

# T-REX

## GRILLES



## BILLET MAIN GRILLE

MAIN GRILLE - #20785 / #20785B

2016 NISSAN TITAN

### PARTS INCLUDED

- (1) Billet Grille - Main Polished - Part #20785 OR Black - Part #20785B

### HARDWARE INCLUDED

- (1) Logo Mount Backing Plate
- (1) Logo Mount w/ Camera Backing Plate
- (2) Retainer Strips
- (2) Retainer Strips
- (12) #8 x 3/4" (Black) Screws
- (8) #8 U-Nut / Speed Nuts
- (4) #8 Flat Nuts
- (6) #6-32 Flange Nuts

### TOOLS REQUIRED

- Drill & Drill Bit Set
- Screwdriver set (Flat Head)
- Socket Set
- Ratchet Tool
- 1/2" Plastic Spatula
- Flash Light

### 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

- 1) Turn off engine and chalk tires. Open Hood. Disconnect Battery

#### 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.

#### STEP 2

SEE FIGURES 1 & 2

- 2) The grille will need to come off and be fully disassembled.

It will be removed as one piece as seen in Figure #2.



FIG 1



FIG 2

# BILLET MAIN GRILLE

MAIN GRILLE - #20785 / #20785B

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## GRILLE REMOVAL - CONTINUED



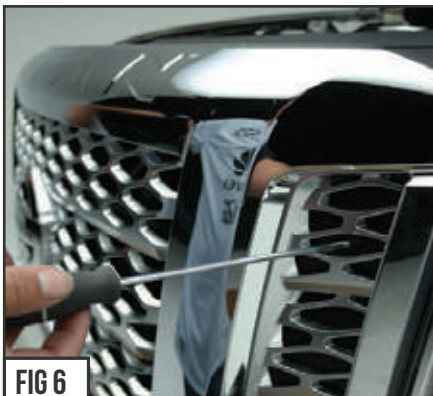
### STEP 3

SEE FIGURES 3 - 5

3) Begin by slipping off the top plastic shroud away and free from the tab fasteners.

### STEP 4

4) Be careful as all panels and clips may be fragile. Use finesse rather than force.



### STEP 5

SEE FIGURES 6 - 8

5) Identify and remove the screws that secure the OEM Factor Grille Structure to the front of the vehicle.

### STEP 6

SEE FIGURES 9 - 14

6) With the Grille Structure somewhat loose, you will need to identify and pull free a number of tab fastener retaining clips that hold the bottom of the Grille Structure in place.

### STEP 7

7) Check for any sensors, plugs, or wires that may be still connected depending on your vehicle model. The headlight plastic body panel should now loose. You may need to coax the Grille Shell off the catch tabs to remove completely.

## FREE UP TAB FASTENERS



GRILLE REMOVAL PROCESS COMPLETE



# BILLET MAIN GRILLE

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## GRILLE DISASSEMBLY - START



FIG 12



FIG 13



FIG 14

### STEP 8

SEE FIGURE 12 - 13

8) The Grille Structure should now be totally free from all mounts and fasteners.



### STEP 9

SEE FIGURES 12 - 14

9) With a firm grasp pop the Grille Shell off and remove from the nose of the vehicle.



FIG 15



FIG 16

### STEPS 10 - 11

SEE FIGURES 15 - 16

10) Set Factory Grille aside and place it face down on a flat cushioned surface.

11) It is now time to disassemble the Grille from the Grille Shell.

SEE FIGURES 17 - 20

## REMOVE INNER GRILLE FRAME



FIG 17



FIG 18



FIG 19



FIG 20

### STEP 12

SEE FIGURES 17 - 20

12) Identify the inner Grille Shell Skeleton Frame. Remove all the screws and set aside.

## CONTINUE GRILLE DISASSEMBLY



# BILLET MAIN GRILLE

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## GRILLE DISASSEMBLY - CONTINUED



FIG 21

### STEP 13

SEE FIGURES 21 - 26

13) It is now time to remove the top plastic cover shroud.

