

IMPORTANT: PLEASE RETAIN THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE



**2009 Toyota RAV-4
Stainless Steel
Mesh Grilles**
L 30 G8P



Fine Mesh Part #1130-0102-09

Quantity	Description	Part No.
1	Upper Mesh Grille (includes):	*****
	12 Gage S.S. Polished Surround	1130-0038-09
	Fine Mesh Section	1130-0020-09
	Top Mounting Plate	1130-0210-09
	Lower Retainer w/Pins	1130-0049-09
	(10) #8-32 ESNA Half Nuts	1999-0065-00
1	Lower Grille Mesh Surround	1130-0022-09
1	Lower Grille Mesh Section	1130-0021-09
1	Hardware Kit (components listed below):	1130-1902-09
	(8) #8-32 ESNA Half Nuts	1999-0065-00
	(4) .156" x 1" Vinyl Caps	1999-0241-00
	(1') 3/4" x .045" Double Faced Tape	3004-9247-92
	(8) 1.006" x .189" x .062" Black Plastic Washers	1999-0264-00
	(1) Upper Grille Hole Location Template	1130-0039-09
	(1) Emblem Plate	1297-0158-08

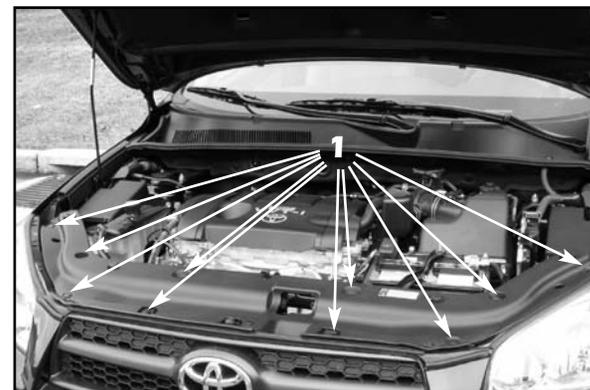
"O" Part #1130-0185-09Q

Quantity	Description	Part No.
1	Upper "O" Grille (includes):	*****
	12 Gage S.S. Polished Upper "O" Grille	1130-0184-09
	Top Mounting Plate	1130-0210-09
	Lower Retainer w/Pins	1130-0049-09
	(10) #8-32 ESNA Half Nuts	1999-0065-00
1	12 Gage S.S. Polished Lower "O" Grille	1130-0183-09
1	Hardware Kit (components listed below):	1130-1902-09
	(8) #8-32 ESNA Half Nuts	1999-0065-00
	(4) .156" x 1" Vinyl Caps	1999-0241-00
	(1') 3/4" x .045" Double Faced Tape	3004-9247-92
	(8) 1.006" x .189" x .062" Black Plastic Washers	1999-0264-00
	(1) Upper Grille Hole Location Template	1130-0039-09
	(1) Emblem Plate	1297-0158-08

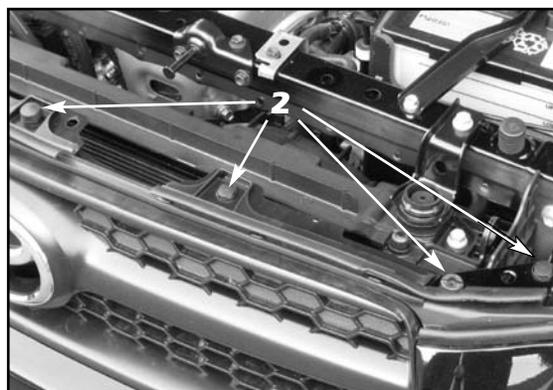
**WARNING! PLEASE HANDLE WITH CARE!
THE EDGES OF THE STAINLESS STEEL MESH &
GRILLE MAY BE SHARP!**

Important information before you begin:

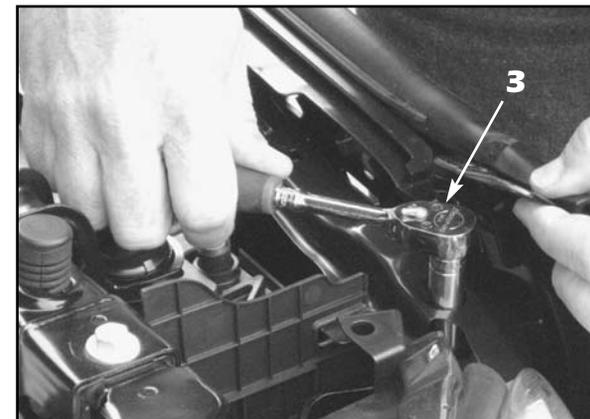
This E&G grille installation kit includes grille hole location template(s) to drill mounting holes in the vehicle. Before marking or drilling any holes into the vehicle, you **MUST** verify that the template(s) provided in this kit match the mounting pin locations on the grille(s).



