

AC4000 Patio Cover Parts List

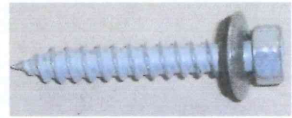
**Parts A
Tools Needed**



**Part B
Mounting Rail**



**Part C
1-1/2" Lag Bolt w/Washer**



**Part D
3" Weather Stripe Tape**



**Part E
Left Side Starter Pan**



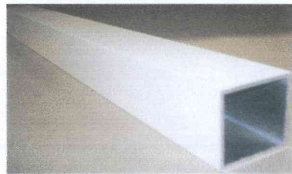
**Part F
Pan(s)**



**Part G*
Set Back Channel***



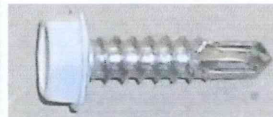
**Part H*
Post*: 1-1/2" x 1-1/2" Sq.
by 8',10', or 12' Lengths**



**Part I*
Bottom Post Flange***



**Part J
5/16" x 3/4" Self-Tapping Screw**



**Part K
10-16 x 5/8" s.s. w/Washer**



**Part L
Front Gutter**



**Part M
Right and Left Side Fascia**



**Part N
Corner Piece**



**Part O
Outlet Tube**



**Part P
A-Elbow**



**Part Q
Gutter Hanger**



**Part R
Mounting Rail Cap**



**Part S
Bolt & Nut**



* Depending on the size of the Patio cover, there may be multiples of these parts .

AC4000 Patio Cover Installation Instructions

Instructions are for installing Patio Cover on wood framing. If you are installing into brick, concrete, stucco, etc. Please contact your local home improvement store for the additional fasteners you may need for your application.

Additionally, if your application is different from what we would consider a "standard installation" as described in these instructions, please call customer service at 888-768-8404. For a color copy of these instructions please visit our website at <http://www.generalawnings.com/instructions>.

All directional references (left side, front, back, etc.) are from the point of view that you would be standing outside looking toward the front of the Patio Cover with your house being in the background. All Patio Covers are produced to be installed from left to right, unless requested otherwise when order is placed.

Due to uneven surfaces such as walls, floors, siding, etc., minor adjustments, other than what is stated in these instructions, may need made.

Please read through all these instructions in their entirety before you start to install.

Refer to Tools Needed (Parts A) for a picture of the following tools (listed clockwise from left to right in the picture): Square, Cordless/Electric Drill, Level, 7/16" Driver, 5/16" Driver, Tape Measure, Quick Clamp, Level, Hacksaw, Caulking Gun and Caulking, Piece of Wood (approx. 2" x 6", or something close), Utility Knife, and Crescent Wrench.

Definition of Drop Measurement: Drop is the difference in the height from the back of the Patio Cover (against the house) to the floor, and the front of the Patio Cover (furthest point away from the house) to the floor. Allow a minimum of 1/2" per foot of Patio Cover Projection. For example: If your Patio Cover Projects out 8 feet from the house, you must allow 4 inches for Drop. If there's any question weather you have enough space to mount, we suggest at least an 84" head clearance from the bottom edge of the Patio Cover down to the floor. Also, please make sure all outswinging Doors will completely open when the above minumium Drop is applied.

Decide how many inches needed for your Drop: Take the number of feet in the Projection of your Patio Cover multiplied by 1/2" of Drop per foot. Note that you must have at least 1/2" per foot of Projection, but more may be used. A normal example of figuring this out is as follows: Patio Cover with a Projection of 10 feet multiplied by .5 (1/2 inch) of Drop per foot gives a total Drop of 5 inches. Write down your Total Drop here _____" for use in the next step.

Find Post Height: Get the measurement from the bottom side of where the Mounting Rail (Part B) will be placed on the structure straight down to the floor. Take that measurement you just got and deduct the Total Drop measurement you wrote down in the previous paragraph. Write down the resulting measurement _____. A normal example of figuring this out is as follows: If the height from the bottom of your mounting rail to the floor is 110" and your total Drop per foot that you figured out above is 5", your posts should be cut to 105".

Locate your Posts (Part H) and cut them to the correct length figured out in the above paragraph. Locate and place the Post Flange (Part I) on the bottom of your posts, but DO NOT attach with any screws at this point. Set posts off to the side for now.

