



SDI **E-CLIK**

***SDI E-CLIK Shock
Installation Manual
Toyota 4Runner
2010-2022***

SDi E-CLIK Shocks Toyota 4Runner KDSS Installation Manual

E-CLIK Shocks Toyota 4Runner KDSS Package Contents

1. 2x Front Coil-over Shocks
2. 2x Rear Shocks

Required Tools

1. Wheel Chocks
2. 3-Ton Floor Jack and Flat Top Jack Stand
3. Ratchet
4. Torque Wrench
5. Metric Wrench and Socket Set
6. Standard Wrench and Socket Set
7. Impact (optional)

Estimated Installation Time

2 hours

SDi E-CLIK Shocks Location Instruction

Each of the 4 shocks included in the E-CLIK System is designed to be mounted in one specific location.

The location of each shock can be determined by looking at the sticker installed on the reservoir of the shock, and by reading the location code at the end of the product number (see pictures and code description below):

- FL → Front Left Shock (Front Driver Side)
- FR → Front Right Shock (Front Passenger Side)
- RL → Rear Left Shock (Rear Driver Side)
- RR → Rear Right Shock (Rear Passenger Side)



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1. Install Front Shocks

Make sure vehicle is on level ground, in park and parking brake is on.

Remove Front Stock Shocks:

- a. Place wheel chocks on the rear wheels of the vehicle.
- b. Jack up the front side of the vehicle with 3-Ton Floor Jack.
- c. Place 3-Ton Flat Top Jack Stands under the front side of the frame.
- d. Remove front wheels.
- e. Unbolt the 4x skid plate bolts with 12mm socket.
- f. Remove the skid plate.
- g. Start with the Front Right Side.
- h. Unbolt the ABS line from the upper control arm with 10mm socket.
- i. Pull the upper ball joint pin, loosen the upper ball joint nut with 19mm socket.
- j. Separate the upper control arm from the steering knuckle.
- k. Repeat on other side.
- l. Unbolt bottom bolt and nut of the front right shock with 19mm socket and 19mm wrench.
- m. Unbolt the 3x top nuts of the front right shock with 14mm socket and 14mm wrench.
- n. Use a strap to hold the steering knuckle in place and avoid stretching the brake line, then Remove front right stock shock and keep hardware for install of new shock.
- o. Repeat on front left side.

Install Front SDi Shocks:

- a. Starting with the Front Left Side
- b. Place SDi E-CLIK front left shock.
- c. Secure top mounting plate of the front left shock using the 3x supplied mounting bolts and washers. Do not fully tighten yet.
- d. Secure rod end of the front left shock using the stock bolt, nut, and washers.
- e. Reinstall the upper control arm to the steering knuckle and install previously removed upper ball joint nut, and remove the strap holding the steering knuckle.
- f. Reinstall the ABS line to the upper control arm with 10mm socket.
- g. Tighten the top mounting bolts at 47 ft.lbs with 9/16" socket and torque wrench.
- h. Tighten the bottom bolt and nut to manufacturer's specifications (63 ft.lbs) with 19mm wrench, 19mm socket and torque wrench.
- i. Tighten the upper ball joint nut to manufacturer's specifications (100 ft.lbs) with 19mm socket and torque wrench. Replace the upper ball joint pin after tightening.
- j. Next with the Front Right Side.
- k. Place a 3-Ton Floor Jack under the KDSS hydraulic cylinder on the left side, and compress the KDSS sway bar cylinder to force the lower control arm on the right side down.
- l. Then repeat Front Left Shock Install Steps.
- m. Release Floor Jack from under the KDSS hydraulic cylinder.

Install Front Reservoir Brackets:

- a.** Remove designated plastic clip, then place and secure the Reservoir Bracket with the supplied bolt, washers, and nut.
- b.** Tighten the supplied bolt and nut with 5/8" socket and 5/8" wrench.
- c.** Place the shock reservoir in the Reservoir Bracket.
- d.** Secure it using the supplied hose clamps with 8mm socket.
- e.** Repeat on the other front side.
- f.** Reinstall the skid plate.
- g.** Tighten the 4x skid plate stock bolts with 12mm socket.
- h.** Reinstall the front wheels.
- i.** Check clearance between brake line and tire by turning front wheels fully left and right.
- j.** Jack up the front side of the vehicle with 3-Ton Floor Jack.
- k.** Remove the 3-Ton Flat Top Jack Stands.
- l.** Jack down the front side of the vehicle.
- m.** Torque front wheels lug-nuts to the wheel manufacturer's specifications.

2. Install Rear Shocks

Make sure vehicle is on level ground, in park and parking brake is on.

Remove Rear Stock Shock:

- a. Place wheel chocks on the front wheels of the vehicle.
- b. Jack up the rear side of the vehicle with 3-Ton Floor Jack.
- c. Place 3-Ton Flat Top Jack Stands under the rear side of the frame.
- d. Remove both rear wheels.
- e. Unbolt bottom bolt of the rear shock with 17mm socket.
- f. Unbolt top nut of the rear shock with 17mm wrench, it is best to hold the axle with a floor jack while getting the top nut loose.
- g. Remove rear stock shock and keep hardware for install of new shock.

Install Rear SDi Shocks:

- h. Remove the nut, washer, and top bushing as shown, and place SDi E-CLIK rear shock.
- i. Use the floor jack to raise the axle as you place the top bushing, washer, and nut.
- j. Secure supplied top nut, washer, and bushing with 3/4" wrench.
- k. Secure stock bottom bolt with 17mm socket.
- l. Tighten top nut with 3/4" wrench, until you see threads above the top nut.
- m. Tighten bottom bolt to manufacturer's specifications (72 ft.lbs) with 17mm socket and torque wrench.
- n. Release floor jack and repeat on the other rear side.
- o. Reinstall the rear wheels.
- p. Jack up the rear side of the vehicle with 3-Ton Floor Jack.
- q. Remove the 3-Ton Flat Top Jack Stands.
- r. Jack down the rear side of the vehicle.
- s. Torque rear wheels lug-nuts to the wheel manufacturers specifications.

Refer to “SDI-IM-2251003 - E-CLIK Electronics Toyota Tacoma-4Runner Installation Manual” for the installation of the E-CLIK Electronics System.