



**POWERMAX™ DIRECT FIT PERFORMANCE TURBOCHARGER**

**Application: Stage 1 Turbo Upgrade For 1.9L | 2.0L VW TDI Engines**

**VW 1.9L TURBO UPGRADE**

**Part Number: 778445-5002S 1.9L (175hp\*)**

The Garrett GT1749V is the first performance upgrade / replacement turbocharger available to the aftermarket for Volkswagen 1.9L TDI BEW Engines. The GT1749V comes equipped with a smart actuator, an industry exclusive, and a position sensor, which enables the turbocharger to communicate automatically with the Engine Control Unit (ECU). The kit is easy to install and suitable as a performance upgrade or replacement turbocharger. The Garrett VW TDI Kit also promotes a longer turbo and engine life span and increased reliability by lowering exhaust gas temperatures.

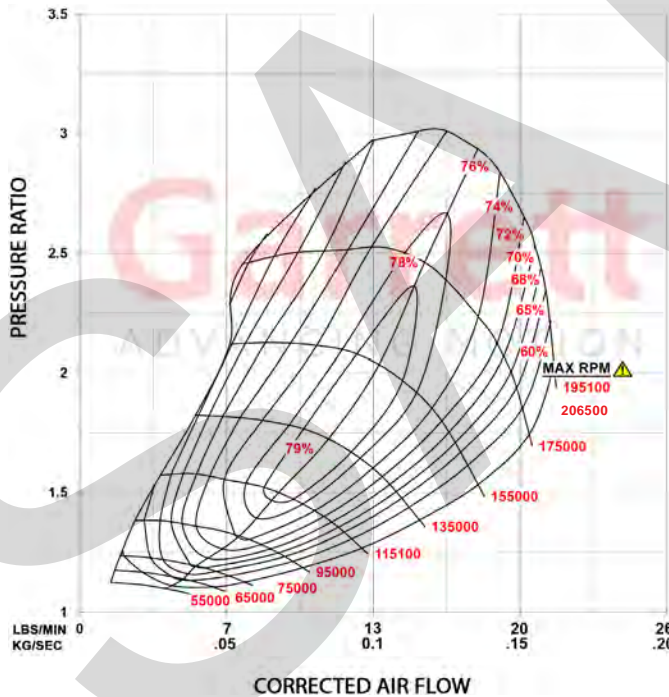
**VW 2.0L TURBO UPGRADE**

**Part Number: 838946-5001S 2.0L (190hp\*)**

The Garrett GTA1749V is a performance upgrade / replacement turbocharger available to the Aftermarket for Volkswagen 2.0L TDI BKD/BKP/AZV engines. The GTA1749V comes equipped with a larger compressor wheel for increased flow and bolts directly to the stock engine manifold flange. The turbo is easy to install and suitable as a performance upgrade or replacement turbocharger. The Garrett VW TDI turbo also promotes a longer turbo and engine life span and increased reliability by lowering exhaust gas temperatures.

*\*Please refer to the legal notice on page 82 before purchasing this product.*

Volkswagen TDI 1.9L 2.0L Upgrade	Turbo PN	HP*	Compressor				Turbine			
			Inducer	Exducer	Trim	A/R	Inducer	Exducer	Trim	A/R
VW 1.9L TDI (BEW Engine) VNT	778445-5002S	175	36mm	49mm	55	0.46	43mm	38mm	76	0.61
VW 2.0L TDI (BKD Engine) VNT	838946-5001S	190	36mm	49mm	55	0.46	43mm	36mm	70	0.61



**Replaces VW OE Part Numbers: 03G 253 010 J & 03G 253 010 J V100**

- Vehicles: 2.0L TDI BKD/BKP/AZV engines  
 2003.10-2009.07 – Golf V Mk5 A5 (PQ35) (typ 1K)  
 2005.08-2011.05 – Jetta A5 (PQ35) (typ 1K)  
 2003.08-2010.05 – Touran (typ 1T) – [AZV for 136 HP]  
 2005.09-2010.05 – Passat B6 (typ 1T) – BKP  
 2004.02-2010.05 – Skoda Octavia Mk2 (typ 1Z)  
 2nd gen. [AZV fo 136HP]  
 2009.01-2010.03 – Skoda Superb B6 (typ 3T)  
 [BKD EA188]  
 2005.07-2011.09 – Leon Mk2 (typ 1P)  
 2004.03-2011.09 – Seat Altea  
 2004.04-2009.05 – Seat Toledo 3  
 2003.08-2007.05 – Audi A3 (Typ 8P)

**Replaces VW OE Part Numbers: 038 253 019 S & 038 253 014 E Model: KP39 (3K)**

- Vehicles: 2003.05 - 2006 Volkswagen Beetle TDI  
 2003.05 - 2006 Volkswagen Golf TDI  
 2003.05 - 2005 Volkswagen Jetta TDI



**WARNING:** Maximum allowable turbocharger speed is 206.5krpm. 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 can be machined into the compressor housing for the fitment of speed sensor part numbers 781328-0001 (includes sensor and gauge), and 781328-0002 (includes speed sensor). Speed sensors sold separately.

\* Estimated. Performance results of this product are highly dependent upon your vehicle's modifications and tuning/calibration. The horsepower numbers represented above are calculated based strictly on choke flow of the compressor map (total turbo capability), which represents the potential flywheel horsepower.