With a pencil, mark the center point of the Mounting Rail (Part B) and the center point, on your structure, of where you are installing the Mounting Rail (Part B). Run a bead of caulking across the center of the Mounting Rail (Fig. 1).



Figure 1

Match up the two center points and level your Mounting Rail (Part B) on the surface of the structure, using a leveling tool (Parts A).

Install Lag Screws (Part C) into all the pre-drilled holes to attach the Mounting Rail (Part B) to the structure (Fig. 2). Make sure you are drilling into something solid, otherwise you may have to use a form of anchor or plug to secure properly.



Figure 2

Insert Weather Strip Tape (Part D), sticky side in, on to Mounting Rail surface by removing paper backing and pressing it into Mounting Rail (Fig. 3).

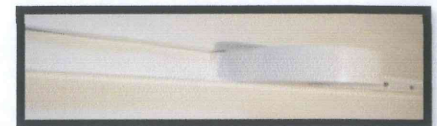


Figure 3

Locate your Left Starter Pan (Part E), Place on the ground to the left side of the Patio Cover; the lip of the pan should be facing toward the right side of Patio Cover, shown (Fig. 4).



Figure 4

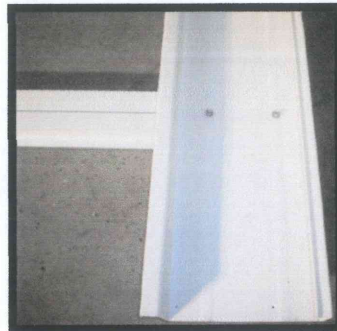


Figure 5



Figure 6

Patio Covers are always built from left to right as you are looking at the house. Locate any other Pan (Part F), Place on the ground to the Right side of the Patio Cover; the larger curved lip of the pan should be facing towards the left as shown in (Fig. 5).

Locate the Setback Channel (Part G). Place horizontally under the Starter Pan (Part E) on the left and the other Pan (Part F) on the right so that the Setback is positioned where you want the posts to be placed. We recommend approximately 12" from the front of the pans and even with the outer edge on each side. See (Fig. 6).

Attach Left Starter Pan (Part E) to the Setback (Part G) with 2 of the 5/8" Screws with washers (Part K) spaced equally across the top of the Pan down into the center slot of the Setback (Part G) as in (Fig. 7). **Make sure to place a dab of Caulking on the tops of the screws before you screw them in.**

TEMPORARALY attach the Pan (Part F) on the Right end to the Setback (Part G) with 2 more the 5/8" Screws with washers (Part K). **DO NOT use caulking on these screws for now, as this is a temporary step. (Fig. 7, except attach on Right side, not Left Side as shown as shown).**

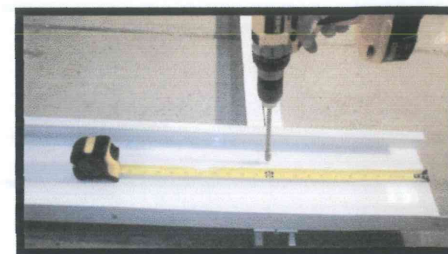


Figure 7

Using another person for assistance and/or a ladder, lift the whole assembled object (the Setback with the 2 Pans attached) up to the Mounting rail so that the Left Starter Pan (Part E) and the Pan (Part F) on the Right align with pre-drilled holes in the Mounting Rail (Part B).

Now you will temporarily slide the Posts, with the Flange temporary placed on the bottom, into the Setback (Part G) at preferably 6" (or as close as you can get to 6") in from either ends of the outside edges of the Patio Cover (Fig. 8). If more than 2 Posts are needed, additional Posts will be spaced evenly in between these 2 outside posts.



Figure 8

Permanently attach the Left Starter Pan (Part E) using 2 of the 5/8" Screws with washers (Part K) through the bottom of the Mounting Rail (Part B) up into the Pan (Fig. 9). **Make sure to place a dab of Caulking on the tops of the screws before you screw them in.**



Figure 9

TEMPORARILY attach the Right side pan to the Mounting Rail (Part B) using 2 of the 5/8" Screws with washers (Part K) through the bottom of the Mounting Rail up into the Pan on the Right side. **DO NOT** use caulking on these screws for now.

