

Z1 XTERRA/FRONTIER EXHAUST INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2005-2015	Nissan Xterra
2005+	Nissan Frontier

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

PARTS INCLUDED:

Item	Quantity	Description
1	1	"Y" Merge Pipe
2	1	Crossover Pipe
3	1	Z1 Muffler
4	1	Mid-Pipe
5	1	Rear Pipe
6	1	Tip (Optional)
7	4	Exhaust Clamp
8	2	Exhaust Gasket
LONG BED		
9	1	Pipe Extension
10	1	3" Clamp

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 Xterra/Frontier 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. Raise and support the vehicle with a jack and jack stands.
3. Remove the old Exhaust Components. We recommend spraying Rust Penetrating Fluid on the old Exhaust Fasteners ~30 minutes before removal. *Figure 1.*

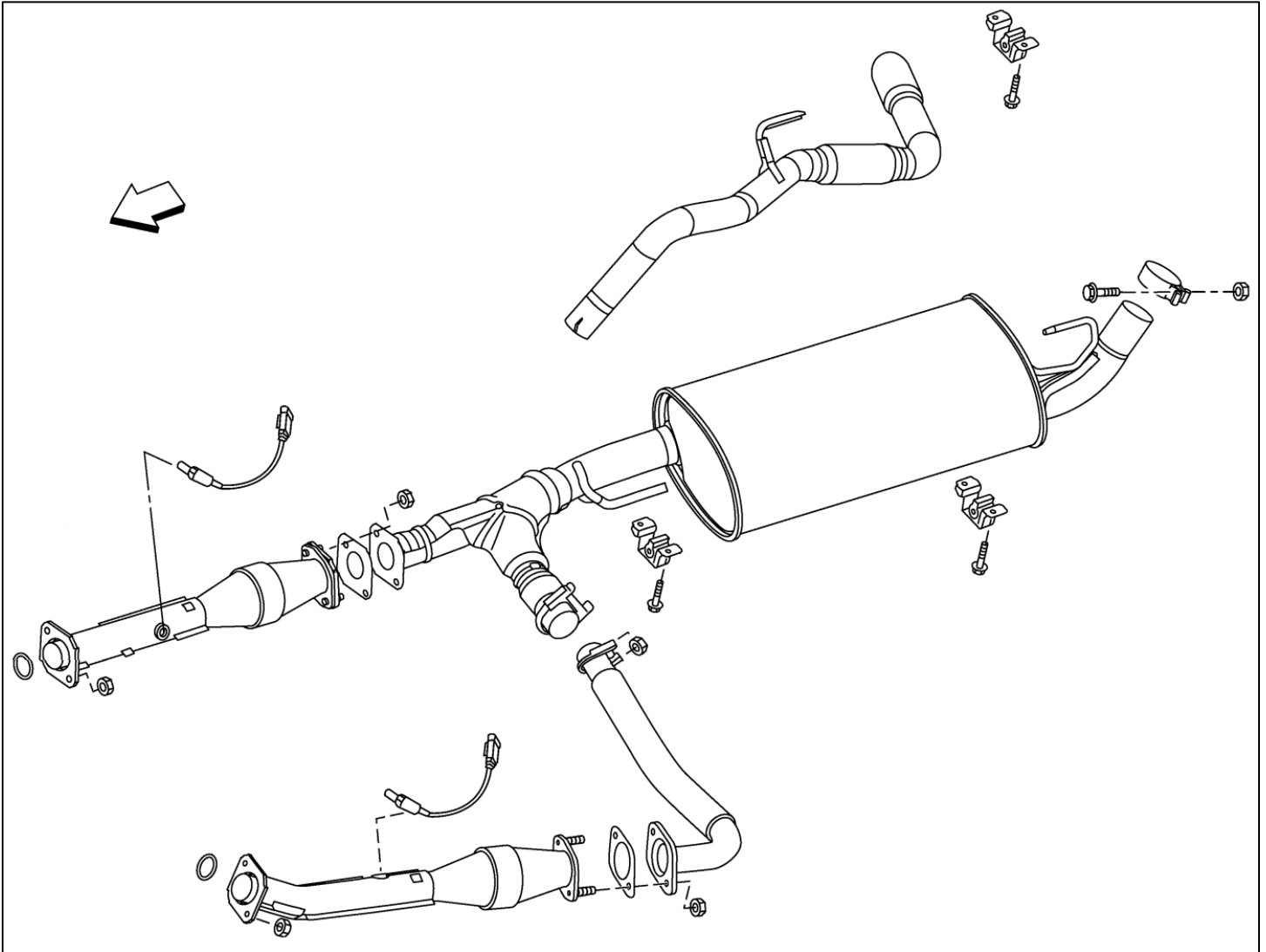


Figure 1

4. Locate all new Exhaust Components and Hardware/Gaskets. Orient the Exhaust Components into position under the vehicle, with an Exhaust Gasket between each Exhaust Flange. Place the bolts through each Mounting Flange and loosely secure with a hex nut on the other side. Use *Figure 2* below for a diagram of Exhaust orientation.

