



# INSTALLATION INSTRUCTIONS

## FUEL RAIL FOR NISSAN SR20DET S13

Customer Support: [info@radiumauto.com](mailto:info@radiumauto.com)

Document# 19-0222

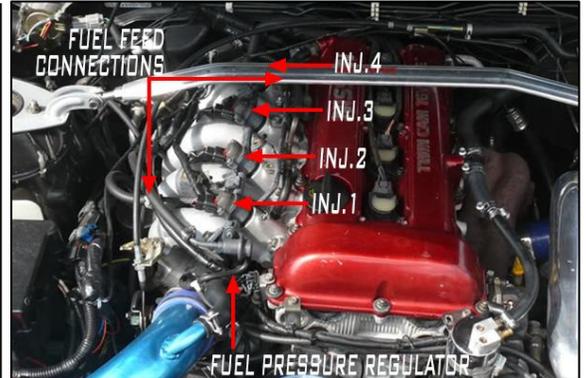
**WARNING: DO NOT EXPOSE WORK AREA TO ANY SPARKS OR FIRE. DO NOT SMOKE WHILE OPERATING ON THE FUEL SYSTEM. CLEAN UP ALL FUEL SPILLS IMMEDIATELY. WORK IN A WELL VENTILATED AREA.**

1. Remove the fuel pump fuse. Start engine and allow to stall. This relieves fuel pressure in the fuel lines. Replace the fuel pump fuse and disconnect the battery.

Unplug all injectors and disconnect injector harness from the fuel rail.

Carefully pull vacuum tubing off the fuel pressure regulator (FPR).

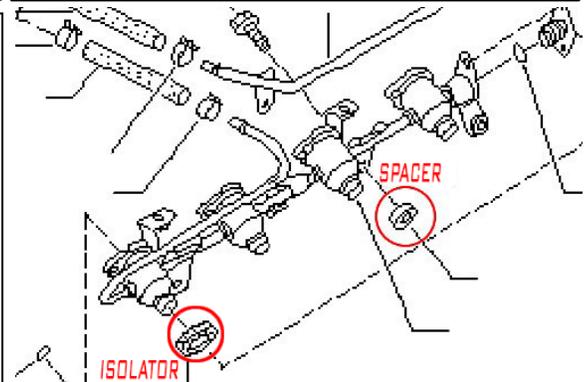
Release and pull back clamps on FPR return hose and fuel feed hose. There are 2 hard pipe feed line connections, as shown. Gently disconnect fuel hoses and catch all spilled fuel.



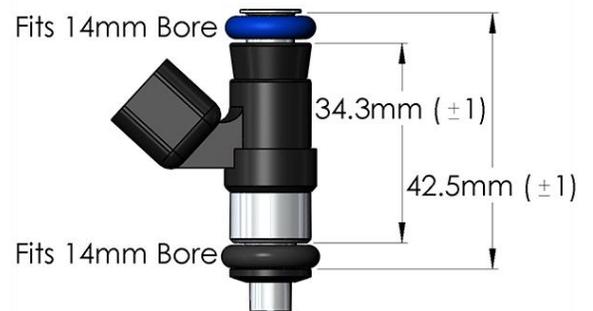
2. Use a 12mm socket wrench to remove the M8 fuel rail mounting bolts.

Next, gently lift fuel rail up just enough to expose the 4 rubber fuel injector isolator cushions. They will either be stuck around the lower portion of the injector or still in the intake manifold injector ports. They will NOT be reused. Find the black plastic spacers underneath each fuel rail tab (3 will be reused).

Remove the fuel rail from the vehicle. It will contain fuel. Drain excess fuel into a safe container for disposal.



3. The 20-0558 fuel rail was designed around specific a fuel injector height and O-ring dimensions. Reference the fuel rail product page or contact [info@radiumauto.com](mailto:info@radiumauto.com) for more information.



4. Apply a medium strength thread locker to the threads of the six provided M5 bolts. Referencing the picture, install the 3 mounting brackets to the fuel rail using a 4mm Allen wrench (Torque=11Nm).

If applicable, transfer the OEM fuel pressure regulator to the Radium FPR adapter. Note: Depending on the vehicle, the FPR might need to be installed onto the rear port for hood clearance.



5. Thoroughly clean out any dirt or debris found in the intake manifold injector seat bores.

Next, **lubricate the Radium injector seat O-rings with engine oil.**

Press the Radium injector seats down firmly into the 4 intake manifold injector ports until fully seated. If necessary, use a small rubber mallet.

**Lubricate each fuel injector's top and bottom O-rings with engine oil.** Fully insert the injectors into the Radium fuel rail bores.



6. Position the fuel rail in place making sure all injectors are lined up properly in the Radium injector seats. Next, press firmly on the fuel rail to seat the injectors' lower O-rings.

Once everything is positioned correctly, place the black OEM spacers under the 3 mounting tabs. Next, install 3 of the OEM Nissan M8 bolts and tighten using a 12mm socket wrench.

**CHECK HOOD CLEARANCE BEFORE FINALIZING THE PLUMBING AND INSTALLATION.**



7. If Nissan wiring harness adapters were included with the purchase of the top feed fuel injectors, install them now per the instructions provided by the manufacturer.

Note: wiring polarity on each injector does not matter.



8. Reminder: The Radium fuel rail does not include a feed supply hose as most applications require custom fuel hoses.

After everything is reinstalled, cycle the key a few times (without starting engine). This allows the fuel pump to prime the system. **CHECK FOR LEAKS!** If no leaks are found, start the engine and check again while the engine is running.

Installation complete.

