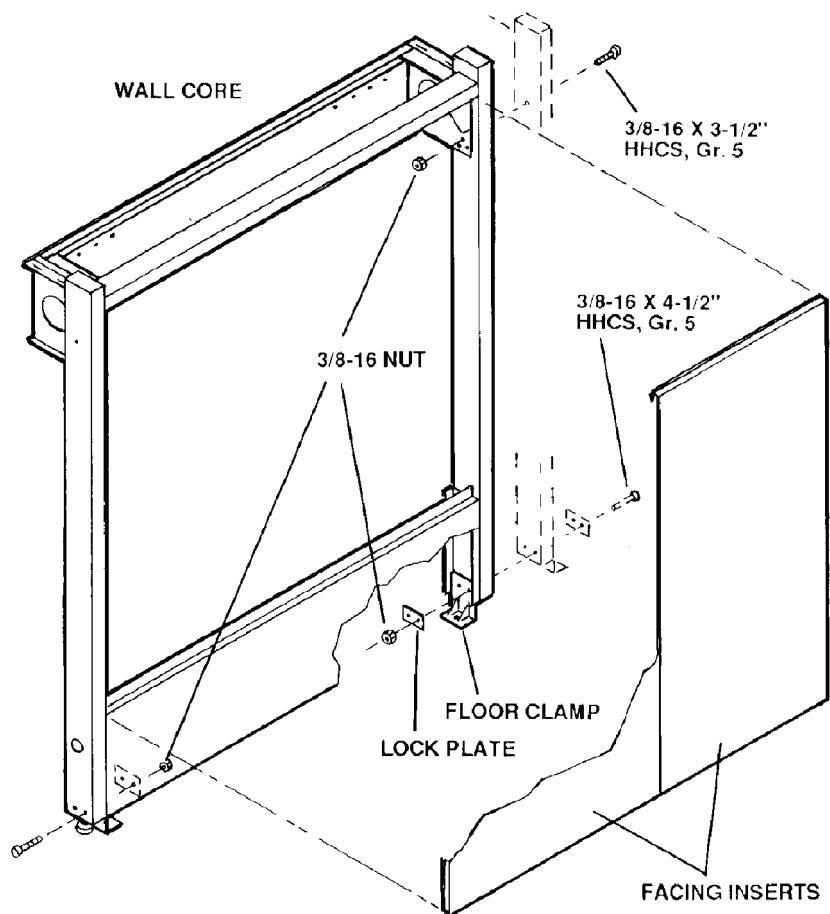


*Figure 1*

# ATTACHING WALL CORE TO WALL (Continued)

### Refer to Figure 2.

4. Refer to "Attaching Island Core to Floor" steps 4 thru 13 when attaching wall core to floor. Use only one Rawl bolt per floor clamp.
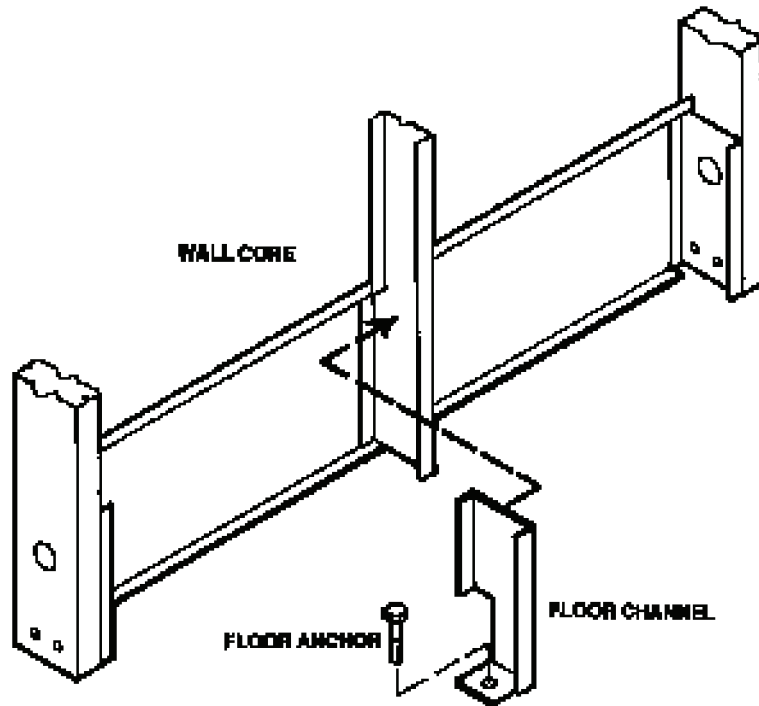
**Note:** To prevent shifting of the floor clamp when drilling the holes for the floor anchors, place a 5.5" block between the core risers and wall. Hold the riser against the block when drilling to capture the floor clamp.
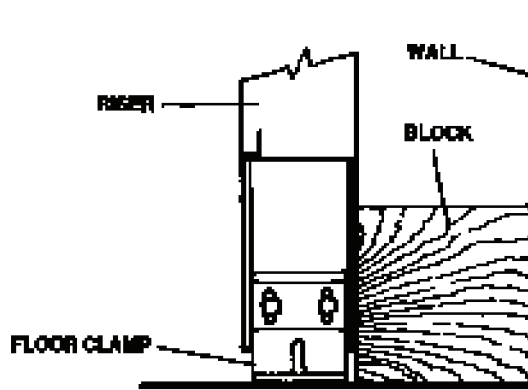
### Refer to Figure 3.

5. For 6' wide wall core, slip floor channel into bracket in center of lower cross rail. Anchor floor channel to floor with floor anchor.



*Figure 2*



*Figure 3*

# ATTACHING END COVERS TO WALL CORE

**Tools Required:**

9/16" Wrench or socket.

Phillips screwdriver (No. 2 & 3 tips).

**Hardware Included:**

Bag No. 831319 consisting of:

2 - Riser plates.

2 - 3/8-16 x 2-1/2" HHCS, Gr. 5.

2 - 3/8-16 Nut.

2 - No. 10 x 1/2" PPHSMS.

1. Attach lower wall spacer plate to wall core with No. 10 x 1/2" screws. See Figure 1.

2. Refer to page 18, "Attaching End Covers to Island Core".

**Note: Wall spacer plate is enclosed with end facings for wall core products.**

WALL CORE

LOWER WALL
SPACER PLATE
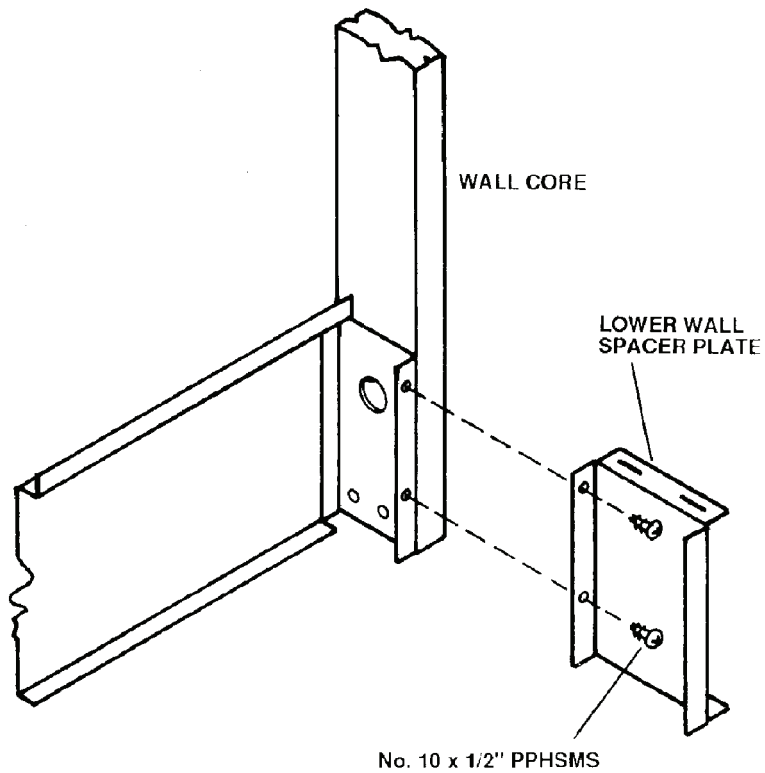
No. 10 x 1/2" PPHSMS

*Figure 1*

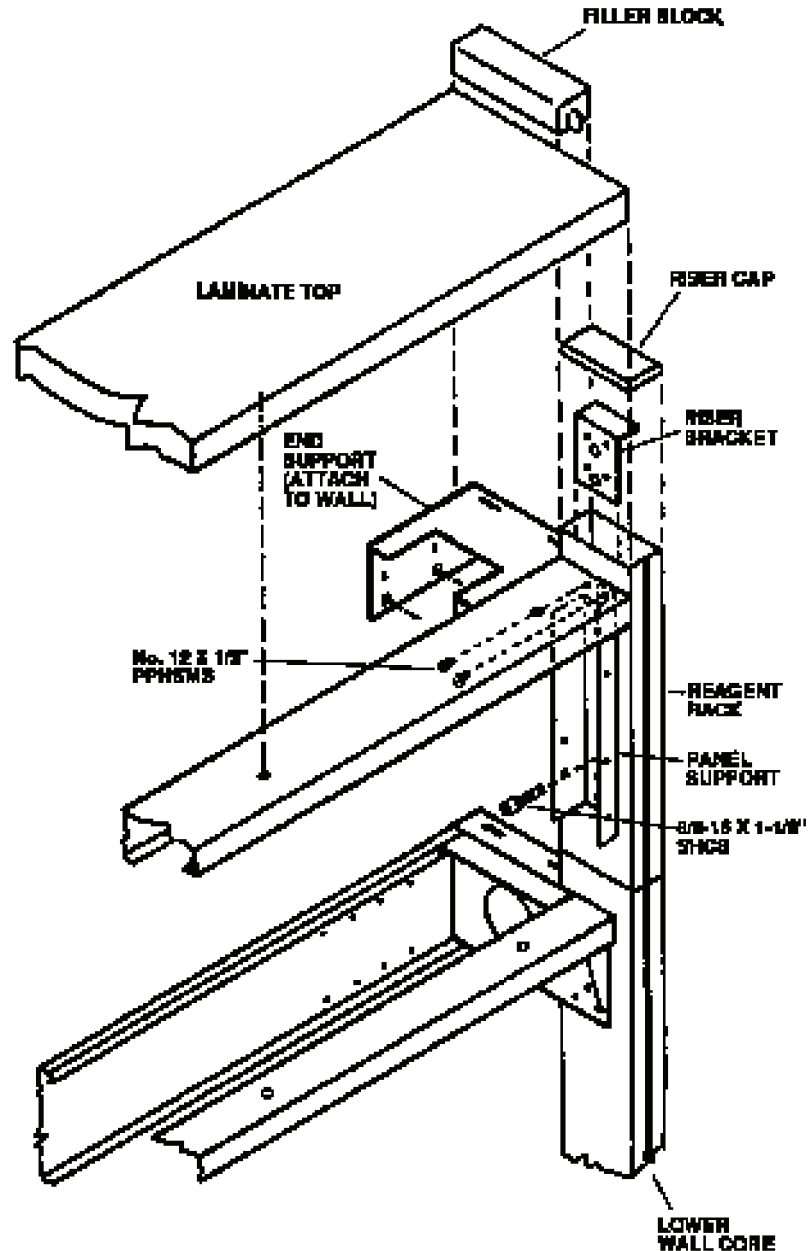# ATTACHING REAGENT RACK TO LOWER WALL CORE

**Tools Required:**

5/16" Socket hex bit.

Phillips screwdriver (No. 2 & 3 tips).

Facing insert removal tool.

Torque wrench.

**Hardware Included:**

Bag assembly consisting of:

4 - No. 12 x 1/2" PPHSMS.

2 - Inner jump connectors.

2 - Outer jump connectors.

4 - 3/8" washers.

6 - 3/8-16 x 1-1/8" SHCS.

1. Refer to page 19 "Attaching Reagent to Lower Island Core", steps 1 through 10. (The longer flange of the end support bracket must be against wall.)

2. Using proper anchors for wall construction, attach the end support brackets on the reagent rack to the wall. See Figure 1.

3. Refer to page 20 "Attaching Reagent Rack to Lower Island Core" steps 11 through 18.



*Figure 1*

# ATTACHING UPPER WALL CORE TO LOWER WALL CORE

**Tools Required:**
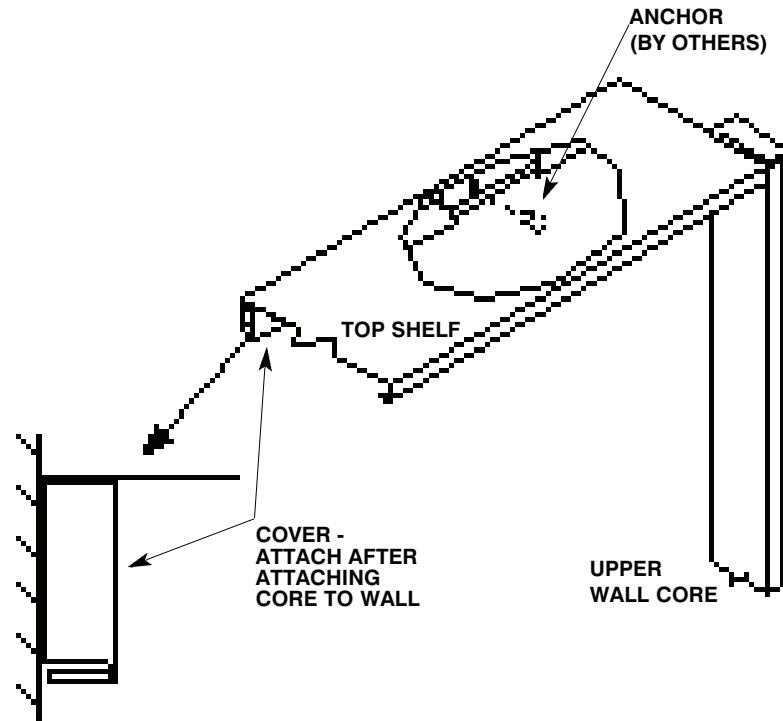
5/16" Socket hex bit.
Phillips screwdriver (No. 2 & 3 tips).
Facing insert removal tool.
Torque wrench.
Flat blade screwdriver.

**Hardware Included:**

Bag assembly consisting of:
4 - No. 12 x 1/2" PPHSMS.
2 - Inner jump connectors.
2 - Outer jump connectors.
4 - 3/8-16 x 5/8" SHCS.
2 - 3/8-16 x 1-1/8" SHCS.
1 - 3/8-16 x 3" HHCS, Gr 5.
1 - 3/8-16 nut.
2 - 3/8" hole plugs.
4 - 3/16" hole plugs.
4 - Socket screw caps.

1. Refer to page 21 "Attaching Upper Island Core to Lower Island Core", steps 1 through 7.

2. Using proper anchors for wall construction, attach the upper shelf to the wall. See Figure 1.

3. Refer to page 21 "Attaching Upper Island Core to Lower Island Core", steps 8 through 11.



**ANCHOR (BY OTHERS)**

**TOP SHELF**

**COVER - ATTACH AFTER ATTACHING CORE TO WALL**

**UPPER WALL CORE**

*Figure 1*

# ATTACHING UPPER WALL CORE WITH REAGENT RACK TO LOWER WALL CORE

## Tools Required:
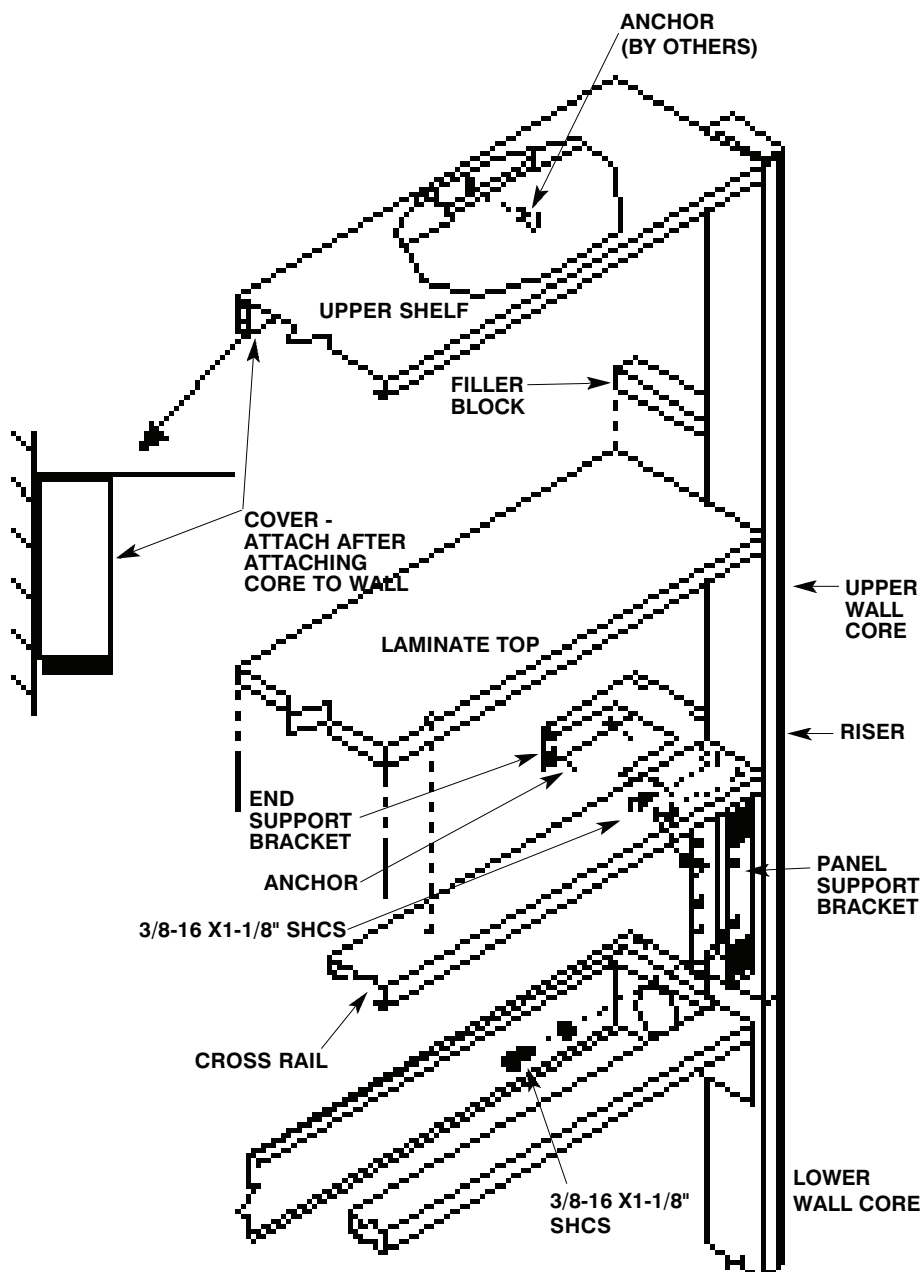5/16" Socket hex bit.
Phillips screwdriver (No. 2 & 3 tips).
Facing insert removal tool.
Torque wrench.
Flat blade screwdriver.

## Hardware Included:
Bag assembly consisting of:
  2 - Inner jump connectors.
  2 - Outer jump connectors.
  4 - 3/8 washers.
  6 - 3/8-16 x 1-1/8" SHCS.
  1 - 3/8-16 x 3" HHCS, Gr. 5.
  1 - 3/8-16 nut
12 - No. 12 x 1/2" PPHSMS.
  2 - 3/8" hole plugs.

1. Refer to page 22 "Attaching Upper Island Core with Reagent Rack to Lower Island Core", steps 1 through 3.

2. Using proper anchors for wall construction, attach the upper shelf to the wall.

3. Position the cross rail between the risers and attach using No. 12 x 1/2" PPHSMS. The top of the panel support bracket should be captured by the No. 12 screws. The longer flange of the cross rail must face toward the inside of the core.

4. Position the end support brackets and attach to the cross rail with No. 12 x 1/2" PPHSMS. The longer flange of the end support bracket must be against the wall.

5. Using proper anchors for wall construction, attach the end support brackets on the reagent rack to the wall.

6. Refer to page 20 "Attaching Reagent Rack to Lower Island Core", steps 10 through 18.
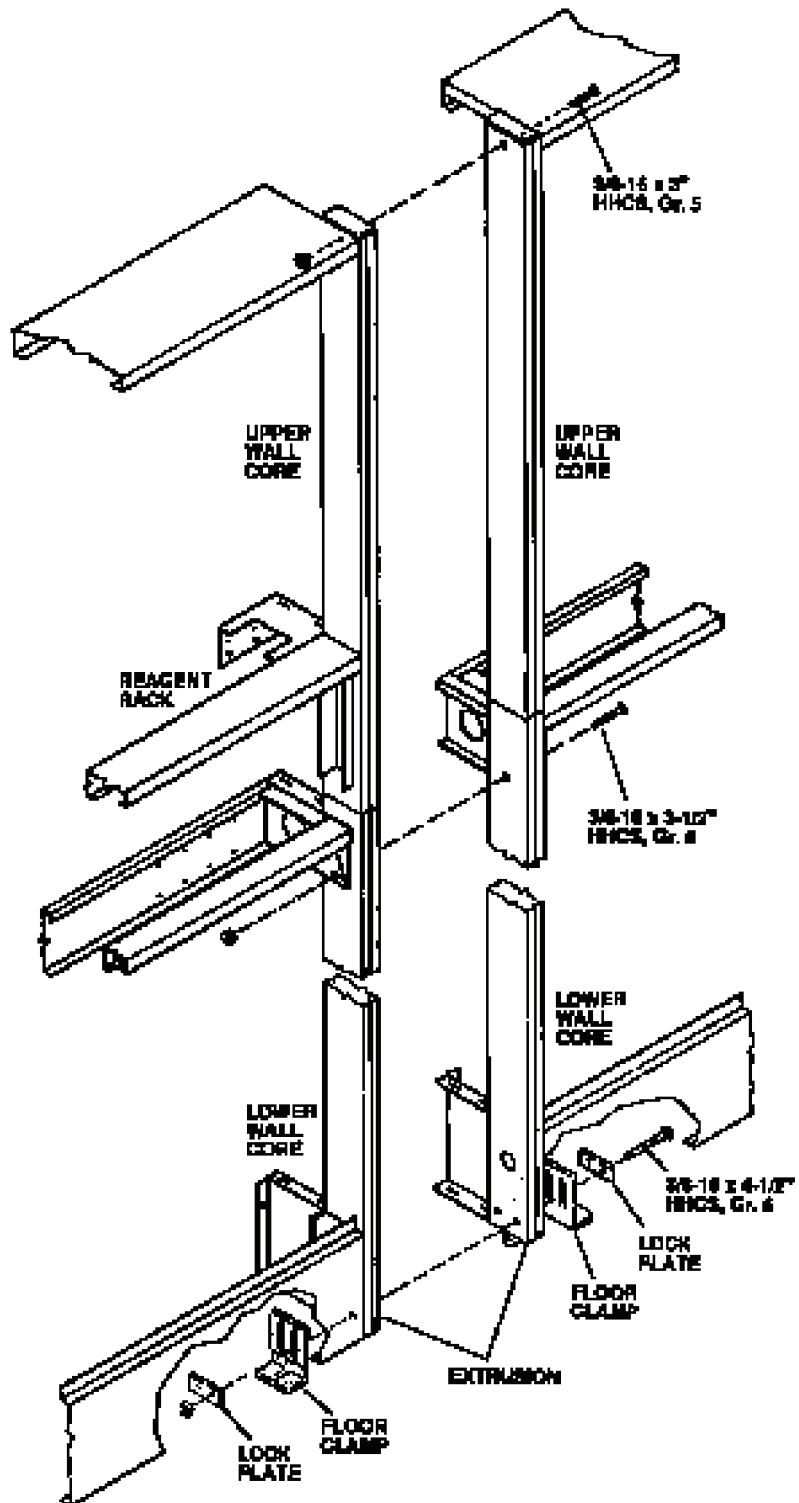


**Figure 1**

ANCHOR (BY OTHERS)
UPPER SHELF
FILLER BLOCK
COVER - ATTACH AFTER ATTACHING CORE TO WALL
LAMINATE TOP
UPPER WALL CORE
RISER
END SUPPORT BRACKET
ANCHOR
PANEL SUPPORT BRACKET
3/8-16 X1-1/8" SHCS
CROSS RAIL
3/8-16 X1-1/8" SHCS
LOWER WALL CORE

## ATTACHING ADJOINING WALL CORES

**Tools Required:**

Socket set with 9/16" socket.
Facing insert removal tool.
9/16" Combination wrench.

1. Place the cores side by side. Attach the cores at their bases with 3/8-16 x 4-1/2" HHCS, Gr. 5 through the floor clamps, lock plates and extrusions. Also attach the extrusion at the midpoint and top with 3/8-16 x 3-1/2" HHCS, Gr. 5, and at the top with 3/8-16 x 3" HHCS, Gr. 5.

**Note:** See section "Attaching Island Core to Floor", and Attaching Wall Core to Wall".



*Figure 1*

# INSTALLATION OF DIAGONAL BRACES ON SEISMIC WALL CORES

**Tools Required:**
9/16" Combination Wrench - 2 Required
1/2" Electric Drill
1/2" Masonry Drill Bit
Hammer

**NOTE: For Seismic approved island core installation only, install the anchors included with the Diagonal Brace Kit in lieu of the standard anchors, for anchoring the floor clamps. Seismic approval requires 2-7/8" min. cement embedment anchor.**

**NOTE: All floor anchors must be installed in order to achieve the maximum load ratings.**

1. Attach diagonal brace to island core upright using 3/8" bolt. If core is a stand-alone unit, use washer on outside of upright. (See Figure 1)
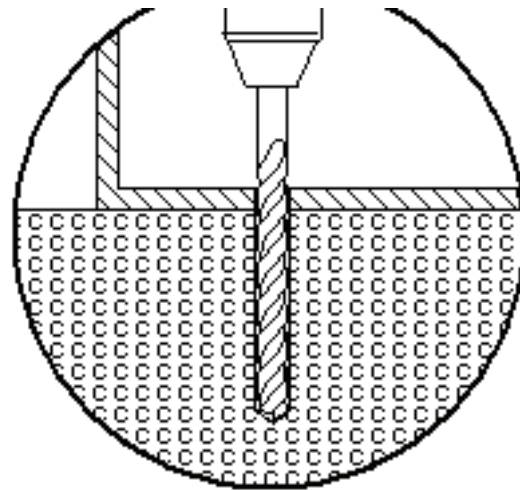


3/8" Bolt

Seismic Brace

Upright

Rawl Bolt
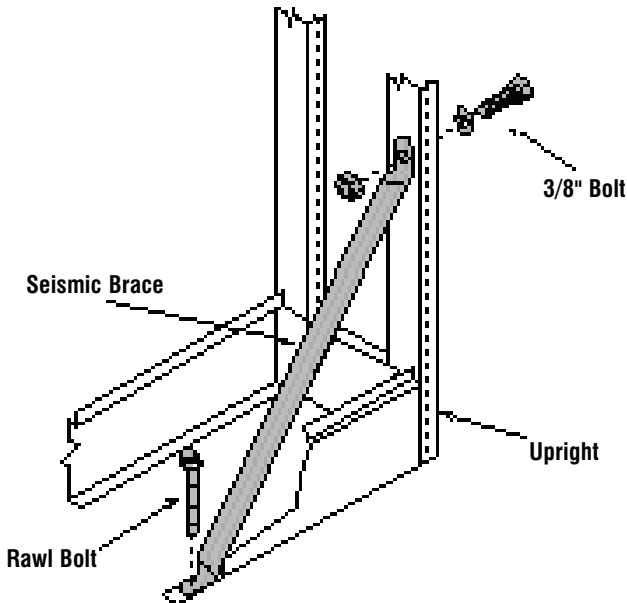
**FIGURE 1**
**Attaching Seismic Brace to Core Upright.**

2. If core is at the end of a run, position upper end of diagonal brace against upright adjacent to connecting core.

3. Using hole in lower end of diagonal brace as a template, drill 1/2" hole in floor at least 3-5/8" deep.

4. Clean dust from floor and hole (blow dust out of hole).



FI...
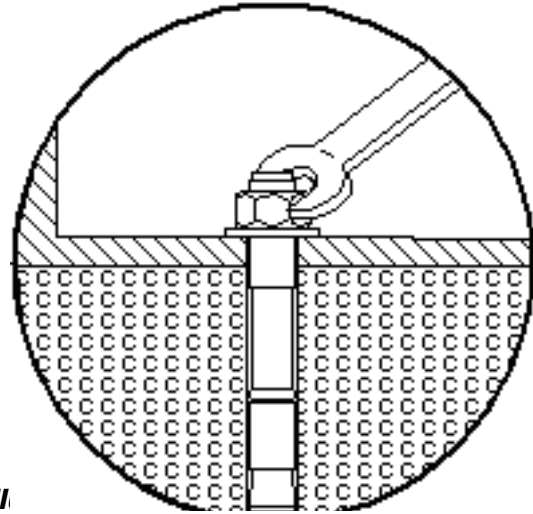
5. Remove tag from assembled anchor, insert into drilled hole and tap down until washer and bolt head are seated against brace.



**FIGURE 3**

6. Tighten floor anchors with wrench to 60 Ft. Lbs. torque. (Part No. 12085, Rawl No. 6931). (See Figure 3)

7. Tighten all other 3/8" bolts.

# ASSEMBLING CORNER COLUMN AND ATTACHING TO ISLAND CORE

**Tools Required:**

Socket set with 9/16" and 7/16" sockets.

Facing insert removal tool.

9/16" and 7/16" Combination wrenches.

Phillips screwdriver (No. 2 & 3 tips).

1/2" Drill motor (hammer preferable) with 1/2" Masonry bit.

Hammer.

**Hardware Included:**

Bag assembly No. 831321 for lower corner column, 12" x 12":

  1 - Floor clamp.
  2 - Lock plates.
 12 - 3/8-16 Nuts.
  6 - 3/8-16 x 2" HHCS, Gr 5.
  6 - 3/8-16 x 2-1/2" HHCS, Gr. 5.
  3 - Floor anchors, 1/2" x 2-3/4".

Bag assembly for reagent corner column, 12" x 12":

  2 - Inner jump connectors.
  2 - Outer jump connectors.
  6 - 1/4-20 Hex nuts.
  6 - 3/8-16 x 1-1/8" SHCS.
 10 - 1/4-20 x 1/2" PPHMS.
  8 - No. 10 x 1/2" PPHSMS.

Bag assembly for upper corner column, 12" x 12":

  2 - Inner jump connectors.
  2 - Outer jump connectors.
  6 - 1/4-20 Hex nuts.
  6 - 3/8-16 x 1-1/8" SHCS.
 10 - 1/4-20 x 1/2" PPHMS.
 14 - No. 10 x 1/2" PPHSMS.
  6 - 3/8-16 Hex nuts.
  6 - 3/8-16 x 2" HHCS.

