



***GTURBO***

# WHY A GTURBO

FOR YOUR F33A-FTV

300 SERIES LANDCRUISER

Version 1.3 (2026)

Performance By Design





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A photograph of the GTURBO storefront. The building has a dark grey facade with large glass windows. The 'GTURBO' logo is prominently displayed in large, 3D, metallic letters above the entrance. The 'G' is red, and the rest of the letters are silver. The windows show the interior of the shop, which is dimly lit.

# 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 F33A-FTV**

In 2022, GTurbo added the Toyota FJA300 Series LandCruiser to our development fleet with the goal of building a range of high-performance upgrade packages, intercooling solutions, and turbocharger systems for this next-generation platform.

Powered by Toyota's all-new F33A-FTV 3.3L twin-turbo V6 diesel engine, the FJA300 marks a significant leap forward in technology, performance, and refinement compared to the previous-generation VDJ200 Series. With 227kW and 700Nm in stock form, the F33A offers impressive factory performance, but, like any modern diesel, it still suffers from key limitations in airflow, charge cooling, and factory tuning strategies.

## What Is the F33A-FTV Engine?

The F33A-FTV is Toyota's first-ever production V6 diesel, introduced in June 2021 with the launch of the FJA300 LandCruiser. It replaces the legendary 4.5L IVD-FTV V8 diesel used in the 200 and 70 Series platforms.

### ENGINE SPECIFICATIONS

**ENGINE CODE:** F33A-FTV

**DISPLACEMENT:** 3.3L (3345CC)

**CONFIGURATION:** 60° V6, DOHC, TWIN-TURBO

**FACTORY OUTPUT:** 227KW (304 HP) @ 4000 RPM

**FACTORY TORQUE:** 700NM @ 1600-2600 RPM

**TURBO SYSTEM:** SEQUENTIAL TWIN-TURBO SETUP

**TRANSMISSION:** 10-SPEED AUTOMATIC (DIRECT SHIFT-10AT)

This engine uses a cast iron block, high pressure common rail injection, and a sequential twin turbo system that balances low end torque with top end power. The 10 speed auto maintains optimal power delivery, though tuning, airflow, and cooling limits remain under heavy load or off road use.





## **What Are the FJA300's Limitations from Factory?**

Despite strong performance out of the box, many owners quickly notice the following issues:

- ◆ Turbo switchover hesitation around 2000rpm
- ◆ Intake dusting risks due to factory airbox design
- ◆ Weak factory exhaust flow, resulting in limited performance
- ◆ Poor intercooler performance under sustained load
- ◆ Limited torque below 1800rpm for towing or uphill driving
- ◆ Exposed fuel filter location, therefore highly vulnerable off-road

## **What Is GTurbo Doing About It?**

While turbocharger upgrades for the F33A-FTV are still under active development, GTurbo has already released three performance packages aimed at solving the most common 300 Series complaints. Improving towing performance, driveability, cooling, and long-term engine protection.

To date, GTurbo has developed:

- ◆ A twin-seal GTurbo airbox to address filtration issues
  - ◆ A fuel filter guard to protect one of the most vulnerable underbody components
  - ◆ A 4" GTurbo stainless steel exhaust, co-developed with Manta Performance
  - ◆ A high-efficiency air-to-liquid heat exchanger system, outperforming every other 300 Series cooler on the market
- Full ECU and TCU GTune remapping, to unlock the true potential of the 3.3L twin-turbo V6

Turbocharger and fuel system upgrades are currently in development and will be released after extensive real-world testing.

## Why GTurbo?

GTurbo is an Australian manufacturer specialising in performance turbo systems and upgrades for diesel Toyotas. Our in-house R&D, dyno tuning, and harsh-condition testing ensure every product we release is built to last, whether you're towing across the Nullarbor or crawling through Kimberley river crossings.

**WE DON'T JUST MODIFY –  
WE ENGINEER, TEST, AND IMPROVE.**



# PRODUCT GUIDE

FOR THE F33A-FTV PLATFORM





**FJA300 Airbox**  
A AB GT FJA300

**Description**  
Unrestricted airflow and ultimate dust sealing for maximum engine performance.

**\$1495**



**Fuel Filter Guard**  
FFB SS FJA300

**Description**  
Maximum protection where it counts, shielding your fuel filter from rocks, sticks, and debris.

**\$220**



**Heat Exchanger**  
HE FJA300

**Description**  
Engineered by GTurbo for maximum cooling performance, maintaining lower intake temps and reliable power in all conditions.

