

STUFF YOU'LL NEED

10mm Socket

Large Blankets or Towels

Phillips screwdriver

Plastic pry tool

Socket Extension

Wire Crimpers

LET'S GO! YOU CAN DO THIS.

1. Safely disconnect the negative battery terminal.

2. Remove the front bumper assembly.

1. Open Hood
2. Disconnect all the OEM plastic wire harness connectors from upper driver and passenger side on the inside of the grille. Use plastic Pry tool to remove circular push connectors near wire connectors.
3. Remove 4x 10mm hex bolts from top of grille assembly.
4. Remove 4x 10mm hex bolts from the under side of the grille assembly.
5. Remove 4x hex bolts from both the front passenger and driver fender flares. It may be helpful to turn the front of the wheel inward away from the bolt heads for easier access.
6. Remove 4x 10mm hex bolts from the front-facing side of the grille.
7. Very carefully (resist unnecessary force) remove the front grille assembly pulling away from the truck on the grille. If there is resistance, check all bolts have been safely removed and that the tabs under the fender flares are not stuck. Those tabs may need a plastic pry tool.
8. Safely place the bumper assembly face-down on a very large area with soft blankets, towels, or similar to prevent cosmetic damage to the painted areas of the grille.

3. Prepare the Grille Insert for Swap

1. Unplug wire harness for active grille shutter.
2. Remove 6x 10mm bolts from active grille shutter (3 on top, 3 on bottom) Lift the shutter off and place in a safe place.
3. Unplug wire connector from TSS (safety sensor at the bottom of the grille insert).
4. Remove 16x Phillips screws connecting grille insert to grille surround. Do not remove Phillips screws connecting bumper to grille surround.
5. Remove plastic tabs all the way around the with a plastic pry tool.
6. Remove grille insert from grille surround.
7. Remove TSS sensor from existing grille insert by removing 3 Phillips screws. Remove the 2 disc tab nuts and re-install TSS sensor on the new heritage grille insert.
8. Install included letter insert using provided screws.

4. Replace grille insert with heritage / pro grille insert.

1. Place the new grille insert inside the grille surround. Slide tabs back into tab mounts.
2. Re-install 16 phillip-head screws.
3. Plug in the TSS sensor to the wire harness.
4. For trucks with a front-facing camera, install camera into the new grille. For non-TRD off-road trucks, use our 3D-printed camera bracket.
5. Install light bar onto the grille using provided screws.
6. Re-install grille shutter onto grille. If needed, add aluminum or nylon spacers to set the grille shutter back behind the light bar.

5. Re-install bumper assembly.

1. Place the bumper assembly back onto the truck, ensuring all tabs and mounting locations are snug and accurately placed. Give gentle knocks where necessary to click-in.
2. Re-install all 20x 10mm bolts, all plastic push tabs, and all electrical connectors from step 2.

6. Wire-up the marker lights and light bar.

1. Use the provided add-a-fuse to crimp onto the red wire coming from the wire connector harness, and to tap into a 12v, engine ignition-activated, and unused circuit. Most Tundra owners use the fuse circuit on the passenger side fuse box, just above 5A ENG-IGR NO.1 Remove 6x 10mm bolts from active grille shutter (3 on top, 3 on bottom) Lift the shutter off and place in a safe place. This will automatically turn your marker lights on while the ignition is running.
2. Use the wire from the back of the light bar to connect to the included dash switch, a 3rd party light bar harness kit, 5-way relay, auxiliary switch kit (such as switch pro, auxbeam, or similar) Follow wire diagram from our light bar listing on our website, or follow instructions from 3rd party switch / relay provider.

7. Troubleshooting

1. If you run into a problem while installing, we recommend visiting Tundra Enthusiast Facebook Groups, online Tundra Enthusiast Forums such as tundras.com. The search features on these groups and forums provide quick answers to a wealth of common troubleshooting issues. You can also reach out to us directly at Rave Off Road.