# POWERMAX™ DIRECT FIT PERFORMANCE TURBOCHARGER

**2020+ Volkswagen | Audi | Skoda | Cupra | Seat 2.0L EA888 Engine**

PowerMax™ direct fit performance turbocharger kits are engineered for increased engine performance while maintaining OEM direct fitment.

| | |
|---|---|
| CERT #: | SC-GRT01-0055 |
| COMPANY NAME: | Garrett Transportation I, Inc. |
| PRODUCT CATEGORY: | Turbocharger Modification |
| PRODUCT NAME: | VW 2.0L MK8 S1 |

*CARB Certification Pending

Garrett
ADVANCING MOTION

*The Federal Clean Air Act prevents the modification of vehicles with products that impact emissions unless the product has demonstrated a reasonable basis for claiming emissions compliance. The EPA's Tampering Policy provides guidance for such a demonstration, and SEMA Certified-Emissions is designed to provide documentation for assurance of 49-state legality when used as an OEM replacemet.*

*Legal in California only for racing vehicles which may never be used, or registered or licensed for use, upon a highway. Installation may affect vehicle emissions, safety, warranty, and operating license. For details, contact your vehicle's manufacturer or turbo kit distributor.*

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Introducing the Garrett PowerMax™ turbocharger upgrade for the 2.0L EA888 Evo4 engine platform. Engineered by enthusiasts, for enthusiasts, this turbocharger upgrade isn't just about boosting your engine's capabilities, it's also about packaging it into your vehicle's existing OEM setup. This complete turbocharger with electronic actuator can help the engine produce up to an impressive 447BHP (333 kW), as proven by on-vehicle results.

GTX Gen II compressor aerodynamics increase turbocharger flow by a staggering 32% compared to the OEM turbo. Embrace the future of power with the high-temperature Mar-M alloy turbine wheel, paired with state-of-the-art turbine aerodynamics and a robust twin scroll stainless steel turbine housing capable of withstanding up to 1050°C of heat. Elevate your driving game, and experience performance like never before with PowerMax™.

### Turbocharger Reference Data:

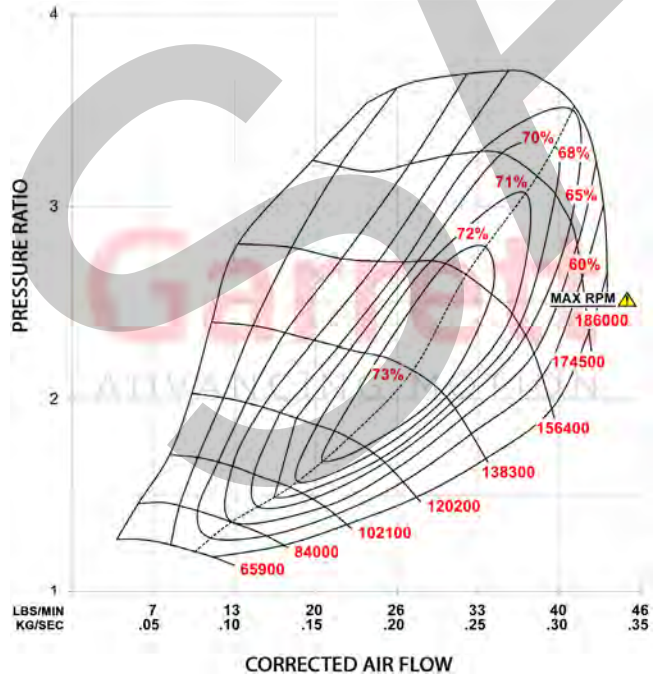
| Part Number | Power | Model | Comp Ind | Comp Exd | Turb Ind | Turb Exd |
|---|---|---|---|---|---|---|
| 917056-5002S | 447BHP (333kW) | GT2260S | 47mm | 60mm | 50mm | 45mm |

