

Z1 OFF-ROAD TITAN SWAP INSTALLATION GUIDELINES



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 Titan Swap, consult with a Professional Mechanic or contact Z1 Off-Road for more information.

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets (up to 21mm)
- Assorted Metric Wrenches (up to 21mm)
- 32mm Socket
- Big Impact Gun
- Torque Wrench
- Hammer

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.

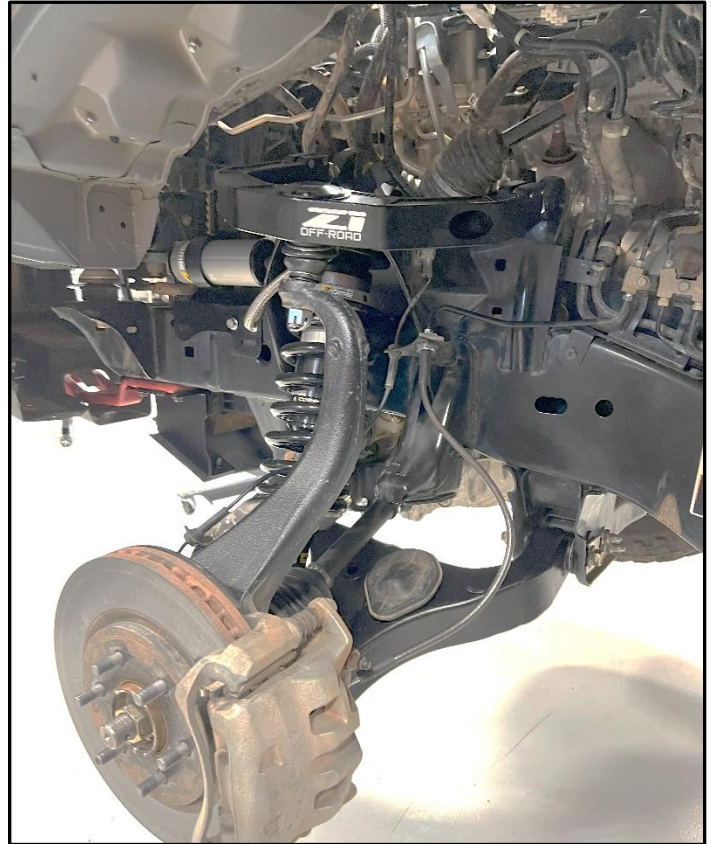
BEFORE YOU BEGIN:

Remove contents from the Z1 Off-Road Titan Swap 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. Loosen lug nuts on front wheels.
3. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
4. Remove front lug nuts and wheels.
5. Fully remove OE brake lines.
6. Install new extended Z1 stainless steel brake lines ([install guide](#)).
7. Remove calipers and rotors.
8. Disconnect wheel speed sensor from knuckle
9. Remove both inner and outer tie rod
10. Remove sway bar and end links
11. Remove strut assembly
12. Remove upper control arm
13. Remove axles
14. Remove lower control arm
15. Install titan lower to frame and knuckle with the offset eccentric bolt lockout kit ([install guide](#))

16. Install larger axles into differential and knuckle
17. Install Z1 Titan upper control arm to frame and knuckle ([install guide](#)) or OE upper control arm to frame and knuckle. Ignore step #16 in that guide and set the arm's length to XXmm.
18. Install new strut assemblies and lift spacers if applicable.
19. Install new outer and inner tie rods
20. Reconnect wheel speed sensor to knuckle/axles and route the wiring harness.



21. Reinstall OE brake rotors and calipers.
22. Bleed the brakes if not completed earlier.
23. Reinstall wheels and lug nuts.
24. Properly lower vehicle from jack and jackstands.
25. Torque lug nuts to 98ft-lbs.

END

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