



**AMERICAN
THUNDER**

409S, Stainless Steel

Installation Instructions for:
SYSTEM #817485
2004-2012 NISSAN TITAN
5.6L V8 ENGINE • ALL EXCEPT CREW CAB LONG BED

04/03/12

Removal:

- 1) To make the removal of the stock system easier, unbolt tailpipe at the flanged connection at the rear of the muffler. Slide the tailpipe backwards to remove it from the muffler and then forward to remove from the rear rubber hanger.
- 2) Support the muffler with a stand and unbolt the flanged connections behind the catalytic converters. (Save the nuts, bolts and metal gaskets for the installation.) It will be necessary to take a 12mm socket and unbolt the hanger bracket from the frame that holds the head pipe and muffler assembly up (save bracket and bolts, you will reinstall with new system). Remove muffler and set aside.

Installation:

- 1) Before installing anything, prep the clamps supplied in the hardware kit by removing the nuts, and applying a thick lubricant such as white grease or anti-seize to the threads.
- 2) Reinstall the hanger bracket that you unbolted from the frame. Make sure the arrow on bracket is pointing forward when you slide it on hanger rod and bolt it back to the frame.
- 3) Take the left head pipe **#16478S** and right head pipe assembly **#16473S** and slide them together (make sure you slide a clamp on pipes before sliding the two together). Lift the assembly up and bolt the flanges together (make sure you put the metal gaskets between the flanges first) using the stock nuts and bolts. Tighten the clamp on the slip-fit connection just enough to hold in position.
- 4) Note: on some models the factory hanger referred to in step two will not line up properly and will have to be replaced with the new hanger bracket **#383HA** and rubber hanger **#HA168** that are provided in the hardware kit.
- 5) Take a 3" clamp and slide it on the inlet of the muffler. Slide muffler inlet onto the back of the head pipe assembly and temporarily support with a stand. Tighten clamp down just enough to hold in position, but still allow for adjustment. Install a 2-1/2" clamp onto each of the muffler outlets.
- 6) Take the right tailpipe **#16475S** and place it over the axle. Slide the hanger rod on the pipe into the stock hanger mount on the frame. Slide the other end of the pipe into the outlet of the muffler. Tighten clamp enough to hold, but still allow for adjustment.

- 7) Locate a large hole in the frame (both sides of frame rail) on the driver's side at the rear of the vehicle next to spare tire. Install the left side frame hanger **#227HA** to that hole using the 3/8"x4" bolt, washers and nut. Use **#HA226** on the inside of the frame as a big washer so the bolt doesn't fall in the frame. The frame hanger should mount on the outside of the frame and the hanger rod should be pointing towards the spare tire. Once securely fastened, slide rubber hanger **#HA168** onto the hanger rod of the frame hanger.
- 8) Place the front section of left tailpipe **#16474S** into the left side outlet of the muffler. Slide the hanger on the pipe into the stock rubber hanger at the back of the muffler. Tighten the clamp just enough to hold in position.
- 9) Take the rear section of the left tailpipe **#16476S** and slide a 2-1/2" clamp over the end of the pipe. Maneuver the tailpipe up into place behind the rear end and slide onto the back of the front section installed in Step 8. Slide the hanger rod on the pipe into the rubber mount you installed on the frame in Step 7. Tighten the clamp enough to hold, but still allow for adjustment.
- 10) Slide either the side exit pipes **#16317S** or the rear exit pipes **#16397S** onto the ends of both over-axle pipes. Place a 2-1/2" clamp onto these slip-fit connections and tighten enough to hold, but still allow for adjustment. Place the two stainless tips **#ST396** onto the exit pipes and tighten the clamps enough to hold in place, but still allow for adjustment. Rotate the exit pipe and tip to the desired distance from the fender or bumper so that the angle cut on the tips are in the desired location.
- 11) Adjust the position of all muffler, pipes and tips to provide a satisfactory fit. Maintain a minimum of 3/4" clearance between the Flowmaster system, the drivetrain and chassis components, while also keeping suspension travel and vibration in mind.
- 12) On the left side of the rear axle there is small black wire that runs up to the frame above it. Use the plastic zip tie included in the hardware kit to fasten the wire off to the side to keep it away from the new exhaust pipe.
- 13) Tighten down all clamped connections securely. After the system is secure, slide the 7/16" hanger keepers onto the end of the hangers at the rear of the vehicle on the driver's side. This will prevent the hangers from slipping out of the rubber mounts.
- 14) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections. If you live in a geographical area that has harsh winters or sees a great deal of precipitation, the use of high temperature paint over the welded areas can help to prevent surface rust and premature corrosion.

PACKING LIST

| <u>Qty</u> | <u>Description</u> | <u>Part#</u> |
|------------|-----------------------------|--------------|
| 1 | Left head pipe assembly | 16478S |
| 1 | Right head pipe assembly | 16473S |
| 1 | Muffler | 8530702-Z |
| 1 | Left front section tailpipe | 16474S |
| 1 | Left rear section tailpipe | 16476S |
| 1 | Right tailpipe | 16475S |
| 2 | Side exit pipes | 16317S |
| 2 | Rear exit pipes | 16397S |
| 2 | Stainless tips | ST396 |
| 1 | Parts kit | PK488 |
| 6 | 2-1/2" clamp | MC250BS |
| 1 | 3" clamp | MC300BS |
| 2 | Rubber hanger | HA168 |
| 1 | Frame hanger | 227HA |
| 1 | Hanger Assembly | 383HA |
| 1 | Back up plate | HA226 |
| 1 | 3/8" Nut | HW103 |
| 1 | 3/8"x 4" Bolt | HW220 |
| 2 | 3/8" Flat washer | HW303 |
| 1 | 3/8" Split washer | HW309 |
| 2 | 7/16" hanger keepers | HW502 |
| 1 | 8 1/2" Nylon cable tie | HW504 |



Installation diagram for:
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