### Vehicle Applications:

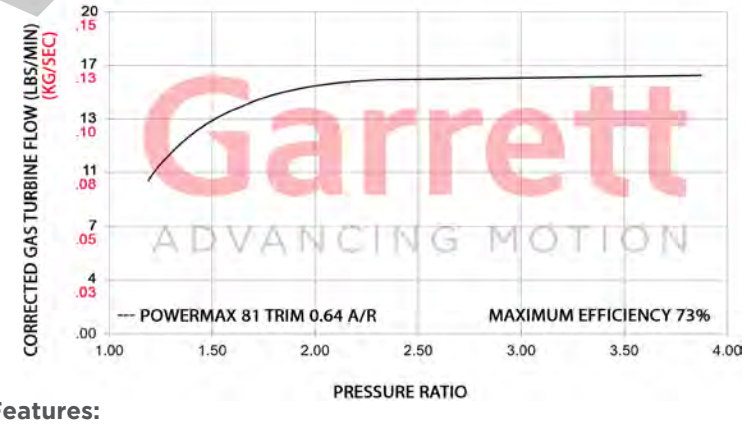
| Make | Model | Region | Year | Engine | OEM Turbo |
|---|---|---|---|---|---|
| VW | Golf GTI | North America | 2022+ | 2.0L EA888 Evo4 L4 - Gas | 06Q145702B |
| VW | Golf GTI | Europe | 2020+ | | |
| VW | Tiguan 2.0 TSI | | 2020+ | | |
| Audi | Q3 45 TFSI 2.0 | | 2021+ | | |
| Audi | TT 45 TFSI 2.0 | | 2020+ | | |
| Skoda | Kodiaq RS TSI 4x4 | | 2021+ | | |
| Skoda | Octavia RS | | 2020+ | | |
| Cupra | Leon 2.0 TSI | | 2021+ | | |
| Cupra | Formentor 2.0 TSI | | 2021+ | | |
| Seat | Tarraco 2.0 TSI | | 2021 | | |

• Garrett is the OEM turbocharger for this application. For regions and applications not listed above please reference the OEM turbo part number for fitment.

### Compressor Map




### Exhaust Flow Chart




**Features:**

- Complete assembly with electronic actuator
- +32% compressor flow compared to the OEM turbo
- GTX Gen II compressor aerodynamics
- Mar-M alloy turbine wheel and twin scroll stainless steel turbine housing rated up to 1050° C
- Latest generation of journal bearing rotating group with 360° reinforced thrust bearing

CATO

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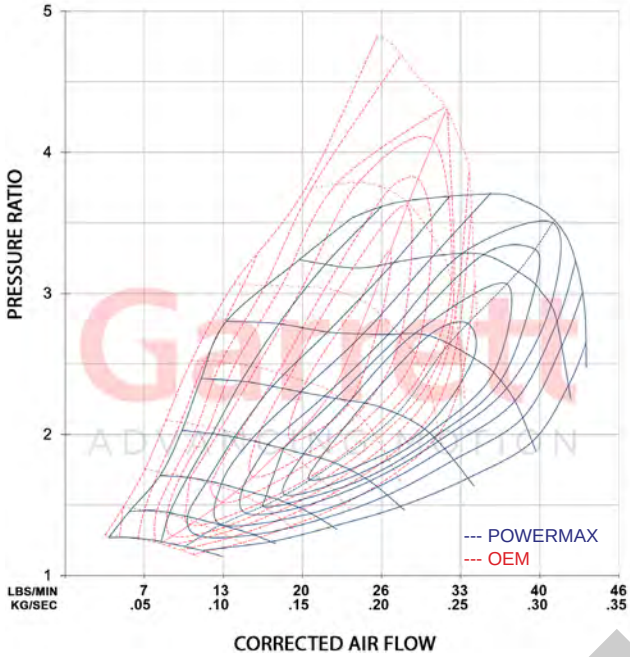
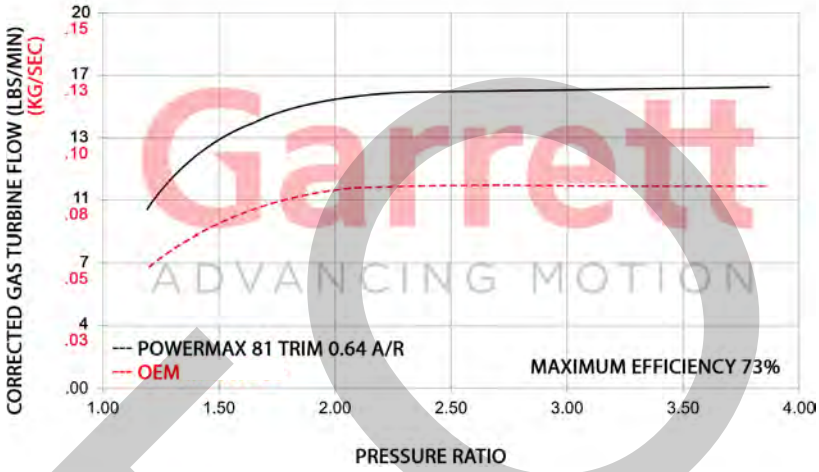
## PowerMax VS OEM Turbo Overlay

