



# KENNETH LYNCH & SONS

Est. 1927

## #6733A - 1964 WORLD'S FAIR BENCH WITH RPL (RECYCLED PLASTIC LUMBER) AND BRACING

Unpack and verify parts count 8' Bench:

8' L	3 x legs	6x 'C' channel 43 3/4" L, 2x 3-hole back brace, 2x 5-hole seat brace	8x RPL Slats, 8' L	36x 1/4"- 20 x 2 1/2" carriage bolts, 12x 1/4"- 20 x 2 3/4" carriage bolts, 16x 1 1/2" sheet metal RPL screws & washers, 48x flat washers & nuts
6'L	2x legs	3x 'C' channel 64 3/4" L, 1x 3-hole back brace, 1x 5-hole seat brace	8x RPL Slats, 6' L	26x 1/4"- 20 x 2 1/2" carriage bolts, 6x 1/4"- 20 x 2 3/4" carriage bolts, 8x 1 1/2" sheet metal RPL screws & washers, 32x flat washers & nuts
4'L		3x 'C' channel 40 3/4" L, 1x 3-hole back brace, 1x 5-hole seat brace	8x RPL Slats, 4' L	
				1x T-27 driver bit

NOTES - All Slats are identical; they can be used in any location on the bench. The bolt sizes are not the same, see sketch for layout. The braces (flat bars) are sandwiched between the RPL and channel in the midpoint between the legs.

1. Setup saw horses and lay out 7 slats, ABCD FGH, the order in which you will use them on the bench. See notes on drawing, place 2 3/4" carriage bolts on the inside and 2 middle holes on 3 slats, locations B, D, and G. Hit the head once into the RPL, 'locking' the square into the RPL. Repeat the same in the remaining holes with 2 1/2" bolts.

2. Stand up all 3 legs. Install RPL slat in position 'E'(without bolts already in place - they make it difficult to get the slat in place here.) Using 2 1/2" carriage bolts attach the slat to the legs and loosely attach washer and nut. This will keep the legs from falling over now.

3. Install slat 'D' onto legs, attaching channel underneath with hand tightened washer and nut. Repeat process with slat 'B' and 'G'.

4. Slide brace 'J' between boards and channel on seat.



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5. Install remaining boards into position. Attach all washers and nuts loosely.

Moving on to the back rest

6. Working on a level floor: Use a straight 2x4 x 8' long and set it against the 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 placed on the floor, check to see that the legs are at right angles to the 2x4. Also check to see that the legs are plumb, up and down.

7. Now, keeping the bench legs all square and plumb and making sure that all the slat ends are even, starting in the middle tighten all the nuts. Only for seat boards. 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.

8. Slide brace 'K' between boards and channel on back of bench. Making sure slat ends are even using 1 ½" screw to attach brace to slat 'G'.

9. Now, keeping the bench legs all square and plumb and making sure that all the slat ends are even, starting in the middle tighten all the nuts for back slats. 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.

10. Using small framing square, make sure brace 'K' is perpendicular to slats and secure it in position using 1 ½" screws to slats 'F' and 'H'.

11. Lining up holes in brace 'J' with holes in seat channel, install with the 1 ½" screws. This completes the assembly.



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