

# Installation Instructions



## Defender Rack Platform Kit 2024 – Up Toyota Land Cruiser® S/BT22



For Technical Support / Warranty Information please call 1-800-776-0767  
Smittybilt, 1017 W 600 N, Suite 4, Ogden, UT 84404

## Introduction

Thank you for choosing Smittybilt accessories for your Toyota Land Cruiser®. If you would like to view our full range of available accessories, please visit us at [www.smittybilt.com](http://www.smittybilt.com)



Winches



Defender Bed Rack Kit



Waypoint® 55L Dual Zone Fridge

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## Important Notes Before Starting

### ! IMPORTANT NOTE

Carefully read through this entire instruction manual thoroughly before attempting to install this part. Photos may vary from your vehicle. Installation will remain the same.

### ! IMPORTANT NOTE

Always use proper safety glasses and PPE. Failure to do so may result in injury.

### ! WARNING

Serious injury can occur when working on vehicles alone.

When possible, work with another person to reduce risk of injury from strain or other dangers that can occur when working alone.



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## Box Contents & Technical Information

1



2



3



4



5



ID	Part Description	QTY
1	Wind Fairing	1
2	Rack Mount Bracket - Left	1
3	Rack Mount Bracket - Right	1
4	Rack Mount Spacer	6
5	Rubber Trim	1



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\*Hardware not actual size.

## Box Contents & Technical Information

<b>Hardware Pack</b>	<b>QTY</b>
<b>M8-1.25 x 45mm Hex Bolt</b>	<b>12</b>
<b>M8-1.25 x 25mm Hex Bolt</b>	<b>4</b>
<b>M8-1.25 x 25mm Button Head Cap Screw</b>	<b>4</b>
<b>M8 XL Flat Washer</b>	<b>16</b>
<b>M8 Flat Washer</b>	<b>8</b>
<b>M8 Split Washer</b>	<b>16</b>
<b>M8-1.25 Nut Plates</b>	<b>2</b>
<b>M8-1.25 Accessory Wing Nuts</b>	<b>4</b>
<b>M6-1.0 Nylon Locking Nut</b>	<b>16</b>
<b>M6 XL Flat Washer</b>	<b>16</b>
<b>M6-1.0 Bolt Plates</b>	<b>8</b>
<b>6mm Allen Key</b>	<b>1</b>
<b>Rack Mount Spacer Tape</b>	<b>6</b>
<b>Square Butyl Tape</b>	<b>12</b>
<b>Black Silicon Sealant</b>	<b>1</b>



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### Step 1:

Park your vehicle on level ground and in a location where you are able to access both sides of the vehicle.



### Step 2:

Using a **trim tool** pry up the **front cover** from the **factory roof rail** where shown.

The cover should pop off without much effort.

**Repeat on opposite side.**



### Step 3:

Using a **trim tool** pry up the **rear cover** from the **factory roof rail** where shown.

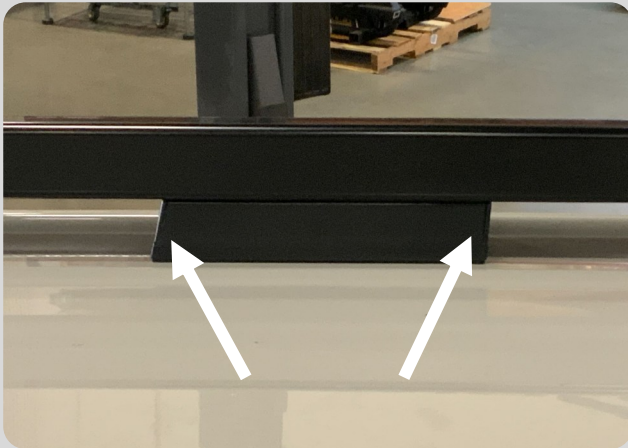
The cover should pop off without much effort.

**Repeat on opposite side.**



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### Step 4:

Using a **trim tool** pry the **inside edges** of the **middle roof rail cover** where shown.

The cover should pop off without much effort.

**Repeat on opposite side.**



### Step 5:

Remove the **(4) factory bolts** from the **front and rear mounting points** of the **roof rail**.

**Repeat on opposite side.**



### Step 6:

Remove the **(1) factory bolt** from the **middle mounting point** of the **factory roof rail**. Once the **factory roof rail** has been uninstalled, remove the remaining **(2) factory bolts** and **bracket** from the **roofs middle mounting point**.

