



## INSTALLATION GUIDE

### F - Series



# **IMPORTANT - READ THIS FIRST**

- **Inspect stair for any damage prior to installation.**
- **Stair is NOT to be installed while home is under construction and used as a construction stair.**

**Failure to follow these guidelines can result in damage to the stair and will void the warranty.**

**If you have any problems or concerns with stair, call SP Partners LLC immediately at 877-369-6996**

## Tools / Materials Required

Drill, tape measure, crescent wrench, wood shims, ladder, lumber with same dimensions as joists, keyhole saw or utility knife to cut ceiling material and hacksaw or steel cutting blade if cutting stair to length is necessary.

## Parts Included

- (4) Steel hangers and nuts for 60" long models, or
- (6) Steel hangers and nuts for 75" long models



Sectional metal pole with hook



- (2) Steel hand holds
- (2) Hex head bolts and nuts
- (2) Phillips head bolts and nuts



Anti-slip strips for stair treads



**Read instructions carefully and completely before beginning installation.**



Warning

- \* Installer should be experienced in the construction or modification of structural framing supports. Improper installation can result in stair collapse and bodily injury.
- \* Determine location of electrical lines or plumbing before cutting ceiling.

**Table A**

Model #	Rough Opening Dimension	Stair Frame Dimension	Tread Width	Unit Weight	Floor-to-Ceiling Height Range	Stair Projection (Page 4)	Landing Space (Page 4)
F2260-8	22 1/2" X 60"	22" X 59 1/2"	10"	111 lbs.	7' - 4" to 8' - 4"	8"	63"
F3060-8	30" X 60"	29 1/2" X 59 1/2"	17"	123 lbs.			
F2260-9	22 1/2" X 60"	22" X 59 1/2"	10"	117 lbs.	8' - 2" to 9' - 4"	13"	67"
F3060-9	30" X 60"	29 1/2" X 59 1/2"	17"	130 lbs.			
F2260-10	22 1/2" X 60"	22" X 59 1/2"	10"	124 lbs.	9' - 4" to 10' - 4"	18"	66"
F3060-10	30" X 60"	29 1/2" X 59 1/2"	17"	138 lbs.			
F2260-11	22 1/2" X 60"	22" X 59 1/2"	10"	131 lbs.	10' - 8" to 11' - 2"	21"	69"
F3060-11	30" X 60"	29 1/2" X 59 1/2"	17"	146 lbs.			
F2260-12	22 1/2" X 60"	22" X 59 1/2"	10"	135 lbs.	11' - 8" to 12' - 2"	27"	73"
F2560-12	25 1/2" X 60"	25" X 59 1/2"	12 3/4"	140 lbs.			
F3060-12	30" X 60"	29 1/2" X 59 1/2"	17"	153 lbs.			
F2275-13	22 1/2" X 75"	22" X 74 1/2"	10"	153 lbs.	12' - 6" to 13' - 4"	17"	77"
F2575-13	25 1/2" X 75"	25" X 74 1/2"	12 3/4"	159 lbs.			
F3075-13	30" X 75"	29 1/2" X 74 1/2"	17"	173 lbs.			
F2275-14	22 1/2" X 75"	22" X 74 1/2"	10"	159 lbs.	13' - 3" to 14' - 4"	24"	80"
F2575-14	25 1/2" X 75"	25" X 74 1/2"	12 3/4"	164 lbs.			
F3075-14	30" X 75"	29 1/2" X 74 1/2"	17"	176 lbs.			
F2275-15	22 1/2" X 75"	22" X 74 1/2"	10"	165 lbs.	14' - 8" to 15' - 4"	30"	87"
F2575-15	25 1/2" X 75"	25" X 74 1/2"	12 3/4"	172 lbs.			
F3075-15	30" X 75"	29 1/2" X 74 1/2"	17"	182 lbs.			

## Locating The Stair

Determine whether the chosen location allows sufficient “projection” and “landing space” for your unit. See Figure 1 and 2 below and TABLE A on page 3.

