

# PPFOR15.4 Ford Ranger 3.2lt Auto & Manual 2010-2014 NEWQ4

[unichip.com.au/ppfor154-ford-ranger-32lt-auto-manual-2010-2014-newq4](http://unichip.com.au/ppfor154-ford-ranger-32lt-auto-manual-2010-2014-newq4)



PPFOR15.4

## Short Description:

MODEL: 2010- 2014

ENGINE: 3.2lt

DRIVER: PD6 - PIEZO DRIVER

UNICHIP: Q4



The Unichip version Q4 fitted to this Ford Ranger  
2010-2014 Automatic.

Increased the power by 21% at the wheels, see the dyno power results below:

### Power Increase displayed on the graph below:

From a stock 114kw at the wheels

To an amazing 138.3kw at the wheels

### The "Low down" torque displayed on the graph below:

128nm or 34% increase in torque

From 370nm

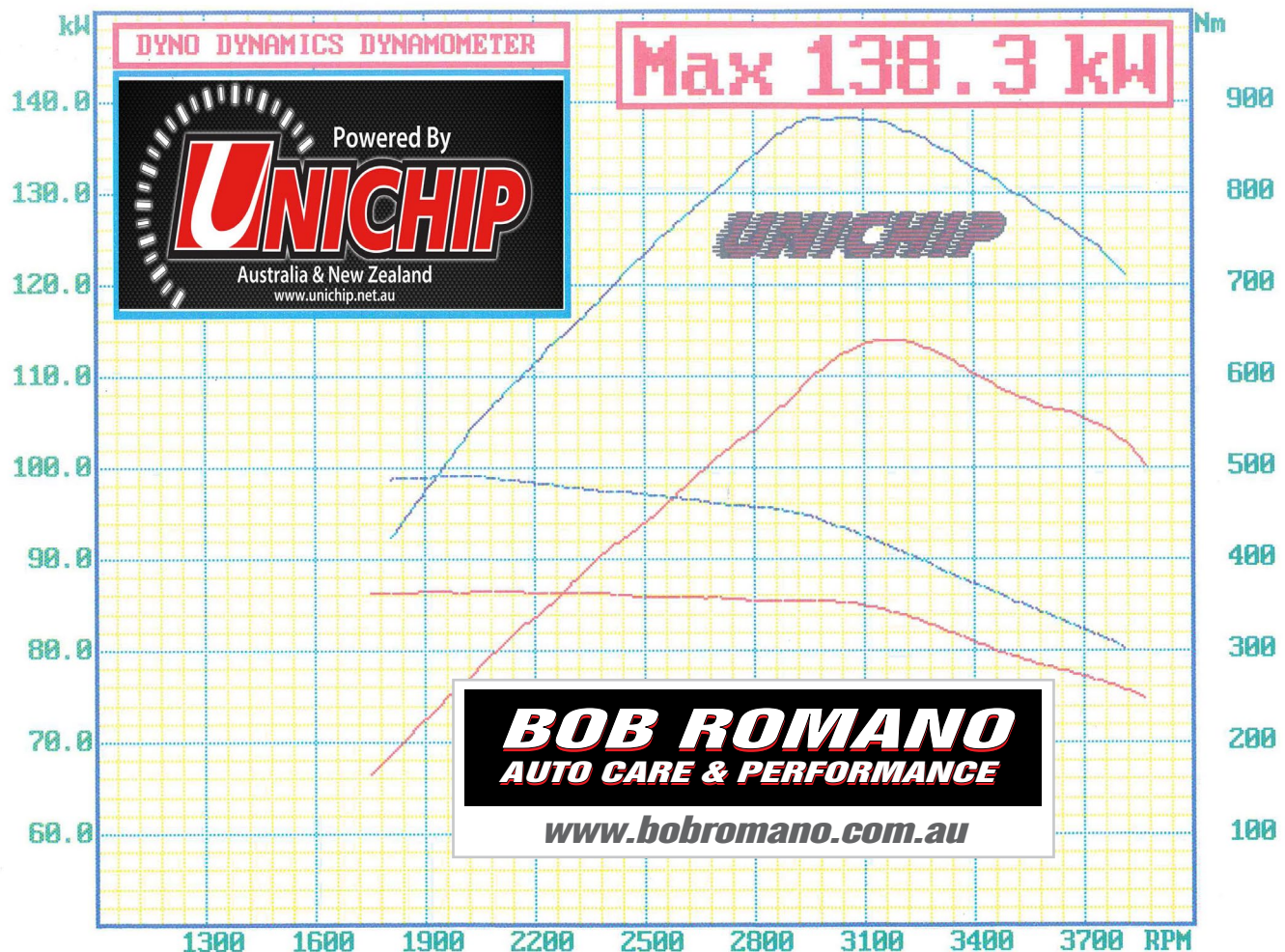
To 498nm

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### How does the Unichip work on your Ford Ranger / Mazda BT50 Turbo Diesel.

