

turbo-zone

Insider Turbo knowledge for the garage professional

CELEBRATE OUR 40TH ANNIVERSARY

**WIN A TRIP
TO THE
ABU DHABI GP**
OR one of 40 BTN Turbo goody bags

SUPPORTED BY
Garrett®
by Honeywell



Turbos are back
in F1!

Win prizes as
BTN turns 40!

The future is
turbocharged!

The rise and rise of the turbo

Less is more

Turbocharging is helping achieve greater efficiency from compact units.

Engines are getting smaller yet more powerful, and up to 40% more fuel-efficient. Key manufacturers are focusing on downsizing to three cylinder petrol designs of around 1 litre, which are lighter and smaller than a traditional 1.6 engine yet just as powerful.

For example, Ford has launched its award-winning 1.0 litre three cylinder turbocharged EcoBoost engine and expects to produce more than 1,000 engines a day, so it's likely to be a power unit you'll see more of. Vauxhall has recently released its all-alloy 1.0 litre ECOTEC direct injection turbo, claiming it generates more torque than a normally aspirated 1.6 litre.

Then there's the PureTech e-THP engine available on the new Citroen C4 and Peugeot 308. Fitted with a

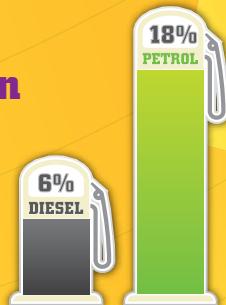


Ford's new EcoBoost engine



MILLION turbo sales per year by 2017

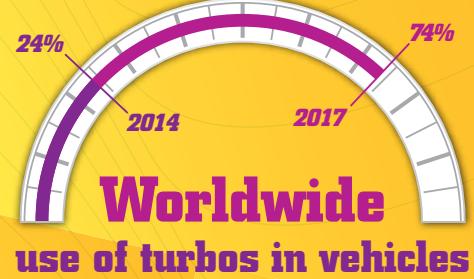
Increase of turbos in passenger cars from now to 2017



new Garrett turbo applications in 2014



Peugeot's PureTech e-THP 3 cylinder engine



Worldwide use of turbos in vehicles

A racing start for

BTN performance

BTN Turbo's specialist performance outlet has raced off to an impressive start, with word spreading fast among enthusiasts and the motorsport trade.

Aimed at builders of drifting, racing, rallying and street-legal fast cars, BTN Performance offers ancillaries and fabrication parts from Vibrant, engine management systems from AEM, as well as performance turbos and components from all the major turbo manufacturers.

Many of the parts are useful for ordinary road-going applications too, and all are available from the online shop at www.bnpproducts.com, with a rapid shipping service.

BTN Performance also has a loyal and fast-growing following on Facebook, offering insights, owners' turbocharged cars, competitions and discussions. Look for BTN Performance on Facebook.

Turbos

RETURN TO F1



Turbochargers are back in Formula One, as an integral part of new power units having a dramatic impact on the sport. The 2014 engine has been downsized to a 1.6 V6, yet still produces about 600bhp, with an extra 160bhp provided by electric energy recovery from the brakes and the turbocharger.

GARRETT INVOLVEMENT

Making their contribution to the F1 turbo revolution is Garrett, whose Honeywell parent company is helping develop the turbochargers on the Ferraris of World Champions Fernando Alonso and Kimi Raikkonen.

CHALLENGING THE DRIVERS

The sound produced by the engines may not be as thrilling, but the spectacle certainly is, with power and torque delivery that makes the cars more challenging to drive. After years of seemingly cornering on rails, we're once again enjoying the sight of F1 cars sliding out of bends.

THE WAY AHEAD FOR ROAD CARS

With a fuel limit of 100kg (35% less than 2013) and a flow rate of

100kg/hr, pre-season pundits expected some cars to run dry before the end of a race. While fuel management hasn't been as much of a problem as feared, successfully managing the balance between internal combustion and electrical power is proving to be a race-winning factor. The lessons learned in efficiency are expected to directly benefit road vehicles, leading to ultra-economical engines in the future.