Bag assembly for upper corner column closure, 12" x 12":

  6 - No. 10-24 Hex nuts.
  8 - No. 10-24 x 1/2" PPHMS.
  8 - Washers.
  4 - 1/4-20 x 1/2" PPHMS.
  4 - 1/4-20 Hex nuts.
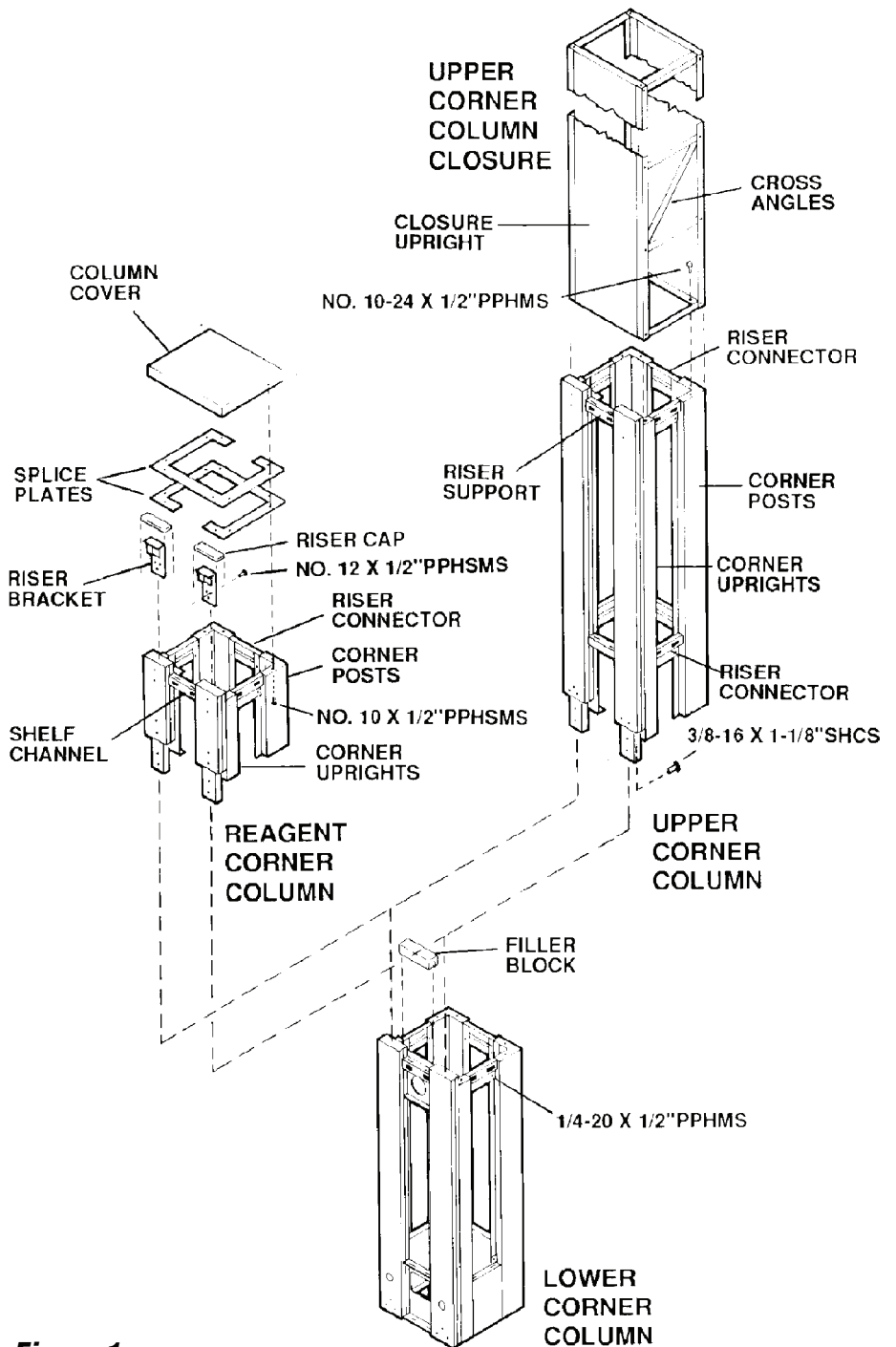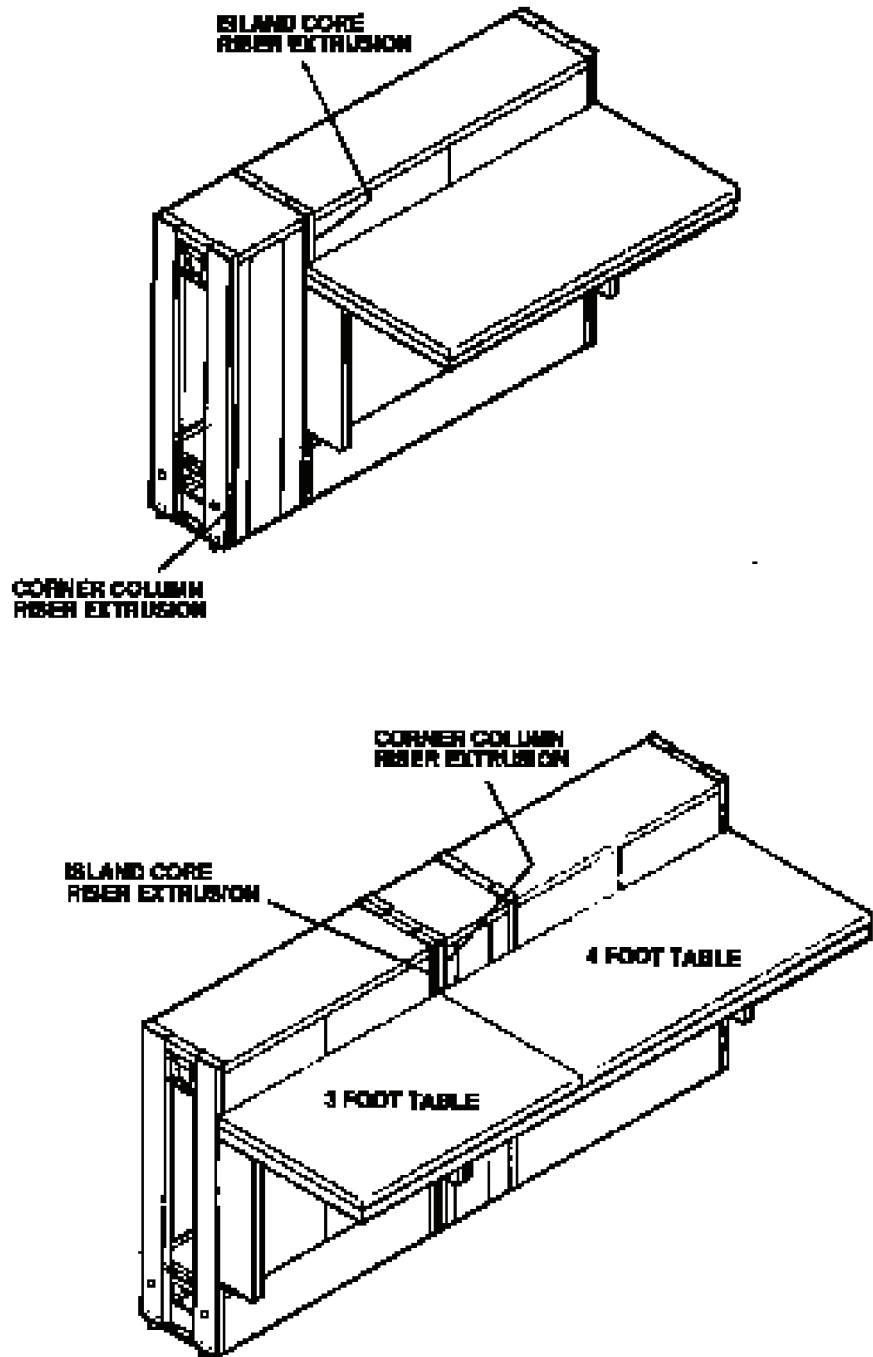


*Figure 1*

# ASSEMBLING CORNER COLUMN (12" X 12" AND ATTACHING TO ISLAND CORE (Continued)

**Note:** Each corner column has a riser extrusion at one side only, see Figures 2 and 3. The riser extrusion contains the slots that the cantilever table and shelf hooks fit into. When installing corner columns and island cores, plan ahead so that the riser extrusion slots are in the correct position to align with the table and shelf lengths that are being installed.
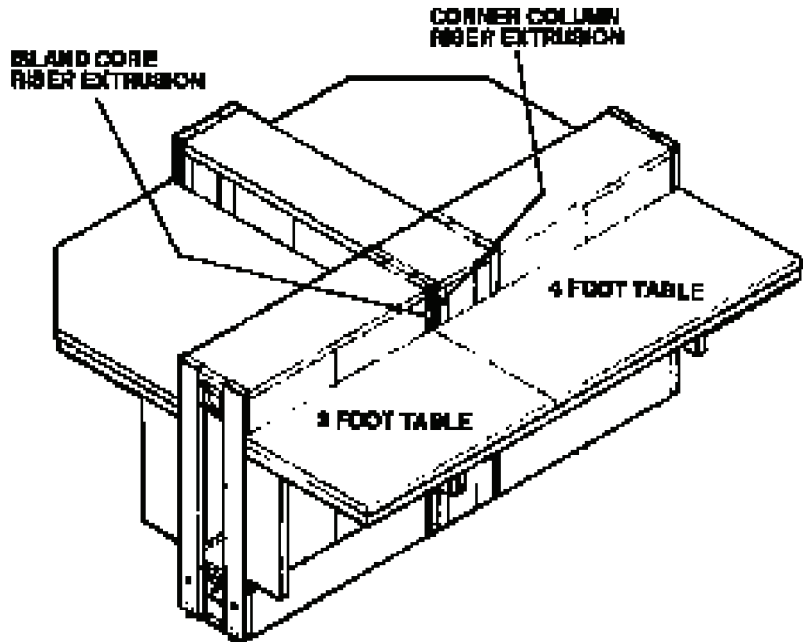
*Figure 2*

## ASSEMBLING CORNER COLUMN (12" X 12") AND ATTACHING TO ISLAND CORE (Continued)

1. Remove facing inserts from column and island core with facing insert removal tool. Place the inserts in an area protected from damage.

**Refer to Figure 4:**

2. Attach the lower corner column to the island core with 3/8-16 x 2" HHCS, Gr. 5, at the midpoint of the column and with 3/8-16 x 2-1/2" HHCS, Gr. 5, at the base of the column. If the riser extrusion on the corner column is to be mated to a riser on an island core, then use a 3/8-16 x 3-1/2" HHCS, Gr. 5, at the midpoint and a 3/8-16 x 4-1/2" HHCS, Gr. 5, at the base. Those screws are provided with the island core. Refer to page 16 and 17 "Attaching Island Core to Floor" when mounting floor clamp to corner column.

*Figure 3*
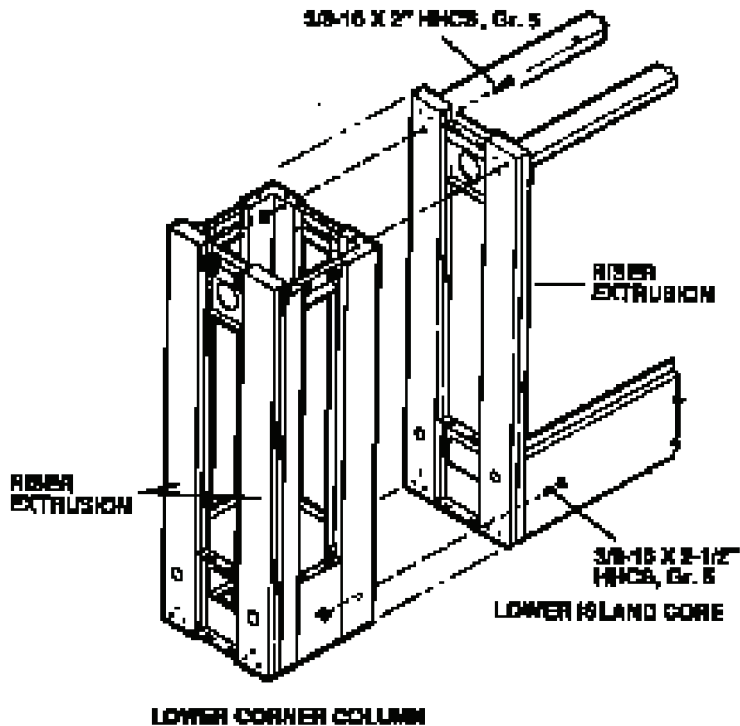
*Figure 4*

# ASSEMBLING CORNER COLUMN (12" X 12" AND ATTACHING TO ISLAND CORE (Continued)

**Refer to Figure 5:**

3. To attach a reagent level corner column to a lower corner column, proceed with the following steps:

3a. Remove riser caps by carefully prying up with a flat blade screw driver. Remove No. 10 x 1/2" PPHSMS holding the column cover to the lower column. Remove the 3/8-16 x 1-1/8" SHCS holding the riser brackets and remove the brackets. Remove the filler block by lifting straight up. Save these components for later use.
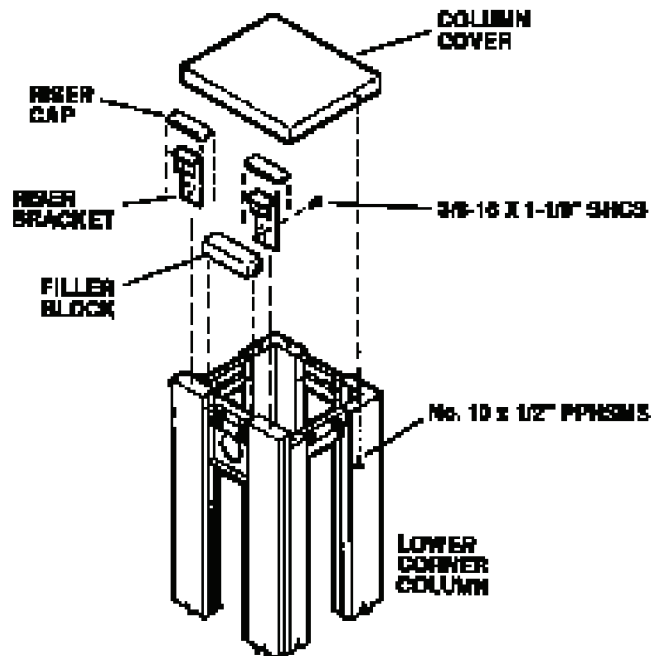
**Refer to Figure 6:**

3b. Insert the jump connector halves into the lower corner column risers and loosely hold in place with the 3/8-16 x 1-1/8" SHCS.

3c. Slip the reagent riser sections over the jump connectors; position the corner uprights; and loosely hold together with the 3/8-16 x 1-1/8" SHCS.

3d. Slip the riser brackets into the top of the reagent risers and attach with No. 12 x 1/2" PPHSMS. The top of the corner uprights should be captured by the 1/4" screws.

3e. Torque all 3/8-16 SHCS in the jump connectors to 20-25 Ft. lbs.

3f. Attach the corner posts and corner uprights to the lower corner column with 1/4-20 x 1/2" PPHMS and 1/4-20 nuts.

3g. Attach the 3 riser connectors and 1 shelf channel with No. 10 x 1/2" PPHSMS.

3h. Attach the column cover with No. 10 x 1/2" PPHSMS.

3i. Insert the filler block between the risers. The tabs will snap into the riser slots at the reagent level.

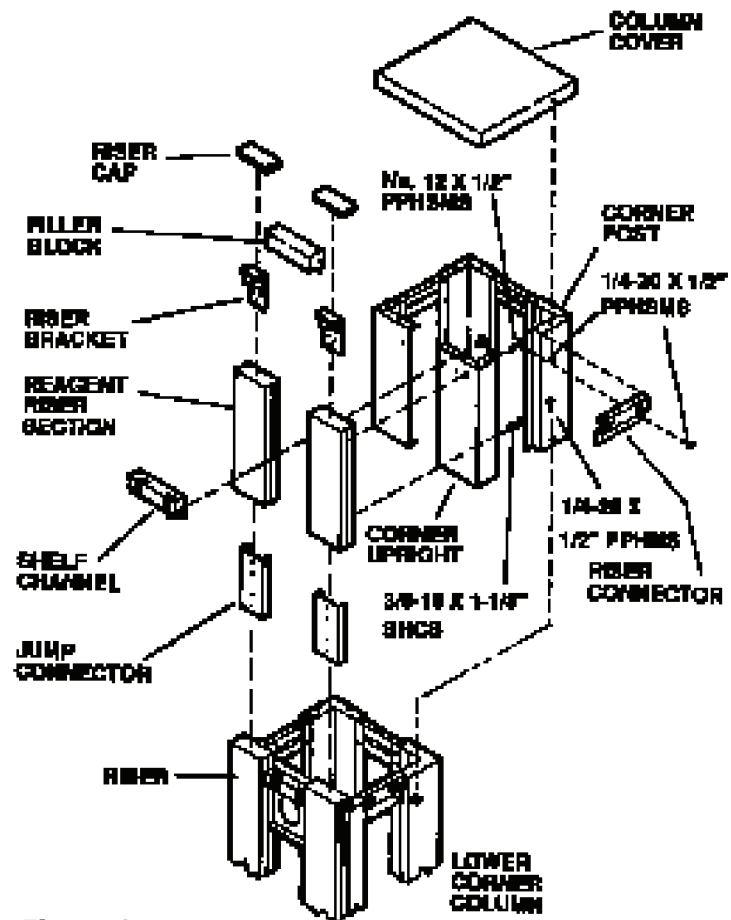3j. Attach riser caps by pressing firmly onto end of riser.



*Figure 5*



*Figure 6*

## ASSEMBLING CORNER COLUMN (12" X 12") AND ATTACHING TO ISLAND CORE (Continued)

**Refer to Figure 7:**

4. To attach an upper corner column to a lower corner column, proceed with the following steps:

4a. Refer to Steps 3a and 3b.

4b. Slip the upper riser sections over the jump connectors; position the corner uprights; and loosely hold together with the 3/8-16 x 1-1/8" SHCS.

4c. Slip the riser brackets into the top of the upper risers; position the riser support on the inside of the corner uprights; and attach using No. 12 x 1/2" PPHSMS. The top of the corner uprights should be captured by the 1/4" screws.

4d. Refer to Steps 3e and 3f.

4e. Attach the 6 riser connectors and 1 shelf channel with No. 10 x 1/2" PPHSMS.

4f. Refer to Steps 3h and 3j.

5. Attach the upper corner column to an upper island core with a 3/8-16 x 2" HHCS, Gr. 5, or, if two risers are mated together, use a 3/8-16 x 3" HHCS, Gr. 5.

**Refer to Figure 8:**

6. If an upper corner column closure is needed above the 85" level, proceed with the following steps:

6a. Remove the column cover on top of the upper corner column and replace with the two splice plates. Use 1/4-20 x 1/2" PPHMS to hold the closure uprights and splice plates to the upper corner column.

6b. Attach the cross angles to the closure uprights with No. 10-24 x 1/2" PPHMS, nuts and washers.

7. Install all facing inserts by inserting the tabs into the appropriate slots and/or pressing firmly over the dual-lock fasteners.



*Figure 7*



*Figure 8*

# ASSEMBLING CORNER COLUMN (12" X 8-3/4") AND ATTACHING TO ISLAND OR WALL CORE

**Tools Required:**
Socket set with 9/16" and 7/16" sockets.
Facing insert removal tool.
9/16" and 7/16" Combination wrenchs.
Phillips screwdriver (No. 2 & 3 tips).

**Hardware Included:**
Bag assembly No. 831322 for lower corner column, 12" x 8-3/4":
12 - 3/8-16 Nuts.
  4 - 3/8-16 x 2" HHCS, Gr. 5.
  8 - 3/8-16 x 2-1/2" HHCS, Gr. 5.
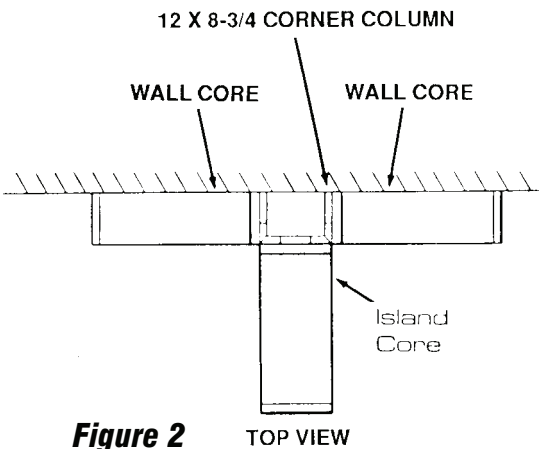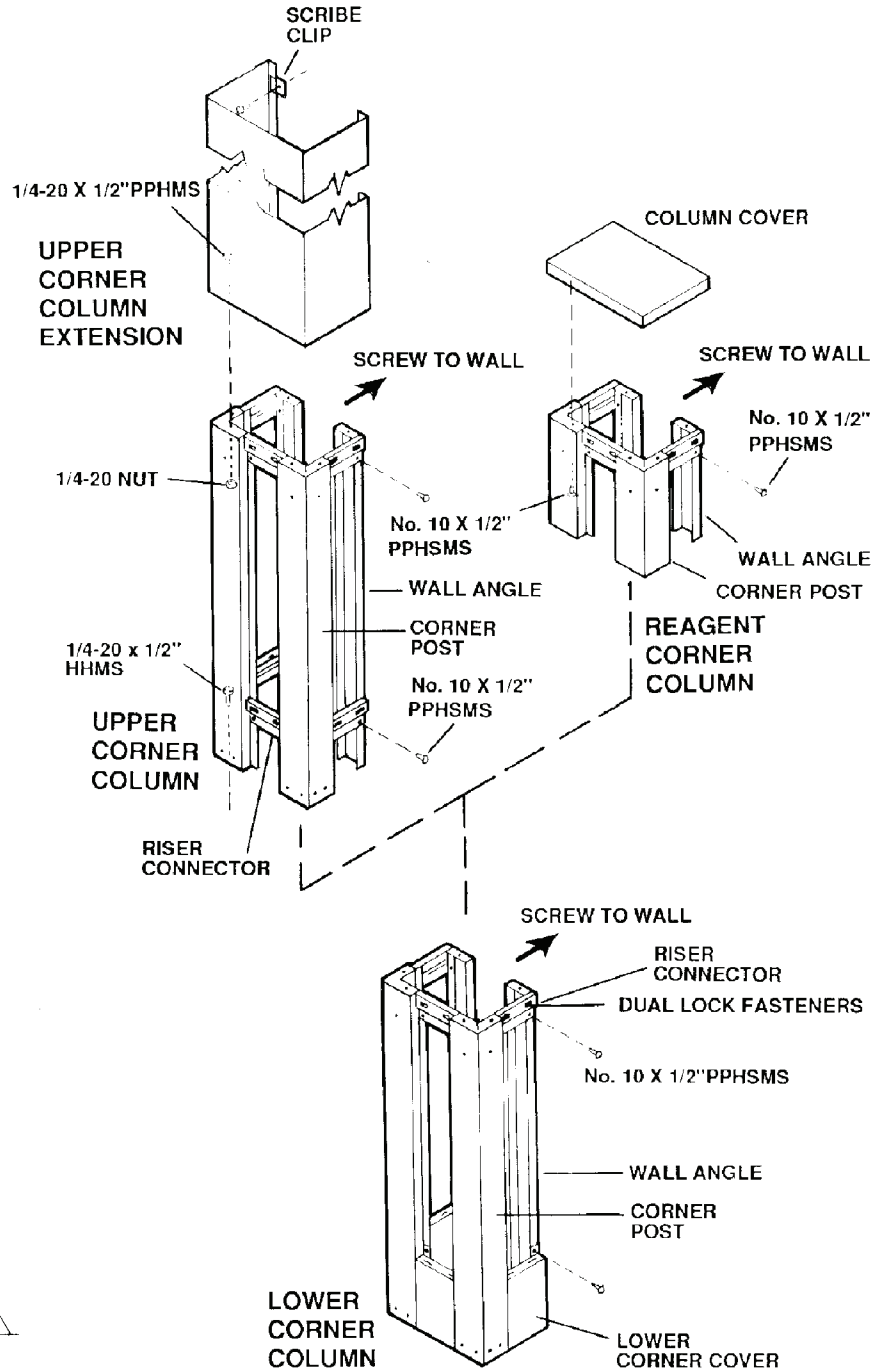16 - No. 10 x 1/2" PPHSMS.
Bag assembly for reagent corner column, 12" x 8-3/4":
  6 - 1/4-20 Hex nuts.
  6 - 1/4-20 x 1/2" PPHMS.
  6 - No. 10 x 1/2" PPHSMS.
Bag assembly for upper corner column, 12" x 8-3/4":
  6 - 1/4-20 Hex nuts.
  4 - 3/8-16 x 2" HHCS.
  6 - 1/4-20 x 1/2" PPHMS.
12 - No. 10 x 1/2" PPHSMS.
  4 - 3/8-16 Hex nuts.
Bag assembly for upper corner column extension, 12" x 8-3/4":
  6 - Scribe clips.
  4 - 1/4-20 x 1/2" PPHMS.
  4 - 1/4-20 Hex nuts.



*Figure 1*



*Figure 2*   TOP VIEW

# ASSEMBLING CORNER COLUMN (12" X 8-3/4") AND ATTACHING TO ISLAND OR WALL CORE (Continued)

1. Remove facing inserts from island and wall cores with facing insert removal tool. Place the inserts in an area protected from damage.
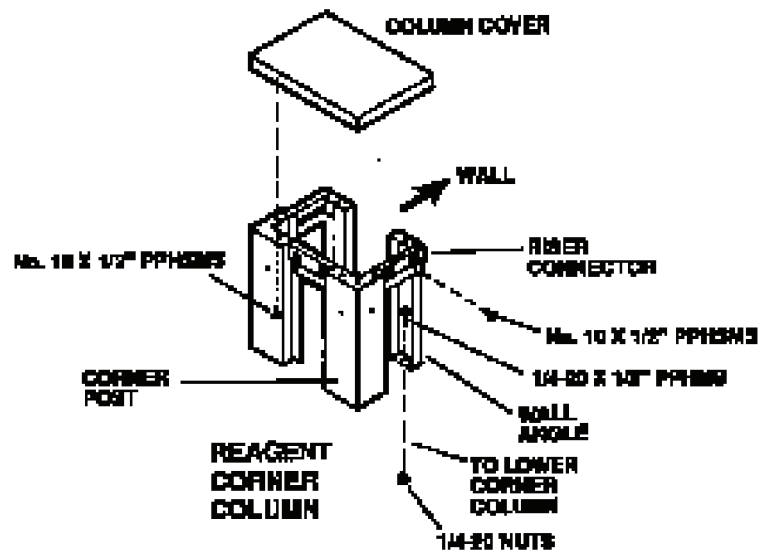
**Refer to Figure 3:**

2. To assemble the lower corner column, proceed with the following steps:

2a. Attach riser connectors and lower corner covers to corner posts and wall angles with No. 10 x 1/2" PPHSMS.

2b. Attach the corner posts to island or wall cores with 3/8-16 x 2" HHCS at the midpoint of the column and with 3/8-16 x 2-1/2" HHCS, Gr. 5, at the base of the column.

2c. Using proper anchors for wall construction, attach the wall angles to the wall.

2d. Attach column cover to lower corner column with No. 10 x 1/2" PPHSMS.
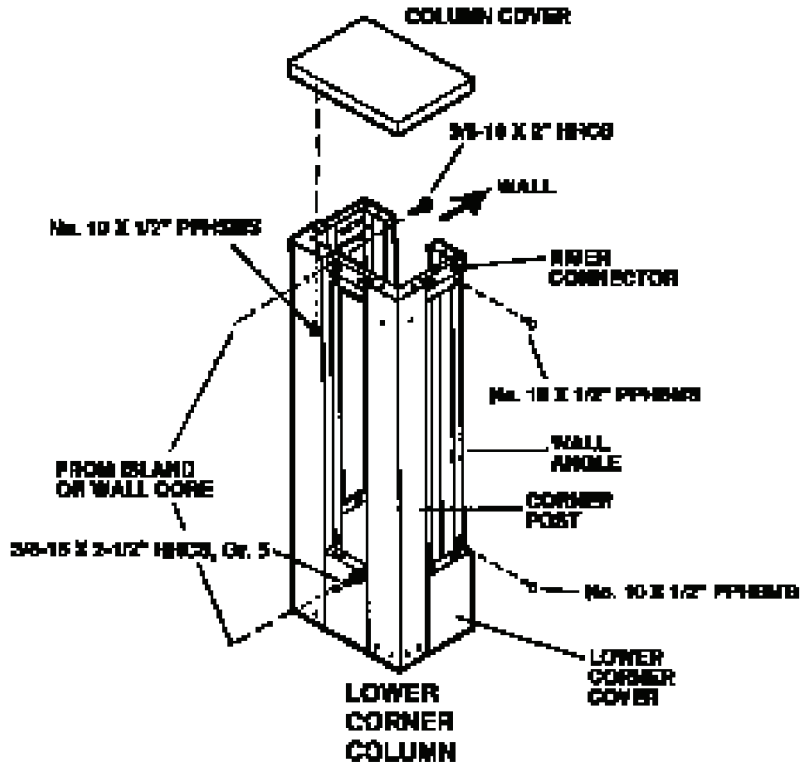
**Refer to Figure 4:**

3. To attach a reagent corner column to a lower corner column, proceed with the following steps:

3a. Remove No. 10 x 1/2" PPHSMS holding the column cover to the lower corner column, Save for later use.

3b. Attach the riser connectors to the corner posts and wall angles with No. 10 x 1/2" PPHSMS.

3c. Attach the reagent corner posts and wall angles to the lower corner column with 1/4-20 x 1/2" PPHMS and 1/4-20 nuts.

3d. Using proper anchors for wall construction, attach the wall angles to the wall.

3e. Attach column cover to reagent corner column with No. 10 x 1/2" PPHSMS.

*Figure 4*

# ASSEMBLING CORNER COLUMN (12" X 8-3/4") AND ATTACHING TO ISLAND OR WALL CORE (Continued)
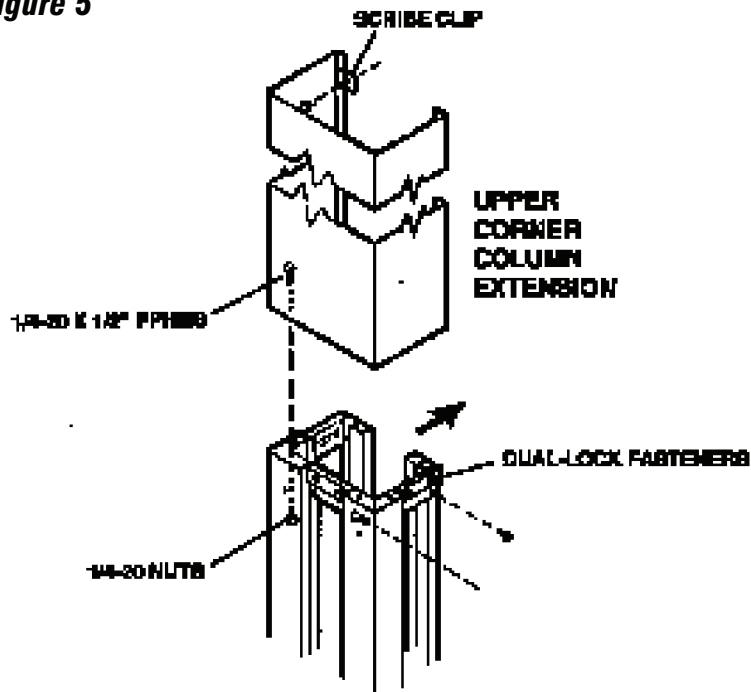
**Refer to Figure 5:**

4. To attach an upper corner column to a lower corner column, proceed with the following steps:

4a. Remove No. 10 x 1/2" PPHSMS holding the column cover to the lower corner column, Save for later use.

4b. Attach the riser connectors to the corner posts and wall angles with No. 10 x 1/2" PPHSMS.

4c. Attach the upper corner posts and wall angles to the lower corner column with 1/4-20 x 1/2" PPHMS and 1/4-20 nuts.

4d. Attach the corner posts to upper island or wall cores with 3/8-16 x 2" HHCS.

4e. Using proper anchors for wall construction, attach the wall angles to the wall.

4f. Attach column cover to upper corner column with No. 10 x 1/2" PPHSMS.
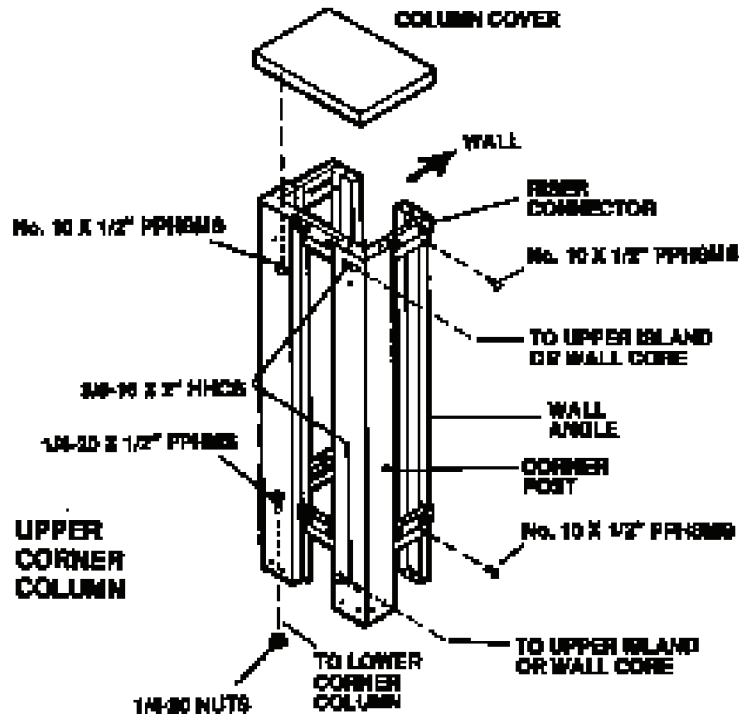
**Refer to Figure 6:**

5. To attach an upper corner column extension above the 85" level, proceed with the following steps:

5a. Remove No. 10 x 1/2" PPHSMS holding the column cover to the upper corner column, Save for later use.

5b. Attach extension panel to the upper corner column with 1/4-20 x 1/2" PPHMS and 1/4-20 nuts.

5c. Using proper anchors for wall construction, attach the scribe clips to the wall to hold the extension panel in place.

6. Install all facing inserts by inserting the tabs into the appropriate slots and/or pressing firmly over the Dual-Lock fasteners.

*Figure 5*

*Figure 6*

Dimensions are nominal and illustrations and specifications are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

# ASSEMBLING CORNER COLUMN (8-3/4" X 8-3/4") AND ATTACHING TO WALL CORE

## Tools Required:
Socket set with 9/16" and 7/16" sockets.
Facing insert removal tool.
9/16" and 7/16" Combination wrenchs.
Phillips screwdriver (No. 2 & 3 tips).

## Hardware Included:
Bag assembly No. 831323 for lower corner column, 8-3/4" x 8-3/4":
  6 - 3/8-16 Nuts.
  2 - 3/8-16 x 2" HHCS.
  4 - 3/8-16 x 2-1/2" HHCS, Gr. 5.
11 - No. 10 x 1/2" PPHSMS.
Bag assembly for reagent corner column, 8-3/4" x 8-3/4":
  4 - 1/4-20 Hex nuts.
  4 - 1/4-20 x 1/2" PPHMS.
  4 - No. 10 x 1/2" PPHSMS.
Bag assembly for upper corner column, 8-3/4" x 8-3/4":
  4 - 1/4-20 Hex nuts.
  2 - 3/8-16 x 2" HHCS.
  4 - 1/4-20 x 1/2" PPHMS.
  8 - No. 10 x 1/2" PPHSMS.
  2 - 3/8-16 Hex nuts.
Bag assembly for upper corner column extension, 8-3/4" x 8-3/4":
  6 - Scribe clips.
  2 - 1/4-20 x 1/2" PPHMS.
  2 - 1/4-20 Hex nuts.

1. **Follow the same procedure as Attaching a Corner Column (12" x 8-3/4") to a core, See Page 40, 41 and 42.**
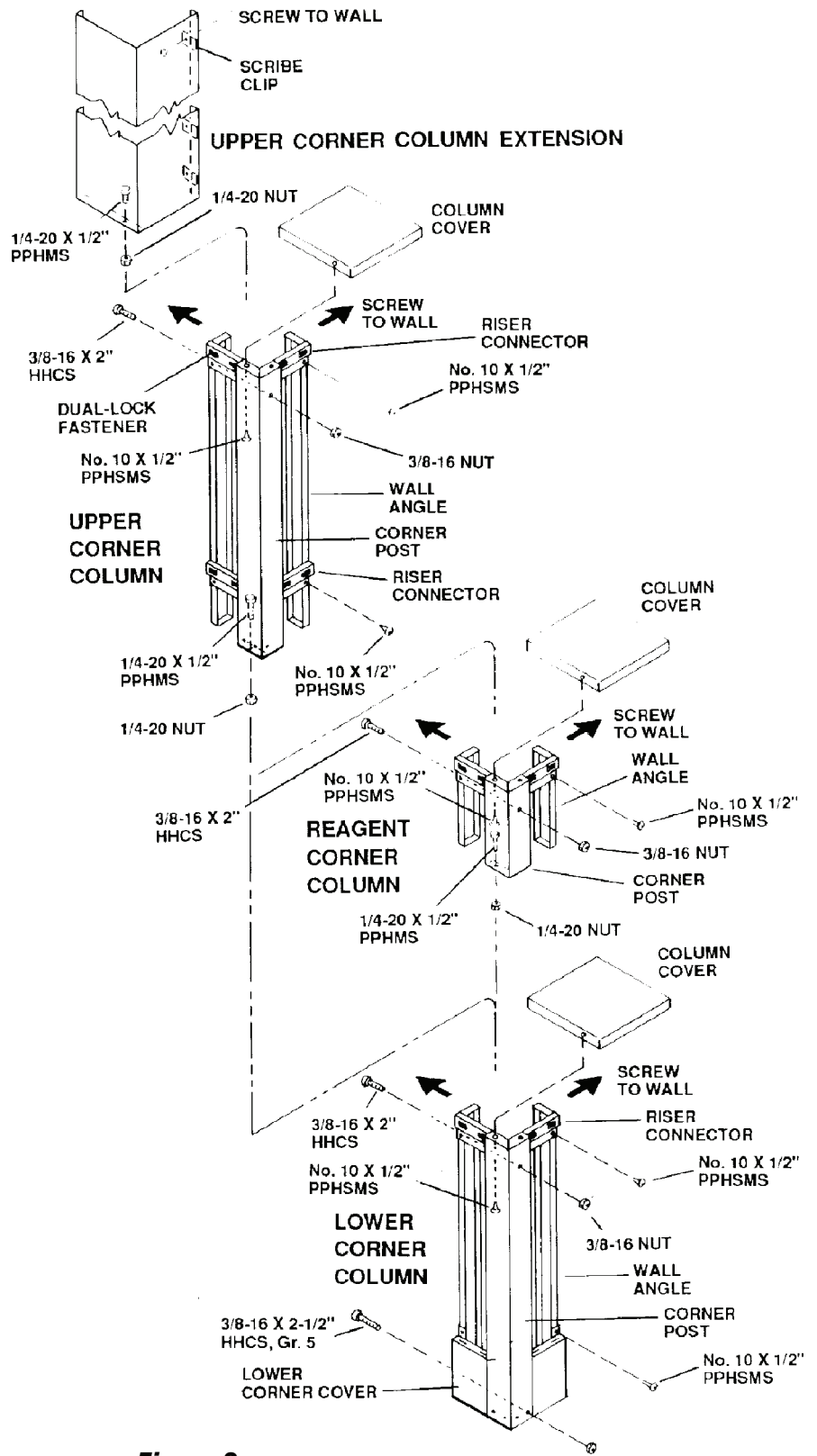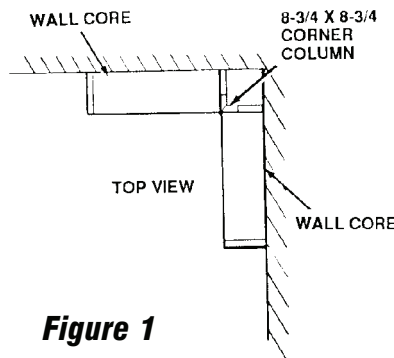


Figure 1



Figure 2

# ATTACHING SERVICE COLUMN ONTO ISLAND CORE

**Product Numbers:**

| | |
|---|---|
| 930H662 | 930H673 |
| 930H663 | 930H674 |
| 930H664 | 930H675 |
| 930H665 | 930H676 |
| 930H666 | |

**Tools Required:**

Phillips screwdriver
3/8" Wrench.
Electric Drill and 3/32" Bit

**Hardware Included:**

| | |
|---|---|
| Short Braces | 10 ea |
| Side Cover Panels | 6 ea. |
| Long Braces | 2 ea. |
| Cross Braces | 2 ea. |
| #10 x 24 Screws, Nuts & Washers | 20 ea. |
| Service Column End Panels | 2 ea. |
| Dual-Lock Fasteners | 64 ea. |
| #10 x 3/4" Sheet Metal Screws | 4 ea. |

**Assembling the Service Column:**

1. Attach the short braces to the end panels using the No. 10-24 screws and nuts. Attach the longer diagonal braces as shown in Figure 1.

