

## INSTRUCTIONS

The first thing you notice in the world of grille badges is that there is no standardization. Size and shape you would expect to be different, that's all part of the design. But, as far as mounting, each company had their own ideas and, for the most part, it worked. Until you try to design a common mounting plate. Then it gets a bit tricky.

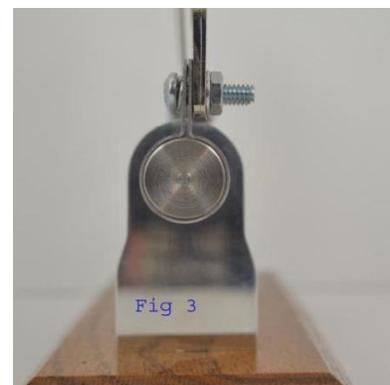
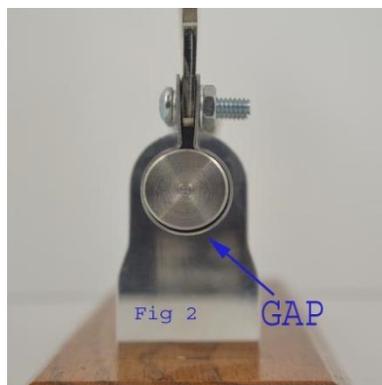
The adaptor plate included with the Desk Top Badge Bar is designed as the best compromise available, but it is still a compromise. The adaptor plate may need to be drilled, cut or modified to fit your badge. The adaptor plate is made of stainless steel and can be easily modified with a hacksaw, a cutting wheel, a Dremel tool, or file. It is designed to be sacrificial, so do what you have to. Be sure to wear eye protection and beware of sharp edges.

It works best to mount the grille badge to the adaptor and then fit the assembly to the badge bar.

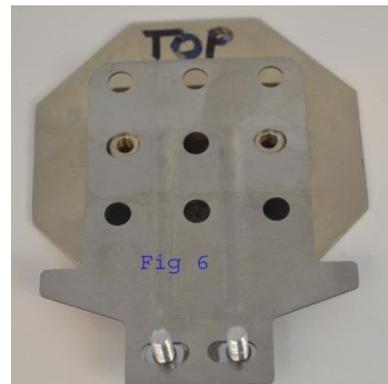
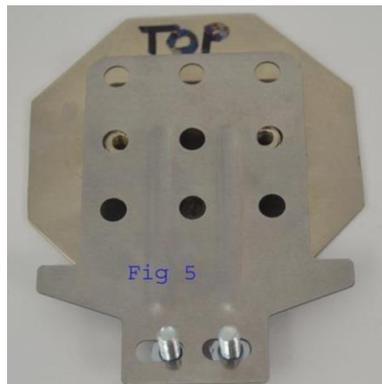
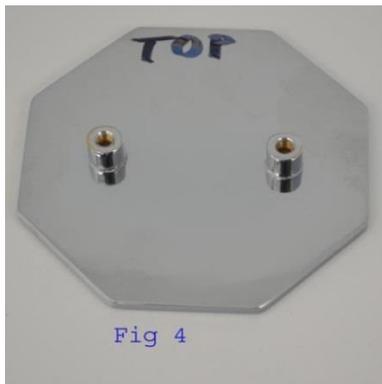
The following instructions and pictures will give you an idea on how to mount your badge. Since the badges can differ wildly you may have to follow a different path.

There are four basic types of badges.

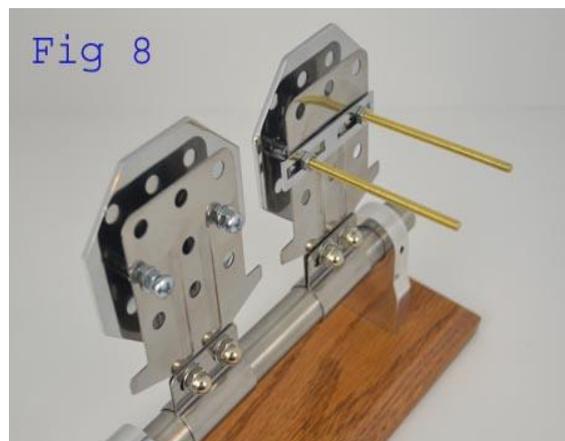
The first type has two mounting holes in the bottom flange. See Fig. 1. The adaptor is not needed. The mounting screws go through the clip and badge. If the badge is too thick it will not allow the clip to tighten around the bar. In Fig 2 you can see the gap between the clip and bar. You can cut a piece of matchbook cover or kraft type box about 1/2" X 1" and insert between the clip and bar. This serves to increase the diameter of the bar and allows the clip to tighten. In Fig 3 you can see an alternative solution where you place the badge behind the clip.



