

TURBOCHARGER



POWERMAX™ DIRECT FIT PERFORMANCE TURBOCHARGER

2020+ Volkswagen Golf R | Audi | Cupra | 2.0L TSI EA888 EVO4
Rated up to 550BHP | 410kW Power Capability

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

Garrett
ADVANCING MOTION

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 2020+ Garrett PowerMax direct-fit turbocharger, the ultimate performance boost for your 2.0L TSI EA888 EVO4 engine. Whether you drive an Audi A3, a Golf R, or a Cupra Formentor, this upgrade will boost your driving experience to the next level.

This direct-fit turbocharger upgrade produced a stunning 520BHP (383kW) and 425ft-lb of torque (576Nm) on a conservative tune on the dyno. During flow testing, this performance turbocharger supplied +20% compressor flow, and +37% turbine flow compared to the OE turbo. Garrett's latest generation of compressor and turbine wheel technology provide maximum flow and efficiency to this turbocharger, all within the OEM footprint.

But that's not all. The turbine wheel is constructed of Mar-M alloy rated for temperatures up to 1050°C. The stainless steel, internally wastegated turbine housing is also rated for temperatures up to 1050°C, ensuring durability and reliability under extreme conditions. Additionally, the turbine housing wastegate channel has been optimized for higher flow and performance control. The PowerMax turbocharger also comes with a fully machined speed sensor port so you can track turbo speed in your data logger or in Garrett's new [G-Smart Bluetooth Module \(sold separately PN 923586-0003\)](#).

Don't miss this opportunity to unleash the full potential of your 2.0L EA888 EVO4 engine. Order your 2020+ PowerMax Direct-Fit Upgrade today and get ready to enjoy the ultimate driving thrill!

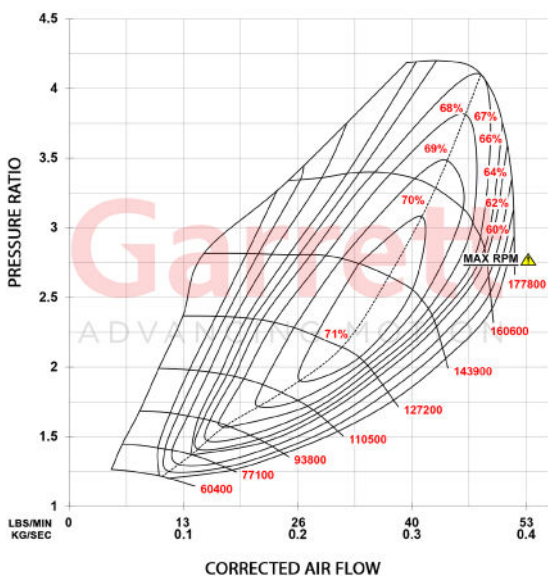
Turbocharger Reference Data:

Part Number	Power	Model	Comp Ind	Comp Exd	Turb Ind	Turb Exd
921474-5001S	550BHP 410kW	GT2563	51mm	63mm	58mm	50mm

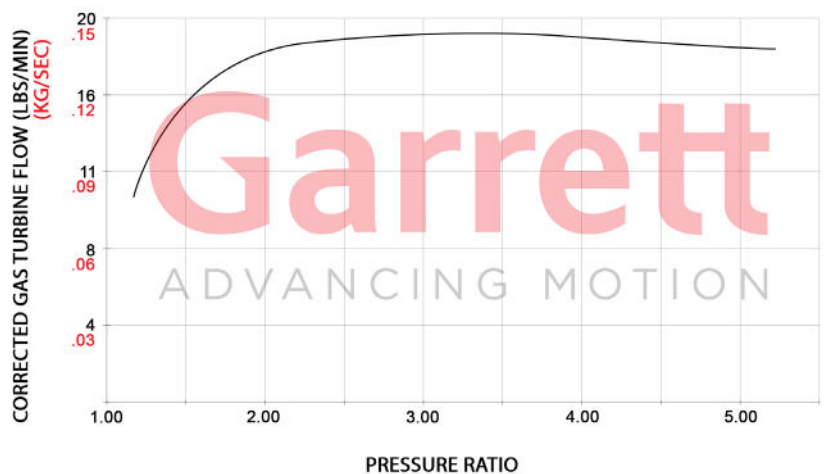
Vehicle Applications:

