

B5 Biodiesel Fuel

Toyota encourages the development of fuels based on renewable energy sources.

Biodiesel fuels are now becoming available in our market, with many variations of blends such as B20 and B30 (20% and 30% blends).

Toyota approves B5 (5% Biodiesel blend) for use in Toyota Diesel engines, but only where the fuel meets National Diesel Fuel Standard EN590.

Owners must ensure that refuelling is carried out only from a source where fuel specification and quality can be guaranteed.

 **TOYOTA GENUINE**
PARTS, SERVICE & ACCESSORIES



Sample only, the filter element is not the same on all Toyota Common-rail Diesel engine models.

A Note From Toyota

The fuel system warning lamp is the way your vehicle tells you that it needs care. Make sure to give it the best care available. Contact your Toyota dealer.



Warning Lamp



**Genuine Fuel Filter/
Sedimentator**

 **TOYOTA GENUINE**
PARTS, SERVICE & ACCESSORIES

TOYOTA MOTOR CORPORATION
No. 91604-02F
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 **TOYOTA**

IMPORTANT INFORMATION PLEASE READ CAREFULLY

FUEL SYSTEM

For Common-rail Diesel Engines

**HIGH PERFORMANCE ENGINES
DEMAND CLEAN FUEL**



**High
Performance
&
Precise
Engine**

**Optimum
Pair**

**High
Performance
Fuel Filter**



Fuel filter incorporates fuel sedimentator, condensation indicator and fuel element blockage indicator.

TAKE CARE - DON'T ALLOW CONTAMINATED FUEL TO DAMAGE YOUR ENGINE. WATER OR POOR FUEL QUALITY CAN CAUSE SERIOUS DAMAGE TO YOUR FUEL INJECTION SYSTEM

HIGH PERFORMANCE ENGINES DEMAND... CLEAN FUEL

Be aware:

Water contaminated fuel, and poor quality fuel will cause serious damage to fuel injection components.

Condensation can occur in your vehicle's fuel tank and the fuel sedimenter system is designed to provide a warning. If that occurs prompt action is required. However if fuel contamination occurs with a large quantity of water from an outside source then the fuel sedimenter cannot prevent water entering the fuel injection system.

If contamination occurs with poor quality fuel, then damage to the fuel injection system may occur.



If the warning lamp illuminates

If the fuel warning lamp comes on, immediately contact your nearest Toyota Dealer for an inspection of the system.

If the fuel filter is replaced by someone other than the Toyota Dealer, they could decide to use a non-genuine part which may not remove foreign particles in the fuel. These foreign particles will enter the high precision fuel pump and injectors and damage them. Your Toyota Dealer can be trusted with the responsibility of keeping your vehicle's engine running smoothly.

If the warning lamp flashes

IMPORTANT!



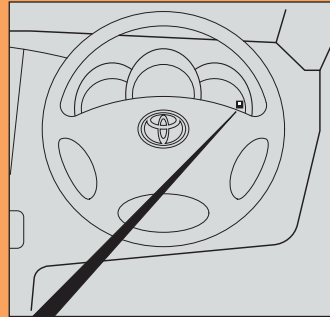
If the warning lamp flashes and/or a buzzer sounds (depending on the model) you must stop your engine and drain out the water from the fuel sedimenter IMMEDIATELY!

The fuel filter sedimenter function is designed to trap condensation that may build up over time within the fuel tank.

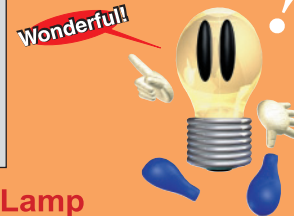
It will not protect the fuel injection system from water introduced with contaminated fuel from an outside source.

Do not operate the engine if fuel contamination is suspected. Contact your nearest Toyota Dealer IMMEDIATELY!

Fuel System Warning Lamp



A warning lamp is provided in the instrument panel to let the driver know when there is a problem in the fuel system.



Warning Lamp

If this lamp comes on, immediately contact your Toyota dealer for an inspection. If this lamp is flashing and/or if a buzzer sounds on some models, you will need to immediately drain water from the fuel filter. The procedure for this can be found in the Owner's Manual.

DO NOT RUN THE ENGINE IF FUEL CONTAMINATION IS SUSPECTED. CONTACT YOUR NEAREST TOYOTA DEALER IMMEDIATELY.

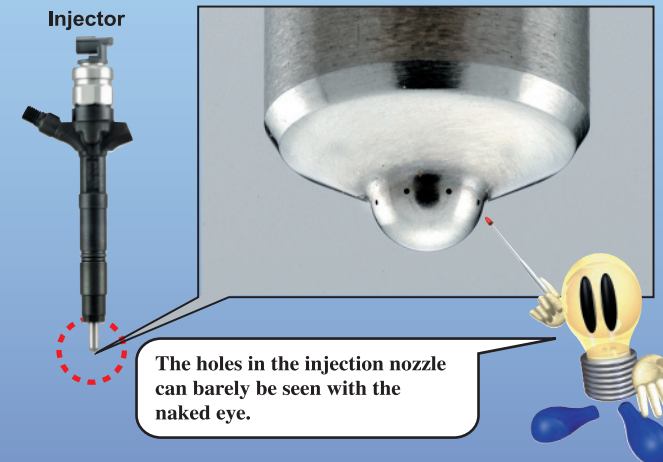
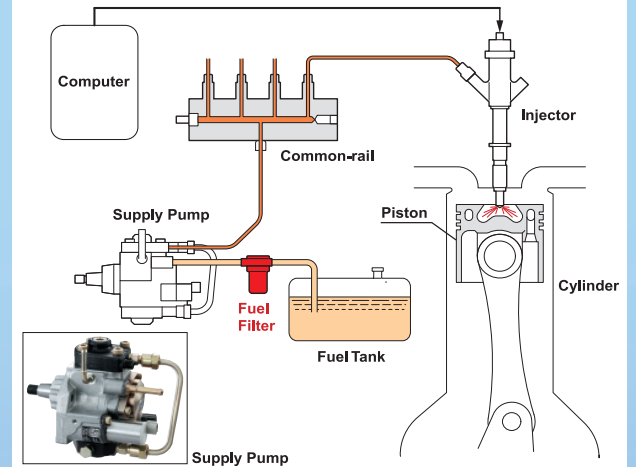


Common-rail Diesel Engine

The injection spray of Toyota common-rail diesel engines enhances combustion, helping to lower harmful exhaust emissions and improve performance.

These engines have a powerful supply pump and injectors with small nozzle holes that are connected by piping. These parts were made with greater precision than those in the typical diesel engine and therefore must have greater protection against foreign particles. Only a genuine Toyota fuel filter/sedimenter (condensate trap) can provide the level of protection needed for these precision parts. Toyota filters can remove extremely small foreign particles from the fuel and detect accumulated moisture in the sedimenter. The filters cannot prevent major fuel injection component damage if water contamination of the fuel from outside sources occurs, poor quality fuel can also cause fuel injection component damage.

Design of the Common-rail System



Even the tiniest foreign particles have to be removed to ensure efficient operation.



If foreign particles enter the injector they will clog the tiny spray holes. A clogged injection nozzle cannot create the proper injection spray, so there will be poor combustion and a resulting loss of engine power.

Normal Injection Spray