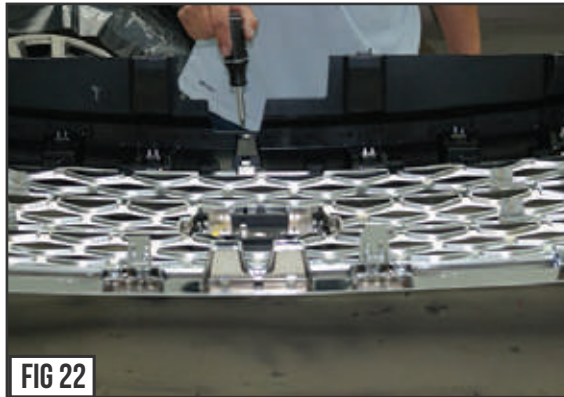


FIG 22

### STEP 14

SEE FIGURES 21 - 26

14) There are multiple screws and also small tabs that secure the Plastic Shroud to the Grille Shell Structure. As seen in Figures # 24 & #25, carefully pop free the tabs and set aside the Plastic Shroud to be re-installed later.



FIG 23



FIG 24



FIG 25

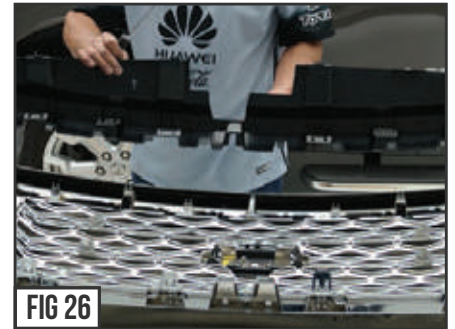


FIG 26

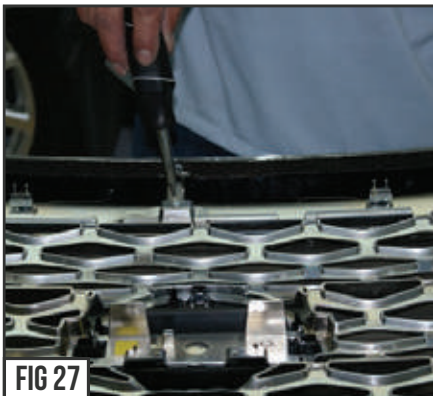


FIG 27

### STEP 15

SEE FIGURES 27 - 29

15) At this point, you will begin the steps to separate the Factory Grille Insert from the OEM Grille Shell.



FIG 28

### STEP 16

SEE FIGURES 28 - 29

16) Identify and remove the screws that secure and fasten the Grille Insert to the Shell.



FIG 29

CONTINUE GRILLE DISASSEMBLY

# BILLET MAIN GRILLE

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## GRILLE DISASSEMBLY - CONTINUED



FIG 30

### STEP 17

SEE FIGURES 30 - 31

17) Identify the tabs that clip into the Grille Shell Frame.



FIG 31

### STEP 18

BUMPER FRONT FASCIA - GRILLE INSTALLATION

SEE FIGURE 32

18) Once the tabs are popped free, the Grille should now be free to be removed from the Grille Shell. Set aside Grille Insert and continue disassembling the Grille Shell.



FIG 32



FIG 33



FIG 34



FIG 35



FIG 36

### STEP 19

BUMPER FRONT FASCIA - GRILLE INSTALLATION

SEE FIGURES 33 - 35

19) Turn to the OEM Factory Grille Shell Side opening's Rear Covers. Remove the Screws and pop the Tabs Free.

The Grille Shell should now be completely stripped down.

SEE FIGURE 36

## REMOVE OEM LOGO BADGE

### STEP 20

SEE FIGURES 37 - 38

20) Your new T-REX Grille requires use of the Factory Logo Badge. Turn back to the removed Grille Insert and begin removing the Logo Badge.



FIG 37



FIG 38

CONTINUE GRILLE DISASSEMBLY



# BILLET MAIN GRILLE

## MAIN GRILLE - #20785 / #20785B

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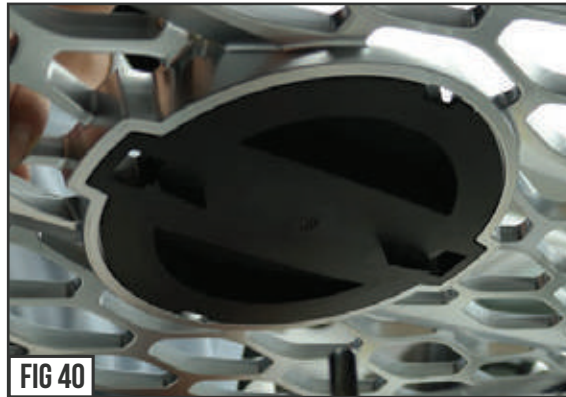
#### BADGE INSTALL - START



