



## World's Fair Bench Assembly

### Required Equipment:

- 7/16" socket ratchet wrench
- Qty 2 - 15/16 wrench - for large nuts
- hammer (for thread ends)
- 2x4 or straight edge as long as bench
- 2' builders square
- Supplied touch up paint

### Unpack and verify parts count.

|                    |        |                                              |                                            |                                    |                                                                                                                 |
|--------------------|--------|----------------------------------------------|--------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 8' L               | 3 legs | 1 round bar 93" L,<br>4 large nuts           | 2 sets cross<br>bracing 45" L              | 9 slats Cumaru<br>wood, 8' L       | 8x 1/4"-20 carriage bolts - 2 1/4" L<br>46x 1/4"-20 carriage bolts - 2" L<br>54x washers, 1/4 nylon insert nuts |
| 4' L<br>Or<br>6' L | 2 legs | 1 round bar 45" or<br>69" L,<br>4 large nuts | 1 set cross<br>bracing 42" or<br>65 3/4" L | 9 slats Cumaru<br>wood, 4' or 6' L | 4x 1/4"-20 carriage bolts - 2 1/4" L<br>32x 1/4"-20 carriage bolts - 2" L<br>36x washers, 1/4 nylon insert nuts |

Stand the legs up and install the tie rod with nuts on both sides of the outside legs leaving all loose for the time being.

Install the wood and x-braces on the backrest. The x-braces go to the rear of the bench, not between the wood and the leg. USE 2 1/4" LONG BOLTS WHERE X-BRACE IS LOCATED. Leave the nuts loose. Remainder of bolt locations use 2" bolts.

Install the wood on the seat. Leave the nuts loose.

Get a straight 2x4 and set it against the front feet of the legs so one foot of each leg is touching the 2x4. This way you can make sure that the legs are lined up. Now, using a 2' framing square, check to see that the legs are at right angles to the 2x4. Also check to see that the legs are plumb. Of course, you must be working on a level floor.

Now, keeping the bench legs all square and plumb and making sure that all the slat ends are even, tighten all the nuts. When you tighten the nuts watch to make sure that you don't tighten them so much that the bolt heads are drawn into the surface of the slat which can happen easily with softer wood. Tighten the bolts evenly on both sides of the leg so that one bolt doesn't make the bench stand crooked.

Inspect the bench from a distance to make sure it looks good and straight.

Touch up the nuts and bolts at the tie rod and anywhere paint has chipped off from handling. This completes the assembly.