

IMPORTANT: PLEASE RETAIN THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE



**2010 Toyota Sienna
Upper and Lower
Stainless Steel
Mesh Grilles**

C 12 HOP



Part #1146-0102-11

Quantity	Description	Part No.
1	Upper Mesh Grille (includes):	*****
	Chrome Plated Mesh Sections ___ Right	1146-002A-11
	Left	1146-002B-11
	12 Gage Polished S.S. Surround	1146-0034-11
	Powder Coated Top Plate	1146-0210-11
	Lower Mesh Retainers w/Pins ___ Right	1146-0042-11
	Left	1146-0043-11
	(16) #8-32 ESNA Half Nuts	1999-0065-00
	(2) Black Rectangular Mesh Retainers	1099-0167-05B
1	Chrome Plated Lower Mesh Section	1146-0021-11
1	12 Gage Polished S.S. Lower Surround	1146-0022-11
1	Hardware Kit (components listed below):	1146-1902-11
	(8) 8-32 ESNA Half Nuts	1999-0065-00
	(4) 1.006" x .189" x .064 Black Washers	1999-0264-00
	(1) Upper Grille Hole Location Template	1146-0039-11
	(1) Lower Grille Hole Location Template	1146-0068-11
	(6) Small Black Plastic Washers	1999-0256-00

"Black Ice" Part #1146-B102-11

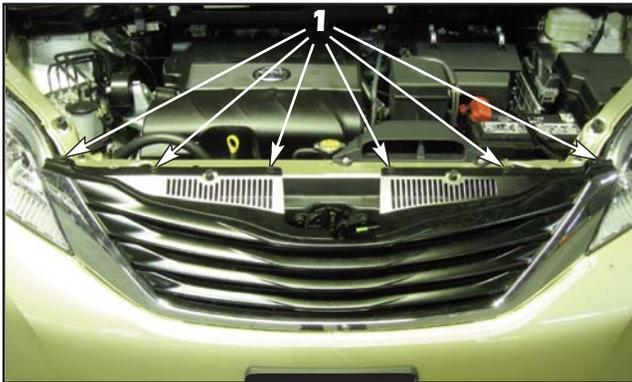
Quantity	Description	Part No.
1	Upper Mesh Grille (includes):	*****
	"Black Ice" Upper Mesh Sections Right	1146-002A-11BI
	Left	1146-002B-11BI
	12 Gage Polished S.S. Surround	1146-0034-11
	Powder Coated Top Plate	1146-0210-11
	Lower Mesh Retainers w/Pins ___ Right	1146-0042-11
	Left	1146-0043-11
	(16) #8-32 ESNA Half Nuts	1999-0065-00
1	(2) Black Rectangular Mesh Retainers	1099-0167-05B
1	"Black Ice" Lower Mesh Section	1146-0021-11BI
1	12 Gage Polished S.S. Lower Surround	1146-0022-11
	Hardware Kit (components listed below):	1146-1902-11
	(8) 8-32 ESNA Half Nuts	1999-0065-00
	(4) 1.006" x .189" x .064 Black Washers	1999-0264-00
	(1) Upper Grille Hole Location Template	1146-0039-11
	(1) Lower Grille Hole Location Template	1146-0068-11
	(6) Small Black Plastic Washers	1999-0256-00

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).

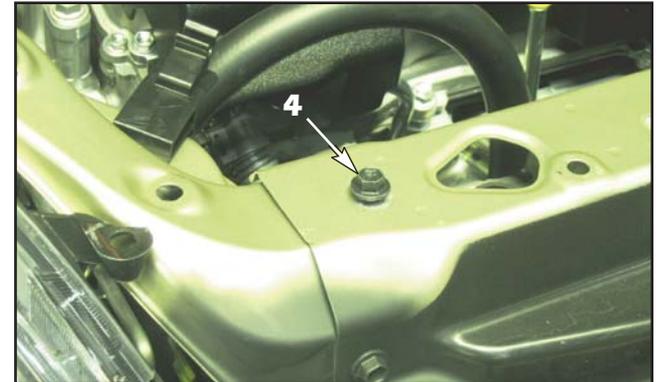
WARNING: PLEASE HANDLE WITH CARE! THE EDGES OF THE STAINLESS STEEL MESH & GRILLE CAN BE EXTREMELY SHARP!



