Step 1 V100SD-GN Engine Skid Install



Step by step on how to install the Engine Skid (with diff drop cross member) on the 100 Series Land Cruiser / Lexus LX470! Install video: https://youtu.be/ckHi6dJ4PoQ (the video covers the full skid system; this doc covers the engine skid). Questions or Support: Phone: 269-353-1184 Email: info@victory4x4.com

Step 2 Included Parts



Included Parts: engine skid plate and diff drop cross member (with diff drop spacers).

Step 3 Included Hardware

046-0116 BOLT PACK

V100SD-GN-BP • Bill of materials (per 1 bag)

PIECES / BAG 38

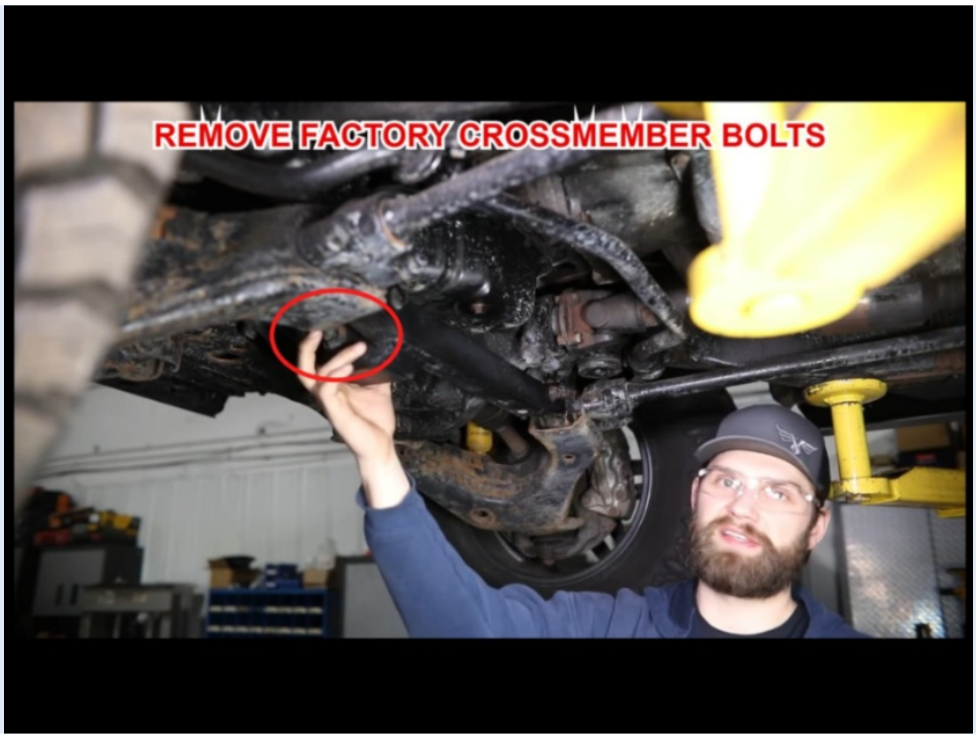
BIN	QTY	PART #	DESCRIPTION
1	2	040-0068	3/8-16 x 3-1/2 HEX CAP GR5 ZNC
2	2	040-0026	3/8-16 SERR FLANGE NUT HARD ZNC
3	2	040-0122	1/2-13 x 1-1/2 BUTTON HD SOC CAP ZNC
4	5	040-0019	1/2-13 SERR FLANGE NUT
5	2	040-0005	5/16-18 x 3/4 BUTTON HD SOC CAP 18-8 SS
6	2	040-0020	5/16-18 SERR FLANGE NUT HARD ZNC
7	4	040-0101	M14-1.5 x 35 HEX CAP
8	2	040-0014	5/16 USS FLAT WASHER ZNC
9	1	040-0224	M14-2.0 x 130 HEX CAP 8.8 ZNC
10	1	040-0225	M14-2.0 NYLON LOCKNUT YEL ZNC
11	2	040-0226	2 OD x 3/4 ALUMINUM SPACER (1)
12	2	040-0255	M14 FLAT WASHER ZNC
13	4	040-0003	9/16 USS FLAT WASHER ZNC
14	3	040-0029	1/2-13 x 1 CARRIAGE BOLT GR5 ZNC
15	2	040-0138	5/16 (M8) MIL-SPEC FLAT WASHER 316 SS
16	2	040-0292	1/2 MIL-SPEC FLAT WASHER 18-8 SS

Set bins out in this order • One bag at a time • Gold = zinc • Black = black finish

