



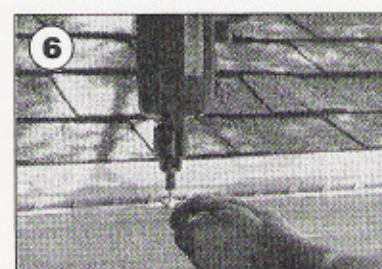
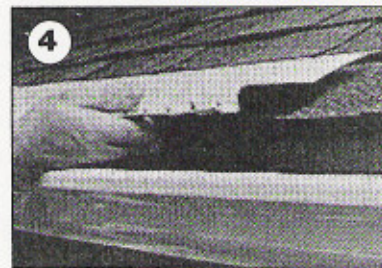
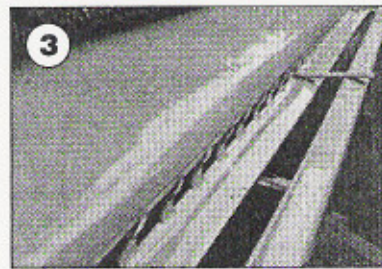
Gutter Protection Co., Inc.

VINYL CARE-FREE™ GUTTER PROTECTION SYSTEM

INSTALLATION INSTRUCTIONS

For safety and installation ease, it is recommended that a ladder stabilizer or ladder stand-off be used when installing the Care-Free™ Gutter Protection System.

NOTE: No fasteners of any kind are either necessary or recommended to be installed through the protector into roofing. Nailing or screwing into roofing may void your roof warranty and could cause leakage.



PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

PREPARATION: Clean gutters and leaders thoroughly. Check the pitch of the gutter to insure gutter drains free. If it doesn't, remove the necessary fasteners or spikes and reset so gutter drains freely toward the downspouts

HELPFUL HINTS & TECHNIQUES

Note: Avoid tearing or damaging shingles. Use a flat pry bar to separate them. If shingles are hot and stuck together, you must do this before the sun hits the roof.

Note: If under-course is torn or rotted and/or the tar paper is worn away, it is important to install flashing under the under-course for the length of the damaged section of roof.

Note: If inadequate space exists between the gutter spike or hanger and the bottom of the front lip, you'll have to flatten the top inner gutter lip with pliers or channel locks at each spike or hanger.

Special Note: The pitch of the flat portion of the protector covering the gutter should be **more than 3 degrees and less than 15 degrees**. For steeply pitched roofs, it may be necessary to break and bend the flat portion of the protector to match the roof pitch.

STRAIGHT RUNS - Start at either end of the gutter.

Step #1. Slide a clip through louvers on both ends of the protector approximately 1" from each end of the protector and also near the center of the protector. See fig. 1

Step #2. Install the first protector by sliding the flat edge of the protector between the first course and under-course shingle. The bottom flange of the protector will be resting on the gutter hangers. See figs. 2 & 3

Step #3. Check for positive pitch away from the roof by placing a screw or marble on the flat surface of the protector. If the object rolls back towards the shingles, there is inadequate pitch and gutters should be lowered in elevation before continuing. The pitch of the flat portion of the protector covering the gutter should be **more than 3 degrees and not more than 15 degrees**. (see Special Note above)

Step #4. Grasp the clips at each end of the protector and pull to snap the flange of the protector to the under-side of the front gutter lip. See fig. 5

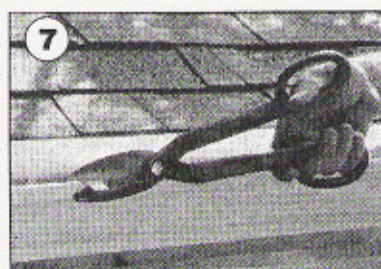
Step #5. After the clips are in place, drill a 1/4" long self tapping screw through the clip and into the gutter lip. Be sure not to screw through the lip of the protector to allow the vinyl to expand and contract. See fig. 6

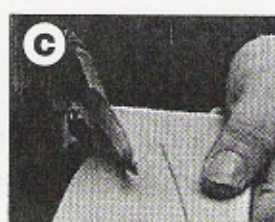
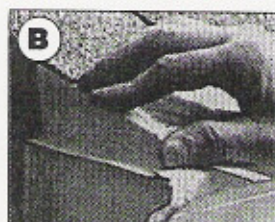
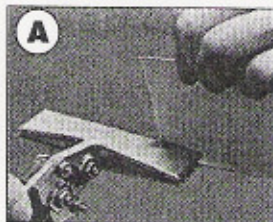
Cut off the portion of the clip that protrudes beyond the gutter edge for a nice clean appearance. See fig. 7

Step #6. Follow the previous steps to install the second protector adjacent to the first protector going in either direction. Slide the second protector over the end of the first to provide an overlap. See fig. 8

Step #7 Install successive protectors and cut the last piece to the length required to finish the gutter run.

Step #8. Close off the ends of the protector by installing an end cap and bird shield.

