Product Name: FPR

Product Description: Fuel pressure regulator

Product Number: TS-0401-1001, TS-0401-1003





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#### IMPORTANT NOTES ON YOUR FUEL PRESSURE REGULATOR

- Turbosmart accepts no responsibility whatsoever for incorrect installation of this product which is potentially hazardous and can
  cause serious engine damage or personal injury. Ensure there are no leaks in your fuel system after installation and you have
  checked fuel suitability.
- · Use fuel line that is the correct size and chemical rating for your application when fitting your FPR
- Ensure that all fuel lines are secured with suitable clamps or the correct fittings are used

#### RECOMMENDATIONS

- Turbosmart recommends that your FPR is fitted and adjusted by an appropriately qualified technician
- . Turbosmart recommends that the Air Fuel ratio is checked once the fuel pressure is set

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#### **HOW TO INSTALL YOUR FPR**

#### **TOOLS REQUIRED**

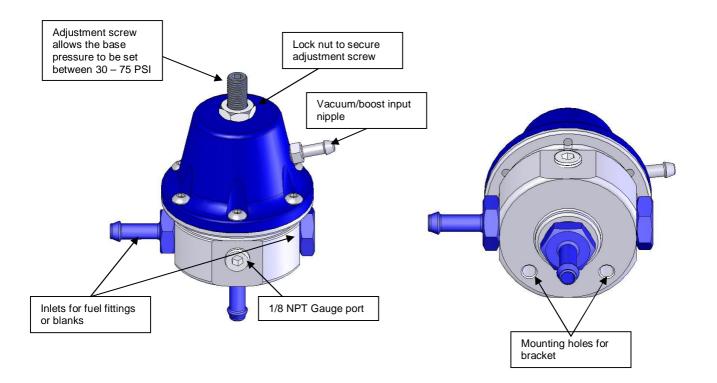
Hose cutters, spanners, pliers, 4mm and 5mm Allen keys

#### **FUEL RAIL ADAPTORS:**

Fuel rail adaptors are designed for connection of your FPR to your fuel system when your standard regulator is mounted on the fuel rail. With the standard regulator removed, install a fuel rail adaptor in place of the stock regulator and use EFI fuel hose to connect to your remotely mounted FPR.

FG-FRA-001	Fuel rail adaptor that suits engines: Mazda 13BREW (FD3S RX7 Series 6), Nissan SR20DET (S13, S14, S15 SILVIA), Nissan
	RB26DETT (BNR32, BNR33, BNR34 GTR), Nissan RB25DET (HCR32, ECR33, ER34 SKYLINE), Subaru EJ20 (GC8 - WRX before
	Bug Eye)
FG-FRA-002	Fuel rail adaptor that suits engines: Subaru EJ20 (GDA - WRX Bug Eye onwards), Toyota 2JZGTE (JZ80 SUPRA, JZS147 ARISTO),
	Toyota 4EFTE (EP STARLET), Toyota 4AGZE, Toyota 4AGE
FG-FRA-003	Fuel rail adaptor that suits engines: Mazda 13B (RX7 Series 4), Toyota 3SGTE (MR2, CELICA GT4), Toyota 1UZ-FE (Lexus/Soarer
	V8), Toyota 1JZGTE (SUPRA, CRESTA, CHASER, MARK II)
FG-FRA-004	Fuel rail adaptor that suits engines: Honda B16A (EG6 CIVIC SIR, EK4 CIVIC, CRX DEL SOL), Honda B16B (EK9 CIVIC TYPE R)
FG-FRA-005	Fuel rail adaptor that suits engines: Mitsubishi 4G63 (Evo 4, 5, 6, 7, 8)
FG-FRA-006	Fuel rail adaptor that suits engines: Ford XR6 turbo, Audi/VW 1.8L turbo

## FPR ASSEMBLY VIEW:



#### FITTING INSTRUCTIONS:

# 1. Determine your current Base fuel pressure.

Turbosmart recommends determining your current base fuel pressure with your existing regulator. This should be done prior to installation of the FPR to give a reference base pressure to initially tune the base pressure to. This base pressure measurement should be made with a suitable fuel pressure gauge at idle with the vacuum hose removed. Ensure the vacuum hose has been removed and is blocked when taking the reading and the reference nipple is left open to atmosphere.

## 3. Remove your existing regulator

With your engine cool and ignition off you can now carefully remove the fuel lines to and from you existing regulator. You should take care with these lines to ensure no debris enters your fuel system.

Disconnect the vacuum line and remove the existing regulator.