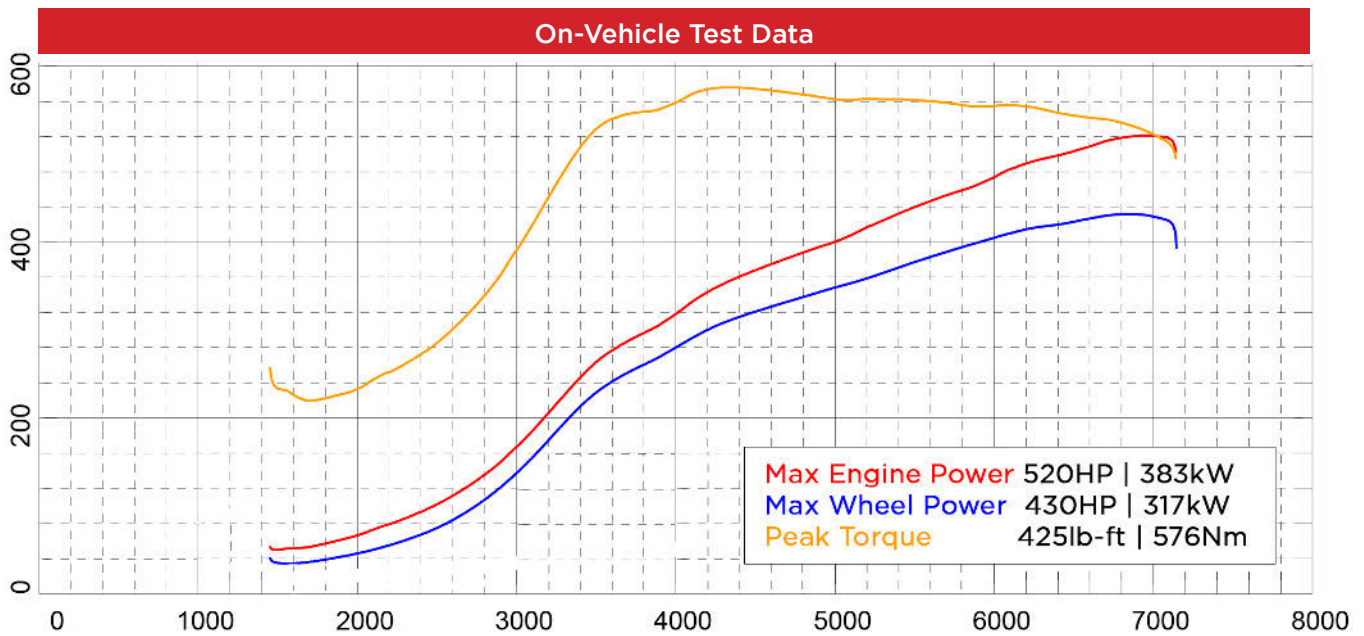
Make	Model	Region	Year	Engine	OEM Turbo
VW	Golf R	North America	2022+	EA888 EVO4 - Gas	06Q145703C (EU) 06Q145703F 06Q145703G 06Q145703H
VW	Golf VIII GTI Clubsport		2020+		
	T-ROC R 4Motion		2022+		
	Golf VIII R 4Motion		2020+		
	Golf VIII Variant TSI R 4Motion		2021+		
	Tiguan TSI R 4Motion		2020+		
Audi	A3 Limousine S3 Quattro	EMEA	2020+		
	A3 Sportback S3 Quattro		2020+		
	SQ2		2021+		
	TTS Quattro		2021+		
	Roadster TTS Quattro		2020+		
Cupra	Formentor 2.0 TSI 4Drive		2020+		
	Leon Sportstourer 2.0 TSI 4Drive	2021+			
	Leon Sportstourer 2.0 TSI	2021+			
	Leon 2.0 TSI	2021+			
	Ateca 2.0 TSI 4Drive	2020+			

Compressor Map



Exhaust Flow Chart





Vehicle Information:

- Location: Germany
- Golf R 2.0L TFSI (EA888 Evo4)
- Stock intercooler
- Custom downpipe
- Stock fuel system
- Fuel - 98 octane unleaded

WARNING: Maximum allowable turbocharger speed is 177.8krpm. 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), 781328-0004 (includes speed sensor), or [G-Smart Bluetooth Module with sensor \(PN 923586-0003\)](#). Sensor Kits 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.

Features

- Complete assembly with calibrated electric actuator for OE fitment
- 550BHP | 410kW turbo capability (on-vehicle results 520BHP | 383kW - with conservative tune)
- +20% compressor flow compared to OE turbo
- +37% turbine flow compared to OE turbo
- Customized modern compressor wheel aero for application
- Modern gasoline turbine wheel aerodynamics constructed of Mar-M alloy rated for up to 1050°C
- Stainless steel turbine housing rated for up to 1050°C
- Fully machined speed sensor port
- Integrated thrust bearing - reinforced for application

