



The turbocharger people

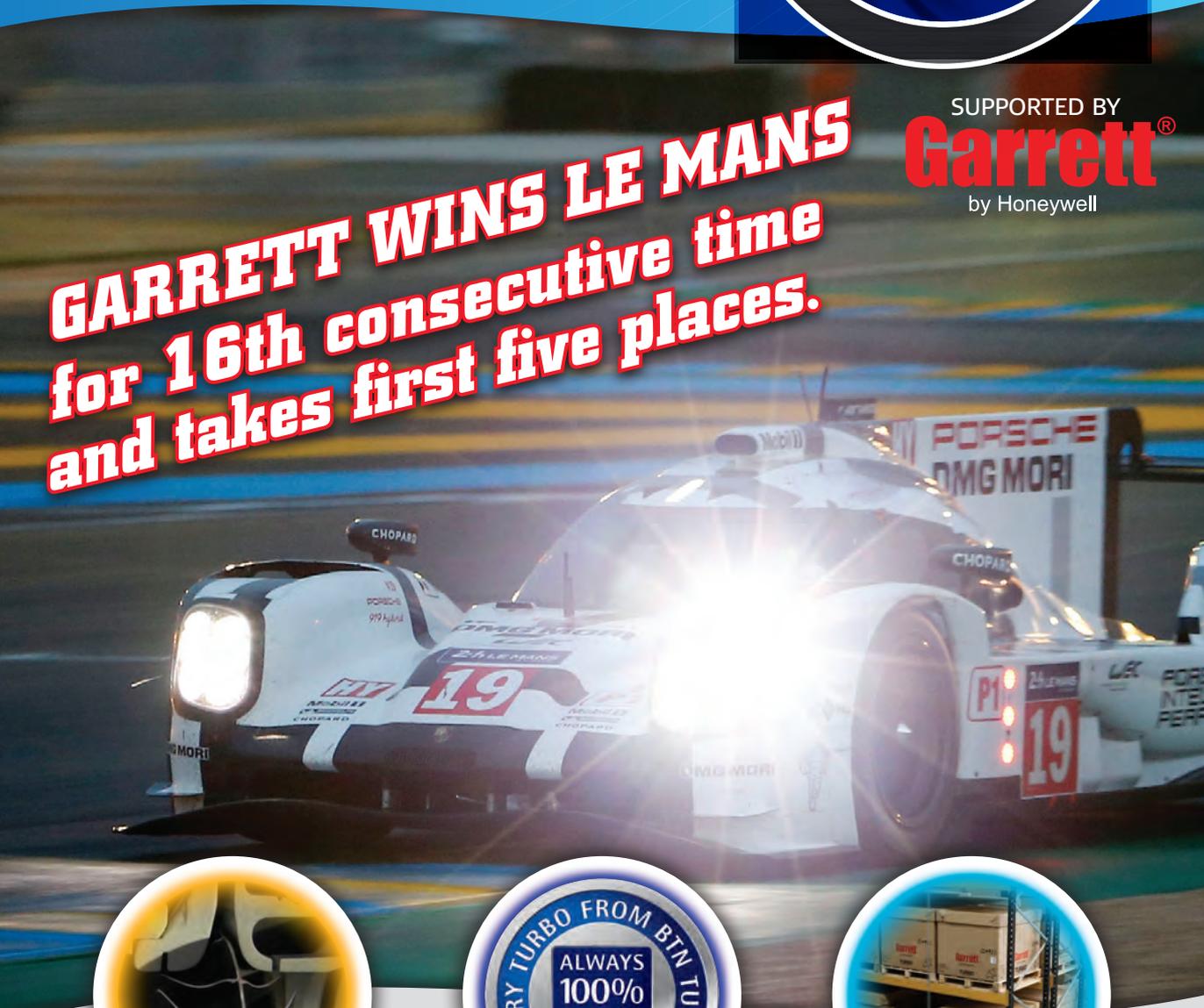
turbo-zone

Insider Turbo knowledge for the garage professional



GARRETT WINS LE MANS
for 16th consecutive time
and takes first five places.

