

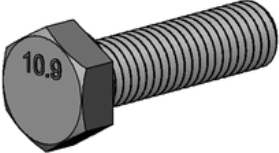
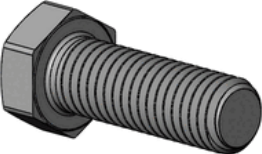
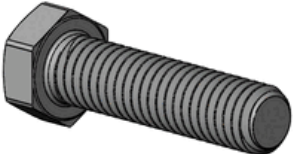
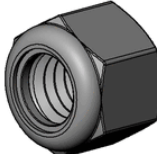
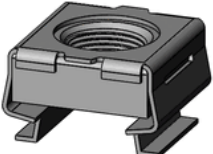
5th gen 4Runner

Rock slider installation

WITH KDSS OR WITHOUT KDSS

Read the full guide before starting. Installation should be performed by a qualified individual or professional.

Check the kit

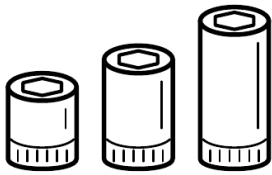
A × 2  Rock sliders	B × 32  M8 hex bolts M8 × 30 mm · class 10.9	C × 32  M8 washers
D × 1  1/2 inch hex bolt 1/2-13 × 1-1/2 in · grade 8	E × 1  Nut plate and rod Stainless steel plate	F × 2  1/2 inch washers
G × 1  Gusset bolt 3/8-16 · grade 8	H × 1  3/8 inch nut 3/8-16	I × 3  3/8 inch washers
J × 1  Snap in nut 1/2-13	K × 2  M8 rivet nuts Optional installation	L × 1  Bolt on gusset

Parts shown for identification. Compare the full kit before starting.

Print: Letter · 100% / Actual size · grayscale · double-sided, flip on long edge.

Get ready

ALL VEHICLES



SOCKETS



WRENCH



TORQUE WRENCH



SAFETY GLASSES

Tools and supplies

- Sockets: 12 mm for factory bolts; 13 mm for supplied M8 bolts; 19 mm or 3/4 in; 9/16 in. Ratchet and extensions; 9/16 in wrench.
- Torque wrench, gloves, eye protection, anti-seize and flathead screwdriver. Keep the vehicle owner's manual nearby.
- M8 × 1.25 tap, strongly recommended for cleaning the frame threads. Jack and suitable stands as needed.
- KDSS: angle grinder if trimming the cover tab. Optional rivet nuts: drill and a suitable rivet-nut setting tool.

01 Park and secure the vehicle

Park on a flat, stable surface and engage the parking brake. If the vehicle is raised, support it on suitable stands; never work under a vehicle supported only by a jack.

02 Clean the mounting threads

Clean the existing threads with an M8 × 1.25 tap. Leave the installed bolts in place at this stage.

- Clean the visible, accessible holes along the sides of both frame rails.
- Driver-side crossmember: clean 4 accessible holes without KDSS, or 2 with KDSS.
- Passenger side: clean the threaded hole under the frame, near the rear control-arm bracket.

For upper holes with limited access, use a socket that fits the tap and turn it carefully with a ratchet.

03 Prepare the frame and bolts

Pry out the plastic frame caps where the sliders will sit. Work carefully if keeping the caps; they break easily.

Put washers C onto the M8 bolts B. Apply anti-seize to the bolts before installation.

Next: install the passenger-side slider first.

Prepare the passenger side

PASSENGER SIDE | ALL VEHICLES

04 Fit the nut plate

Snap nut J into stainless plate E, on the side opposite the rod. Find the square opening on the angled face of the crossmember.



A Insert the plate into the square opening. B Rest the rod along the lower edge.

Keep the rod accessible. Use it to hold the nut in position when fitting bolt D.

05 Move the brake cable bracket

At the rear of the passenger-side frame rail, remove the brake cable bracket bolt with a 12 mm socket. Move the bracket away from the frame so the slider can slide into place.

When the slider is raised, the brake cable bracket must sit over the slider mounting plate.

Optional rivet nuts K

Under the frame, near the brake cable bracket, there are three holes: one threaded hole and two unthreaded holes. The two supplied M8 rivet nuts can be installed in the unthreaded holes for the optional additional mounting points.

Enlarge only those two holes to suit the supplied rivet nuts. They must slide in easily while remaining snug. Set them with a suitable rivet-nut tool. Confirm the required hole size for the supplied rivet nuts before drilling.

Keep the existing threaded hole intact.

Mount the passenger slider

PASSENGER SIDE | ALL VEHICLES

1

SUPPORT

Keep the slider supported



2

HAND START

Start every bolt freely



3

TIGHTEN

Follow the listed order

06 Raise and align the slider

Support the slider with jacks and raise it into position. Keep the brake cable bracket over the slider mounting plate. Align several holes before fitting the bolts.

07 Start every bolt by hand

- Start M8 bolts B with washers C along the side of the frame. Leave them a few turns loose.
- Start the M8 bolts underneath the frame.
- Start 1/2-13 bolt D with washer F into the nut plate. Hold the rod to keep the nut aligned.

If a bolt does not turn freely by hand, move the slider slightly and realign it. Do not force the bolt or use tightening to pull misaligned holes together.

08 Tighten in this order

After every bolt is correctly started and fully threaded in, tighten the side bolts first, then the lower bolts, then the nut-plate bolt.

