



## Snow Performance LS Fuel Rails



**Part# SNF-LSRAILS** Fit LS1, LS2, LS3, LS6, L99, L92, LQ4, TBSS, GEN4 Truck, and Fast LSXR intake manifolds.

**NOTE:** Depending on the injectors used, injector spacers and clips may be required.

**Includes:**

- Two Billet Fuel Rails
- Four 1/8-NPT Plugs
- Three 8AN ORB Inlet/Outlet Fittings
- One 8AN ORB Plug fitting
- Stainless Steel Mounting Brackets (Specified by application)

**OPTIONAL ACCESSORIES SOLD SEPERATELY:**

**Part# 16373** - 3/8 to 8AN fuel rail adapter. Required when directly connecting Snow Performance fuel rails to GM factory fuel line.

**Part# 16112** - 6AN x 1/8 NPT straight fitting to adapt from the rails to a 6AN fed Nitrous System.

**Part# 16109** - 4AN x 1/8 NPT straight fitting to adapt from the rails to a 4AN fed Nitrous System.

**Part# SNF-20010** - Snow Performance 0-100 PSI Fuel Pressure Gauge.

**SPECIALTY TOOL REQUIRED:**

GM 3/8" Quick-Connect Release Tool to disconnect the factory fuel line (these are inexpensive and available at the local auto parts store).

## WARNING:

- Installation should be performed by a qualified mechanic.
- Read all instructions and warnings before beginning installation.
- Installation of this product involves the handling of fuel.
- Make certain there are no open flames in the area.
- Use eye protection during installation to protect against fuel spray.

## INSTALLATION INSTRUCTIONS:

1. After the engine has cooled, disconnect the negative battery cable.
2. Remove any and all engine/intake covers that may hinder the installation. Clean away any dirt or debris near fuel rail connections and injectors. Disconnect the electrical connector at each injector. Note that the injector harness is specific to injector order. If the harness is to be removed, it must be reinstated on the correct side to each correlating injector.
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4. Relieve all pressure from the fuel system(refer to the vehicle service manual for procedures and precautions for this step).
5. Disconnect the fuel lines from the OEM fuel rails. A 3/8" quick-connect tool will be required (available at your local auto parts store). Use clean shop towels to catch any fuel that may escape as well as to prevent any contaminants from entering the fuel system.
6. Disconnect any and all wiring, vacuum lines, and throttle body components that will interfere with the installation process.
7. Place clean shop towels around the injectors to catch any fuel that escapes. Gently pull up on the original rail assembly. The injectors are sealed on both ends with O-rings. It is recommended the injectors remain sealed to the fuel rail during removal to prevent large amounts of fuel from escaping onto the engine.
8. Remove the fuel rails and related hardware.
9. Remove injector retaining clips and the injectors from the OEM fuel rails. Pull straight down on the injectors while gently twisting them left and right to release them from the OEM fuel rails.
10. Lubricate O-rings with clean oil. Install the -8 O-ring fittings onto each end of the rails before installing the Snow Performance rails on the intake.



11. Install the appropriate brackets onto the fuel rails using the supplied 8-32 Machine Screws.

**Note:** 0Blue Loctite is recommended when installing all fittings and hardware to ensure a tight and reliable seal.



**Note:** Rail bracket placement is subject to vary by application.



- **Use brackets SNF-30060 for LSXR manifolds**  
(60mm Injectors)
- **Use brackets SNF-30034 for LSXR manifolds**  
(34mm Injectors)
- **Use brackets SNF-30926 for L92 manifolds**  
(34mm injectors will require 26mm injector spacers, clips, and o-rings - Part# SNF- 40026, SNF-40079, and SNF-40018)
- **Use brackets SNF-30460 for LQ4 manifolds**  
(60mm Injectors, 34mm injectors will require 26mm injector spacers, clips, and o-rings -Part # SNF-40026, SNF-40079, and SNF-40018)
- **Use brackets SNF-30340 for TBSS manifolds**  
(34mm Injectors)
- **Use brackets SNF-30160 for LS1**  
(60mm Inectors)
- **Use brackets SNF-30134 for LS1 manifolds**  
(30mm Injectors)
- **Use brackets SNF-30334 for LS3 manifolds**  
(34mm Injectors)
- **Use brackets SNF-30348 for LS3 manifolds**  
(48mm Injectors, 34mm injectors will require 1/8" injector spacers on the intake side to ensure a proper seal is made - Part# SNF- 40018)

12. Plug any of the four 1/8" NPT ports on the rail you will not be using.

**Note:** 0Blue Loctite is recommended when installing all fittings and hardware to ensure a tight and reliable seal.



13. Inspect the injectors and verify they are free of any and all dirt or debris. Inspect each injector O-ring for cracks, nicks, cuts, etc.

14. Lubricate all O-rings, intake injector bores, and fuel rail bores for ease of installation. Insert each injector into the fuel injector bore of the fuel rails.

15. Install each of the fuel rail/injector assemblies onto the intake manifold. Make certain each of the O-rings is seated at both ends and that none of the O-rings were cut.

16. Reinstall the four rail mounting bolts. Add a grounding strap for each fuel rail from one of the intake bolts to a rail mounting bolt.

17. Reinstall any intake bolts that were removed (refer to vehicle service manual for torque values and pattern for this step).

18. Make certain any spilled gasoline and shop towels are removed.

19. Reconnect any wiring, vacuum lines, and throttle body components that were removed.

20. Reconnect the battery and turn the ignition to the ON position but do not start the vehicle. To purge air and build fuel pressure, cycle the ignition from off to on several times, waiting at least 10 seconds with the ignition in the off position each time.

21. Start the engine and inspect for any fuel leaks around the fuel injectors, fuel rail fittings, fuel lines, etc. Take a brief test drive and check again for any fuel leaks.

**NOTE: 1997-98 LS1 applications utilizing a factory supply and return fuel line will require the addition of a fuel pressure regulator when installing Snow Performance fuel rails.**

