



Secure Door® Installation Instructions

SAFETY INSTRUCTIONS. Thoroughly review these instructions before starting the installation. To minimize the risk of eye injury, always wear eye protection when using an electric drill. To protect against inadvertent opening of the door while installing the brace, pull the automatic door opener disconnect cord prior to commencing work, if an automatic door opener is installed. If no automatic door opener is installed, lock the door to prevent accidental opening of the door while installing the brace.

Inventory the parts to ensure everything needed for the installation is present in your kit. In the event any of the parts listed above are missing from your vertical bracing system kit, please call us at 800-483-3341 and leave a message with your name, address and description of the missing part and we will promptly ship it to you.

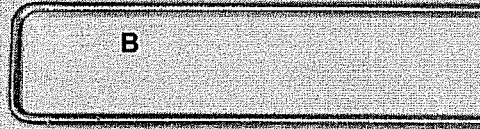
Parts List (see accompanying photograph of each part)

| Description | Qty | Part | Used in this step |
|---|-----|------|-------------------|
| 3/8"-16 nuts for U-Bolt | 4 | A | Step 1 |
| U-Bolt | 1 | B | Step 1 |
| U-Bolt Plates | 2 | C | Step 1 |
| U-bolt black plastic end cap | 2 | D | Step 1 |
| Top Profile | 1 | E | Step 2 |
| 1/4-20 x 1/2" Hex HD bolt | 5 | F | Steps 2 & 3 |
| Floor Flange | 1 | G | Step 2 |
| 1/4-20 Ny-loc nuts | 13 | H | Steps 2 & 3 |
| Bottom Profile | 1 | I | Step 3 |
| 1/4-20 X 3/4" Hex HD bolts | 8 | J | Steps 2 & 3 |
| "T" secure clip | 1 | K | Step 3 |
| Top Bracket | 1 | L | Step 4 |
| 3/16" masonry drill bit | 1 | M | Step 4 |
| 3/16 x 2 3/4" Blue Tap Con w/ 5/16" hex head | 3 | N | Step 4 |
| Deflection bracket | 8 | O | Step 5 |
| Deflection bracket black plastic end cap | 8 | P | Step 5 |
| 1/4-20 X 3 1/2" Hex Bolt | 4 | Q | Step 5 |
| Wing nut | 4 | R | Step 5 |
| 4" long clear plastic tube | 1 | S | Step 5 |
| 3/8" drop-in anchor | 3 | T | Step 6 |
| 3/8" x 5/8" Round Heavy Duty Bolt for use w/ anchor | 3 | U | Step 6 |
| 4" x 6" label for door | 1 | V | Step 7 |
| 2" x 4" label for brace | 1 | W | Step 7 |

Next, assemble the following tools that will be needed for installing your Secure Door® brace:

| | | |
|---------------------------------|------------------|---------------------------|
| Electric drill & extension cord | 1/2" masonry bit | 5/16" socket driver |
| Screwdriver | hammer | scissors or utility knife |
| Crescent or socket wrench set | vacuum cleaner | |

The drill is used to drill pilot holes, with the 3/16" masonry bit we have provided, into the door header for the Top Bracket and for drilling three holes with the 1/2" masonry bit into the garage floor to mount the Floor Flange. AT NO TIME SHOULD ANY HOLES BE DRILLED INTO THE ALUMINUM TOP AND BOTTOM PROFILES OR ANY OTHER PART OF THIS BRACE KIT.



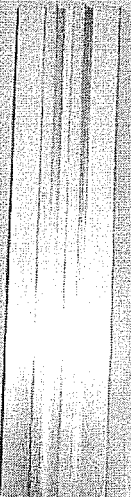
C



D



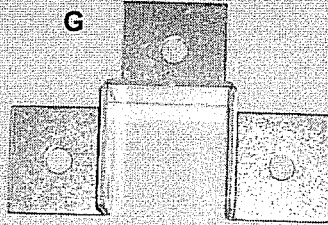
E



F



G



H



I

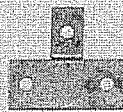


PHOTOGRAPH OF PARTS KEYED TO PARTS LIST

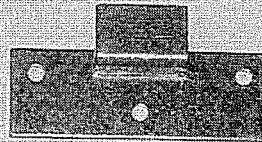
J



K



L



M



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Q



R



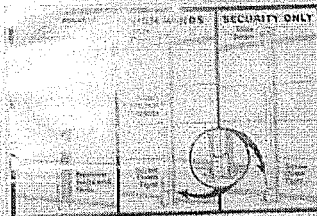
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U