**\$2590**

**GTurbo 4" Exhaust**  
E Exhaust 4" SS

**Description**  
Our 4-inch performance exhaust boosts flow, lowers EGTs, and delivers a deep, refined note with full DPf compliance.

**\$3990**



# HIGH-FLOW AIRBOX

## FJA300 SERIES LANDCRUISER

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 anodising, 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 its needed

The factory airbox on the 300 Series restricts airflow and can allow dust ingress in harsh conditions. The GTurbo High-Flow Airbox fixes both issues, delivering higher flow for tuning and towing, with improved dust sealing for engine protection and reliability.



# FUEL FILTER GUARD

## FJA300 SERIES LANDCRUISER

ULTIMATE PROTECTION | PRECISION-ENGINEERED

Protect your Land Cruiser 300 where it's most vulnerable, the rear-mounted factory fuel filter. The GTurbo Fuel Filter Guard is constructed from 3mm 304 stainless steel, shielding your filter from rocks, sticks, and road debris while maintaining service access.



PRICE **\$220**

### Features

The GTurbo Fuel Filter Guard provides full wrap-around protection for the entire filter housing near the right-hand rear wheel. Precision-engineered to mount directly to factory chassis points, it installs cleanly without modification while maintaining OEM alignment and ground clearance.

Its service-friendly design includes drainage and access ports for easy cleaning and filter servicing without removal. Constructed from 3mm 304 stainless steel and TIG-welded for strength, it offers exceptional corrosion resistance and durability for demanding off-road conditions.

### Why its needed

The factory fuel filter is situated exposed beneath the rear quarter, making it vulnerable to impact damage that can cause leaks or contamination. The GTurbo guard provides reliable protection and peace of mind for touring and off-road use, so you can tackle rough tracks without worrying about costly fuel system damage.

# HEAT EXCHANGER

## FJA300 SERIES LANDCRUISER

UNMATCHED COOLING | EFFICIENT | SEAMLESS

The GTurbo Heat Exchanger System is the ultimate cooling upgrade for the Land Cruiser 300, engineered for precise temperature control and sustained performance under heavy load.

Whether towing, touring, or tackling extreme terrain, this air-to-liquid intercooler keeps your FJA300 cool, powerful, and dependable.



PRICE **\$2590**

### Features

After nearly a year of in-house development, GTurbo has produced its most efficient intercooling solution to date. The GTurbo Heat Exchanger utilises a high-performance air-to-liquid core, offering significantly improved cooling performance over traditional air-to-air intercoolers.

Each system is designed to integrate seamlessly with the Land Cruiser 300's factory F33A-FTV engine and cooling system. The upgrade retains all OEM mounting points and plumbing, ensuring a straightforward installation that accommodates both stock and performance-enhanced vehicles.

Proven in harsh Australian conditions, this system provides exceptional temperature stability, keeping intake temperatures consistent and protecting against the heat soak commonly seen in factory intercoolers during extended towing or high-boost operation.

## Why Should I Upgrade My Heat Exchanger?

The factory Land Cruiser 300 intercooler system performs well for standard applications but begins to show its limits under heavy towing, high ambient temperatures, or extended load. Heat soak can reduce cooling efficiency, resulting in power loss, elevated intake temperatures, and reduced torque stability.

The GTurbo Heat Exchanger addresses these issues by increasing cooling capacity and fluid volume, ensuring consistent charge-air temperatures and maximum power retention – even under the most demanding conditions.

For those running GTurbo performance upgrades, this system is essential for maintaining safe intake temperatures, supporting efficient ECU tuning, and preserving long-term engine reliability.

### Performance Benefits



**Enhanced Power and Torque** – Maintains peak output and drivability, even under sustained load.



**Stable Intake Temperatures** – Prevents heat soak for consistent performance and towing stability.



**Improved Cooling Efficiency** – Outperforms all other 300 Series intercoolers tested to date.



**Easy Installation** – No cutting required; only a few holes to drill for secure mounting.



**Long-Term Engine Protection** – Reduces thermal stress, improving engine life and overall efficiency.

### Why Choose GTurbo?

GTurbo's heat exchanger represents the latest evolution in diesel cooling technology, designed, tested, and manufactured in Australia to withstand extreme conditions. It's a proven upgrade for drivers who demand reliability, performance, and durability from their Land Cruiser 300 Series.

