

**MEASUREMENT & INSTALLATION INSTRUCTIONS**  
of  
**Billboarder Banner Framing System**

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**Version: v20161205**

## HOW TO MEASURE

**Measuring the instructions: please read before ordering**

**Note:**

**If you are ordering frames smaller than your truck wall's advertising space, you can ignore all measuring instructions and order any size you would like.**

**However:**

**If you are ordering frames to be as big as your truck walls advertising space can take (edge to edge), please note that most trucks have a metal obstruction that is higher than the advertising wall around the edges, which can prohibit the Capping Plate from being inserted into the base plate. So measure the frames so they will be ½ inch away from edging obstruction. To do this simply subtract 1 inch from each measurement (height and width). When the frames are centered, this one inch lesser measurement in each direction will create a half inch, insignificant, slight margin, safely away from the edge of any obstructions and make installation of the Capping Plate easy.**

**Also:**

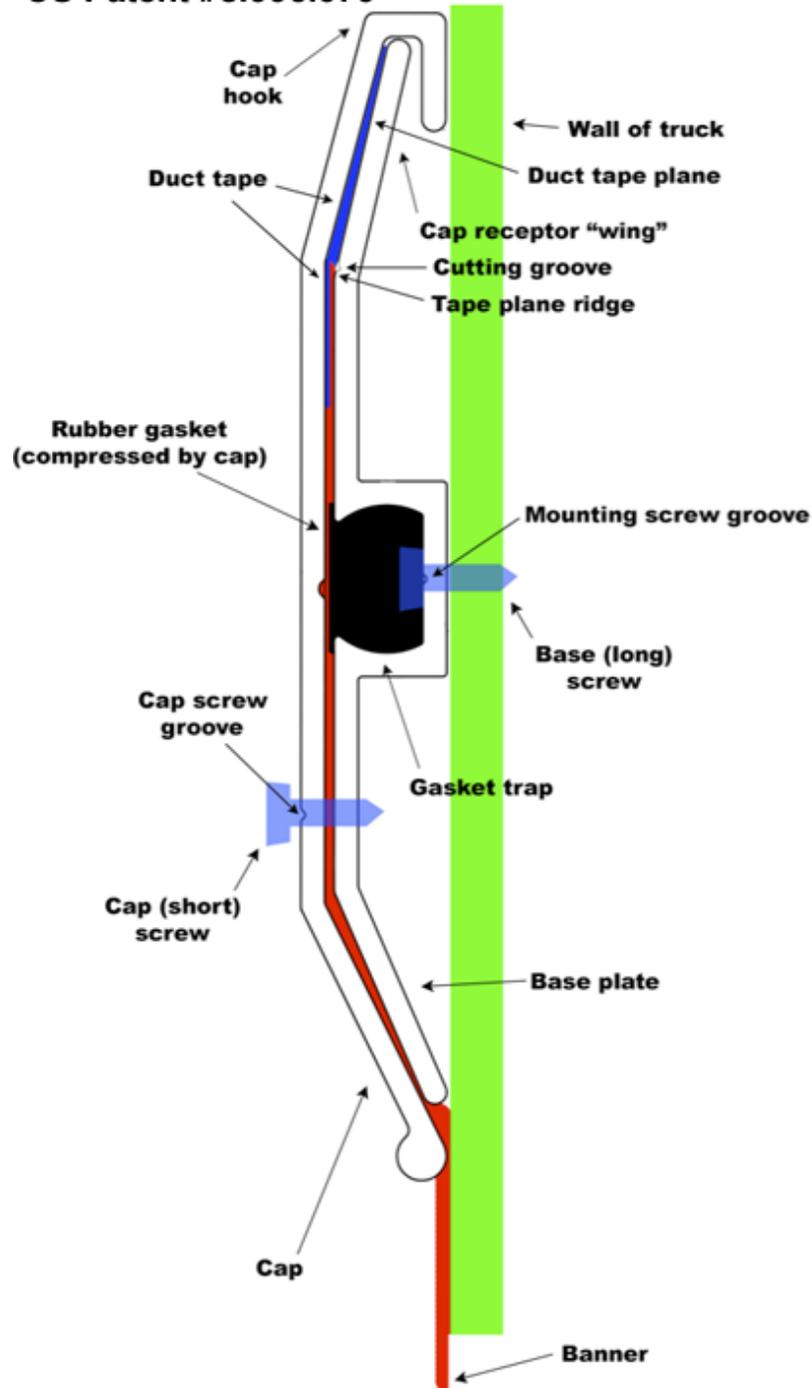
**Some Trucks have one Rounded Corner next to the top right or top left (depending on the side your looking, next to the driver pasanger cab) instead of a normal corner, made by two 45° angles coming together to form a regular pointed 90 degree corner. (see picture BELOW)**



