



2010 Toyota Tundra

PART# 44621 (Brushed) 44622 - (Polished) 44623 - (Black) Upper

After

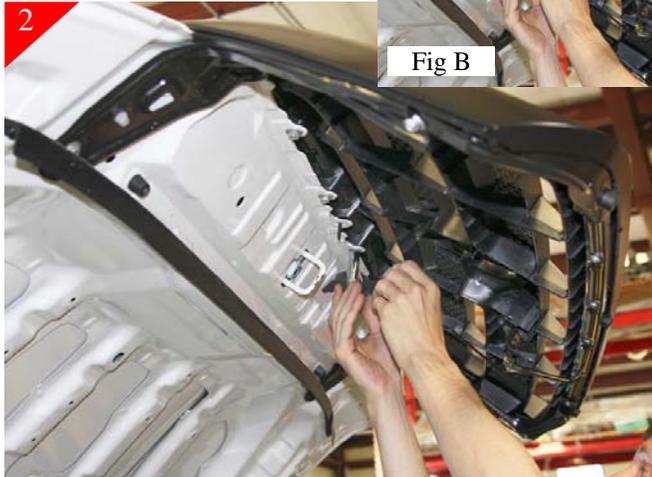


Hardware

- 2 - Brackets 
- 2 - Brackets 
- 4 - Lower Brackets 
- 1 - Hood Latch Bracket 
- 8 - 10-24 clips
- 12 - 10-24 x 5/8" Phillips head bolts
- 4 - 10-24 Nyloc Nuts
- 4 - Self Tapping Screws



First start by opening the hood on your vehicle. Next there are the (3) 10mm bolts on both the driver and passenger side of the truck that attach the steel brace and the stock grille shell together that need to be removed (Fig A & B).



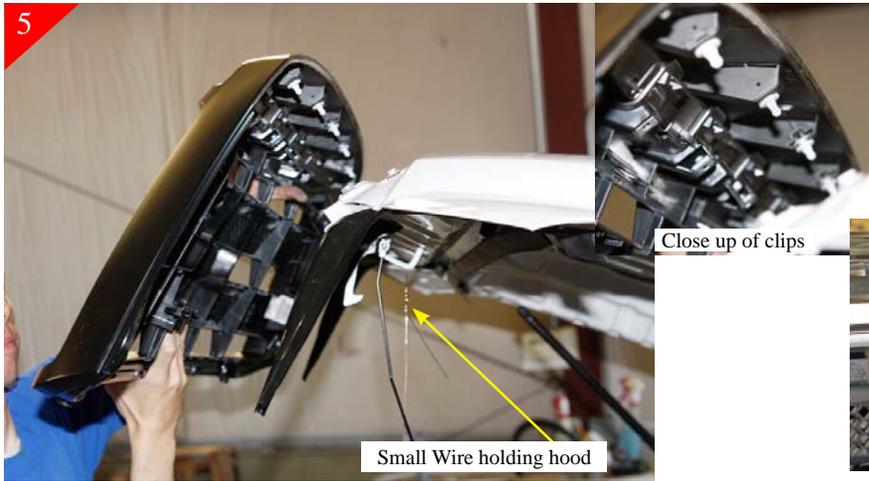
Locate the (6) 10mm bolts shown above that attaches the stock grille shell to the hood of the vehicle and remove (Fig A & B).



Locate the hood release mechanism and remove the hood release rod shown above but pulling it out of the snap clip holding in place. Rod will pull out with very little tension.



Now you will be removing the hood release lever from the stock grille shell. You will be reattaching the stock lever to the new billet grille in latter steps. Also a small wire or rope can be use to hold the hood at a workable height. Remove before closing hood.



Small Wire holding hood

Close up of clips

Next you will be removing the stock grille shell from your vehicle. There are plastic clips along the top of the stock grille shell that attach to the hood. Release by pulling out on the grille shell. These clips are for Factory install purposes only. So when removing shell the clips may break.



Close up of cutting

Move grille shell to a protected work surface so as not to scratch the face of the shell during install. Now you will be removing the center portion of the stock grille shell. Using a air saw or other cutting devise. Remove the center portion of the stock grille shell by cutting all the horizontal and vertical attachment points. Make sure and leave material for finish sanding. See step 7 for cutting the vertical attachment point.



Close up of vertical cut

Fig B

Shown above is cutting of the vertical attachment point. Again leave some material for finish sanding. (See Fig B for after cut photo).



With all Attachment points cut the stock center will be free at this point, and remove.



Sanding of vertical cut

Fig B

Next sand or grind all cut areas smooth with the shell. (Fig B) Shows the vertical sanding.



After sanding down smooth with the stock shell, follow up with some finish sanding. We recommend using a 150 grit sand paper.



Locate the (4) bottom brackets and place supplied u-clips on the short bent end of the brackets. Now locate (4) top brackets and place supplied u-clips on the long end of the brackets. Then attach top brackets to billet grille using 10-24 x 5/8 phillips head bolts to the already placed u-clips. The upper portion of the top brackets attach using the stock bolts removed in step 2. You will need to remove these top bolts before attaching grille shell back to vehicle. Attach bottom brackets to billet grille using 10-24 x 5/8" phillips head bolts this attaches to the already placed u-clips as shown above. Now place billet grille into opening and center attach bottom brackets to the steel framing as shown above using the #8 phillips head screws.



After attaching billet grille you will need to attach the hood release brackets to billet grille. Attach supplied bracket shown above to the mounting tabs in billet grille using the supplied 10-24 x 5/8" bolts and 10-24 Nyloc nuts.



Now using the stock bracket that was removed in step 4, attach to the just placed bracket in step 12 using the supplied 10-24 x 5/8" and 10-24 Nyloc nuts.



Now you are ready to place the shell back on vehicle. Make sure that you have removed the stock bolts from the top portion of the top brackets, this will leave the top portion of the billet grille loose. Place stock grille shell back on vehicle. Align the plastic clips along the hood line and push in place. Align the top brackets with the tabs in hood as shown above. Attach with the stock 6mm bolts as shown above.



Attach the outer portion of the grille shell to steel braces using the stock 6mm bolts.



Re-attach hood rod that was detached in step 3. Check alignment of stock grille shell before closing hood. Install is complete.

NOTE:

Insure all fasteners OEM & others are secure and in place. Check fitment of plastic shroud core support cover to insure that it does not interfere with hood latch operation.

Completed Installation

For installation of billet grilles that require cutting of the stock shell, proper tools, knowledge and skill are needed. Carriage Works is not responsible for care & accuracy of the installation, only for Fit & Finish of its products. Use a qualified installer or contact original vendor for references to complete all instructions.

NOTE: Please adjust horizontal blades if irregular. This is the result of shipping and handling outside of Carriage Works control. Also Carriage Works Recommends applying a high quality automotive wax to maintain the original appearance.