*And you can **WIN** a trip to the Abu Dhabi F1 GP!*

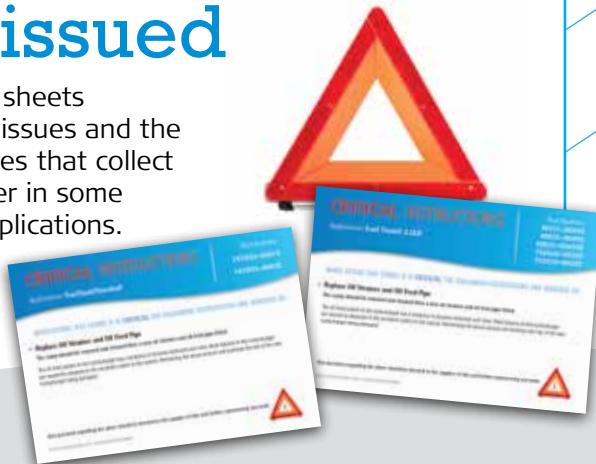
OR one of 40 BTN Turbo goody bags. See flap for details.

New Critical Instructions issued

Two more critical instructions have been added to our range of sheets to help you achieve successful, trouble-free replacement turbo installations.

Based on feedback from vehicle technicians, factors and turbo manufacturers, the instruction sheets highlight potential problems.

Not surprisingly the latest sheets concentrate on oil related issues and the damage caused by abrasives that collect in the sump and oil strainer in some Fiat, Saab and Vauxhall applications. A similar instruction has also been issued for the Ford Transit 2.5LD.



BTN Turbo is 40!

They say time flies when you're having fun. Maybe that's why it's so hard to believe BTN Turbo really is 40 years old this year!

BTN started out in a garage in Hanwell, West London in 1974, remanufacturing turbos for Ford D Series commercials. The three man organisation has grown just a bit since then – BTN Turbo now employs over 50 people and has become the largest independent turbo distributor in the world.

Undoubtedly the most significant event in BTN Turbo's recent history was the move to the new Uxbridge premises in 2009. With 27,000 sq ft of warehouse, factory and office space, and much easier road access and parking, BTN now has ample room to store a vast range of turbochargers. There are usually 18,000 in stock, ready for despatch across the UK.

What did things cost in 1974?

In 1974 a gallon of petrol cost approximately 50p. That's around 11p per litre. A large loaf of bread was around 15p. The average house price in the South was £10,000. If all this sounds too good to be true, it's worth noting that the average annual wage was £3,023.



Whichever turbo you choose from BTN it's always 100% OE.

All turbos supplied by BTN Turbo are 100% Original Equipment, exactly as the vehicle manufacturer fitted.



**Brand New
First Fit
OE Turbos.**



**Original
Manufacturers
Reman Turbos.**

All turbos have a 2 year warranty and are supplied with FREE FitKit and fitting instructions.



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**WIN A TRIP
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Contact your factor and buy a turbo supplied by BTN from now to the end of September and you could win:-

Star Prize

Our star prize is a trip for two to the Abu Dhabi GP, the final F1 GP of the 2014 season.

A goody bag

To celebrate the 40th Anniversary of BTN Turbo we're giving away 40 goody bags containing T-shirts, Beanie hats, turbocharger key rings, tea, coffee, biscuits, chocolate and sweets.

All you have to do to win

Just buy a turbo supplied by BTN Turbo, from now until the end of September, complete the entry form that's in the box, return it to us and you'll be entered into our prize draw for the chance to win one of our Anniversary prizes. If you're lucky enough to win a goody bag your ticket will still go into the draw for the Abu Dhabi GP star prize. Full terms and conditions appear on the entry form in every box.

SUPPORTED BY

Garrett®
by Honeywell

Expertly remanufactured turbos, from the turbocharger experts.



The Garrett Original Reman range of turbos is your ultimate assurance of quality, performance and reliability in OEM remanufactured turbochargers. And as you'd expect, they're available from BTN Turbo – the UK's only Official Garrett Aftermarket Distributor.

Supplied with extras from BTN

That means you benefit from exceptional service, knowledge and support. Along with our expert advice, we'll supply your Garrett Original Reman turbo with a free FitKit including gaskets, oil injector and fitting instructions, and our two year warranty. We can also supply oil feed pipes for recommended applications.

Make sure of the perfect fit

For replacement OEM turbos that offer superb value and complete peace of mind for popular older vehicles, ask your factor for Garrett Original Reman turbos supplied by BTN. **BTN and Garrett – The Perfect Fit.**

Garrett®
by Honeywell



The turbocharger people

BTN Turbo is the world's largest independent turbo supplier. Over 18,000 OE turbos in stock, new first fit or remanufactured by the original manufacturer. All with 2 year warranty.

Contact your local factor for a BTN Turbo or call us to find your local stockist.

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