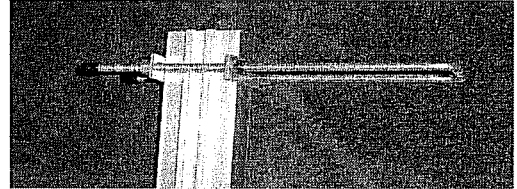
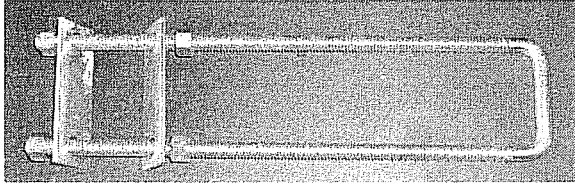
V



W

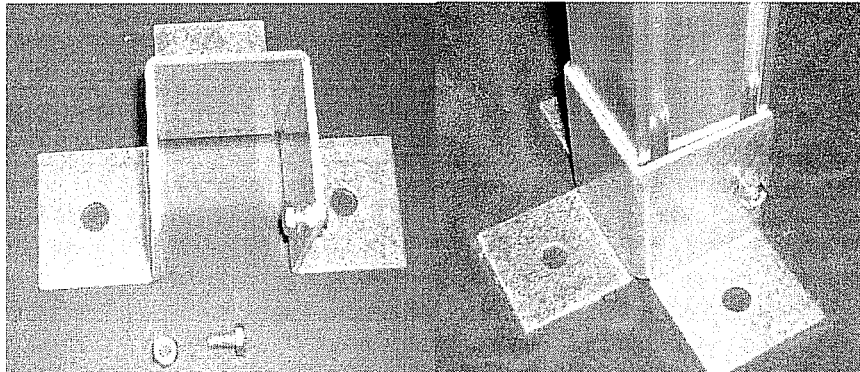


- Step 1. Thread a 3/8"-16 nut (part A) onto each side of the U-bolt (part B) about one-third to one-half of towards the U-end. Next push both U-bolt plates (part C) onto the U-bolt, and then screw the remaining two 3/8"-16 nuts (part 1) onto the end of the U-bolt. When this step is finished, the U-bolt assembly should look like the one in the photo below on the left. Push a U-bolt black plastic end cap (part D) over each end of the U-bolt.

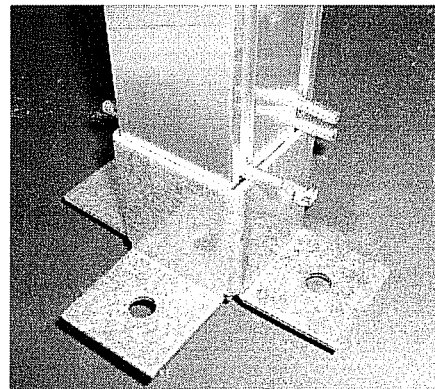
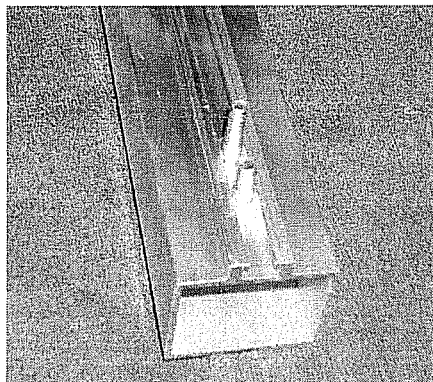


- Step 2. Place the U-bolt assembly over the end of the Top Profile (part E) with a plate on each side of the flat side leaving about 2" of the profile above the assembly (above, right photo).