Using a Level (Parts A), check the Setback (Part G) and make sure it is level. If it turns out to be unlevel, cut all Posts (Part H) just enough to adjust the Setback (Part G) to level (Fig. 10). Also, plum all Posts (Part H) to the floor and mark Flange (Part I) position on the floor with a pencil.

Carefully slide Post (Part H) out of Flange (Part I) and place Flange on the mark you made on the floor. Attach the Flange (Part I) to the floor using a 1-1/2" Lag Screw (Part C) (Note: you may need an anchor (not included) for this Lag Screw (Part C), depending on your application). Slide bottom of Post back into Flange and install 2 each of the 5/16" x 1/2" Self-Tapping Screws (Part J). Install 1 Screw in opposite sides of each Post (Fig. 11). The top of the Post will slide up into the Setback Channel. You will attach the post to the Setback using 2 each of the 5/16" x 1/2" Self-Tapping Screws (Part J). Install 1 Screw in opposite sides of each Post (Fig. 12). Repeat this process for all included front posts.



Figure 10



Figure 11

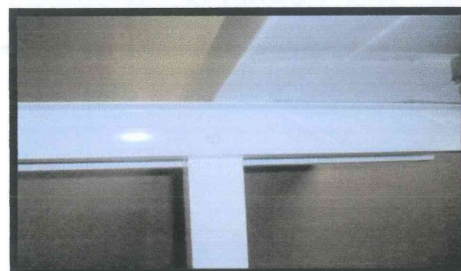


Figure 12

Now you can continue installing the rest of the Pans (Parts F), **they must be installed from left to right**. The best way to install each Pan (Parts F) in place is as follows:

1. Hold the Pan (Parts F) perpendicular to the Starter Pan, making sure that interlocks of both Pans are connected (Fig. 13). Pull the Pan towards you (Fig. 14) and slightly twist as you press downward and back into mounting rail (Fig. 15).



Figure 13



Figure 14

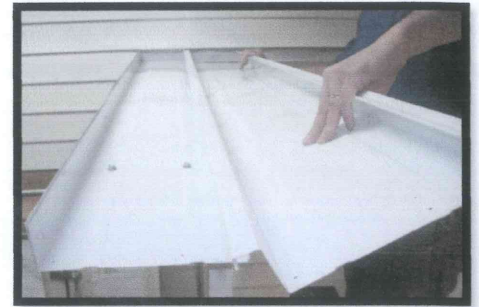


Figure 15

2. Next, place your Wood Block (Parts A) towards the back of the Patio Cover (approximately a foot or so in front of the Mounting Rail) and positioned underneath interlock where the Pans connect. Now use Clamp (Parts A), as illustrated in (Fig. 16) to tighten the pans together. This step is important to insure proper alignment of holes.

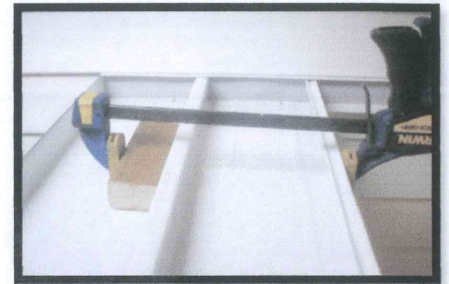


Figure 16

3. Use 2 of the 10-16 x 5/8" s.s w/Washer Screws (Part K) through the bottom of the Mounting Rail (Part B) up into the Pan (Fig. 17) and 2 of 10-16 x 5/8" s.s w/Washer Screws (Part K) through the top of the Pan into the Setbacks center slot as shown in (Fig. 18 and Fig. 19). This is where a lot of people run into trouble.

Please be sure to do the following:

- a. Make sure to place Caulking on the tops of the Screws going into the Mounting Rail (Fig. 20).
- b. Make sure the front of each pan is reasonably flush.



Figure 17



Figure 18



Figure 21

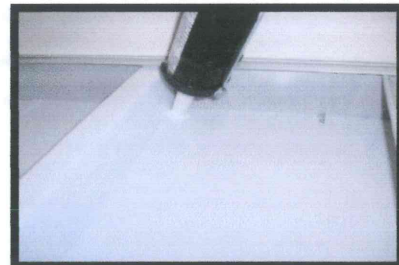


Figure 22

Stop installing the Pans when you have 2 unused Pans left. Remove screws and take out existing right side Pan that was previously temporarily installed (Fig. 21). Now use this pan as the next pan in line to install. Continue installing the last 3 Pans (Fig. 22).