1. Open the hood and remove the factory push pins retaining the black radiator support panel cover and remove the cover.



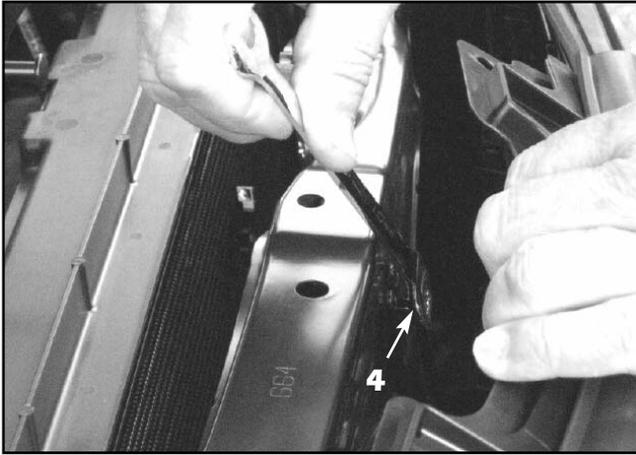
2. Remove the two (2) factory screws and five (5) factory push pins retaining the sides of the bumper cover.



3. Pull up on the outer corners of the bumper cover and use a 10mm deep socket to remove the two (2) bolts securing the upper brace.

Shop Tip:

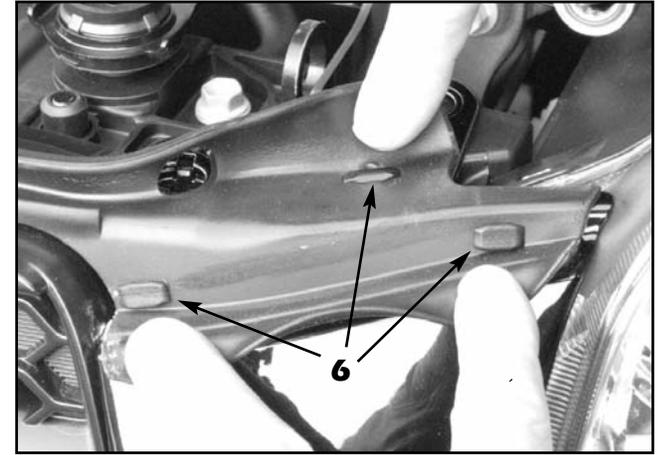
Use a magnet to remove the bolts once they are loose.



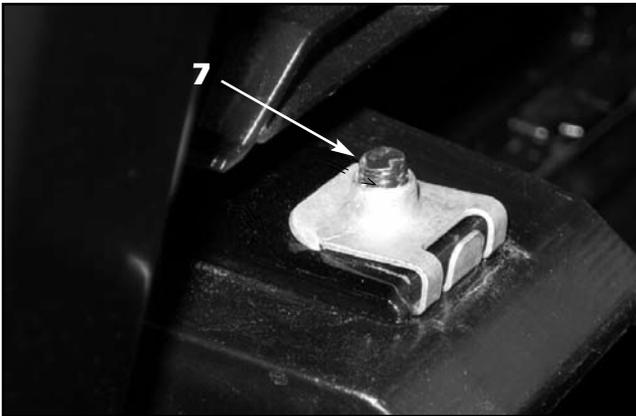
4. Disconnect the electrical connectors from the horns mounted onto the top brace and remove the 10mm hex bolt from the center bracket (where shown, pull the grille forward to expose the bolt).



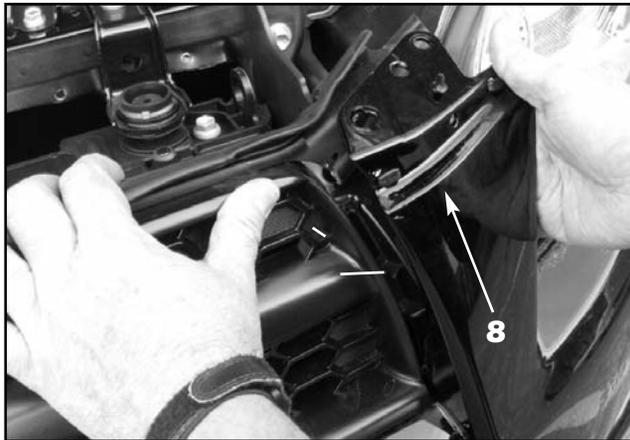
5. Remove the upper grille support bar from behind the factory grille. Save for reinstallation.