- Step 3. Locate two 1/4"-20 x 1/2" bolts (part F) and insert one through each side hole in the floor flange (part G) with the head on the inside (see below left photo). Screw a 1/4"-20 Ny-loc nut (part H) on the outside of the flange on each of the two bolts until finger-tight. Align the heads with the slotted track on the Bottom Profile (part I) and slide the floor flange onto the Bottom Profile until the end of the Bottom Profile is even with the bottom of the floor flange and tighten nuts with a wrench.



- Step 4. Locate the 1/4"-20 x 3/4" hex bolts (part J) and insert one into the slotted channel in the center of both sides of the Top Profile. Next locate one of the three remaining 1/4"-20 x 1/2" hex bolts and insert it on just one side of the Top Profile by placing the head into the slotted channel and sliding it onto the Top Profile (see photo below on left).



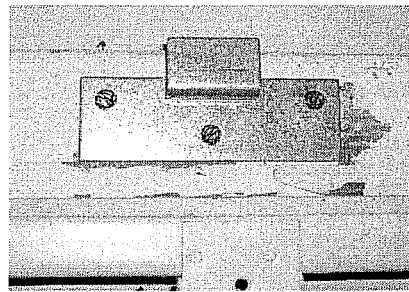
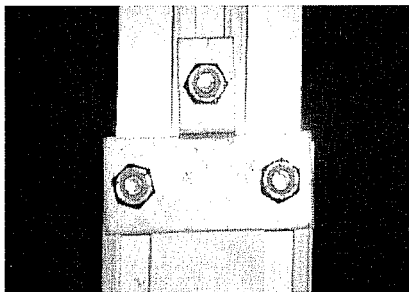
- Step 5. Locate the remaining four 1/4"-20 x 3/4" hex bolts (part J) and insert the head of each into each of the two channels on both slotted sides of the Bottom Profile (see photo above on right). Next locate the remaining two 1/4"-20 x 1/2" hex bolts and insert them on one side of the Bottom Profile. Align this side of the Bottom Profile with the side of Top Profile on which you placed the single hex bolt in step 4. Now insert the bottom of the Top Profile into the top of the Bottom Profile and slide the Top Profile about three-quarters of the way into the Bottom Profile.

Different doors have different hinge types and numbers. Count the number of hinges on your door. Most doors are four panels with three rows of three hinges. Some doors have five panels and three rows of four hinges. On doors with three rows of three hinges, you will need to install at least three sets of two deflection brackets (six total) and on doors with three rows of four hinges you will need to install four sets of two deflection brackets (8 total). For added protection, you may install the fourth set on doors with three hinges at the bottom of the door by making a hole through the stile or vertical support that the hinges are screwed into or, alternatively, by attaching to a hinge you purchase in a do-it-yourself store for about \$4 and install at the bottom of your door.

If you are installing one brace on a single door, you will be installing on the center, vertical row of hinges. If you are installing two braces on a double door, you will use the outer two vertical rows of hinges for installation and not the center row. If you are seeking maximum protection and will be installing three braces, you will be utilizing all three rows of hinges.

On one-piece garage doors with no hinges, hinges may be purchased at a hardware store and added just to attach the brace or, alternatively, other securing devices such as securing through a vertical support member on the door or adding other hardware to accommodate the deflection brackets.

- Step 6. Turn the two sections of the brace to the side where you can see the three ¼-20 x ½" hex bolts and place them near the juncture of the Top Profile and Bottom Profile. Put the "T" Secure Clip (Part K) over the three bolts and then screw three ¼-20 Ny-loc nuts onto the bolts (see photo on left below). Tighten the two nuts on the Bottom Profile with a wrench but only hand tighten the upper nut. (This nut will be further tightened in step 9 after the brace is extended to its proper height.)

