100 Series AFCO-Rail Adjustable Stair Rail



INSTALLATION INSTRUCTIONS



PARTS INCLUDED:							
TOP RAIL WITH TOGGLES (1)	BOTTOM RAIL TOGGL	BOTTOM RAIL TOGGLES (1)		TOP RAIL HINGE ASSEMBLY (2)		BOTTOM RAIL HINGE ASSEMBLY (2)	
A	and the second se	Carland and a series of the se		C			
SADDLE BRACKETS (2)	ADDLE BRACKETS (2) SADDLE BRACKET COVER		BOTTOM BRA	скет (2)	10" SUPPO	DRT BLOCK (1)	
E	F		G		H		
	0 x 1" self drilling rews (12)	#10 –24 x 7 screws (8)	7/16 PHILLIPS 3 1/2" SQUARE I		DRIVER BIT ADHESIVE TAB		
			A A				
TOOLS REQUIRED:			NOTES:				
Drill bit 5/32″ (.156") Drill (with adjustable clutch, recommended) Miter Saw (with metal cutting blade) Level Phillips Screw Driver Rubber mallet			• Post ar	nd balusters pa	ckaged sep	parately.	

Tape measure

Touch-up paint

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 complete with post locations.
- Check local building codes to ensure compliance.
- Check carton(s) to determine part count is complete.
- After cutting rails, balusters, or posts, paint exposed metal for maximum protection against the elements.
- Installation is best accomplished with two people.
- Wear personal protection equipment; safety glasses, etc.
- Use care not to over-torque the screws. Pre-drilling is recommended.
- Provided hardware to install AFCO-Rail is for use with Aluminum AFCO-Rail posts. If installing to other surfaces the installer must acquire the appropriate hardware as needed for proper installation.

POSTS INSTALLATION:

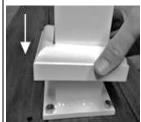
 Determine the location and position of the upper and lower post based on the project layout. Mark the desired location of the posts. To ensure post location is compatible with railing prior to securing to the deck surface, place both posts in position, and lay the bottom rail along the stair from top to bottom adjacent to both post (see photo). On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 34-1/2" for the 36" rail height and a minimum of 40-1/2" for the 42" rail height to the top of the post. Post location may have to be adjusted to ensure 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 location of the posts, 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, into at least 3" of solid wood. 	
2. When the final position is determined for the post, mark the hole locations of the four 3/8" diameter mounting holes provided on the base and remove the post assembly. Drill the marked locations into the decking and reinforcement using the proper size drill required for the fasteners being used.	
 3. Remount the post assembly. Insert the appropriate fasteners 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 re-install the base post trim until step 2 of the rail installation. Note: When installing AFCO- Rail Post onto treated wood surface, install the provided ACO pad that is included in the post kit between the post base and the treated surface. 	

ADJUSTABLE STAIR INSTALLATION:

1. Lay the bottom rail (B) on the stair from top to bottom and adjacent to the posts previously installed. Make a reference mark with a pencil on the bracket side of the post the brackets will be mounted on (both the upper and lower posts), at the point where the top of the rail meets the post. Additional reference marks will be placed on the posts to locate the Bracket Assemblies (C&D) in step 3 using the reference table. *Note: Illustration photo shown is the upper post.*

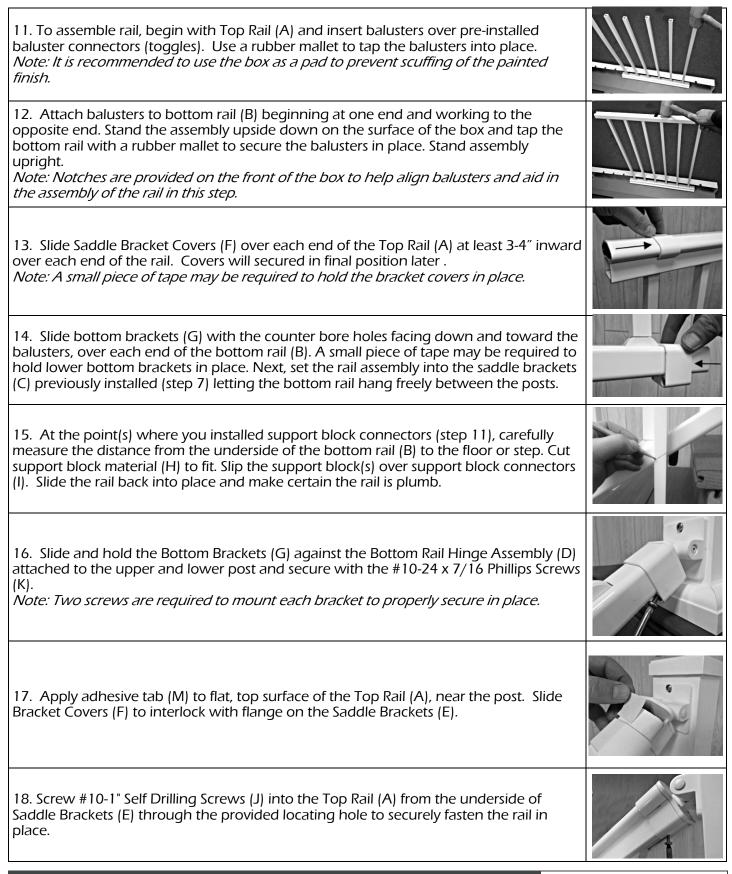
2. Install the base post trim on both the upper and lower posts.





INSTALLA	PAGE 3				
3. To mark t locations or bracket side	naparanganan 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				
Upper Post			Lower Post		Sa the
	Bottom Rail Hinge	Top Rail Hinge	Bottom Rail Hinge	Top Rail Hinge	
36" Rail	Down 1/2"	Up 32-1/2"	Up 1/2"	Up 33-1/2"	La
42" Rail	Down 1/2"	Up 38-1/2"	Up 1/2"	Up 39-1/2"	
4. To locate Bottom Rail marks from This will be <i>Note: Pre-di</i>	+				
5. Using the the Bottom and/or pre- amount of a <i>Note: Two s</i> <i>Depending</i> <i>disassemble</i>					
6. Attach th #10-24 x 7/ <i>Note: Two s</i>					
7. Align the other, and r Assemblies					
8. On a flat the Top Rail facing upwa Ensure the I <i>Note: There</i> <i>connector (</i>					
9. Now ma marked also top and bot <i>Note: There</i> <i>connector (</i>					
underside o Note: One s measuring . port block is (B). If two st	apport block conner of bottom rail (B). <i>Support block, cut fi</i> 72" in length or less or required, install su support blocks are re- end of the bottom re-	rom support block i ;; use two support l pport block connec equired, install supp	<i>material (H), is recon blocks for longer ler ctor (I) at center po</i>	mmended for rails ngths. If one sup-	

INSTALLATION INSTRUCTIONS CONTINUED



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AFCO Form AR16 4/2016

For more information, contact Customer Service at 1-800-599-9912 or visit our website at www.afco-ind.com.