   **NOTE:** The diagonal braces can be placed anywhere, preferably at the center of the assembly. Their purpose is to prevent parallelogramming of the end panels.
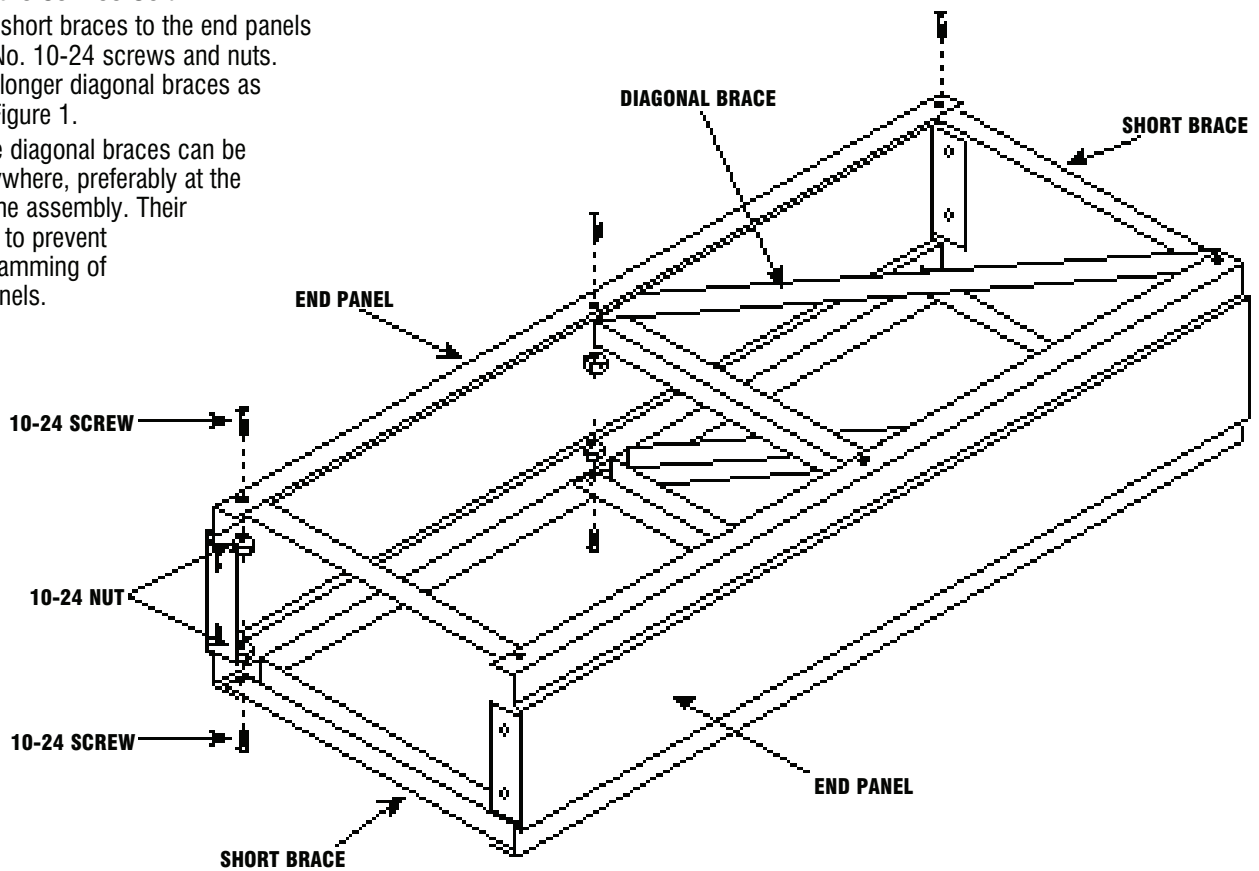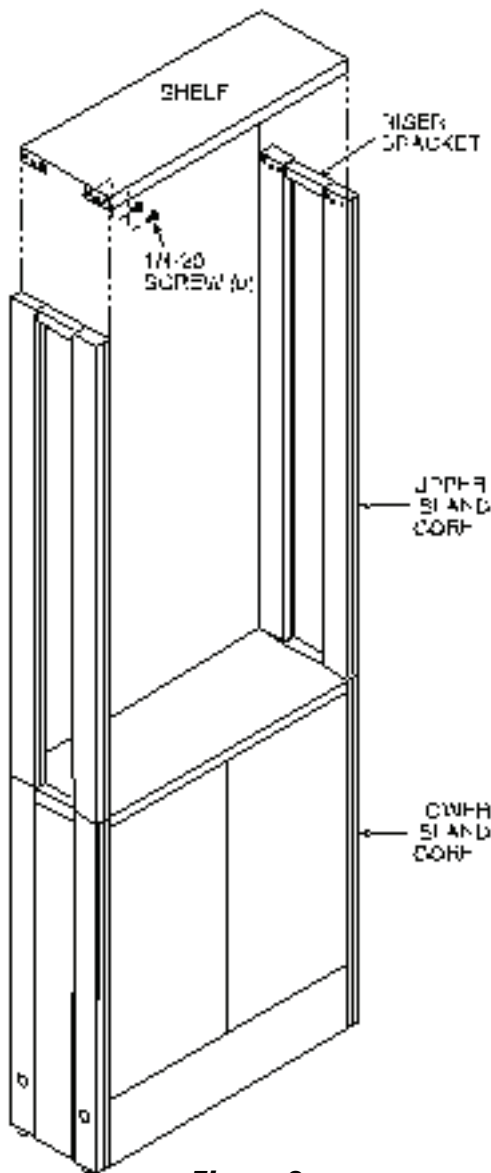


*Figure 1*

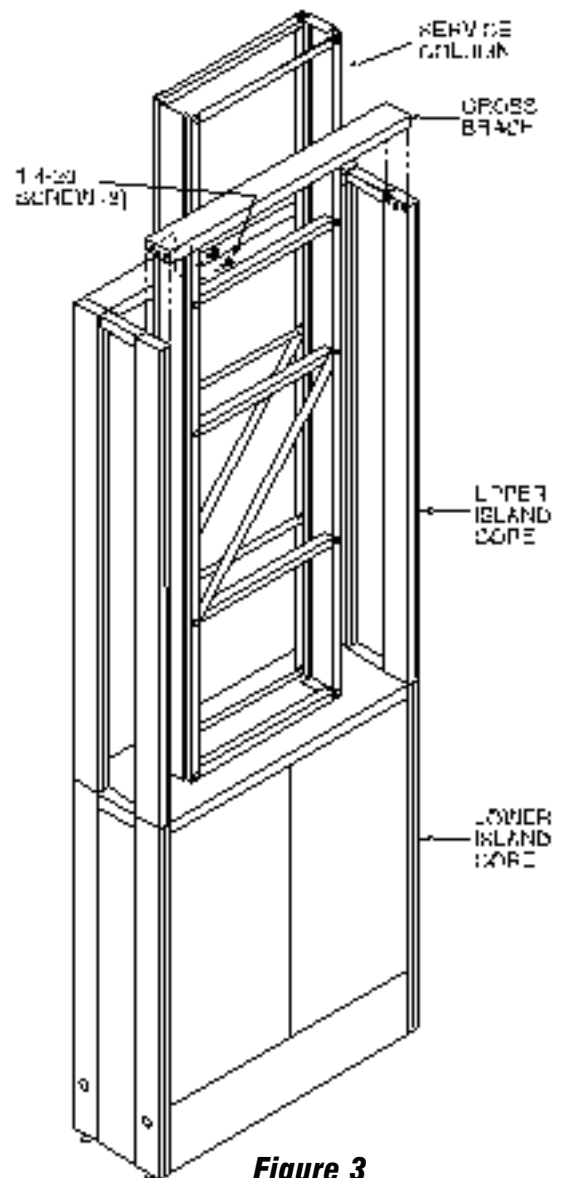## ATTACHING SERVICE COLUMN ONTO ISLAND CORE (Continued)

**Refer to Figure 2.**

1. Remove the shelf on the top of the upper island core and replace with one of the two cross braces supplied with the service column using four of the No. 12 x 1/2" PPHSMS screws removed from the shelf.

**Refer to Figure 3.**

1. Place service column on top of the lower island core. Attach the remaining cross brace at the top of the upper island core using the remaining four screws removed from the shelf.
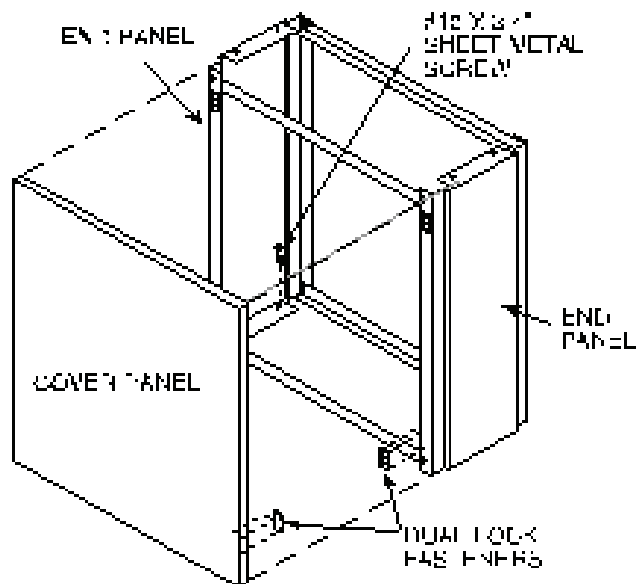
*Figure 2*

*Figure 3*

# ATTACHING SERVICE COLUMN ONTO ISLAND CORE (Continued)

### Refer to Figure 4.

3. Secure the service column to the island core using (4) No. 10 x 3/4" sheet metal screws through the flanges at the bottom of the end panels. Use the holes in the flanges as a guide to drill 3/32" dia. pilot holes in the lower island core. See Figure 4.

4. Place "Dual-Lock" fasteners, one on the end panel and its mate on the cover panel. Use four fasteners for each cover panel. See Figure 4. (Clean painted surfaces with solvent before applying "Dual-Lock" patches.)

**See Figure 5** for recommended placement of service columns on different island core configurations.

*Figure 4*
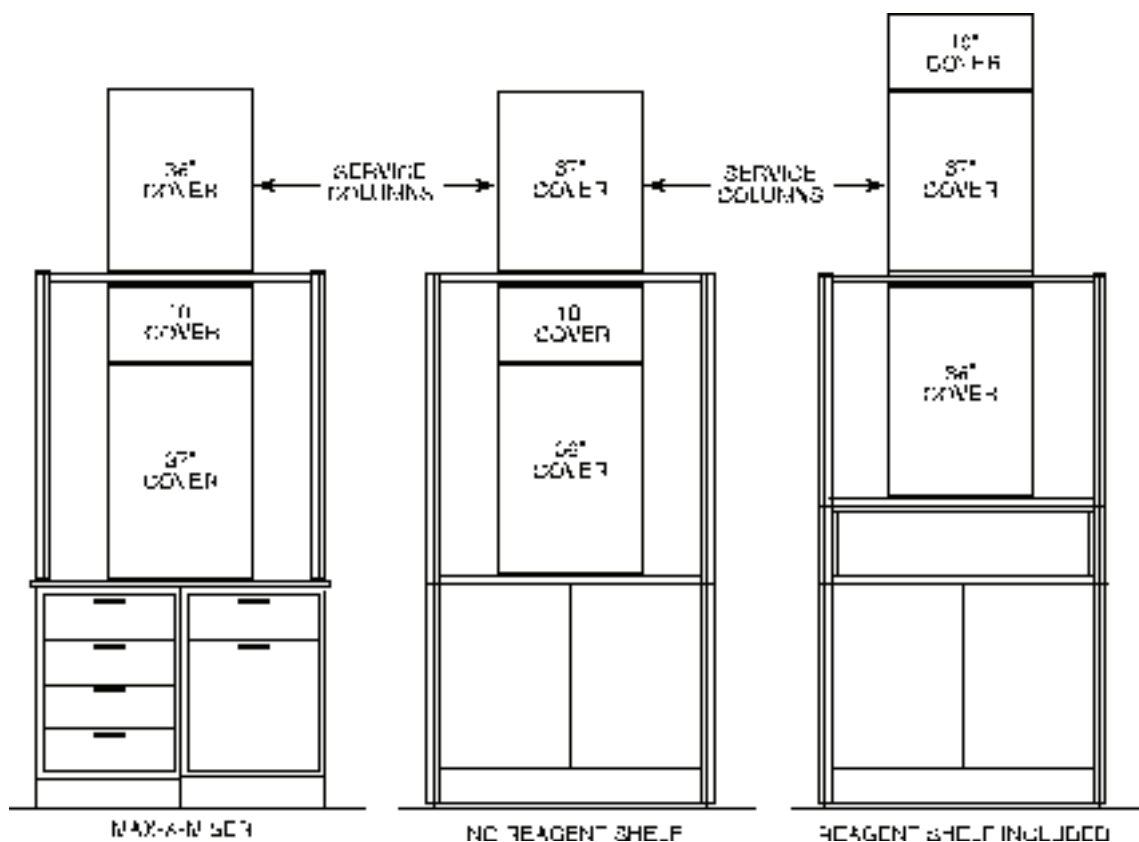
*Figure 5*

# ATTACHING WALL PANEL TO WALL

**Tools Required:**

Phillips screwdriver (No. 2 & 3 tip).
9/16" Combination wrench.
Socket set with 9/16" socket.
Hammer.
1/2" Masonry drill bit.
1/2" Drill motor.

**Hardware Included:**

1 - 3/8-16 x 3" HHCS, Gr. 5.
3 - 3/8-16 Nut.
2 - Riser brackets.
4 - No. 12 x 1/2" PPHSMS.
2 - Floor clamps.
2 - "Rawl" bolts.
2 - 3/8-16 x 4-1/2" HHCS, Gr. 5.
2 - Riser caps.
4 - 1/4-20 x 1/2" PPHMS.
4 - Hole plugs.
2 - Lock plates.

**Note: This wall panel is shipped disassembled from the factory.**

1. Place the components on a clean padded area on the floor.

2. Place one of the wall mount rails between the two risers and fasten with 1/4-20 x 1/2" PPHMS into riser brackets.

3. Secure the other two wall mount rails and support brackets to the two risers with No. 12 x 1/2" PPHSMS. The lower wall mount rail is placed at the lowest screw hole position on the risers. Match the remaining holes in the support brackets with the holes in the two risers. Attach the remaining wall mount rail, support brackets to the risers.

4. Level and plumb the wall panel to the wall. Secure to the wall with proper anchors.

**Note: If two or more wall panels are of the same height and placed side by side, insert 3/8" bolts through risers before securing to wall.**

5. Anchor the floor mounting clamps to the floor.

6. Attach the floor clamps to the risers with lock plates, 3/8" x 4-1/2" HHCS, Gr. 5, and 3/8" nuts.

**Note: If no electrical is required, skip to step 10.**

7. Place two electrical support plates into the electrical support channel.
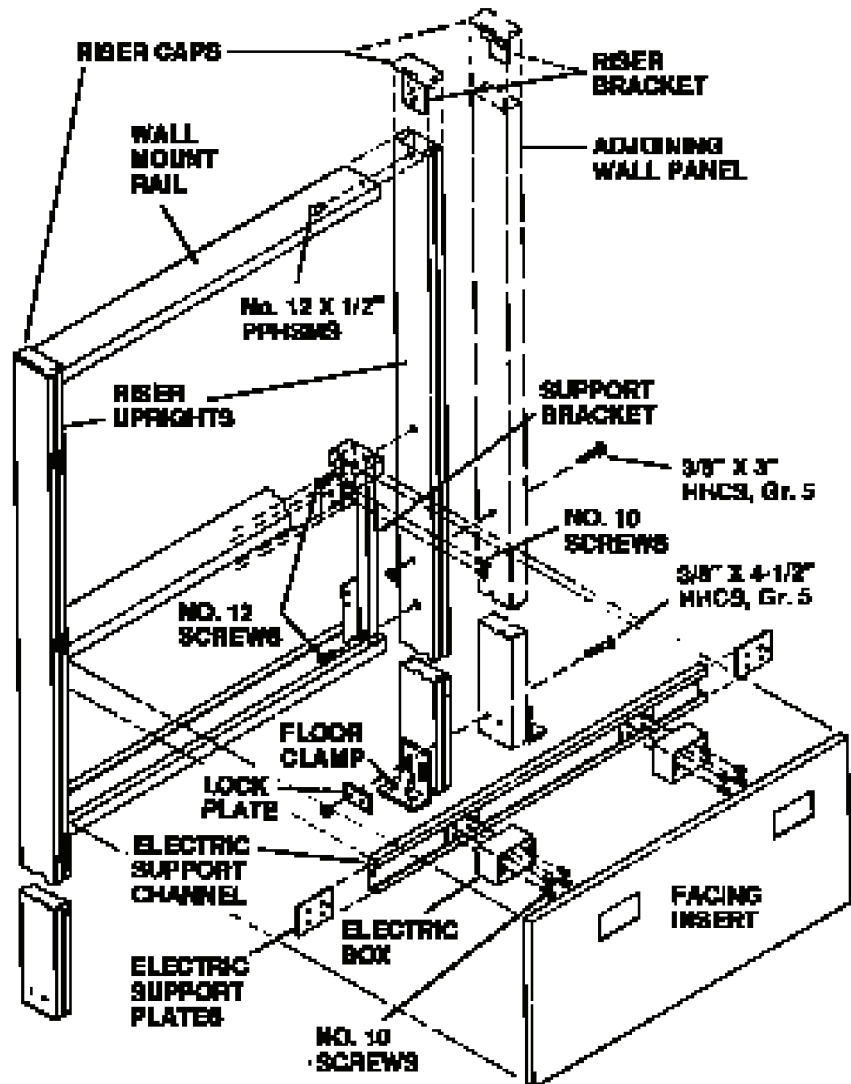


*Figure 1*

# ATTACHING WALL PANEL TO WALL (Continued)

**Refer to Figure 2.**

8. Place the electrical support channel behind the longer of two flanges of the support brackets. Match the holes of the support plate to the holes of support brackets. Secure the channel and support plates to the support bracket with #10 x 5/8" PPHSMS. See Figure 2.

**Note: For additional support of the electrical channel, secure to wall with proper anchors and shims.**

9. Place the remaining support plates into the electrical support channel. Secure the electrical box loosely to the support plate with #10 x 5/8" PPHSMS. Slide the box to the correct location of the matching hole cutout in facing insert. Tighten screws. See Figure 1.

10. Attach facing insert by pressing firmly over dual lock fasteners. See Figure 1.

11. Attach riser caps by pressing firmly onto end of riser.
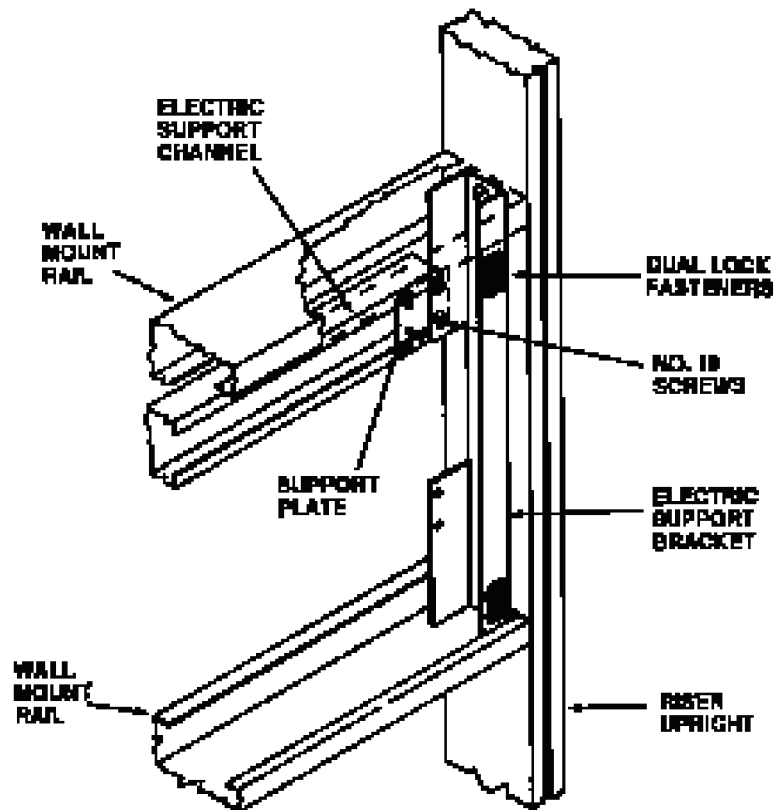


*Figure 2*

# INSTALLATION OF BASE MOLDING SUPPORT

1. Secure the electrical support channel to the wall as shown in Figure 3 for proper dimensions .

2. Make the number of 2-1/4" by 4.00" cutouts in the enclosure per job specification. See Figure 4 for height location of holes.

3. Place the support plate into the channel. Secure the electrical box loosely to the support plate with #10 x 5/8" PPHSMS. Slide the box to the correct location of the matching hole cutout in the enclosure. Tighten screws.

4. See instructions for "Attaching Base Covers to Wall Mounted Panels", Page 50.
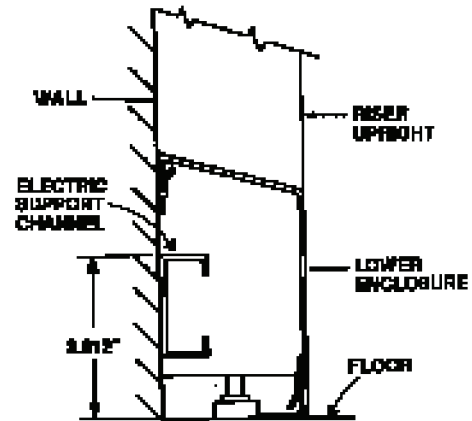


*Figure 3*
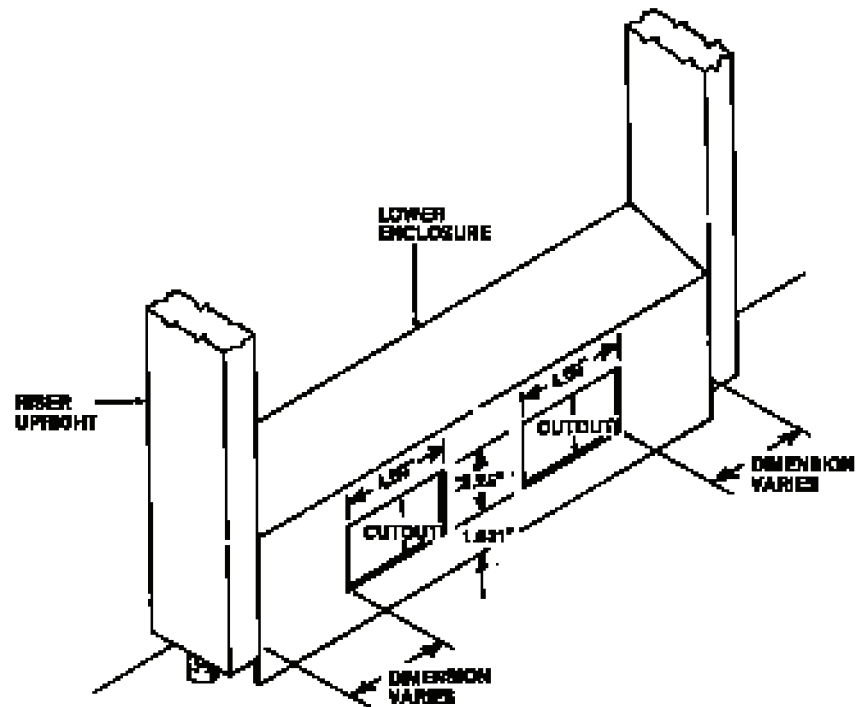


*Figure 4*

# ATTACHING UPPER ISLAND PANEL WITH INSERTS TO LOWER ISLAND PANEL
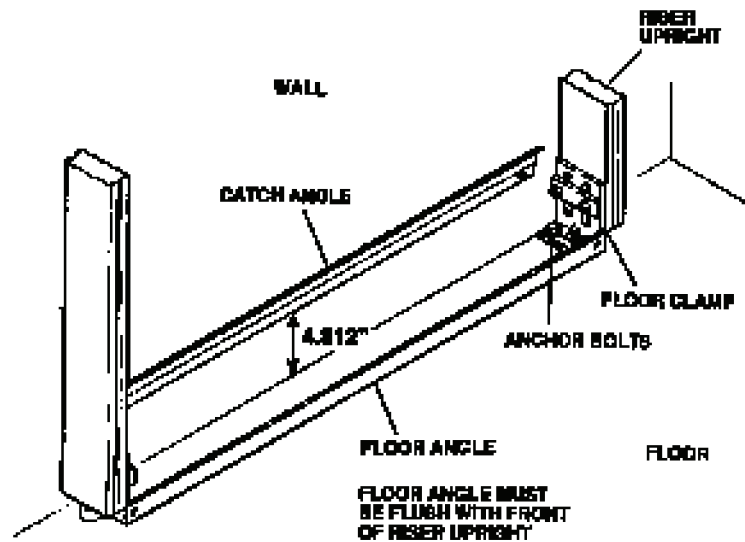
**Tool Required:**
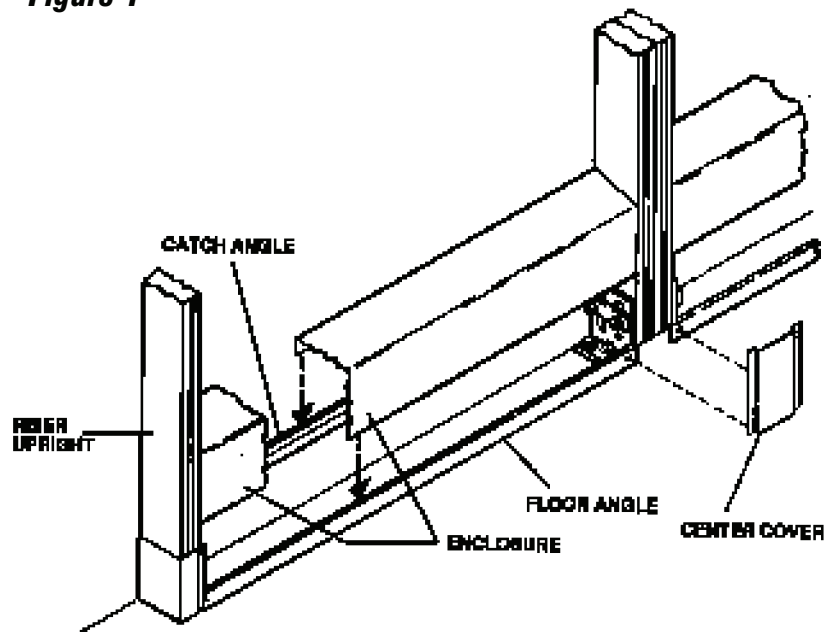
9/16" Wrench.

**Refer to Figure 1:**

1. Loosen anchor bolts on floor clamp.

2. Slide floor angle between floor and floor clamp. Adjust floor angle so vertical flange is flush with front surface of riser. Using proper anchors or adhesive, secure angle to floor.

3. Tighten anchor bolts on floor clamp.

4. Position catch angle on wall. Center catch angle between risers and 4.812" above floor. Using proper anchors, secure angle to wall.

**Refer to Figure 2:**

5. Place the end covers and center covers over the risers. Slide enclosure down over the covers and engage catch angle on wall and floor angle.



*Figure 1*



*Figure 2*

Dimensions are nominal and illustrations and specifications are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

## Attaching Upper Island Panel with Inserts to Lower Island Panel

**Tools Required:**

Torque Wrench.
Phillips screwdriver with No. 2 & 3 tips.
5/16" Socket hex bit.
Facing insert removal tool.

**Hardware Included:**

Bag assembly consisting of:
2   Inner jump connectors.
2   Outer jump connectors.
4   3/8-16 x 5/8" SHCS.
2   3/8-16 x 1-1/8" SHCS.
1   3/8-16 x 3" HHCS, Gr. 5.
1   3/8-16 Nut.
2   Hole plugs.
2   Riser clips.
8   12 x 1/2" PPHSMS.

1. Remove facing inserts from lower island panel with removal tool. Place the inserts in an area protected from damage.

**Refer to Figure 1:**

2. Remove No. 10 x 3/4" PPHSMS that hold laminate top to island panel and remove top from island panel.

3. Remove riser caps from lower island panel and save for later use.

4. Remove 3/8-16 x 1-1/8" SHCS from riser brackets and pull out riser brackets from lower island panel. Save components for later use.
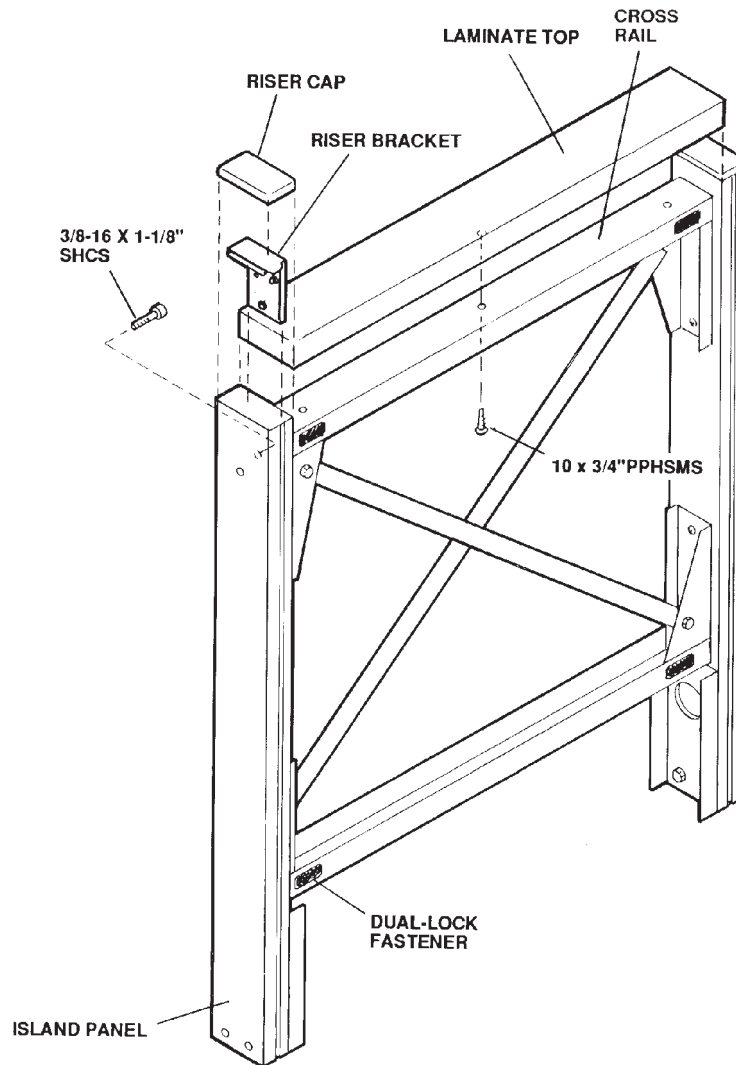


*Figure 1*

# MAX/Lab ®

## *Attaching Upper Island Panel*
## *with Inserts to Lower Island Panel*

**Refer to Figure 2:**

5.  Insert the jump connector halves into the risers in the lower island panel and loosely hold in place with the 3/8-16 x 1-1/8" SHCS.

6.  Slip the upper riser sections over the jump connectors and loosely hold in place with the 3/8-16 x 5/8" SHCS.

7.  Slip the riser brackets into the top of the upper risers; position the top cross rail between the risers; and attach using the No. 12 x 1/2" PPHSMS.

8.  Torque all 3/8-16 SHCS in the jump connectors to 20-25 ft. lbs.

9.  Attach riser caps by pressing firmly into top end of upper riser.

10. Attach riser clips to upper risers using no. 12 x 1/2" PPHSMS.

11. Attach facing inserts on lower island panel by pressing firmly over Dual-Locks.

12. Attach facing inserts on upper island panel by inserting into top cross rail and pressing firmly over Dual-Locks.
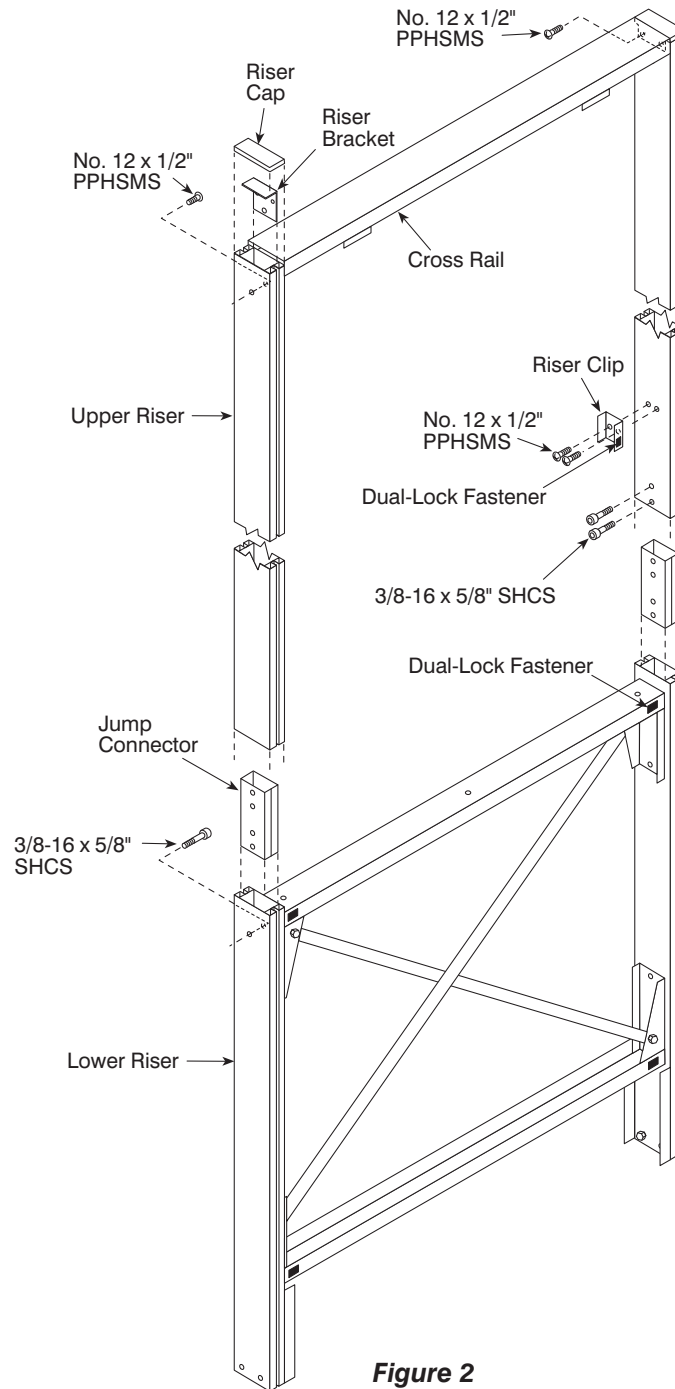


No. 12 x 1/2" PPHSMS

Riser Cap

Riser Bracket

No. 12 x 1/2" PPHSMS

Cross Rail

Riser Clip

Upper Riser

No. 12 x 1/2" PPHSMS

Dual-Lock Fastener

3/8-16 x 5/8" SHCS

Dual-Lock Fastener

Jump Connector

3/8-16 x 5/8" SHCS

Lower Riser

*Figure 2*

## Tools Required:

Torque Wrench.
Phillips screwdriver with No. 2 & 3 tips.
5/16" Socket hex bit.
Facing insert removal tool.