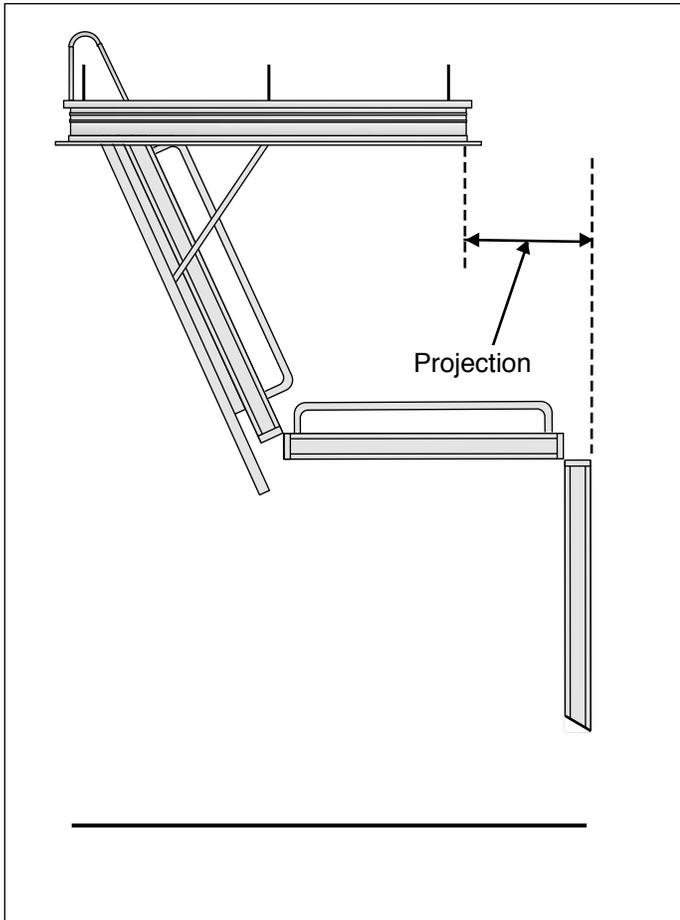


Figure 1

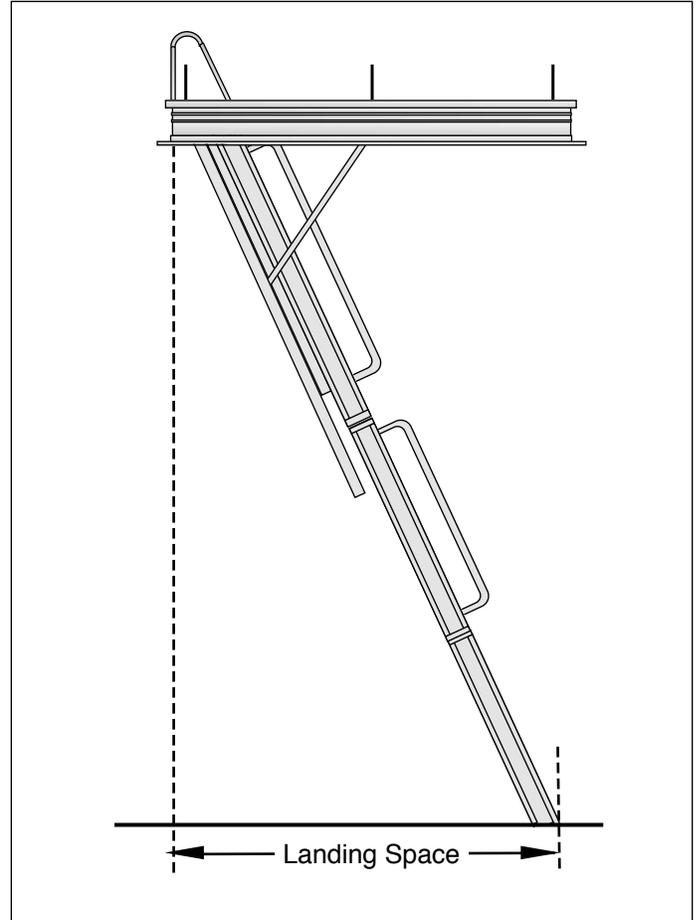


Figure 2

## Preparing The Rough Opening



\* Mark out the rough opening size for your unit according to TABLE A. **Note that the finished metal trim extends beyond the rough opening about 1 1/2” when the unit is installed. Allow clearance for this on all four sides.**

