



# PATENT PRODUCT

## Grille Installation Instruction

Rev. 190801

<b>Part#</b>	<b>GR20HFJ30 C/J/S</b>	<i>Application</i>	<b>For 2018-2019 Toyota Tundra Main Upper With Front Sensor TSS</b>
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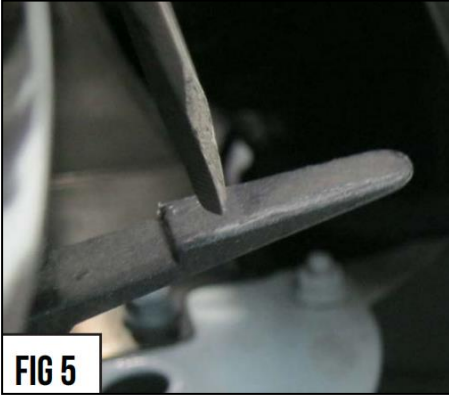




<b>Parts List</b>	Item	Part Name	QTY	Description	Item	Part Name	QTY	Description
	1	Billet Grille	1	Stainless steel	10	U-Clip Nut	6	8#
	2	Lock Nut	14	10#	11	Screws	10	8# x 3/4"
	3	Bolts	9	10-24x1/2"	12	Screws	6	10# x 1"
	4	Hex Flange Nut	10	6-32	13	Driver Side Overlay Bracket	1	
	5	Flat Washer	4	∅ 16x∅ 6.5x1	14	Passenger Side Overlay Bracket	1	
	6	Hex Flange Nut	4	M4	15	Extensions Brackets	3	
	7	Bolts	4	M4x20	16	Top Mounting Plate	1	
	8	Stud	4	10-24x1"	17	Logo Mounting Plate	1	
	9	Flat Nut	6	8#				

**Install Notes:** Overlay  Replacement  Drill  Cut

Step	Description	illustration
1	Identify the grille & hardware with parts list.	N/A
2	Turn off engine, chalk tires with stop block, open the hood and disconnect battery. (Fig 1)	
3	It is now time to remove the factory grille from the vehicle. From underneath the hood, begin grille removal by prying free all the Push Pin plastic fasteners from the factory grille located near the head lamps with a prying tool. (Fig 2)	
4	Access TSS (Toyota Safety Sense) power harness and disconnect.(Fig 3)	



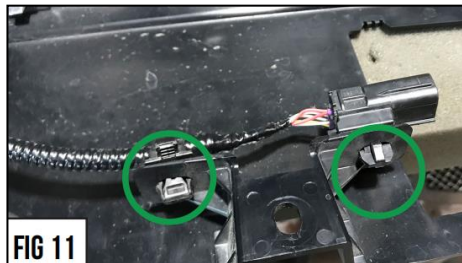
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5	Remove four 10mm bolts that secures plastic radiator cover. Remove and set aside plastic radiator cover to be re-installed. (Fig 4)		
6	Pull the top of the factory grille slightly forward a couple of inches, reach down behind the factory grille with a long flat screwdriver and press on two plastic latches located on the bottom and ends of the factory grille (as seen in Figure 4) while pulling the bottom of the factory grille forward, remove the factory grille from the vehicle.(Fig 5-6)		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>FIG 4</b></p> </div> <div style="text-align: center;">  <p><b>FIG 5</b></p> </div> <div style="text-align: center;">  <p><b>FIG 6</b></p> </div> </div>			
7	Place the factory grille face down on a padded surface (take special care to protect the chrome factory shell). On the back of the grille assembly use a Phillips screwdriver to remove two Phillips screws from each side of the factory grille as seen in Figure 7 .(Fig 7)		
8	Now remove the black plastic grille insert from the factory grille shell by unlatching thirteen plastic latches around the grille with a prying tool and remove the black plastic grille insert (Fig 8). With a pair of dikes or snipping pliers break off all thirteen clips from chrome plastic frame, this will allow your billet grille to sit flush with the chrome frame during installation as seen in Figure 8 & 9.		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>FIG 7</b></p> </div> <div style="text-align: center;">  <p><b>FIG 8</b></p> </div> <div style="text-align: center;">  <p><b>FIG 9</b></p> </div> </div>			
9	Remove the TSS Sensor Module and harness from factory grille. Note the TOP side orientation of the sensor. (Fig 10)		
10	Remove harness and connector from factory grille tabs.(Fig 11)		
11	Install factory TSS Sensor Module to provided Logo Mounting Plate. Use supplied (4) #10 screws, washers, and lock nuts. Tighten and torque to 30 in-lbs.(Fig 12)		

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|----|--|
| 12 | Put into place the TSS assembled with the Logo Mounting Plate and install onto grille. Use (4) #10 lock nuts and tighten & torque to 30 in-lbs. Note orientation of TOP side of module.(Fig 14)  |
| 13 | Connect harness to module, press harness cable mounts into position and wiring harness loom into the bracket mounts as seen in Figures #14 & #15.  |
| 14 | Assemble provided Top Mounting Plate to grille using the pre-determined mounting provisions. Secure 10# x1" studs on the grille. Position Top Mounting Plate mounting brackets over the threaded studs. Tighten with 10# lock nuts. (Fig 16) |



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|----|--|
| 15 | Fix the grille to the back of factory shell, drill 3/16" holes through the side welded brackets (on the grille) and through the shell plastic as seen in Figure #17 & #18. (4 holes).  |
| 16 | Insert the #8 screw through the four side welded brackets and tighten (Fig18). Place the passenger and driver overlay brackets below the top plate. Use your factory screw to tighten. |



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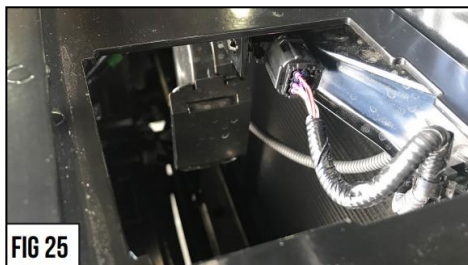
18	Place the three extensions brackets on the bottom portion of the shell, inserting the brackets on top the three threaded studs on the back of the grille. Two will sit on the passenger side of the shell lip and one on the driver side.(Fig19)
19	Drill a hole through each hole on the extension bracket through the factory grille shell. (6 holes)(Fig20)
20	Insert a #8 screw through each hole drilled on the previous step (6 holes), insert a flat nut on the opposite, tighten the screws.(Fig21)



21	Install a nylon lock nut onto each of the three threaded studs to secure the extension brackets to the new grille.(Fig22)
22	On your vehicle unscrew and flip both horns located on the opening. (This will give access to the LED light)(Fig23)
23	Place assembled grille back onto the vehicle opening by clipping on the bottom to the vehicle then clip the top of plastic chrome frame. At this point, install the grille LED Light Power Wiring Harness and route towards battery.(Fig24)



24	Now to secure the Top Mounting Plate in the reverse order that it was removed. Insert (6) #10 screws where you first removed the fasteners and the bolts. Plug the TSS Power Harness back in.(Fig25)
25	Re-install the TSS (Tundra) Access Panel.(Fig26)
26	Reconnect battery terminals. Install Complete. Carefully inspect your work and make certain all components have been installed and align correctly as factory fitment.(Fig27)



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