For enthusiasts pushing the limits of the FJA300, the GTurbo Heat Exchanger System is the ultimate solution, providing confidence, control, and consistent performance when it matters most.

# POWER PACKAGES

FOR THE F33A-FTV PLATFORM



## Performance Package Summary

Package	Description	Price	
		Supply Only (No Tune)	Supply & Install (With Tune)
<b>1</b>	<p>Essential GTurbo upgrades for enhanced airflow, response, and everyday reliability. Includes:</p> <ul style="list-style-type: none"> <li>• GTurbo Airbox</li> <li>• GTurbo Fuel Filter Guard</li> <li>• Custom ECU &amp; TCU remap</li> </ul>	<b>\$1715</b>	<b>\$4500</b>
<b>2</b>	<p>A performance-focused setup balancing strong torque, improved cooling, and consistent towing power. Includes:</p> <ul style="list-style-type: none"> <li>• Manta/Gturbo 4" Exhaust</li> <li>• GTurbo Airbox</li> <li>• GTurbo Fuel Filter Guard</li> <li>• Custom ECU &amp; TCU remap</li> </ul>	<b>\$5700</b>	<b>\$9100</b>
<b>3</b>	<p>The complete GTurbo performance suite—maximum boost, cooling efficiency, and uncompromised power delivery. Includes:</p> <ul style="list-style-type: none"> <li>• Manta/Gturbo 4" Exhaust</li> <li>• GTurbo Heat Exchanger</li> <li>• GTurbo Airbox</li> <li>• GTurbo Fuel Filter Guard</li> <li>• Custom ECU &amp; TCU remap</li> </ul>	<b>\$8295</b>	<b>\$13100</b>



# PACKAGE ONE

## STAGE 1: STARTER PACKAGE

RESPONSIVENESS | PROTECTION | RELIABLE POWER

### The Ultimate Starting Point for Your FJA300 Land Cruiser

GTurbo's FJA300 Package 1 is the essential first step in improving your 300 Series' driveability, reliability, and towing performance. We address the factory turbo switchover hesitation around 2,000rpm, delivering smoother, more consistent torque through the midrange, exactly where you need it most for touring and towing.

PRICING  
FROM **\$1715**

### What's included?

#### GTurbo Airbox

Designed in-house and CNC machined for a perfect factory fit, our Twin Seal Airbox retains the OEM filter element but features upgraded clamping faces and GTurbo's exclusive double-seal system. This ensures maximum airflow and superior protection against dust and water ingress, critical for engine longevity.

#### GTurbo Fuel Filter Guard

The factory fuel filter on the FJA300 is located in a vulnerable underbody position, making it highly prone to impact damage when off-road. Our 3mm stainless steel GTurbo Fuel Filter Guard is designed to shield the filter from rocks, sticks, and debris, helping prevent breakdowns in the bush.

#### Custom ECU & TCU Remap

ECU and TCU recalibration unlocks the 3.3L twin turbo's full potential with stronger torque, faster shifts, and smoother towing performance.

## Why Choose Package 1?

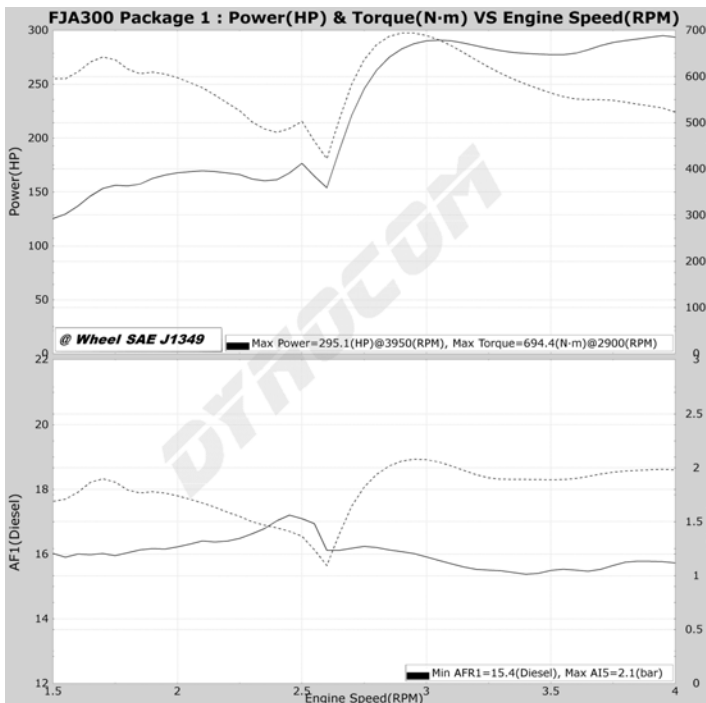
- Fixes the factory turbo lag around 2,000rpm
- Improves towing performance and daily driveability
- Increases airflow while protecting the engine from dust and water
- Shields the vulnerable fuel filter for off-road reliability
- Includes both engine and transmission tuning for seamless performance

