

Flexible Solar Panel Installed on a vehicle Roof



The roof solar panel install - Toyota Tacoma 2nd Gen (2005-2015)

Process to install a roof solar panel

ACCESSORIES FOR INSTALLATION

- 3M VHB 5952 (Black) 1" wide 15ft. I used 1 roll plus about 10" from a 2nd roll.
- Dual-plex neoprene sponge foam rubber roll 1 sided adhesive 15x60x1/16". Used 1 roll.
- Dual-plex neoprene sponge foam rubber roll 1 sided adhesive 15x60x1/8". Used 1 roll.

All items purchased locally.

INSTALLATION

STEP 1: CLEAN THE SOLAR PANEL

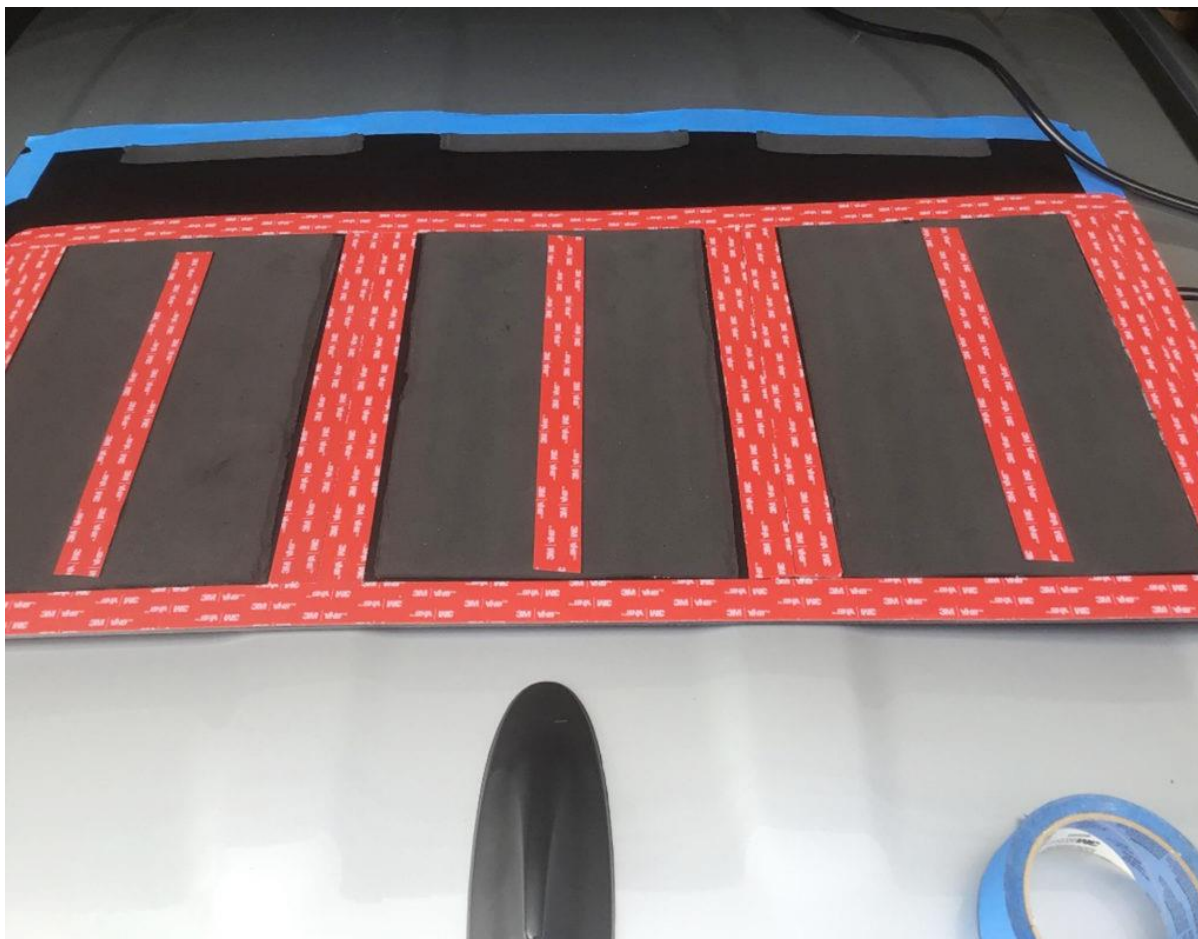


Clean the **Solar Panel** with alcohol before applying the 3M tape!!!