6. Remove the rubber weatherstrip from the clips holding it to the top edges of the bumper cover.



7. Pull the top of the factory grille toward you and remove the lower four (4) 10mm hex bolts and the mounting clips they thread into. **Shop Tip:** Use a small flat blade screw driver to carefully pry to clips off once the bolts are removed. You will not be able to remove the factory grille from the bumper cover if you do not remove the clips first. Do not drop the clips behind the bumper cover.



8. Pull out on the sides of the factory bumper cover to release it from the sides of the factory grille.

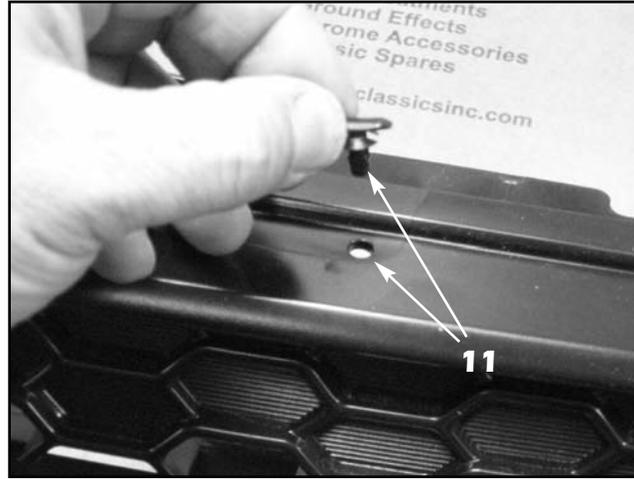


9. Push in on the factory grille while holding the sides of the bumper cover to release it.

Shop Tip:
Place a piece of cardboard in front of the AC condenser to protect it while removing the factory grille.



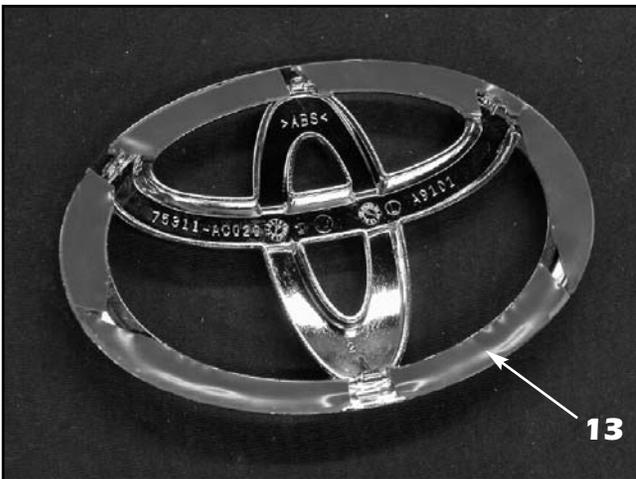
10. Carefully remove the factory grille from behind the bumper cover. The factory grille fits around the bumper cover so do not force the removal. Take your time and do not damage the painted bumper cover.



11. Remove the factory weatherstrip from across the top of the factory grille and remove the clips that retain the weatherstrip (to be reused on the mesh grille).



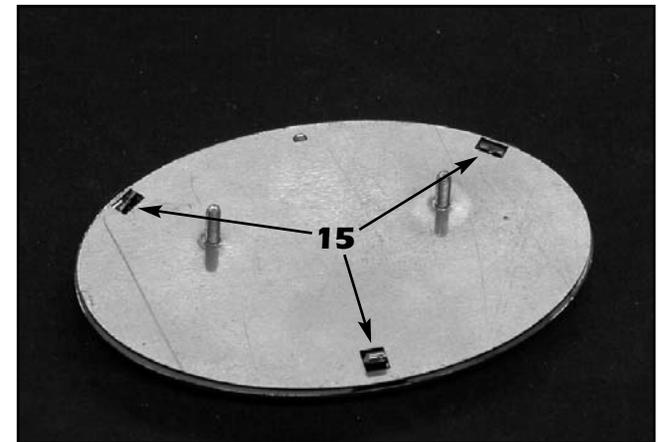
12. Remove the factory grille emblem by pushing in on the clips and push the emblem off.



