

# 2018 TOYOTA TUNDRA, TACOMA TSS LOGO INSTALLATION



**PART #:** 20966, 20966B, 51966, 6319661, 6319661-BR, 6719661, 6719661-BR, Z319661  
20950, 20950B, 51951, 6319511, 6319511-BR, 6719511, 6719511-BR, Z319511



1. Disconnect negative battery terminal.



2. Remove access panel (Tundra only) and disconnect TSS harness .



3. Remove TSS sensor module and harness from factory grille.  
Note the TOP side orientation of the sensor.



4. Remove harness and connector from factory grille tabs.



5. Install factory TSS sensor to mounting plate. Use supplied (4) #10 screws, washers and lock nuts. Torque to 30 in-lbs.



6. Install supplied 4 spacers as shown



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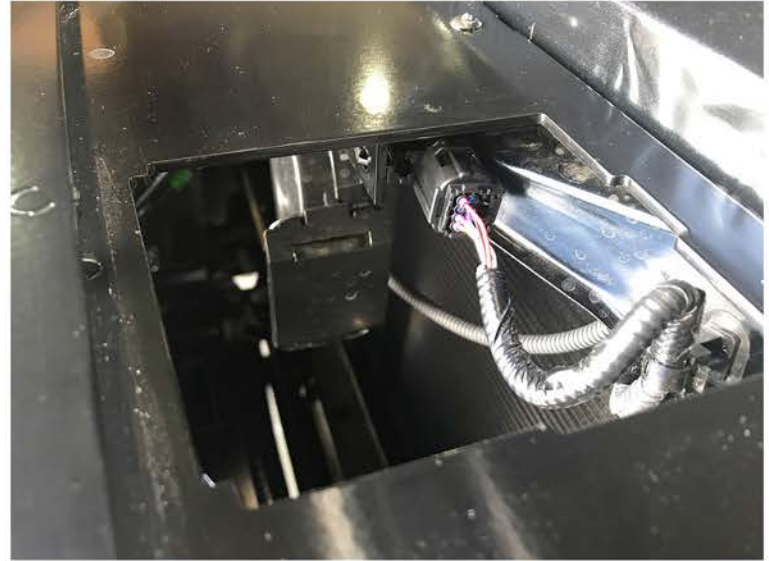
7. Install complete assembly to mounting studs with spacers in place. Use (4) #10 lock nuts and Torque to 30 in-lbs. Note orientation of TOP side of module. Connect harness to module, press harness cable mounts into position as shown.



8. Press harness cable mounts into bracket as shown.



9. Install OEM front logo as shown. Do not force logo into the logo mounting plate. Insert the lower tabs first, then the upper tabs.



10. Install grille to vehicle. Connect TSS harness.



11. Replace access cover (Trunda Only)



12. Reconnect negative battery terminal.



# T-REX

## GRILLES



## BILLET MAIN GRILLE

### PART #20950/20950B

### 2018 TOYOTA TACOMA

### PARTS INCLUDED

- (1) Billet Grille
- Polished - Part #20950
- Black - Part #20950B

### HARDWARE INCLUDED

- (6) #8 0.75" Screws
- (10) #10 Flat Washers
- (3) #8 Flat Nuts
- (4) #10-32 X5/8" Button Head
- (4) #10 Nylon Lock Nuts



### TOOLS REQUIRED

- Drill
- 1/8" Drill Bit
- Screwdriver set (Phillips)
- Needle Nose Pliers
- Socket Set
- Ratchet Tool
- 1/2" Plastic Spatula

### GRILLE REMOVAL & GRILLE INSTALLATION GUIDE

#### START HERE

PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLATION. Auto makers offer varied models to each vehicle and occasionally manufacture more than one body style of the same model.

\* APPLICATION MODELS VARY. WE RECOMMEND TO VERIFY FITMENT BEFORE BEGINNING INSTALLATION PROCESS.  
\* IMAGES FEATURED IN THE INSTRUCTION DOCUMENTS MAY NOT ALWAYS EXACTLY MATCH YOUR GRILL.