Odoo BOM link in description

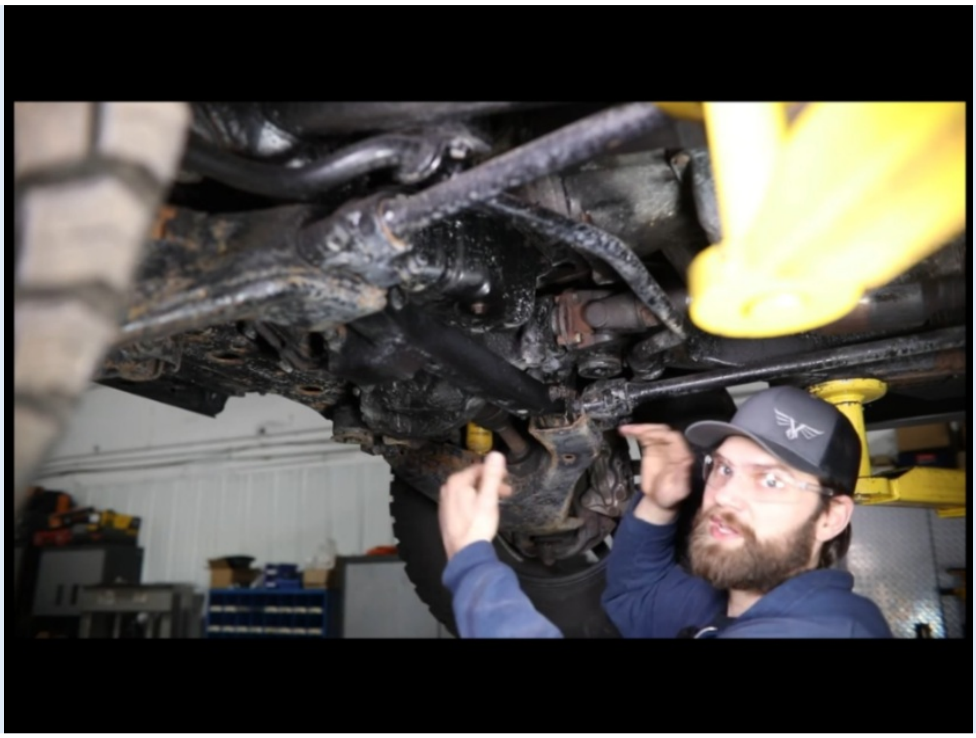
Included Hardware: 046-0116 bolt pack.
Tools: 14mm socket, 3/4" socket, 5/16" and 3/16" hex bits, and a jack to support the differential.

Step 4 Remove the Factory Cross Member



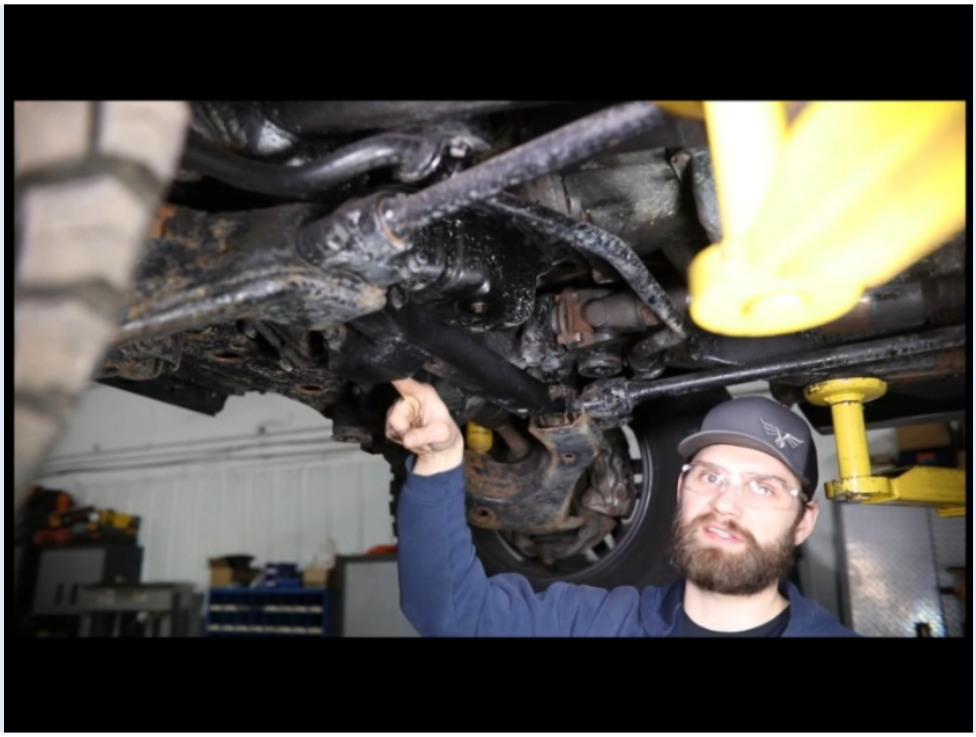
Support the front differential from underneath. Remove the four cross member mounting bolts and the driver side diff mount bolt, then drop the factory cross member out.
Video timestamp: 0:50