#### STEP 21

SEE FIGURE 39

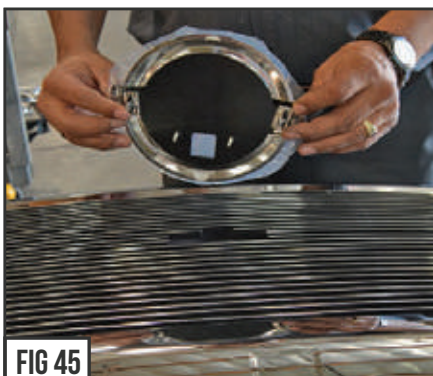
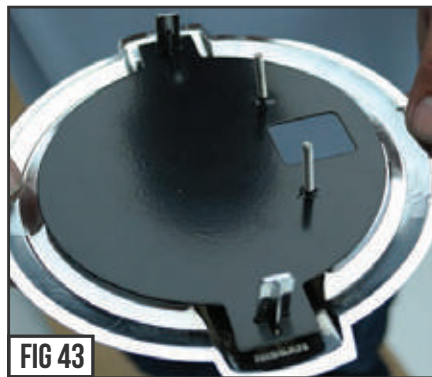
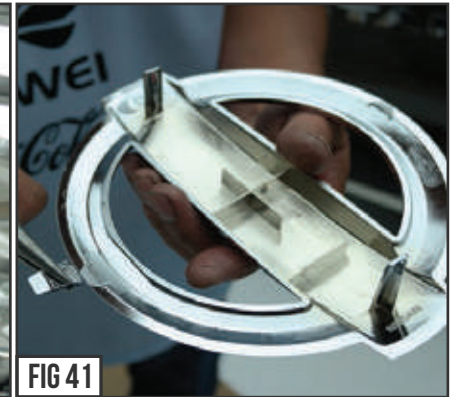
21) Using a broad flat head screw driver, Pop the lower tab clip from the Grille Pattern.



#### STEP 22

SEE FIGURES 40 - 41

22) From the front side, pull the OEM Logo Badge from the Logo Badge Mount while pushing the tabs through from the backside.



#### STEP 23

LOGO BADGE - BACKING PLATE

SEE FIGURES 42 - 43

23) Determine if your vehicle model is equipped with a Forward Facing Camera. If your vehicle model is equipped, then you will select the provided T-REX Logo Badge Backing Plate that features the camera lens cutout (as seen in Figures #42 & #43).

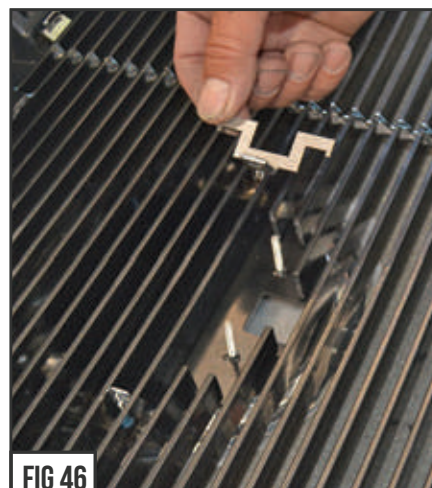
If your vehicle model is not equipped with a forward facing camera, then you will select the provided T-REX Logo Badge Backing Plate without the camera lens cutout.

#### STEP 24

SEE FIGURES 44 - 47

24) Mount the Factory Logo Badge to the provided Backing Plate with the Trim Panel Retainer Clip.

Place the Factory Logo Badge onto the face of the new T-REX Grille Insert. From the backside place the provided T-REX Backing Plate Bracket Mounts and secure it into position with the provided hardware.





# BILLET MAIN GRILLE

## MAIN GRILLE - #20785 / #20785B

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#### GRILLE ASSEMBLY - START



FIG 48



FIG 49

#### STEP 25

25) It is now time to put back into place the the factory grille top cover shroud. Carefully position it square and center with the OEM Grille Shell Frame and press it back into place.

#### STEP 26

#### CUT OFF TABS

SEE FIGURE 48 & 49

26) Identify and trim off the 4 tabs from the factory top cover shroud as seen in Figure #29.