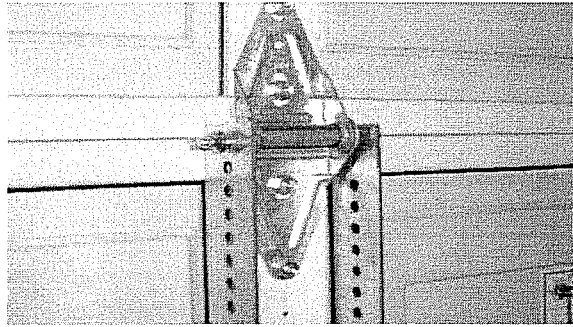


- Step 7. Align the Top Bracket (part L) above the garage door on the header in a vertical line with the row of hinges where you will be using for this brace. The very bottom edge of the Top Bracket must be at least one inch from the top of the door (to preclude interference with normal door operation), as shown in the picture above on the right. Before permanently installing the Top Bracket, tape it in place with duct tape and manually open and close the door to check proper clearance, relocating if necessary to ensure clearance. While the Top Bracket is still taped in place, mark the three holes using the Top Bracket as a template and then remove the Top Bracket and drill the holes with the 3/16" masonry drill bit provided (part M). Be sure to drill the full length of the drill bit. Once the drilling is complete, place the Top Bracket back in place and mount permanently with the three 3/16"x2 ¼" blue Tap Cons (part N), using your electric drill and 5/16" socket driver bit.

The Top Bracket must be securely fastened through the header and into the garage structure behind the header. DO NOT SUBSTITUTE SMALLER TAP CONS TO MAKE THIS STEP EASIER AS IT WILL REDUCE THE HOLDING POWER OF THE BRACE. After completing the installation of the Top Bracket, open and close the door to ensure the door clears the upper bracket placement.

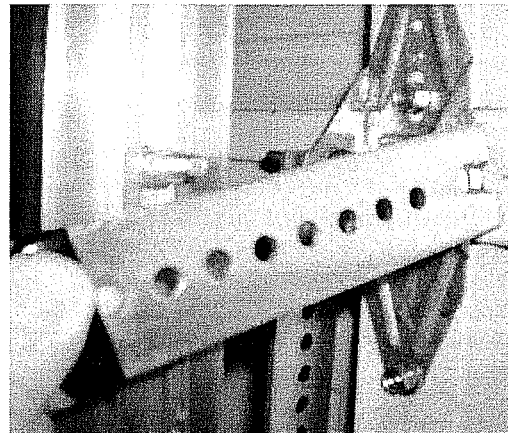
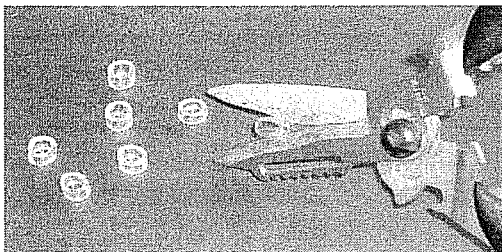
- Step 8. Take two of the deflection brackets (part O). Be sure to note which end of the bracket has one hole because the end with one hole is the end of the bracket that attaches to the garage door hinge. Attach the end of the deflection brackets with the one hole to each of the door hinges using the ¼-20 x 3 ½" hex head bolts (part Q) and wing nuts (part R). To do so, insert the hex bolt through the one-hole end of the deflection bracket, then through the throat (channel) of the hinge, and then through the one-hole end of the second deflection bracket, securing the bolt on the outside of the second bracket with a wing nut as shown in the picture

that follows. Only tighten the wing nut two or three turns; repeat with the other two or three hinges. The deflection brackets will be attached to the brace in step 10.



Step 9. Stand the brace upright and hook the U-Bolt into the Top Bracket, then extend the brace tight to the floor. Adjust the U-Bolt nuts and plates until the brace is as close and as parallel to the garage door as possible. Then tighten the U-bolt assembly and tighten the remaining nut on the "T" Secure Clip on the side of the brace to fix the length of the brace.

Step 10. Starting at the hinge nearest the top of the brace and place the rubber spacers (made from part S by cutting the tubing into eight 3/8" pieces as shown in the picture on the lower left) over each of the bolts protruding from the side of the brace. Then move the protruding bolts with spaces attached up or down in the track to be at the same height as the hinge. Place the deflection bracket over the bolt (as pictured on the lower right) and secure with the 1/4-20 ny-loc nut to where the rubber is slightly compressed. Tighten the wing nuts finger-tight. Repeat this with all six or eight of the deflection brackets.



Step 11. Mark through the Floor Flange onto the concrete floor beneath where each of the three bolts will be fastened to secure the brace to the floor. Remove the brace by loosening the wing nuts and **detaching the deflections brackets from the hinges at the hinge end only**. Remove the brace from the door and replace the bolts and wing nuts through the outer end of the pairs of deflection brackets so they do not get lost.

