



GTURBO

WHY A GTURBO

FOR YOUR 1KD-FTV

N70 HILUX, 120 & 150 PRADO

Version 1.3 (2026)

Performance By Design





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GTURBO

US

GTurbo is proudly Australian-owned and operated. Our turbochargers are designed and manufactured at our Balcatta facility in Western Australia.

ABOUT

Our story begins with founder Graeme Bentink, an avid explorer of Australia's rugged landscapes, who struggled with the limitations of an underpowered and inefficient 4WD.

Convinced his factory LandCruiser had untapped potential, Graeme used his background in process engineering and metallurgy to create a solution: a high performance turbocharger built for real-world conditions.





Fourteen years on, GTurbo has grown into one of Australia's leading manufacturers of high-performance diesel turbos and tuning solutions. Fuelled by a passion for performance, we engineer, test, and optimise every product to deliver maximum power and reliability for every drive.

**DRIVEN BY INNOVATION AND BACKED BY ENGINEERING
EXCELLENCE, WE FOCUS ON THE ENTIRE SYSTEM TO BRING
YOU GREATER POWER OUTPUT WITH EVERY UPGRADE.**



OUR TURBOS

**ENGINEERED
BY DESIGN**

**BUILT ON THE FOUNDATION
OF FACTORY-FITTED UNITS,
OUR TURBOCHARGERS ARE
COMPLETELY REIMAGINED
USING CUTTING-EDGE DESIGN
PRINCIPLES TO MEET
MODERN PERFORMANCE
DEMANDS.**

All GTurbo turbochargers are balanced using state-of-the-art, four-stage high-speed equipment, spinning at up to 200,000 RPM.

We use a proprietary GTurbo balancing procedure that delivers levels of precision far beyond any original turbo we've tested. This advanced balancing ensures quiet operation, exceptional reliability under extreme boost, and, most importantly, long service life. Each GTurbo is race-ready straight out of the box, with no need for extra tuning or preparation, giving drivers the confidence to push performance to the limit from day one.

**OUR COMPREHENSIVE REDESIGN DELIVERS MORE POWER,
GREATER EFFICIENCY, AND ENHANCED RELIABILITY UNDER
HIGH-DEMAND CONDITIONS, THROUGH IMPROVED AIRFLOW,
SUPERIOR MATERIALS, AND ROBUST CONSTRUCTION.**

1 Turbine Shaft

Larger and stronger, with advanced blade metallurgy.

2 Compressor Wheel

Precision billet aluminium or titanium, point-machined for uncompromised accuracy, far superior to line-machined alternatives common in the market.

3 Bearings

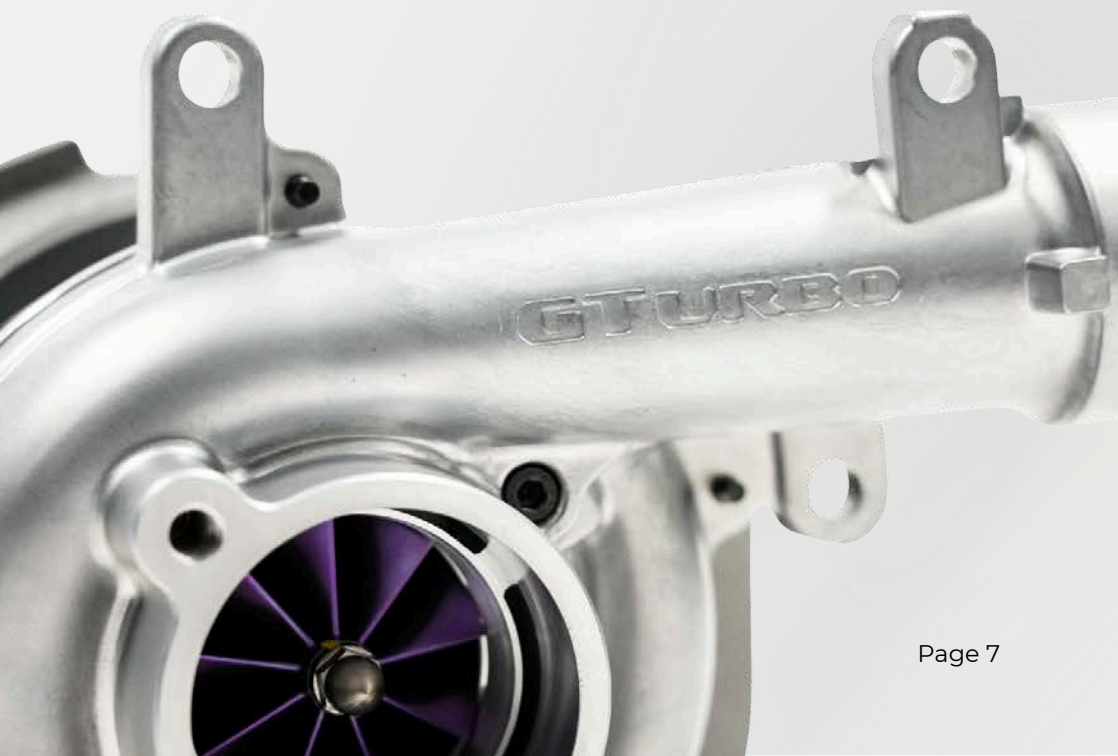
Reinforced to handle high boost with gapless seals for superior oil control.

4 Boost Capability

Rated over 40psi, ensuring durability even under over-boost conditions.

5 Variable Nozzle Technology (VNT)

Precision-controlled VNT for rapid spool, consistent boost delivery, and unmatched throttle response.





GTURBO & **THE 1KD-FTV**

The Toyota 1KD-FTV engine debuted in 2002 in the 90 Series Prado as a Euro 3-compliant powerplant, continuing through to 2015 with refinements to meet Euro 5 standards. In Australia, this engine is found in the Toyota Hilux (2005–2015) and Toyota Prado 120 & 150 Series (2006–2015).

Despite its modest stock output, the 1KD-FTV has proven to be exceptionally robust under significant power increases, far exceeding our original expectations.

GTurbo has fully re-engineered a range of performance upgrades for the 1KD-FTV that are direct-fit replacements. While they appear physically similar to factory units, these turbochargers feature a complete internal overhaul, including a redefined variable nozzle (VNT) system, maintaining compatibility while dramatically enhancing performance and durability.

In 2012, GTurbo released the first 1KD-specific turbo upgrade. Our initial test vehicle has logged over 80,000km of heavy use, with power levels reaching 60% above factory. We've since seen GTurbo-equipped 1KDs producing over 300rkw (vs a stock output of ~92rkw), with massive improvements in low-end torque and drivability, and without compromising fuel economy.





In 2015, G-Turbo purchased a 2011 automatic Hilux to further develop and validate our products. This 4WD daily driver also doubled as a drag strip test vehicle. On a daily-use tune, the Hilux (1,800kg with driver) ran a best of 12.27 sec @ 108mph. You can watch this process in more detail via the link: <https://www.youtube.com/watch?v=KWKW2d0rake>





Today, some customer builds have achieved 10.88 sec @ 125mph, showcasing the engine's serious performance potential.