\* Cut the rough opening through the ceiling material.

## Framing The Opening



Warning

If your attic framing consists of prefabricated trusses, **DO NOT CUT WITHOUT CONSULTING AN ENGINEER AND OBTAINING APPROVAL.**

- \* In framing the rough opening, one or more joists (beams) will need to be cut, depending on orientation of the ladder (parallel or perpendicular to the joists.) In either case joists to be cut must be supported on both sides of the opening before cutting.
- \* Cut and securely nail headers (blocking) of the same joist dimensions to the joists as shown in Figures 3 and 4. Be sure to nail all cut joists to headers. When installing perpendicular to joists as in Figure 4, it is advisable to double up the headers for more strength and rigidity.

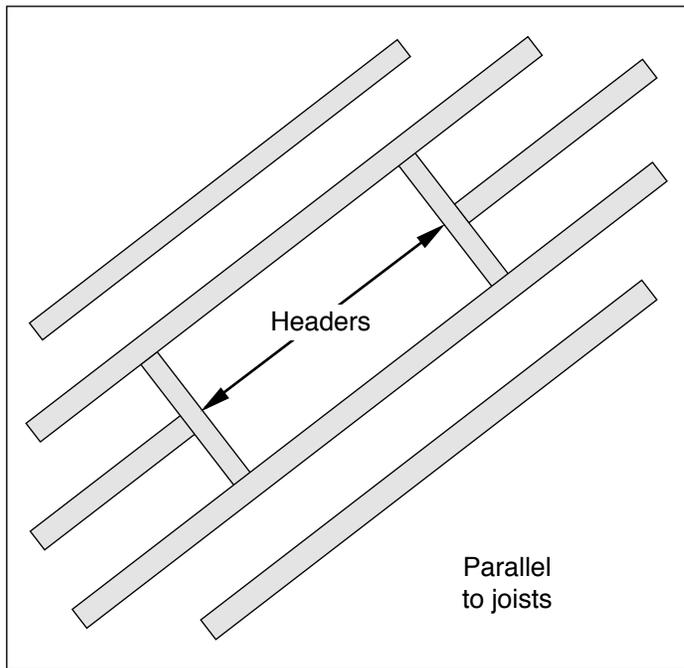


Figure 3

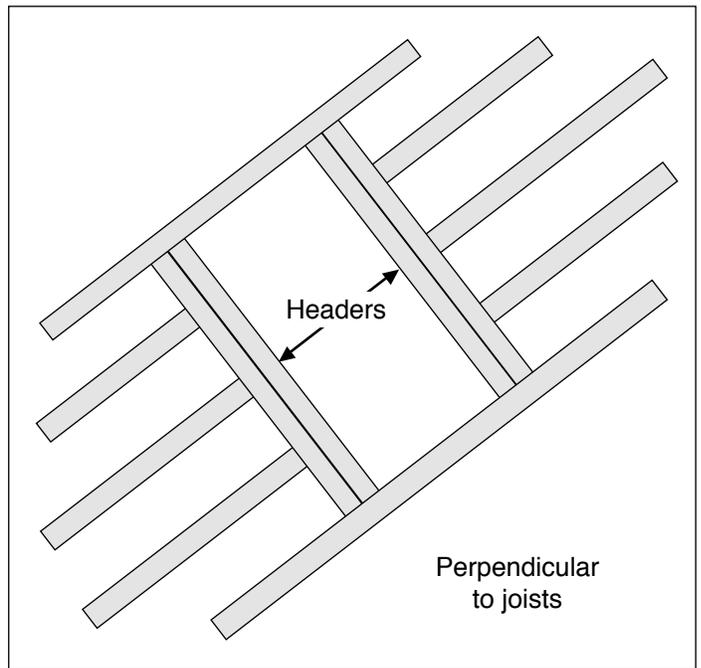
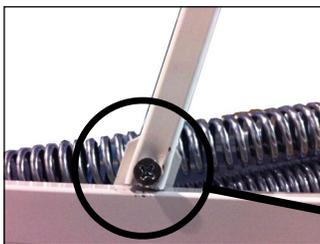