If this is the case with your truck, please let us know and we will cut your frames appropriately with an extra 5<sup>th</sup> cross-member frame piece, cut with correct angles. To avoid the round. **(see picture ABOVE)**

## INSTALLATION INSTRUCTIONS

US Patent #8.096.070



Note: The frame has three types of parts: base plate, anodized capping plate, and rubber securing gaskets. Also, long and short self-tapping metal screws are provided for mounting and securing the frame to a truck wall. Indoor walls use non-tapping metal screws and anchors provided.

### Some definitions before you start:

**Duct tape holding tabs...** About 6 inches of duct tape pulled and cut off the roll. Used to temporarily line up and hold in position the base plate in order to screw the base plate to the truck or wall in the correct position. Holding tabs are thrown away after the base plate is screwed to the truck or wall.

**Duct tape pull tabs...** Used to temporarily hang and tension the banner to the base plate. Pull tabs are not thrown away until the banner is changed out for a new ad.

**Sides and Sections...** Frames have four sides; top, bottom, right side, and left side. Full frame sections are 8 feet long and come in two pieces, base plate and capping plate. Any side longer than 8 feet will have more than one section to the side.

### Things you need for installation

**Electric Drill or Electric Screw Driver** with size 5 Phillips head drill bit(s). It's a good idea to have 3 or 4 spare bits.

**Caulking Gun and Tube(s) of Caulking.** It takes two-thirds of a caulking tube to caulk one 8 by 16 foot frame. Caulking is only needed for trucks or vehicles.

### **A word about Rivets**

You cannot mount the base plate on top of rivet bumps! The base needs a flat three inch wide surface (times the length) in order to lay flat and secure.

An easy fix for rivet bumps is to **grind down flat the rivet bumps** that are in the frame's way, and cannot be avoided by placing the frame in a different location. A grinding wheel attached to a power drill does fine in providing a flat area allowing for a 3 inch area of flat space for the base plate to rest on. Most trucks can easily do with a line or two of rivets removed and the frame itself will provide additional stability in that area. Rivets that are under the banner will not interfere with installation and will hardly be noticeable. Grinding rivets that will fall under the banner area is optional and done at the users discretion.

The steps for installation are:

**Know where the different base plate sections are going.** Tip: refer to the frame section layout guide (included with your order) that was made just for your custom frame size, to familiarize yourself with just where the sections go in order to make up the four sides.



**Make a pencil mark indicating how far down from the top of your truck the top side of your frame is going to be located.** Repeat this mark several times along the length of where the top section is going to go. This will give you a guideline parallel to the top of the truck with which to line up your top side frame section(s). Tip: **Don't use a level on trucks!** A level is okay to use for walls. Using a level on trucks is useless, it's parallel to the top of the truck we want! Now make a mark indicating where the top right side of your frame should start. Now you know where your top side section(s) are going to go along the line and where the corner is going to start.



**Caulk the back of all the base plates to seal out air and water.**

Tips: Caulking is not needed for frames going indoors or on walls. Turn the base plates upside down (gasket catch facing down). Use a caulking gun to apply a bead of caulking as shown along the backside of the gasket catch area. See picture.



**Temporarily tape the four base plate sides into position using 6 inch duct tape holding tabs.** Tip: Start with the top side section(s) (that's the side with the pencil guide) then do the sides (keeping right angles to the top) and then the bottom. The temporary duct tape holding tabs make it easy to readjust and place all sections into the proper square 90-degree positions before screwing to the truck or wall. See photo above.

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**Secure the base plate to the truck or wall with screws.**

**Note: If you are mounting the frame onto a truck body**, the screws we provide are self-tapping and need no hole predrilled in the aluminum base plate. The self-tapping screws go into the screw groove inside the gasket trap using a power drill to aid in screwing. Secure the base plate to the body of the truck by first screwing the corners down about one half inch back from where the two sides meet to form a corner. Use one screw for each corner end, two screws in each corner. Screw in all four corners (eight screws). Also, if your top, sides, or bottom consist of more than one section, also place a screw about one-half inch back from the edge of each section. Then place screws 12 inches apart over all of the base plate sections. Remove and discard all duct tape holding tabs.