## Hardware Included:

Bag assembly consisting of:
- 4 No. 12 x 1/2" PPHSMS.
- 2 Inner jump connectors.
- 2 Outer jump connectors.
- 4 3/8-16 x 5/8" SHCS.
- 2 3/8-16 x 1-1/8" SHCS.
- 1 3/8-16 x 3" HHCS, Gr. 5.
- 1 3/8-16 Nut.
- 2 3/8" Hole plugs.
- 4 3/16" Hole plugs.
- 4 Socket screw caps.
- 3 10 x 5/8" PPHSMS.

**Refer to page 51 and 52,**
"*Attaching Upper Island panel with Inserts to Lower Island panel*",
**Steps 1 through 9:**

1. Attach upper cover to top cross rail with No. 10 x 5/8" PPHSMS.

2. Attach socket screw caps by inserting tabs into head of 3/8-16 x 5/8" SHCS.

3. Attach facing inserts on lower island panel by pressing firmly over Dual-Lock fasteners.
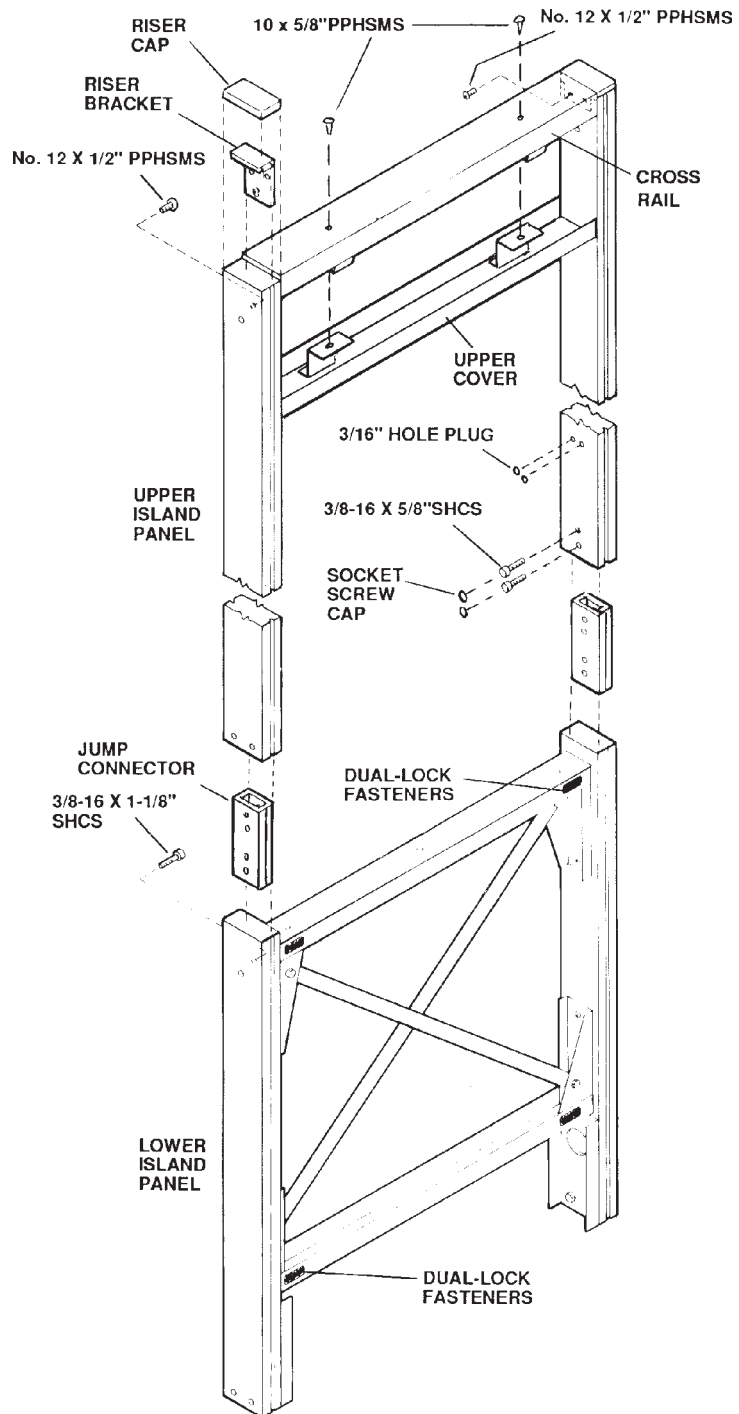


*Figure 1*

# MAX/Lab ®

## *Attaching Adjoining Island Panels*

**Tools Required:**

9/16" Combination Wrench.
Socket set with 9/16" socket.
Facing insert removal tool.

1. Remove the facing inserts from the island panel with the removal tool. Place the inserts in an area protected from damage.

2. Remove the No. 10 x 3/4" PPHSMS attaching base covers to island panel. Place covers in an area protected from damage.

**Note:** The facing inserts and base covers are not attached to the island panel when shipped from the factory.

3. Fasten the island panels together at the base, midpoint and top using 3/8-16 x 3" HHCS, Gr. 5.

4. Adjust levelers after 3/8" screws are tightened.

5. Attach base covers to lower island panel using No. 10 x 3/4" PPHSMS.

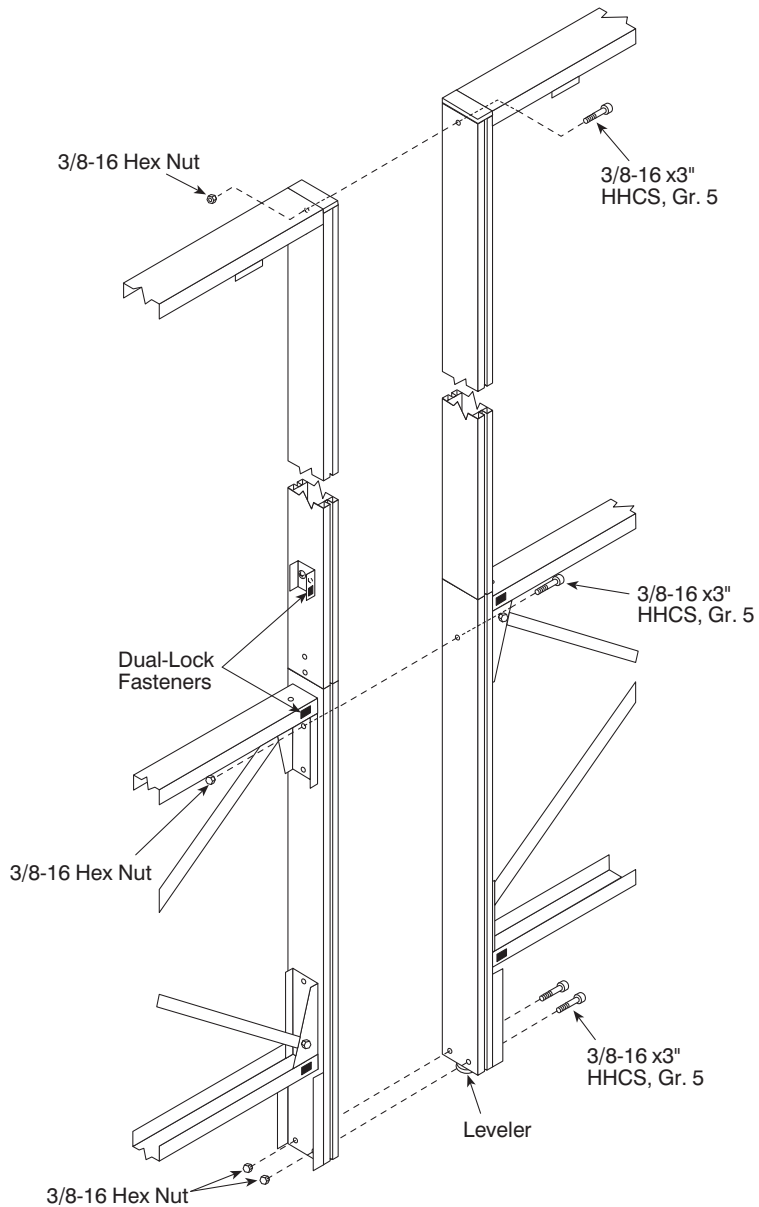6. Replace facing inserts by pressing firmly over Dual-Lock Fasteners.



*Figure 1*

## Attaching Corner Post to Panel or Core

**Tools Required:**

9/16" & 1/2" Combination wrenches.

Socket set with 9/16" & 1/2" sockets.

Facing insert removal tool.

1. Remove the facing inserts from panels or cores with the removal tool. Place the inserts in an area protected from damage.

2. Remove the No. 10 x 3/4" PPHSMS attaching base covers to island panel. Place covers in an area protected from damage.

**Note:** The facing inserts and base covers are not attached to the panels and cores when shipped from the factory.
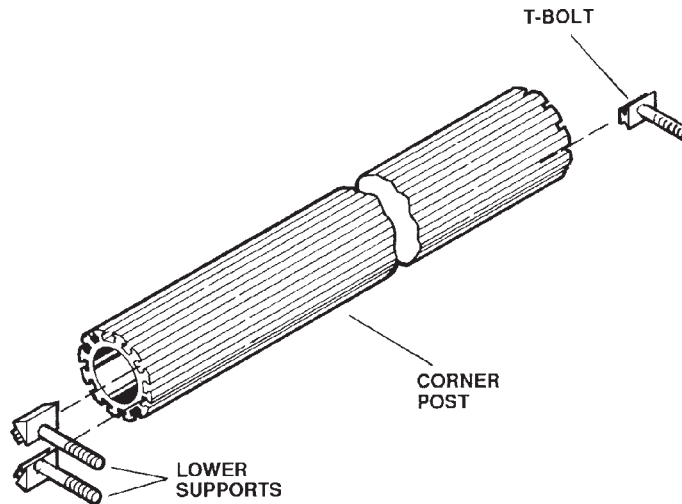
**Refer to Figure 1:**

3. Slide two lower supports into slots at base of corner post with threaded stems parallel to each other and a spacing of one slot between the supports.

4. Slide the T-bolt into a slot at the top of the post that is centered between the lower supports.

**Refer to Figure 2:**

5. To ease installation, temporarily tape the lower supports and T-bolt in place to prevent sliding.
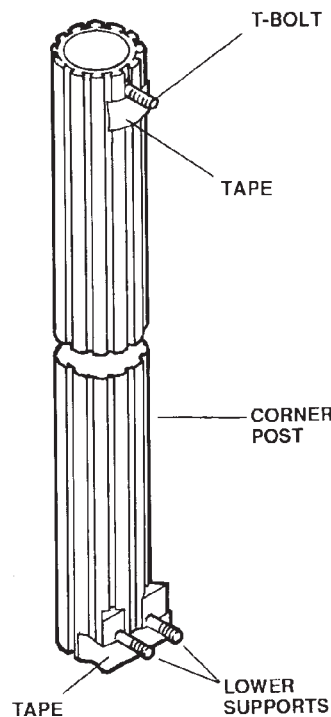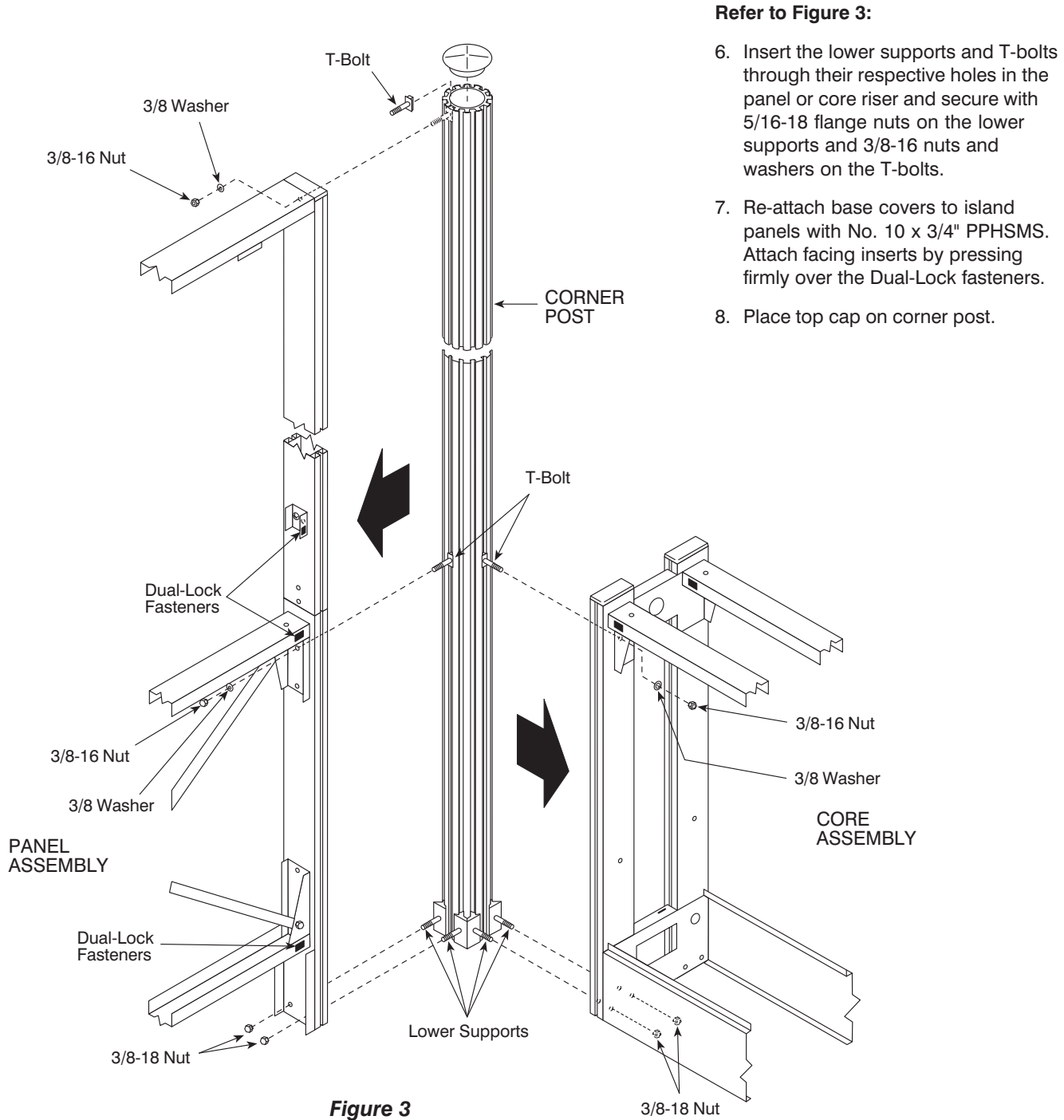


*Figure 1*



*Figure 2*

# MAX/Lab ®

## *Attaching Corner Post to Panel or Core (Continued)*

**Refer to Figure 3:**

6. Insert the lower supports and T-bolts through their respective holes in the panel or core riser and secure with 5/16-18 flange nuts on the lower supports and 3/8-16 nuts and washers on the T-bolts.

7. Re-attach base covers to island panels with No. 10 x 3/4" PPHSMS. Attach facing inserts by pressing firmly over the Dual-Lock fasteners.

8. Place top cap on corner post.

T-Bolt

3/8 Washer

3/8-16 Nut

CORNER POST

T-Bolt

Dual-Lock Fasteners

3/8-16 Nut

3/8 Washer

3/8-16 Nut

3/8 Washer

CORE ASSEMBLY

PANEL ASSEMBLY

Dual-Lock Fasteners

3/8-18 Nut

Lower Supports

3/8-18 Nut

**Figure 3**

# Installing Corner Filler - 2-Way

**Tools Required:**

9/16" wrench.

**Hardware Included:**

| Height | | |
|---|---|---|
| **36"** | **84"** | |
| 6 | 8 | 3/8-16 x 2" HHCS, Gr. 5. |
| 4 | 4 | 3/8-16 x 2-1/2" HHCS, Gr. 5. |
| 6 | 8 | 3/8" x 7/8" Washer. |

1. Remove facing inserts, modesty panels and base covers from island panels.

**Refer to Figure 1**

2. Loosely assemble brackets to one of the island panel uprights using the appropriate length of 3/8" bolts.

3. Position the second island panel 90° to the first island panel and loosely assemble it to the brackets using the appropriate length of 3/8" bolts.

4. Align the two island panels checking for squareness and tighten all 3/8" bolts.

**Refer to Figure 2**

5. Position filler panel so that the tabs on the back side of the filler panel are over the slots in the brackets. Slide filler panel down to insert tabs into slots.
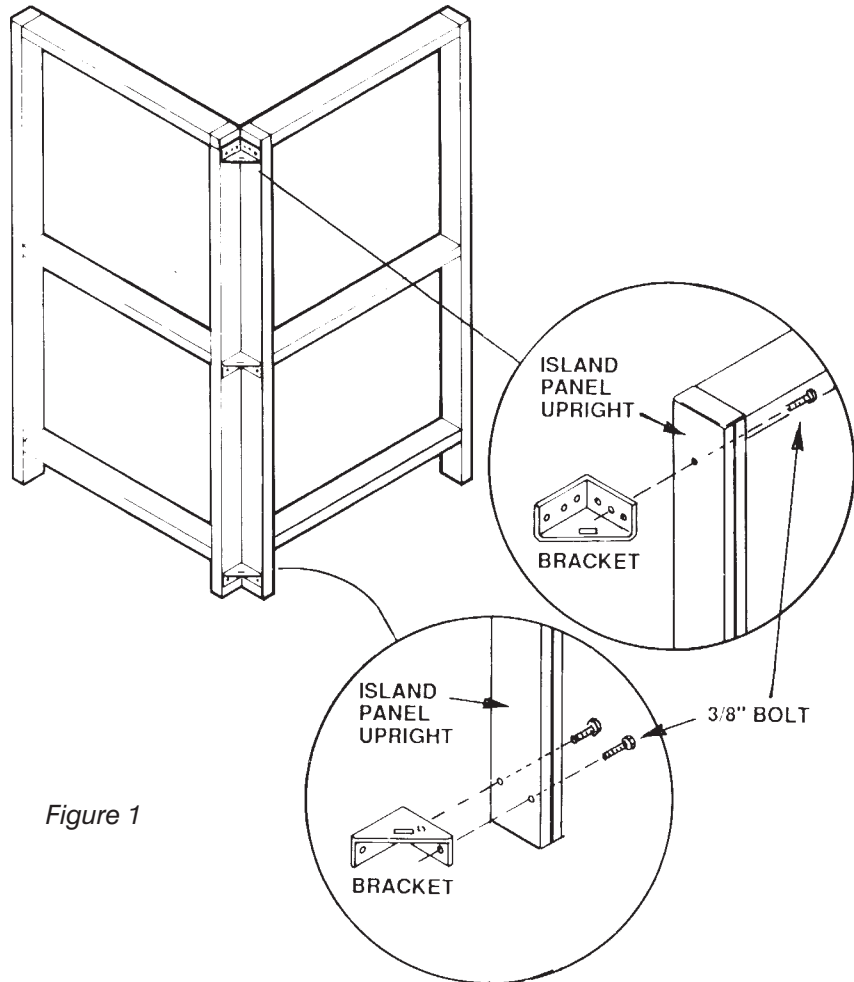
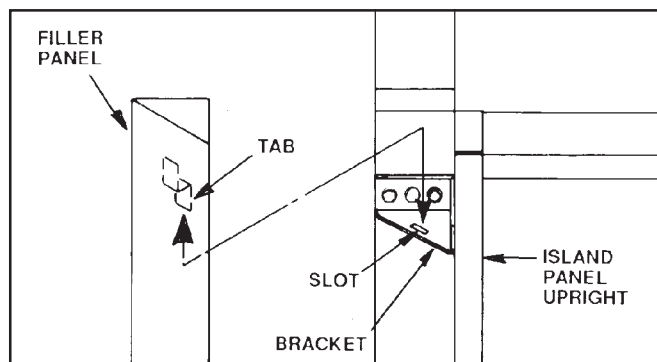6. Adjust levelers on island panels to correct height.



*Figure 1*



*Figure 2*

# MAX/Lab ®

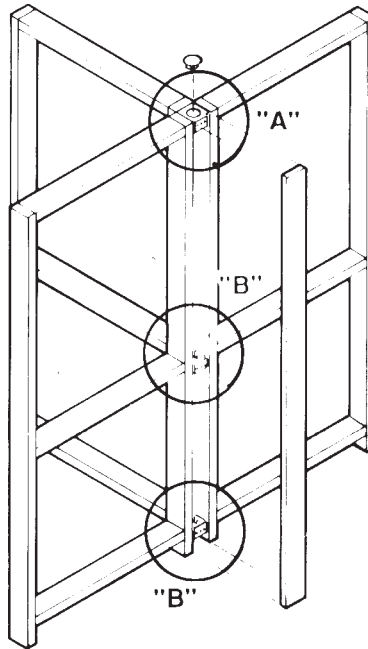## Installing Corner Filler - 3/4-Way

**Tools Required:**

   9/16" Wrench

**Hardware Included:**

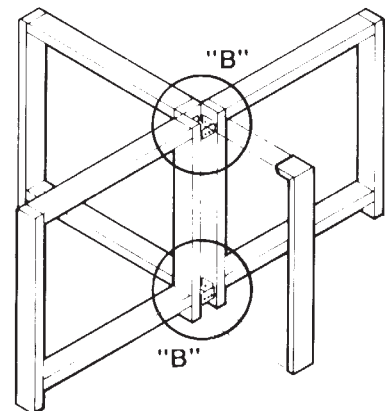| Height | | |
|---|---|---|
| 36" | 84" | |
| 9 | 12 | 3/8-16 x 2" HHCS, Gr. 5. |
| 6 | 6 | 3/8-16 x 2-1/2" HHCS, Gr. 5. |
| 4 | 12 | 3/8" x 7/8" Washer. |

1. Remove facing inserts, modesty panels and base covers from island panels.

2. Loosely assembly brackets to one of the island panel uprights using the appropriate length of 3/8" bolts. See Illustration "A" and/or "B".

3. Position the remaining two or three island panels against the brackets on the first island panel and loosely assemble them to the brackets using the appropriate length of 3/8" bolts.

4. Align all the island panels checking for squareness and tighten all the 3/8" bolts.



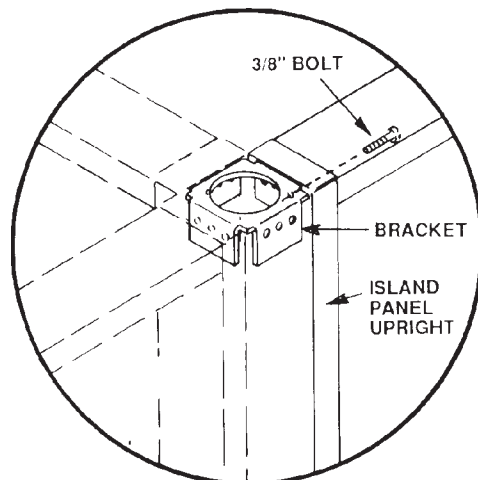*84" HIGH FILLER PANEL*

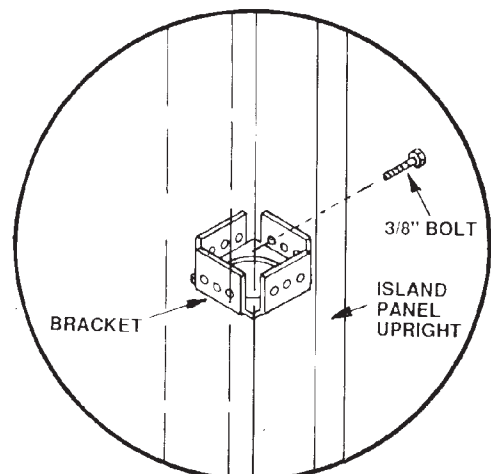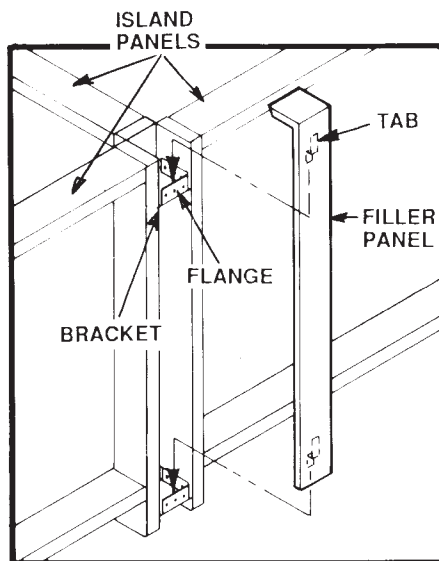*36" HIGH FILLER PANEL*



*ILLUSTRATION "A"*
*84" HEIGHT*

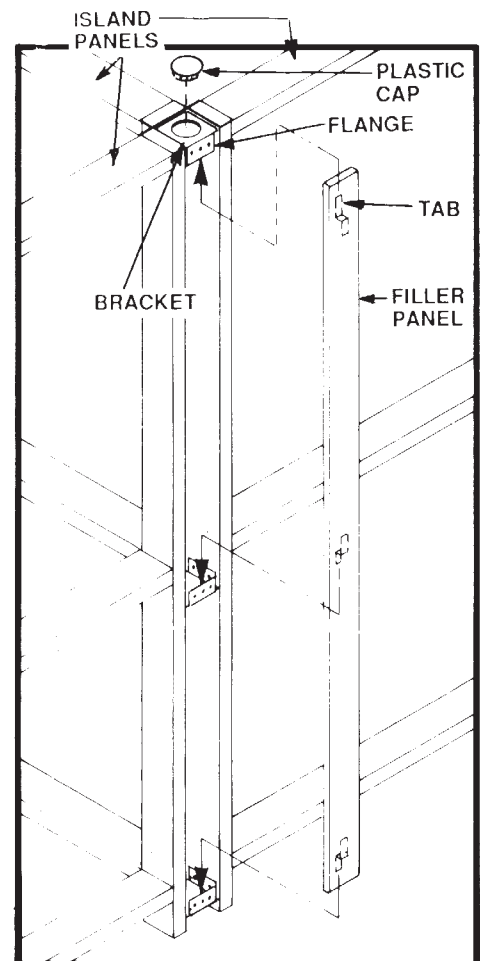*ILLUSTRATION "B"*
*BASE OR 36" HEIGHT*

## *Installing Corner Filler - 3/4-Way*

5.  For a 36" high filler panel, position the filler panel so that the tabs on the filler panel are over the brackets. Slide the filler panel down to clip the tabs over the flanges of the brackets. See Illustration "C".

6.  For an 84" high filler panel, insert the upper tab on the filler panel over the flange on the upper bracket. Filler panel must be tilted out slightly at its base to do this. Push filler panel in firmly against panel uprights and slide filler down to engage lower tabs on the filler over the flanges on the two lower brackets. Snap the plastic cap into the hole in the upper bracket. See Illustration "D".

7.  Adjust levelers on island panels to correct height.



**ILLUSTRATION "C"**
**Attaching 36" High Filler Panel to**
**Assembled Bracket/Island Panel**



**ILLUSTRATION "D"**
**Attaching 84" High Filler Panel to**
**Assembled Bracket/Island Panel**

# MAX/Lab ®

## Installing Structural Table to Island Panel or Extended Frame

**Tools Required:**

3/16" Allen wrench or 3/16" socket hex bit.
Phillips screwdriver (#2 and #3 tips).
Flat-blade screwdriver.
Rubber mallet.
1/2" Combination wrench.

**Note:** Island panels and extended frames must be adjusted at least 1-1/4" above floor level to attach structural table. Whenever possible, attach tables to individual panels and frames before assembling into runs.

**Refer to Figure 1**

1. Detach top from table frame by removing the rear No. 10 x l" screws and loosening the front No. 10 x l" screws from underneath and disengaging top clamps by turning them to the side.
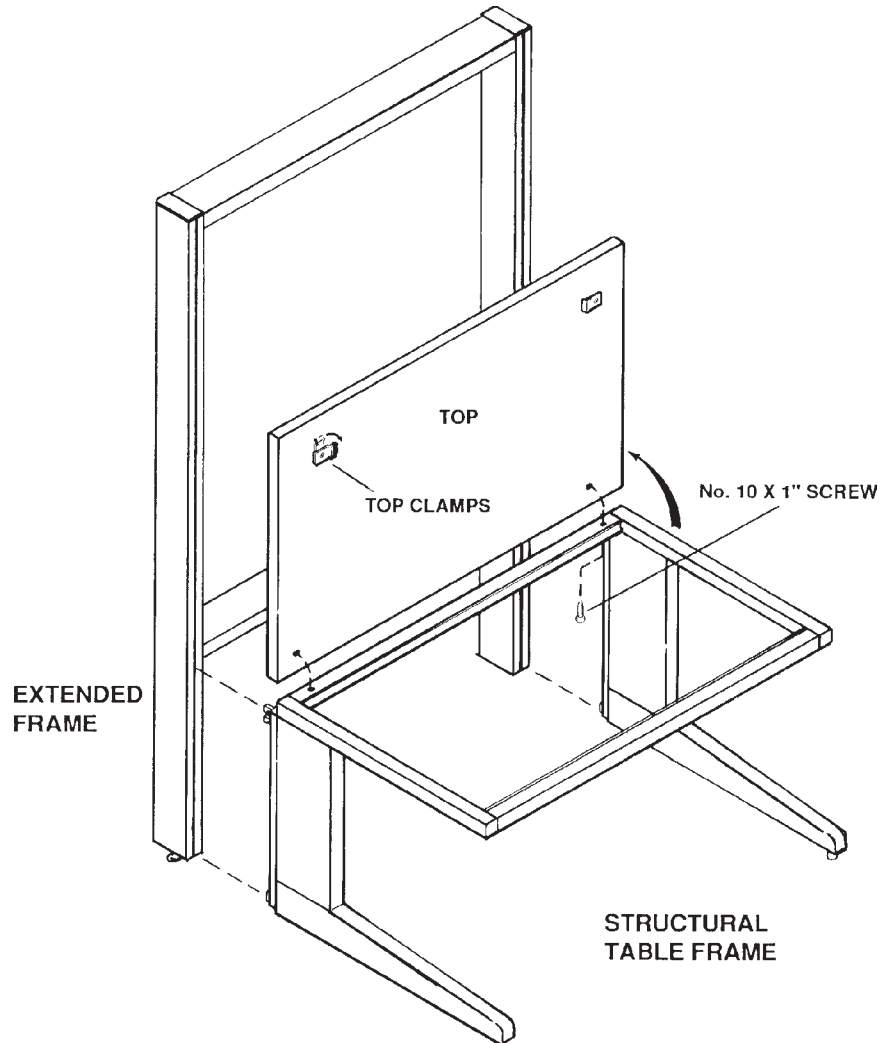


Figure 1

# Installing Structural Table to Island Panel or Extended Frame

**Refer to Figure 2**

2. Remove plastic cap at back of leg, exposing 1/4-20 x 2" SHCS. Loosen cap screw with Allen wrench or socket hex bit until it is almost free, allowing clamp to slide vertically. See exploded view.

Note: Front foot levelers of structural table should be all the way in.

3. Table is attached to panel or frame by performing two steps simultaneously:

   a. Insert hook at base of leg into slot at bottom of riser extrusion.

   b. Move clamp at top of leg upward and hook it into highest matching slot in riser extrusion.

**Refer to Figure 3:**

**Note:** Slots in riser extrusion are spaced at l" intervals. If clamp does not engage slots, tap it into place using flat-blade screwdriver and rubber mallet. Also place l" wooden blocks under heel of foot to prevent bottom hook from disengaging.

4. Tighten 1/4-20 x 2" SHCS. Clamp and bottom hook should draw the two products together. If table is loose after tightening cap screw, clamp was inserted one slot too low; repeat Step 3, above.

5. Level table by adjusting levelers at front of feet.

6. To reattach top, position it on table frame, engage top clamps, and tighten No. 10 x l" screws .
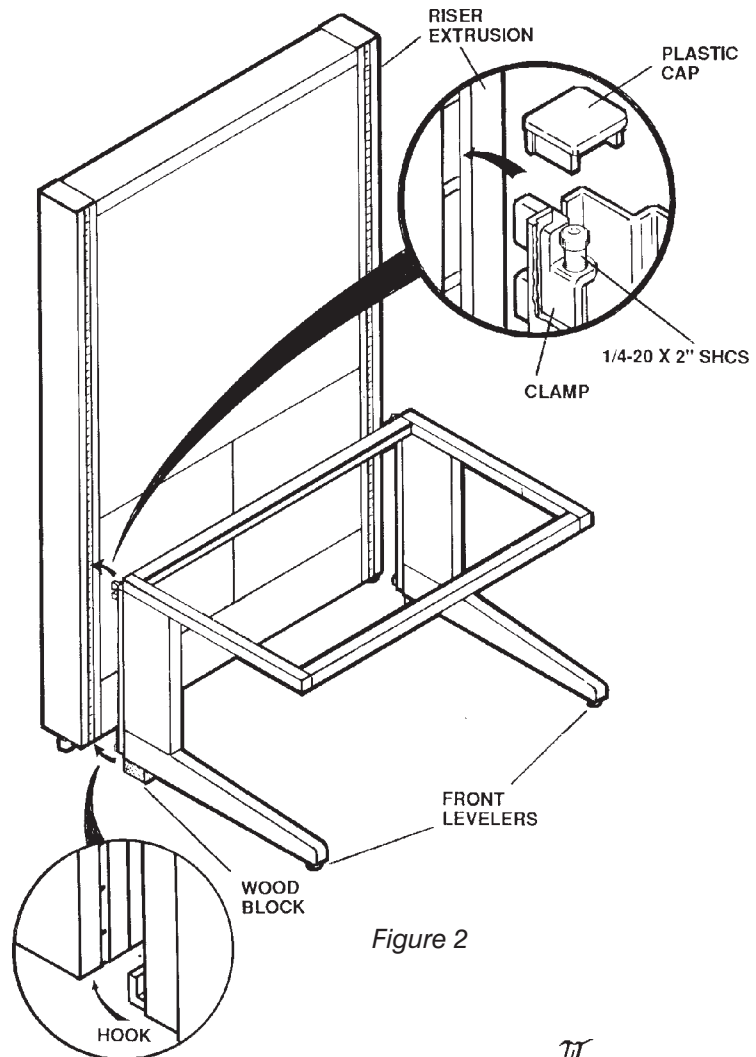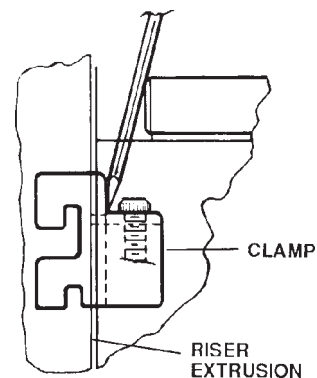


Figure 2



Figure 3

# MAX/Lab ®

## Attaching CantileverTable to Panel or Core

**Tools Required:**

Socket set with 1/2" socket.
Phillips screwdriver (#2 and #3
    tips).
Level.
Rubber mallet.
1/2" Combination wrench.

