

VW, SKODA, SEAT, Audi TDI Euro4 Upgrade Turbocharger
BILL OF MATERIALS & PRECAUTIONS

2.0L TDI I4 103kW(140PS) with BKD/BKP/AZV code engine:

Part Number: 838946-5001S *

* -see Note on Page 5

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 for 136HP]
 2009/01-2010/03 – Skoda Superb B6 (typ 3T) [BKD EA188]
 2005/07-2011/09 – Seat Leon Mk2 (typ 1P)
 2004/04-2009/05 – Seat Toledo 3
 2004/03-2011/09 – Seat Altea
 2003/08-2007/05 – Audi A3 (Typ 8P)

PARTS LIST			TOOLS NEEDED
Item	Description	Qty.	<ul style="list-style-type: none"> • Factory Service Manual • For installation, use tools recommended in factory service manual
1	GTA1749MV Turbocharger	1	
2	Installation Instructions	1	

PLEASE INSURE THAT THE PART NUMBER THAT HAS BEEN ORDERED WAS THE INTENDED PART NUMBER BEFORE BEGINNING INSTALLATION.

NOTE: Bolt and fastener sizes may be different from one model year to the next depending on OE specifications. Different tools than those listed above may be required.

Recommended Other Items

- Safety glasses
- Anti-seize compound
- Oil filter
- Oil (quantity per service manual)

IMPORTANT INFORMATION - PLEASE READ CAREFULLY



We recommend that this turbocharger be installed by a qualified automotive technician. If you have any doubts as to your ability to install this turbocharger, consult with a local automotive repair company. Please be sure to carefully read all of the attached instructions prior to starting the installation process. If you have any questions about the enclosed parts or the instructions, call the distributor that you purchased the turbocharger from for clarification.

Prior to the Garrett turbocharger installation, be sure that the vehicle is parked on a level surface and the engine is cool. Engine fluids and components can be extremely hot following normal vehicle operation. Avoid direct contact of engine fluids or components with your skin which may cause personal injury.

NOTE: It is recommended that the oil and oil filter are changed prior to running the Garrett turbocharger. This will provide clean oil to the new turbocharger. To ensure optimal performance, always follow oil and filter change intervals per the Factory Service Manual.

IMPORTANT INFORMATION - PLEASE READ CAREFULLY

Damaged Shipments

The customer must file a claim with the shipping company if goods arrive in a damaged condition. The customer must also notify the distributor from which the goods were purchased with pertinent information.

Refused Shipments

Sending a shipment back to The Garrett Garage (or Honeywell) does not automatically give rise to a complete refund or credit. Honeywell Turbo Technologies may, at its sole discretion require different payment means for any shipment refused and then reshipped. It is the customer's responsibility to make all arrangements with Honeywell Turbo Technologies for disposition of refused shipments.

Limited Warranty

Honeywell Turbo Technologies warrants to the original purchaser of its Turbocharger Products that such Turbocharger Products will, for a period of 1 year from date of shipment and subject to the Limitations on Warranty, be free from defects in materials and workmanship. For approved warranty claims Honeywell Turbo Technologies will, at its sole discretion, either credit the original purchaser in an amount equal to the original purchase price, or replace the applicable Turbocharger Product free of charge, within 60 days of Honeywell Turbo Technologies' approval. This is purchaser's sole and exclusive remedy and provides the complete financial responsibility of Honeywell Turbo Technologies for a warranty claim. To be eligible for reimbursement, Customer must (a) submit all warranty claims to Honeywell Turbo Technologies within 30 days of the discovery of the alleged Turbocharger Product defect; and (b) complete and return a Returned Material Authorization Form. Consumers are required to work through Honeywell's distributors in order to process any warranty claims.

When Honeywell Turbo Technologies requires the examination of a failed part, Honeywell Turbo Technologies will promptly notify Customer and will await receipt of the failed part before further processing the warranty claim. If Honeywell Turbo Technologies ultimately determines that the failed part is covered under the Limited Warranty, Honeywell Turbo Technologies will reimburse Customer for the actual cost of ground shipment for any part found to be defective.