Order	Fastener location	Torque
1	M8 bolts along the side of the frame	20 ft-lb
2	M8 bolts underneath the frame	20 ft-lb
3	1/2-13 bolt into the nut plate	40 ft-lb

Check that the brake cable bracket is correctly seated and secured.

Choose the driver-side path

WITH KDSS → Continue on page 5.

WITHOUT KDSS → Skip page 5 and continue on page 6.

Make room for KDSS

DRIVER SIDE | KDSS ONLY

Without KDSS: skip this page and continue on page 6.

09 Remove and modify the hose cover

Remove the front KDSS hose cover and clean out the dirt behind it. Trim the cover's locating tab along the dashed line in photo A, or bend the tab out of the way.



A Cover tab to trim or bend. B Clearance with the cover removed.

The tab must clear the crossmember surface where the slider will sit. Keep the cover for reinstallation.

10 Release the rear skid strap

Find the fuel-tank skid support strap near the rear shock absorber, above the rear lower control arm.

Remove its bolt with a 12 mm socket. Keep the bolt: the strap will be reinstalled after the slider is in position.

Next: continue with the driver-side steps on page 6.

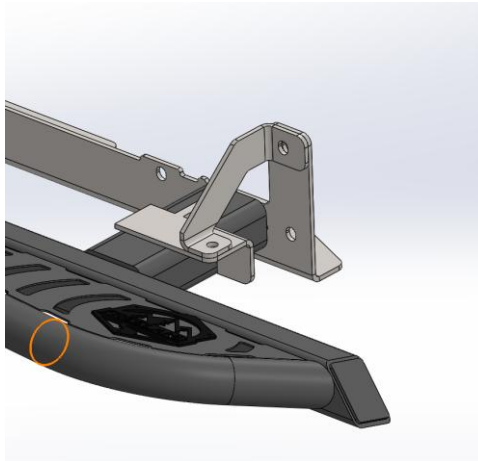
Prepare the driver side

DRIVER SIDE | ALL VEHICLES

11 Position the bolt on gusset

WITHOUT KDSS: fit the lower end of gusset L to the slider with bolt G, nut H and washers I. Leave it loose. The upper end attaches to the frame later.

WITH KDSS: wait until the slider is in position to install the gusset.



Gusset orientation on the slider

12 Lower the fuel tank skid

Use a 12 mm socket to remove the three bolts holding the skid to the frame. The supplied longer bolts will replace them.

Lower the skid only as far as it moves freely, without bending anything. With KDSS, removing the rear strap allows more movement.



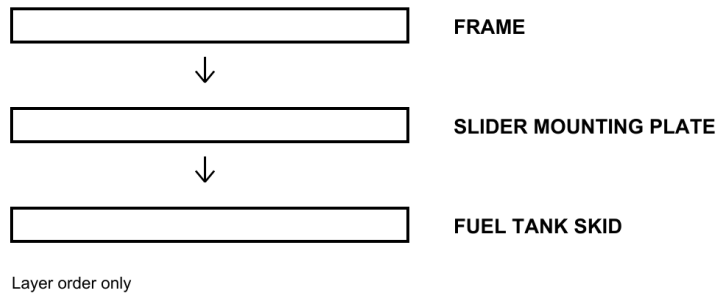
KDSS example with the fuel tank skid lowered

Fit the driver slider

DRIVER SIDE | ALL VEHICLES

13 Slide the mounting plate into place

Raise the slider into position. Its lower mounting plate must sit between the frame and the fuel-tank skid, as shown below.



KDSS: slide the slider bracket behind the hoses. The hose brackets can usually stay bolted in place; loosen their mounting brackets only if needed for clearance. Keep the hydraulic connections closed.

14 Start the bolts and fit the gusset

Apply anti-seize. Start the M8 bolts by hand along the frame side and crossmember. Trial-fit the lower bolts by hand to confirm alignment.

KDSS: now fit gusset L with bolt G, nut H and washers I. Keep the assembly loose until all bolts are started.

On all vehicles, attach the upper end of the gusset to the frame. Start its fastener by hand and leave it loose until all mounting bolts are in place.



Completed driver-side mounting area

Refit and check

DRIVER SIDE | ALL VEHICLES

15 Reinstall the skid and covers

Once the mounting bolts have been started, remove the lower trial-fit bolts as needed, raise the fuel-tank skid and reinstall it with the supplied longer bolts.

- KDSS: reinstall the rear skid support strap and its retained bolt.
- KDSS: reinstall the front hose cover while fitting its two shared bolts among the four crossmember bolts.
- If any hose mounting brackets were loosened, secure them again and check hose clearance.

16 Tighten in this order

Confirm every bolt is correctly threaded in. Tighten the side bolts first, then the lower and crossmember bolts, then the gusset bolt.

Order	Fastener location	Torque
1	M8 bolts along the side of the frame	20 ft-lb
2	M8 bolts under the frame and at the crossmember	20 ft-lb
3	3/8-16 gusset bolt	25 ft-lb

17 Check the completed installation

- ☐ All mounting bolts tightened to the values listed in this guide.
- ☐ Brake cable bracket secured; cable clear of the slider.
- ☐ Fuel-tank skid and all removed supports reinstalled.
- ☐ KDSS hoses and cover clear of the slider and securely refitted.
- ☐ After a few days of driving, recheck the bolts for looseness.

Using a high lift jack

Position the jack on the slider between its front and rear rectangular support tubes. Follow the jack manufacturer's instructions and use suitable vehicle supports before working underneath.

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