#### STEP 1 FRONT BUMPER REMOVAL

- 1) Turn off engine and chalk tires with stop block. Open Hood.

#### PRO TIP:

Before you begin, use "3M Painters Tape" to apply a protective guard around the work areas. Attend to the fender and bumper valance. This will help protect the paint and finish of your vehicle.



FIG 1

#### STEP 2

- 2) With the hood open, near the main head lamps, identify and remove (2) plastic push pins. (Fig 2)



FIG 2

# BILLET MAIN GRILLE

## MAIN GRILLE - #20942 / #20942B 2016 TOYOTA TACOMA

### GRILLE REMOVAL - CONTINUED



FIG 3

#### STEP 3

SEE FIGURE 4

3) Identify and remove (2) 10mm bolts. (Fig 2-3)



FIG 4



FIG 5

#### STEP 6

SEE FIGURE 5

6) Using both hands firmly grasp the grille and with a firm tug on both sides will release clips at bottom of grill. The Grille should now be free to pull away from truck.

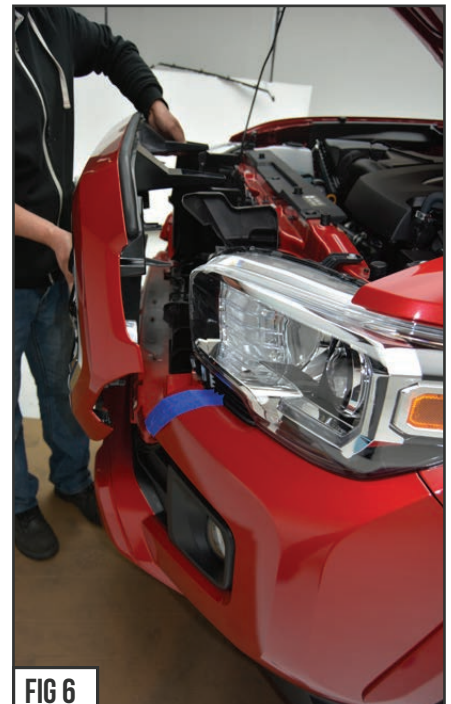


FIG 6

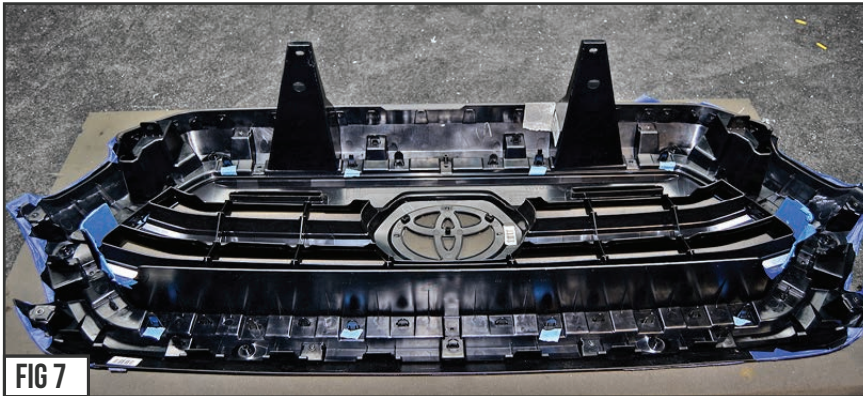
### GRILLE SHELL REMOVAL PROCESS CONTINUED