**Hardware Included:**

Bag No. 830531 consisting of:
  1   5/16-18 Flanged nut.
  1   5/16-18 x 3-1/2" HHMS.
  1   16 Gauge washer.
  2   20 Gauge washers.

Hardware No. 830532 consisting of:
  8   Top brackets.
  8   No. 10 x 1" PPHSMS.

**Refer to Figure 1**

1.  Cantilever tables are shipped in two
    parts: Frame and top. All cores and
    panels must be leveled and fully
    assembled before attaching cantil-
    ever frames. Core and panel
    systems should be adjusted 1-1/4"
    minimum off the floor.

2.  Determine overall height from floor
    to table top. Subtract 3" from height
    and mark with line on riser extru-
    sions. The top hook of cantilever leg
    will be inserted at mark. Slots in
    riser extrusion are spaced at 1"
    increments.

3.  Leveler pins, located at bottom of
    cantilever legs should be screwed
    all the way in.

4.  Attach cantilever frame to core by
    inserting hooks into riser extrusion.
    **Note:** To make sure cantilever legs
    are securely hooked to riser, strike
    legs with rubber mallet in a down
    ward direction.

5.  Level cantilever frame (front to back)
    by adjusting leveler pins with 1/2"
    wrench. If pin does not enter slot,
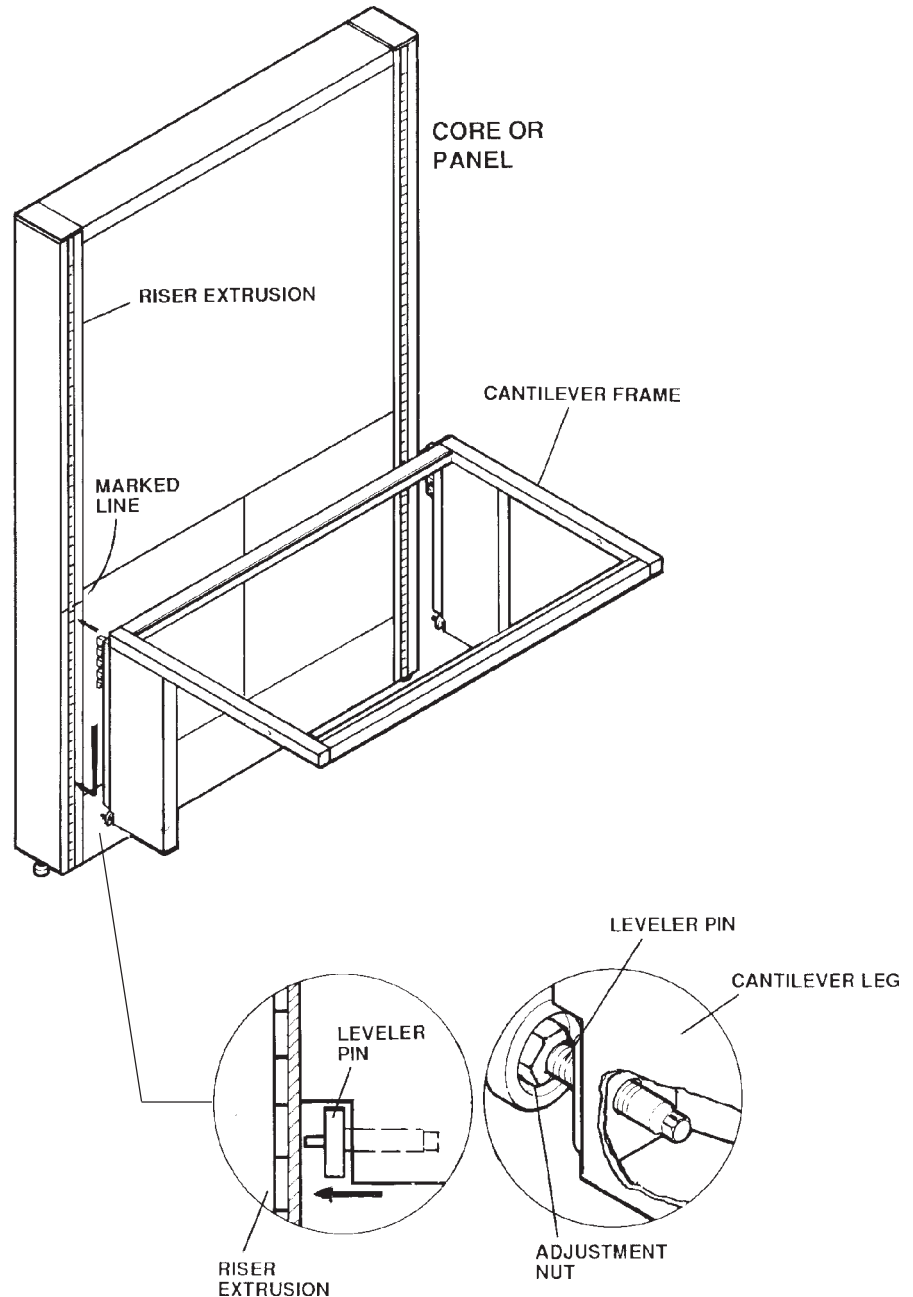    table is not attached correctly. See
    exploded view.



Figure 1

## Attaching CantileverTable to Panel or Core (Continued)

**Refer to Figure 2**

6. When cantilever tables are installed next to each other, at the same height, they must be bolted to gether. Insert a 5/16-18 x 3-1/2" bolt through holes at front of cantilever frames and secure with 5/16-18 nut.

Note: Washers are provided to shim between cantilevered legs if necessary.

**Refer to Figure 3:**

7. Attach top to table frame using top brackets and No. 10 x 1" screws. Top brackets are hooked onto "C" channels at front of table frame. Location and number of clamps to be used is dependent upon number of pre-drilled holes in top.
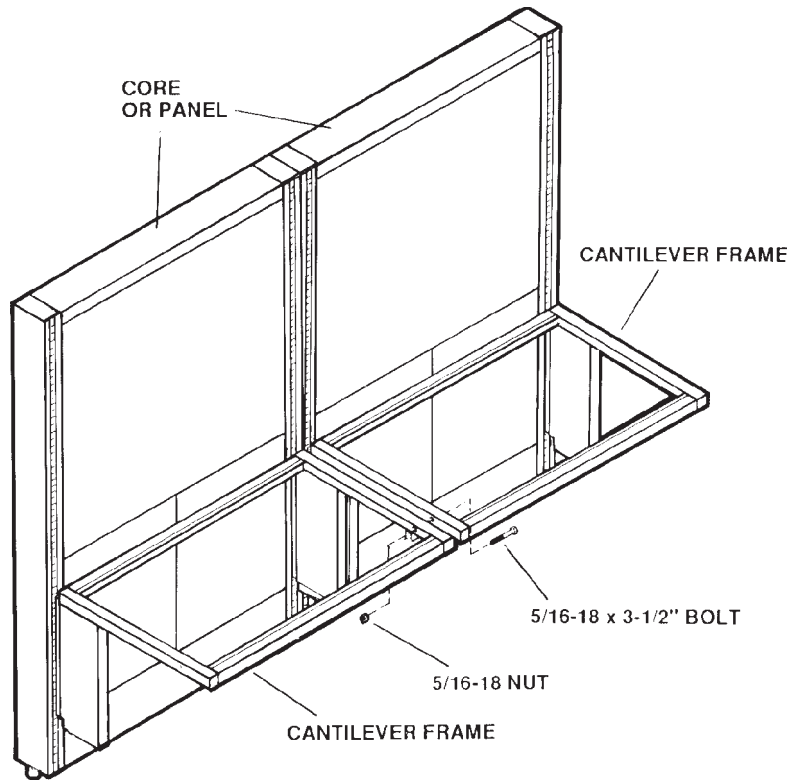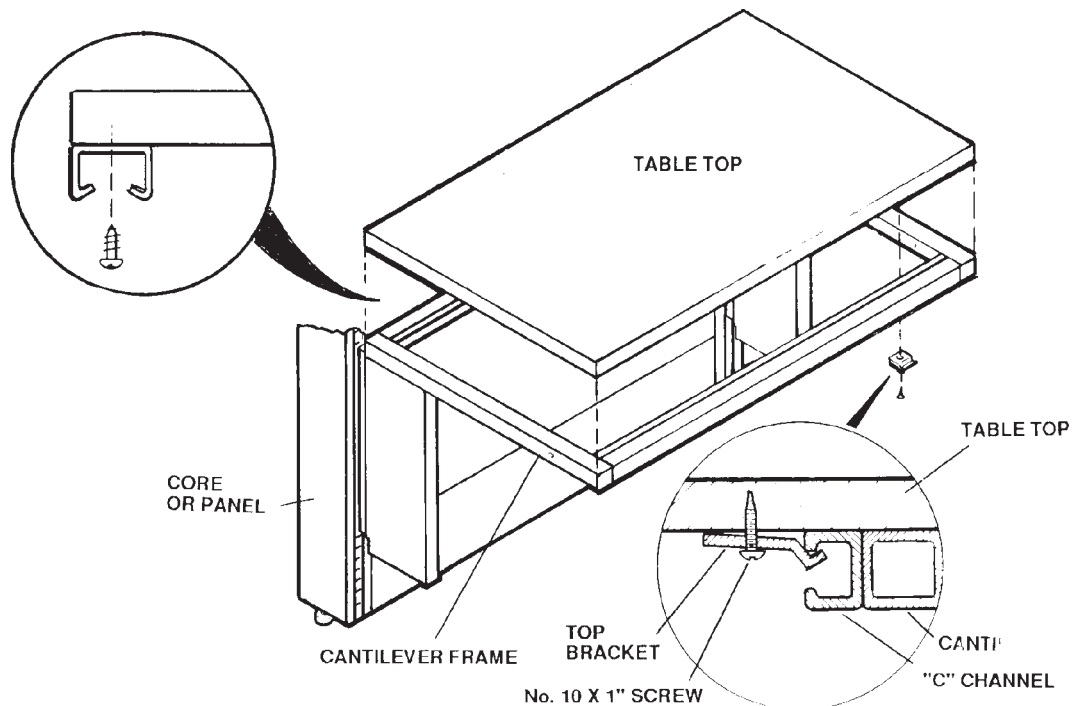


*Figure 2*



*Figure 3*

# MAX/Lab ®

## *Attaching Cantilevered Corner Work Surface (90° and 120°) to Cores or Panels*

**Tools Required:**

1/2" and 7/16" Combination
    wrenches.
Socket set with 1/2" socket.
Level.
Rubber mallet.
Phillips screwdriver with No. 2 & 3
    tips.

**Hard ware Included:**

1 Bag No. 830531, consisting of:
    1   Flange nut, 5/6-18.
    1   HHMS, 5/16-18 x 3-1/2".
    1   Washer, 16-gauge.
    2   Washers, 20-gauge.
    2   Plug buttons, 5/16".

1 Bag No. 830352, consisting of:
    8   Top clamps.
    8   PPHSMS, No. 10 x 1".

1 Bag No. 830502, consisting of:
    4   PPHSMS, No. 10 x 5/8".

**For 90° Corner Work Surface, 29"
deep:**
1 Bag No. 830350, consisting of:
    2   Corner brackets.
    4   HHCS, 1/4-20 x 1/2".
    4   PPHSMS, No. 10 x 5/8".

**For 120° Corner Work Surface:**
1 Bag No. 830651, consisting of:
    2   Corner brackets.
    4   HHCS, 1/4-20 x 1/2".
    4   PPHSMS, No. 10 x 5/8".
    8   PPHSMS, No. 10 x 1".

**Refer to Figure 1:**

1.  Corner work surfaces are shipped
    knocked down. All cores and panels
    must be fully assembled before
    attaching work surfaces. Cores and
    panels must be adjusted 1-1/4"(min)
    off floor.

2.  Determine overall height from floor
    to work surface top. Subtract 3" from
    height and mark with line on riser
    extrusions. Top hook of cantilevered
    leg will be inserted at this mark. Two
    cantilevered legs are used at the
    outside ends, while a corner top
    support is used at back. Slots in
    riser extrusion are spaced at 1"
    increments.

3.  Insert corner top support at same
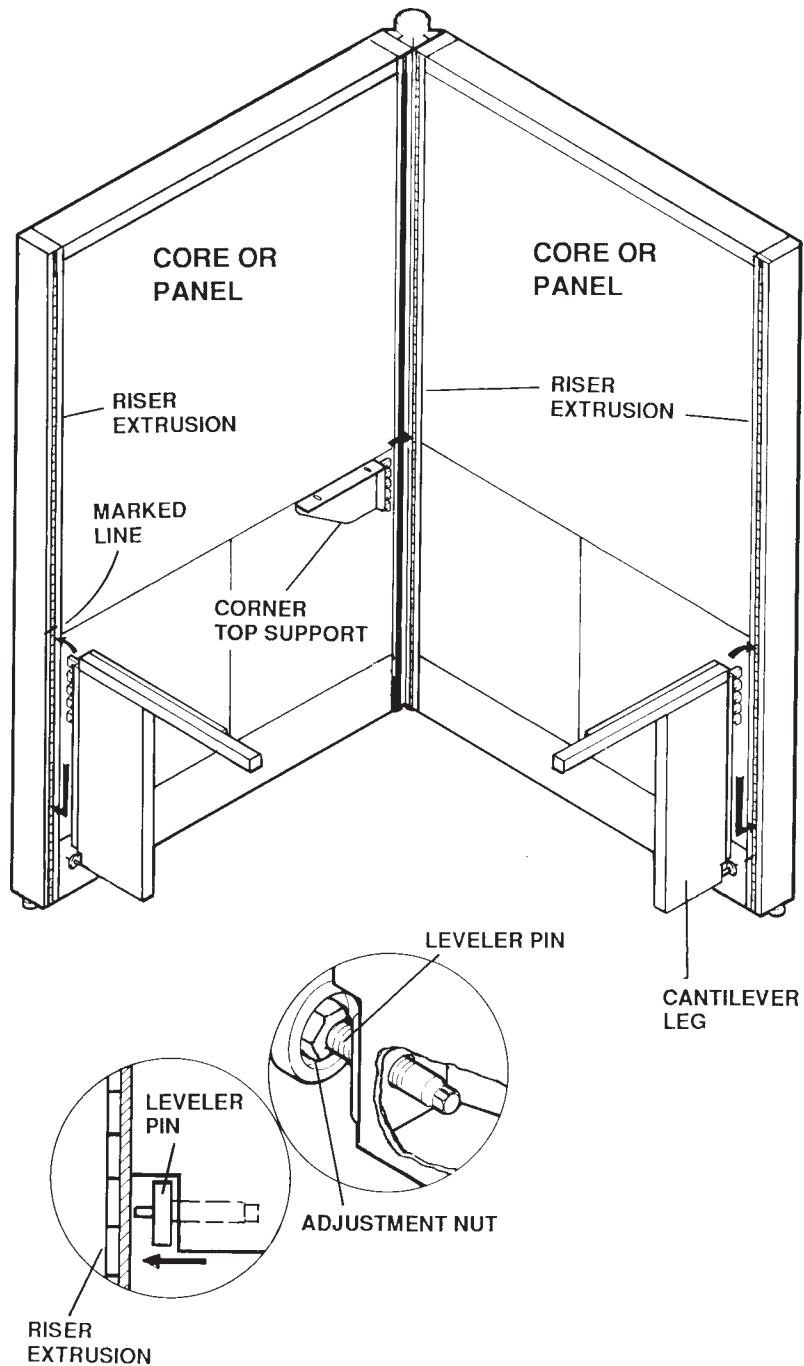    height as cantilevered legs.



*Figure 1*

4. Leve!er pins, located at bottom of cantilevered legs, should be screwed all the way in.

5. Attach cantilevered legs in position by inserting hooks into riser extrusion at marked line.

**Note:** To make sure cantilevered legs are securely hooked to core or panel, strike legs with rubber mallet in a downward direction.

6. Level each cantilevered leg (front to back) by adjusting leveler pin with a 1/2" wrench.

**Note:** Some corner work surfaces come with front rail only. Perform steps 7 and 8 if additional support rail is supplied with corner work surface.

**Refer to Figure 2:**

7. Insert corner bracket into each ouside cantilevered leg by sliding corner bracket into "C" channel from front to back.
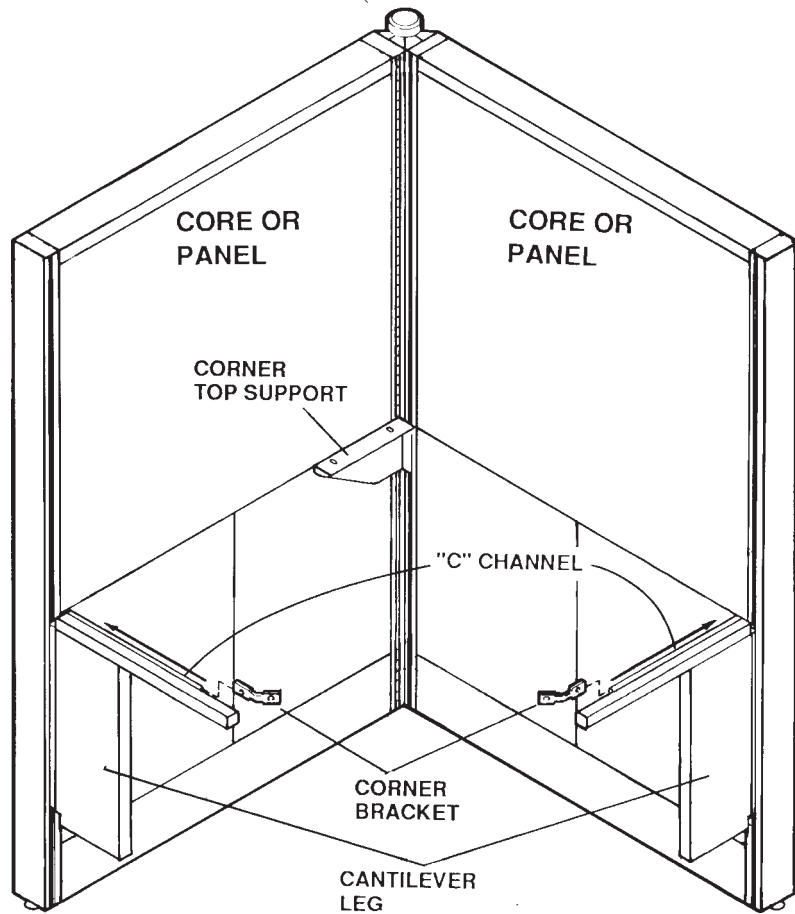


*Figure 2*

# MAX/Lab ®

## *Attaching Cantilevered Corner Work Surface (90° and 120°) to Cores or Panels*

**Refer to Figure 3:**

8.  Insert support rail onto corner brackets. Loosely thread four 1/4-20 x 1/2" HHCS into corner brackets.

See Figure 3 explosion.

9.  Loosely install front rail to both outside cantilevered legs using four 10 x 5/8" PPHSMS.

10. Lay work surface onto cantilevered legs, allowing a 3/4" gap between panels and top. Position ends of top   in a manner in which they are flush with sides of cantilevered legs or adjacent work surfaces.

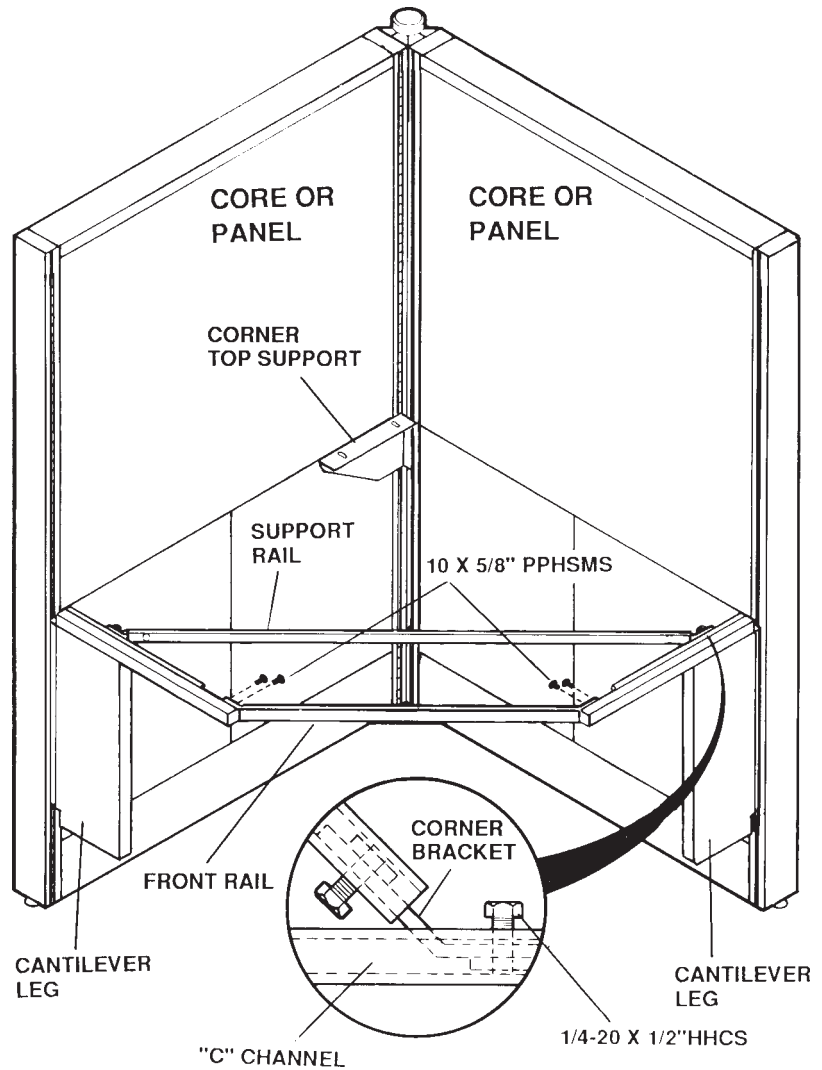11. Center and tighten front and support rails.



CORE OR PANEL

CORE OR PANEL

CORNER TOP SUPPORT

SUPPORT RAIL

10 X 5/8" PPHSMS

FRONT RAIL

CORNER BRACKET

CANTILEVER LEG

CANTILEVER LEG

1/4-20 X 1/2"HHCS

"C" CHANNEL

*Figure 3*

# *Attaching Cantilevered Corner Work Surface (90° and 120°) to Cores or Panels*

**Refer to Figure 4:**

12. When cantilevered work surfaces are installed next to each other at the same height, they must be bolted together. Insert a 5/16-18 x 3-1/2" HHMS through hole at front of each cantilevered leg and secure with 5/16-18 nut.

**Note:** Washers are provided to shim between cantilevered legs if necessary.

13. Attach top to corner work surface frame using top clamps and No. 10 x 1" screws. Top clamps are hooked onto "C" channels on cantilevered legs. Location and number of clamps to be used is dependent upon number of predrilled holes in top.
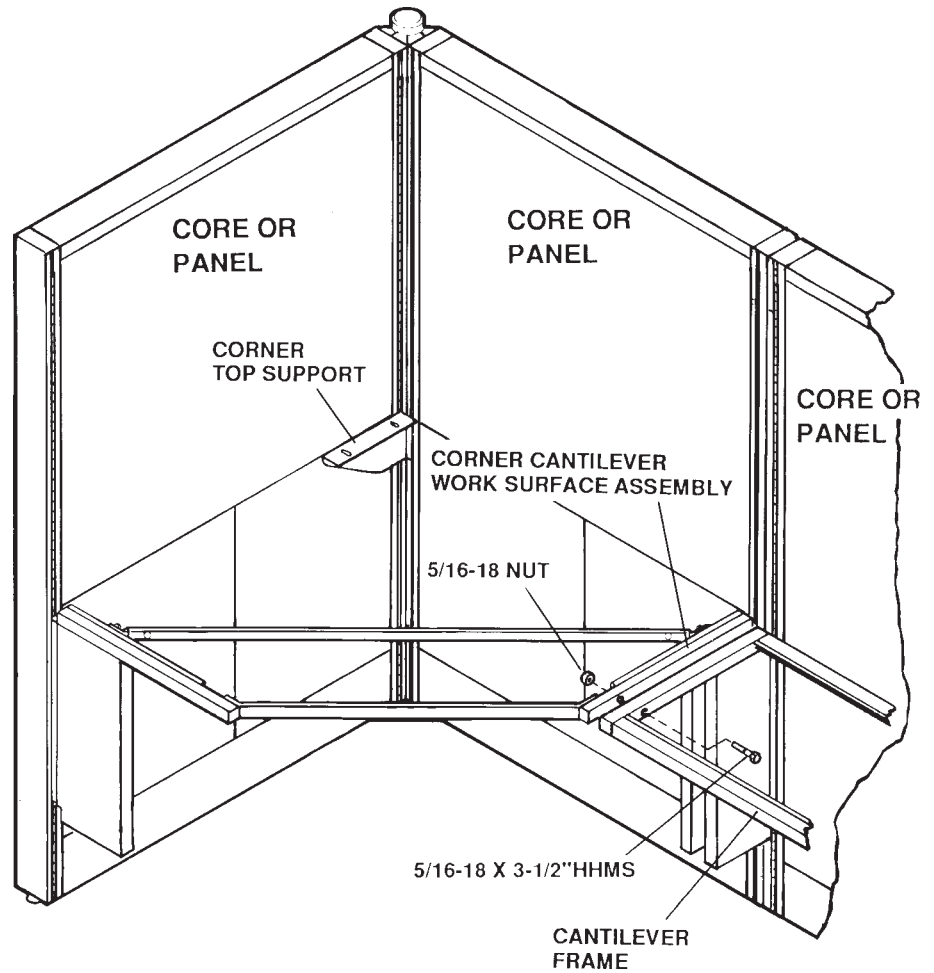


*Figure 4*

# MAX/Lab ®

## *Attaching Structural Corner Table (90°) to Island Panels*

**Tools Required:**

    1/2" and 7/16" Combination
       wrenches.
    Socket set with 1/2" socket.
    Level.
    Rubber mallet.
    Phillips screwdriver with No. 2 & 3
       tips.

**Refer to Figure 1:**

1. All island panels must be fully assembled before attaching tables. Island panels must be adjusted 1-1/4" (min) off floor.

2. Structural corner tables are shipped knocked down. They consist of two table legs with feet placed at outside table edges and corner top support attached in corner.

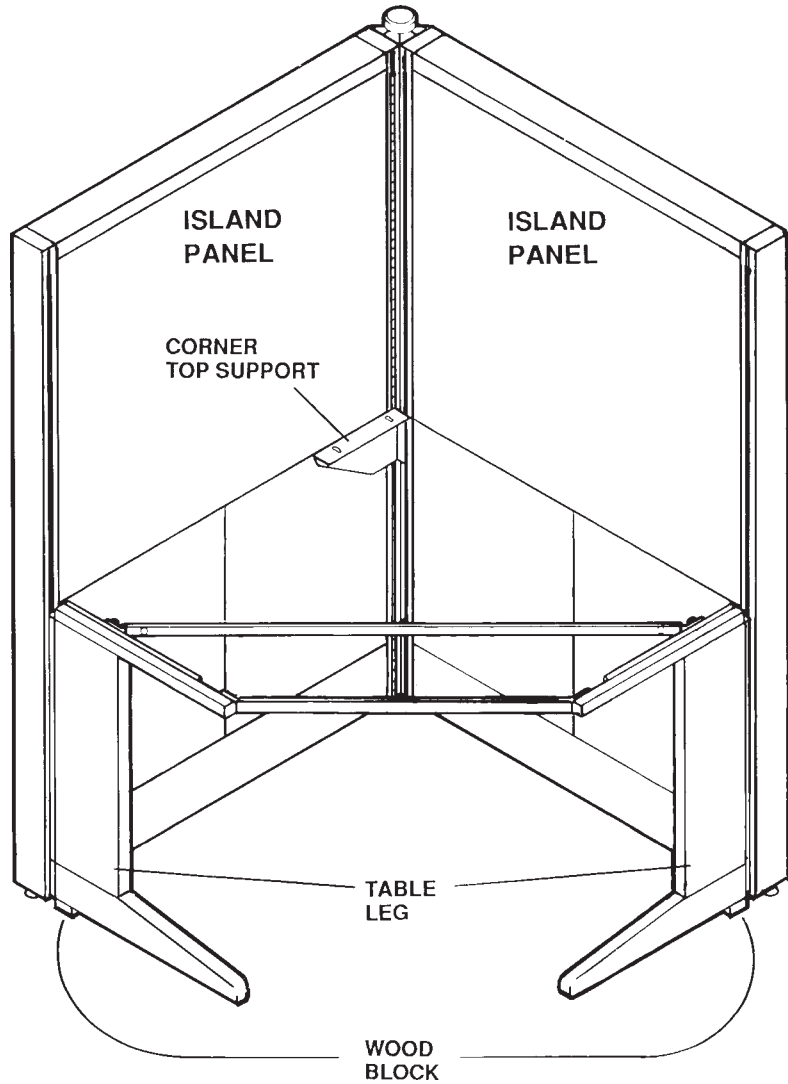3. Attach table legs at their respective positions. See instructions for "*Attaching Structural Table to Island Panel*".



*Figure 1*

68

# Attaching Corner Table Support for Cantilever Work Surface or Supported Structural Table

**Tools Required:**

9/16" & 1/2" Combination Wrench.
Phillips Screwdriver.
Rubber Mallet.

**Hardware Included:**

Product No. 900H135 consisting of:
1 Right Hand Corner Support.
1 Left Hand Corner Support.

**Note:** Front corner supports are used only when work surface is equal to or deeper than side support structure.

| Work Surface Depth | Width of Side Support Structure to be Used |
|---|---|
| 24" | 24" |
| 30" | 24" or 30" |

**Attaching Corner Support to Cantilever Work Surface.**

**Refer to Figures 1 and 2:**

1. Insert hooks of corner support into slots in riser extrusion. (See Figure 1) Corner support should be placed 2.375" below top of work surface. (See Figure 2)

**Note:** Make sure corner support is securely hooked to side support structure by striking with rubber mallet.

2. Attach cantilever work surface to back support structure. Corner support will capture front corner of cantilever frame.
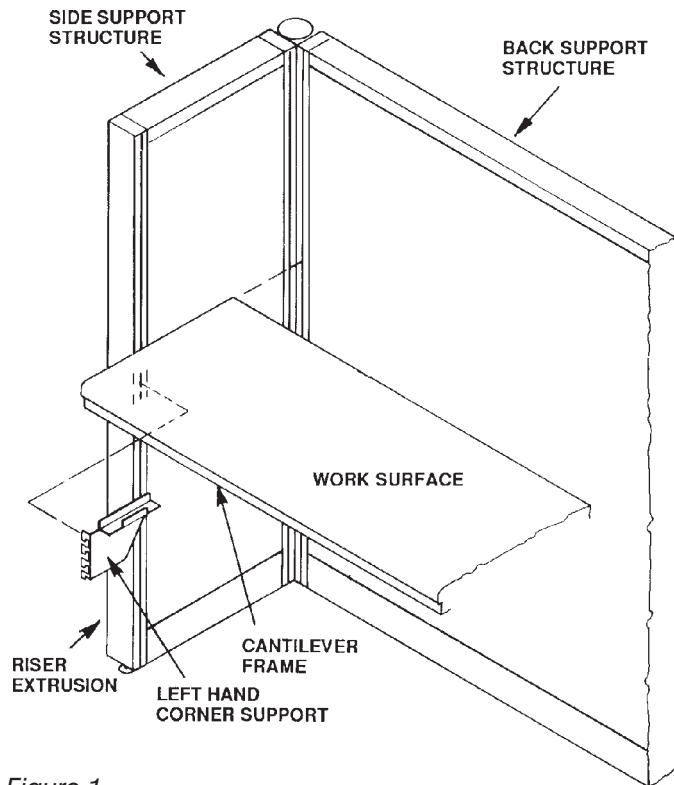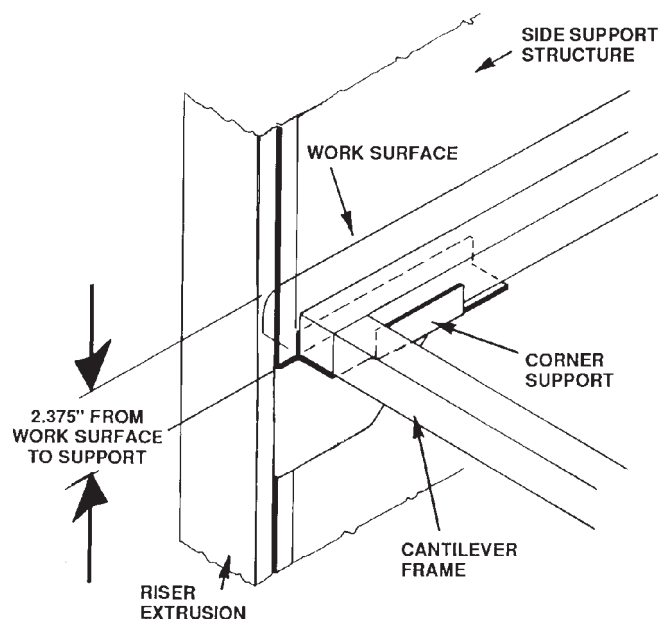


Figure 1



Figure 2

# MAX/Lab ®

*Attaching Corner Table Support for Cantilever Work Surface or Supported Structural Table (Continued)*

**Attaching Corner Support to Previously Installed Cantilever Work Surface or Supported Structural Table.**

**Refer to Figure 3:**

1. Loosen side support structure from corner post just enough to allow it to swing a minimum of 1" sideways from front corner of work surface.

2. Place corner support under table frame with hooks pointing towards side support structure.

3. Lift table frame and corner support. Swing side support structure back to place of origin and insert hooks of corner support into slots in riser extrusion.

**Note:** Front leveler of side support structure may have to be screwed In to lower structure for easier insertion of hooks. If so, return leveler to correct height after hooks are engaged.