PRODUCT GUIDE

FOR THE 1KD-FTV PLATFORM





TURBOCHARGERS



KD-G250 Titan
T T 1KD-FTV S2

Description

Delivers rapid spool and strong low-end torque, perfect for touring and responsive everyday performance.

\$2990



KD-G300 Titan
T T 1KD-FTV S3

Description

Combines sharp response with massive midrange power, ideal for heavy towing and high-output builds.

\$3490



KD-G320 Titanium
T T 1KD-FTV S4B

Description

Engineered for maximum boost and top-end performance, delivering extreme power for serious builds.

\$3890



KD-G250 TITAN

STAGE 1: TURBO UPGRADE

RESPONSIVE | LOW-END TORQUE | DAILY DRIVES

The GTurbo KD-G250 Titan delivers strong low-end torque and rapid response, giving your 1KD-FTV the punch it should've had from the factory. Whether you're towing, touring, or chasing big power off-road, the KD-G250 Titan is designed to perform across a wide rev range with class-leading reliability.



PRICE **\$2990**

Key Features



The KD-G250 Titan features a high-efficiency billet compressor wheel with our signature TITAN coating, engineered for ultra-low friction, extreme heat resistance, and long-term reliability.



This turbo is built for durability. It includes a high-response turbine, upgraded 360° thrust bearing, 30% stronger main shaft, and a higher-flow Next-Gen VNT system to ensure consistent boost delivery and robust operation under load.



The KD-G250 Titan is built for reliable performance under sustained load, with stepped piston ring seals on both compressor and turbine sides, anti-surge slots for stability under throttle, and enhanced thermal control for long-term durability.

Performance Expectations

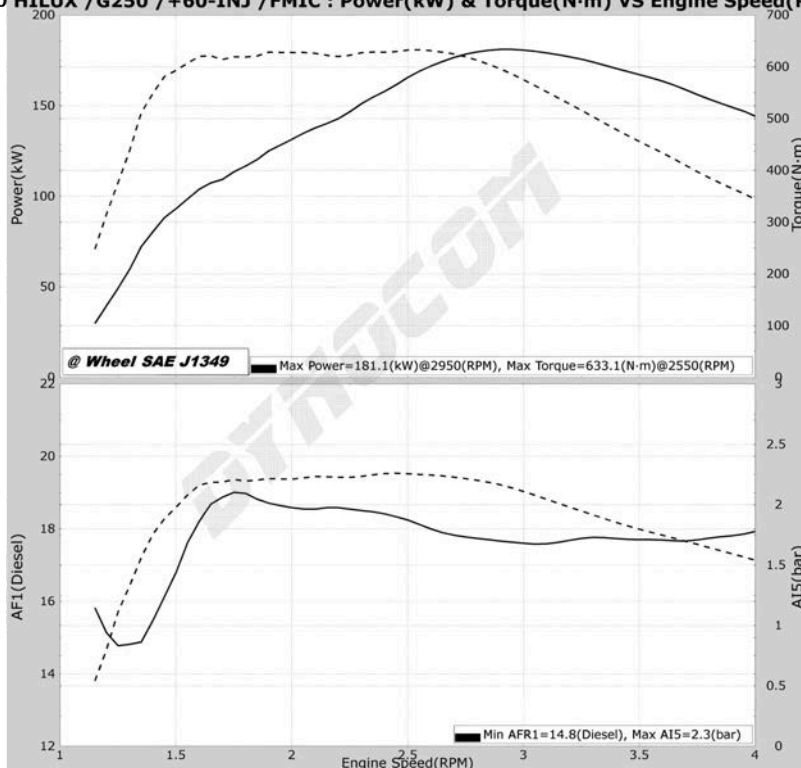
The KD-G250 Titan delivers efficient boost from 10–30psi, with a design boost of 28psi. A GTurbo ECU Tune, with supporting mods, is required to access full boost and tuning potential.

Product	Torque (Nm)	Power (rwkW)
Stock 1KD-FTV	290	92-96
KD-G250T + remap	450-550	140-150
KD-G250T + supporting mods*	600	180

*Supporting Mods = NPC800 clutch or shift kit, intercooler, 3" exhaust, upgraded airbox, high-flow injectors

The dyno graph below, reflects real-world performance of the KD-G250 Titan on a 1KD-FTV engine.

N70 HILUX /G250 /+60-INJ /FMIC : Power(kW) & Torque(N-m) VS Engine Speed(RPM)



G TURBO

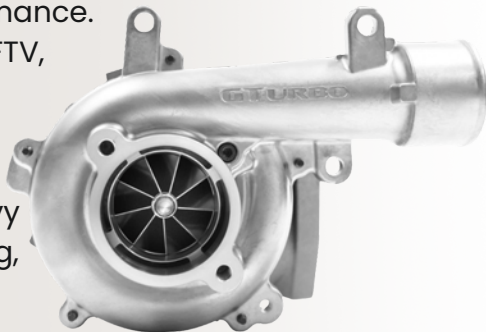
KD-G300 TITAN

STAGE 2: TURBO UPGRADE

MID-RANGE PUNCH | REAL-WORLD PERFORMANCE

The GTurbo KD-G300 Titan steps up the performance game, delivering a sharper throttle response and significantly improved top-end performance.

Purpose-built for the 1KD-FTV, this turbo provides strong, consistent boost across the full rev range, making it the ideal choice for heavy towing, high-speed touring, and demanding off-road adventures.



PRICE **\$3490**

Key Features



At its core, the KD-G300 Titan has a high-efficiency billet compressor wheel with our aerospace-grade TITAN coating for ultra-low friction and extreme heat resistance.



Behind the compressor sits a large high flow turbine (20% larger than the KD-G250T), improving flow at higher engine speeds while maintaining excellent spool characteristics. It also includes a 30% stronger main shaft and our Next-Gen high-flow VNT system, for superior performance.



The KD-G300 Titan has stepped piston ring seals on both compressor and turbine sides, anti-surge slots for stability under throttle, and enhanced thermal control for long-term durability.

Performance Expectations

The KD-G300 Titan delivers efficient boost from 10–37psi, with a design boost of 34psi. A Turbo Boost Control Module, with supporting mods, is required to access full boost and tuning potential.

Product	Torque (Nm)	Power (rwkW)
Stock 1KD-FTV	290	92-96
KD-G300T + remap	500-550	150-155
KD-G300T + supporting mods*	700+	200+

*Supporting Mods = High-flow pump or overdrive kit, NPC800 clutch or shift kit, intercooler, 3" exhaust, upgraded airbox, high-flow injectors

The dyno graph below, reflects real-world performance of the KD-G300 Titan on a 1KD-FTV engine.

