

# Z1 FRONTIER U-BOLT FLIP KIT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

|           |                       |
|-----------|-----------------------|
| 2005-2021 | Nissan Frontier (D40) |
| 2022+     | Nissan Frontier (D41) |

## PROLOGUE:

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

## WARNING!

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Off-Road Frontier U-Bolt Flip Kit, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

## **PARTS INCLUDED:**

| Item | Quantity | Description                |
|------|----------|----------------------------|
| 1    | 2        | Leaf Spring Plate          |
| 2    | 4        | U-Bolt                     |
| 3    | 8        | M14 x 1.5 Flanged Lock Nut |

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets
- Assorted Metric Wrenches
- Torque Wrench

## **SAFETY REQUIREMENTS:**

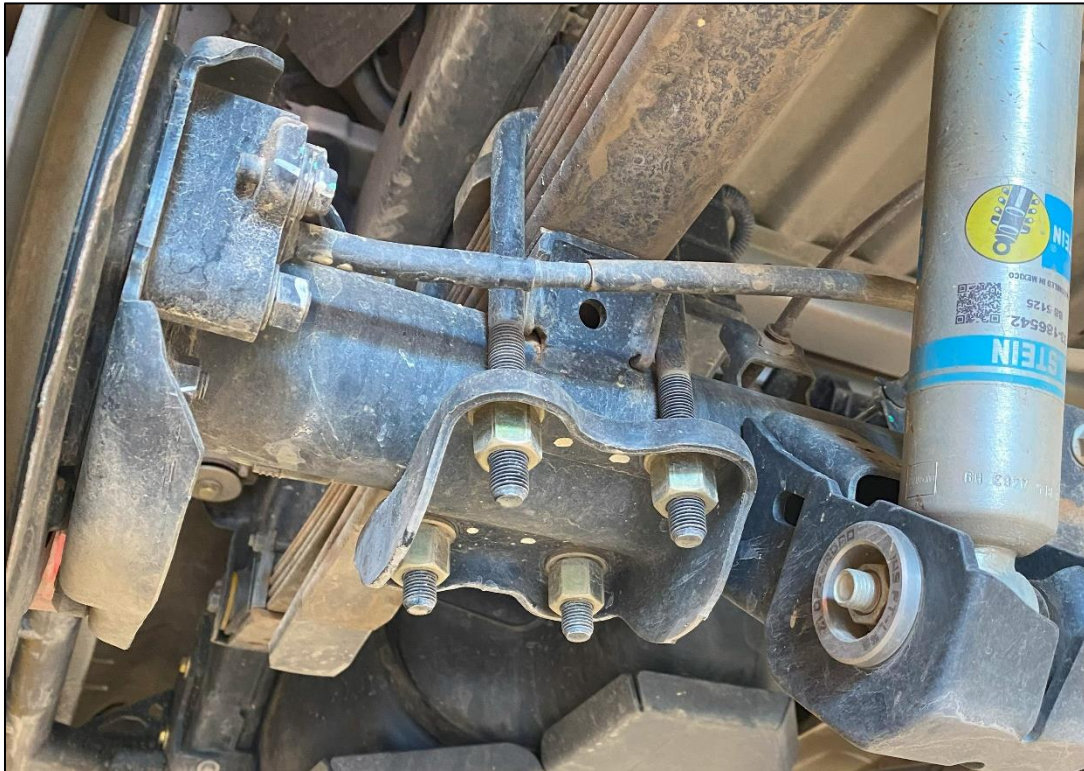
- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Only operate drivetrain in safe space and well-ventilated areas.

## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Off-Road Frontier U-Bolt Flip Kit and verify that ALL necessary hardware is present.