4. Strike work surface with rubber mallet to insure corner support is secure.

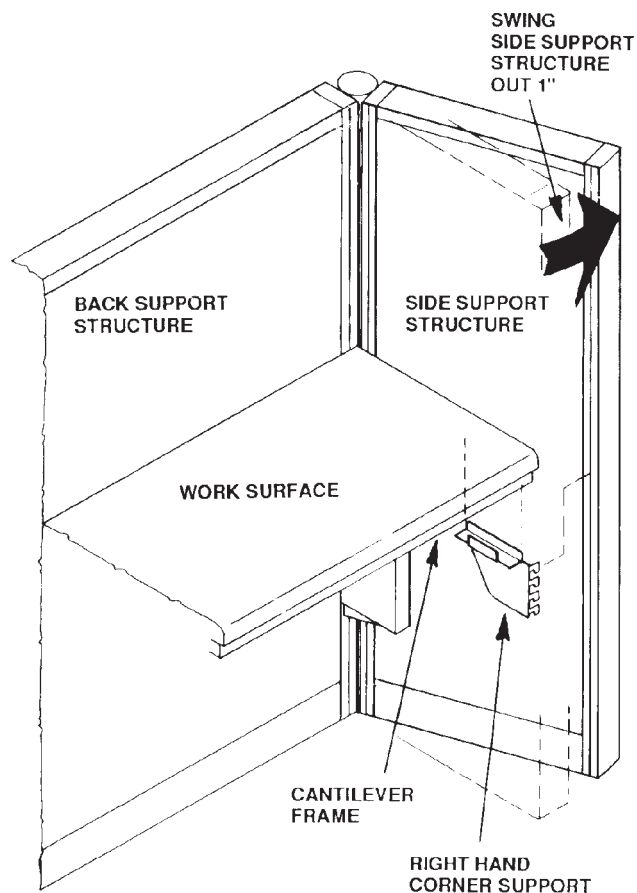5. Re-tighten side support structure to corner post.



*Figure 3*

# *Attaching Support Leg to Cantilever Table*
*Product Number 225H123 and 225H129*

**Tools Required:**

Phillips Screwdriver.
1/2" Wrenchs, two required.

Support leg assembly may be attached to either a left or right hand cantilever table leg by placing the mounting strap on the inside of the leg in both cases.

**Refer to Figure 1:**

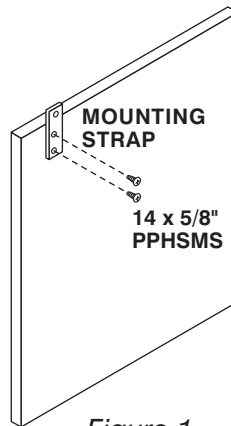1. Attach mounting strap to support leg assembly using two No. 14 Phillips head screws.

**Refer to Figure 2:**

2. Attach mounting strap to upper table frame using the 5/16" x 1-7/8" bolt.

3. Attach lower end of support leg to cantilever table leg using a 5/16" Phillips head screw.

4. Screw leveler fully into support leg tube. Insert clevis pin through channel. Adjust 1" tube up from floor level in the 1" tube. Adjust the leveler for the remaining distance to floor.
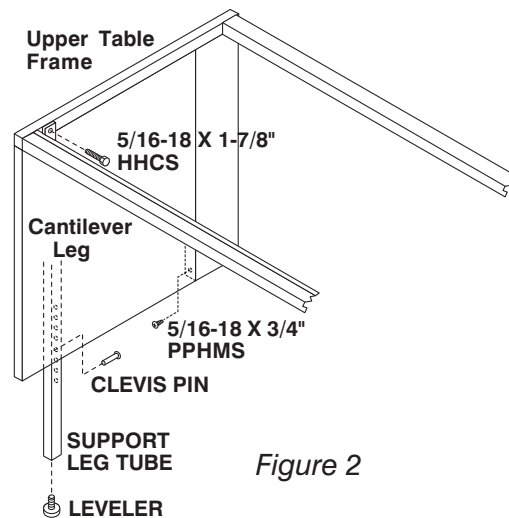
**MOUNTING STRAP**

**14 x 5/8" PPHSMS**

*Figure 1*

**Upper Table Frame**

**5/16-18 X 1-7/8" HHCS**

**Cantilever Leg**

**5/16-18 X 3/4" PPHMS**

**CLEVIS PIN**

**SUPPORT LEG TUBE**

*Figure 2*

**LEVELER**

# MAX/Lab ®

## Filler Panel Assembly and Installation

**Tools Required:**

9/16" Wrench, 2 required.
Center Punch.
Phillips Screwdriver.
Hammer.
3/8" Drill Motor with 1/8" drill bit.

**Instructions for installing filler panels when joining a floor-mounted sink cabinet to the end of an island core.**

**Refer to Figure 1:**

1.  Loosely assemble filler panels to end uprights of lower island core using the 3/8" bolts provided. Both filler panels are identical and can be used interchangeably for either the left or right hand side.
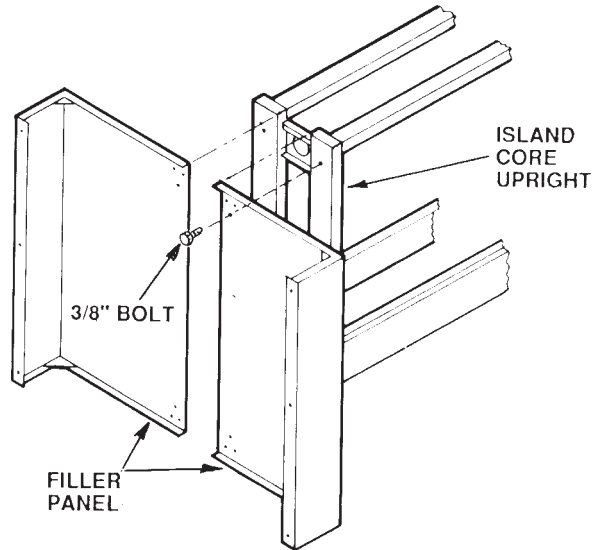
**Refer to Figure 2:**

2.  Move sink cabinet in position and level at the correct height. The filler panels should be flush to the top of the sink cabinet.

3.  While holding the filler panel in position and using it as a template, mark the alignment of the 3 holes on the filler panel onto the back of the sink cabinet. Do this for both filler panels.

4.  Slide the sink cabinet away and drill a 1/8" diameter hole into the back of the cabinet for each of the 6 hole positions transferred from the filler panels.

5.  Reposition the sink cabinet into place and check the levelness.

6.  Using the No. 10 screws, attach the filler panels to the sink cabinet.

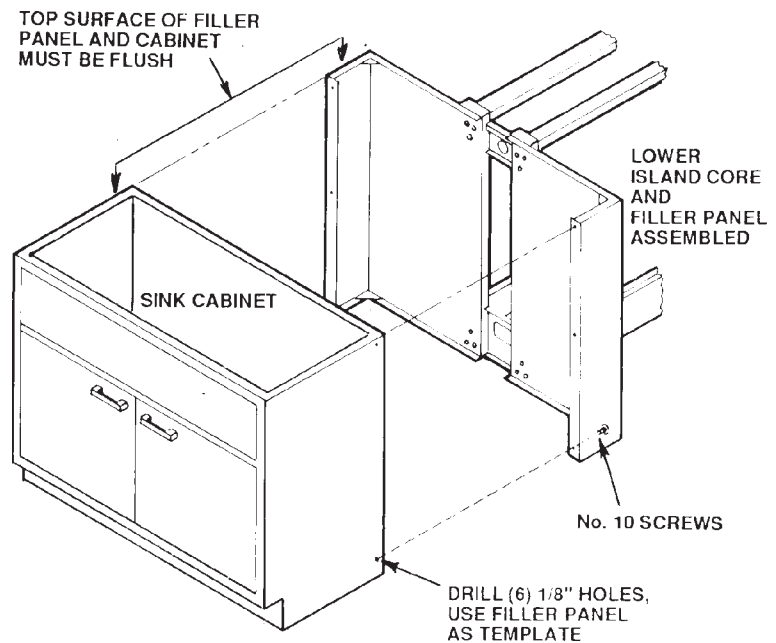7.  Tighten the 3/8" bolts holding the filler panels to the island core.



ISLAND CORE UPRIGHT

3/8" BOLT

FILLER PANEL

*Figure 1*



TOP SURFACE OF FILLER PANEL AND CABINET MUST BE FLUSH

LOWER ISLAND CORE AND FILLER PANEL ASSEMBLED

SINK CABINET

No. 10 SCREWS

DRILL (6) 1/8" HOLES, USE FILLER PANEL AS TEMPLATE

*Figure 2*

# Installation of Core Divider Inserts at Center of Island Core

**Tools Required:**

Phillips  Screwdriver.
3/8" Drill Motor with 3/32" Drill Bit.

**Refer to Illustration 1**

1.  Position lower retaining channel on work surface. Channel should be centered on the work surface both length-wise and side-to-side.

2.  Using the retaining channel as a template, drill 3/32" diameter holes in the work surface and mount the channel using the No. 10 sheet metal screws. The retaining channel may also be attached to the work surface using double-sided tape or adhesive to be supplied by the end user.

3.  Attach one of the upper retaining panels to the underside of the top shelf using two No. 10 machine screws.

4.  Place the two divider inserts back-to-back and insert them into the lower retaining channel. Pivot the inserts up against the upper retaining panel that is already in place.

5.  Attach the other retaining panel to the underside of the top shelf using two No. 10 machine screws. The retaining panel should be pressed tightly against the inserts before tightening the screws.
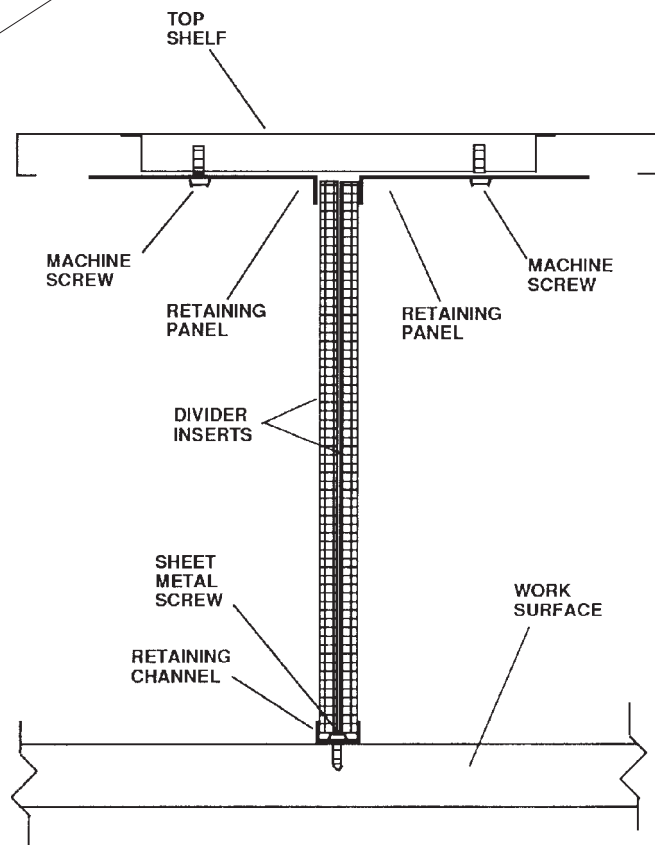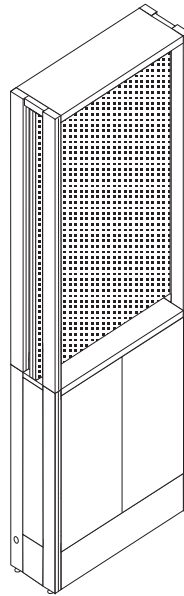


*Figure 1*

# MAX/Lab ®

## *Installation of Core Divider Inserts at Side of Island Core*

**Tools Required:**

Phillips  screwdriver.
3/8" Drill motor with 3/32" drill bit.

**Refer to Illustration 2**

1.  Position lower retaining channel flush to the edge of the work surface.

2.  Using the retaining channel as a template, drill 3/32" diameter holes in the work surface and mount the channel using the No. 10 sheet metal screws. The retaining channel may also be attached to the work surface using double-sided tape or adhesive to be supplied by the end user.

3.  Attach one of the upper retaining panels to the underside of the top shelf using two No. 10 sheet metal screws. The retaining panel should be flush with the edge of the top shelf.

4.  Place the two divider inserts back-to-back and insert them into the lower retaining channel. Pivot the inserts up against the upper retaining panel that is already in place.

5.  Attach the other retaining panel to the underside of the top shelf using two No. 10 machine screws. The retaining panel should be pressed tightly against the inserts before tightening the screws.
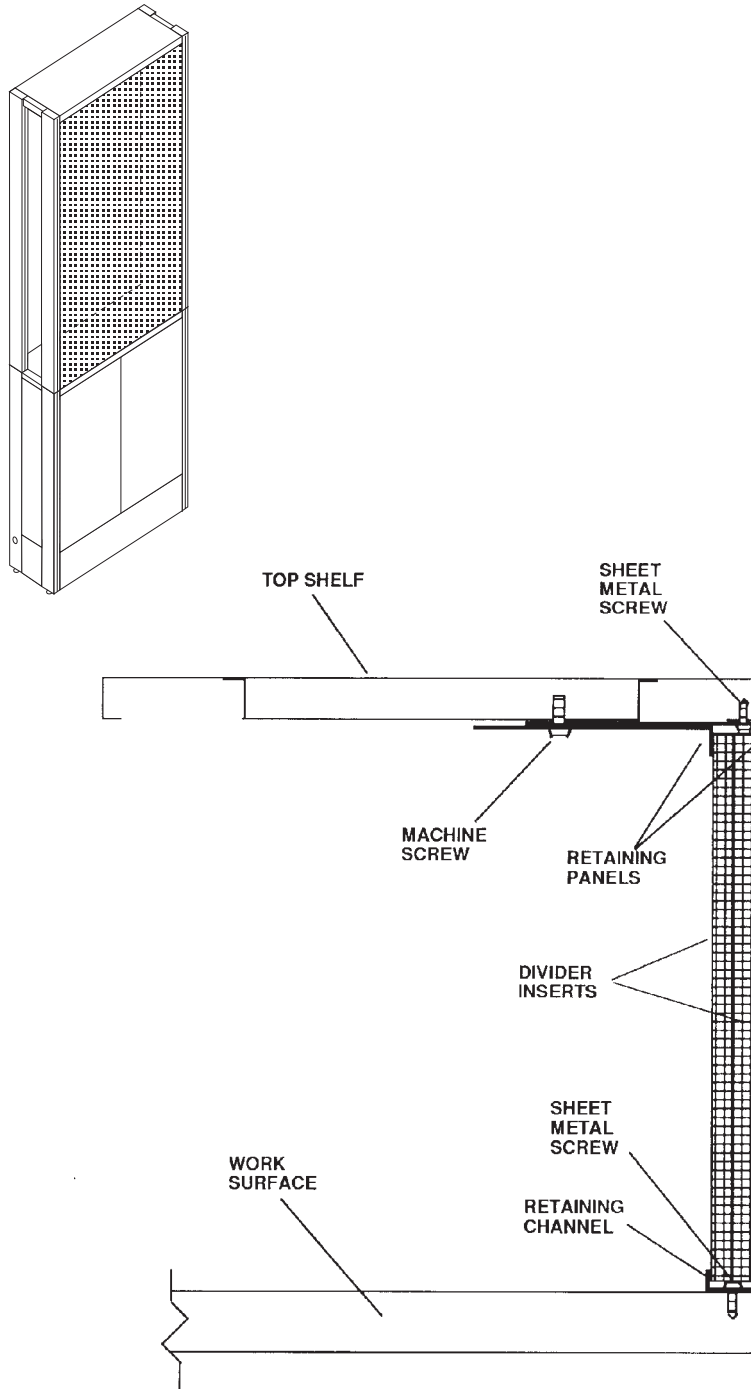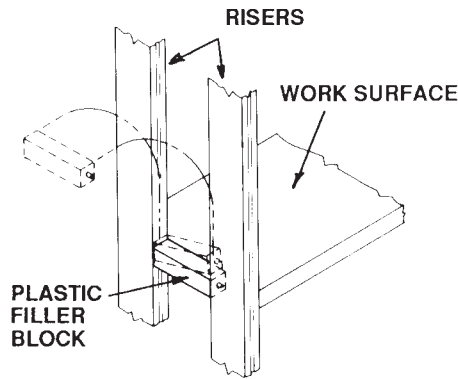


*Figure 2*

# Installation of Riser Closer Inserts

**Tools Required:**

Phillips screwdriver.
Small flat blade screwdriver.

**Installation of Riser Closer Inserts at the End of an Island Core Run**

**Refer to Figure 1:**

1. Remove the plastic filler block between the risers at the work surface. Slide the filler block up away from the work surface. Raise one end of the block while lowering the other end to disengage the tabs on the filler block from the slots in the risers.
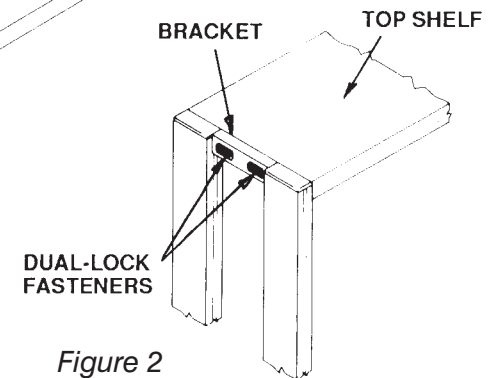
**Refer to Figure 2:**

2. Attach the "Dual-Lock" fasteners to the bracket on the top shelf between the risers. (Clean the painted surface with solvent before applying the two "Dual-Lock" fasteners.)

**Refer to Figure 3:**

3. Install the outside end facing by inserting the tabs on the insert into the slots in the bracket at the work surface level.

4. Pivot the outside end facing up to engage the mating "Dual-Lock" fasteners.

5. Install the inside end facing by inserting the pivot pins into the slots in the risers. The top of the inside end facing must be tilted away from the risers and tipped slightly to engage the pivot pins.

6. Pivot the inside end facing up to engage the mating "Dual-Lock" fasteners. Support the outside end facing when pressing the inside end facing in place.
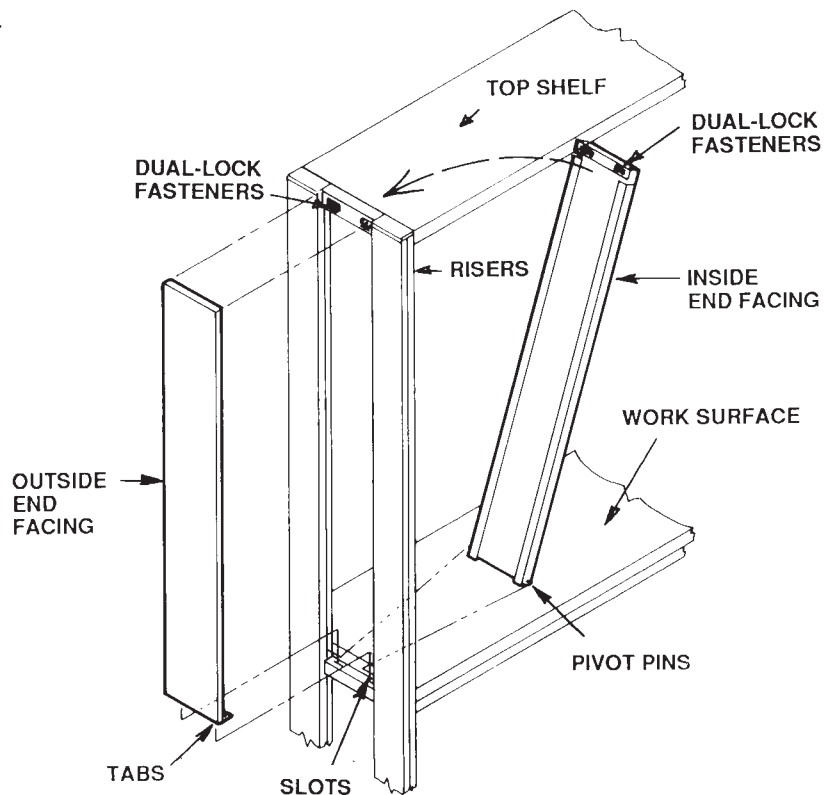
Figure 1

Figure 2

Figure 3

### Installation of Riser Closer Inserts Between Island Cores

1. When installing riser closure inserts into island cores located in the middle of an island core run, the outside closure insert is not used.

2. Remove the plastic filler block between the risers at the work surface. Using a small flat blade screwdriver, pry the filler block up and slide it away from the work surface. Raise one end of the block while lowering the other end to disengage the tabs on the filler block from the slots in the risers. (Similar to Illustration 1)

### Refer to Figure 4:

3. Attach the bracket provided between the risers using the No. 8 screws. The top of the bracket should be approximately flush with the underside of the top shelf. The No. 8 screws will align and be captured by the slots in the riser.

4. Attach the "Dual-Lock" fasteners to the bracket just installed. (Clean the surface with solvent before applying the two "Dual-Lock" fasteners.)

5. Install the inside closure insert by inserting the pivot pins into the slots in the risers. The top of the inside closure insert must be tilted away from the risers and tipped slightly to engage the pivot pins. (Similar to Illustration 3)

6. Pivot the inside closure insert up to engage the mating "Dual-Lock" fasteners.

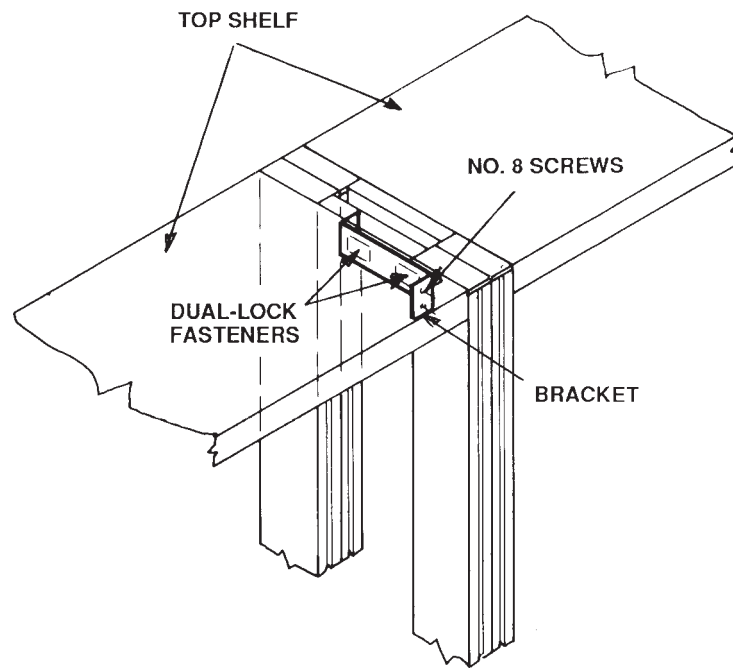7. Repeat steps 4, 5 and 6 to install an inside closure insert on the adjacent island core.



*Figure 4*

# Attaching General Purpose Shelves

## Tools Required:

Rubber Mallet.
Phillips screwdriver with No. 2 & 3
tips.

## Refer to Figure 1:

1. Attach right hand and left hand shelf brackets to shelf using No. 10-24 x 1/2" PPHMS.

2. If shelf lips are provided with shelf, attach using No. 10 x 5/8" PPHSMS to front and/or back edge of shelf.

3. Insert hooks on shelf brackets into slots in riser extrusions on core or panel. Shelf height is adjustable by inserting hooks into different slots which are spaced at 1" intervals.

4. To make sure that shelf is securely hooked to riser, strike shelf brackets with a rubber mallet in a downward direction until hooks are engaged.
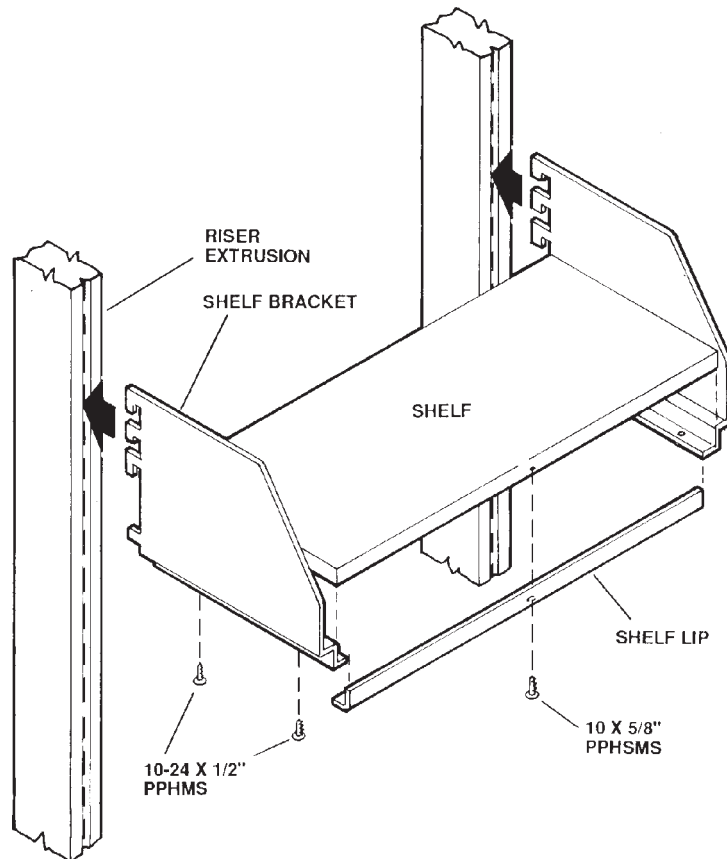


*Figure 1*

# MAX/Lab ®

## *Attaching Inner Shelves to Island Core*

**Tools Required:**

Phillips screwdriver with No. 2 & 3 tips.

**Refer to Figure 1:**

1. Attach shelf bracket assemblies to shelf using No. 10-24 x 1/2" PPHMS.

2. If shelf lips are provided with shelf, attach using No. 10 x 5/8" PPHSMS to front and/or back edge of shelf.

**Refer to Figure 2:**

3. Squeeze levers (protruding from bottom of shelf bracket) together and position shelf between risers in island core.

4. When tabs on ends of shelf bracket assembly are properly aligned with slots in risers, release levers to engage tabs in riser slots.

5. Make sure levers are fully released so tabs fully engage slots in risers.

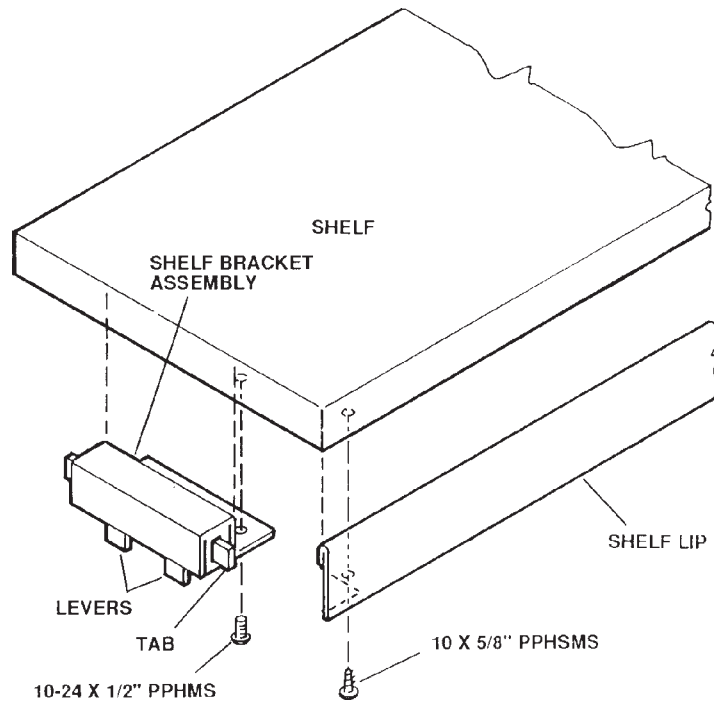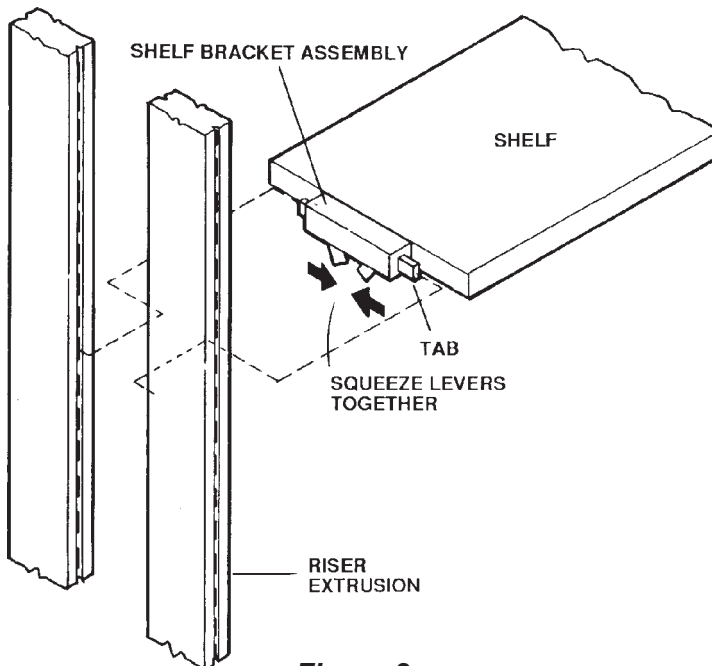6. Shelf height is adjustable by inserting tabs into different slots which are spaced at 1" increments.



**SHELF**

**SHELF BRACKET ASSEMBLY**

**SHELF LIP**

**LEVERS**

**TAB**

**10-24 X 1/2" PPHMS**

**10 X 5/8" PPHSMS**

*Figure 1*



**SHELF BRACKET ASSEMBLY**

**SHELF**

**TAB**

**SQUEEZE LEVERS TOGETHER**

**RISER EXTRUSION**

*Figure 2*

# Attaching Inner Shelves to Wall Core

**Tools Required:**

Rubber Mallet.
Phillips screwdriver with No. 2 & 3
    tips.

**Refer to Figure 1:**

1. Attach right hand and left hand shelf brackets to shelf using No. 10-24 x 1/2" PPHMS.

2. If shelf lips are provided with shelf, attach using No. 10 x 5/8" PPHSMS to front and/or back edge of shelf.

3. Insert hooks on shelf brackets into slots in riser extrusions wall core. Shelf height is adjustable by inserting hooks into different slots which are spaced at 1" increments.

4. To make sure that shelf is securely hooked to riser, strike shelf brackets with a rubber mallet in a downward direction until hooks are engaged.
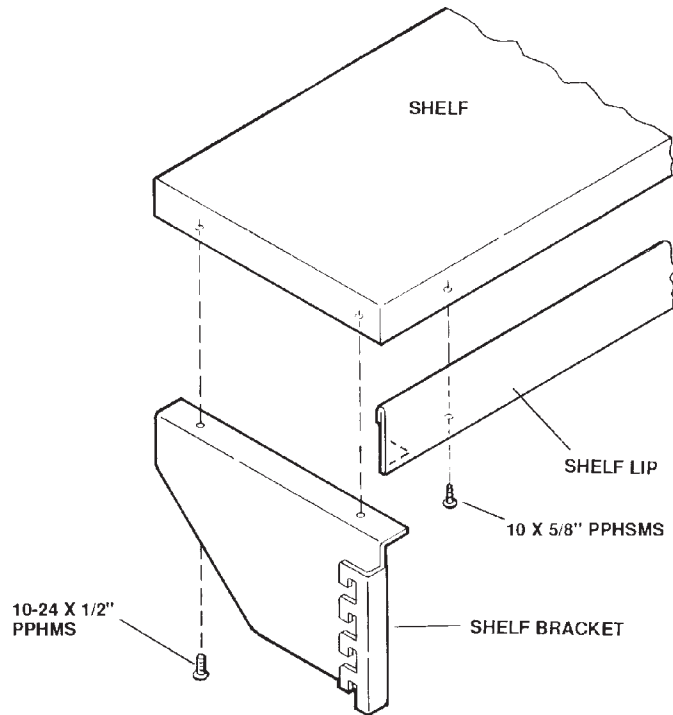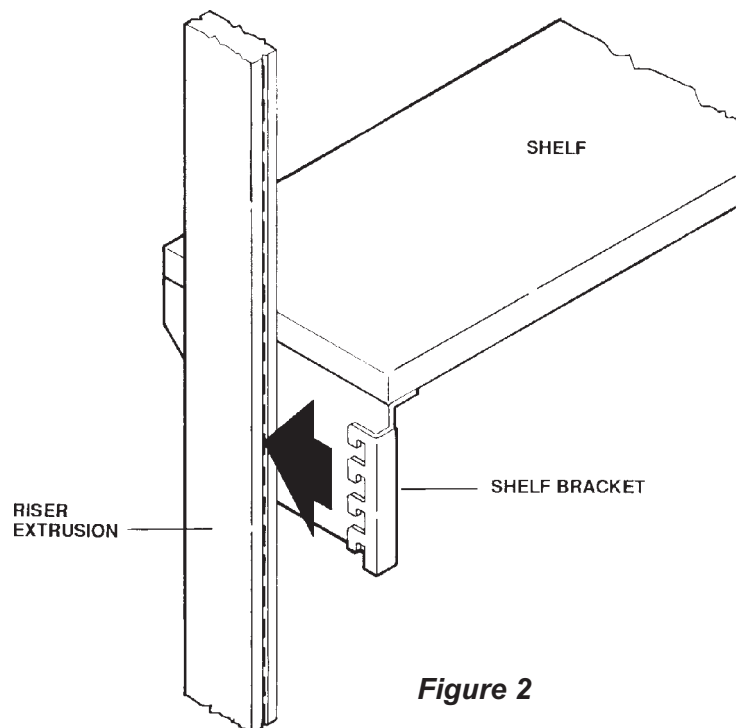
**Figure 1**

**Figure 2**

# MAX/Lab®

## *Attaching Sloping Adjustable Shelf to Core or panel*

**Tools Required:**

Phillips screwdriver with No. 2 & 3 tips.

**Refer to Figure 1:**

1. Attach right hand and left hand shelf bracket assemblies and end shelf lips to shelf using No. 10-24 x 1/2" PPHMS.

2. Attach front shelf lip to front edge of shelf using No. 10 x 5/8" PPHSMS.

3. Insert hooks on shelf bracket assemblies into slots in riser extrusions of core or panel. Shelf height is adjustable by inserting hooks into different slots which are spaced at 1" increments.

4. Lock shelf bracket assemblies to risers by screwing No. 8 x 5/8" PPHSMS through bracket and into slot, push shelf brackets down such that hooks are fully engaged in slots.
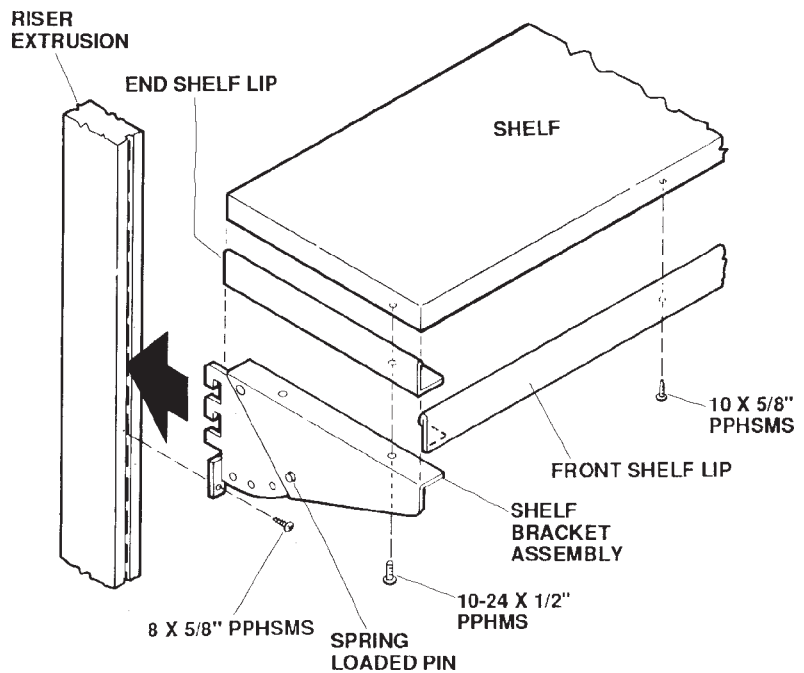
**Refer to Figure 2:**

5. Angle of shelf may be adjusted by pulling spring loaded pins inward to disengage pin from shelf bracket. Tilt shelf to desired angle and re-lease spring loaded pin. Make sure pins are fully engaged in shelf bracket holes before any load is placed on shelf.

