

T-REX

GRILLES



REVOLVER SERIES GRILLE

MAIN GRILLE W/O CAMERA PROVISION - #65 1566 1

2017 FORD RAPTOR

PARTS INCLUDED

- Part #6515661
- (1) - Revolver Grille - Main w/ (4) 6" LED Light Bars
 - (1) - Main Grille Lower Mounting Bracket
 - (4) - Aluminum Trim Pieces
 - (1) - Aluminum Revolver Logo Backing Plate
 - (2) - Y Adapters
 - (1) - Double Terminal Power Cable Wiring Harness

HARDWARE INCLUDED

- (16) - 10-32 x 5/6" Button Head Allen Cap Screws
- (2) - 10-32 x 1/2" Black Button Head Allen Cap Screws
- (2) - 10-32 Nylon Nuts
- (2) - #10 Flat Stainless Steel Washers
- (4) - Trim Panel Retainer Clips
- (6) - 1/4" Flat Washers
- (6) - 1/4-20 x 3/4" Hex Screws
- (6) - #6-32 Nylon Nuts
- (18) - 10-32 Flange Nuts
- (4) - Black Cable Claps 5/16"
- (8) - 1/4" Nylon Lock Nuts
- (8) - 1/4" Black Flat Washers
- (8) - LED Brackets #3

TOOLS REQUIRED

- Screwdriver set (Flat Head)
- Torx Driver
- 10mm, 8mm, 7mm Sockets
- Ratchet Tool
- 1/2" Plastic Spatula
- Pocket Knife

GRILLE REMOVAL & GRILLE INSTALLATION

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.

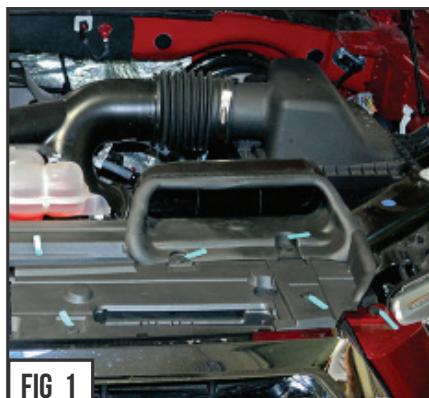


FIG 1



FIG 2

STEP 2

SEE FIGURE 1 & 2

- 2) Identify & locate (10) plastic clips on top of plastic shroud and also (1) additional on each side located at the top of the headlight body panel cover. Carefully pry off to remove and then set aside for reinstallation later.

STEP 3

- 3) Remove plastic shroud and then set aside for reinstallation later.



FIG 3

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GRILLE REMOVAL - CONTINUED



FIG 4



FIG 5



FIG 6



FIG 7

STEP 4

SEE FIGURES 4 & 5

4) Pop loose and separate the Raptor's wheel well trim piece from the front fenders. The headlight plastic body panel needs to be removed. You will need to coax faring panel out and off any tabs / trim panel retainer clips.

STEP 5

SEE FIGURE 7

5) On each side of the factory grille near the bottom corner, just outside and behind, there is (1) 8mm bolt. (1) 8mm bolt on each side. Use 8mm socket to remove the (2) bolts.



FIG 8



FIG 9

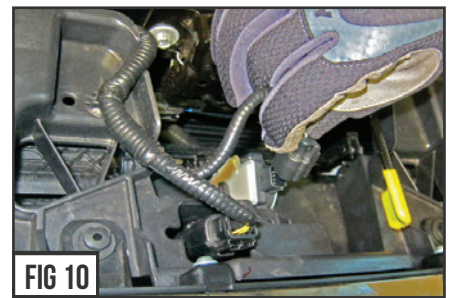


FIG 10

STEPS 6 & 7

SEE FIGURES 8 & 9

6) On top of the core support, remove any bolts or screws holding grille component to core support.
7) Remove (4) plastic clips on upper corner near head lamp.

STEPS 8 & 9

SEE FIGURE 10

8) Located next to the hood latch, disconnect (2) sensors located at the top center of grille. Note to pull the plastic cable support clip.
9) The OEM Factory Grille should now be free and ready to remove. Carefully place the grille on a soft cushioned surface and prepare to remove the shutter component which is currently fastened to the backside of the factory grille.

STEPS 10-12

SEE FIGURES 11 - 13

10) Remove the (7) 10mm plastic bolts that line the outside edge and the (1) 8mm bolt that is secures the center structure.
11) Remove the (4) plastic clips located on the top lip.
12) Set factory grille aside and prepare to install your new T-REX REVOLVER Grille.

GRILLE REMOVED



FIG 11



FIG 12



FIG 13

GRILLE REMOVAL PROCESS COMPLETE

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GRILLE ASSEMBLY - START



FIG 14



FIG 15



FIG 16

STEP 13

SEE FIGURES 14 & 15

13) The T-REX REVOLVER Grille is designed to use the Raptor Vehicle's (3) Amber Running Lights. Position the REVOLVER Grille to accept factory wiring loom.



STEP 14

SEE FIGURE 16

14) Put into place the each Amber Light and tighten down with the supplied 10-32 Flange Nuts.

