

S291 - DATA SHEET

BMW 3.0i N55

Hybrid Turbocharger

Stage 1 - 470bhp

Stage 1 performance turbocharger upgrade for BMW 3.0i N55, capable of supporting up to 470 bhp.*

Designed, developed and manufactured in-house at Turbo Technics.

Direct fit for a straightforward installation.

Specification

- TT designed large trim T36 billet compressor wheel (reverse rotation)
- TT designed T36 turbine wheel (reverse rotation)
- Compressor housing CNC re-profiled for upgraded compressor wheel
- Turbine housing CNC reprofiled for upgraded turbine wheel
- Stub-shaft diameter increased to improve strength under high loading
- TT designed bespoke journal bearing
- TT designed upgraded 360° thrust bearing assembly
- Bearing housing modified for upgraded thrust bearing assembly and bespoke backplate
- Bespoke designed seal plate, machined from billet
- TT designed heatshield to match turbine wheel upgrade, machined from solid stainless steel
- Core assembly balanced to high speed on Turbo Technics VSR ® balancing machine

Please contact us for current lead times and prices on 01604 705050 or email enquiries@turbotechnics.com

TURBO TECHNICS

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The logo for Turbo Technics features the word "TURBO" in a large, bold, grey sans-serif font above the word "TECHNICS" in a smaller, bold, blue sans-serif font. To the right of the text is a stylized graphic element consisting of a grey horizontal bar above a blue horizontal bar, both with a slight 3D effect and a white shadow on the top edge.

www.turbotechnics.com

S291 - Additional Information

The S291 was designed specifically to overcome some of the limitations of the vacuum actuated boost control system on earlier vehicles, but the benefits of the efficient design are just as applicable to later electrically actuated vehicles too. As such, the S291 is available for all variants of N55 turbochargers. The 470bhp figure stated is for a vacuum actuated vehicle running a relatively conservative map with moderate boost. An electrically actuated vehicle may well see higher power with the right hardware and more boost. Please note that due to minor differences in actuator position and wastegate arm design it is best to convert a customer's own unit.

Supporting Modifications

*Effective operation of the turbo will require the following supporting modifications as a minimum:

- Engine management re-map
- Induction kit or suitable intake upgrade
- Front-mounted intercooler upgrade
- Full turbo-back free-flow exhaust system

Application Details

Vehicle(s)

BMW – 135i/M135i/M235i/335i/435i/535i/640i/740i/X1/X3/X4/X5/X6

Model Year(s)

2010-2013

Engine Code(s)

N55B30M0 N55B30 N55B3000

Manufacturer Part Number(s)

1853-970-0000 1853-970-0001 1853-970-0002 1853-970-0003 1853-970-0004 1853-970-0005 1853-970-0006
1853-970-0007 1853-970-0010

Availability and Purchase

Stock Status: Built to order

This unit is available as a conversion carried out on a customer-supplied unit only.

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