



# Owner's Manual

Toyota 1KD-FTV Turbo Diesel

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Thank you for your purchase of a Diesel Toys ® conversion. Converting your vehicle to operate on diesel fuel, not only dramatically increases its resale value, but lowers overall operating costs and adds immeasurable longevity and flexibility to your vehicle. We have put together this booklet for you to reference throughout the life of your vehicle.

# Engine Information

The 1KD-FTV was designed by Toyota Motor Company in 2000 as a successor to the 1KZ-TE. The first official model to receive the updated engine design was the 2001 model year Land Cruiser Prado. Key enhancements over its predecessor include: fully electronic throttle system, 4-valves per cylinder, a fully variable/electronically controlled turbocharger assembly, a 32-bit microprocessor controlled, CAN-BUS Denso™ ECU, and multi-stage high pressure fuel injectors (featuring pilot injection technology). While the 1KD-FTV was never officially offered in the United States, many parts and/or components are shared with models released in the USA so most parts are readily available through local Toyota dealerships.

1KD-FTV	3.0 liter (2996 cc) inline 4-cylinder DOHC 16 valve Turbo-Diesel	Compression Ratio 17.9:1
170hp 260 ft/lbs torque @ 1800-3400 RPM	Uses Toyota's D-4D High Pressure Common Rail Fuel System	Variable Geometry Turbocharger assembly

# Filters/Fluids

Component	Part#	Replacement Interval
Fuel Filter	23390-0L010	30,000 miles
Oil Filter	90915-YZZD3	10,000 miles
Air Filter	17801-50040	15,000 miles
Engine Oil 5W40	Mobil 1 Turbo Diesel Truck & SUV	10,000 miles

# Belts

COMPONENT	PART#	INTERVAL
Timing belt	13468-39015	80.000 miles
Serpentine Belt	90916-02510	30.000 miles

# Hoses

Component	Part#	Replacement Interval
upper radiator hose	16572-30050	no specified interval
lower radiator hose	16571-30060	no specified interval

# BREAK-IN

Most Diesel Toys ® conversions use drivetrains that have already followed the break-in procedure as specified by the manufacturer. If your conversion included using a REBUILT or NEW drivetrain, you will need to follow the break-in guidelines listed below.

DO NOT allow the engine to operate at a constant RPM for prolonged periods (long highway trips)

DO NOT “lug” the engine or consistently operate the engine at a low rpm while under load. This can cause excess soot to clog the impeller vanes on the turbocharger.

DO operate the vehicle normally and over a wide range of RPM so the internal mating surfaces can wear evenly.

Change the engine oil every 5,000 miles until you reach 35,000 miles on the odometer.



# REFERENCE

## DIESEL TOYS ONLINE FORUM

CONVERSION DISCUSSION BOARDS

[WWW.TOYOTADIESEL.COM](http://WWW.TOYOTADIESEL.COM)

## PARTS SCHEMATICS & PART NUMBERS

FREE ONLINE DATABASE

[WWW.TOYODIY.COM](http://WWW.TOYODIY.COM)

## OVERSEAS PARTS SOURCE

CONTACT NAME: DAVE STEDMAN

[WWW.JAPAN4X4.COM](http://WWW.JAPAN4X4.COM)

## BLACKSTONE LABS

OIL ANALYSIS & TESTING

[WWW.BLACKSTONE-LABS.COM](http://WWW.BLACKSTONE-LABS.COM)