6. The spring loaded pins may be temporarily disengaged by pulling the pin inward and then rotating it counter-clockwise until it is held out. This allows tilting adjustment of the shelf without having to hold both pins at the same time. To re-engage the pins, rotate clockwise to release and make sure the pin is fully engaged in shelf bracket holes.
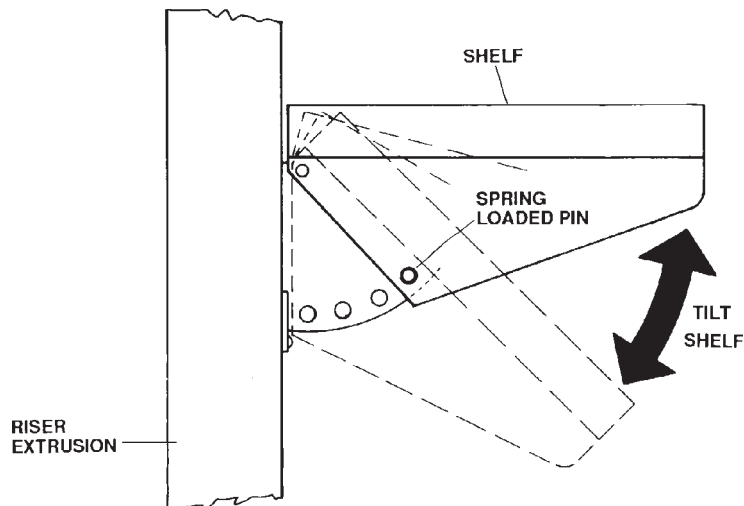


*Figure 1*



*Figure 2*

## *Installing Floor and Wall Mounted Cabinets*

### Hardware Included:

**Note:** The following hardware bag assemblies may be shipped in one package, or may be shipped in separate packages with each product.

Floor mounted cabinet, bag No. 681363:
- 4   1/4-20 x 1/2" PPHMS.
- 4   Lockwashers.
- 4   1/4-20 Hex nuts.
- 4   No. 10 x 3/4" PPHSMS.
- 4   Shelf supports.

Upper cabinet - 2 shelves, bag No. 681365:
- 4   1/4-20 x 1/2" PPHMS.
- 4   Lockwashers.
- 4   1/4-20 Hex nuts.
- 3   No. 10 x 3/4" PPHSMS.
- 8   Shelf supports.

Upper cabinet - 3 shelves, bag No. 681366:
- 4   1/4-20 x 1/2" PPHMS.
- 4   Lockwashers.
- 4   1/4-20 Hex nuts.
- 3   No. 10 x 3/4" PPHSMS.
- 12  Shelf supports.

Shelf support, bag No. 681771:
- 4   Shelf supports.

Full height cabinet - 5 shelves, bag No. 681367:
- 4   1/4-20 x 1/2" PPHMS.
- 4   Lockwashers.
- 4   1/4-20 Hex nuts.
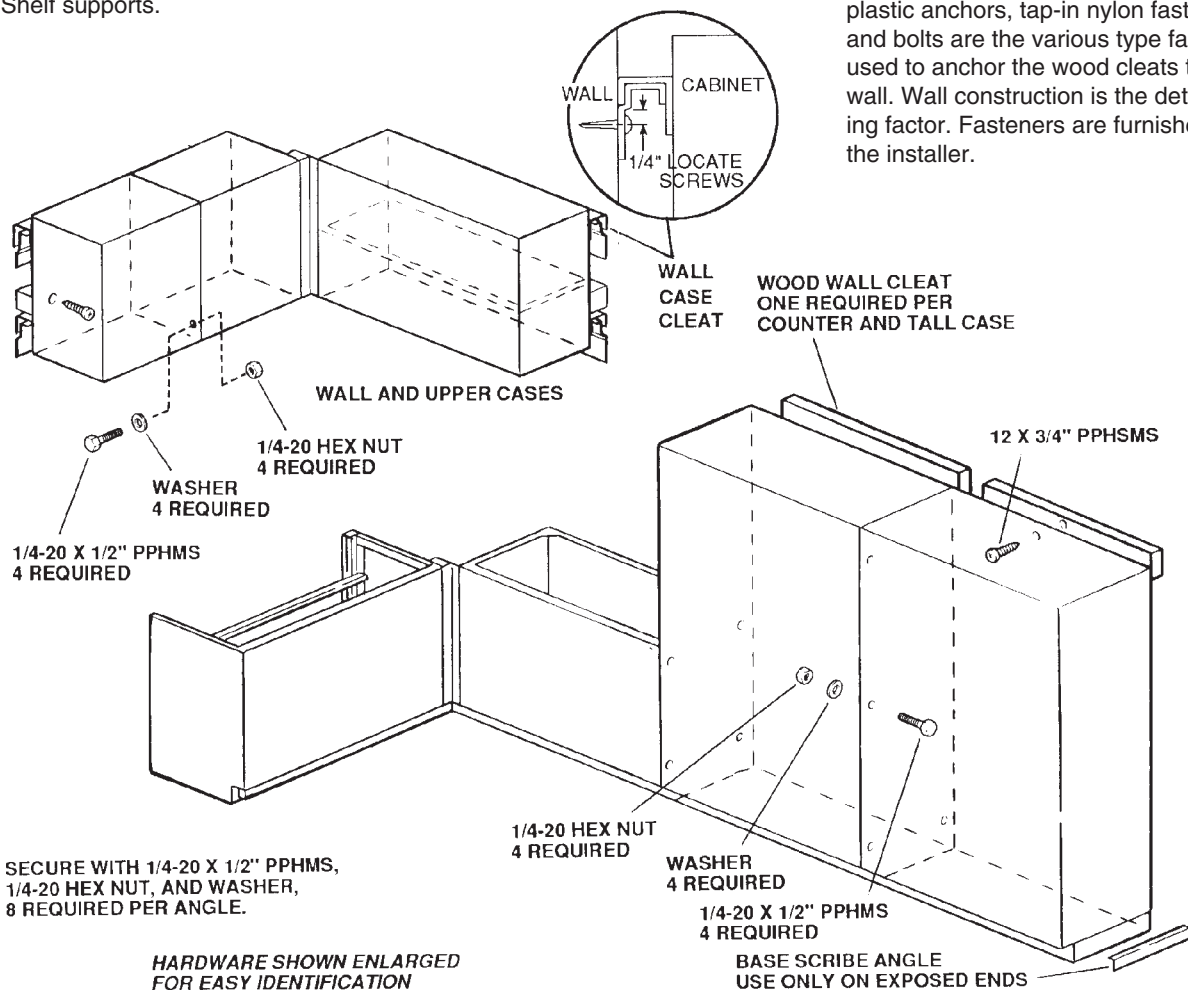- 3   No. 10 x 3/4" PPHSMS.
- 20  Shelf supports.

### Preparation for Installation
#### Refer to Figure 1:

Most installers prefer to hang wall cases first, which eliminates working over unit assemblies. Each wall case is hung from steel cleats and a horizontal wooden filler block. The steel cleats are screwed to the studs in the wall. Screws also extend through the back of the wall case, through the wooden filler block, and into the wall studs. If specifications indicate a different type hanger, please contact the Project Manager.
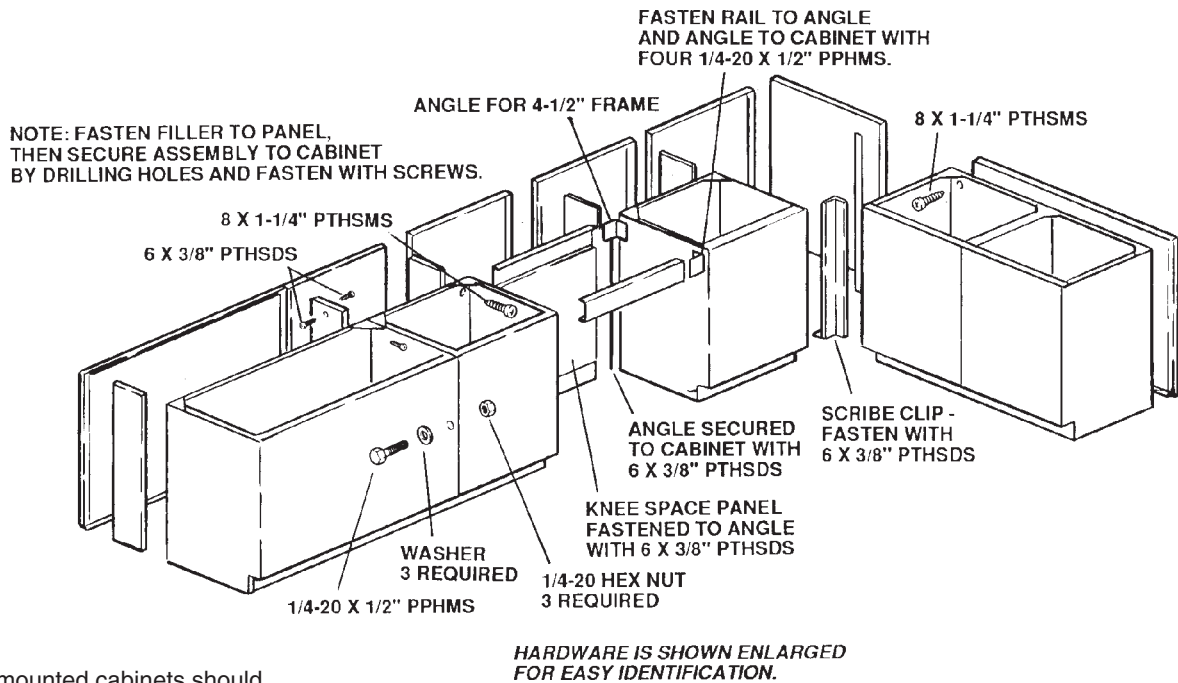
When a row of wall cases is indicated, a chalk line should be snapped to get all the cleats at the same level.

Toggle bolts, Rawl plugs, Red Devil plastic anchors, tap-in nylon fasteners and bolts are the various type fasteners used to anchor the wood cleats to the wall. Wall construction is the determining factor. Fasteners are furnished by the installer.



**WALL AND UPPER CASES**

**HARDWARE SHOWN ENLARGED FOR EASY IDENTIFICATION**

*Figure 1*

# MAX/Lab®

## *Installing Floor and Wall Mounted Cabinets (Continued)*



FASTEN RAIL TO ANGLE
AND ANGLE TO CABINET WITH
FOUR 1/4-20 X 1/2" PPHMS.

ANGLE FOR 4-1/2" FRAME

8 X 1-1/4" PTHSMS

NOTE: FASTEN FILLER TO PANEL,
THEN SECURE ASSEMBLY TO CABINET
BY DRILLING HOLES AND FASTEN WITH SCREWS.

8 X 1-1/4" PTHSMS

6 X 3/8" PTHSDS

SCRIBE CLIP -
FASTEN WITH
6 X 3/8" PTHSDS

ANGLE SECURED
TO CABINET WITH
6 X 3/8" PTHSDS

KNEE SPACE PANEL
FASTENED TO ANGLE
WITH 6 X 3/8" PTHSDS

WASHER
3 REQUIRED

1/4-20 HEX NUT
3 REQUIRED

1/4-20 X 1/2" PPHMS

*HARDWARE IS SHOWN ENLARGED
FOR EASY IDENTIFICATION.*

**Figure 1**

Tall and floor mounted cabinets should be checked to make sure they are not racked out of square by uneven floors. This is important to insure smooth operation of the drawers and doors

Tall and floor mounted cabinets should be anchored to the wall and bolted together.

### Refer to Figure 2:

Base units must be leveled along and across the top frame as the assembly progresses. Units must be fastened together as shown. Assemblies must also be anchored to the wall or floor.

It is imperative that installers have a base adjusting tool (Product No. 950M400) when attempting to level Modular Cabinets. (See Figure 3). These tools can be purchased through the Project Manager.

### Adjusting Steel Drawers

1. Prior to any adjustment of doors and drawers, base cabinets must be set plumb square and level. Use a carpenter's level and leveling tool No. 950M400 (Figure 2). With the cabinet set perfectly level, the drawers should move easily in and out and exhibit the self-closing



HANDLE

BASE
ADJUSTING
TOOL (950M400)

BASE
LEVELER
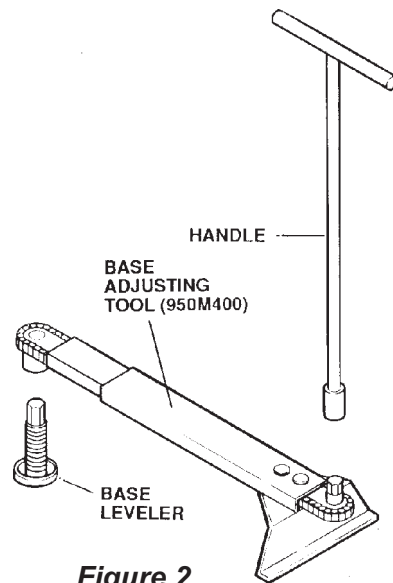
**Figure 2**

feature. If drawer operation is not smooth, remove the drawer and check to see that each roller rotates freely. To free-up rollers, apply a drop or two of light oil or pack the bearings with grease. If the drawer binds, remove the drawer and spread the runs so that adequate clearance exists for the roller. If the drawer runs are spread to the maximum, move the back rollers on the drawer body closer together.

2. To adjust the drawer head position, raise or lower the drawer run at the front post of the cabinet, by loosening the screw and moving the run up or down. Additional adjustment is accomplished by moving the drawer head up or down, left or right. Loosen the head mounting screws, reposition the head and re-tighten the screws, or tap the drawer head with a rubber hammer.

**Note:** Each drawer is adjusted to a specific location within a certain cabinet. When drawers are removed, they must be replaced in the same location.

# Installing Floor and Wall Mounted Cabinets (Continued)

**Adjusting Steel Hinged Doors**

1. When the hinged door is low or high in the opening of the unit, the door can be raised or lowered by loosening the screws that hold the hinges to the cabinet side. When all screws in the hinges are loose, the door can be raised or lowered enough so that the reveal is the same around the door When this is accomplished, then all screws should be tightened. Check and re-adjust if necessary

2. When a door is crooked or cocked in an opening, the door can be aligned by the use of a heavy piece of wire bent at one end to form a 90 degree angle; the bent piece about three inches long. Insert wire hook between leaves of top or bottom hinge when door is in open position. Close door slowly and hinge will open moving top or bottom of door towards jam. Do not close door all the way. Try the door in the opening after each attempt with the heavy

wire until door is properly aligned in the opening.

**Adjusting Steel Sliding Doors**

**Refer to Figure 4:**

1. Hangers (A) need not be loosened from surface of door. A blade type screwdriver is required to make the adjustment.

2. With the screwdriver turn the adjusting disc (B) in the center of the hanger, clockwise to lower the door and counterclockwise to raise the door.

3. To make the doors plumb with the unit side, adjust doors to the full up position or the full down position. If gap is not very great, a slight adjustment of one hanger or of both hangers may be sufficient.

4. When doors are plumb with unit side, make the up and down adjust-

ment of the doors by equally adjusting both hangers to achieve proper clearance of bottom door guide (C).

5. Do not attempt to tighten hanger. Adjustment is self locking.

6. To adjust hanger (D) remove door stops (E). This will allow doors to by pass giving access to adjusting disc.

**Removal of Framed Glass or Solid Sliding Doors**

1. Loosen screws and remove bottom door guide. Tilt door to permit top of nylon roller to move out of track. Do Not Force. If door binds or hangs up, adjust rollers to provide more space between top of door edge and track. Repeat tilting procedure, lift and remove door. Repeat for second door. (It may be necessary to remove and lean lower shelf or shelves against cabinet back to provide adequate clearance for the door movement). Clean glass and replace doors. Replace back door first. Tilt door to place bottom of nylon roller into track. Move door to vertical position and adjust to provide clearance for guide. Repeat for front door. Replace bottom door guide.
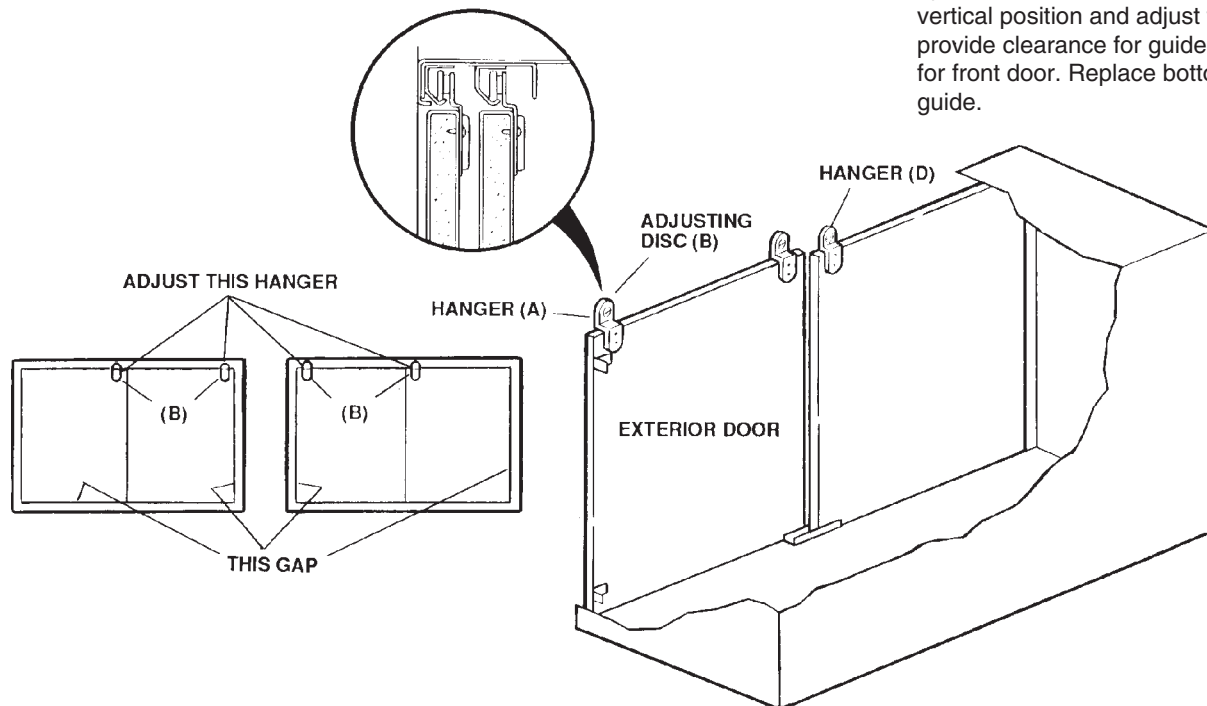


**Figure 4**

# MAX/Lab®

## *Installing Floor and Wall Mounted Cabinets (Continued)*

### Installing Upper Storage Cabinets

**Refer to Figure 5:**

**Warning:** Read these instructions carefully. Improperly installed cabinets can detach from the wall, fall, and cause serious injury.

1. Determine where the top of the cabinet will be located and using a carpenter's level, drawing a horizontal line 4.750" below this height.

2. Locate the bottom edge of the steel cleat provided with the cabinet on this line and mount cleat on wall utilizing an appropriate fastener. The steel cleat does not come with pre-drilled holes. Hole size and location must be determined at the job site. (**Note:** If wall is not true, it will be necessary to shim behind the cleat).

3. To mount the lower cleat, measure the distance between the hanger channels on the cabinet and add 2.250". Using this figure, measure down from the top of the existing cleat and mark a point. Using a carpenter's level, draw a horizontal line at this point. Follow Step B.

4. Hang cabinet on cleats.

5. An additional screw should be placed through the cabinet near the bottom into a stud to prevent accidental dislodging from the wall cleat. If it is not possible to locate a stud, use appropriate fasteners for a hollow wall as noted below. (**Note:** A wood filler should be placed between back of the cabinet and wall, filler is not supplied) .

### Wall Conditions

1. MAX Cabinets are hung on steel wall cleats. The cleats are furnished, but not the fasteners for attaching the cleat to the wall. The fasteners are standard hardware items which can be obtained locally to suit one of the following wall conditions:

2. Studded Walls - (Wood or aluminum) Use round head sheet metal screws of adequate size and length, making certain the screws are driven into the studs.

3. Hollow Tile or Masonry Walls - Use machine screws and expansion anchors of adequate size and length or toggle bolts.

4. Rough Solid Concrete or Brick Wall Use rawl plugs or lead sleeve anchors of adequate size and length.

5. Plaster on Metal Studs (For new construction) When wall type is metal studs and plaster, place wood ground in back of plaster where cabinets are to hang whenever possible. Use necessary wood screws to anchor steel cleat to wall. Be sure screw length is appropriate to fasten securely into wood ground.

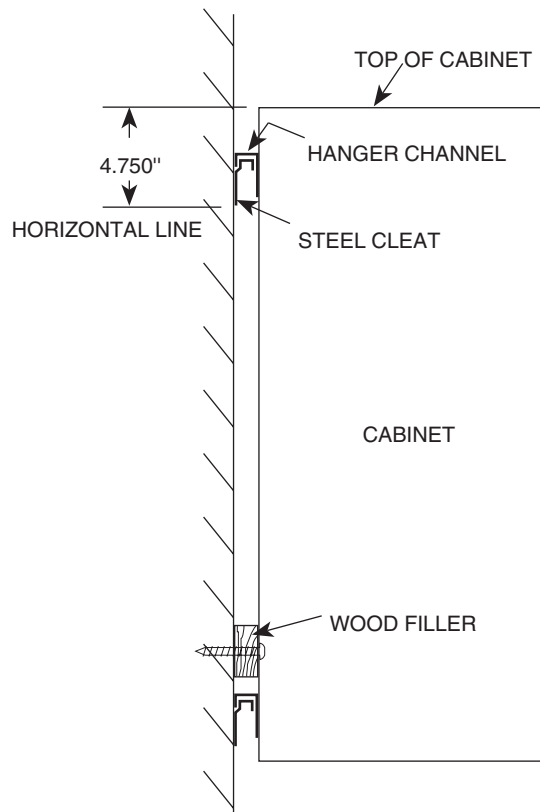**Note:** (For existing construction) Use toggle bolts to fasten steel cleat to wall.



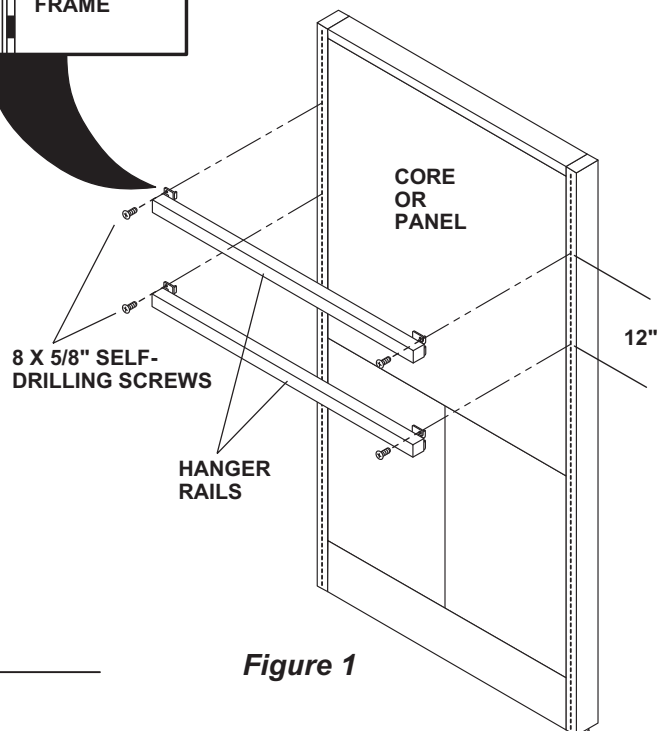*Figure 5*

# Installing Upper Cabinets to a Core or Panel

**Tools Required:**

Phillips screwdriver with No. 2 & 3
   tips.
Tape measure.
Rubber mallet.

**Hardware Included:**

4   No. 8 x 5/8" PPHSDS.

**Refer to Figures 1 and 2:**

1.  Remove No. 8 x 5/8" self-drilling screws from each end of hanger rail.

2.  Determine location of upper cabinet and insert top hanger rail into slots in core or panel at that point.

3.  Measure distance between hanging brackets on cabinet. Second hanger rail is installed this distance below upper hanger rail.

4.  Replace No. 8 x 5/8" self-drilling screws into hanger rails. Screws serve to lock rails in place. If screws can not be driven all the way in, hanger rail is not properly seated.

UPPER
CABINET

HANGER
RAIL

STRUCTURAL
FRAME

CORE
OR
PANEL

12"

8 X 5/8" SELF-
DRILLING SCREWS

HANGER
RAILS

*Figure 1*

UPPER
CABINET

MEASURED
DISTANCE

HANGER RAIL

STRUCTURAL
FRAME

*Figure 2*

# MAX/Lab®
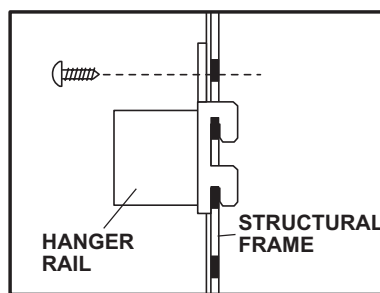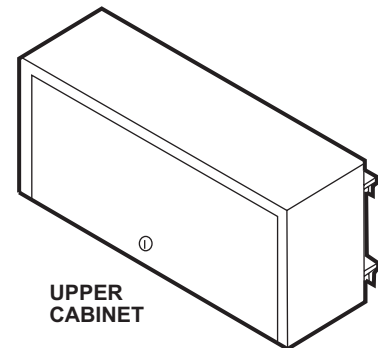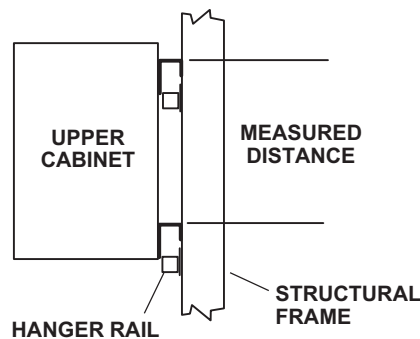
## *Installing Upper Cabinets to a Core or Panel (Continued)*

**Refer to Figure 3:**

5.  Place unit on hanger rails.

**Refer to Figure 4:**

6.  Local codes may require locking cabinet to hanger rails. If so, drill 5/32" diameter pilot hole 3-29/32" down from top of cabinet.

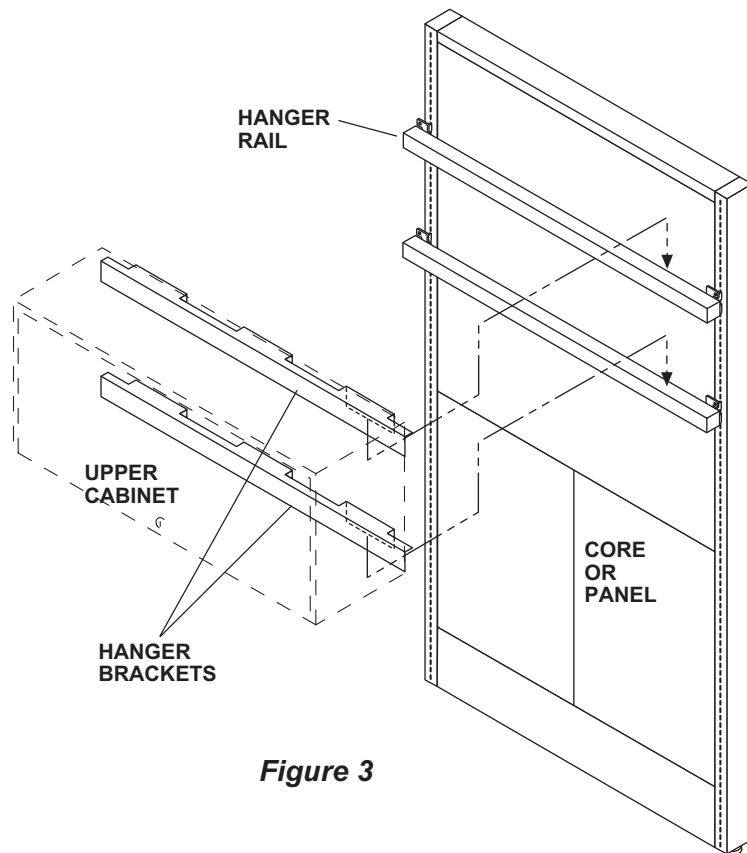7.  Screw No. 10 sheet metal screw (not supplied) through back of cabinet.

HANGER RAIL
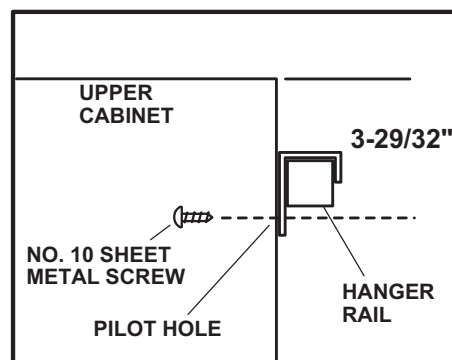
UPPER CABINET

HANGER BRACKETS

CORE OR PANEL

*Figure 3*

UPPER CABINET

3-29/32"

NO. 10 SHEET METAL SCREW

PILOT HOLE

HANGER RAIL

*Figure 4*

# *Installing Suspended Cabinets*

## Tools Required:

Phillips screwdriver with No. 2 & 3 tips.
3/4 & 7/16" Combination wrench or socket set with 7/16" socket.

## Hardware Included:

Bag No. 684435 consisting of:
- 2 Upper front brackets.
- 2 Upper rear brackets.
- 2 1/4-20 x 1/2" Flange bolts.
- 2 1/4-20 x 3/4" Carriage bolts.
- 2 1/4-20 Hex nuts.
- 2 Bottom clips.
- 2 1/4-20 x 1" PPHMS.

## Refer to Figure 1:

1. Remove drawers from suspended cabinet.

2. Insert 1/4-20 x 3/4" carriage bolts into rear brackets of suspended cabinet and hand tighten 1/4-20 nuts.

3. Slide rear brackets of suspended cabinet onto rear support channel or C-channel of work surface frame. See exploded view.



Figure 1

# MAX/Lab ®
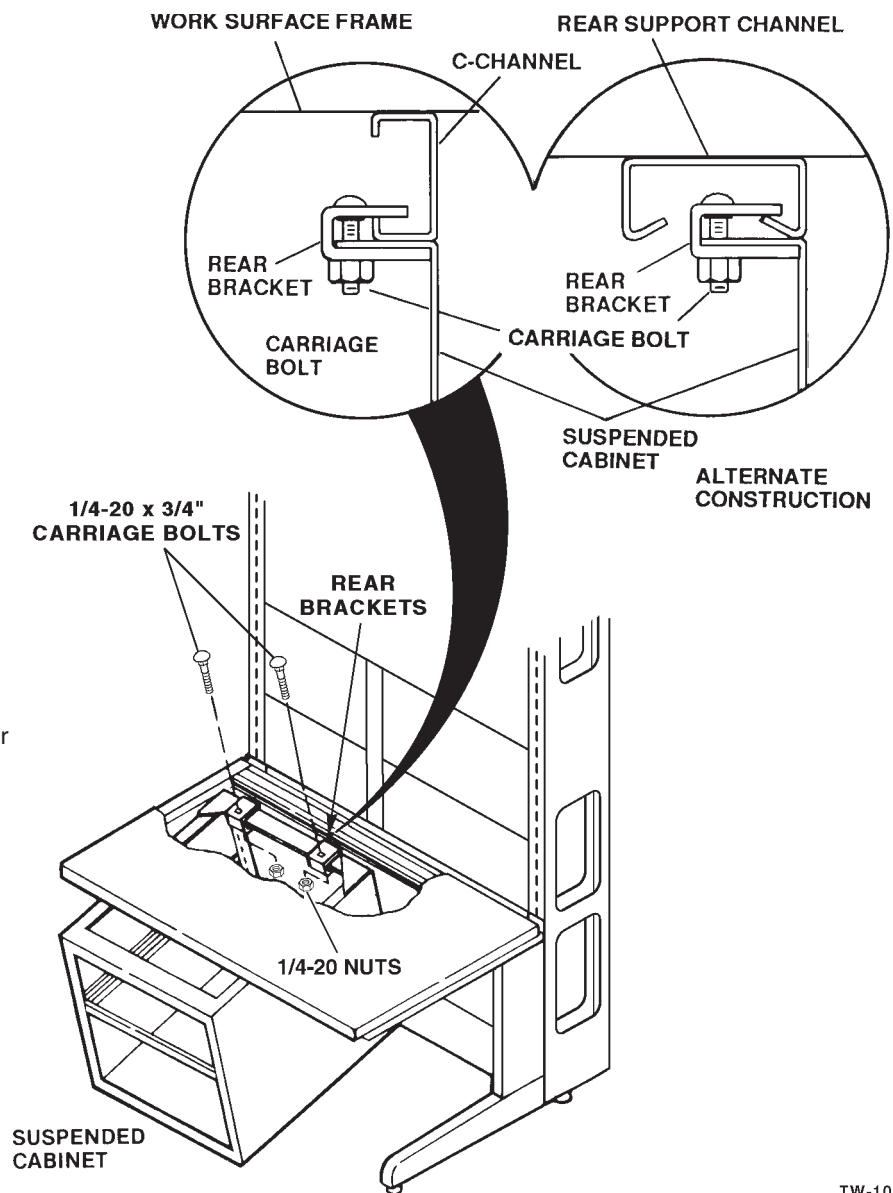
## *Installing Suspended Cabinets (Continued)*

**Refer to Figure 2:**

4. Attach front of cabinet to front C-channel of work surface frame, using two upper front brackets as shown. Tighten 1/4-20 x 1-1/2" bolts.
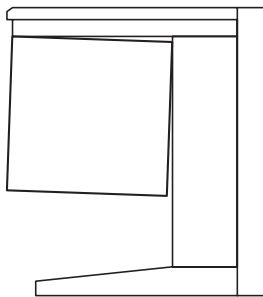
**Refer to Figure 3:**

5. If suspended cabinet does not hang square to frame, carriage bolts in upper rear brackets must be tightened.
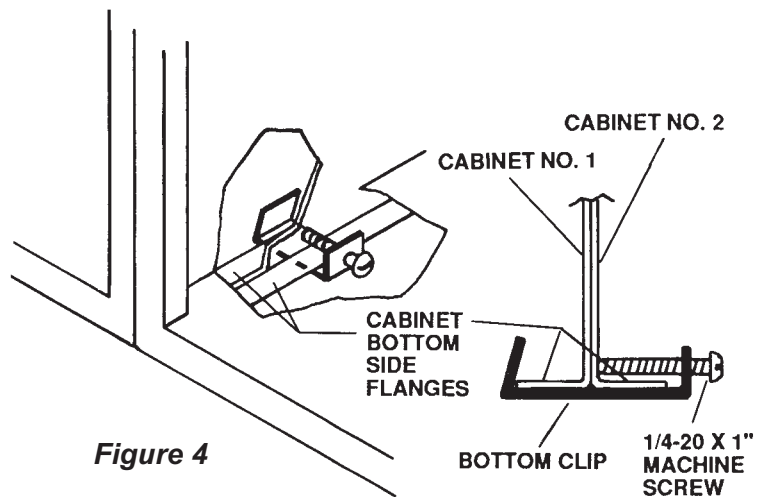
**Refer to Figure 4:**

6. Bottom clip and 1/4-20 x 1" machine screw are used to join two cabinets suspended side by side. Use one clip on front and one clip on rear of cabinet bottom side flanges.