11LUX/G300/+60INJ/AIRBOX/TMIC/3"EXH : Power(kW) & Torque(N-m) VS Engine Speed (RPM)





KD-G320 TITANIUM

STAGE 3: TURBO UPGRADE

SUPERIOR TOP-END POWER | DEMANDING DRIVES

The KD-G320Ti is our highest-flowing turbo for the 1KD-FTV, built for serious power and uncompromising reliability.

It's designed for those chasing big numbers, heavy towing loads, or top-end performance that doesn't taper off at high RPM.

While it maintains impressive bottom-end response, this turbo truly shines from midrange to redline.



PRICE **\$3890**

Key Features



The KD-G320 Titanium features our 6AL4V titanium compressor wheel, offering unmatched fatigue resistance, exceptional strength, and superior balance retention under long-term load. It also resists damage from foreign object impact, making it ideal for harsh off-road and high-performance environments.



Combined with our large high-flow turbine, this setup delivers massive flow and exceptional thermal stability under high boost and EGT conditions.



The KD-G320Ti has a 30% stronger main shaft, upgraded thrust bearing, and a high-flow Next-Gen VNT system. It also features our 360 thrust bearing for improved reliability and anti-surge slots in a revised compressor cover to eliminate the surge issue.

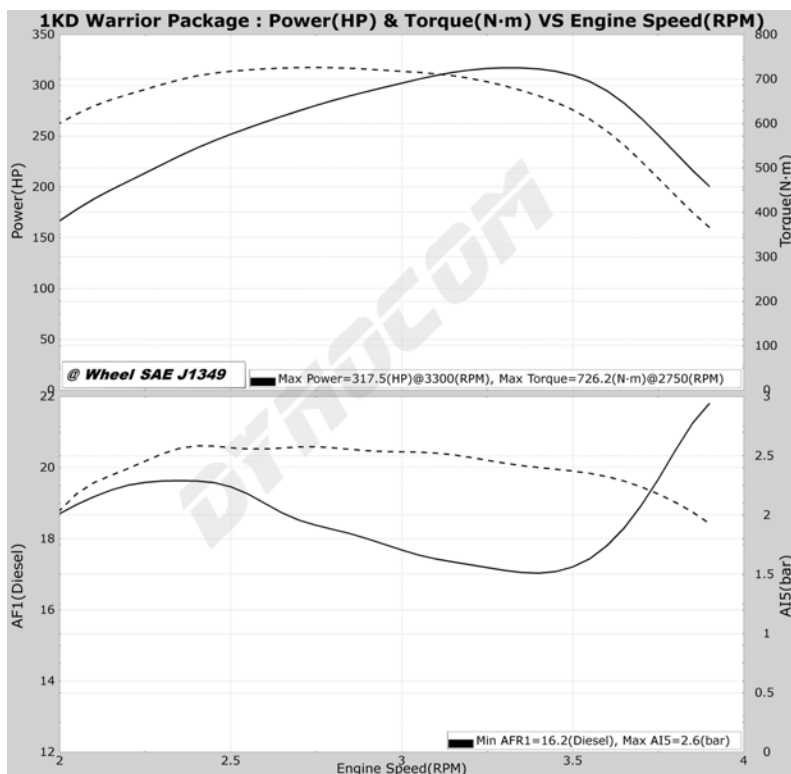
Performance Expectations

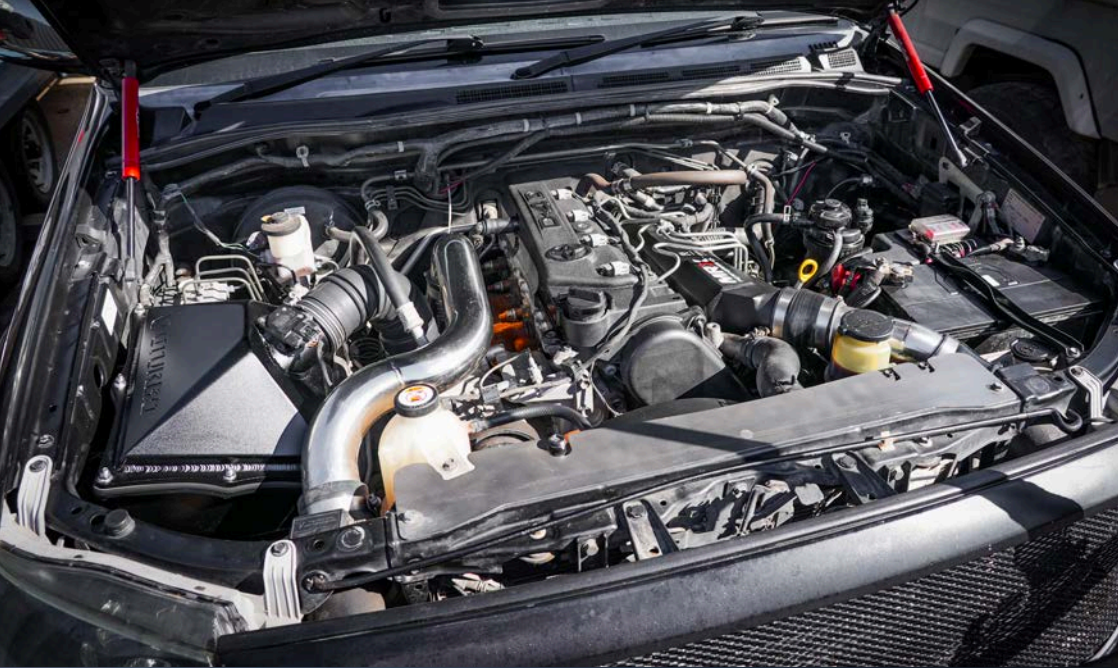
The KD-G320 Titanium is designed to operate from 12–40psi, with a target boost of 36psi. Tuning with supporting mods is required to access full boost potential.

Product	Torque (Nm)	Power (rwkW)
Stock 1KD-FTV	290	92-96
KD-G320Ti + remap	500-550	150-155
KD-G320Ti + supporting mods*	900	250

*Supporting Mods = High-flow pump or overdrive kit, upgraded clutch or shift kit, intercooler, 3" exhaust, upgraded airbox, high-flow injectors

The dyno graph below, reflects real-world performance of the KD-G320 Titanium on a 1KD-FTV engine.





SUPPORTING MODS



High-Flow Airbox
A AB GT N70

Description

Unrestricted airflow and ultimate dust sealing for maximum engine performance.

\$1495



NPC600 Clutch
C CL XHD T11

Description

Heavy-duty clutch rated for up to 600Nm, delivering factory-like drivability with unmatched strength for high-torque builds.

\$1450



NPC800 Clutch
C CL XHD T10

Description

Heavy-duty clutch rated for up to 800Nm, delivering factory-like drivability with unmatched strength for high-torque builds.

\$1690



Ratio-Tech Shift Kit
G SK A750

Description

Valve-body upgrade for the A750F automatic transmission.

\$315



Transgo Shift Kit
G SK A340

Description

Valve-body upgrade for A340F automatic transmission.