**Carefully remove each side to not damage the vehicle.**

**Repeat on opposite side.**



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### Step 7:

Once the factory roof rails have been removed, **clean all (12) mounting locations** of debris.



### Step 8:

Place the **provided butyl tape** over each **factory mounting point hole**.

You will need to **slightly stretch the butyl tape** over each of the **(12) roof rail mounting holes**.



### Step 9:

Use the **provided black silicon sealant** to fill the **upper section** of the **(12) roof rail mounting holes**.

**Do not use an excess amount of silicon.**

**Repeat on all 12 factory roof mounting holes.**



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### Step 10:

Locate the provided (6) rack mount spacers and the (6) rack mount spacer tape pieces.



### Step 11:

Place the rack mount spacer tape onto the rack mount spacers as shown for all (6) spacers.



### Step 12:

Place a complete spacer with the rubber side down onto each of the (6) main roof mounting locations.

Make sure to center the mounting spacer slots on the factory mounting points.

Once installed press firmly to adhere the spacers to the butyl tape.



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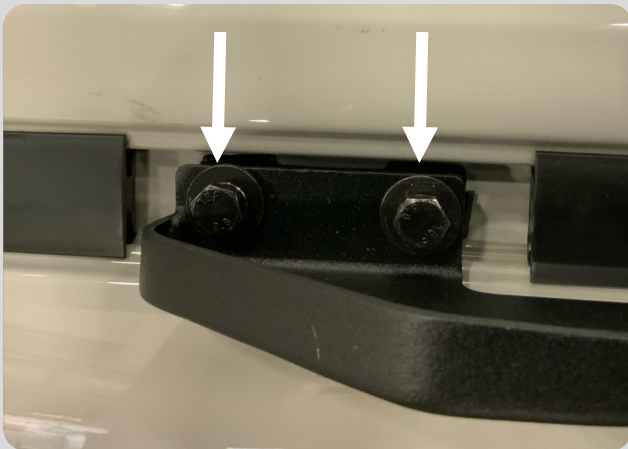


### Step 13:

Install the **provided rack mount bracket** - left using the **provided hardware (2) M8-1.25x45mm bolts, (2) M8 split washers, and (2) M8 xl washers.**

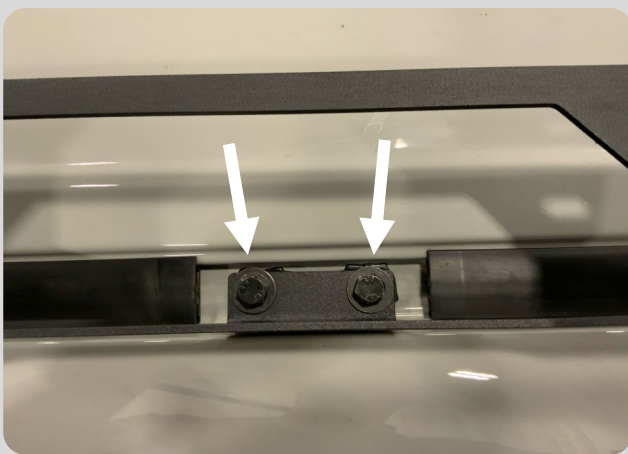
Place the **(2) sets of hardware** in the **middle rack bracket holes** and carefully line up the **hardware** with the **factory mounting hole locations.** Loosely thread the hardware into the factory mounting holes.

**Repeat on the front and back of each rack bracket mounting locations.**



### Step 14:

Starting from the front of the rack bracket align the rack to not contact any of the vehicles paint and then **tighten to factory bolt torque specifications.**



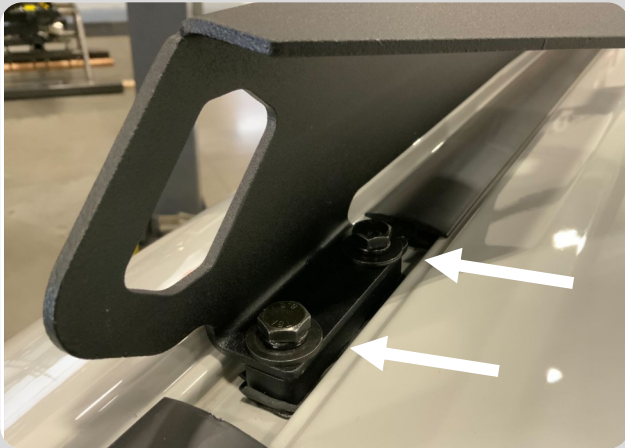
### Step 15:

Making sure the bracket does not contact the vehicles paint, **tighten the middle hardware to factory bolt torque specifications.**



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### Step 16:

Making sure the bracket does not contact the vehicles paint, **tighten the rear hardware to factory bolt torque specifications.**



### Step 17:

Place a protective surface over the roof of the vehicle to not scratch the paint over the next few steps.