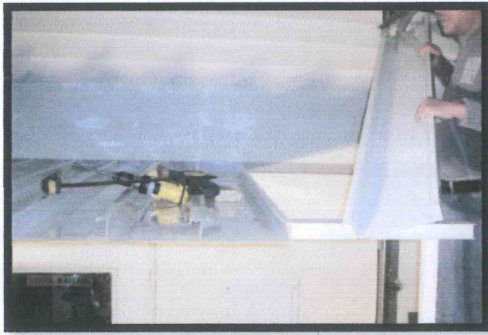


Figure 21



Figure 22

Locate your Front Gutter (Part L). Take a pencil and mark the center point on the top edge of the Front Gutter. Also mark the center point of the total width of the pans on the front of the pan. Align the center marks together and also align the Front Gutters' screw channel with the existing holes in the pans. Use 2 of the 10-16 x 5/8" s.s w/Washer Screws (Part K) to screw through the existing pan holes down into the Front Gutters' screw channel (Fig. 23). Continue installing the screws (2 screws per pan) in all the pans (Fig. 24). Place a 3" piece of Weather Seal Tape on both sides of Front Gutter as shown in (Fig. 25).

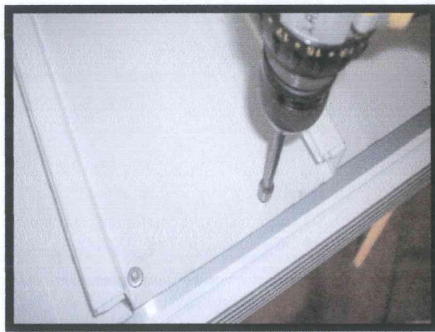


Figure 23



Figure 24

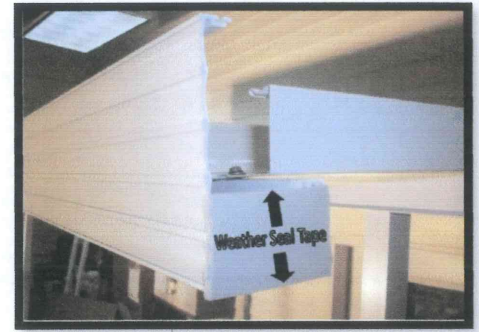


Figure 25

Locate one of the Side Fascia (Part M). Lift it up to the Right Side of the Patio Cover so that the back end of the Fascia rests upon the Mounting Rail in the back and the Fascia will go over the Front Gutter in the front (Fig. 26). Starting in the center of the Side Fascia, go to the 2nd slot down and use 5/16" x 1/2" Self-Tapping Screws (Part J) to install the Side Fascia (Fig. 27). Continue using the screws along the Side Fascia, spacing them approximately every 2 feet apart. Make sure all screws are installed along the 2nd slot down from the top only.



Figure 26



Figure 27

To install the Left Side Fascia, repeat Steps in above paragraph.

Locate your 2 Corner Pieces (Part N), take 1 Corner Piece and run a bead of caulking down the center of the inside (Fig. 28). Place where Front Gutter (Part L) and Side Fascia (Part M) meet (Fig. 29). Attach corner using 4 of the 5/16" x 1/2" Self-Tapping Screws (Part J). Use 2 Screws on the front face of the corner and 2 screws on the side face of the corner, installing the screws on the 1st and 4th slots from the top (Fig. 30).



Figure 28



Figure 29



Figure 30

Pick a location you want for the Downspout to come down. The Downspout can be placed either on the left or right of the Patio Cover, but it must be placed in front of a Post. Locate your Outlet Tube (Part O), place caulking along the top edge of the Outlet Tube (Part O) (Fig. 31). Place the Outlet Tube on the bottom of the Front Gutter, making sure it is lined up with the post you chose to use. Secure Outlet Tube with 4 of the 5/16" x 1/2" Self-Tapping Screws (Part J) into the pre-drilled holes (Fig. 32). Now drill out the center hole of the Outlet Tube (Part N) using a "hole" saw or a large drill bit (1/4" drill bit or larger) (Fig. 33).