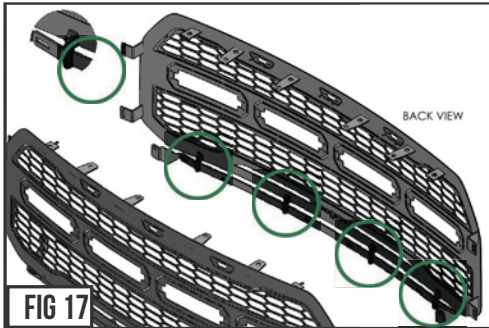


FIG 17

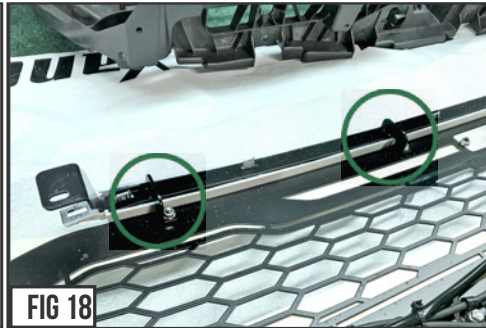


FIG 18



FIG 19

STEPS 15 & 16

SEE FIGURES 17 - 19

15) Put into place the supplied Main Grille Lower Mounting Bracket and tighten down using the provided 10-32 Flange Nuts.

16) Next, install the Raptor's OEM lower trim body panel over and onto the Lower Mounting Bracket using the existing OEM Retainer Clips.

STEPS 17

SEE FIGURE 20

17) Put into place and position the OEM Active Shutter Component centered over the new T-REX REVOLVER Grille. It will only mount one way.

STEPS 18-19

SEE FIGURES 20 - 22

18) Align all brackets with mounting points.

19) Use the supplied hardware to secure Active Shutter Component to new REVOLVER Grille.

Look over your work and inspect that you have not missed any bolts and everything is looking solid and straight as it would with the OEM Grille. Prepare to install your new T-REX Grille.

GRILLE ASSEMBLY CONTINUED



FIG 20



FIG 21



FIG 22

GRILLE ASSEMBLY CONTINUED

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GRILLE INSTALL START

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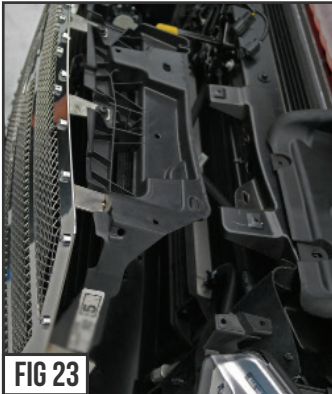


FIG 23



FIG 24



FIG 25

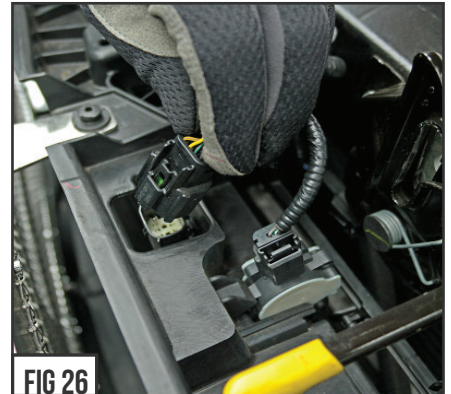


FIG 26

STEP 20

SEE FIGURES 23 - 25

20) Grille assembly is now ready to reinstall on vehicle. Match it up to factory mounting points and reinstall in the reverse order that the grille was removed. Start with the (4) 10mm factory bolts on top and the (2) 8mm bolts located near the bottom corners.



STEP 21

SEE FIGURE 26

21) Plug the (2) sensor connections back into the shutter component sensor units.

BODY PANEL HEADLIGHT FARING INSTALL



FIG 27

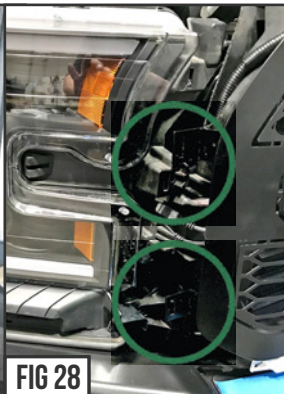


FIG 28



FIG 29



FIG 30

STEP 22

SEE FIGURE 27 & 28

22) Using the (4) provided Trim Panel Retainer Clips, insert and install them onto the backside of headlight faring body panel as seen in Figure #27. There are two on each side.

Carefully put back into place the headlight plastic body panel around the head lamp area making sure to align with all the fasteners and then firmly press into place. Secure the panels to fender, and wheel well trim piece to fender on the inside wheel well lip

STEP 23

SEE FIGURES 29

23) Insert an additional 1/4" Bolt, Nut, & Washer to the very top of the Headlight Faring Body Panel as seen in Figure #29. Check body panel alignment around headlight and then tighten down till secure.

STEP 24

SEE FIGURE 30

24) Place plastic radiator shroud cover over core support making sure the cold air intake lip is overlapped on top of the shroud. Align the factory mounting holes and use the (10) plastic clips to secure and fasten in position.

INSPECT FOR ALIGNMENT

STEP 25

SEE FIGURES 31

25) 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 top mounts and shift side to side for even gaps.



FIG 31

INSTALLATION COMPLETE



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Depending on your style and your preferred look of the vehicle, you have the option to install the Raw Aluminum Trim Piece, Color Match, or just opt to leave off.

1. Install the supplied trim with hardware. If your installation has ZROADZ LED lights start on one side of each of the (4) openings. Install the trim on the front and the bracket on the back of the grille as shown.

2. If your installation has ZROADZ LED lights use the supplied wire clip on (1) each of the lower side mounting screws as shown to retain the cable.



3. Check and secure all hardware. Repeat for remaining light openings.

4. Use the supplied black hardware to install the logo back plate.



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 vehicle 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.