Once the side brackets are torqued to spec, **install the provided rubber trim on the front lower edge of the wind fairing.** Cut off excess if trim if necessary.

**Install the provided wind fairing under the side rack brackets.**



### Step 18:

Secure the wind fairing to the side rack brackets using the provided hardware (4) M8-1.25 x 25mm button head bolts, (4) M8 XL flat washers, (4) M8 split washers, and the (2) M8 nut plates.

**Do not fully tighten the hardware at this time.**



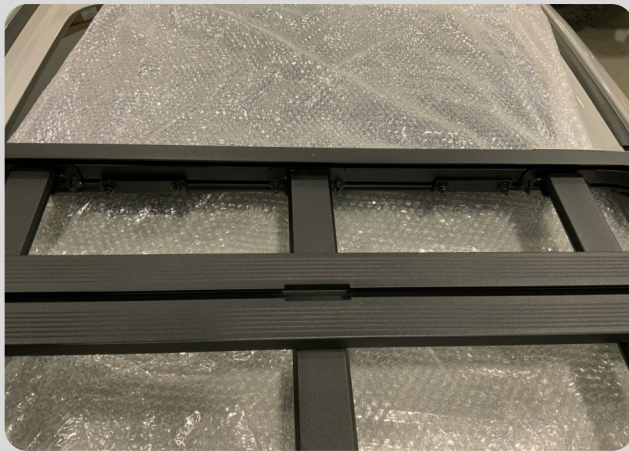
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### Step 19:

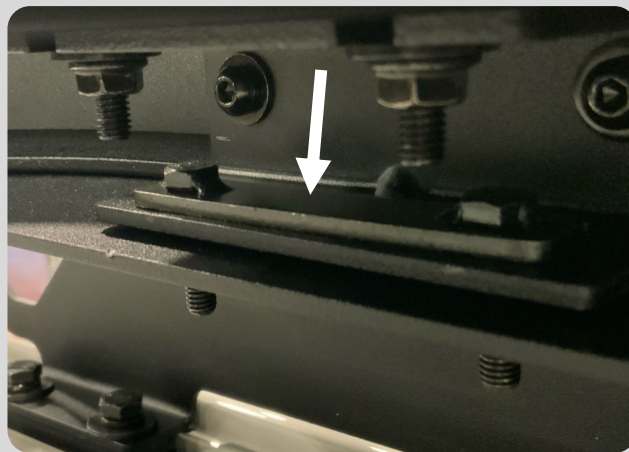
With assistance, place the **SB6045 defender rack** onto the **mounting brackets**.



### Step 20:

Line up the **SB6045 defender rack front mounting hardware** and the **wind fairing mounting slots**.

**Do not fully tighten at this time as adjustment of the SB6045 rack may be needed.**



### Step 21:

Secure the **SB6045 defender rack** and the **side rack brackets** together using the **provided (8) M6 bolt plates, (16) M6 flat washers, and (16) M6 nylon locking nuts**.

**Align the defender platform rack with the vehicle and tighten all rack and wind fairing hardware to torque specifications located on page 13.**



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### Step 22:

Align the defender platform rack with the vehicle and tighten all rack and wind fairing hardware to torque specifications located on page 13.

Final fitting of all components should not interfere with any paint on the vehicle other than the mounting locations.

If they do in anyway, then adjust the components to not damage the vehicle.