# BILLET MAIN GRILLE

## GRILLE DISASSEMBLY - START

## MAIN GRILLE - #20942 / #20942B 2016 TOYOTA TACOMA



### STEP 7

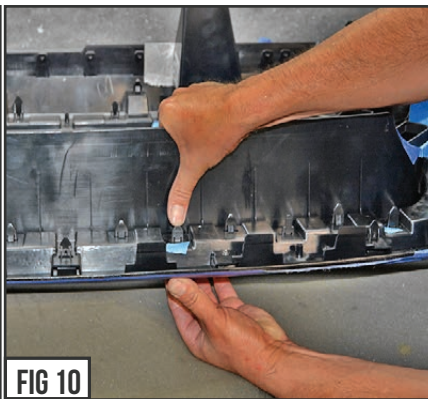
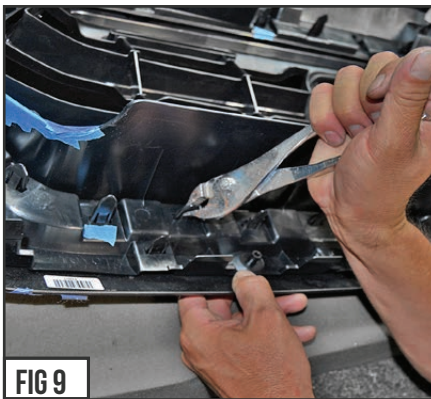
### SEE FIGURE 7

7) Flip the grille assembly over and place on a flat cushioned surface or foam pad to begin disassembly.

### STEP 8

### SEE FIGURE 8

8) Use Phillips head screwdriver to remove (9) #8 screws located around the grille assembly perimeter that secures the inner shell to outer shell.



### STEP 9

### SEE FIGURES 9 - 11

9) At this point you to remove the the inner shell liner that holds and secures the main factory grille in the grille assembly.

## INNER GRILLE SHELL LIP REMOVED



### STEP 10

### SEE FIGURE 9

10) Using a pair of broad nose pliers and press the grille locking tabs so that you will release the inner shell lip guard.

### STEPS 11

### SEE FIGURES 10

11) You may need to manually press the tabs to completely free the inner shell.



## GRILLE SHELL DISASSEMBLY PROCESS CONTINUED

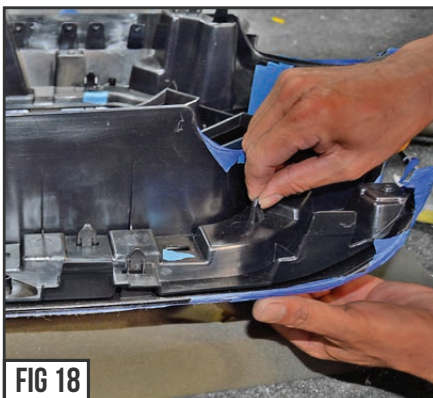
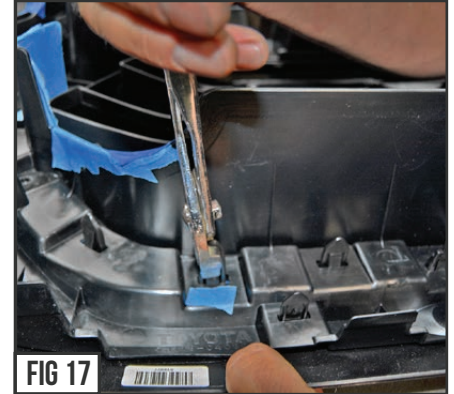


# BILLET MAIN GRILLE

## MAIN GRILLE - #20942 / #20942B

### 2016 TOYOTA TACOMA

#### GRILLE DISASSEMBLY - CONTINUED



#### STEP 12

SEE FIGURES 15-20

12) At this point you will need to remove the main factory grille from the complete grille assembly. Using the same technique as before, pinch the tabs and manually press them through the pre-arranged hole.

#### MAIN GRILLE REMOVAL & SEPARATION

#### STEP 13

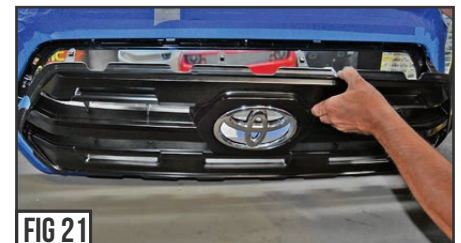
SEE FIGURE 21 - 24

13) The Main grille should now be free from the grille assembly and can be pulled forward and set aside.