## **PROCEDURE:**

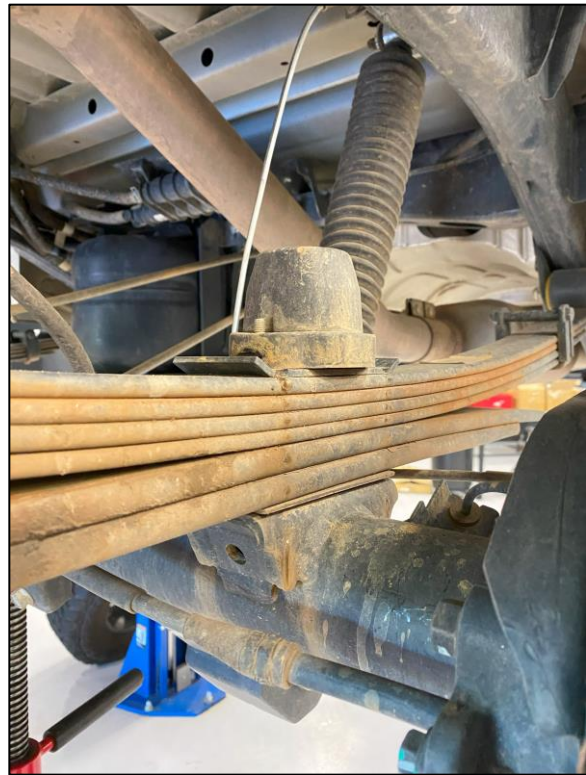
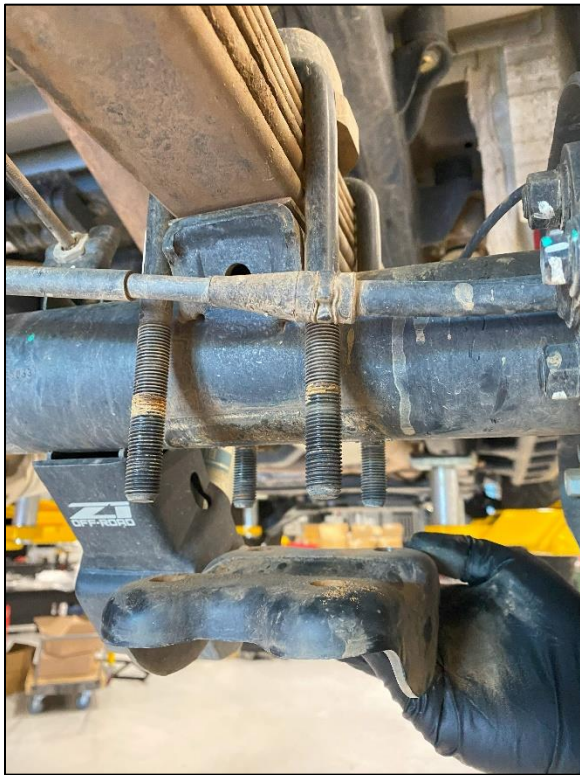
1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. This installation can be done on the ground, or on Jack Stands. Remove the Rear Wheels and support the vehicle with jack stands if desired.
3. Starting on either side of the vehicle, support the rear axle of the vehicle.
4. Remove the (4) four bolts that secure the U-Bolts to the Leaf Springs. *Figure 1.*



*Figure 1*

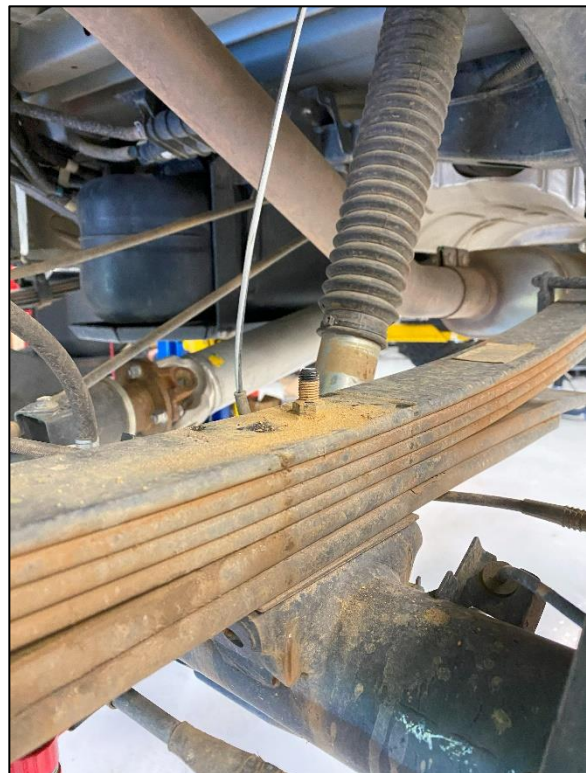


5. Remove the U-Bolt Plate and U-Bolts from the Leaf Springs. *Figure 2.*



*Figure 2*

6. If you have a Bump Stop installed on the Leaf Springs, remove the Bump Stop. An OE Position Bump Stop must be used with this kit. *Figure 3.*



*Figure 3*



7. Locate (1) one Leaf Spring Plate, (2) two U-Bolts, and (4) four M14 x 1.5 Flanged Lock Nuts. Place the Leaf Spring Plate on the top of the Leaf Springs.
8. Using the (2) two U-Bolts and M14 Hardware, place the U-Bolt Around the bottom of the axle and up through the Leaf Spring Plate. Loosely secure the U-Bolts with the M14 nuts. *Figure 4.*



*Figure 4*

9. Evenly tighten the M14 Nuts down to not bend the U-Bolts. Torque to **54 ft-lbs.** *Figure 5.*



*Figure 5*

10. Repeat *Steps 3-9* on the other side of the vehicle.
11. Reinstall wheels, and lower vehicle from jack stands.
12. After driving the vehicle for ~100 Miles, retorque the U-Bolts to **54 ft-lbs**.

**END**

**Additional Technical Support:**  
Contact Z1 Off-Road at [info@z1offroad.com](mailto:info@z1offroad.com)  
Or call 678-839-8019 between 9am and 6pm ET