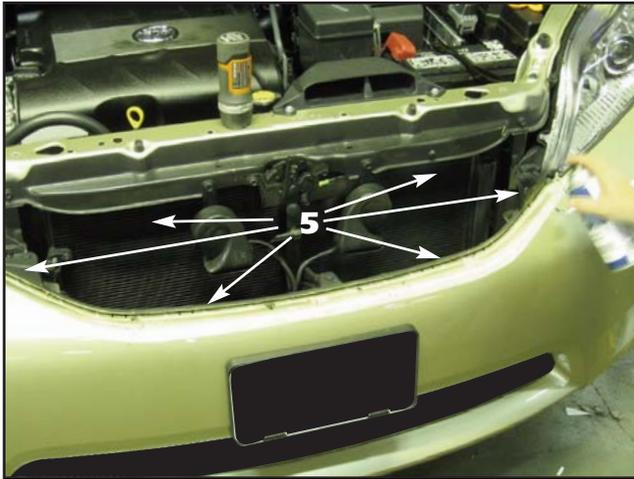
1. Open the hood and remove the factory plastic push pins (lift up on the centers of the push pins to remove them).
2. Use wide masking tape and carefully mask around the factory grille prior to factory grille removal.



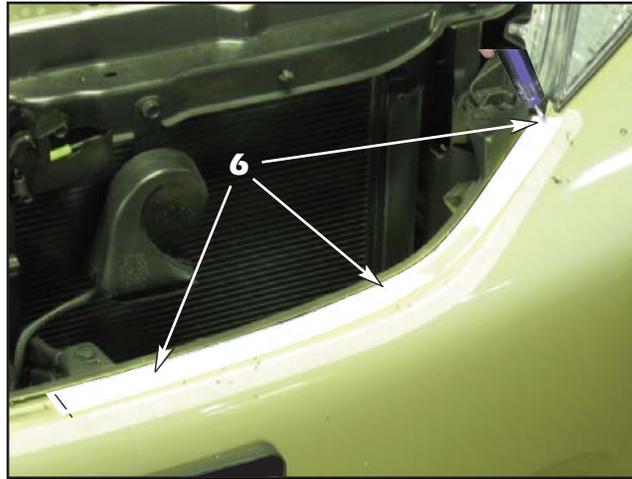
3. Push down on the lower factory grille retainers and remove the grille by pulling straight out.



4. Remove the two 10mm hex bolts (one per side) and save for reinstallation.



5. Tape up to the factory grille lower mounting channel and paint everything inside the grille opening including the top edge of the channel that will be visible through the mesh grille with flat or semi-gloss black paint.



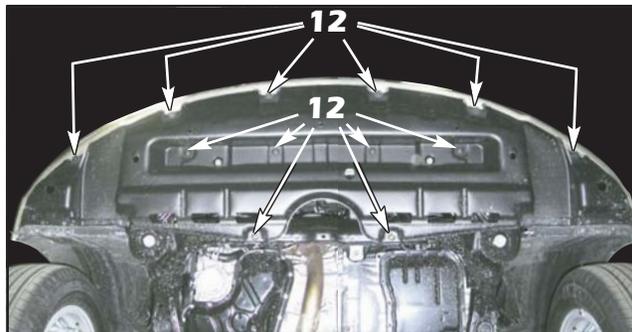
6. Measure and mark the exact center of the factory grille opening. Cut out and align the supplied **upper grille hole location template** and tape it into place. Mark the center hole locations, untape the template, flip it over and mark the holes on the opposite side.



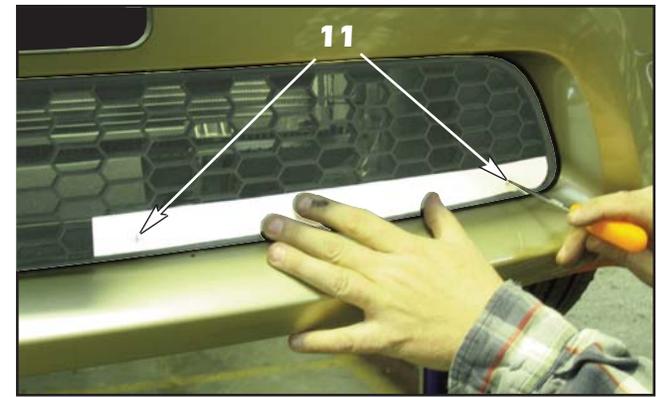
8. Remove the template and use a .125" (1/8") drill bit to drill through the marks made in the previous step. Use the drill bit to connect the holes, making a mounting slot.



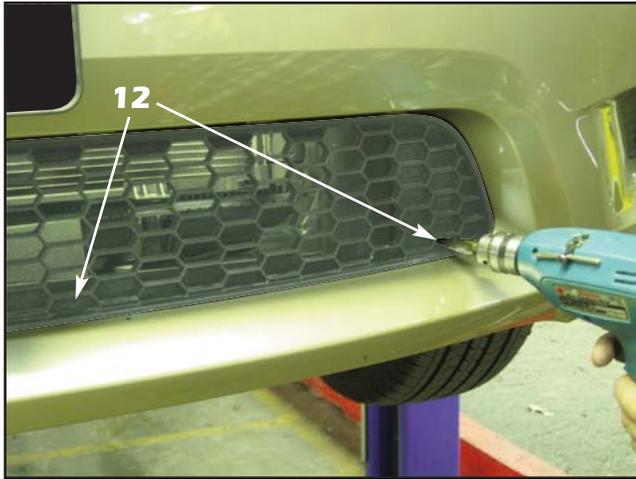
9. Raise the vehicle on a lift or use a floor jack and jack stands to support the vehicle. Remove the 10mm hex screws securing the left and right air deflectors (where shown).



