100 SERIES LAND CRUISER ROOF RACK INSTALLATION INSTRUCTIONS

FITMENT:
1998-2007 TOYOTA LAND CRUISER AND LEXUS LX470
PLEASE READ ALL DIRECTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION. ALWAYS USE THE APPROPRIATE SAFETY EQUIPMENT; ESPECIALLY WHEN WORKING WITH POWER TOOLS. THIS DOCUMENT SERVES AS A GUIDE ONLY. SOME PARTS MAY BE UPDATED AND MAY NOT BE IDENTICAL TO THE ONES SEEN HERE.
REQUIRED TOOLS

1/4” DRIVE SOCKET WRENCH
1/4” DRIVE U-JOINT
1/4” DRIVE 6’ EXTENSION
3/8” DRIVE SOCKET WRENCH
12MM SOCKET OR T30 TORX BIT - 3/8” DRIVE SOCKET
7/16” - 1/4” DRIVE SOCKET
1/2” - 1/4” DRIVE SOCKET
MEASURING TAPE
SILICONE SEALANT
PLASTIC PRYBAR

RECOMMENDED TOOLS

1/4” DRIVE TORQUE WRENCH
3/8” DRIVE TORQUE WRENCH
LONG PIECE OF STRAIGHT WOOD OR METAL TO ASSIST IN ALIGNMENT
PARTS LIST

Front Fairing
Rear Fairing
Nut Plate (6)
Middle Side Skirt (2)
Load Bar (5)
Rear Side Skirt (2)
6 Hole Side Skirt Stiffener (8)
Front Side Skirt (2)
Rear Fairing Spacer (2)
Load Bar Mount (8)
Roof Mount (8)
Fairing Weather Strip
4 Hole Load Bar Spacer (2)
5/16-¾" Bolt (90)
5/16" Washer (90)
Rear Fairing Spacer (2)
SS 1/4" Washer (16)
Bonded Washers (16)
SS 1/4" Lock Nut (16)
Roof Mount (8)
Nut Plate (6)
Bonded Washers (16)
OPTIONAL PARTS LIST

- RTT Bar (2)
- Awning Mount (2)
- Additional Load Bar Spacer
- Additional Load Bar
- Remove the factory rack (if applicable) using a plastic prybar to remove the endcaps.

- Remove the two bolts under each endcap in order to remove the factory rack.

- Using a plastic prybar, remove the rain gutter cover.

- Remove metal spacers and gasket

- Clean gutter
- Place a liberal amount of silicone sealant in/between the front two roof holes as shown.

- Install the roof mount (studs facing inwards towards the vehicle) using (2) M8 bolts and (2) bonded washers with the rubber sides facing down. Tighten these bolts.

Note: the (2) mounts with the shortest space between the holes go to the front most gutter holes.
- Repeat step two for the remaining (7) roof mounts.

- A total of (16) M8 bolts and (16) bonded washers should be used.

**Note:** It is recommended to wash and wax the roof once the silicone sealant dries.
FOUR

- With all (8) roof mounts installed, begin installing the load bar mount to the roof mount using (2) SS ¼” washers and (2) SS ¼” lock nuts.

- Tighten just enough to allow the load bar mount to be adjusted by hand.
- Repeat step four for the remaining (7) load bar mounts using a total of (16) 1/4” lock nuts and (16) 1/4” washers.
- Using (4) 5/16” - 3/4” bolts and (4) 5/16” washers, install the front most load bar onto the load bar mounts using the side nuts as shown (red) on the driver and passenger sides.
- Tighten just enough to allow the load bar to be adjusted by hand.
- Center the load bar between the two roof mounts by eye.
Repeat step six for the remaining (3) load bars using a total of (16) 5/16” - 3/4” bolts and (16) 5/16” washers.
- Using (4) 5/16 "- 3/4" bolts and (4) 5/16" washers, attach the front, the middle, and the rear side skirts using only the bottom bolts of (2) 6 hole side skirt stiffeners as shown.

- Leave hand tight.

**Note:** The Dissent fist logo is on the rear side skirt.
- Install (2) 6 hole side skirt stiffeners as shown using (4) 5/16“ - 3/4” bolts and (4) 5/16” washers.

- A total of (8) 5/16“ - 3/4” bolts, (8) 5/16” washers, and (4) side skirt stiffeners should be used to partially assemble the side skirt.
- Install the partially assembled side skirt onto the load bars using (8) 5/16 “- 3/4” bolts and (8) 5/16” washers; two on the top of each load bar as shown.

