

# INSTALLATION INSTRUCTIONS

## FUEL RAIL FOR NISSAN RB25DET NEO ENGINE

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Document# 19-0234

**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. *This fuel rail is not compatible with the RB25DET non NEO intake which uses side feed injectors. However, Radium manufactures a fuel rail specific to that engine.*

If accessible, refer to the factory service manual for disassembly questions. To relieve fuel pressure, temporarily disconnect the fuel pump connector or remove the fuel pump fuse. Start and idle the vehicle and allow the engine to stall. Turn the ignition OFF and remove the key. Allow the engine to cool down.

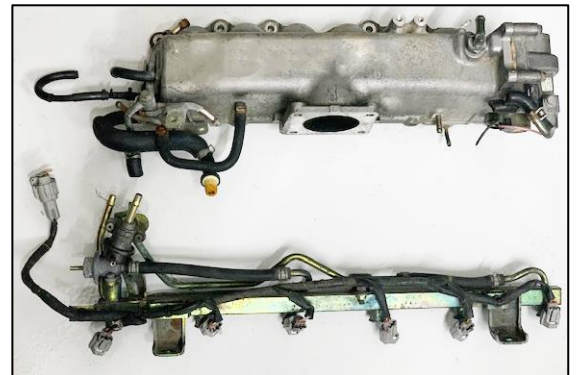
Using a 10mm wrench, disconnect the (-) negative terminal.



2. Remove the upper intake manifold plenum and all associated components from the engine. Unplug the 6 fuel injector connectors. Remove the fuel rail mounting bolts (these will NOT be reused).

Carefully pull the fuel rail assembly away from the cylinder head to dislodge. The fuel injectors will likely remain attached to the fuel rail. Place on a workbench and catch any fuel that drips out. Drain any excess fuel into a safe container for disposal.

One by one, carefully unclip the fuel injectors from the OEM fuel rail. The OEM fuel injector locking clips can be reused.



3. Properly orient the provided mounting feet to the fuel rail threaded holes. As shown, secure using the supplied M4 socket head bolts and a 3mm Allen wrench.

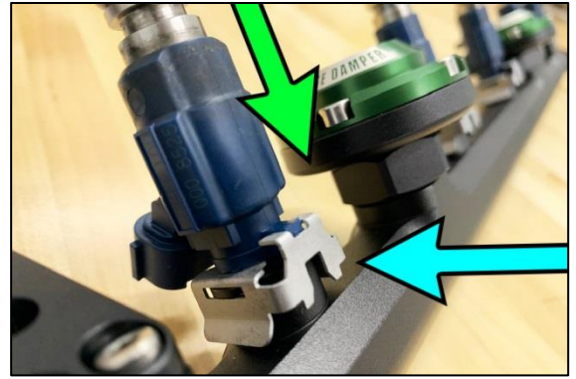


4. Lubricate all adapter fitting O-rings (not included) and secure to the four 8AN ORB fuel rail ports.

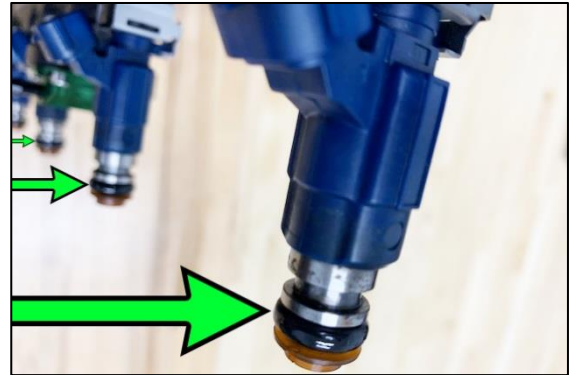
After lubricating the top fuel injector O-rings, fully insert into the Radium injector ports.



5. If reusing stock or OEM compatible fuel injectors, slide the OEM clips on locking the injectors to the fuel rail.



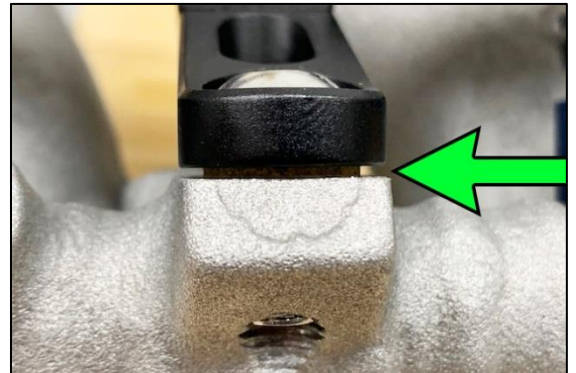
6. Lubricate the bottom fuel injector O-rings.



7. Thoroughly clean out any dirt or debris found in the cylinder head ports with oil.  
Position the fuel rail assembly over the intake manifold. Press down until the injectors slide into the intake manifold ports.



8. As shown, slide a phenolic washer under each mounting foot.



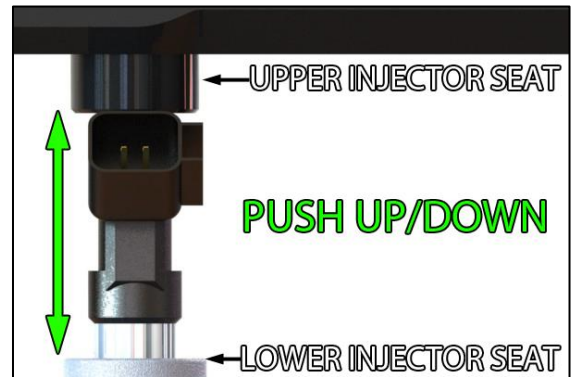
9. As shown, install a phenolic washer under each mounting bolt head. Each pair of phenolic washers thermally isolate the fuel rail from the engine.

Secure the fuel rail to the intake manifold using the provided button head bolts and a 5mm Allen Wrench.



10. As a test, push the fuel injectors downward until they bottom out. Now inspect the injectors' upper O-rings and confirm they are still inserted into the fuel rail injector bores. Do not pressurize the fuel system until the proper height is achieved.

Orientate the fuel injectors such that the electrical connectors do not experience any interference with the surrounding area. Plug in each of the injector connectors.



11. Reminder: This fuel rail does not include a replacement fuel feed or return hose. Check with your installer/tuner for appropriate hose plumbing.

After everything is reinstalled in a reverse order, 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 for leaks again while the engine is running.

**Installation Complete**