### Compressor Map




### Exhaust Flow Chart

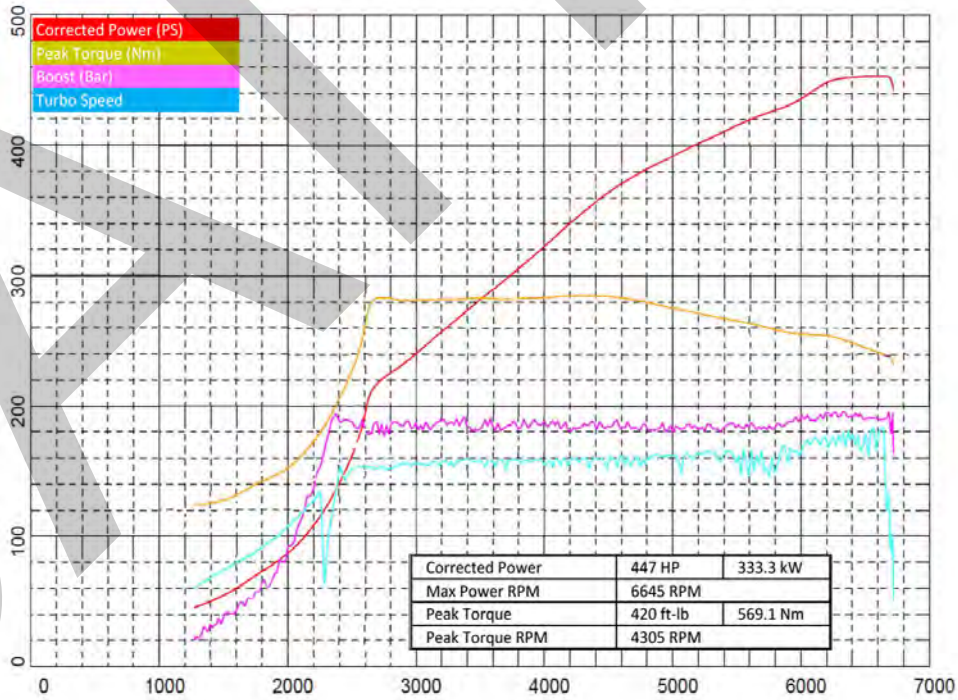



- Direct-fit turbo with 447BHP (333kW) capability (on-vehicle results)*
- +32% compressor flow compared to OEM turbo
- +50% turbine flow compared to OEM turbo

## On-Vehicle Test Data: VW Golf GTI 2.0L TFSI (EA888 Evo4)

**Vehicle Modifications:**

- Location: Germany
- GTI 2.0L TFSI (EA888 Evo4)
- 917056-5002S Turbocharger
- Stock intercooler
- Custom downpipe
- Stock fuel system
- Fuel - 98 octane unleaded




**WARNING:** Maximum allowable turbocharger speed is 186krpm. The use of this product above max turbocharger speed is at the owner's risk, and can result in damage and premature failure. To protect the turbocharger from overspeed when operating, a speed sensor port is machined into the compressor housing for the fitment of speed sensor part numbers 781328-0003 (includes sensor and gauge), and 781328-0004 (includes speed sensor). Speed sensors are sold separately.

** Performance results of this product are highly dependent upon your vehicle's modifications and tuning/calibration. The horsepower numbers represented above are based on actual on-vehicle testing.*

SAMPLE