

# Redi-Rail Adjustable Stair



## INSTALLATION INSTRUCTIONS

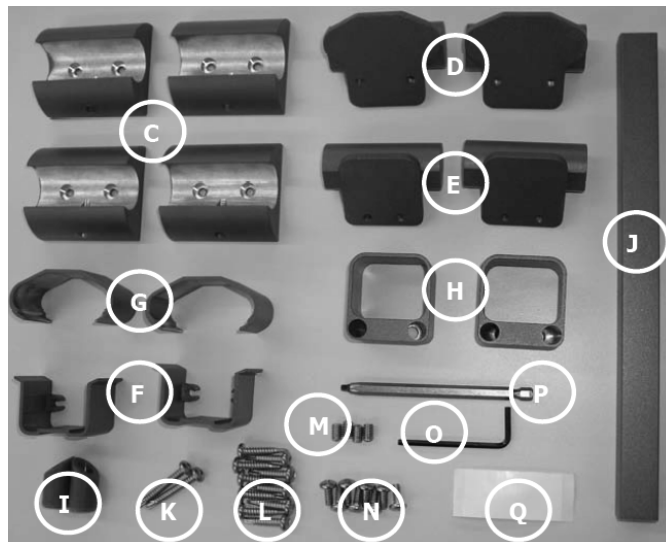


PARTS LIST
A - Top rail with toggles (not pictured)
B - Bottom rail with toggles (not pictured)
C - Rail mount (4)
D - Top pivot plate (2)
E - Bottom pivot plate (2)
F - Saddle bracket (2)
G - Saddle bracket cover (2)
H - Bottom bracket (2)
I - Support block connector (2)
J - Support block material
K - #10 x 1 1/2" self-drilling screws (2)
L - #10 x 1" self-drilling screws (10)
M - 1/4 -20 x 3/8" socket set-screw (4)
N - #10-24 x 7/16" Phillips screw (8)
O - Allen wrench
P - 3/2" #2 square driver
Q - Adhesive tabs

TOOLS REQUIRED
Drill hacksaw
Drill bit 5/32" (.156")
#2 Phillips screwdriver
Level
Tape measure
Rubber mallet
Touchup paint

*Note: Post and balusters are packaged separately.*

REDI-RAIL ADJUSTABLE STAIR



**FOR A SUCCESSFUL INSTALLATION:**

- Read the instructions completely before beginning the installation.
- Plan your railing project. Sketch your project with the actual measurements of your deck or balcony with the location of the posts for the railing that needs to be installed.
- Check local building codes to ensure compliance.
- Installation is best accomplished with two people.
- Wear personal protection equipment; safety glasses, etc.
- Check carton(s) to determine part count is complete.
- After cutting rails, balusters, or posts, paint exposed metal for maximum protection against the elements.
- Use care not to over-torque the screws. Pre-drilling is recommended.

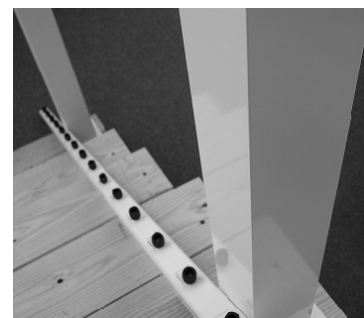
**POSTS:**

1. Begin by determining where the top and bottom post will be located. Mark the desired location of the post.

*NOTE: To ensure post location is compatible with railing, prior to securing to the deck, place both posts in position, and lay the bottom rail along the stair-nosing from top to bottom adjacent to both posts. On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 35" to the top of the post. Post location may have to be adjusted to ensure prescribed minimum is obtained. Repeat this step for the bottom post.*

- For railing mounted 36" high use a 44" post at the bottom of the stairs.
- For railing mounted 42" high use a 54" post at the bottom of the stairs.

*For a wooden deck position the post so the fasteners will go into the floor joists, and make sure the decking is firmly attached to the joists at the location of the posts. If necessary, use wood blocking as reinforcement underneath the decking where the posts are located. Fasteners which hold the brackets to the surface should be able to secure to joist or reinforcement braces, not just the decking itself.*



2. Four 3/8" diameter mounting holes are provided on the base. When final position is determined mark hole locations and remove the post assembly.