Step 12. Drill the three holes into the concrete garage floor using a 1/2" masonry bit (not supplied) to a depth of 1 5/8", clean out the holes by vacuuming or blowing out the debris. Then insert the 3/8" drop-in anchors (part T) with the thread side up into the hole. The top should be flush with the concrete floor. Then using one of the 1/4-20 x 3 1/2" bolts as a set tool, hammer lightly for two or three blows until you feel the anchor is set into place.

Step 13. Re-install the brace by sliding the U-Bolt over the Top Bracket and pushing the brace in place tight against the door. Re-attach the deflection brackets to the hinges using the bolts and wing nuts. Install the three 3/8" round heavy duty bolts with large slotted heads (Part U) through the Floor Flange into the anchors in the concrete garage floor.

Step 14. Place the 4" x 6" quick installation reference label (Part V) on the center of the inside of the garage door. Place the smaller 2" x 4" label (Part W) on the center of the brace below the "T" Secure Clip.

If installing multiple braces, mark each brace with a permanent marker to indicate "L" for left, "C" for Center, and "R" for right. Although each brace could be adjusted to fit another location, keeping the braces pre-adjusted facilitates quick installation when a storm approaches.

Installation of your Secure Door® brace is now complete. Your brace can be removed for storage by detaching the mounting brackets from the hinges and unscrewing the floor bolts. Keep the floor bolts screwed in place when Secure Door® is not in use to keep the holes free from dirt and debris. We also recommend that you guard against the loss of the attachment parts by re-inserting the bolts through the deflection brackets that remain attached to the brace and screwing the wing nuts onto the bolts.

Disclaimer

Secure Door® is a retrofit product and therefore its effectiveness is dependent on the type, quality, condition, and strength of the garage door to which it is attached. If your garage door is made of weak materials, has suffered prior damage, has windows, is poorly maintained, improperly installed, or is otherwise of poor or substandard quality, Secure Door® alone may not provide the level of hurricane protection you need. Because we cannot verify the nature and condition of each customer's garage door on which Secure Door® is installed, we cannot provide assurance to any customer that Secure Door® will enable their garage door to match the performance achieved in our independent testing on a new door of known quality and materials. The effectiveness of Secure Door® increases with each brace installed and we strongly recommend you purchase the number of Secure Door® braces you deem sufficient for your door and the level of protection you desire.

Secure Door® assumes no liability arising from the use or misuse of its product.

Return policy

If you are not completely satisfied, simply return the unused brace within 30 days for a refund of the purchase price and associated taxes less a \$15 re-stock charge. Shipping charges both from our warehouse to the purchaser and from the purchaser to return the Secure Door brace are the responsibility of the customer. Returns will not be accepted on braces that have been installed, in whole or in part.

Homeowners Insurance Discount

By installing Secure Door® on your residential garage door(s) you may be eligible for a discount on your homeowners insurance. To advise your insurance company, complete the Proof of Purchase certificate enclosed and then mail the completed certificate to your insurance company or agent.



**Proof of Purchase
Vertical Bracing System for Garage Doors**

Date:

Insurance Company Name:

Insurance Company Address:

Homeowner Policy Number:

Customer Name:

Customer Address:

Number of Braces Installed:

Door size and description:

To Whom It May Concern:

This letter is to certify that the above-named customer has purchased the Secure Door® patented vertical bracing system for their garage door for protection against hurricane force winds. Secure Door® is designed to strengthen the door and to minimize both the inward, outward, and upward motion of the garage door. It is patented (US Patent 6,082,431) and has been laboratory tested on a 7' x 16' non wind-loaded 26 gauge sheet steel garage door rated at 70 mph and, with three braces installed enabled this garage door to exceed the ASTM E330-90 standard by withstanding pressure equivalent to wind speeds of 180 mph. When properly installed on a garage door of equivalent strength and in good condition, similar results should be expected. However, Secure Door® assumes no liability from the use or misuse of its product.

If more information is needed, please visit our website at www.securedoor.com, call (800) 483-3341 or e-mail info@securedoor.com.

Yours truly,

S. Michael DeCola

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President and Inventor
Secure Door®