## Performance Gains:

Product	Torque (wNm)	Power (whp)
Stock FJA300	580	230
Package 1	700	280

**Note:** Figures based on dyno testing of 300 Series vehicles with typical setups. Results may vary slightly depending on supporting modifications and tyre size.

The dyno graph below, reflects real-world performance of an FJA300 upgraded with a stage 1 performance package.





# PACKAGE TWO

## STAGE 2: EXPLORER PACKAGE

MORE TORQUE | GREATER TOURING CONFIDENCE

### The Midrange Setup for Serious Towing and Touring

GTurbo's FJA300 Package 2 is designed for drivers who want more low-end torque, throttle response, and confidence when towing heavy or heading off-road. Building on the solid foundation of Package 1, this upgrade adds a complete stainless steel exhaust system, improves airflow and filtration, and unlocks even greater performance through custom tuning of both the ECU and transmission.

PRICING  
FROM **\$5700**

### What's included?

#### GTurbo 4" Stainless Steel Exhaust System

Australian-made in collaboration with Manta Performance, this 4-inch turbo-back exhaust system was developed specifically on our in-house 300 Series platform. Constructed from high-grade stainless steel and backed by a 10-year manufacturer warranty, it delivers better flow, lower EGTs, and a deep, refined note, all without compromising DPF compatibility.

In **addition** to all the Package 1 essentials:

#### GTurbo Airbox

#### GTurbo Fuel Filter Guard

#### Custom ECU & TCU Remap

## Why Choose Package 2?

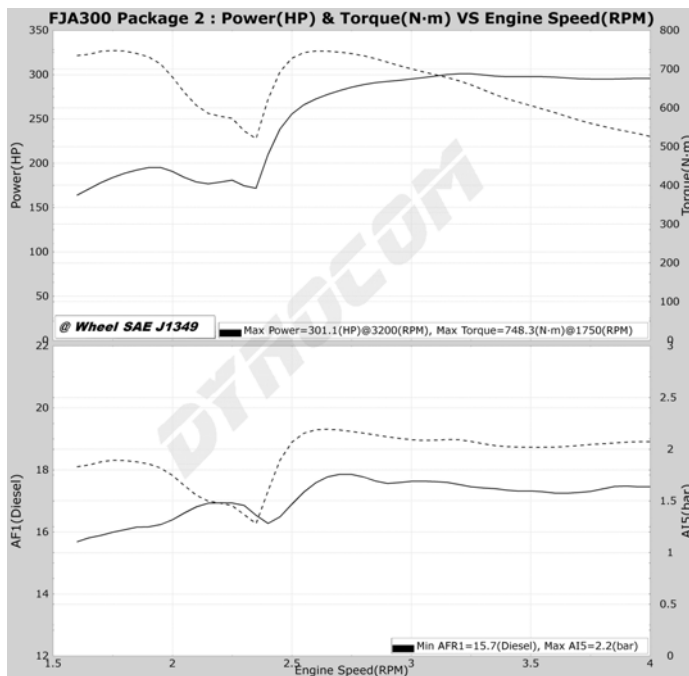
- Fixes turbo switchover lag for better driveability
- Delivers stronger bottom-end torque for towing and off-road performance
- Adds Australian-made 4" stainless steel exhaust with 10-year warranty
- Improves filtration and airflow with GTurbo airbox and filter guard
- ECU and TCU tuning optimised for touring and everyday use

## Performance Gains

Product	Torque (wNm)	Power (whp)
Stock FJA300	580	230
Package 2	750	300

**Note:** Figures based on dyno testing of 300 Series vehicles with typical setups. Results may vary slightly depending on supporting modifications and tyre size.