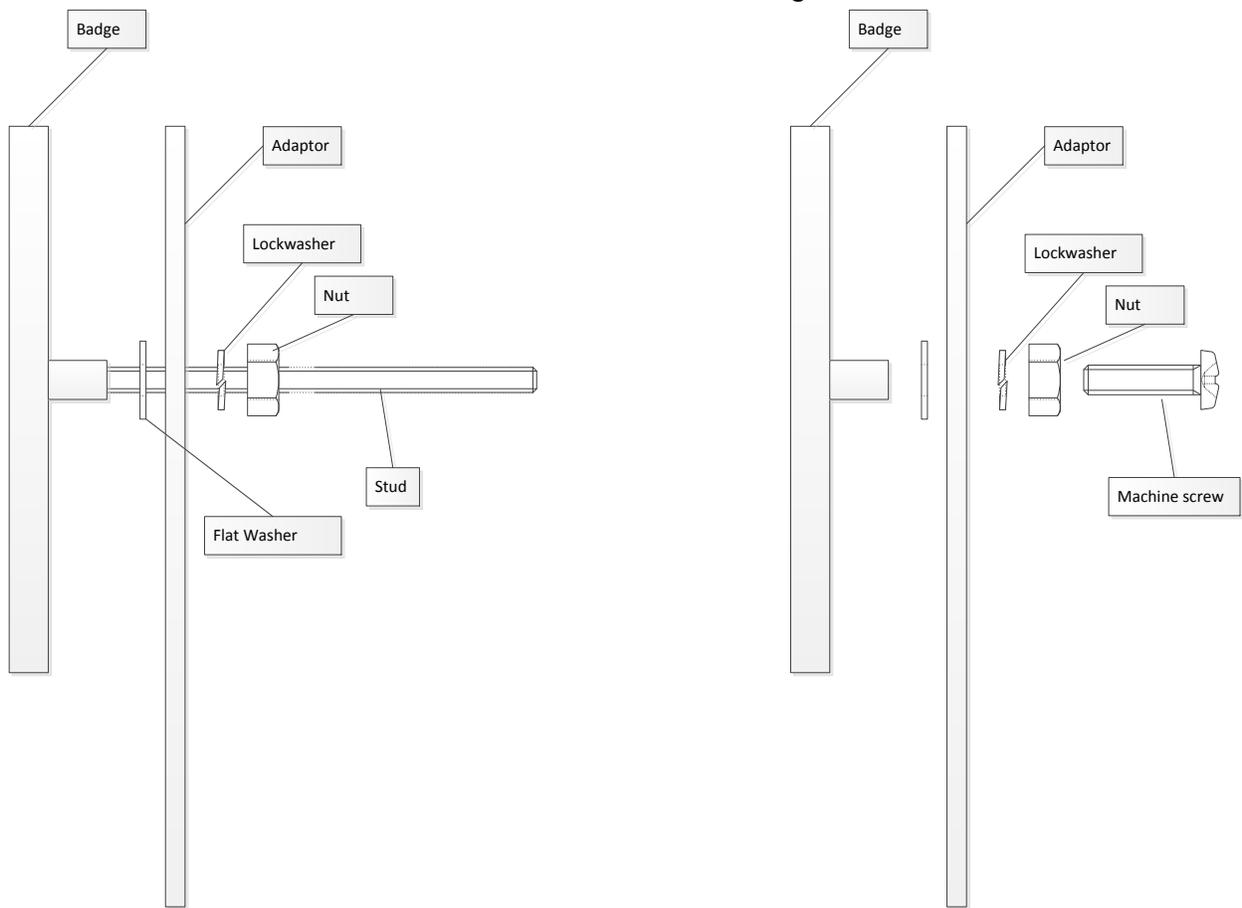
The second type of badge has one or two threaded nuts on the back. They are generally supplied with a long stud to fit through the car's grille. The threaded nuts may be aligned vertically, horizontally, centered or randomly. For this type of mounting lay the badge face down and mark the top of the badge (Fig 4). Lay the adaptor plate on top of the badge and note the location of the holes (Fig 5). The holes in the adaptor plate may align with the threaded nuts. If not, determine what modifications will be needed to the adaptor plate. In this case the threaded nuts are too close together. The two mounting holes were elongated with a round file. Both holes could have been enlarged with a slightly larger drill. The pictures below show a simple modification (Fig 6).



There are two methods to mount the badge to the adaptor plate. The first is to use the mounting hardware that came with the badge, usually a long stud and a backing plate/washer. These will work but generally leave an untidy look to the assembly. The studs can be replaced with a shorter bolt and nut arrangement that is simple to install and give the finished assembly a cleaner look. Figure 7 shows the same badge mounted with the original long studs on the right and shorter aftermarket hardware on the left.



The illustration below shows how the hardware is arranged.



The flat washer shown would be needed if the threaded nut on the back of the badge goes through the hole in the adaptor plate. Since the size of the mounting hardware is not standardized you will have to determine the size. Most of the home improvement stores or a good hardware store will have a sizing chart and a selection of hardware. So for, the most common sizes I have found are M4-.7 and 10-24

The third type of badge has a single stud sticking out of the back. The size and threads are varied and, on older badges, can even be Whitworth. And there is no requirement that the stud be in the center. An example is shown below. The mounting method is fairly simple and shown in the pictures below.