### Step 23:

**Congratulations!!!**

**You have now completed the installation of the 22+ Land Cruiser Defender Rack Platform Kit.**

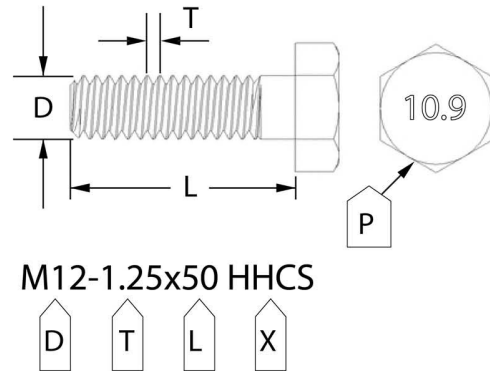
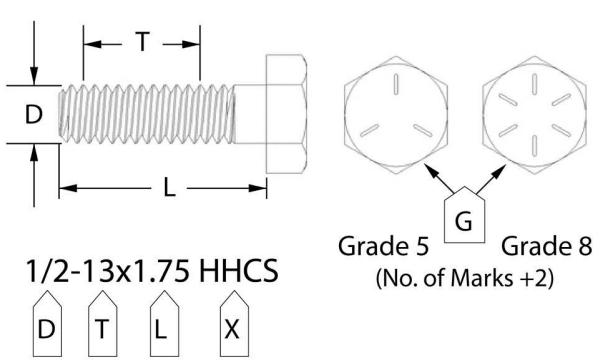


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# Bolt Torque Specifications

Use this only as a guide for hardware without a called out torque specification in the instruction manual.

<b>Bolt Torque and ID</b>						
Decimal System			Metric System			
<i>All Torques in Ft. Lbs. Maximums</i>						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290



G= Grade (Bolt Strength)  
 D= Nominal Diameter (Inches)  
 T= Thread Count (Threads per Inch)  
 L= Length (Inches)  
 X= Description (Hex Head Cap Screw)

P= Property Class (Bolt Strength)  
 D= Nominal Diameter (Millimeters)  
 T= Thread Pitch (Thread Width, mm)  
 L= Length (Millimeters)  
 X= Description (Hex Head Cap Screw)



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# Notes and Disclaimers

## Product cleaning and maintenance instructions

Stainless Steel Finish – Aluminum polish may be used to polish small scratches and scuffs on the finish. Mild soap, window or glass cleaner may be used to clean the finish. Dual state powder coat finish – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish, you may wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or wax that contains abrasive that could damage the finish. Textured coated finishes should be cleaned with a mild soap on a damp sponge. Do not apply polish or wax that requires to be removed by means of buffing. This type of wax is commonly used at car wash facilities. Chrome Finish – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish, you should wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or wax that contains abrasive that could damage the finish.

## SMITTYBILT ADVANTAGE WARRANTY

### LIMITED-LIFETIME WARRANTY FOR STRUCTURAL COMPONENTS

#### 5-YEAR FINISH WARRANTY

Smittybilt Automotive Products, LLC (SAP) warrants to the original purchaser that (a) the physical components (e.g., metal components, welds, etc.) of any SAP **Land Cruiser® Defender Rack Platform Kit** will be free of defects in material and workmanship for the lifetime of the product from the date of purchase of the bumper, and (b) the finish will be free of defects in material and workmanship for a period of 5-years from the original date of purchase. This warranty applies only to the original purchaser of the bumper and is non-transferable. To obtain any warranty service, you must provide SAP with a proof of purchase and date of purchase that is acceptable to SAP, such as a copy of your purchase receipt.

This warranty does not cover labor of part replacement of the bumper. SAP will, at its sole discretion, provide replacement part (s) for a defective bumper or component, provided this is done within the warranty period. To request assistance under warranty, one must call or email using the phone number or email at the bottom of this page. This warranty does not apply (1) wearables components; or (2) if the bumper has been damaged, including, but not limited to: abuse, misuse, collision, modification, misapplication, improper installation, or improper service. This warranty is void if any SAP serial number has been removed or defaced; or if the bumper is used for any commercial, industrial, or rental applications. This warranty only applies to bumpers bought, sold, and used within the United States or Canada unless otherwise specifically agreed in writing by SAP.

THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED TO A DURATION OF ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT. No SAP dealer, agent, or employee is authorized to make any modification, extension or addition to this warranty. SAP SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWN TIME OR LOSS OF USE) UNDER ANY LEGAL THEORY, EVEN IF SAP WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow the exclusion of implied warranties or the exclusion or limitation of liability for incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights. You may also have other rights that vary from state to state. SAP reserves the right to change product design without notice. In situations in which SAP has changed a product design, SAP shall have no obligation to upgrade or otherwise modify previously manufactured products. For warranty inquiries contact SAP at:

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Customer Service Department

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**WARNING: Cancer and Reproductive Harm**  
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