Step 5 Install the Diff Drop Spacers



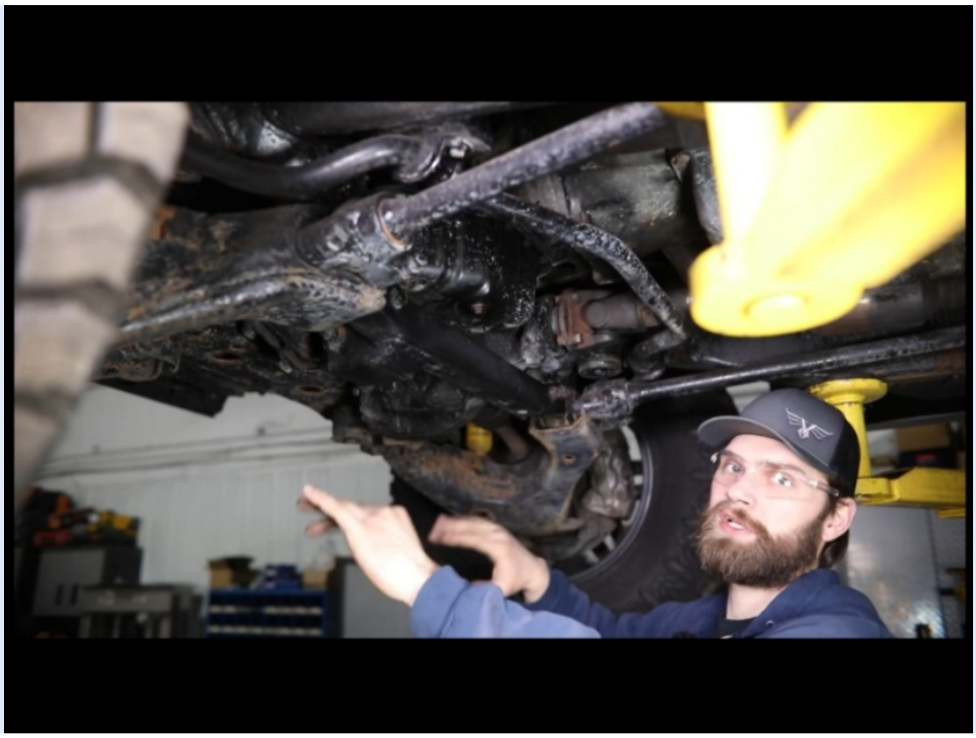
Move the rear passenger side diff mount bolt to the front with the diff drop spacers on top. Then reinstall the rear using the supplied bolt, again with a spacer on top.
Video timestamp: 1:05

Step 6 Install the Diff Drop Cross Member



Slide the new cross member into place, line up the four mounting bolts and run the driver side diff mount bolt through the cross member. Start all hardware loosely.
Video timestamp: 1:20

Step 7 Tighten the Diff Mounting Bolts



Once all of the hardware is started, tighten the cross member bolts and all of the diff mounting bolts.
Video timestamp: 1:35

Step 8 Hang the Front Skid Bolts





On the lower cross member just in front of the radiator, fish a 3/8" x 3" bolt with a washer up through each of the two large bottom holes and start it into a 3/8" flange nut on top. Leave them loose so the skid slots can slide over the washers.
Video timestamp: 1:50

Step 9 Slide the Skid Over the Washers



With the bolts hanging, slide the front slots of the skid up over the washers and line up the outer mounting holes.
Video timestamp: 2:23

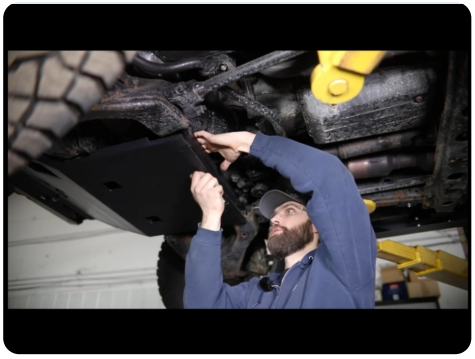
Step 10 Start the Outer 14mm Bolts



Start two of the provided 14mm bolts with washers on each side by hand. This supports the weight of the skid.
Video timestamp: 2:39

Step 11 Install the Rear Skid Hardware





Drop a 1/2" serrated flange nut over the top of the cross member at each rear mounting hole, then push a 1/2" button head bolt up from below and start it. (If you are also installing the transmission skid, slide it in over the engine skid before installing this hardware.)
Video timestamp: 3:39

Step 12 Tighten the Rear Bolts



Once both rear bolts are started, tighten them with a 5/16" hex.
Video timestamp: 4:20

Step 13 Tighten the Front Bolts



Tighten the outer 14mm bolts. On the two front 3/8" bolts, pull down on the washer as you spin the bolt up so the flange nut on top grabs the cross member, then snug them up tight to the skid.
Video timestamp: 10:52

Step 14 Install the Access Door



Install the access door using the 5/16" button heads and serrated flange nuts, then tighten with a 3/16" hex.
Video timestamp: 11:44

Step 15 Installation Complete



Confirm all hardware is tightened. Congrats! Your installation of the 100 Series Engine Skid is now complete. Enjoy!