#### **IMPORTANT NOTE:**

If your standard fuel pressure regulator is mounted directly to your fuel rail then you may need to use an adaptor and some EFI fuel hose to connect the fuel rail to the FPR inlet port. Turbosmart supplies a range of adaptors to suit most popular makes and models (see accessory table for details).

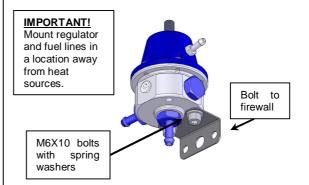
## 2. Prepare to remove your existing regulator

Your fuel system is under pressure. To relieve the pressure disconnect your fuel pump power or remove the fuel pump fuse. Crank the engine until it stops. Your fuel system should now have no stored pressure.

<u>WARNING!</u> Exercise extreme caution when loosening fuel fittings. Turbosmart recommends wearing safety glasses to protect against fuel spray and having an appropriate fire extinguisher on hand.

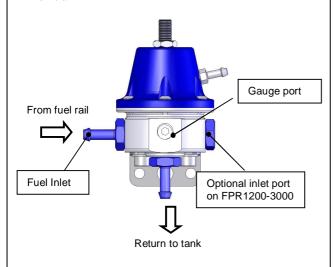
#### 4. Mount the FPR

Mount the FPR using the mounting bracket supplied. Ensure it is firmly mounted and if necessary use the bracket as a template for marking out new mounting holes. Use the spring washers supplied when bolting the FPR to the bracket.



#### 5. Connect Fuel Lines

Connect the fuel inlet and return lines in the orientation shown. If only one inlet is used block the second inlet with an blank.



### 6. Start engine and check for fuel leaks

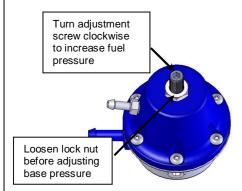
Replace the Fuel pump fuse or reconnect the fuel pump power. Start your engine and check for fuel leaks around the fittings.

CAUTION! If any leaks are evident turn the engine of immediately and tighten fittings and re-check until no leaks are present before proceeding.

WARNING! No Smoking or Naked flames in the vicinity of this installation.

### 7. Adjusting the base pressure

Before adjusting your base fuel pressure you must loosen the look put



#### 8. Adjusting the base pressure

Turning the screw clockwise will increase your base pressure and anti-clockwise will decrease base pressure. Ensure that when setting the base pressure the vacuum hose is disconnected and blocked and that the reference nipple is open to atmosphere.

WARNING! An incorrect setting of fuel pressure may cause your engine to run lean with the potential for detonation. Turbosmart recommends fitting by a qualified technician and that Air-Fuel ratios are checked.

#### 9. Lock Base Pressure

With your fuel pressure correctly set correctly tighten the lock nut and re-check the base pressure. Ensure the o-ring and washer are installed under the lock nut and there are no air leaks around the adjusting screw.

#### 10. Connect Vacuum Hose

With your fuel pressure correctly set connect the Vacuum/Boost hose to the vacuum nipple and secure with a spring clamp. Double check there are no leaks around the vacuum hose or fuel fittings and your installation is complete.

#### NOTE - PLEASE READ ATTACHED TERMS AND CONDITIONS.

Subject to the attached terms and conditions:

#### Warranty

Turbosmart warrants its products to be free from faults or defects for the life of the product. \*

\* Subject to Turbosmart trading terms and conditions

#### Warning!

Incorrect use of this product may result in damage to your vehicle. Failure to observe any notes or recommendations may result in incorrect use of this product. This product is intended for use in off-road racing only. Turbosmart will accept no responsibility for the incorrect installation or use of this product.

Turbosmart will not be held responsible for any damage caused to property or person, directly or indirectly related to the use of any Turbosmart products.



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We sometimes make mistakes, as do our dealers, distributors and suppliers. Even customers can sometimes order the wrong parts. Do not use, modify, install, trial assemble, nick, drop, scratch or adjust any part until you first check for any damage. Damage must be reported immediately. NO EXCEPTIONS. If there are any components missing please contact your authorised reseller immediately upon receipt of your shipment. Missing components must be reported within five (5) business days of receipt. Parts returned for any reason MUST BE IN RESALABLE CONDITION. It is YOUR responsibility, "THE CUSTOMER" to carefully package any returns to avoid shipping damage. Insurance is highly recommended. Credit cannot be issued for damaged cooks.

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All warranty claims must be returned to the authorised reseller, you must return the product and sales receipt, at your own expense, accompanied by a letter stating the reason for the claim. Proof of purchase must be provided with any warranty claim and will be verified with the authorised reseller from which the product was purchased.

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THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE INDIVIDUAL PURCHASER HAS READ AND UNDERSTOOD THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

The Turbosmart Team

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