

# INSTALLATION INSTRUCTIONS TOP FEED FUEL RAIL

MKIV Toyota Supra/Aristo (2JZ-GTE)

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#### **CAUTION**

Only a qualified technician following applicable safety procedures should perform the installation of this product.

One must have knowledge in repair and modification of fuel systems and general vehicle modifications to install this product.

#### Gasoline and other fuels are flammable and can be explosive.

Only install in a well-ventilated location to minimize buildup of fuel vapors.

No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended.

Proper eye and personal protection is required at all times during installation.

#### WARNING

The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure.

Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for sale or use on emissions controlled motor vehicles. Consult local, state, and federal laws.

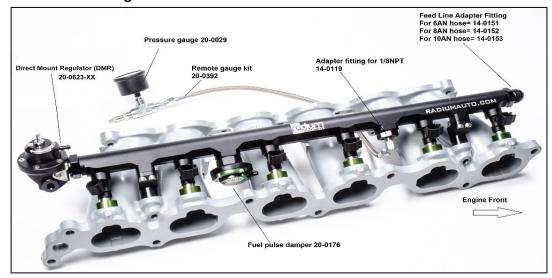
| STEP | TOOLS NEEDED | rstem components may not be legal for sale or use on emissions controlled motor vehicles. Consul  INSTRUCTIONS  | РНОТО   |
|------|--------------|---|---|
| 1    | Oil          | Completely remove the factory fuel rail and thoroughly clean the injector holes on the intake manifold.  RETAIN THE TWO OEM FUEL RAIL PLASTIC MOUNTING SPACERS AND MOUNTING BOLTS! These will be reused. If the spacers are not present, they can be purchased from Toyota using part number 90561-08009.  Install the included O-rings on the Radium injector seats and lubricate them.  |   |
| 2    |              | Install all six injector seats into the holes on the intake manifold. Press firmly until fully seated.  | RIO LE  |
| 3    |              | Determine what injector height will be used. The fuel rail kit is compatible with 34 or 48 mm height injectors (approximate measured distance between the O-ring grooves).  The fuel inejctors must have 14mm upper and lower O-rings.  | "34mm" "48mm"   |
| 4    |              | In some cases, the installer may be trying to use aftermarket fuel injectors that have adapter hats installed on them. These are used to change an injecors installation height, and/or reduce the O-ring size, but do not provide any functional purpose.  If proper fitment is not achieved with the caps installed, the caps can be removed from the injectors. In most cases this will result in having a 34mm height injector, which are compatible with the this fuel rail. | Remove adapter caps from injectors  Adapter Cap [not reused]  Retaining Clip [not reused] |

|   | 4mm Allen Wrench | Once the inejctor height has been determined, install the corresponding   |  |
|---|------------------|---|--|
|   | Blue Loctite     | mounting meet on to the fuel rail. Secure with the included M5 screws and some low-strength thread locking compound.  | P  |
|   |                  | Some for strength thread locking compound.  | CADILINA CURO COLORO   |
| _ |                  | The tall mounting feet are to be used with 48mm height injectors and the  | Zalon  |
| 5 |                  | short feet are to be used with 34mm height injecors.  |  |
|   |                  |   | O A  |
|   |                  |   |  |
|   |                  |   | re   |
|   | Oil              | Lubricate the fuel injector O-rings with oil and insert them into the fuel rail   |  |
|   |                  | bores. Test fit the fuel rail using the OEM plastic spacers and make sure the injectors are seating into the green injector seats correctly.                  | The state of the s |
| 6 |                  | anjectors are scatting into the green injector scatts conventy.   |  |
|   |                  | Once fitment has been verified, it is now a good time to remove the fuel rail   |  |
| 6 |                  | and install any adpaters and/or accessories into the fuel rail ports. Refer to the diagrams later in this document for details on fittings and configuration. |  |
|   |                  | Once again, check fitment after this process.   |  |
|   |                  | 7   |  |
|   |                  | 7   |  |
|   | 12mm Socket      | Position the fuel rail assembly into place for final installation. Install the  |  |
|   |                  | <b>OEM fuel rail mounting bolts and associated plastic spacers.</b> Use a thin-walled 12mm socket to tighten the fuel rail mounting bolts to 15               |  |
|   |                  | ft-lb. Due to tight clearance with the fuel rail, the socket may be slightly  |  |
| 7 |                  | angled as it engages the hex of the bolt head. Alternatively a 12mm crows   |  |
| / |                  | foot attachment can be used, or the screws can be swapped to socket head Allen type (not included).   |  |
|   |                  |   |  |
|   |                  |   |  |
|   |                  |   |  |
|   |                  | Plug in the injectors and hook up the rest of the corresponding fuel system.  Pressurize the fuel system and check for leaks and correct any that may         |  |
| 8 |                  | occur.  |  |
|   |                  |   |  |
|   |                  | INSTALLATION IS COMPLETE  |  |
|   |                  |   |  |
|   |                  |   |  |
|   |                  |   |  |
| 1 |                  |   |  |

## **Configuration Guide**

The configuration shown here is the recommended setup when using the Radium complete fuel delivery system for the MKIV Supra.

The pressure gauge can be mounted directly to the DMR, or it can be mounted remotely using the kit 20-0392



### **Additional Notes for Installing a Pressure Gauge**

If further gauge mounting options are needed, it can be mounted on the front port where the feed line connects using an in-line adapter.

For 8AN size: 14-0148-08 For 8AN size: 14-0148-08 For 10AN size: 14-0148-10

Alternatively, a pressure gauge can be installed on one of the bottom ports using a combination of NPT fittings as shown.

8AN to NPT Adapter: 14-0119 90deg Male-Female 1/8NPT Elbow: 14-0332 (x2)