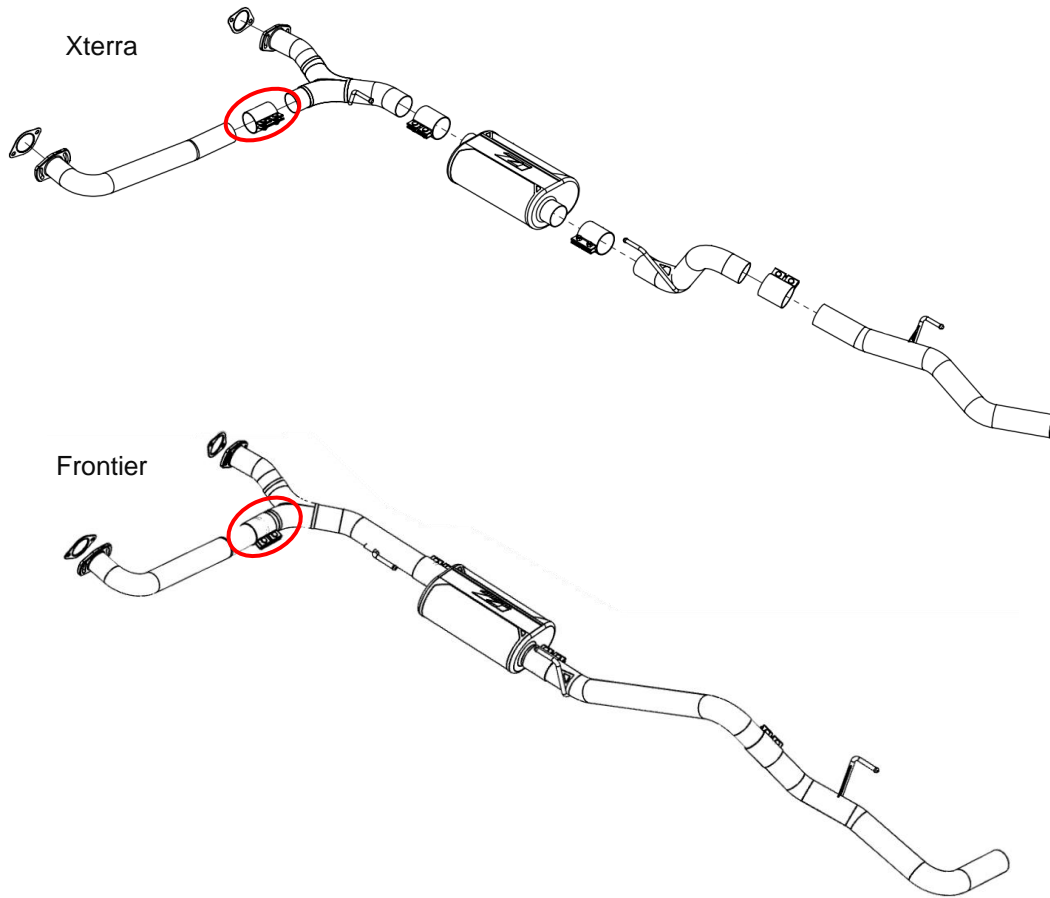


Figure 2

NOTE: If you have a Long Bed Frontier, position the Pipe Extension and 3" Clamp between the Merge Pipe and the Muffler. *Figure 3.*

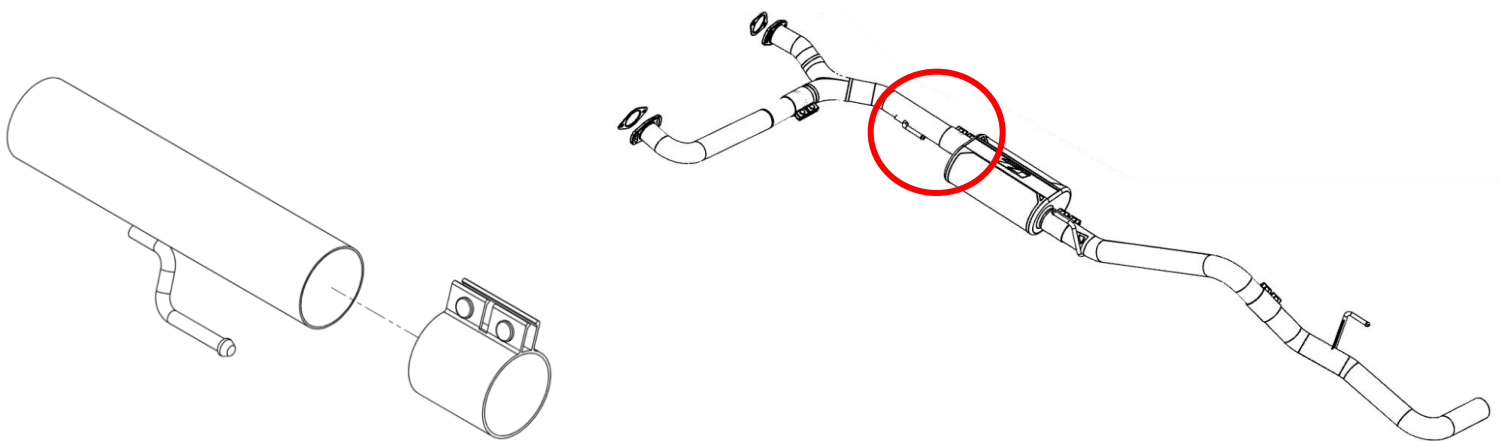


Figure 3

5. Holding the Z1 Flanges up to the Catalytic Converters, tighten the nuts from the Flange to Catalytic Converter, but do not fully tighten yet. *Figure 4.*



Figure 4

6. Fully tighten the Clamp connecting the Crossover Pipe and the Merge Pipe. Torque to **32 ft-lbs.**
7. Torque the Nuts connecting the Catalytic Converters to Z1 Exhaust to **43 ft-lbs.**
8. Working from the Merge Collector to the back of the vehicle, tighten all Exhaust Clamps. Torque to **32 ft-lbs.**

END

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