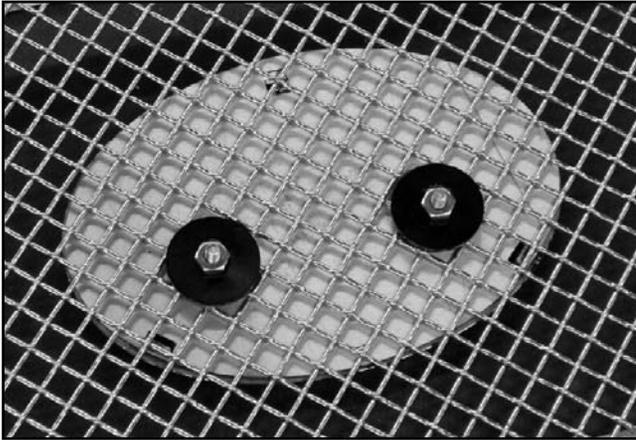
13. Clean the back of the emblem and install the supplied double faced tape (where shown).



14. Peel off the double faced tape backing, align the mounting tabs through the slots in the emblem backing plate and press the emblem firmly in place to set the tape.



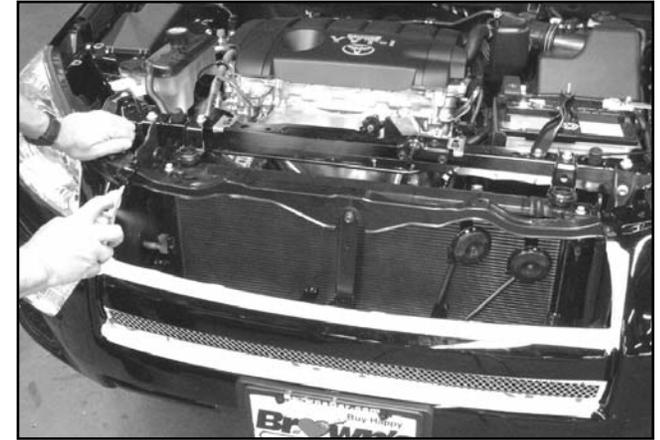
15. Trim the factory tabs protruding from the back of the emblem plate prior to installation onto the mesh grille to keep the tabs from contacting the mesh.



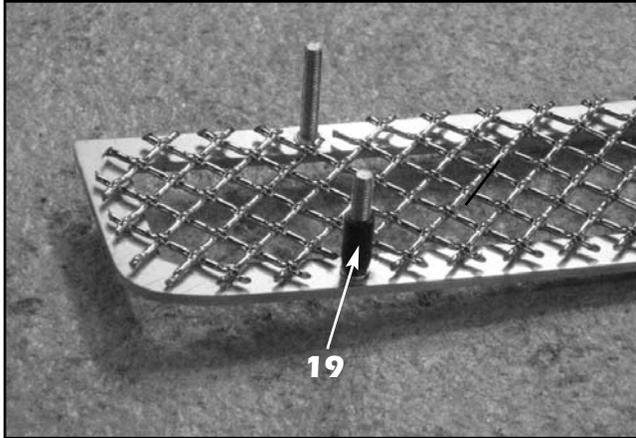
16. Carefully center the emblem assembly onto the mesh grille and install a 1" O.D. by 1/8" I.D. black plastic washer, stainless steel lock washer and a #8-32 stainless steel nut onto each stud and tighten. It may be necessary to clip the mesh in order to perfectly center the emblem.



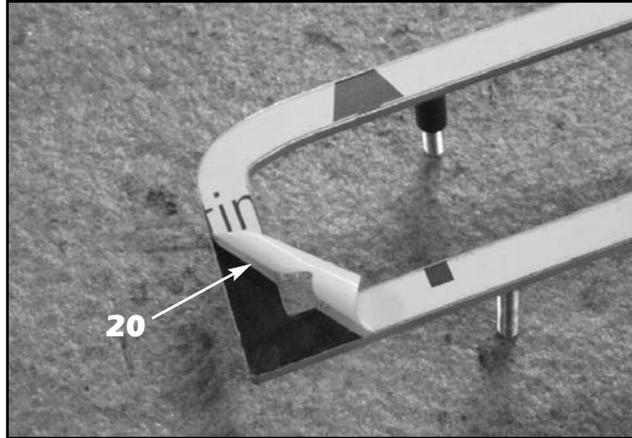
17. Reinstall the upper grille support, reusing the factory hardware previously removed. Reconnect the factory horns at this time.



