

ASSEMBLY INSTRUCTIONS FOR CANTILEVER LADDERS

PARTS LIST

- A.** Stair section
- B.** Top step
- C.** Base weldment
- D.** Vertical
- E.** Diagonal braces – quantity 2
- F.** Rear guardrail
- G.** Upper braces – quantity 4
- H.** Top handrail – left side
- J.** Top handrail – right side
- K.** Lower handrail – quantity 2 for 6-10 steps, 4 for 11 steps and above
- L.** Counterweight components – quantity varies depending on model

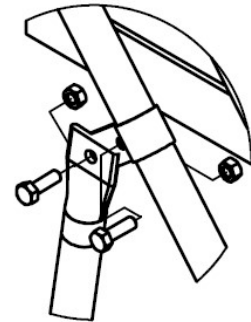
HARDWARE

Item:	Quantity Included:
1. 5/16-18 x 1" bolts	4
2. 5/16-18 x 1-3/4" bolts	4
3. 5/16-18 x 2" bolts	12
4. 5/16-18 x 2-1/4" bolts	20
5. Handrail Brackets	6 or 10
6. 5/16-18 locknuts	52
7. 5" locking swivel casters	2
8. 5" rigid casters	2
9. 5/16 x 5/8 Flange bolts (for casters)	16
10. 5/16 flat washers	90
11. 3/8-16 x 1-1/4" bolts (for counterweight)	10
12. 3/8 locknuts (for counterweight)	10
13. 3/8 flat washers (for counterweight)	20
14. Diagonal brace clamp	2

Counterweights	
Model	Qty
CL-6-14-X	2
CL-6-28-X	5
CL-6-35-X	5
CL-6-42-X	5
CL-7-14-X	2
CL-7-28-X	5
CL-7-35-X	5
CL-7-42-X	5
CL-8-14-X	2
CL-8-28-X	5
CL-8-35-X	5
CL-8-42-X	5
CL-9-14-X	1
CL-9-28-X	3
CL-9-35-X	4
CL-9-42-X	5
CL-10-14-X	1
CL-10-28-X	2
CL-10-35-X	3
CL-10-42-X	4
CL-11-14-X	1
CL-11-28-X	2
CL-11-35-X	3
CL-11-42-X	4
CL-12-14-X	1
CL-12-28-X	2
CL-12-35-X	2
CL-12-42-X	3
CL-13-14-X	1
CL-13-28-X	1
CL-13-35-X	2
CL-13-42-X	3
CL-14-14-X	1
CL-14-28-X	1
CL-14-35-X	2
CL-14-42-X	3
CL-15-14-X	1
CL-15-28-X	1
CL-15-35-X	2
CL-15-42-X	3

Assembly Instructions – Refer to Illustration

1. Unpack your ladder and make sure that all parts are present, using the parts list and the illustration for reference. You should have two people available for the assembly process. Tools required: wrench and socket wrench in 1/2" and 9/16" sizes.
2. The ladder will be assembled on its side. It's recommended that sheets of cardboard or other padding be placed on the floor in the assembly area to prevent scratches to the powder coat.
3. Lay the stair section weldment (A) on its side, and connect the top step weldment (B) to the brackets at the top of the stair section using 4 locknuts (6). Fully tighten the locknuts.
4. Attach the base weldment (C) to the bottom step of the stair section using 4 locknuts (6) and washers (10).
5. Position the vertical weldment (D) so that the top step lies between the two uprights and the upper crossbrace is just under the top step. The holes in the rectangular tubing should align with the holes in the middle of the toeboard, and the bottom of the vertical should fit between the tabs at the back of the base weldment.
6. Use four 2" bolts (3) with locknuts (6) and washers (10) to connect the vertical to the toeboards and the base. Do not fully tighten.
7. Bolt 5" casters (7 and 8) onto the caster plates under base (C) using the flange bolts (9) and lock washers (11). Also use flat washers (10) as needed. Attach the locking swivel casters (7) under the bottom step, and the rigid casters (8) under the back of the base. Fully tighten the bolts.
8. Install both diagonal braces (E), one on each side of the ladder. Attach one end of the brace to the tab on the back of the base, then attach the other end to the stair section using the gray rubberized brace clamp (14) (see detail to right).



Use four 1" bolts (1) with locknuts (6) and washers (10) to attach the brace to the base and the clamp to the stair section. Then attach the brace to the clamp with two more 1" bolts (1), locknuts (6), and washers (10). Do not fully tighten them.

9. Attach rear guardrail (F) to the holes in the sides of the toeboards at the back corners of the top step using 2" bolts (3) with locknuts (6) and washers (10). Orient rear guardrail as nearly perpendicular to top step as possible, but do not fully tighten the bolts.
10. Attach upper braces (G) between the rear guardrail and the vertical uprights on the side of the ladder that is facing up. Use two 1-3/4" bolts (2) with locknuts (6) and washers (10) for the connections to the rear guardrail. Do not fully tighten. Next, use two 2" bolts (3) for the connections to the rectangular tubing. In the next step, you will also connect the upper handrail to the same bolts, so do not add the locknut yet.

11. Install the upper handrail (H or J depending on what side the ladder is lying on) on the upper side of the ladder. Use the same two 2" bolts (3) with locknuts (6) and washers (10) on the connections to the vertical upright. Next, use a handrail bracket (5) with two 2-1/4" bolts (4), locknuts (6), and washers (10) on the end that meets the side of the stair section. The handrail goes on the outside of the stair section, and the bracket goes on the inside. Make sure the round tubing is properly seated in the handrail bracket. Do not fully tighten.
12. Attach the lower handrail (K) to the outside of the stair section in the same manner. The upper end of the lower handrail should be against the bottom of the top handrail. Use four 2-1/4" bolts (4), locknuts (6), and washers (10). Do not fully tighten.
13. Carefully stand up the ladder. Important – Do not climb the ladder yet.
14. Install the counterweight components (L) so they fit securely in the base. Push provided counterweight(s) towards the first step, and secure in place using the 3/8" hardware (12), (13), (14).
15. Make sure the ladder is standing on a level surface (clear away cardboard or wheel to another location if necessary). Walk around ladder, making sure it sits level and isn't skewed. Adjust connections if needed, then fully tighten locknuts once ladder is level and square.
16. Once the connections that can be reached from the ground are tightened up, and after checking that the counterweight is installed, climb ladder carefully to adjust and tighten the rest of the bolted connections.
17. Finish installing the rails and bracing on the other side of the ladder, using the same hardware and positioning as the first side. Make sure handrails are symmetrical from one side of the ladder to the other.
18. Make a final inspection of the ladder to ensure all connections are tightened, counterweight is installed correctly, and the ladder sits level on the floor

CANTILEVER LADDER ASSEMBLY INSTRUCTIONS

SEE ADDITIONAL SHEETS FOR PARTS LIST AND ASSEMBLY STEPS

NOTE - WASHERS (ITEM 10) ARE TO BE USED AT EVERY BOLTED CONNECTION