3. Drill the marked locations into the decking and reinforcement.

4. Remount the post assembly. Insert fasteners (not provided) then secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate. Do not install the base post trim and post capitals until step 6.

*Note: When installing Redi-Rail Post onto treated wood surface, install ACO pad (included in post kit) between the post base and the treated surface.*

5. Lay the bottom rail (B) on the stair-nosing from top to bottom and adjacent to the posts; baluster connectors facing up. Make a reference mark on the bracket side of both posts at the point where the top of the rail meets the post.



6. Install the base post trim on the upper and lower posts.

7. To mark the top rail mount (C) locations on the posts.

Upper Post

For 36" rail; measure and mark a level line up from the reference mark 33 1/4".

For 42" rail; measure and mark a level line up from the reference mark 39 1/4".

Lower Post

For 36" rail; measure and mark a level line up from the reference mark 34 1/4".

For 42" rail; measure and mark a level line up from the reference mark 40 1/4".

8. To mark the lines for installing the bottom rail mounts, measure down from the upper level line (from step 7) 33 1/4" for 36" rail or 39 1/4" for 42" rail on both the upper and lower posts.

9. To attach the four rail mounts (C), align the screw holes on the four marked level lines and ensure the rail mounts (C) are centered. Mark the eight screw hole locations with a pencil. Pre-drill the holes and secure the rail mounts (C) with self-drilling screws (L).

10. Slide pivot plates (D&E) into rail mounts (C), install set-screws (M), adjust the angle of the pivot plates to align with angle of the stairs and finger tighten set-screws (M) with supplied allen wrench (O).  
*Note: Lower post, bottom pivot plate (E) should be turned so that the screw holes are accessible from the top.*

11. Attach saddle brackets (F) to the top pivot plates (D) with screws (N).

12. Measure the distance between the bottom pivot plates (E). On a flat surface, (use box as a pad to prevent scuffing of painted surfaces), lay top and bottom rails (A&B) side by side with baluster connectors facing up and aligned. Transfer the measurement to the bottom rail; ensure the connectors are properly centered. Mark the top rail (A) 3/8" shorter on each end. Cut the rails.

**ADJUSTABLE STAIR:**

1. Install support block connectors (I) using self-drilling screw (K) to the underside of bottom rail (B).  
*Note: One support block, cut from support block material (J), is recommended for rails measuring 72" in length or less; two support blocks for longer lengths. If one support block is required, install connector (I) at center point of bottom rail (B). If two support blocks are required, install connectors (I) equal distance from each end of the bottom rail (B).*

2. To assemble rail, begin with top rail (A) and insert balusters over pre-installed connectors. Use a rubber mallet to tap the balusters into place.  
*Note: It is recommend to use the box as a pad to prevent scuffing of the painted finish. If installing square balusters, make sure they are properly seated in the slot on the underside of the top rail to prevent twisting.*

3. Attach balusters to bottom rail (B) beginning at one end and working to opposite end. Stand the assembly upside down on the surface of the box and tap the bottom rail with a rubber mallet to secure the balusters in place. Stand assembly upright.

4. Slide bracket covers (G) over each end of the top rail (A) so the angle of the cover will align with the post.  
*Note: Slide a couple of inches from the end of the rail for clearance. A small piece of tape may be required to hold the bracket covers in place.*

5. Slide bottom brackets (H) with the countersunk holes facing toward the balusters, over each end of the bottom rail (B). When installing bottom bracket (H) on the lower post end of the bottom rail (B), turn the bracket so the screw holes are accessible from the top.

6. Set the rail assembly into the saddle brackets letting the bottom rail hang freely between the posts.

7. At the point(s) where you installed support block connectors (step 1), carefully measure the distance from the underside of the bottom rail (B) to the floor. Cut support block material (J) to fit. Slip support blocks over connectors (I). Slide the rail back into place.

*Note: After cutting support brackets, paint exposed metal for protection against the elements.*

8. Slide and hold the bottom bracket (H) firmly against the bottom pivot plates (E) and secure with screws (N).

9. Apply adhesive tab (O) to flat, top surface of top rail (A), near the post. Slide bracket covers (G) to interlock with flange on the saddle brackets (F).

10. Screw self-drilling screws (L) into the top rail (A) from the underside of saddle bracket (F) to securely fasten the rail.