\$290



+60% Injectors
F | 1KD-FTV S2

Description

High-flow injectors offering a 60% increase in fuel delivery, supplied on an exchange basis. Other purchase options available - see page 26.

PRICING FROM \$1390



Intercooler -
N70 Hilux

A IC AA 1KD N70

Description

High-performance cooling upgrade that lowers intake temps, sharpens throttle response, and maintains power under load. See page 29.

\$1700



Intercooler -
KDJ120 Prado

A IC AA KDJ150

Description

High-performance cooling upgrade that lowers intake temps, sharpens throttle response, and maintains power under load. See page 29.

\$1600



Intercooler -
KDJ150 Prado

A IC AA KDJ150

Description

High-performance cooling upgrade that lowers intake temps, sharpens throttle response, and maintains power under load. See page 29.

\$1400



HIGH-FLOW AIRBOX

N70 1KD-FTV TOYOTA HILUX

DURABLE | LIGHT-WEIGHT | DROP-IN FIT

GTurbo's high-performance airboxes are engineered for maximum airflow, strength, and durability to complement our turbo systems. Designed for harsh conditions, they deliver consistent performance, reliable filtration, and the long-term protection needed for high-power builds.



PRICE \$1495

Features

Our GTurbo High-Flow Airbox features a market-first double-seal system for superior dust and water protection in the harshest conditions. Built from 3mm alloy with 8mm flanges and finished in corrosion-resistant anodizing, it delivers strength, durability, and long-term reliability.

Designed as a direct OEM replacement, it uses factory mounting points and retains OEM filter compatibility for easy servicing. Unlike plastic factory units that flex and leak under load, GTurbo's alloy design ensures clean, cool, and unrestricted airflow, improving engine performance and providing consistent protection for towing, touring, and serious off-road use.

Why it's needed

High-performance turbos demand more air than the factory airbox can deliver. Stock units can become a major restriction, reducing power and efficiency.

PERFORMANCE BY DESIGN





NPC600/800 CLUTCH

1KD-FTV MANUAL TRANSMISSION

EXCELLENT DRIVEABILITY | RELIABLE | STRONG

GTurbo proudly partners with NPC to deliver heavy-duty clutch solutions for your GTurbo upgrade. Whether you're towing, touring, or chasing serious power, these clutch kits provide the strength to manage high torque without sacrificing drivability, making them the ideal upgrade for demanding builds.



PRICING FROM **\$1450**

Features

The NPC600 and NPC800 clutch are engineered to handle up to 600Nm and 800 Nm of torque, respectively. These clutches are the perfect match for high-performance turbo upgrades, featuring a full-face organic disc, a heavy-duty pressure plate, and superior clamping force while maintaining a smooth, factory-like pedal feel for everyday comfort. The NPC800 kit includes a billet steel flywheel for added strength and heat resistance, ensuring consistent performance under extreme conditions.

Why a clutch upgraded is needed

If you're chasing more than 500Nm at the wheels, a clutch upgrade is essential. The factory clutch simply isn't designed to hold that level of torque, especially under sustained load, and will quickly become a limiting factor in drivability and reliability.

Which clutch is right for your car?

Upgrade	Vehicle	Price
NPC800	N70 Hilux & KDJ150 Prado	\$1690
NPC600	KDJ120 Prado	\$1450

VALVE BODY UPGRADE

1KD-FTV AUTOMATIC TRANSMISSION

EXCELLENT DRIVEABILITY | RELIABLE | STRONG

Upgrading the valve body is essential for preserving transmission performance in tuned or hard-working 1KD-FTV vehicles. GTurbo offers vehicle specific shift kits to deliver firmer gear changes, increased line pressure, and the durability required to handle high torque with confidence.



PRICING FROM \$290

Features

GTurbo offers the TransGo and RatioTech shift kits, specific to select 1KD-FTV vehicles (see below). These upgrades boost line pressure and shift speed, reducing internal slip and heat, ideal for towing, off-road, or high-torque setups. They also improve responsiveness and drivability by delivering sharper gear changes and stronger clutch engagement under load.

Why a valve body upgrade is needed

When torque increases or towing is frequent, the factory automatic transmissions in 1KD-FTV vehicles become vulnerable to premature wear due to slow clutch engagement and low line pressure.

Which valve body is right for your car?

Upgrade	Vehicle	Price
TransGo Shift Kit	N70 Hilux (A340F 4-Speed Auto)	\$290
RatioTech Shift Kit	KDJ120/KDJ150 Prado (A750F 5-Speed Auto)	\$315

HIGH-FLOW INJECTORS

+60% HIGH-FLOW INJECTORS

PRECISION-FLOW | INTEGRATED | RELIABLE

GTurbo High-Flow Injectors are designed for seamless integration with GTurbo systems. These injectors deliver precise fuel delivery for stronger throttle response, increased torque, and big-power capability.



PRICING FROM **\$1390**

Why upgrade Injectors?

Upgrading injectors is essential when chasing more than ~160rwkW or 550Nm at the wheels, as the factory injectors simply can't deliver the required fuel. Larger injectors reduce the workload on your injection system. By delivering more fuel at lower rail pressures, they help take the strain off your injector pump while improving atomisation and combustion under load. Whether you're chasing more torque, better fuel delivery under boost, or future-proofing your build for power goals, high-flow injectors are a key part of the puzzle.

Whether you're building a mild daily or targeting 200+rwkW and over 700Nm, these injectors are proven performers. Fully ECU-controllable, your tuner can tailor them to suit a wide range of setups and torque targets, giving you flexibility without compromise.

What we offer?

GTurbo has developed a range of +60% high-flow injectors for the 1KD-FTV engine. These are designed to integrate seamlessly with GTurbo turbocharger systems and performance packages.

Purchase Options

+60% High-Flow Injector Exchange Program

Swap your old injectors for professionally modified, flow-matched units through our exchange program. Injectors are supplied first on an exchange basis with a **\$300 refundable core charge** which is reimbursed once your original injectors are returned. The cores must be in working, serviceable condition for refund eligibility.

PRICE **\$1390**

New Genuine Toyota +60% High-Flow Injectors

Genuine brand-new injectors are precision-modified and flow-matched by GTurbo for maximum performance,

PRICE **\$3490**

+60% High-Flow Injector Nozzles Only

Retain your existing injectors while boosting performance with GTurbo's precision-engineered high-flow nozzles. Perfect for customers working with local fuel specialists, this option delivers increased fueling capacity without replacing the entire injector.

PRICE **\$552**

Fitting Kit

Our complete kit with everything you need for an injector install: Gaskets, seals and injector seats.

PRICE **\$199**

Performance Expectations Table

Product	Torque (Nm)	Power (rwkW)
Stock 1KD-FTV	290	92-96
KD-G250T + Tune + HF Injectors*	600	180
KD-G300T + Tune + HF Injectors*	650-700	180-220
KD-G320Ti + Tune + HF Injectors*	700-750	200-230

*HF Injectors = +60% High-Flow Injectors

FM INTERCOOLER

KDJ120/150/N70 PDI INTERCOOLERS

UNMATCHED COOLING | EFFICIENT | SEAMLESS

The PDI Front Mount Intercooler Kits provide the ultimate cooling upgrade for the 1KD-FTV platform. Engineered for serious performance in demanding conditions, this upgrade delivers dramatically lower intake temperatures, improved throttle response, and reliable power delivery, especially under load.