Important product information

Garrett Vehicle Specific Turbos are professional aftermarket products only designed for certain racing vehicles driven on particular racing tracks and shall only be used on racing vehicles that will never be driven on public roads or highways. Garrett Vehicle Specific Turbos are not legal for the use in vehicles on public roads or other road to which public road law applies. Any vehicle modifications using Garrett Vehicle Specific Turbos are AT YOUR OWN RESPONSIBILITY and AT YOUR OWN RISK. Only use Garrett Vehicle Specific Turbos in compliance with all applicable laws, regulations and ordinances (including but not limited to emission, noise, operating license, performance, safety and type-approval aspects). A vehicle modification using Garrett Vehicle Specific Turbos may particularly affect or void a vehicle's warranty, operating license or type-approval. You should particularly consult the owner's manual and service manual of your vehicle. You should also contact your vehicle's manufacturer to determine what effects modifications may have on important aspects such as safety, warranty, performance, etc.

IMPORTANT INFORMATION - PLEASE READ CAREFULLY**Limitations on Warranty**

The Limited Warranty does not apply to any parts: (a) not used in accordance with Honeywell Turbo Technologies' written instructions (b) for which no fault is found; (c) that have been modified in any manner not specifically approved by Honeywell Turbo Technologies; (d) for which an inspection indicates that reasonable and proper installation and/or preventative care and maintenance has not occurred; (e) that have been subject to damage attributable to or caused by misuse, abuse or vandalism; mishandling, improper shipping or other transit related damage; acts of god or insurrection; foreign object entry; any part not supplied by Honeywell Turbo Technologies; any repair, maintenance or service by anyone other than Honeywell Turbo Technologies; or any other acts that are beyond Honeywell Turbo Technologies' reasonable control; or (f) attributable to parts not supplied by Honeywell Turbo Technologies. Honeywell Turbo Technologies expressly disclaims any and all warranties relative to the foregoing circumstances.

Honeywell Turbo Technologies shall not be liable to Customer under any circumstances for any special, incidental or consequential damages, including without limitation, damage to or loss of property other than for Turbocharger Products; damages incurred in installation, repair or replacement; lost profits, revenue or opportunity; loss of use; losses resulting from or related to downtime of Turbocharger Products; the cost of replacement transportation, power, or compression; the cost of substitute products; or claims of third parties for such damages, howsoever caused, and whether based on warranty, contract, and/or tort (including negligence, strict liability or otherwise).

The Limited Warranty is the only warranty made by Honeywell Turbo Technologies for any of its turbochargers and related parts and/or services, and is in lieu of and excludes all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Honeywell Turbo Technologies hereby disclaims all other warranties not expressly set forth. Some jurisdictions do not allow for the exclusion of implied warranties, so the above exclusions may not apply to you, however if implied warranties do apply they are limited to the original purchaser and for a period of one (1) year from the date of shipment.

Important product information

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Diagnosing Your Vehicle

Do not rely on diagnostic software without seeking the advice of an ASE certified mechanic. Diagnostic software should only be used as a general guideline to help you facilitate the repair of your car. If you experience or suspect any malfunction of vital safety equipment, such as your brakes, exhaust, motor, transmission, fuel delivery system, your car's structural integrity or any other potentially life threatening malfunction, cease driving your vehicle immediately and seek professional help. Always consult your owner's manual.

IMPORTANT INFORMATION - PLEASE READ CAREFULLY

Vehicle Modification Notice

Any modifications to your car are AT YOUR OWN RISK. You should consult the owner's manual and service manual. You should also contact your car's manufacturer to determine what effects modifications may have on your safety, warranty, performance, etc. Please also contact your local authorities to determine whether your intended modifications will make your car illegal to drive on public roads. A vehicle modified by the use of competition parts may not meet the legal requirement for use on public roads. It is your responsibility to comply with federal, state, and local laws prior to driving your vehicle on public roads

OTHER PRECAUTIONS

Observe all safety precautions and warnings contained in the installation instructions. Wear eye and ear protection and appropriate protective clothing. When working under or around the vehicle support it securely with jack stands. Use only the proper tools. Exercise extreme caution when working with flammable, corrosive, and hazardous liquids and materials.