SUPPORTED BY
Garrett®
by Honeywell



DualBoost™ with
double compressor



Reasons to choose
BTN Turbo

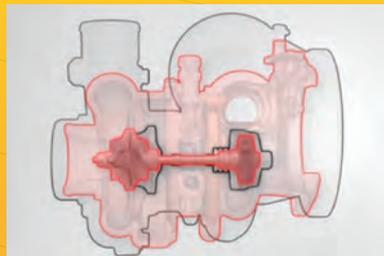


18,000 OE Turbos
ready for you

The winner is the DualBoost™



Garrett's DualBoost™ turbo combines axial flow with a double-sided compressor.

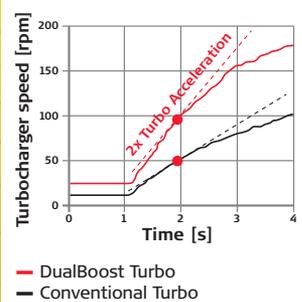
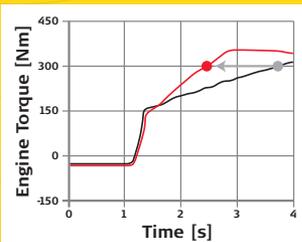


The package is lighter and smaller than an equivalent standard turbo.

Last time in Turbozone we explained how Garrett's DualBoost™ Twin-Flow turbo generates exceptional boost and torque from a compact package. Now here's the proof: Porsche 919 Hybrids using DualBoost turbo technology were 1st, 2nd and 5th in the 2015 Le Mans 24 Hours, one of the world's toughest motor races.

With its double-sided compressor and axial flow, DualBoost provides 25 - 30% better response for improved acceleration and greater efficiency, yet is 20% smaller than a conventional turbo. Already used in diesel vehicles, Garrett's DualBoost will be fitted to petrol production vehicles soon.

Audi R18 e-tron cars with Garrett VNT turbos finished 3rd and 4th. Garrett turbos have now powered the winning car at Le Mans for the last 16 years - an incredible record.



Reduced inertia and optimum airflow mean faster response and more torque.

More turbos in the range for 61 extra apps.



We already stock the UK's largest range of turbos and are always adding more. Now we've released 28 new turbos, covering 61 applications including Nissan, BMW and Volkswagen. These latest releases include both Brand New and Original Manufacturer's Remanufactured turbos.

You can see the whole range of turbos supplied by BTN Turbo, plus information on turbo diagnostics and replacement, at www.btnturbo.com

All turbos supplied by BTN Turbo to your factor are 100% OE and covered by a two year warranty. The vast majority also include free FitKits for easier fitting.



www.btnturbo.com

Our turbocharged service is second to none.

When you ring our sales team at BTN Turbo, you'll know you're benefiting from expert knowledge.

With their in-depth expertise, and drawing on BTN's experience of more than 40 years in the turbo business, they'll answer your technical questions and make sure you get the right turbo first time.

Fast track to 18,000 turbos

Your turbo will arrive quickly too, thanks to our vast warehouse in Uxbridge, close to the M4. It houses more than 18,000 OE new and reman turbos, covering over 2,500 part numbers, for all the popular applications and many more.

Order from your Factor

Once your order is placed by your Factor, the correct replacement turbo will be on its way to you for next day delivery.

You'll have the reassurance of a 100% OE turbo, supported by a two year warranty. Plus the satisfaction that this quality and service won't necessarily cost you more than other suppliers, and may even cost you considerably less.



Euro helps you save on turbo prices by up to 30%

The strength of the Pound against the Euro means the cost of importing goods manufactured in Europe has dropped. We're passing on these savings to the trade by cutting the price of hundreds of turbos by up to 30%.

The new savings apply to both Brand New and Original Manufacturer's Remanufactured turbos supplied by BTN Turbo.

Brand new turbos supplied by BTN come direct from the main manufacturers, including Garrett, BorgWarner, Holset, Mitsubishi, Schwitzer and IHI.



Original Manufacturer's Remanufactured turbos are available exclusively through the BTN Turbo OMX programme and offer savings of up to 40% compared to Brand New units. They're expertly rebuilt and calibrated by the original manufacturer to be totally compatible with the vehicle's ECU – so compared to recon or other reman turbos, you know exactly what you're buying.

Garrett[®]
by Honeywell



BorgWarner



MITSUBISHI
TURBOCHARGERS

IHI

HOLSET[®]
TURBOCHARGERS

 **Switzer**

BTN Turbo is the only UK supplier of all major turbocharger brands.

Hot turbo topics

– how to deal with some frequent failures

Turbochargers are very reliable. When they fail, the cause is usually elsewhere in the engine.