PRICING FROM **\$1400**

Features

The PDI Front Mount Intercooler range for the 1KD-FTV engine has been carefully engineered to deliver exceptional cooling efficiency, clean fitment, and long-term durability.

Each kit features a high-performance core designed for maximum airflow and thermal efficiency. All systems feature custom high-flow end tanks, stainless steel piping, 5-ply silicone joiners, and high-torque Breeze liner clamps. The Hilux and 120 Prado brackets are constructed from zinc-coated and painted mild steel to avoid rust caused by galvanic reaction with surrounding materials.

The result is a direct-fit intercooler system that dramatically reduces intake temps, typically 4–6°C above ambient during normal driving. Extensive testing has demonstrated that these temperatures remain stable even under hard use. Customers have also reported improved throttle response, cooler EGTs (by 50–60°C at cruise), and increased tune headroom even when upgrading from other front-mount kits.

Why should I upgrade my intercooler?

The 1KD-FTV is a strong and responsive engine, but intercooler performance quickly becomes a limiting factor as power demands rise. Factory coolers are either top-mounted and prone to heat soak (N70 Hilux and 120 Prado), or undersized (150 Prado). This creates elevated EGTs and inconsistent power delivery, particularly when towing, touring, or running high-boost tunes.

The PDI kits are engineered to support aggressive tuning, higher sustained boost, and the thermal demands of off-road and highway touring. Tested to handle extreme pressures, up to 60psi in some builds, these intercoolers provide the cooling stability required for both reliability and performance.

Why do the kits differ for each vehicle?

Each kit is purpose-built for the vehicle it supports. The N70 Hilux kit uses a massive 600x300x76mm core, around 20% larger than many aftermarket designs, while the 120 Prado kit fits a custom 600x265x76mm core mounted as high as possible for optimum exposure. The 150 Prado core is the largest possible fit in the standard location, with a 28% increase in surface area and 3.33x the core volume of the factory unit.

Vehicle	Core Size (mm)	Price
N70 Hilux	600x300x76	\$1700
KDJ120 Prado	600x265x76	\$1600
KDJ150 Prado	600x500x65	\$1400

Optional Add-Ons

Transmission Cooler (KDJ150 Prado ONLY)

For heavy-duty automatic KDJ150 Prado builds, PDI's upgraded transmission cooler is a direct replacement for the factory unit, and demonstrates significantly improved cooling capacity. This add-on includes a bracket to relocate the factory thermo fan.

**OPTIONAL
UPGRADE** **No Extra Cost**

POWER PACKAGES FOR THE 1KD-FTV PLATFORM



Performance Package Summary

Package	Description	Price	
		Supply Only (No Tune)	Supply & Install (With Tune)
Starter Package	<ul style="list-style-type: none"> GTurbo KD-G250 Titan Turbo PDI Front-Mount Intercooler (Prado) GTurbo High-Flow Airbox (Hilux) Genuine IKD-FTV Turbo Gasket Kit 	Hilux	
		\$4,684	\$8,064
		Prado	
		\$4,690	\$8,380
Explorer Package	<ul style="list-style-type: none"> GTurbo KD-G250 Titan Turbo GTurbo KD-Pro High-Flow Injectors PDI Front-Mount Intercooler GTurbo High-Flow Airbox (Hilux) Genuine IKD-FTV Turbo & Injector Gasket Kit 	Hilux	
		\$7,954	\$11,574
		Prado	
		\$6,459	\$10,079
Adventurer Package	<ul style="list-style-type: none"> GTurbo KD-G300 Titan Turbo GTurbo KD-Pro High-Flow Injectors PDI Front-Mount Intercooler GTurbo High-Flow Airbox (Hilux) Genuine IKD-FTV Turbo Gasket Kit 	Hilux	
		\$8,454	\$12,074
		Prado	
		\$6,959	\$10,579
Warrior Package	<ul style="list-style-type: none"> GTurbo KD-G320 Titanium Turbo High-Flow Injector Pump Upgrade GTurbo KD-Pro High-Flow Injectors PDI Front-Mount Intercooler GTurbo High-Flow Airbox (Hilux) Genuine IKD-FTV Gasket Kit 	Hilux	
		\$11,834	\$16,554
		Prado	
		\$10,249	\$15,059
Optional Extras	NPC800Nm Clutch (Manual Models)	\$1690	\$2790
	Valve Body Upgrade (Auto Models)	\$315	\$1800



PACKAGE ONE

STAGE 1: STARTER PACKAGE

RESPONSIVENESS | EFFICIENCY | RELIABLE POWER

The Ultimate Starting Point for Your 1KD-FTV

GTurbo's 1KD Starter Package is the ideal entry-level upgrade for Prado and N70 Hilux owners wanting stronger performance and improved throttle response. Built around the proven KD-G250 Titan Turbo, it enhances airflow, boost response, and charge-air cooling to deliver up to 200 HP and 500 Nm when professionally tuned—while maintaining OEM reliability and comfort.

PRICING
FROM **\$4,684**

What's included?

GTurbo KD-G250 Titan Turbocharger

High-flow billet compressor design providing rapid spool, stronger midrange torque, and improved top-end performance while retaining factory drivability.

Vehicle-Specific Airflow & Cooling Upgrades

Supporting components are matched to your vehicle platform:

KDJ120 / KDJ150 Prado – Includes PDI Front-Mount Intercooler for significantly improved charge-air cooling and more consistent performance under load.

N70 Hilux – Includes GTurbo High-Flow Airbox, purpose-built to deliver maximum airflow and superior filtration using GTurbo's proven double-seal system for extreme dust protection.

Genuine 1KD-FTV Turbo Gasket Kit

OEM-quality sealing components ensure a professional, leak-free installation and long-term reliability.

Why Choose Package 1?