#### STEP 14

SEE FIGURES 24

14) Turn and rest the grille assembly on its back side. At this point, put back into place the inner shell lip and press the tabs back down around the grille assembly perimeter so that the inner shell is locked back down and installed.





# BILLET MAIN GRILLE

## MAIN GRILLE - #20942 / #20942B 2016 TOYOTA TACOMA

### GRILLE INSTALL - START

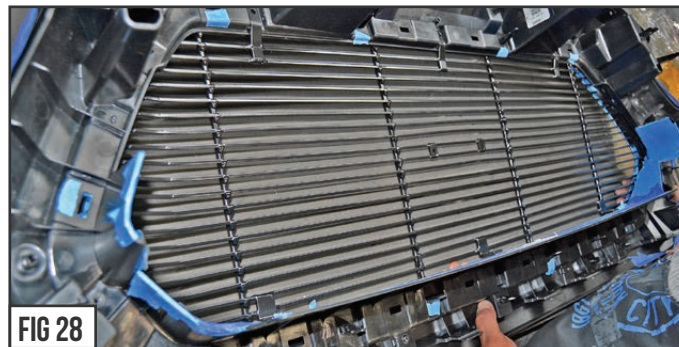


#### STEP 15 MAIN GRILLE - INSTALLATION SEE FIGURE 25

15) Take your new T-Rex Replacement Grille Insert and place, face down, on the soft cushioned foam pad.

#### STEP 16 SEE FIGURES 25 - 26

16) Take your grille shell assembly and place over and down on the T-Rex Replacement Grille.



#### STEP 17 SEE FIGURES 27-29

17) The T-Rex Replacement Grille is now ready to be secured and fastened to factory grille shell assembly.



#### STEPS 18 - 20 SEE FIGURES 30-32

17) Secure the grille by first inserting a screw into the top middle tab bracket and tighten down loosely. Inspect and align all gaps between grille and grille shell.

18) Once satisfied with fitment grab drill into the shell where the tabs prompt a mounting point.

19) Insert and tighten screws in new and predefined mounting points.

# BILLET MAIN GRILLE

MAIN GRILLE - #20942 / #20942B  
2016 TOYOTA TACOMA

## LOGO BADGE INSTALL - START



### STEPS 20 - 22

SEE FIGURES 38-39

- 20) Check over your work for hardware tightness and visual inspection.
- 21) Re-install the grille assembly in the reverse order that it was removed from the vehicle.
- 22) At this point you want to look over your work and examine the gap alignments around all edges and in between the new T-REX Grille and the vehicle components and body lines. Carefully close the hood for a complete visual inspection. If adjustment is needed, you can loosen the hardware mounts and shift side to side or up & down to achieve proper look.







## LED LIGHTING EQUIPMENT INSTALLATION / DISCLAIMER

### WARNING

PLEASE CONSULT YOUR LOCAL AUTOMOTIVE ELECTRICAL PROFESSIONAL FOR INSTALLATION SERVICES AND ADVICE. T-REX IS ONLY EQUIPPED TO PROVIDE BASIC TECHNICAL ASSISTANCE DUE TO THE DIVERSITY OF VEHICLES, VEHICLE OPTIONS & MODIFICATIONS AND LIGHTING CONFIGURATION OPTIONS AVAILABLE. T-REX Truck Products cannot be held liable due to improper component installation and / or faulty wiring.

### GENERAL GUIDELINES

LED Lights & LED Light Bars operate at relatively high currents and should only be installed by qualified personnel with experience in switched / relayed high draw DC Circuits.