Figure 31



Figure 32



Figure 33

Locate 2 of the A-Elbows (Part P) and put together by placing the smaller end into the larger end. Place the A-Elbows (Part P) over the Outlet Tube (Part O) so that it curves toward the Post. Secure with 2 of the 5/16" x 1/2" Self-Tapping Screws (Part J), 1 Screw on each side (Fig. 34).

Locate The Downspout Hanger (Part Q), attach to the Post approximately 2 feet up from the floor using 2 of the 5/16" x 1/2" Self-Tapping Screws (Part J) as shown in (Fig. 35). Make sure you hold the Downspout Hanger firmly when screwing.



Figure 34

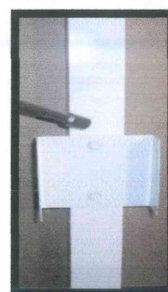


Figure 35

Get the measurement from floor up to bottom of existing A-Elbow that is hanging from the Front Gutter (Fig. 36). Cut the Downspout exactly to this measurement. This will allow for some space between the bottom elbow and the floor.

Locate the last A-Elbow (Part P) and place it over the outside of the bottom of the Downspout. Now attach the Downspout to the top A-Elbow, as shown in (Fig. 37) and into the Downspout Hanger (Part Q). Secure Downspout into Downspout Hanger with 2 of the 5/16" x 1/2" Self-Tapping Screws (Part J). 1 Screw on each side of the Downspout Hanger (Fig. 38).

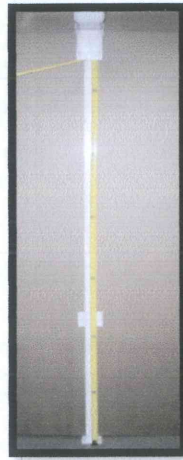


Figure 36



Figure 37



Figure 38

There are 2 ways you can install the Mounting Rail Cap (Part R):

- a. You can spread a bead of caulking along the top lip of the Mounting Rail Cap (Part R) (Fig. 39). Then firmly press the top lip against the house so that it covers the Mounting Rail and will direct water onto the Patio Cover (Fig. 40).
- b. Or you can simply place top lip of Mounting Rail Cap (Part R) under existing house gutter (Not Pictured).

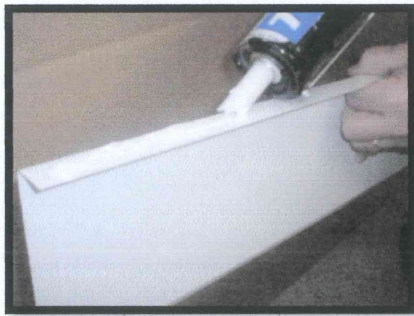


Figure 39

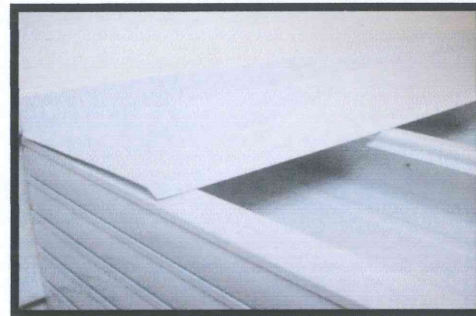


Figure 40

Installing Snow Kit- OPTIONAL- needed for projections 12 feet and over ONLY.

2 People are recommended for Snow Kit installation

Locate center, from front to back, of Patio Cover (**Fig. 41**). If you cannot install the Snow Kit exactly in the center, locate point as close as possible to center. Line up and hold the extra Setback (Part G) up to center mark. Run 2 of the 5/16" x 1/2" Self-Tapping Screws (Part J) down through each pan in to center of Snow Setback. You may need additional screws, depending on width of Patio Cover. The Post (Part H) is to fit snug up in the extra Snow Setback and rest against the floor (**Fig. 42**).



Figure 41



Figure 42

SNOW POST CHART

FOR PATIO COVERS 12' PROJECTION AND OVER

Width of Patio Cover

Quantity of Required Snow Posts

Width of Patio Cover	Quantity of Required Snow Posts
Up To 6' Width	1 - 10 Foot Snow Post
7' To 17' Width	1 - 10 Foot Snow Post
18' To 23' Width	2 - 10 Foot Snow Posts
24' To 30' Width	3 - 10 Foot Snow Posts
31' To 40' Width	4 - 10 Foot Snow Posts