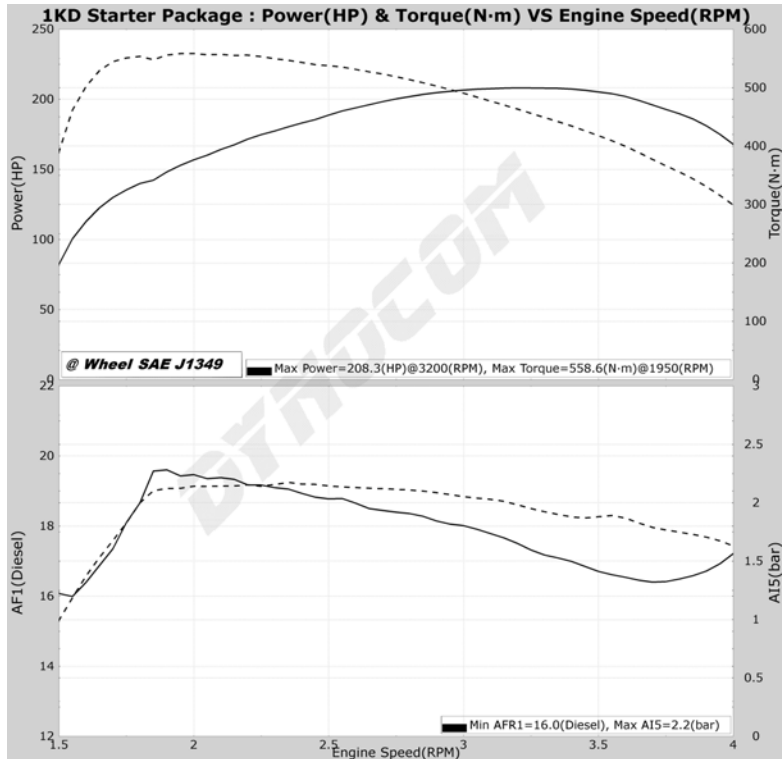
- Safe, reliable power gains on stock engines
- Faster turbo response and stronger midrange torque
- Improved airflow and charge-air cooling
- Reduced heat soak and more consistent performance
- Maintains factory comfort and drivability
- Ideal foundation for future Explorer or Adventurer upgrades

Performance Gains:

Product	Torque (wNm)	Power (whp)
Stock 1KD-FTV	290Nm	125hp
Package 1 (Starter Package)	500Nm	200hp

Note: Figures based on typical dyno results of 1KD-FTV vehicles with standard supporting setups. Results may vary slightly depending on vehicle condition, tyre size, and other modifications.

The dyno graph below, reflects real-world performance of a 1KD-FTV (Hilux) upgraded with a stage 1 performance package.





PACKAGE TWO

STAGE 2: EXPLORER PACKAGE

MORE TORQUE | COOLER RUNNING | STRONGER RESPONSE

The Midrange Upgrade for Serious Touring and Towing

GTurbo's 1KD Explorer Package builds on the Starter Package foundation, delivering a major step up in low and midrange torque, throttle response, and sustained performance under load. Designed for Hilux and Prado owners who tow, tour, or demand stronger everyday performance, this stage adds fueling and cooling capacity to safely reach 250 HP and 600 Nm once professionally tuned.

PRICING
FROM **\$6,459**

What's included?

In **addition** to all the Package 1 essentials (GTurbo KD-G250 GTurbo Airbox for Hilux, PDI Intercooler for Prado), Package 2 includes:

PDI Front-Mount Intercooler (for Hilux)

Large-core intercooler improves charge-air cooling to maintain consistent performance and reduce heat soak during towing, climbing, or off-road use.

GTurbo KD-Pro High-Flow Injectors

Precision-built injectors increase fueling capacity, delivering clean, efficient power under load and supporting higher torque output.

Genuine 1KD-FTV Turbo & Injector Gasket Kit

OEM-quality sealing components ensure professional installation and long-term reliability.

Optional Driveline Upgrades

Upgraded 800Nm clutch (Manual Models)

Valve body upgrade (Automatic Models)

ADDITIONAL COSTS
INVOLVED (SEE PAGE 31)

Why Choose Package 2?

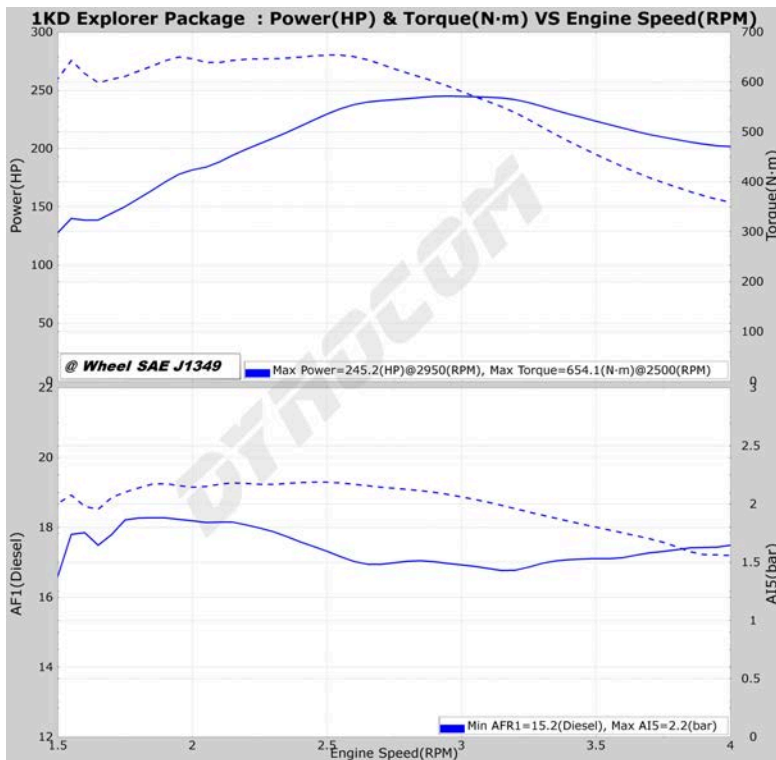
- Strong increase in midrange torque for towing and overtaking
- Improved charge-air cooling under sustained load
- Increased fueling capacity for safe performance gains
- Sharper throttle response and smoother power delivery
- Designed for serious touring and heavy-use applications

Performance Gains

Product	Torque (wNm)	Power (whp)
Stock 1KD-FTV	290Nm	125hp
Package 2 (Explorer Package)	600Nm	250hp

Note: Figures based on typical dyno results of 1KD-FTV vehicles with standard supporting setups. Results may vary depending on vehicle condition and modifications.

The dyno graph below, reflects real-world performance of a 1KD-FTV (Hilux) upgraded with a stage 2 performance package.





PACKAGE THREE

STAGE 3: ADVENTURER PACKAGE

HIGH POWER | FULL FUELING | SUSTAINED TORQUE

The Heavy-Duty Upgrade for Serious Touring and Towing

GTurbo's 1KD Adventurer Package builds on the Explorer Package foundation, delivering improved airflow capacity, lower intake temperatures, and stronger sustained performance under load. Designed for Hilux and Prado owners who tow, tour, or tackle demanding off-road conditions, this stage upgrades turbo flow and cooling control to safely produce up to 270 HP and 650 Nm once professionally tuned, while maintaining smooth drivability and long-term reliability.

PRICING FROM **\$6,959**

What's included?

GTurbo KD-G300 Titan Turbocharger

Higher-flow billet design providing midrange and top-end grunt, increased airflow capacity, and stronger sustained performance over the Stage 2 setup.

