



**Billet Performance Products**

Ph: +61 7 5670 8882 Web: [www.billet.net.au](http://www.billet.net.au) Email: [enquiries@billet.net.au](mailto:enquiries@billet.net.au)  
ABN: 88 116 168 346

## INSTALLATION MANUAL

### Billet Performance Products 1JZ GTE 14mm Fuel Rail Kit

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#### ITEMS INCLUDED IN FUEL RAIL KIT

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- (1) Fuel Rail
- (2) Fuel Rail Bracket
- (2) Rail spacers for 60mm Injectors
- (6) 14mm Injector bung with O-Ring
- (2) -6 to -8 Fuel Rail Fitting
- (1) AN -6 O-Ring adaptor plug seal
- (1) -6 to -6 Fuel Rail Fitting
- (2) M6 x 12 Button Head Socket Screw
- (2) M6 Spring washer
- (2) M8 x 40 Socket Head Cap Screw
- (2) M8 x 55 Socket Head Cap Screw
- (2) M8 Flat Washer
- (2) M8 Spring Washer
- (2) Genuine ID Spacer
- (1) Silicone Grease

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#### ITEMS REQUIRED WHEN REPLACING THE FACTORY FUEL RAIL KIT

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- -6 or -8 AN Hose Fittings
- Fuel Hose for fuel feed & return line
- Aftermarket Fuel Regulator
- Aftermarket 14mm O-Ring Fuel Injectors

### PLEASE READ CAREFULLY BEFORE PROCEEDING WITH INSTALLATION

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#### PRODUCT DISCLAIMER

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- There is no warranty stated or implied due to the unusual stresses placed on competition products and/or the inability to monitor the modification, installation and use. The entire risk of quality, performance and defect is with the purchaser and not the manufacturer, distributor or retailer. Should any product(s) prove to be defective for any reason under any circumstance, the purchaser and not the manufacturer, distributor or retailer will assume financial responsibility for any consequential damages, repairs/service and any other liability.
- A Vehicle modified by the use of competition product(s) for use on public roadways may not meet local state or federal regulations. Installation and use of this competition product(s) may also affect vehicle insurance coverage. It is the purchaser's responsibility to meet and comply with regulations and policies before operating the vehicle on public roadways.
- Return of product(s) will **ONLY** be accepted if product(s) is in resalable condition. All accepted returns will be subject to a 20% restocking fee. **ABSOLUTELY NO RETURNS ON USED PRODUCTS.**
- **For technical support, please contact us via email [enquiries@billet.net.au](mailto:enquiries@billet.net.au) or call +61 7 5670 8882**

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#### WARRANT POLICY

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Billet Performance Products warranties all products to be free of defects in materials and workmanship for normal use and service for a period of 90 days from the date of retail purchase. Products returned must be inspected and determined to be defective by Billet Performance Products before any warranty credit and/or replacement is issued. Billet Performance Products' obligation under warranty shall be limited to repairing or replacing, at its discretion, any product found to be defective. The consumer will be responsible for transportation charges. Final determination of the suitability of the product(s) for the intended use is the sole responsibility of the consumer. Billet Performance Products shall not be liable for any special, direct, indirect, incidental or consequential damages that may be claimed as a result of the failure of any product, including claims of delay, loss of profits or labor. Billet Performance Products shall not be liable for any damage and/or injury to person(s) and/or property resulting from improper installation and/or misuse of any product subject to this warranty. There is no other warranties expressed and/or implied extending beyond those set forth above.

*Note: This fuel rail kit requires the removal and reinstallation of fuel system related components. If you are not familiar with the installation and/or the operation of these components then please refer this installation to a qualified professional.*

## WARNING!

- Keep open flames and/or spark away from vehicle at all times when removing and refitting fuel rail.
- Thoroughly clean your new Billet Performance Products fuel rail before installation.
- Be sure engine is off before you relieve the fuel pressure from vehicle.

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### INSTALLATION INSTRUCTIONS

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#### Step 1: Removal

1. Please refer to a factory service manual for the removal of the factory fuel rail.
2. Disconnect negative battery terminal before proceeding.
3. Clean the area around the fuel rail so that dirt cannot get into the engine.
4. Remove the fuel filter cap and undo banjo bolt on filter slightly to relieve all pressure.
5. Carefully disassemble the factory fuel rail.
  - a. Keep factory fuel rail spacers as these will need to be reused.

#### Step 2: Assembling the Billet Performance Products Fuel Rail

1. Install the -6 to -8 Fuel rail fitting supplied using a small amount of silicone grease to either end of the fuel rail (Fig 1 and 2). Install the -8 o-ring side of the fitting into the fuel rail. Be careful not to damage the thread when doing so.
2. Install either the -6 o-ring plug or -6 AN fitting using a small amount of silicone grease supplied to center of rail depending on whether a dual or single feed is intended for the application.
3. Install left & right fuel rail bracket to fuel rail.
4. Install the aftermarket fuel injectors to fuel rail using a small amount of silicone grease supplied on injector O-rings.
  - a. Aftermarket fuel injectors must be used. The Billet Performance Products fuel rail is designed for 60mm or 48mm O-ring to O-ring injectors measured from inside to inside of O-ring. If the o-ring height on the injector being installed is different to this than the appropriate adaptor must be purchased.
  - b. Make sure the fuel injectors are properly seated in the Billet Performance Products fuel rail.



#### Step 3: Installation

1. Lubricate the injector adaptor O-rings with silicone grease and install them into the intake manifold.
2. Install the Billet Performance Products fuel rail using the provided Brackets, Spacers and Bolts.
  - a. If 48mm injectors are being used the rail will install directly onto the factory spacers and the M8 x 40mm bolts will be used
  - b. If 60mm injectors are being used the rail will need the 12mm rail spacers fitted under the brackets and onto the factory spacers and the M8 x 55mm bolts will be used
  - c. Do not fully tighten the fuel rail until the fuel injectors are correctly seated into the intake manifold.
  - d. Be careful not to damage the seals in the intake manifold.
3. Tighten the mounting bolts.

- a. Do not over tighten the bolts; doing so may cause damage to the fuel rail.
4. Install the fuel pressure regulator
  - a. An aftermarket fuel pressure regulator must be installed please consult a professional for options on aftermarket fuel pressure regulators.
5. Install the fuel feed and return line. **Make sure that there is enough slack on the hoses to not place pressure on the fuel rail with engine movement.**
6. Reconnect wiring harness and all connectors. Factory Connectors may need to be changed to suit injectors.
7. Connect the negative battery terminal.
8. Turn the ignition switch to the on position for approximately two seconds and turn the ignition switch to the off position. **DO NOT ATTEMPT TO START ENGINE.**
  - a. Repeat this procedure three times, and then check all components that were removed during installation for any signs of fuel leakage.
  - b. Check all fittings for leaks**
  - c. If there are signs of leakage, you **MUST** correct the leak before proceeding.
  - d. If larger and/or aftermarket injectors are being fitted ensure vehicle ECU has been adjusted to suit before attempting to start vehicle.**
9. If there are no signs of leakage, then start engine and again check for leaks.
10. If there is no sign of leakage on final inspection, then the installation is complete.

*For more information or Technical Enquiries  
Contact Billet Performance Products on  
+61 7 5670 8882 or enquiries@billet.net.au*