In this case the stud fit through the ¼ inch hole in the adaptor plate. If it hadn't the hole can easily be opened to the appropriate size with a drill. In Figure 10 there is a nut on both sides of the adaptor plate. This allows the badge to be moved in and out to match the depth of the other badges. A lock washer between the nut and adaptor lets you lock it in place.

The fourth type of badge has two holes in the badge itself. The intent is for a long screw to pass through the holes and through the grille of the car. These are simple to mount but are not as good looking as the others. If you use a machine screw the same size as the hole in the badge you then have a large screw head on the badge itself. If you use a smaller, less noticeable head, the screw diameter becomes very small. The pictures below show the same badge mounted with two different size screws. The final decision is up to you.



As stated earlier, the adaptor may need to be modified to mount the badge. They can also be modified to remove excess material. The pictures below are examples of what can be done. The ears are only used for mounting the picture frame and are easily removed. On the Fireman's badge below, most of the adaptor plate has been cut away. How much, if any, of the adaptor you remove is optional. It's all about how it looks and you have to be the judge of that. The modifications can be done with various tools. Please work carefully, wear eye protection and gloves and smooth any sharp edges.



Fig 14

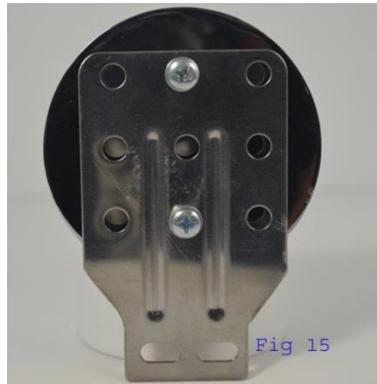


Fig 15



Fig 16

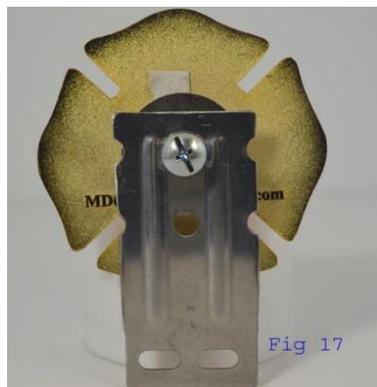


Fig 17



Fig 18

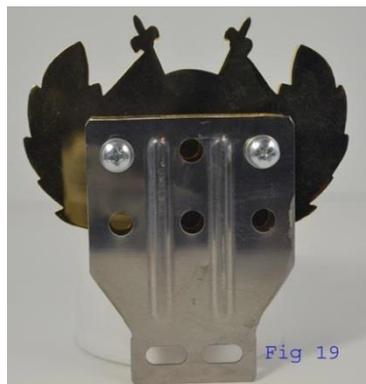
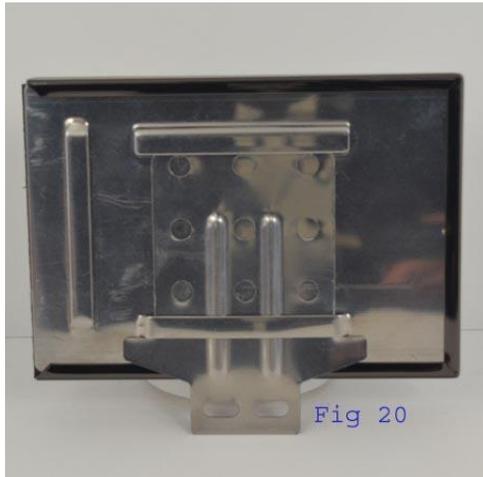


Fig 19

## PICTURE FRAMES

Pictures can be displayed in both landscape and portrait. Disassemble and reassemble the picture frame like any other making sure that the frame adaptor is installed correctly per the pictures below. Install the mounting adaptor in the frame adaptor before reassembling the picture frame.



## MOUNTING BADGES TO THE BAR

You will need a Phillips screwdriver and a 3/8" wrench. A nut driver works best.

Now that you have the badge mounted to the adaptor the next step is to mount the assembly to the Desk Top Badge Bar. The clips are very springy and it is difficult to hold everything together while starting the acorn nut. Included with your Desk Top Badge Bar is a pair of longer screws and nuts to make it easier. After you get the badge assembly started you replace the longer starter screws with the shorter final screws. See Figs 22 & 23.



Use the longer screws to get started. Hold the badge and adaptor assembly and insert the first screw, add the nut and finger tighten. Install the second screw and nut and tighten both screws just enough that the badge will not fall over.



Remove one of the longer screws and replace with the shorter screw, washers and acorn nut and tighten. Remove the second longer screw and replace with the shorter hardware.



While the finish hardware is still snug you can move the clip left and right to get the spacing right. The spacing will depend on the size and shape of the badge itself. When you are satisfied with the arrangement tighten the hardware to keep everything in place. The hardware only needs to be tight enough to keep the badge from falling over.

If you plan to display your Desk Top Badge Bar higher than normal eye level tilt the badges forward a few degrees. If you are displaying it lower than normal eye level, tilt the badges back a few degrees. Experiment to see what looks best.

Any comments or suggestions to make the instructions better are welcome. Send to: [ThreeMainLLC@aol.com](mailto:ThreeMainLLC@aol.com) Thanks.