In **addition** to all the Package 2 essentials:

GTurbo KD-Pro High-Flow Injectors

PDI Intercooler Front Mount Intercooler

GTurbo Airbox (Hilux Only)

Genuine 1KD-FTV Turbo and Injector Gasket Kits

Optional Driveline Upgrades

Upgraded 800Nm clutch (Manual Models)

Valve body upgrade (Automatic Models)

ADDITIONAL COSTS INVOLVED (SEE PAGE 31)

Why Choose Package 3?

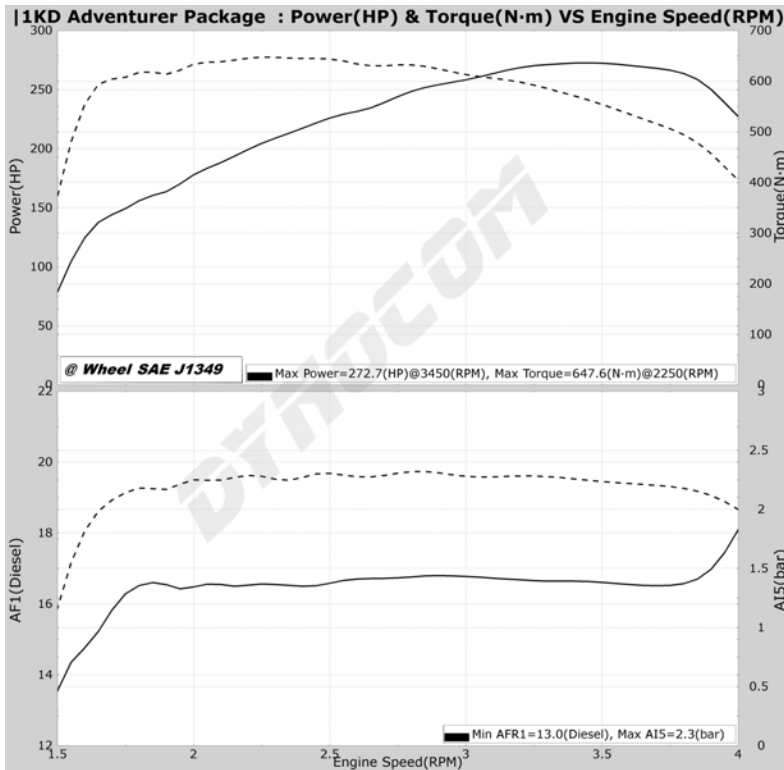
- Increased turbo airflow capacity for sustained power
- Lower intake temps and improved heat control
- Stronger midrange torque for towing and climbing
- Smoother, more controlled performance across the rev range
- Designed for heavy touring and off-road reliability

Performance Gains

Product	Torque (wNm)	Power (whp)
Stock 1KD-FTV	290Nm	125hp
Package 3 (Adventurer Package)	650Nm	270hp

Note: Figures based on typical dyno results of 1KD-FTV vehicles with standard supporting setups. Results may vary depending on vehicle condition and modifications.

The dyno graph below, reflects real-world performance of a 1KD-FTV (Hilux) upgraded with a stage 3 performance package.





PACKAGE FOUR

STAGE 4: WARRIOR PACKAGE

MAXIMUM POWER | UNMATCHED DRIVEABILITY

The Ultimate 1KD Upgrade for Maximum Power

GTurbo's 1KD Warrior Package builds on the Adventurer platform to deliver the highest airflow, fueling capacity, and performance available for the 1KD. Designed for Hilux and Prado owners chasing maximum power, it upgrades turbo flow and fuel delivery to achieve up to 320 HP and 750 Nm when professionally tuned—producing strong midrange torque, powerful top-end performance.

PRICING
FROM **\$10,249**

What's included?

GTurbo KD-G320 Titanium Turbocharger

Titanium billet compressor wheel and reinforced internals provide significantly higher airflow capacity, increased boost stability, and strong sustained top-end performance.

High-Flow Injector Pump Upgrade

Upgraded fuel delivery capacity ensures stable fueling to match the KD-G320's airflow, supporting higher load operation and long-term reliability.

In **addition** to all the Package 2 essentials:

GTurbo KD-Pro High-Flow Injectors

PDI Intercooler Front Mount Intercooler

GTurbo Airbox (Hilux Only)

Genuine 1KD-FTV Turbo and Injector Gasket Kits

Optional Driveline Upgrades

Upgraded 800Nm clutch (Manual Models)

Valve body upgrade (Automatic Models)

ADDITIONAL COSTS INVOLVED (SEE PAGE 31)

Why Choose Package 4?

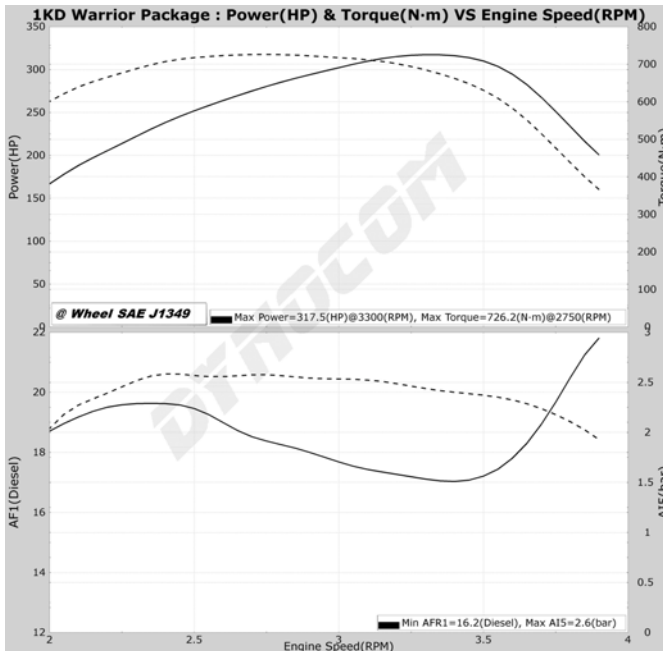
- Highest airflow and fueling capacity available for the 1KD
- Massive midrange torque and strong top-end performance
- Improved cooling control under sustained heavy load
- Designed for serious towing, touring, and off-road performance
- Maintains drivability while delivering major power gains

Performance Gains

Product	Torque (wNm)	Power (whp)
Stock 1KD-FTV	290Nm	125hp
Package 4 (Warrior Package)	750Nm	320hp

Note: Figures based on typical dyno results of 1KD-FTV vehicles with standard supporting setups. Results may vary depending on vehicle condition and modifications.

The dyno graph below, reflects real-world performance of a 1KD-FTV (Hilux) upgraded with a stage 4 performance package.



CONSIDERATIONS FOR THE 1KD-FTV PLATFORM



Before Upgrading

Before upgrading your turbo, it's crucial to plan for the supporting modifications that make extra power safe and reliable. Relying on stock components can limit performance, or worse, lead to engine or driveline damage. Ensuring the right supporting mods will protect your investment and unlock the full potential of your GTurbo upgrade.