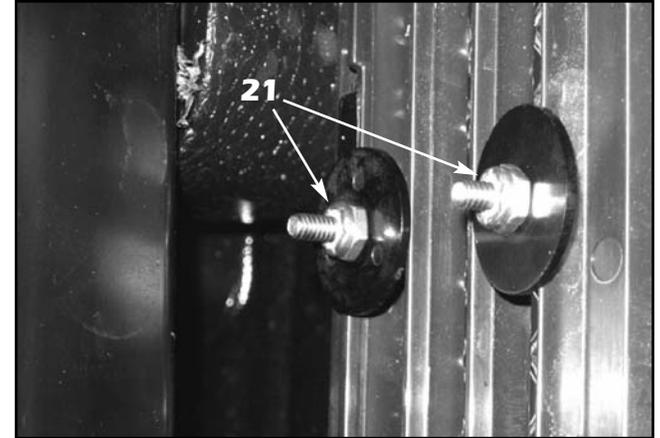
18. Carefully trim paint anything inside the grille opening with flat or semi-gloss black paint that would be visible through the mesh grille.



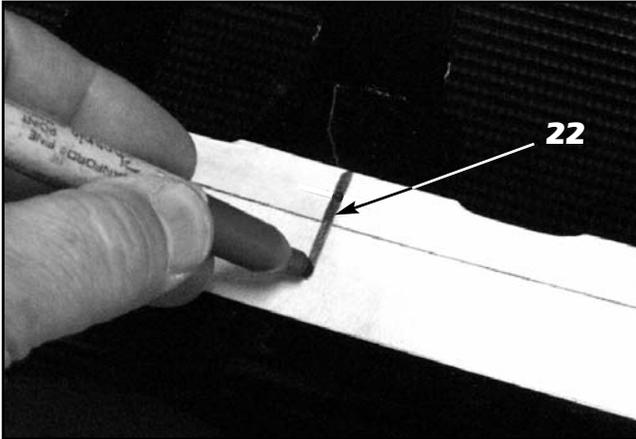
19. Trim the ends from the vinyl caps supplied in the hardware kit and install one onto each of the lower mounting studs.



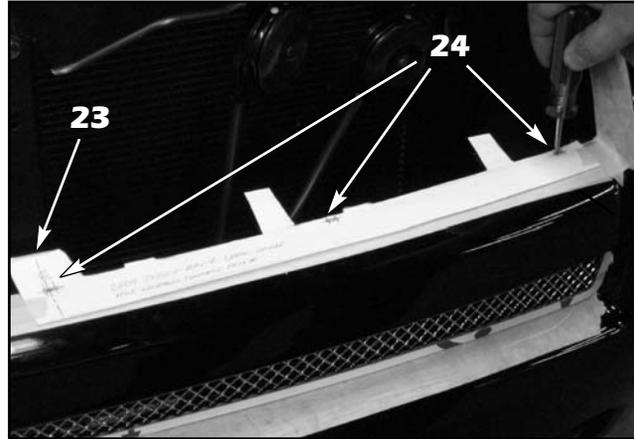
20. Prior to lower grille installation, peel back a corner of the protective covering on the lower grille surround.



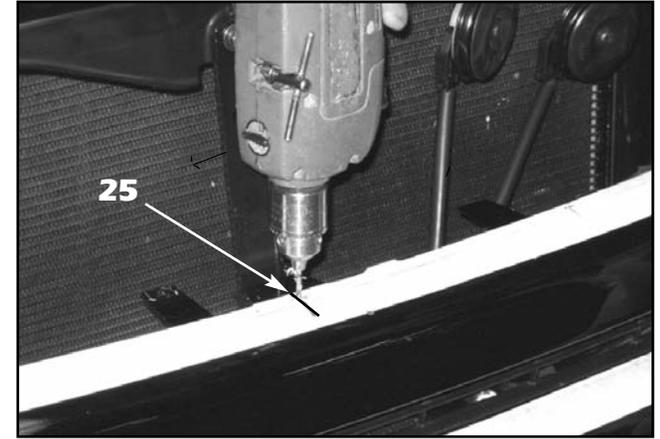
21. Align the mesh section and surround into the lower grille opening and install a large black plastic washer and a #8-32 ESNA lock nut onto the lower studs and tighten. **Do not overtighten or you will indent the stainless grille surround at the stud locations!**



