



Kit Stair Installation

Standard kit stair – Steel or Aluminum

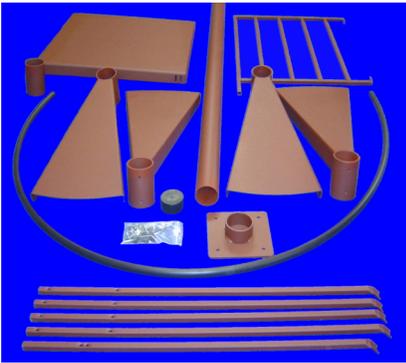


Fig. 1.a

Receiving your Order

When you receive your kit stair, unpack it and make sure you have received all of your parts according to your proposal order we have sent you. It will show you the number of treads; balusters; landing; handrail and guard rail. (Fig. 1.a)

Tools needed for installation

There are no specialty tools needed for this installation. You will need a drill & drill bits (1/8", 3/8", and 5/16"); hammer; level; measuring tape; flat head screw driver; a tri-square (optional) and small set of tools (wrenches and socket set).



Fig. 1.b

Getting started

Step one:

Stand center column in the opening and slide treads, pan face down (flat surface up), onto the column. The treads are all the same. Partially tread set screws into treads making sure to slide the landing on last. (Fig.1b)



Fig. 2.c

Installing the stair

Step two:

Slide the landing platform over the center column to the desired finish floor height. (If your stair takes a wood overlay lower the landing by that thickness of the wood overlay). Using the lag screws supplied, attach the landing flush with the finish floor. Level the center column and attach the base plate to the floor with anchors supplied. Next level the landing and tighten the set screws. (Fig. 2.c)



Fig. 2.d

Step three:

Starting with the top tread, place a baluster in the slot closest to the landing and attach the baluster to the tread with a $\frac{1}{4}$ " x $1\frac{1}{2}$ " carriage bolt, nut and washer supplied. Make sure that the flange on the top of the baluster is facing away from the tread. (Fig. 2.d)



Fig. 3.e



Fig. 3. 1- f



Fig. 3. 2- f

Step four:

Align the top tread up to the proper riser height listed in the order. If your tread has wood overlay, lower the tread by the thickness of the wood overlay. The riser height is measured from the top of the landing to the top of the tread below. Next level your baluster and bolt it to the landing and then level the tread and tighten the set screws on the sleeve. (Always bolt balusters first and the set screws on the sleeve last). (Fig. 3.e)

Step five:

Slide the next tread up and follow the procedures in Step four. Continue this procedure with the remaining treads. The last baluster only has one bolt. Level it and fasten to tread and to the floor by using the 3/4" shoe and anchor bolts supplied.

Your stair should look like this (Fig. 3..e)

Step six:

Next lay your handrail on top of the balusters making sure you leave enough overlap on both ends of the rail to be trimmed off later. Starting in the middle of the stair where the handrail splices meet drill a pilot hole with a small drill bit (1/8") from underneath the baluster into the handrail, make sure you leave enough room for the center baluster if your order has them.. (Fig. 3. 1-f)

Next change the drill bit to a 3/8" socket and screw in the self tapping fastener (making sure not to over tighten). (Fig. 3. 2-f)

Follow the same procedure for the balance of the balusters working your way to the top baluster.



Fig. 4.g



Fig. 4. h



Fig. 5.i

At the ends of both sides of the hand rail it may be necessary for you to open the hand rail if it is a little tight of a radius. (Fig. 4. g) And fasten the bottom baluster (on the first tread) last making sure it is plum.

Step seven

Cut the ends of the handrail approximately 1/2" away from the bottom and top baluster and insert plastic end caps. (Fig. 4. h)

Step eight:

The next process is to attach the landing rail or rails. Place the landing rail on the side of your stair which is required by your order and using the self drilling and tapping screws supplied, fasten the top of the landing rail to the center column at a position 36" above the landing. After the top of the landing rail is attached, drill a 5/16" hole in the outside rail post from underneath the landing slot and bolt with a 1/4" x 1 1/4" carriage bolt supplied. (Fig. 5. i)



Fig. 5.j



Installing the wood overlay (Optional)

After you have installed the landing; treads; balusters and handrail and guard rail, it is time for the wood overlay.

(Make sure you have allowed for the thickness of the wood during the installation of your metal landing and treads).

Landing

Drill a 5/16" hole on top of the landing approximately 2" away from each corner and place wood overlay on top of the steel landing and fasten from underneath with the screws supplied. (Fig. 5.j-1)

Treads

As before you will need to drill holes on top of the metal treads for the wood overlay. This time you will need to drill three 5/16" holes.

From the widest part of the metal tread drill a 5/16" hole approximately a 1 1/2" away at each corner.

Next drill a 5/16" hole at the smallest part of the metal tread by the pipe sleeve approximately 3" away in the center.

Place the wood overlay on top of the steel tread and fasten from underneath with screws supplied.

Follow the same procedure for the balance of the treads. (Fig. j-2)

Installing the center balusters



Fig. 6

Before you begin to install the center balusters, mark a line from the holes on your tread to the outer edge. Some treads require more balusters than others depending on what you ordered for your application.

(Fig. 6)



Fig. 7

Next you will need some help for this application, have someone hold the top of the baluster with a measuring tape making sure you have equal distance on both sides of the balusters. (Fig. 7)



Fig. 8

While the other person holds the top baluster you hold the bottom baluster dead center on the line you marked earlier and mark a line with a pencil across the $\frac{3}{4}$ " tubing. (Fig. 8)