Supporting modifications

We have provided extensive information on preceding pages regarding supporting modifications. To summarise:

REQUIRED

- NPC600/800Nm clutch upgrade (from Stage 2 turbo upgrades) OR shift kit upgrade

RECOMMENDED

- PDI Front-Mount Intercooler
- Minimum 3" Exhaust
- Airbox
- High-Flow Injectors

Tuning

At GTurbo, we prioritise safe, reliable performance. The figures we publish reflect conservative, real-world results suited to long-term reliability. If you're aiming for more aggressive tuning, we can accommodate that, with the understanding that increased risk may be involved. We're here to guide you through the right setup based on your goals and how you use your vehicle.

Fueling

The factory injectors on the 1KD-FTV become a significant restriction once power levels approach 150-160kW and ~500-550Nm at the wheels. To safely and reliably push beyond this threshold, we recommend upgrading to high-flow +60% injectors. These upgraded injectors support power targets of 200+ kW and 700-800+ Nm at the wheels.

Intake Manifold Cleaning

Over time, the EGR system allows oily vapour and soot to build up in the intake manifold, forming sludge that restricts airflow and reduces performance. Given the age of these vehicles, most will benefit from a thorough intake clean to restore flow and improve efficiency.

Injector Installation Caution

On all 1KD-FTV engines, injector installation must be done carefully, as poorly seated leak-off washers can allow diesel into the sump, raising oil levels and risking engine runaway.

Torque injectors to 18Nm, ensure the leak-off rail is sealed, lightly oil the leak-off bolts, and check for leaks with compressed air before final assembly. Monitor oil level over the first 1,000km to confirm no diesel contamination.

N70 Hilux Gearbox Strength

When upgrading an N70 Hilux 1KD-FTV beyond 700Nm, the limits of the factory 5-speed manual become a concern. Third gear typically fails first, with fifth also vulnerable. Around 600–700Nm it can hold with careful driving, but aggressive use increases risk.

For high-power builds, factor in gearbox reliability—either manage torque delivery or consider upgrades for long-term durability.

Piston Cracking in 1KD-FTV Engines

Cracked pistons are a known issue in the 1KD-FTV, often blamed on over-fuelling or high EGTs, but the root cause is typically piston design. The factory piston has a sharp-edged combustion bowl lip that concentrates heat stress, leading to cracks over time.

GTurbo addresses this with genuine Toyota pistons modified to a de-lipped bowl design, removing the stress point and improving durability under higher load and boost.

For high-power 1KD builds, upgrading to de-lipped pistons is strongly recommended for long-term reliability.

MAP Sensor Filter Cracks

The plastic MAP sensor filter is a common failure point. Cracks or leaks in this filter can cause incorrect sensor readings, resulting in power loss or tuning issues. GTurbo offers a washable stainless steel replacement for \$99 that won't crack or degrade over time.

Injector Compatibility

Before purchasing high-flow injectors for your 1KD-FTV, it's essential to confirm which injector type your engine uses. There are three injector variants fitted to this engine, which GTurbo identifies by the first two digits on the injector plug:

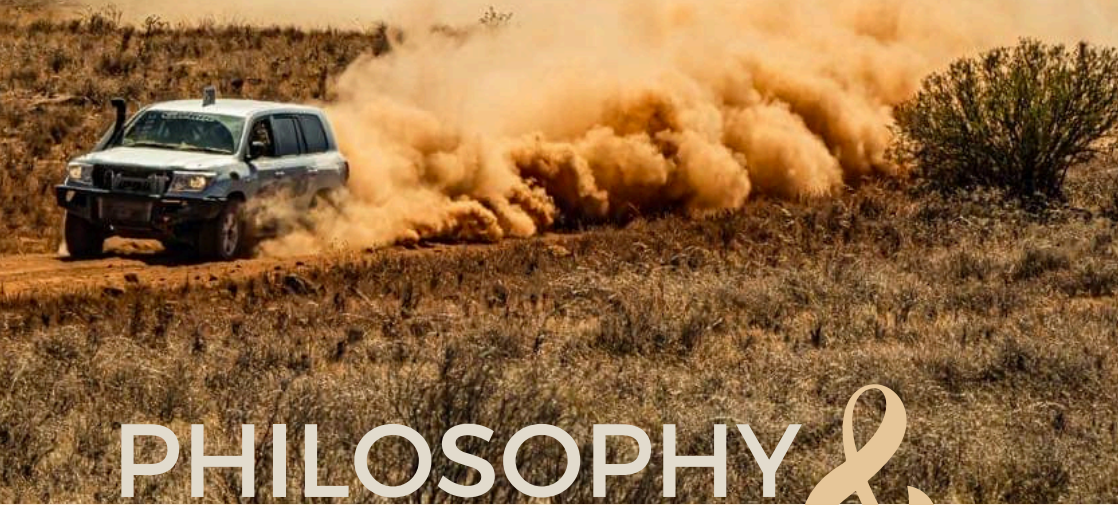
- "11" (2005–2007)
- "13" (2007–2009)
- "18" (2009–2015).

These codes are clearly marked on top of the injector plug. It's important to match your injectors correctly. "13" code injectors can be used in place of "11" injectors, but not the other way around. "18" code injectors are only compatible with "18" engines and cannot be retrofitted to earlier models. Installing the wrong injector type may result in coding issues or poor performance, so always check your injector code before ordering.

Always Remember

At GTurbo, we're passionate about helping you get the most out of your diesel performance journey. Whether you're chasing reliable towing power, building an off-road beast, or planning a high-performance upgrade, our team is here to guide you every step of the way. From choosing the right turbo to selecting supporting modifications and tuning solutions, we'll make sure your setup is safe, efficient, and delivers the results you're looking for.

Got questions? Our expert support is only a call or email away. You can find our contact information on Page 45.



PHILOSOPHY & WARRANTY

Philosophy

GTurbo turbos are designed to safely handle the boost levels we specify, while maintaining exceptional durability and performance. Our units are bolt-on replacements, connecting seamlessly to your existing manifold and exhaust for a straightforward upgrade.

At GTurbo, we prioritise safe, reliable performance. The figures we publish reflect conservative, real-world results suited to long-term reliability. If you're aiming for more aggressive tuning, we can accommodate that, with the understanding that increased risk may be involved. We're here to guide you through the right setup based on your goals and how you use your vehicle.

Warranty

Every GTurbo product comes with a 12-month warranty against manufacturing and assembly defects. This excludes our titanium models which are covered for 24-months under warranty.

We take pride in delivering world-class products that significantly enhance your vehicle's performance and in providing outstanding support to ensure the best possible GTurbo experience.

While we'll assist you wherever possible, please note that we cannot accept liability for issues caused by factors outside our control.

CONTACT US

G GTURBO

PERFORMANCE BY DESIGN

We're here to help you get the most out of your diesel performance. Whether you have questions about our products, need advice on the right upgrade, or want to book a tune, the GTurbo team is ready to assist.

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Opening Hours

Monday – Friday:
8:30 AM – 4:30 PM

Saturday – Sunday:
Closed

PERFORMANCE BY DESIGN

