

# Z1 TITAN EXHAUST INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2005-2015	Nissan Titan
2016+	Nissan Titan

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

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Front Section Pipe
2	1	Crossover Pipe
3	1	Z1 Muffler and Mid Pipe
4	1	Rear Pipe
5	2	Tip (Optional)
6	5	Exhaust Clamp
7	2	Exhaust Gasket

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets (up to 17mm)
- Assorted Metric Wrenches (up to 17mm)
- Rust Penetrating Fluid

## **SAFETY REQUIREMENTS:**

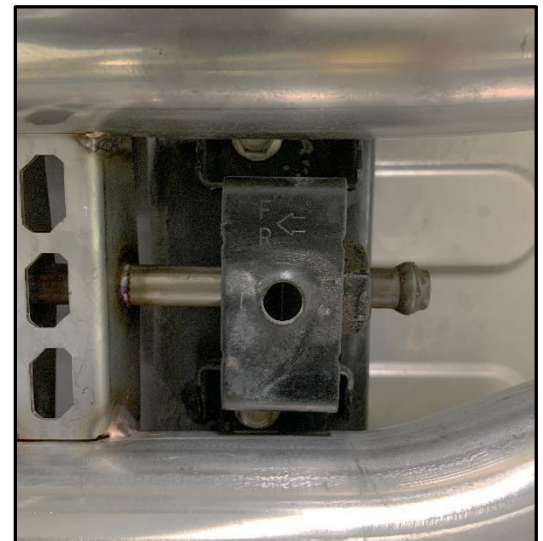
- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Always turn the ignition 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 Exhaust 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. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
3. Remove old exhaust components. It is recommended to spray some rust penetrating fluid on the old exhaust fasteners ~30 minutes before removal.
4. If you unbolt the (2) front exhaust hanger mounts from the vehicle, rather than removing the hangers from the rubber mounts, make sure to reinstall them in the correct orientation. There is an arrow on the bottom of the hanger mount that should point towards the front of the vehicle. Picture at right is shown with the hanger mount in the correct orientation.

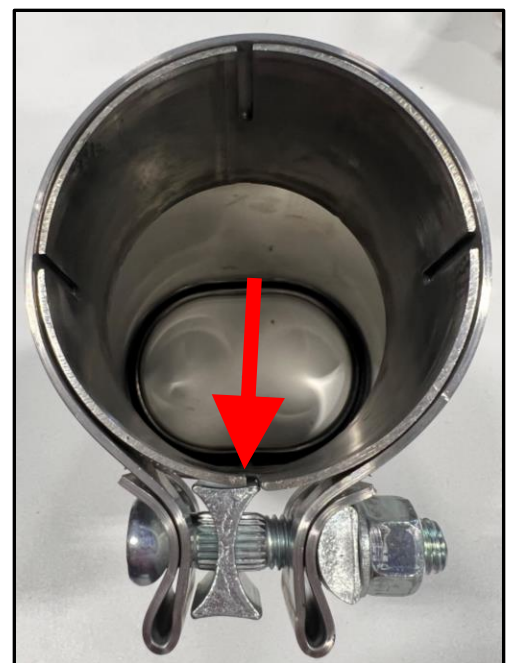


5. Locate new exhaust components and hardware/gaskets.
6. Orient new exhaust components into location under vehicle. Place bolts through flange mounting holes and loosely secure with hex nut. Use the diagram below as reference for orientation of each pipe



Note: Be sure to include gaskets between each exhaust flange connection.

7. It is recommended to hold the tips in the correct location prior to tightening all the hardware to prevent the exhaust from sagging. Have a buddy hold the tips up or rest them on a jack at the proper height.
8. While holding the Z1 flanges centered, tighten the nuts at the catalytic converters until they are snug but not fully tight (as shown below).
9. Next fully tighten the clamp connecting the crossover pipe and merge pipe. The clamp is circled in the diagram above.
10. Then go back and fully tighten the nuts connecting the catalytic converters to the Z1 exhaust.
11. Then working front to back after the merge collector, tighten all clamps.
12. If applicable, position exhaust tips onto exhaust end with supplied clamps. Make sure the exhaust clamps don't get caught up on one of the expansion joints as shown in the picture at right.
13. Tighten the clamps on the tips. They take a lot of tightening to fully close to prevent movement. After initial tightening, try to rotate or wiggle the tailpipe/tip, if there is any movement tighten them some more.
14. Properly lower vehicle from jack stands.
15. Start vehicle. While at idle, check for leaks or faulty operation of exhaust components.
16. Perform a final test drive of vehicle.



**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