

# Spiral Stairway Instructions

**\*\*Before beginning installation, you will need to supply your own fasteners to secure the Platform to the upper level structure, as well as the fasteners for the Column and Baluster Baseplates. For all other fasteners please refer to the Hardware list and Fastener Identification Sheet.\*\***

## Step 1: Position and Loosely Fasten Treads

This step is done more easily when positioned in a corner of the upper level.

- ❖ Our treads are numbered from the top down, (See Fig 1) so beginning with the tread labeled with the largest number; slide and lower the treads over the center column.
- ❖ For models D100, D105 & D124; connect the square baluster on each tread to the tread below using the included bolts. See Fig 2 (Finger tighten only at this time.)
- ❖ For Models with Round Balusters, the baluster will slide over the sleeve on the tread below. (See Fig 3)



Fig 1: Tread Numbering



Fig 2: Square Balusters



Fig 3: Round Balusters

## Step 2: Fasten Platform to Upper-Level Structure

- ❖ Place the platform over the center column and fasten to the upper-level structure using fasteners to fit the pre-drilled  $\varnothing 7/16''$  holes. (See Fig 4)
- ❖ Connect the baluster on Tread 1 to the platform using the appropriate fasteners.

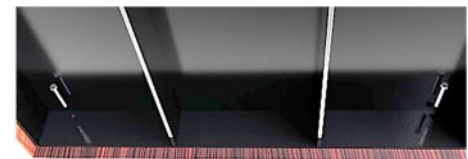


Fig 4: Fastening Platform

## Step 3: Plumb and Secure Center Column

- ❖ Plumb the center column using shims as needed to level the baseplates on both the column and bottom baluster.
- ❖ Once you're confident of the vertical alignment, secure the column and bottom baluster using fasteners to fit the pre-drilled  $\varnothing 3/8''$  holes. See Fig 5



Fig 5: Securing Center Column

## Step 4: Position Handrail

- ❖ Standard Metal Handrail Option See Fig 6
  - Beginning with the bottom section; lower the handrail onto the main balusters. As you go, connect the sections using the included fasteners. (See Fig 7)
  - As you attach each section of handrail, a wood block and hammer may be needed to seat the sleeves onto the balusters.
- ❖ Wood Handrail Option
  - Our Wood handrail sits on  $3/4 \times 1''$  Flat bar and the installation begins using the same technique as the metal handrail.
  - Once the flat bar portion of the rail is installed, start at the bottom, and attach the wood rail sections to the flat bar rail using the included wood screws. While mounting the top section of handrail, glue the two sections together and connect with the hanger bolt. Install the star nut assembly through the 1" access hole and tighten with a hammer and flathead screwdriver.
    - Fasteners will need to be provided by you if using your own wood handrail.
- ❖ Round Handrail Option
  - Round handrails connect to the main balusters a lot like both the Metal and Wood handrails. (See Fig 8) Starting with the bottom section lower the handrail onto the baluster. As you go, connect each section at the splice point using the included fasteners. (See Fig 9)



Fig 6: Standard Metal Handrail



Fig 7: Metal Handrail Splice



Fig 8: Round Handrail



Fig 9: Round Handrail Splice

## Step 5: Tighten Tread Fasteners

- ❖ Fully tighten the fasteners that were installed in Step 1. (See Fig 10)

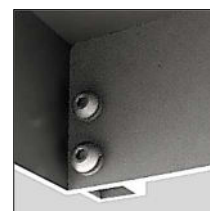


Fig 10: Tread Fasteners

## Step 6: Fasten Metal Handrail Sections

- ❖ Using the included ¼-20 X ½" Button head screws, and ¼" lock washers, fasten the metal handrail sections to the main balusters. See Figures 11.1 & 11.2

## Step 7: Inject Silicone

- ❖ If your stair comes with loose mid balusters, you will need to use one of the following steps to prevent them from rattling.
- ❖ For square balusters: Using clear silicone; inject enough silicone into the mid-baluster sockets to get a good seal. Wipe away any excess after inserting the balusters. See Fig 12
- ❖ For round balusters with round handrail: You will need to use a center punch to dampen vibration. Tap the punch at a point on the handrail about 1/16" away from the mid baluster. See Fig 13

## Step 8: Fasten Mid-Balusters

- ❖ After inserting the baluster into the socket, place a spacer between the baluster and tread and attach using the provided 10-24 flange nut.

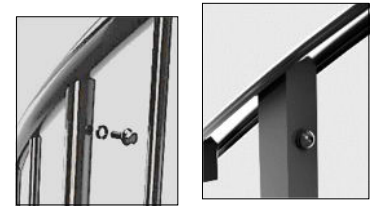


Fig 11.1 & 11.2: Rail Fasteners



Fig 12: Injecting Silicone



Fig 13: Center Punch

Fig 14: Fastening Mid-Balusters



**Note: Steps 9-10 are optional based on the options you chose for your stair.**

## Step 9: Align and Fasten wood covers

**Note:** Wooden Tread and Platform covers come unfinished from the factory and should be sealed completely and promptly to avoid warping and cracking.

- ❖ Tread Covers
  - Align the covers with the tread frame and touching the balusters. Position wood covers so that they are evenly centered on the tread. The wood treads should overlap the metal form equally on both sides. After drilling pilot holes, secure the cover to the frame using the included #9 X 1" buglehead screws. (See Fig 15)
- ❖ Platform Cover
  - Lower the platform cover on to the platform frame so the cover is flush with the sides, and with an overhang of 1" on the edge stepping down on to the first tread. Attach the platform using the pre-drilled holes and supplied #9 X 1" screws. (See Fig 16)
    - Fasteners will need to be provided by you if using your own wood tread and platform covers

Fig 15: Wood Tread Cover



Fig 16: Wood Platform Cover

## Step 10: Install Tread Risers

- ❖ Many codes require a gap of no more than 4" between treads. If this is the case for your stair, our optional risers would solve that problem. The majority of the styles we offer will bolt through the front of the tread using the supplied ¼-20 X 1-1/4 Button head, ¼ flat and lock washers and a 1/4" nut. (See Fig 17) Stairs with solid wood treads will screw up into the cover using the supplied #9 x 1-1/4" Screws. (See Fig 18)

## Step 11: Touch up Paint for minor scratches

Note: It is recommended to practice on a less visible area first.

- ❖ Scratches and scuffs may appear during shipping. For most colors your stair will come with touch-up paint. (If using a custom color – a local color match may be needed.)
- ❖ Keeping the repair area as small as possible, sand the area with 120-grit sandpaper. Wipe off any dust or residue and brush or daub paint on.
- ❖ If bare metal is exposed after sanding:
  - ❖ Prime the area of bare metal and dry according to primer directions. Sand out the brush marks before adding the topcoat.

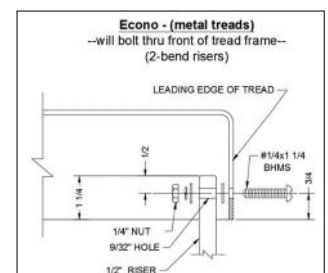


Fig 17: Metal Tread Risers

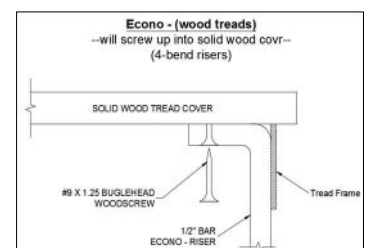


Fig 18: Wood Tread Risers