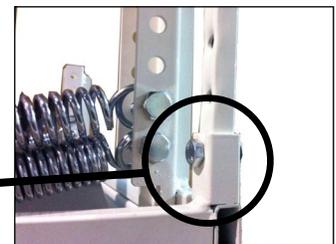
Figure 4

## Preparing The Stair

Attach handrails to top of stair frame as shown below using hardware provided.



Phillips head bolt



Hex head bolt

## Installing The Stair



Warning

- \* There should be adequate light in the attic to work safely.
- \* Be sure the attic stair door is closed and securely latched.
- \* Due its weight, two additional helpers should be used to raise stair into opening.



Figure 5

- \* Person in attic should have steel hangers and nuts ready.
- \* Have two additional helpers lift stair into the opening from below until the tops of the threaded rods clear the top of the joists.
- \* Slide joist hangers over rods and thread nuts down without tightening fully. With all hangers in place, helpers can let go of stair. See Figure 5.
- \* Square the stair frame to opening while maintaining an even gap all around between frame and joists.
- \* Tighten nuts in stages all around but **DO NOT OVER TIGHTEN** as this may distort the metal trim. Shim as necessary to keep stair square.
- \* Door can now be opened from below but, **DO NOT UNFOLD OR STAND ON STAIR YET.**

## Adjusting Stair Height

**NOTE:**

Each F Series ladder is already set up for its standard height. For example, F10 series is already adjusted for a 10' height, F11 for 11' height, etc. Each model can be adjusted "higher" by 4" except for the F11 and F12 models which can only be increased by 2". To shorten a stair below its standard height it will need to be cut. See details that follow.

### To Lengthen Stair

- \* First, unfold stair to ground. See operating instructions on page 8.
- \* Lock sections together with latch. See Figure 6.
- \* Loosen the 4 height adjustment nuts on plate under ladder section and pull stair assembly down until it is fully flat on the ground. See Figure 7
- \* Re-tighten height adjustment nuts.



Figure 6

**Note:**

Models F8 to F12 have only one section latch.

Models F13 to F15 have two.



Figure 7

## Adjusting Stair Height - continued

### To Shorten (Cut) Stair

- \* Using a straight-edge, measure on the front side of the stair from point "A" to floor. Figure 8.
- \* Transfer measurement to front side of last section and make cut at the same angle as bottom foot so it will rest flat on floor. Figure 9.
- \* Remove black plastic floor bumpers on cut leg and re-install on stair.