STEP 2: LAY OUT THE TAPE

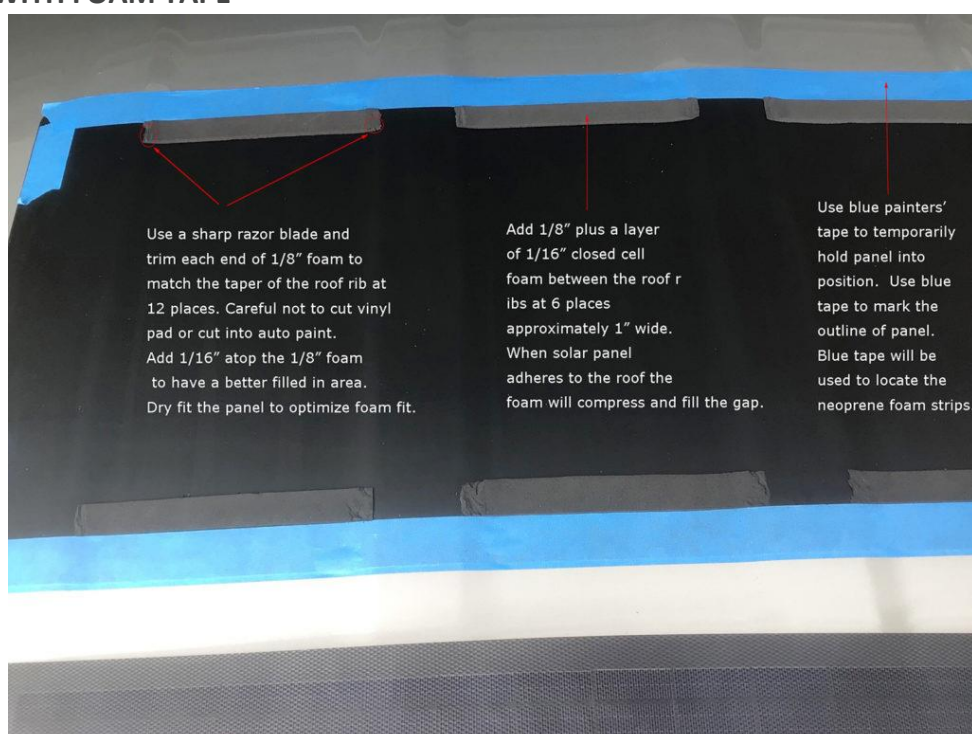


Use 2 rows of 1" wide 3M tape to align with each roof rib.
Centre to centre spacing approximately 10 1/8"



Add 1 row of 3M tape atop the foam layers (centre of foam), (3 places)
 1/16" foam layer plus 1/8" foam layer filled in area between rib tape 3 places. You must leave at least 1/2" gap between foam and 3M tape to avoid the angle portion of roof ribs.
 Note: Some small air bubbles will appear under the foam. These can be punctured with the corner of a razor blade.