At BTN Turbo we use feedback from workshops and warranty claims to produce Critical Instructions for certain turbos. You can check them before fitting a replacement turbo, to help prevent the same problem recurring. Here are some of the latest examples.

Restricted breathing

A clogged engine breather system on some BMW and Land Rover diesel engines can restrict oil flow and increase sump pressure. Oil is forced from the compressor and turbine end of the turbo and the customer suddenly notices blue engine smoke.

This can show up after a new turbo is fitted, but might not have been apparent before. We recommend fitting a new breather filter when you replace the turbocharger.

Stuck EGR

The EGR valve on the Vauxhall Astra, Corsa, Combo and Meriva 1.7D is prone to carbon/exhaust soot deposits which make it stick, rapidly causing turbocharger damage. We advise removing the exhaust manifold, checking for carbon/soot build up, and cleaning or replacing the EGR valve.

Debris damage

The VAG 1.9TD seems particularly prone to small items falling into the turbo and damaging the vanes. BTN Critical Instructions recommend checking the air intake and engine breather pipework for debris or dirt before cleaning or replacing.

Oil problems – the biggest turbo killers

The Ford Transit 2.5LD can suffer from oil feed blockages and abrasive contaminants in the sump, damaging the turbo through oil starvation and scored bearings. We recommend removing and cleaning the sump, and replacing the oil strainer and feed pipe before you change the turbo.

Oil problems are responsible for the vast majority of turbo failures. So even if the vehicle you're working on isn't covered by one of our Critical Instructions, checking the oil supply is vital to help avoid a repeat of the turbo failure.

BTN Turbo – turbocharger expertise

Established in the turbocharger business for over 40 years and acknowledged as the turbo experts, BTN Turbo is the UK's largest independent turbo distributor. Our Critical Instructions are available free at www.btnturbo.com



A stuck and clean EGR valve.



Foreign object damage, oil contamination and oil starvation are the three main turbo killers.

Need to replace a turbo?



Have you diagnosed why it failed, so it won't happen again when you fit the replacement turbo?

No → 95% of all turbo failures are due to problems with oil supply: starvation, leaks or contamination.
Yes → **Good** → Now let's find a replacement turbo that suits your requirements.

95% of all turbo failures are due to problems with oil supply: starvation, leaks or contamination.

Don't blame the turbo

Less than 1% of turbos fail due to manufacturing faults, so thoroughly investigate the reason for failure.

Now let's find a replacement turbo that suits your requirements.

Cost-conscious client or older vehicle?

REPAIRED OR RECONDITIONED

Proceed with caution.

Do you know what's been done and where the spares came from? Garrett doesn't sell replacement components so it will have pattern parts or old, worn parts.

If you don't trust it

Do they have a flow bench to calibrate the turbo accurately? If not, it may be down on power, overboost or fail emission standards.

Is it worth losing a customer, or having to do the job twice? You could choose BTN and have peace of mind.

Good luck.

Good choice
Wise Move



Supplied exclusively by BTN this turbo will have been totally stripped and remanufactured by the Original Manufacturer.

Fully calibrated and programmed to the ECU.

Exchange surcharge applies.

And you get these

2 year warranty.

Free FitKit and fitting instructions Included.



Phone your factor and ask for a turbo supplied by BTN Turbo.

That was easy



Supplied by BTN this turbo will be exactly the same as originally fitted and totally compatible with the car's ECU.

And you get these

No surcharge or exchange required.*
*Exchange required for commercial vehicle turbos

2 year warranty.

Free FitKit and fitting instructions Included.



why risk it?



Garrett®
by Honeywell

A cheap turbo could save your customer £200 today, but cost YOU £700 tomorrow AND you could lose a loyal customer.

With a Genuine Garrett® remanufactured turbo, you get original quality replacement components and world-class assembly, guaranteeing performance and reliability. With a cheap non OE specified turbo, you risk poor quality components, engine damage, incorrect calibration and failure to meet emissions. **WHY RISK IT?**

Ask your factor for a Genuine Garrett® remanufactured turbo available exclusively from BTN Turbo, the Master Distributors in the UK for Garrett by Honeywell turbochargers - btnturbo.com

What's the true cost of installing a cheap turbo? Learn more: Garrett.honeywell.com/WhyRiskIt

* Example used is for illustrative purposes only

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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 turbo supplied by BTN Turbo or call us to find your local stockist.

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