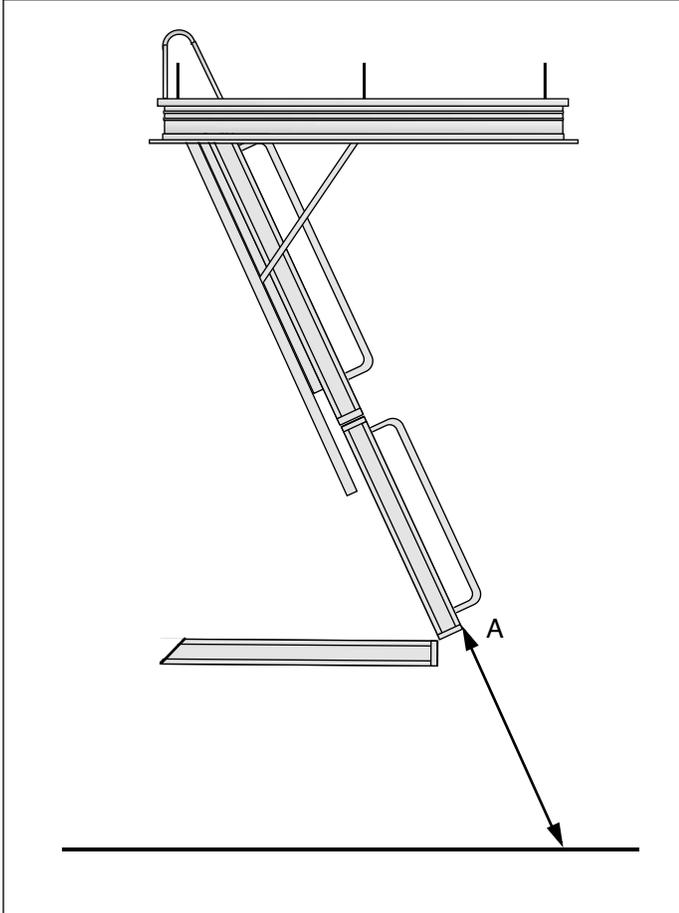


Figure 8

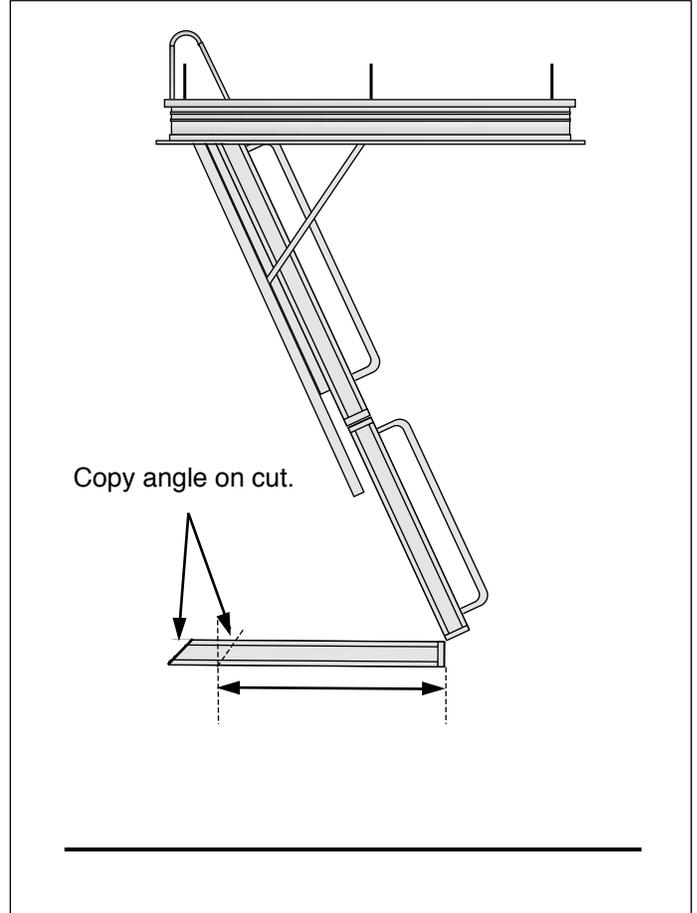
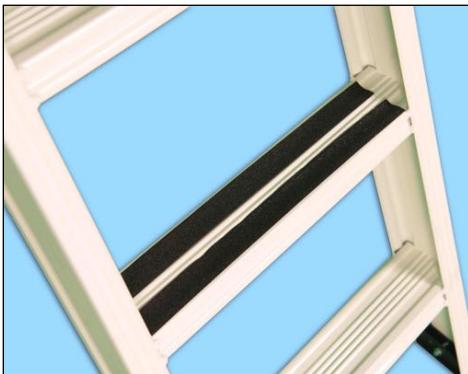


Figure 9

## Apply Self-Adhesive Anti-Slip Strips



Apply two anti-slip strips to each tread as shown at left.