- **Boost Control:** Unichip has complete 3D control over boost pressure across the entire operating range of the engine. This allows the Unichip Trained technician to increase the boost pressure as required. This helps in keeping the Air Fuel Ratios within a safe limit.
- **Injector timing:** This is a unique Unichip feature to have complete 3D control of injector timing. This means we can control the exact time they open to achieve optimised fuel burn. This will result in lower exhaust gas temperatures and greater engine longevity.
- **Fuel Rail Pressure:** Unichip has full 3D control of Fuel Rail pressure, the simplest way to increase power on a turbo diesel. However there are rules to follow when increasing fuel rail pressure, these are taken into consideration from all of our trained Unichip Authorised agents.
- **Injector Driver:** This feature allows the Unichip to have full 3D control of the Diesel Injectors via the Unichip PD6 driver for greater performance and flexibility.

### What are the other advantages to the Unichip Q4?

- **Throttle Booster:** This feature enables the Unichip Q4 to achieve a faster throttle response and reduce turbo lag. Some people pay upward of \$800 for a pedal booster kit. This is a standard feature in the Unichip Australia Plug & Play.
- **Water temp Protection:** This is the "built in" safety feature of the new Unichip Q4 we have the ability to monitor

engine temp via the coolant temperature sensor. This allows the Authorised Unichip agent to manipulate the tune on a sliding scale as the engine temperature rises. Meaning: As the engine temperature rises the Unichip Q4 will intercept a signal, removing the fuel, boost and timing, slowly and in a controlled fashion to ensure it maintains maximum power and torque output, without compromising the engine.

### **Optional Extras**

- **Map Select:** This option enables the 5 map capability of the Unichip Q4. This means you can access the 5 maps which can be tailored to your requirements. EG, High Power Map, Towing Map, Standard Map, Immobiliser Map or Even a High Boost or Low Boost Map. Speak to your Authorised Unichip agent to tailor 5 tunes to suit your application.
- **EGT protection:** This is the “add on” safety feature of the new Unichip Q4 we have the ability to monitor engine exhaust temp via the Unichip EGT sensor. This allows the Authorized Unichip agent to manipulate the tune on a sliding scale as the Exhaust temperature rises. Meaning: As the exhaust temperature rises the Unichip Q4 will intercept a signal, removing the fuel, boost and timing, slowly and in a controlled fashion to ensure it maintains maximum power and torque output, without compromising the engine.

Plug and Play pricing does not include fitting and tuning. Plug and Play Unichip will require fitting and tuning from Authorized Unichip agent.

For a look at the "Project Ranger" see the video below:

**The table below refers to results form a 2014 Ford Ranger 2.2lt  
Fitted with PPFOR15.4 and custom dyno tune.**

### **Power Results:**

Before: 92kw at the wheels.  
After: 115.5kw at the wheels.

### **Torque Results:**

Before: 310nm at the wheels.  
After: 405nm at the wheels.



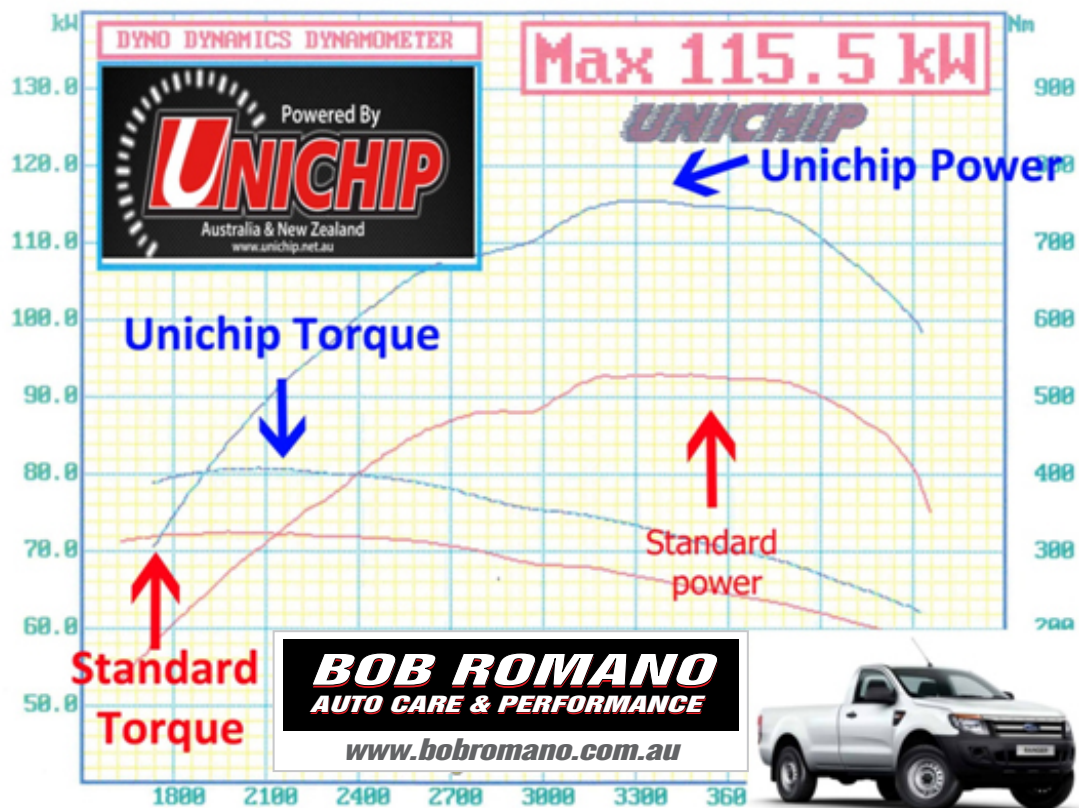
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