- Light Bars are designed for use only with standard 12v DC power systems
- Light Bars are for OFF-ROAD USE ONLY. Check your local laws & regulations regarding vehicle mounted lights.
- Some Light Bars are equipped with waterproof connectors while others are simply pig-tailed
- Red Wires = POSITIVE | Black Wires = NEGATIVE
- ALWAYS install your lights on a fused circuit. Basic fusing guidelines: maximum 5A for every 10" of LED Light Bar.

### GENERAL USE, INSTALL AND ADJUSTMENT TIPS

NOTE 1: T-Rex Torch Series Grilles (with LED Light Bars installed), and LED Light Bars themselves are for OFF-ROAD USE ONLY.

NOTE 2: Light Bars in Torch Series Grilles are installed flush with the grille from the factory. This may or may not be the ideal angle for each light depending on the configuration of your vehicle and its options and/or modifications. To adjust the angle of your light bars simply loosen the mounting hardware on either side of each Light Bar, rotate the Light Bar to adjust the angle, then tighten the hardware once the desired angle is achieved (please be careful not to over-tighten the mounting hardware or scratch the protective powder-coat finish). It is best to adjust the angle with the vehicle on level ground with the lights facing a wall, garage door or other solid barrier at a distance of approximately 25-30 feet.

NOTE 3: Please consult a qualified automotive electrical professional for light bar wiring installation.

NOTE 4: An optional universal wiring harness (part# 639HAR1) is also available that includes high-heat & oil/fuel resistant wires, waterproof connector, 12v relay, 12v rocker switch, inline fuse holder. Our universal wiring harness significantly expedites the installation process but is not a vehicles specific "Plug & Play" product and does not eliminate the need for a professional installation.

## GRILLE CARE INFORMATION

### GRILLE CARE INFORMATION

T-REX grilles are finest in the industry but do require normal care. Wash regularly as you would when caring for your vehicles. Never use dish soap.

### POLISHED FINISH

T-REX polished grilles should be waxed at the same time that you wax the vehicle and can be cleaned with soap and water. A polished finish can be cared for in the same fashion that would care for your vehicles factory chrome. Never leave wet water spots as that may leave a blemish.

### MATTE BLACK FINISH

Paint warranty applies to defects in material and / or workmanship, it does not cover the matte finish surface appearance.

To enjoy the matte appearance for many years to come, please follow these owner care and maintenance tips.

Get a no-shine matte car wash soap that uses no fillers, no silicone, and won't strip your matte paint of its layer of protection.

Do not use wax, detail spray, armorall®, or any products made for normal paint. Use only products specifically developed for matte finish paint. Do not use products that are even mildly abrasive, such as polishes, glazes, or rubbing compounds. Do not use mechanical cleaners or polishers. Do not use terrycloth, cloth, or paper towels. Do not rub the finish vigorously, this will burnish the paint finish, causing a permanent shiny spot. Shiny spots cannot be removed.

Do not use commercial car wash facilities or their shine enhancement products. Most car wash brushes, large mechanized "towels," and shine enhancement products can damage matte paint.

Remove foreign substances such as insect remains, tar, and road debris using a soft applicator and a mild solvent; saturate and soak area before cleaning—rub lightly.

Hand-wash with a soft wash mitt and mild cleaning product safe for matte paint. Use microfiber cleaning cloths with alcohol-based window cleaner for basic surface clean-up.

### GLOSS BLACK FINISH

T-Rex Grilles with Gloss Black Powder Coated Finish may be washed regularly as you would when caring for your vehicles finish using soap and water. T-REX grilles should be waxed at the same time that you wax the vehicle. As a general rule, anything you use to clean your vehicles painted surfaces can be used to clean and maintain your T-REX grille. A Gloss powder Coated Finish can be cared for in the same fashion that you would care for your vehicles factory paint job. Never leave wet water spots as that may leave a blemish.

Rely on premium car and truck custom grilles by T-Rex if you're looking for quality and efficiency.