



2007-08 Nissan Altma InVisi-Lok

After

PART# 43801 (Brushed) 43802 - (Polished) 43803 - (Black) Upper InVisi-Lok

Hardware

- 2 - 1/4-20 x 5/8" Bolts
- 2 - 1/4-20 Nyloc Nuts
- 2 - Washers
- 8 - 10-32 x 5/8" Bolts
- 8 - 10-32 Low profile nyloc nuts



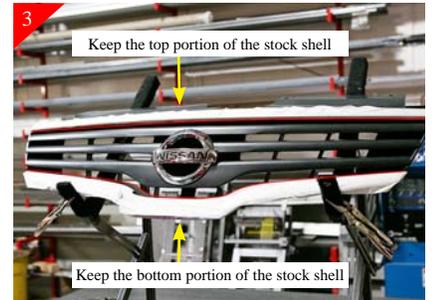
Show with optional lower bumper grille Part#43812



Open hood and remove (4) rivets shown above in red.



Locate the clips along bottom of stock grille shell. Release clips by lifting up and pulling outward on the shell. (Fig B) shows close up of the clips along bottom of shell. Grille shell will be free at this point.



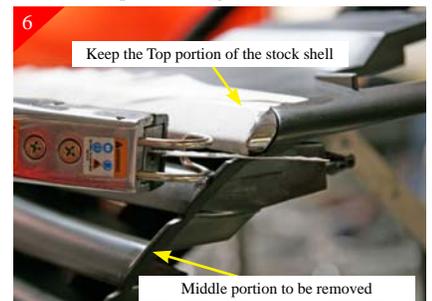
Next move stock grille shell to a protected work surface. Next you will removing the center portion of stock shell. You will need to keep the top and bottom portion of the stock shell for the installation of billet grille. See next step for cutting instructions.



Starting with the bottom cut the vertical attachment points using an air saw or other cutting devise as shown above. Make sure and leave material so that you can come back and do finish sanding. (Fig B) Shows removal of bottom portion of the stock grille shell after cutting.



Lay stock grille shell face down on a protected work surface. Locate the (2) stock mounting clips shown above. (Fig B) shows mounting clip removed.



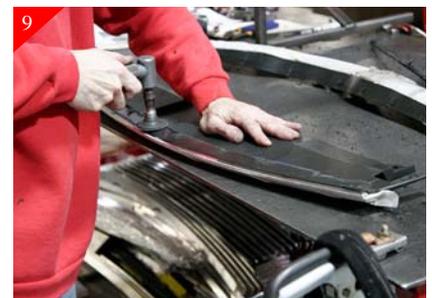
Now you will be removing the top portion of the stock shell from the middle portion. Using an air saw or other cutting devise remove starting at one corner as shown. See next step for more cutting instructions.



Turn stock shell over face down and cut all the vertical attachment points using an air saw or other cutting devise as shown above. Make sure and leave material so you can come back and do finish sanding.



Your cut grille shell should look as those pictured on the right hand side of the above photo.



Using an air sander or sanding block, sand all cut areas smooth with shell for both the top and bottom portions of stock shell.



Tape a pair of vice grips using masking tape to protect during the clamping process (Fig A). Align the billet grille with the top portion of the stock shell. Then use the vice grips to clamp one end and then align and clamp the other end in place. Adjust as necessary to get the correct alignment.



After aligning using a 90° scribe mark the mounting locations where it meet the stock shell as shown above. After marking remove billet grille.



Drill the just marked hole locations using a 3/16" drill bit as shown above.



Next you will marking the hole locations for the bottom portion of shell. Following the same procedure as in step 10 for marking the top. Use a pair of taped vise grips and clamp one end of the billet grille and shell together, align and clamp the other end. Adjust as necessary to get the correct alignment.



After aligning using a 90° scribe mark the mounting locations where it meet the stock shell as shown above. After marking remove billet grille.



Drill the just marked hole locations using a 3/16" drill bit as shown above.



Align billet grille with the bottom portion of stock shell. Again using a pair of taped vice grips clamp in place. Using the supplied 10-32 x 5/8" bolts, place bolts in just drilled locations and secure with the supplied 10-32 nyloc nuts.



Following the same procedure as in step 16, align the billet grille with the top portion of the stock shell. Using vise grips to clamp in place. Using the supplied 10-32 x 5/8" bolts, place bolts in just drilled locations and secure with the supplied 10-32 nyloc nuts.



Next you will be attaching grille back to vehicle. (Ref steps 1 & 2) Place shell on vehicle and snap into place. Replace the factory rivets except for the outer (2) rivets in these locations you will fastening using the supplied 1/4-20 x 5/8" bolts and 1/4-20 Nyloc nuts with the washer going on the Top side of plastic as shown above. These bolts will allow for any adjustments that you may need to make. After adjusting tighten the (2) outer bolts.

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.