FIG 50



FIG 51



FIG 52



FIG 53

#### STEP 27

SEE FIGURES 50 - 53

27) Where you have trimmed down the plastic tabs, use the U-Nuts as a gauge to measure approximately where to drill. Use a 1/8" Drill Bit and drill a hole through the Plastic Shroud but do not drill deeper as to not penetrate the OEM Grille Shell.

Insert the (4) U-Nuts into place, so that the mounting holes correspond with the new drill hole.

#### GRILLE INSERT INSTALL - START

#### STEP 28

SEE FIGURES 54 - 55

28) It is now time to put into place the new T-REX Insert. Carefully position it square and center with the OEM Grille Shell Frame.



FIG 54



FIG 55

#### GRILLE ASSEMBLY - CONTINUED

# BILLET MAIN GRILLE

## MAIN GRILLE - #20785 / #20785B

### 2016 NISSAN TITAN

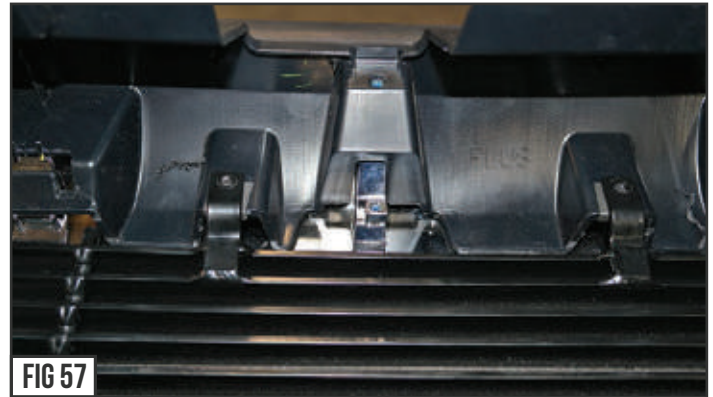
#### GRILLE ASSEMBLY - START



STEP 29

SEE FIGURE 56

29) Fit and align the T-REX Grille Mounting Brackets so that they will naturally fit the contour of the top plastic shroud.



STEP 30

ALIGN THE T-REX GRILLE FRAME CUTOUT TABS

SEE FIGURE 57

30) Align the Factory Grille Shell mounts so that they accept and line up with the T-REX Grille Frame's Cutout Tabs and mounts as seen in Figure #57.



STEP 31

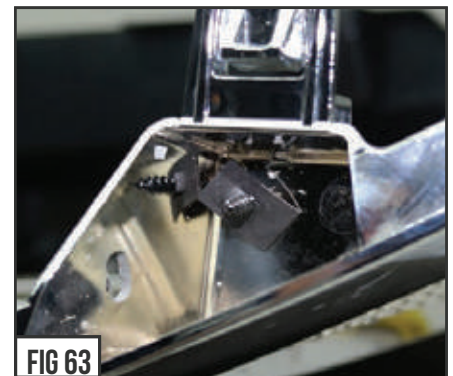
SEE FIGURES 57 - 60

31) With the T-REX Grille properly aligned, put into place the provided screws where the pre-determined mounting tabs locate to the OEM Grille Shell. Fix the screws and tighten them down against the installed U-Nuts.

STEP 32

SEE FIGURES 61 - 63

32) Turn to the bottom mounts and secure the grille into place where the T-REX Grille's locate the pre-determined bracket mounts.



#### GRILLE ASSEMBLY - CONTINUED



# BILLET MAIN GRILLE

## MAIN GRILLE - #20785 / #20785B

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#### GRILLE ASSEMBLY - CONTINUED



FIG 64

#### STEP 33

SEE FIGURES 64

33) Check your work and inspect for proper gap alignment between T-REX Grille and Factory Grille Shell.



FIG 65

#### STEP 34

CHECK FOR PROPER ALIGNMENT

SEE FIGURES 65

34) Once you are satisfied with the overall look and fitment, go ahead and tighten all hardware and bracket mounts so that the T-REX Grille is fully secured into the Grille Shell.



FIG 66



FIG 67



FIG 68



FIG 69

#### STEPS 35 - 36

MOUNT THE SIDE OPENING GRILLES

SEE FIGURES 66 - 69

35) Put into place the provided T-REX Grille Side unit. Make sure the Driver Side and Passenger Side Grille Shell Openings are fitted with proper T-REX Side Grilles for each corresponding side.  
36) Mark where the Mounting Brackets rest against the shell body. Use a 1/8" Drill Bit and drill a hole through the Plastic Shroud but do not drill deeper as to not penetrate the OEM Grille Shell Face.