The dyno graph below, reflects real-world performance of an FJA300 upgraded with a stage 2 performance package.





# PACKAGE THREE

## STAGE 3: ADVENTURER PACKAGE ULTIMATE UPGRADE | UNMATCHED DRIVEABILITY

### Maximum Efficiency, Reliability, Results

GTurbo's FJA300 Package 3 is our top-tier performance kit for the 300 Series Land Cruiser. Designed to tackle the most common weak points of the platform, this comprehensive setup delivers unmatched drivability, cooler intake temps, and reliable power under sustained load. Whether you're towing long distance, hitting the dunes, or planning a remote expedition, this is the package built to go the distance.

PRICING FROM **\$8500**

### What's included?

#### GTurbo Heat Exchanger System (Air-to-Liquid Intercooler)

After nearly a year of in-house R&D, we've released our highest-efficiency intercooling solution yet. The GTurbo Heat Exchanger uses a high-performance air-to-liquid core for superior cooling compared to traditional air-to-air systems. It's been proven to outperform every other 300 Series cooler on the market, making it the ideal solution for long haul towing and hot climate performance.

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

#### GTurbo 4" Stainless Steel Exhaust System

#### GTurbo Airbox

#### GTurbo Fuel Filter Guard

#### Custom ECU & TCU Remap

## Why Choose Package 3?

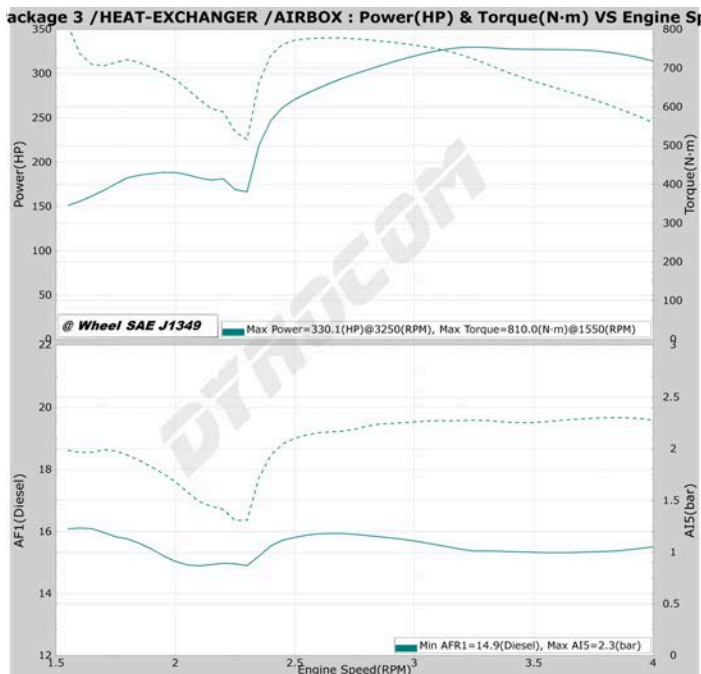
- All components from Package 2, plus our flagship intercooling system
- GTurbo air-to-liquid heat exchanger for best-in-class intake temps
- Improved towing, throttle response, and load stability
- Australian-made hardware built and tested in-house
- Complete performance and reliability upgrade with fully integrated GTune

## Performance Gains

Product	Torque (wNm)	Power (whp)
Stock FJA300	580	230
Package 3	800	320

**Note:** Figures based on dyno testing of 300 Series vehicles with typical setups. Results may vary slightly depending on supporting modifications and tyre size.

The dyno graph below, reflects real-world performance of an FJA300 upgraded with a stage 3 performance package.



# CONSIDERATIONS FOR THE F33A-FTV PLATFORM



## **Turbocharger Chirp / Compressor Surge on Turbo Changeover**

Turbocharger Chirp / Compressor Surge on Turbo Changeover  
Some Land Cruiser 300 owners report a chirp or surging sound under load, especially when towing. This is often due to compressor surge during a turbo changeover in the sequential system. In simple terms, the first turbo is doing the job. Then, at a certain RPM or load, the secondary turbo engages. During this transition, the air pressure dynamics can momentarily upset the compressor, resulting in surge noise.