- Leave finger tight.
Install the remaining (16) 5/16 "-3/4" bolts and (16) 5/16" washers on the side skirt middle holes. Leave the bolts finger tight.

**Note:** It may take some effort to get the bolts lined up and started. **Be sure not to cross thread the bolts.**

-Repeat steps eight-ten for the opposite side.
--Using the 4 hole load bar spacer (2) and (8) 5/16 “- 3/4” bolts and (8) 5/16” washers, install the 5th front most free hanging load bar as shown.

-Leave the bolts finger tight.

-Note: It may take some effort to get the bolts lined up and started. Be sure not to cross thread the bolts.
- Install the provided weather strip onto the lower lip of the front fairing with the cushion side facing down towards the roof.
FOURTEEN

-Secure the front fairing into place using (6) 5/16”-3/4” bolts and (6) 5/16” washers.

-Leave the bolts finger tight.

-Ensure the weather strip fits snugly over the entirety of the bottom lip of the front fairing.
-Secure the rear fairing into place using (6) 5/16”-3/4” bolts and (6) 5/16” washers.

-Leave the bolts finger tight.
- Place the (2) rear fairing spacers between the rear fairing as shown and secure them using (2) 5/16”-3/4” bolts and (2) 5/16” washers.

- Leave the bolts finger tight.
Close the gap between the front, rear, and middle side skirts by pushing them together. If they resist moving, loosen the bolts holding each side skirt until they can be moved.

Once each gap is closed, the (6) 5/16” bolts can be tightened to 25 foot pounds by first tightening the middle (red), then bottom (blue), then top (green) to prevent movement.
- The rack must now be aligned.

- To align driver to passenger side, pick various points on one side and measure from the outside lip of the gutter channel to the edge of the rack. Do the same on the opposite side and position the rack evenly (driver to passenger) on the body.
-Once aligned driver to passenger, snug the (12) 5/16”-3/4” bolts from step six holding the load bars to the load bar mounts.
The height of the rack must now be aligned.

Start by setting the desired height of the middle load bar.

**Note:** Setting the middle cross bar as close as possible to the body typically looks best.

-the height of the rack is based on personal preference. Its important to ensure the rack visually looks level on the body.

**Note:** A long straight piece of wood or metal makes aligning the height of the load bars easier.
Once the middle load bar height is set, snug (1) of the 1/4” lock nuts on either side to hold it in place.

**Note:** a ¼” drive u-joint and 6” extension is required for this step.

-Using a measuring tape, measure from the top lip of the door opening to the bottom edge of the rack in the rear, middle, and front. Measure from the same location on the opposite side to ensure the same measurement.

-Loosen/snug (1) of the 1/4” bolts and make adjustments if necessary.
TWENTY ONE

-At this point the adjustment of the rest of the rack should be based on three factors:

1. Even height of the load bars using a long straight piece of wood or metal.

2. Even height on driver and passenger sides using a measuring tape at various locations along the rack as done in step twenty.

3. Personal preference with alignment to the cab body.

Note: the gap between the front and rear side skirts (red) should still be even at the end of the alignment process. If the gap is significantly larger at the top or bottom, the alignment of the rack is not accurate. Remeasure to correct the issue.
TWENTY TWO

-Once alignment has been achieved using steps eighteen to twenty one, the (16) 1/4” lock nuts holding the load bar mounts to the roof mounts can be tightened to approximately 5 foot pounds.

-Double check all measurements left to right and height and make adjustments as necessary by loosing bolts where needed.
TWENTY THREE

-Triple check the alignment left to right, top to bottom, and of the load bars

-If the alignment is complete, Tighten the all the 5/16”-3/4” bolts from on the entire rack to approximately 25 foot pounds.
FOURTEEN

-Triple check the alignment left to right, top to bottom, and of the load bars

-If the alignment is complete, tighten the all the 5/16”-3/4” bolts on the entire rack to approximately 25 foot pounds.
OPTIONAL

-To install the RTT bars, mount the bars to the bottom of your tent using the hardware provided with your tent.

-Remove (8) 5/16”-3/4” bolts and washers in step seventeen where the tent is positioned to sit.

Place the tent on the rack and replace the (8) 5/16”-3/4” bolts with the (8) 5/16”-1” bolts and washers provided with the tent bars.

To install the awning mounts. Place them on the RTT bars as shown and use (4) additional 5/16”-3/4” bolts and washers on the sides to secure them. If installing the awning mounts without the RTT bars, install them using the same process as the RTT bars.
ENJOY!

For questions or concerns, contact:

DISSENT OFFROAD at
530-588-2494 or through DISSENTOFFROAD.com