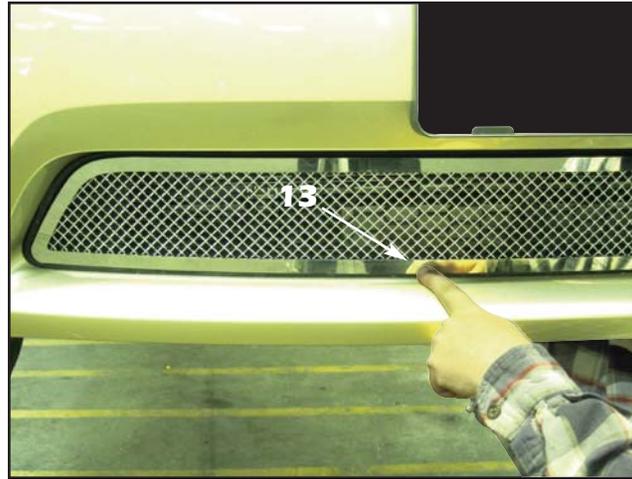
10. Once the lower air deflectors have been removed, remove all remaining plastic push fasteners and 10mm hex head screws retaining the lower pan to the bumper cover and remove it from the vehicle.



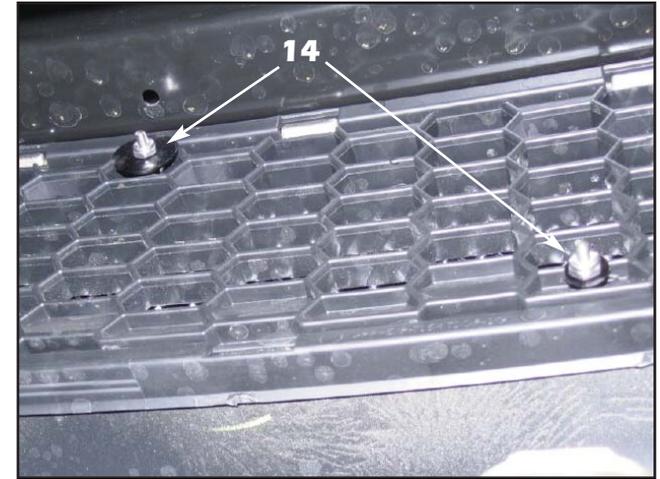
11. Cut out and align the **lower hole location template** and use an awl or similar pointed tool to mark the hole locations onto the lower factory grille insert. **IMPORTANT:** The **template** fits inside and flat against the lower honeycomb insert.



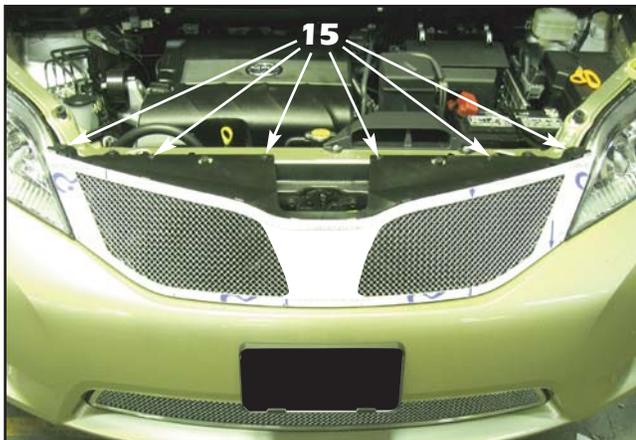
12. Use a 5/16" drill bit to drill through the marks made in the previous step.



13. Carefully align the **lower mesh section** and **lower grille surround**, making sure that all mounting studs pass through the openings or holes in the bumper cover. Push in on the **mesh surround** during the mounting hardware installation.



14. Install the **small black plastic washers** and **#8-32 ESNA half nuts** onto each bottom stud and tighten. Install the **large black plastic washers** and **#8-32 ESNA half nuts** onto the upper mounting studs (as shown). **DO NOT OVERTIGHTEN** the **ESNA half nuts** or you will indent the grille surround at the stud locations.



15. Install the **upper mesh grille** by first aligning the **lower mounting pins** through the holes drilled in **Step 8** (center ones first, then outer pins), then reuse the factory push pins to secure the **top plate** to the radiator support panel.



16. Reinstall the 10mm hex bolt removed in **Step 4**.



17. Peel off the protective backing from the upper and lower mesh grilles and use a mild solvent to remove any glue residue. Use alcohol or glass cleaner to remove any solvent residue.
18. Finished installation.