While this is a known quirk under extreme load, GTurbo has addressed the issue through refined tuning. By making the turbo changeover transition less aggressive, we've been able to significantly reduce or even eliminate the surge noise on upgraded systems.

## **Fuel Filter Vulnerability**

The factory fuel filter on the Land Cruiser 300 Series is positioned underneath the vehicle, near the driver-side rear wheel, an exposed and vulnerable location when driving off-road. Rocks, sticks, and debris can easily strike this area, potentially damaging the filter housing or lines and leaving you stranded.

To address this, GTurbo has developed a 304 stainless-steel Fuel Filter Guard that provides complete protection from impacts while maintaining easy service access. However, even with the guard installed, we recommend periodically inspecting the filter assembly during extended off-road travel. A quick visual check can help detect early signs of damage or buildup, ensuring reliable fuel delivery and preventing unexpected downtime in remote conditions.

## **Secondary Fuel Filters – Choose the Right Micron Rating**

While adding a secondary fuel filter is a popular upgrade to protect the F33A-FTV from contaminated fuel, using the wrong filter can do more harm than good. Many aftermarket kits use a 5-micron element, which is far too restrictive for the factory common-rail injector pump to draw through on its own.



This restriction causes the pump to struggle, leading to internal wear and metal contamination. Over time, metal from the pump can circulate through the fuel system and even make its way back into the fuel tank, risking widespread damage. We strongly recommend using a 30-micron filter at a minimum for secondary filtration. If you plan to run anything finer, a quality lift pump is essential to relieve strain on the injector pump and maintain long-term reliability.

## **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.

## **Engine Oil Viscosity & Heavy-Duty Use**

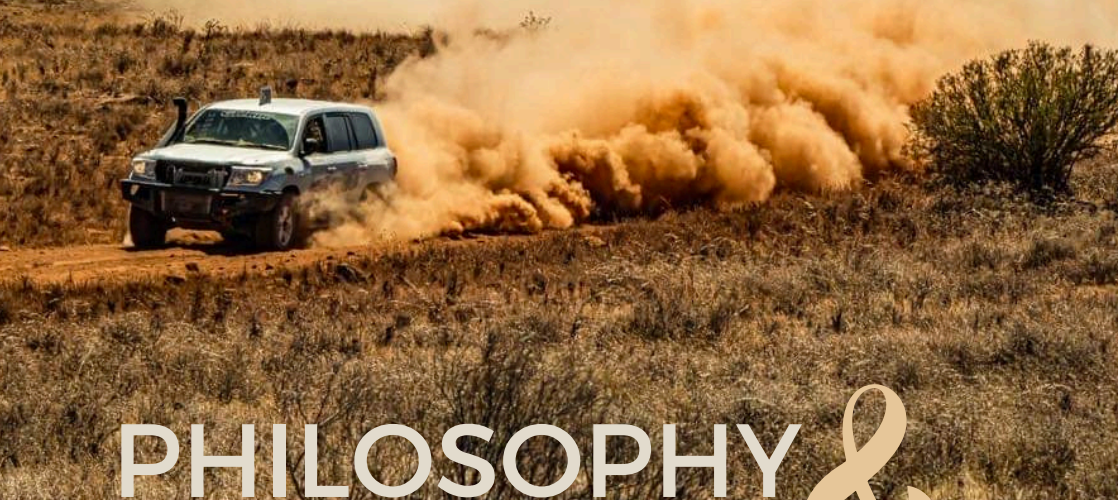
When towing or running higher boost, oil temperature and pressure rise sharply. The FJA300's factory 0W-20 oil can thin out under these loads, reducing film strength and protection. For sustained heavy use, a high-quality 5W-30 ACEA C5/C2 oil is recommended.

Thicker oil maintains lubrication and stability under heat, while still meeting DPF-safe requirements. Always monitor oil levels and shorten service intervals when operating in high-load or high-temperature conditions.

## **Always Remember**

We're here to help whenever you need us! You can find our contact details on page 31.





# 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 TURBO**

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.

**18 Abrams Street, Balcatta,  
Perth, WA 6021,  
Australia**

(08) 9240 8715  
+61 401 524 399  
[www.gturbo.com.au](http://www.gturbo.com.au)  
[sales@gturbo.com.au](mailto:sales@gturbo.com.au)

## **Opening Hours**

Monday – Friday:  
8:30 AM – 4:30 PM

Saturday – Sunday:  
Closed

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