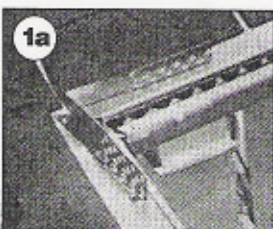




END CAP INSTALLATION

- Step #1.** Use a piece of flat vinyl or coil stock about 4" X 5" and cut the 5" side of the material to fit across the top of the gutter end cap.
- Step #2.** Form a 1/2" flange along the edge to fit across the gutter end cap. See fig. A
- Step #3.** Position flanged portion on top of the mating flange of the gutter end-cap and mark slope of protector on flattened portion and the curvature of the front edge. See fig. B
- Step #4.** Bend a 90 degree bend along this mark. Cut off all but 1/2" to overlap top of installed protector and trim material away from the curved portion. See fig. C
- Step #5.** Use 1/4" self tapping screws to join end cap to previously installed protector and to secure end-cap to the top flat portion of gutter end-cap. See fig. D

Note: If the gutter extends beyond the fascia, there will be an opening behind the gutter that must be covered to prevent birds from entering. To do this: use a flat piece of the material and trim it to fit over any opening in the rear of the gutter that might be large enough for birds to enter. Use 1/4" self tapping screw to attach the **bird shield** to the back of the gutter.



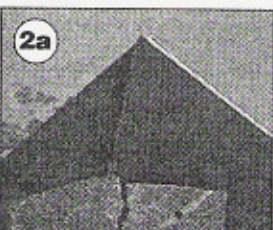
INSIDE CORNERS - Start at inside corner and work out towards ends of gutter. See Fig. 1a

- Step #1.** Remove 8-10" of louvers from one end of a protector leaving the flat top of the panel. Slide the panel under shingle and far enough into the valley to go 1/2" to 1" under the shingles on the far side of the valley. Fasten panel normally
- Step #2.** Using the end that will butt in the corner, remove about 3" of louvers from another protector, leaving the flat top of the panel. Slide under the shingle and up against the opposite panel.
- Step #4.** Finish both runs of the gutter as instructed above.
- Step #5.** Install diverters

DIVERTERS IN VALLEYS

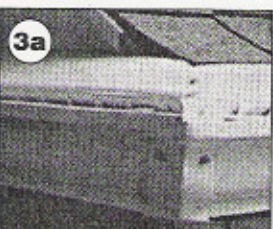
Note: Water flowing down the valleys must be diverted otherwise it will overflow the system. Diverters are used to divert and regulate the flow of water in valleys. The solid diverter is used to divert the flow and the diamond diverter is used to regulate the amount of water that flows over the louvers. Diverters are never installed or fastened to roofing as doing so will void roof warranty.

Position the diverter on the top of the protector to split the water flow as desired. Fasten it to the top of the panels with 1/2" or less self-tapping screws. See fig. 1a



OUTSIDE CORNERS See Fig. 2a

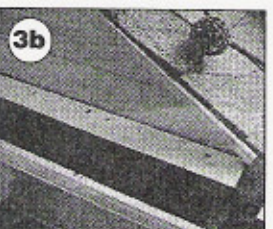
- Step #1.** Cut the two corner protectors at 45 degree angles. Remove an additional 3/4" rectangular section from louvered face of one protector.
- Step #2.** Work the flat edge of one of the protectors under the first course shingle and the cap shingle. Sometimes, a portion of the flat edge of the protector must be cut away to avoid damaging shingles. Secure this protector to the gutter.
- Step #3.** Slide a second adjacent protector into place as done in Step #2 above. Fasten second protector to gutter.
- Step #4.** At the overlap of the flat upper surface of the protectors, use a 1/2" or less self tapping screw to screw through the overlap.



GUTTER RETURNS & GUTTER ON DORMER See Fig. 3a & 3b

NOTE: Any situation where the gutter to be covered with protectors is not adjacent to the roof can be installed in a similar manner.

- Step #1.** The flat upper surface of the protector must be trimmed to fit against the wall and around any molding using metal shears.
- Step #2.** Since there are no shingles to go under, you must construct a ledge for the back of the protector to rest on, at an elevation to give slight pitch to the top of the protector so water drains away from siding. Fasten with self-tapping screws provided. See fig. 1a
- Step #3.** Trim any excess from the rear edge of the protector so that it fits on top of the ledge and the front edge fits under the gutter lip. Secure the protectors in the normal fashion.



DIRECT PIPES See fig. 4a

Note: Upper gutters that have leaders dumping onto lower roofs can cause an overload condition for the louvers if the discharge is within 4-5 feet of the louvers.

- Step #1.** Extend leader across roof and install elbow on end of leader to deliver water through gutter protector. Tip: Install so that elbow enters where the two protectors join together. Scribe position in protectors.
- Step #2.** Using shears, cut along two scribed parallel marks for opening in both protectors for entering elbow. Bend excess material on each protector up to form flap.
- Step #3.** Install second panel, bend up flaps, insert elbow from direct pipe.
- Step #4.** Fasten flaps on both protectors to elbow of direct pipe with self-tapping screws.



Note: While Vinyl Care-Free™ Gutter Protectors keep larger debris from entering gutters, in heavy debris environments debris may accumulate on the face of the louvers which can be removed by using a telescopic pole and brush assembly from the ground. Any small debris that may enter the gutter can easily be removed by removing the panel covering the downspout and then replacing it. In heavy rainfall conditions, Care-Free™ may not capture all the water when installed on rafters longer than 14ft. or in valley configurations requiring supplemental distribution with diverters.