#### STEP 37

SEE FIGURE 62 - 63

37) Put into place the U-Nut as seen in Figure #71.



FIG 70



FIG 71

#### GRILLE ASSEMBLY - CONTINUED

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## GRILLE ASSEMBLY - CONTINUED



STEP 38

SEE FIGURE 72

38) Repeat on opposite side.

**STEP 39** SEE FIGURES 73 - 74

39) Lay the Grille into place. Use the Pre-Determined Mounting Brackets to locate the Drill points.

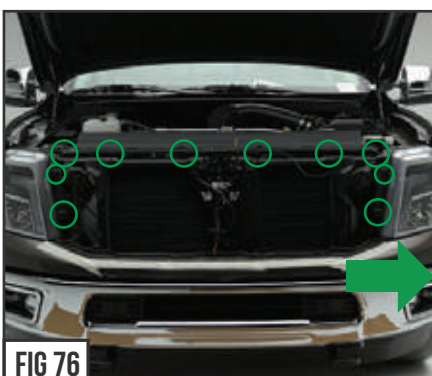


**STEP 40** SEE FIGURES 73 - 75

40) Secure the Bracket into position by slipping a screw into position and tighten down with against the installed U-Nuts on the backside.

**CHECK YOUR WORK FOR CONGRUENT APPEARANCE**

## REMOVE CLIPS FROM FRONT OF VEHICLE



**STEP 41** SEE FIGURES 76 - 78

41) Before you begin mounting the Grille to the nose of the vehicle, you will need to turn back to the front of the truck and remove the plastic clips fixed along the sides of the grille opening. There are (10) total, (6) on the top, and (2) on the each side.

Carefully remove them without damaging the clips.



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## GRILLE ASSEMBLY - CONTINUED



FIG 79



FIG 80



FIG 81

### STEP 42

SEE FIGURES 79 - 80

42) It is now time to re-install the side pocket shrouds. Put them into place and using the removed hardware secure the plastic shrouds into place fix the mounting tabs back into position.



FIG 82



FIG 83

### STEP 43

SEE FIGURES 82 - 84

43) Use the (8) Plastic Clips that were removed from the nose of the truck. Insert each Plastic Clip onto the assembled Grille Shell mounting points. They will be put into place, (6) across the top, and (2) on each side.

Inspect the new T-REX Grille alignment with the Grille Shell. Check for proper gaps and alignment along all edges.

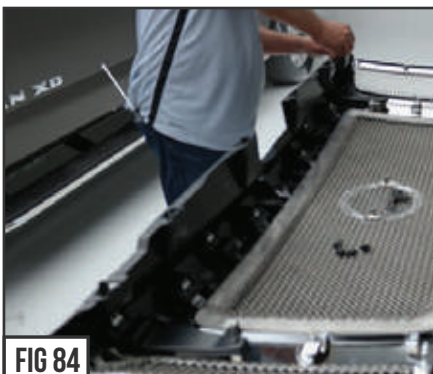


FIG 84

## GRILLE INSTALL START



FIG 85



FIG 86



FIG 87

### STEP 44

SEE FIGURES 85 - 87

44) It is now time to mount the fully assembled Grille and align the mounting points to be received onto the nose of the front of the vehicle. Starting out the bottom first and using the reverse order of Grille Removal, carefully put back into place around the head lamp area making sure to align with tab fasteners and then firmly press into place. Plug any sensor connections and wiring looms that were disconnected. Place plastic radiator shroud cover over core support and fix Tabs into position.

# BILLET MAIN GRILLE

MAIN GRILLE - #20785 / #20785B

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## INSPECT YOUR WORK



FIG 88



FIG 89



FIG 90

\*THIS GRILLE IS MADE BY T-REX TRUCK PRODUCTS, INC. / T-REX GRILLES, AND IS DESIGNED TO ACCEPT "GRILLE BADGING". THE DE LOGO SHOWN ON THIS IMAGE IS MERELY TO ILLUSTRATE THIS FEATURE.

### STEP 45

SEE FIGURES 88 - 90

45) 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 remove grille and shift side to side or up & down to achieve proper look.

INSTALLATION COMPLETE





## 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.