**If you are mounting the frame onto a masonry wall or wood**, the screws we provide are not self-tapping, so  $5/32$ " holes to accommodate the screws need to be predrilled into the base plate. Drill these holes with the frame taped in place, and make sure that the wall behind the frame is marked utilizing the drill bit. Then remove the base plates from the wall and use a  $5/16$ " bit (use a masonry bit if appropriate) to drill holes at the marked locations for wall anchors. Insert the anchors and remount the base plates to the wall, securing them with the provided screws into the wall anchors.



**Insert the rubber securing gaskets that will compress the banner in between the base plate and the capping plate when the capping plate is installed.** See diagram above. Tip: Install the rubber securing gaskets into the gasket trap as shown with one of the two shiny sides out (facing you) over each screw, which will, by design, make the rubber gasket pop out a little so it grabs the banner better when the capping plate is installed. In order to press the material in, simply stretch the rubber gasket and push hard until the rubber gasket drops right into the gasket trap. You may cut the gaskets to a smaller length when necessary to cover the end screws.

**Measure and make a pencil mark on the tape plane area of the top base plate indicating where the center/middle of the top side base plate is.** Tip: you will need this mark to match up with the center mark on your printed banner.

**Attach the top of the banner to the top base plate.** Now we are going to line up the penciled center mark we made on the tape plane ridge with the printed center mark on your banner and begin to attach the banner along the tape plane ridge, which is the cutting groove. See diagram. Make six, 4 inch duct tape Pull Tabs and attach half of pull tab to the banner with the other half of the pull tab sticking up ready for attachment to the base plate's tape plane, along the cutting groove. Position two vertical pull tabs (one on each side of the printed center mark on your banner about 1 inch away from the banner's printed center mark) creating a 2 inch space between the two center tabs. Space the remaining four pull tabs 2 inches apart from each other, creating three tabs on each side, and allowing for visual line-up of the printed center mark on the banner with the penciled center marks on the frame by not covering up the banner's printed center mark with a pull tab.

Now we are going to lift the center of the banner with its six pull tabs and line up the banner's printed center mark with the pencil mark on the tape plane, and tape the top of the banner along the tape plane cutting groove.

Note: for purpose of an exact custom fit and to compensate for any positioning errors in installation, your banner should only be cut across the top side. The other three sides should have extra banner material that needs to be cut away a little later in the installation process. The top side should be pre-cut so we can hang it right now, making it easy to cut the other three sides once the top side is hung.

Line up the pre-cut top part of your banner up against the top section's tape plane cutting groove with the center pencil mark lined up with the center mark printed on your banner. The tape can go over the base plate and onto the truck body or wall; it will be cut away later. Continue taping the rest of the top of the banner to the base plate pulling slightly away from center and utilizing pull tabs spaced about 18 inches apart.

**The banner needs to be the exact size of the base plate tape plane cutting groove, but no math is needed. Simply trim the banner to exact size by cutting along the cutting groove of the sides and bottom of the banner.** Use a utility knife, razor or Xact-O blade. If you pull on the banner a little you can see the crease which is the tape plane cutting groove; insert your blade through the banner and into the cutting groove. Let the cutting groove guide your knife's blade to cut the banner along the groove for an accurate cut. **PLEASE CUT BANNER VERY CAREFULLY!**

Note: No (or almost no) banner material should be on the tape plane (only up to the tape plane cutting groove). If it is, trim the banner back. The tape plane area is territory needed for the securing of the duct tape.

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**Duct Tape tab and pull tight the rest of the banner to achieve tightness (no wrinkles).** Place tabs about 18 inches apart starting with the bottom center, then left center, then right center. Tighten the banner flat and taught by pulling tightly and securing each of the pull tabs to the tape plane. Adjust as needed until there are no wrinkles and the banner is as tight as you can get it! Then add an additional pull tab between each of the existing pull tabs, creating an approximate 9 inch space between pull tabs.

**Trim the excess tape that is on the truck or wall. Cut tape away right at the end up against the tape plane** (where the capping plate is going to hook over).

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**Hook the capping plate over the base plate and screw the capping plate down onto the base plate utilizing the self tapping screws a foot apart and into and along the screw groove on the capping plate, which will tighten the banner further.**



**And you're done!**