## Operating The Stair

### To Open Stair

- \* Using pole provided, hook into latch on face of door and pull to disengage. Pull door all the way down until it stops.
- \* Stand back from stair and Insert hook into ring under the bottom tread.
- \* Pull slowly until the bottom tread can be reached by hand.
- \* Lower stair to the ground and lock the section latches.

### To Close Stair

- \* Unlock the section latches.
- \* Grab bottom section of stair and lift to begin folding the ladder.
- \* When high enough, hook into ring on bottom step with pole and continue to lift and guide stair until fully folded on the door.
- \* Hook into latch on door with pole and push door all the way up until door latch engages and is secure.

## Maintenance and Periodic Inspections

The Rainbow attic ladders require very little maintenance.

It is nevertheless advisable to periodically check for proper functioning by visually inspecting the main parts and devices. Under normal use, please follow the maintenance plan indicated in the table below.

**Note: For more frequent or heavy use of the ladder, such as in commercial applications, it is recommended that all periodic maintenance / inspection items be performed on a regular, three month basis.**

Maintenance / Inspection	Frequency in months		
	3	6	12
Check the state of wear and fastening of treads	X		
Check for proper functioning of parts		X	
Check the condition of spring anchors for deformation		X	
Check lubrication of all the moving parts			X
Check for loose bolts and tighten (do not overtighten)			X
Check for corrosion, deterioration or excessive wear of parts			X

### **IMPORTANT:**

- Extraordinary maintenance such as fault repairs, spring tension adjustment, parts removal and replacement must be carried out by skilled professional persons.

## ***Congratulations!***

***You are now ready to begin using your Rainbow Attic Stair. As with any product, be sure to follow instructions for safe, efficient and trouble free operation for years to come.***

***\*\* Children should never be allowed to operate or climb any attic stair \*\****

### **LIMITED WARRANTY**

*SP Partners, LLC warrants that the unit will be free from any defects in material and workmanship for one year from purchase date provided that the stair is installed in compliance with the preceding instructions and operated and maintained in accordance with these instructions and applicable warnings.*

*This warranty specifically excludes any and all non-defect damage, any and all damage, injuries and losses arising from improper installation of this product, unreasonable use to include exceeding the specified weight limitations, and any and all labor charges incurred for removing or reinstalling a repaired stair unit or any of its components.*

*During the warranty period stated, should the stair unit or any of its components exhibit a manufacturing defect please first call SP Partners, LLC at 877-369-6996 before dismantling the product in order to determine the extent of the defect and what course of action needs to be taken to correct the problem. A proof of purchase will be required in all cases.*

### **ADDITIONAL EXCLUSIONS**

*SP Partners, LLCs above-stated express limited warranty is being made in lieu of all implied warranties of any kind, including those as provided by the Uniform Commercial Code for merchantability of the product and for fitness of the product for a particular purpose. All such implied warranties, including those of merchantability and/or fitness for a particular purpose, are excluded and disclaimed. Furthermore, all claims for consequential damages and for incidental damages that may arise from a breach of the above-mentioned express warranty are also excluded. In no event shall SP Partners, LLC be liable for any breach of warranty and/or for any negligence and/or for any strict liability which would exceed in damage amount the cost of the stair unit.*

*No representative or person is authorized to assume for SP Partners, LLC, any responsibility which would be either an alternative to or in addition to the express product warranty as stated above. This warranty gives you certain specific legal rights as were set forth above and any other rights that may vary from state to state. If any portion of this express warranty is deemed to be unenforceable at any time hereafter, any such provision shall be severed from this agreement, but all other terms, conditions and provisions shall remain in full force and effect.*

## **SP Partners, LLC**

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