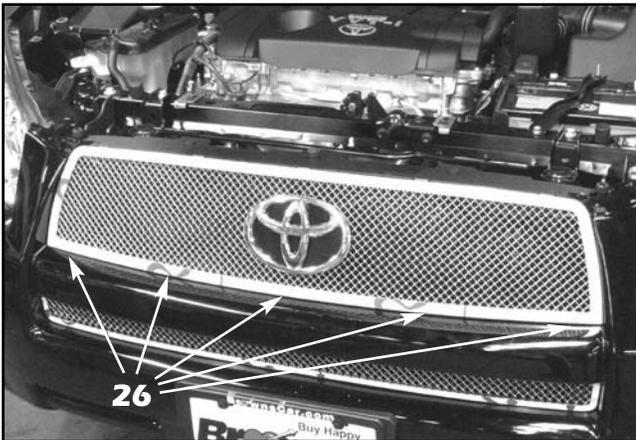
22. Apply masking tape around the edges of the bumper cover at the upper grille opening. Measure and mark the exact center of the grille opening (as shown).



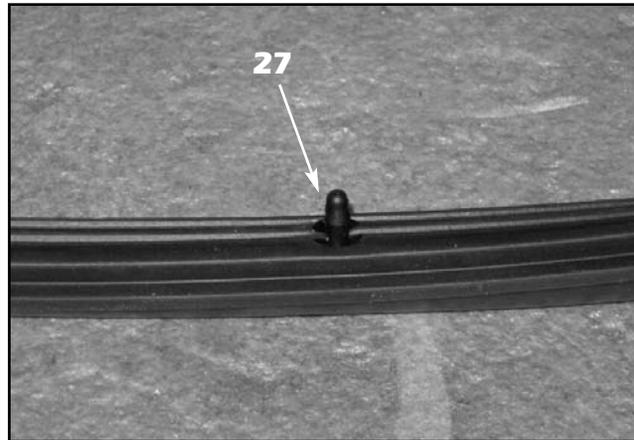
23. Cut out and align the upper grille lower mounting hole location template with the center line of the grille opening and tape it into place.
24. Use an awl or similar pointed tool to mark the center of the hole locations onto the bumper cover, then flip the template over and mark the hole locations onto the opposite side. Remove the template.



25. Carefully drill through the marks made in the previous step with a .125" (1/8") drill bit. Use the drill bit to connect the holes making a mounting slot to allow for slight left to right adjustment. **Do not slip with the drill bit while making the slots or you will damage the bumper cover!**



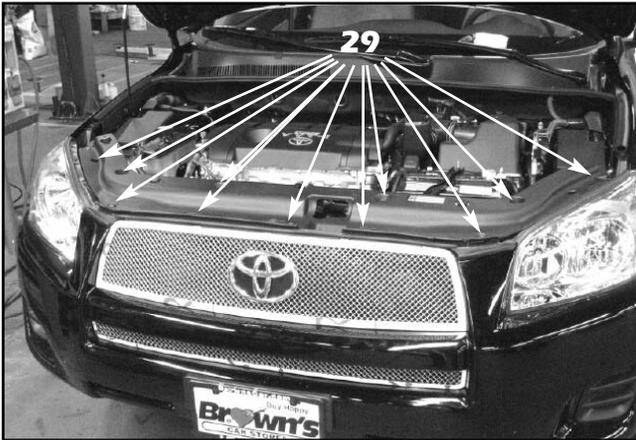
26. Align the mesh grille lower mounting pins with the slots drilled in the previous step and push the mounting pins through the slots until the grille is tight against the bumper cover.



27. Reinstall the weatherstrip push pins back into the weatherstrip prior to installation across the top of the mesh grille.



28. Reinstall the upper factory screws and push pins to retain the top of the mesh grille, then reinstall the rubber weatherstrip onto the mesh grille and the top edges of the bumper cover.



29. Reinstall the radiator support panel cover back onto the vehicle using the factory push fasteners.



30. Carefully close the hood to once again check for proper grille to hood clearance to make sure the radiator support panel cover did not push the assembled grille forward. The bumper cover surrounding the grille should also be flush with the hood.

31. Finished installation.