FRONT C-CHANNEL

1/4-20 X 1-1/2" BOLT

SUSPENDED CABINET

FRONT BRACKET

SUSPENDED CABINET

*Figure 2*

TW-

*Figure 3*

CABINET NO. 2

CABINET NO. 1

CABINET BOTTOM SIDE FLANGES

BOTTOM CLIP

1/4-20 X 1" MACHINE SCREW
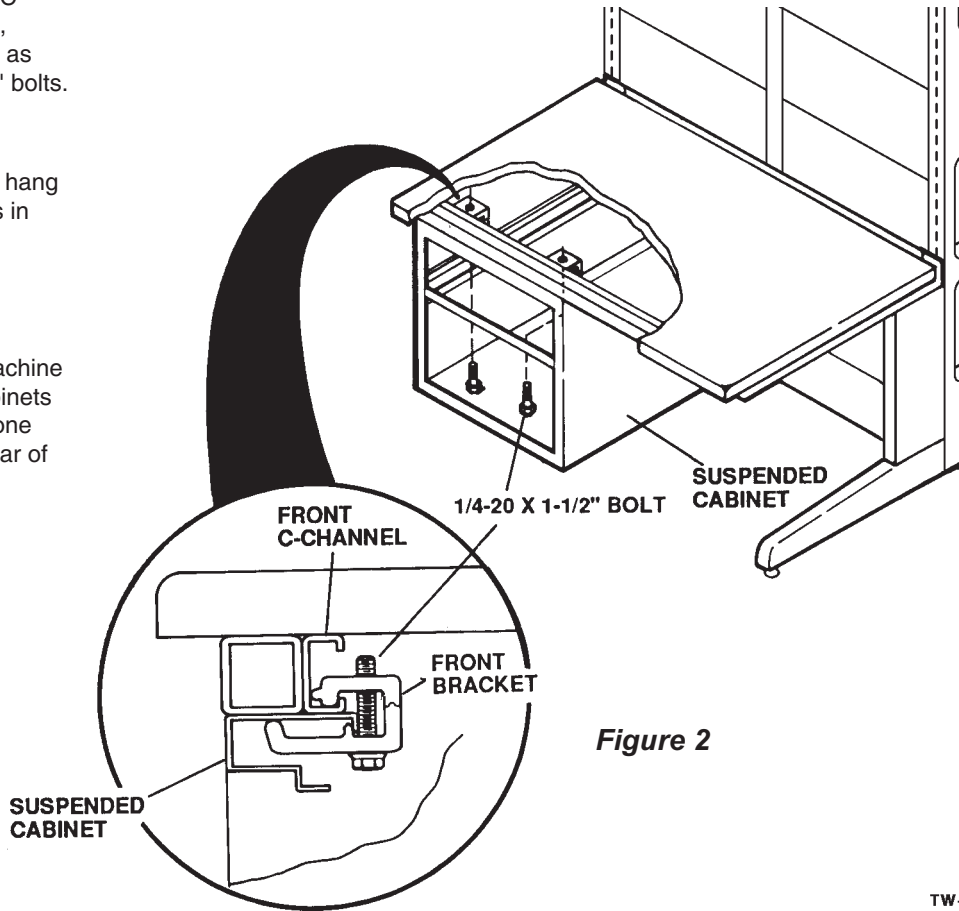
*Figure 4*

## *Attaching 520H Series Drawer Units to Table*

**Tool Required:**

7/16" Wrench.

**Hardware Included:**

Bag No. 684714 consisting of:
- 2   Top brackets.
- 2   1/4-20 x 3/4" Carriage bolts.
- 2   1/4-20 Nuts.

**Refer to Figure 1:**

1.  Remove drawer from frame assembly.

2.  Attach two clamps to frame assembly using 1/4-20 nuts from bag assembly. Do not tighten clamps at this time.

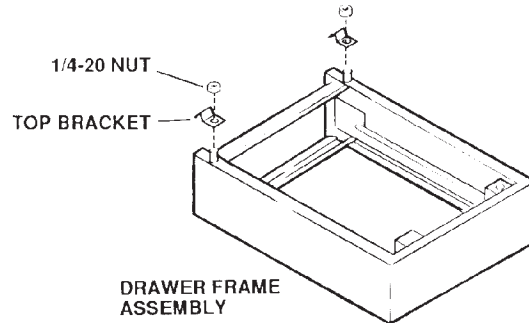3.  Insert 1/4-20 x 3/4" carriage bolts into rear clips of suspended frame and hand tighten 1/4-20 nuts.

**Refer to Figure 2 & 3:**

4.  Determine where the drawer unit is to be located under the table and attach as follows:

    a.  Insert the back end of the frame into the back C-channel of table. See Figure 2.

    b.  Attach the front end of the frame to the front C-channel using the clamps. See Figure 3.

    c.  Adjust the frame perpendicular to the C-channel and tighten the 1/4-20 nuts on the clamps.

5.  If suspended frame does not hang square to table frame as shown in Figure 3, the nuts on the carriage bolts in the rear clips must be tightened.
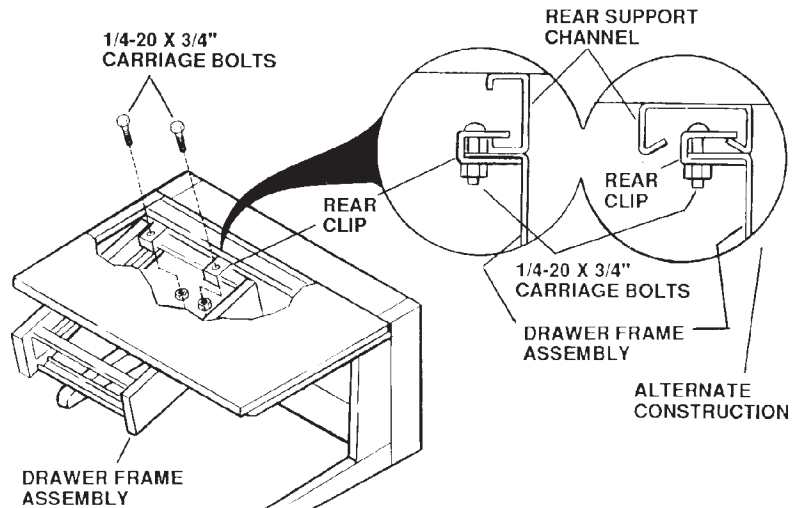
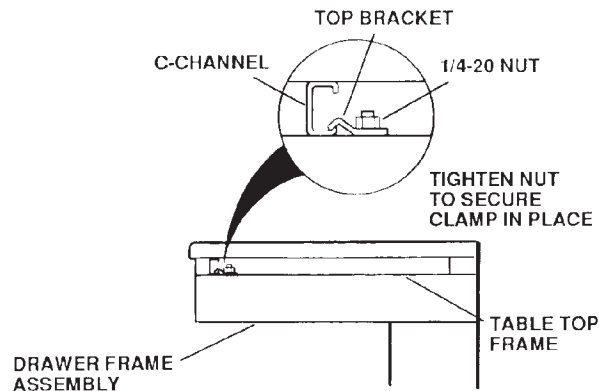6.  Insert drawer into frame assembly.



*Figure 1*



*Figure 2*



*Figure 3*

# MAX/Lab®

## *Attaching Reference Drawer*

**Tool Required:**

7/16" Wrench.

**Hardware Included:**

Bag No. 830544 consisting of:
    2   Top brackets.
    2   1/4-20 Nuts.

**Refer to Figure 1:**

1. Remove reference drawer from frame assembly.

2. Attach two clamps to frame assembly using 1/4-20 nuts from bag assembly. Do not tighten clamps at this time.
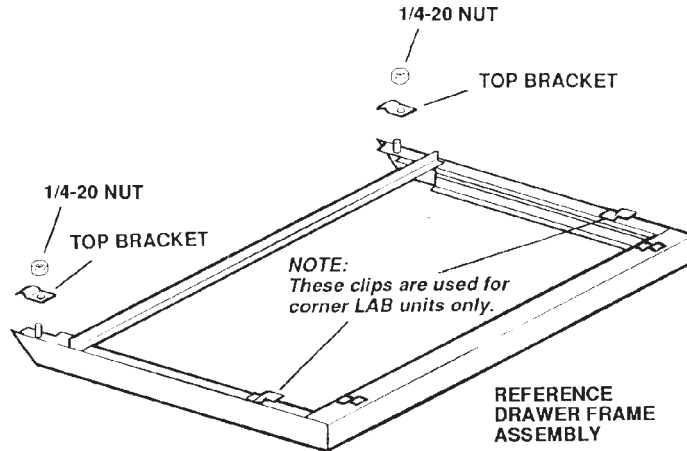
**Refer to Figure 2:**

3. Determine where reference drawer is to be located under work surface and attach frame assembly as follows:

   a. Insert the back end of frame assembly into the back channel of work surface frame.

   b. Use clamps to attach the front end of the frame assembly to the front C-channel.

   c. Adjust the frame perpendicular to the C-channel and tighten the 1/4-20 nuts on the clamps.
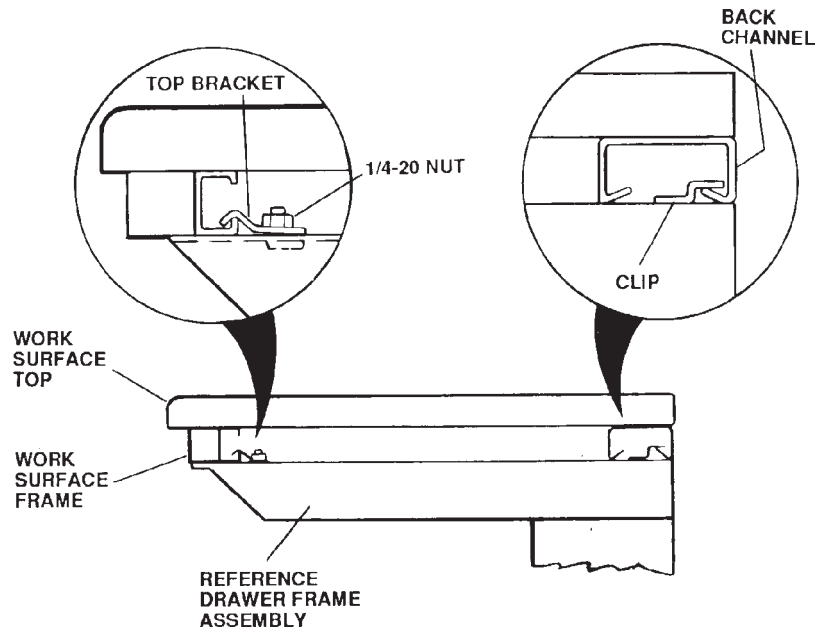
6. Insert reference drawer into frame assembly.



*Figure 1*



*Figure 2*

# Attaching Pencil Drawer

**Tool Required:**

7/16" Wrench.

**Hardware Included:**

Bag No. 830541 consisting of:
2   Top brackets.
2   1/4-20 Nuts.

**Refer to Figure 1:**

1.  Remove pencil drawer from frame assembly.

2.  Attach two top brackets to frame assembly using 1/4-20 nuts from bag assembly. Do not tighten top brackets at this time.
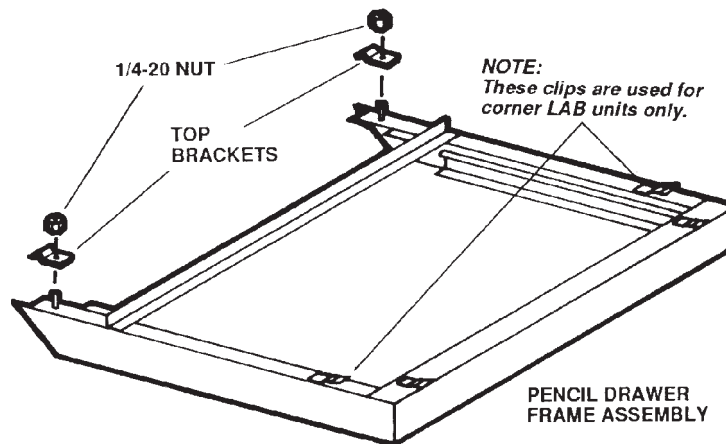
**Refer to Figure 2:**

3.  Determine where pencil drawer is to be located under table and insert back end of frame assembly into back C-channel of table.

**Refer to Figure 3:**

4.  Attach front end of frame to front C-channel using top brackets.

5.  Adjust frame perpendicular to C-channel and tighten down 1/4-20 nuts on top brackets.
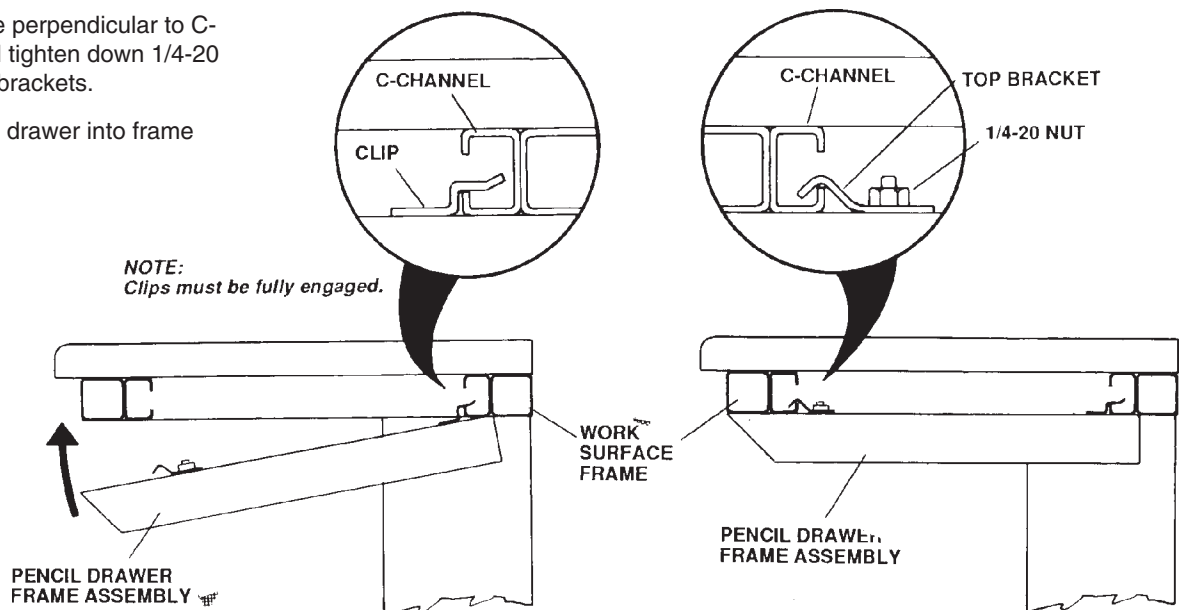
6.  Insert pencil drawer into frame assembly.



*Figure 1*



*Figure 2*

*Figure 3*

# MAX/Lab ®

## *Attaching Pullboard*

**Tools Required:**
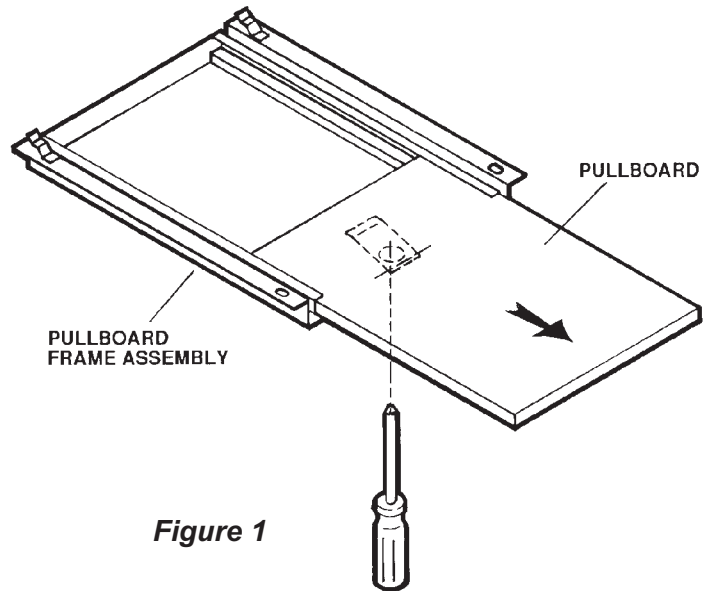
7/16" Wrench.
Phillipshead screwdriver with No. 2
& 3 tips.

**Hardware Included:**

Bag No. 830629 consisting of:
  2  Top brackets.
  2  1/4-20 Nuts.
  2  1/4-20 x 5/8" PPHMS.

**Refer to Figure 1:**

1. Slide pullboard out of frame assembly as far as it will go. Insert screwdriver into 7/8" hole and push tab up while pulling pullboard out.
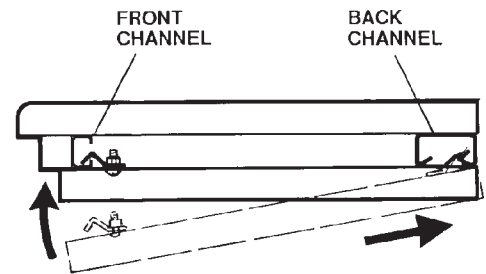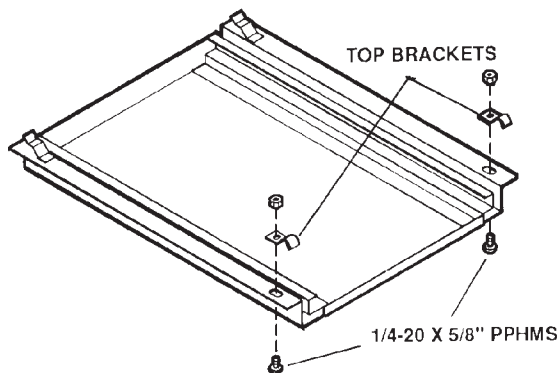
**Refer to Figure 2:**

2. Assemble top brackets and 1/4-20 x 5/8" machine screws to pullboard frame. Do not tighten top brackets at this time.

**Refer to Figure 3:**

3. Insert back clips of pullboard frame into back channel of work surface.

4. Attach pullboard to front C-channel. Tighten top brackets down to C-channel.

5. Insert pullboard into frame.



*Figure 1*



*Figure 2*



*Figure 3*

# *Attaching 24" Wide Adjustable Keyboard Platform*

**Tools Required:**

Electric drill with 1/16" bit.
Phillipshead screwdriver with No. 2
   & 3 tips.

**Hardware Included:**
8   No. 8 x 1" PPHMS.

**For 24" Wide Platform**

**Refer to Figure 1:**

1.  Position front edge of keyboard
    platform mounting template against
    inside of work surface frame.

2.  Secure template in position.

**Refer to Figure 2:**

3.  Drill 1/16" diameter pilot holes at the
    locations marked "A" and "B" on
    mounting template. Drill holes 3/8"
    deep.

4.  Tighten four No. 8 x 1" screws in
    locations marked "A" until half of
    screw protrudes.

5.  Place keyboard arm assembly's four
    keyhole slots over screw heads and
    slide assembly toward back of work
    surface.

6.  When assembly is in desired
    position, tighten the four screws in
    locations marked "A".

7.  Check that tray clears front edge of
    work surface by 1/2" and is parallel
    to front edge.

8.  Tighten four remaining screws in
    location marked "B".

**Caution:** To allow access to mounting
screws, it is necessary to adjust tray
mechanism. Lock tray in place by
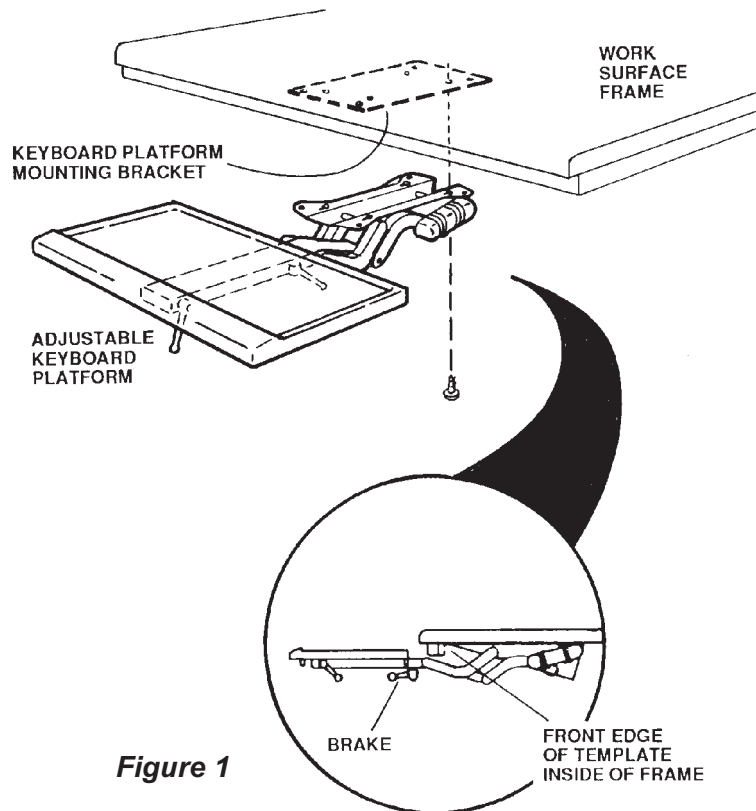tightening brake securely. See Figure 1
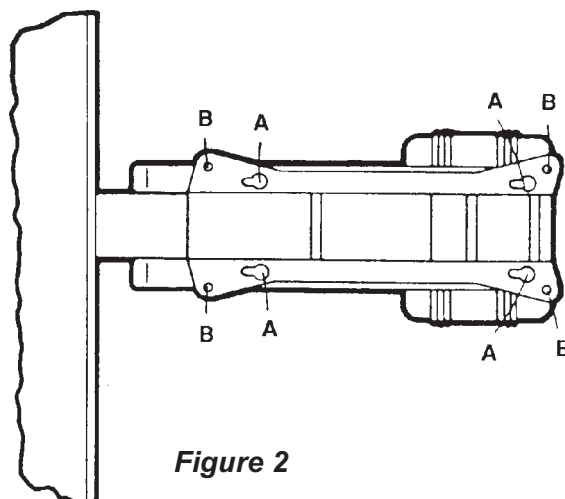explosion.



*Figure 1*



*Figure 2*

# MAX/Lab®

## Attaching 45" Wide Adjustable Keyboard Platform

**Tools Required:**

Electric drill with 1/16" bit.
Phillips head screwdriver, power
driven if available with No. 2 & 3
tips.
9/16" Wrench.
Scratch awl - for starting screws.

**Hardware Included:**

One bag No. 830620, consisting of:
16 No. 10 x 3/4" PPHSMS.

**For 24" Wide Platform**

**Refer to Figure 1:**

1. Turn work surface upside down on
   clean padded surface.

2. Place adjustable keyboard platform
   next to work surface as shown.
   Simultaneously, push both keyboard
   arms down flush to work surface
   top.              Lock in place by
   pulling brake
   handle to the left.
   **Note:** Work surface clamps may
   have to be moved in order to mount
   adjustable keyboard platform to
   work surface.

3. Locate back mounting plate of
   adjustable keyboard against C-
   channel of work surface. Center
   adjustable keyboard platform side-
   to-side with respect to top of work
   surface.

4. Screw down back mounting plates
   with No. 10 x 3/4" machine screws.
   A scratch awl should be used to
   start holes.

5. Turn work surface right side up.

6. Move handle to the left. Adjust
   keyboard platform to desired
   position and lock into position by
   moving handle to the right.
   **Note:** When keyboard does not
   maintain its position when locked in
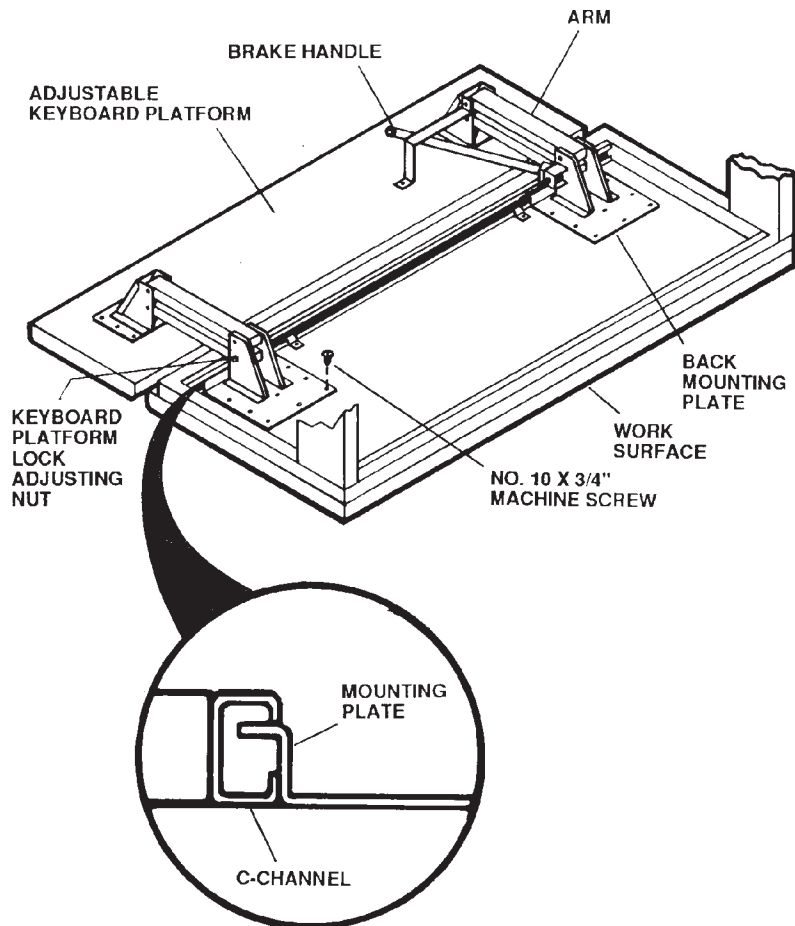   place, tighten 3/8" locknuts with
   9/16" wrench.



*Figure 1*

## *Attaching Monitor Platform*

**Tools Required:**

Electric drill with 7/64" bit.
Phillips head screwdriver with No. 2
   & 3 tips.

**Hardware Included:**

One bag No. 830633, consisting of:
   9   No. 10 x 5/8" PPHSMS.

**Refer to Figure 1:**

1. Locate track on back edge of work surface, keeping top flush with track. Mark location of holes on work surface for pilot holes.

2. Drill 7/64" pilot holes into top.

3. Secure track to work surface with No. 10 x 5/8" PPHSMS.
   **Note:** Upper two holes in track are stops for platform; screw in stop screws until screw head is flush with track. Do not over-tighten screws, causing track to bend inward.
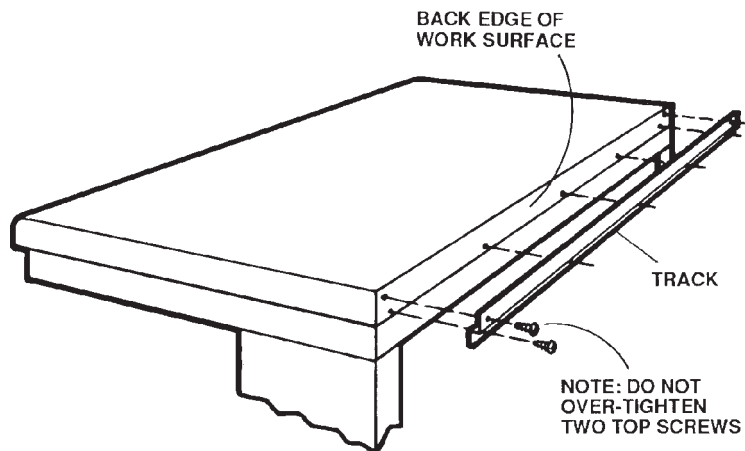
**Refer to Figure 2:**

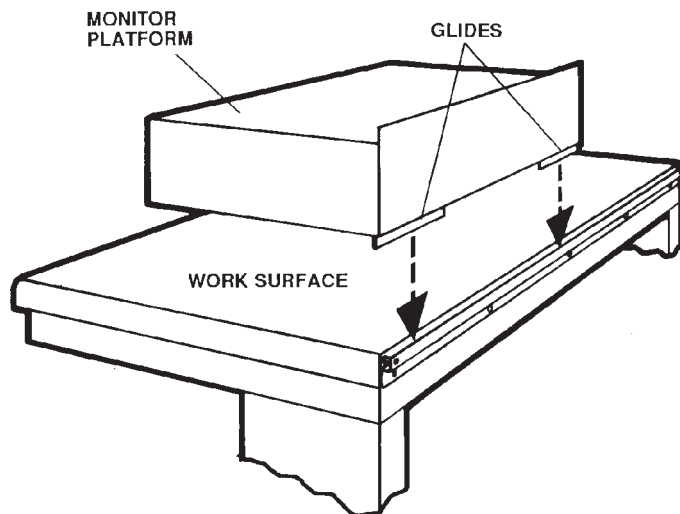4. Set monitor platform so that plastic glides fit into track.



*Figure 1*



*Figure 2*

# MAX/Lab®

## *Attaching Articulating Monitor Platform and Document Holder*

**Tools Required:**
Phillips head screwdriver with No. 2
& 3 tips.
Rubber mallet.

**Hardware Included:**
1   No. 10-32 x 1/2" PPHMS.

**Refer to Figure 1:**

1.  Attach support structure mount only, at desired height, on structural frame                 riser extrusion, and tap with rubber                 mallet to make sure it is seated.
Slots in riser extrusions are spaced at 1" increments.

2.  Insert No. 10-32 x 1/2" machine screw into hole at bottom of support structure mount to secure in place. If screw cannot be driven all the way in, support structure mount is not seated properly.
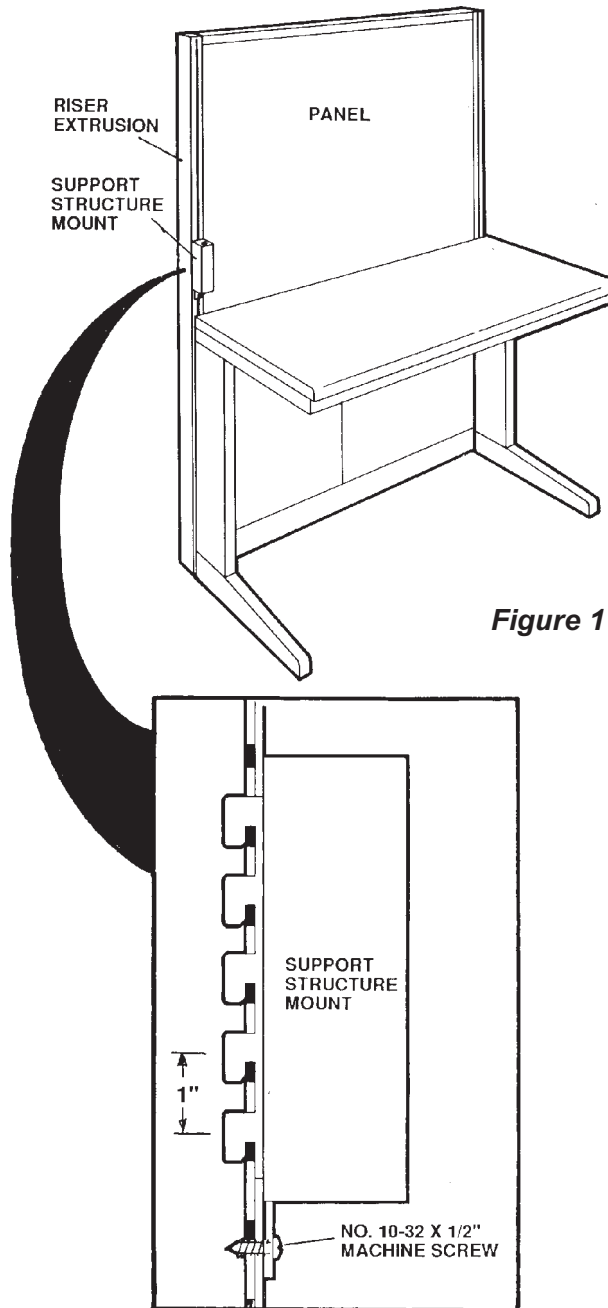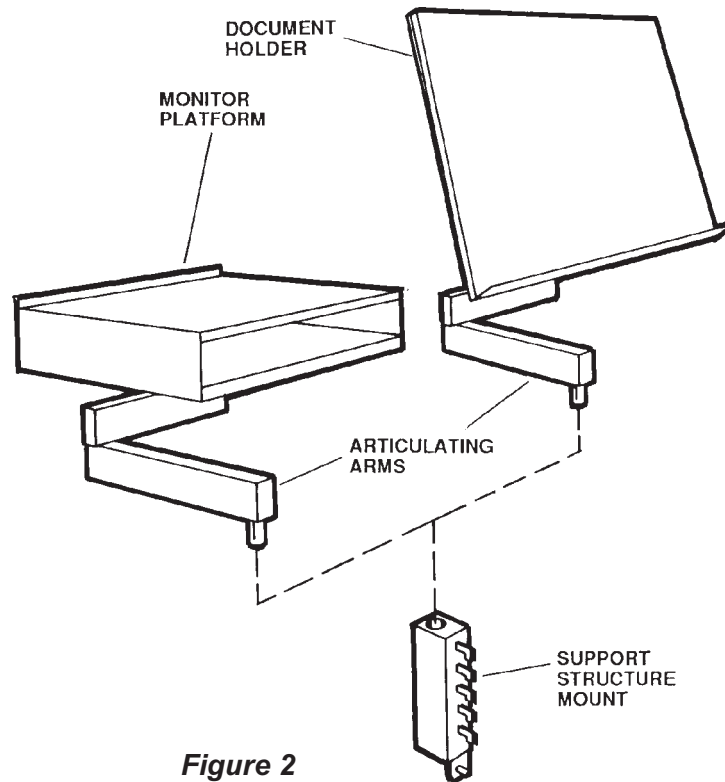
RISER
EXTRUSION

PANEL

SUPPORT
STRUCTURE
MOUNT

*Figure 1*

SUPPORT
STRUCTURE
MOUNT

1"

NO. 10-32 X 1/2"
MACHINE SCREW

## *Attaching Articulating Monitor Platform and Document Holder (Continued)*

**Refer to Figure 2:**

3.  Attach articulating arm to support structure mount.

4.  Attach monitor platform or document holder to articulating arm.

    **Note:** Instructions for table clamp versions of these accessories can be found in shipping cartons.



*Figure 2*