LEGAL INFORMATION

Garrett Vehicle Specific Turbos are professional aftermarket products only designed for certain racing vehicles driven on particular racing tracks and shall only be used on racing vehicles that will never be driven on public roads or highways. Garrett Vehicle Specific Turbos are not legal for the use in vehicles on public roads or other road to which public road law applies. Any vehicle modifications using Garrett Vehicle Specific Turbos are AT YOUR OWN RESPONSIBILITY and AT YOUR OWN RISK. Only use Garrett Vehicle Specific Turbos in compliance with all applicable laws, regulations and ordinances (including but not limited to emission, noise, operating license, performance, safety and type-approval aspects). A vehicle modification using Garrett Vehicle Specific Turbos may particularly affect or void a vehicle's warranty, operating license or type-approval. You should particularly consult the owner's manual and service manual of your vehicle. You should also contact your vehicle's manufacturer to determine what effects modifications may have on important aspects such as safety, warranty, performance, etc.

Unless you have fully read and understood the important product information above and unless you fully agree with the terms and conditions set forth therein, do not modify or use a vehicle with a Garrett Vehicle Specific System.

Garrett[®]
by Honeywell

INSTALLATION INSTRUCTIONS

NOTE: This turbocharger is intended as an performance upgrade Plug and Play (P&P) for vehicles equipped with the 2.0L TDI Euro4 engine code **BKD/BKP/AZV**.

It is recommended as performance replacement for **VW, SKODA, SEAT, AUDI OE part number 03G 253 010 J and 03G 253 010 J V100** [Garrett OE part number: **724930-5009S ; -5010S and -5011S ; -5012S, model GTA1749MV**].

1. Installation of this turbocharger is straightforward and the procedure is almost identical to replacing a stock unit. Follow the turbocharger replacement procedure in the Volkswagen factory service manual. Anti-seize compound is recommended on exhaust studs for ease of removal, if necessary. Be sure to connect the VNT actuator vacuum line and electrical connector.
2. The EGR cooler port has to be connected with the turbocharger via existing OEM EGR tube, see fig.2.
3. In order to realize the performance upgrade potential of this turbocharger, upgrades to the fuel injectors and engine tuning are recommended. Consult with a TDI specialist for guidance and recommendations.
4. Change engine oil and filter before starting engine. Regular oil changes with a high quality diesel-specific oil are recommended, as clean oil is vital to turbocharger performance and durability.
5. Start engine and check for oil leaks. Once the system is confirmed to be leak-free, you are ready to enjoy your new Garrett GTA1749MV turbocharger.



Fig. 1

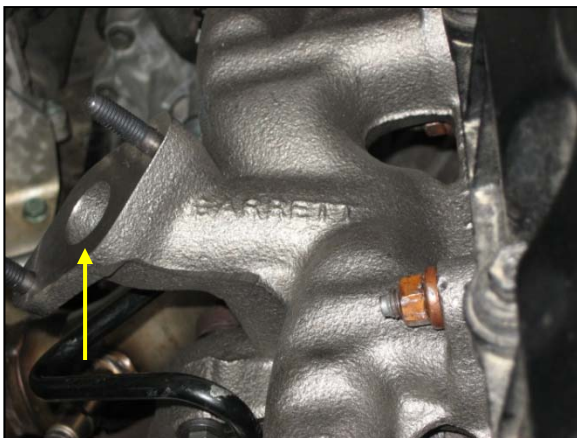


Fig. 2

NOTE: After handling the exhaust components, it is not uncommon for the components to smoke as the engine heats up. Once the initial oil film is burned off, there should be no more smoke.