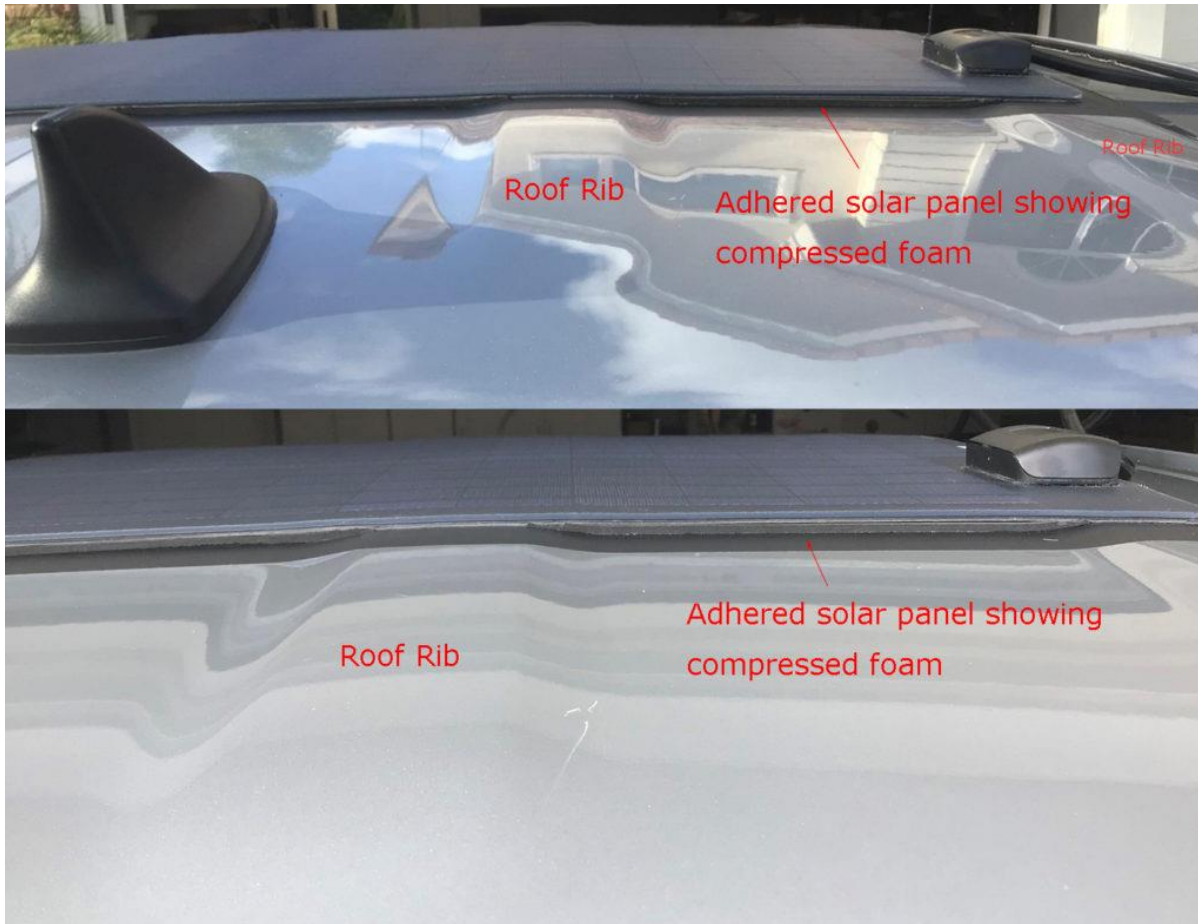
STEP 3: FILLED WITH FOAM TAPE



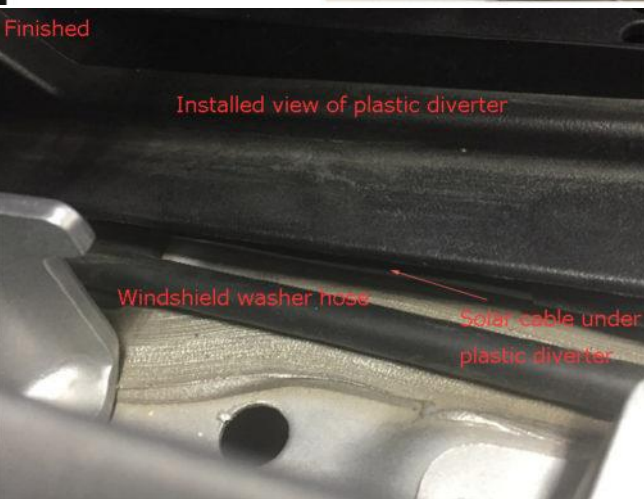
NOTE 1: Wash and then Clay bar roof area prior to installing the vinyl underlay. I used “Mothers Detailer”

NOTE 2: Clean with alcohol before applying Foam tape and **Roof Solar Panel!!!** The roof and back of panel must be free of contaminates for best adhesion. It also requires 72 hours to reach 100% strength.

STEP 4: PUT THE PANEL ON THE ROOF



STEP 5: LAY OUT THE CABLE



STEP 6: INSTALLATION FINISHED



This **50W solar panel** is designed to fit the Gladiator JT. Its dimensions are 32.7×14". A larger panel will fit the top area of a **2014 Tacoma Access** cab. Use caution as the cab roof arch increases as it goes wider (front to back). A panel as wide as 28-29" may be possible but 21-22" would be a safer bet.



Vinyl Underlay was made larger than required in case the leading edge of the **roof solar panel** began to lift away at high speeds. The intent was to add Eternabond tape if this happened. 80-90MPH speeds and panel is still holding solid.

