

A-Premium TD04LR6

A-Premium TD04LR6 Turbocharger Kit for BMW Models - Instruction Manual

Model: TD04LR6 (Part Number: 0APTBC114)

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your A-Premium TD04LR6 Turbocharger Kit. This kit is designed for specific BMW models with L4 2.0L engines to enhance engine performance. Please read these instructions carefully before proceeding with installation or use.

Attention: Please use the appropriate shop manual for your specific vehicle to obtain detailed service instructions. If you do not have an installation manual or sufficient skill to install this part, it is highly recommended to seek assistance from a qualified mechanic.

2. VEHICLE FITMENT

This A-Premium TD04LR6 Turbocharger Kit is compatible with the following BMW models equipped with an L4 2.0L engine:

- BMW 320i (2012-2014)
- BMW 328i (2012-2014)
- BMW 320i xDrive (2013-2014)
- BMW 328i xDrive (2013-2014)
- BMW 528i (2012-2016)
- BMW 528i xDrive (2012-2013)
- BMW X1 (2012)
- BMW X3 (2013)

- BMW Z4 (2012-2014)

OEM Part Numbers: 49477-02016, 11657635803, 11657588938, 4947702016.



VEHICLE FITMENT

Compatible with BMW Models:			OEM Number:
• 2012-2014	320i	L4 2.0L	49477-02016, 11657635803, 11657588938, 4947702016
• 2013-2014	320i xDrive Base	L4 2.0L	
• 2012-2014	328i	L4 2.0L	
• 2013-2014	328i xDrive	L4 2.0L	
• 2012-2016	528i	L4 2.0L	
• 2012-2013	528i xDrive	L4 2.0L	
• 2012-2012	X1	L4 2.0L	
• 2013-2013	X3	L4 2.0L	
• 2012-2014	Z4	L4 2.0L	

Image: Table detailing compatible BMW models and OEM part numbers for the turbocharger kit.

3. PRODUCT OVERVIEW

The A-Premium TD04LR6 Turbocharger Kit is a complete assembly designed for direct replacement and improved performance. It includes the turbocharger, exhaust manifold, wastegate actuator, and necessary gaskets.

COMPLETE TURBO WITH

Exhaust Manifold & Wastegate
Actuator & Gasket ect.



Image: Exploded view of the complete turbocharger kit, showing the turbocharger, exhaust manifold, wastegate actuator, and various gaskets.

3.1 Key Components and Features

- **Turbo Assembly:** Integrates the turbocharger with the exhaust manifold for a complete unit.
- **Wastegate Actuator:** Included for precise boost control.
- **Gaskets:** Provided for a complete and secure installation. Note that the manifold gasket is thicker than the original.
- **Material:** Constructed from durable alloy for longevity and performance.
- **Dual Turbine / Compressor Wheel:** Made from premium super alloy, designed to withstand poor working conditions, offering corrosion resistance, high stress resistance, and high temperature resistance.
- **Superalloy Bearing Shaft:** Features 42CrMo steel for uniform hardness and high strength, capable of operating up to 170,000 RPM. Includes a thrust collar (CW713R Brass) and sleeve bearing (CW713R Brass) for low friction, perfect impact toughness, and superior tensile strength.

ENGINE TURBOCHARGER

Improve Air Input significantly Boost Fiercely
100% Mechanical Fastener and Tolerance

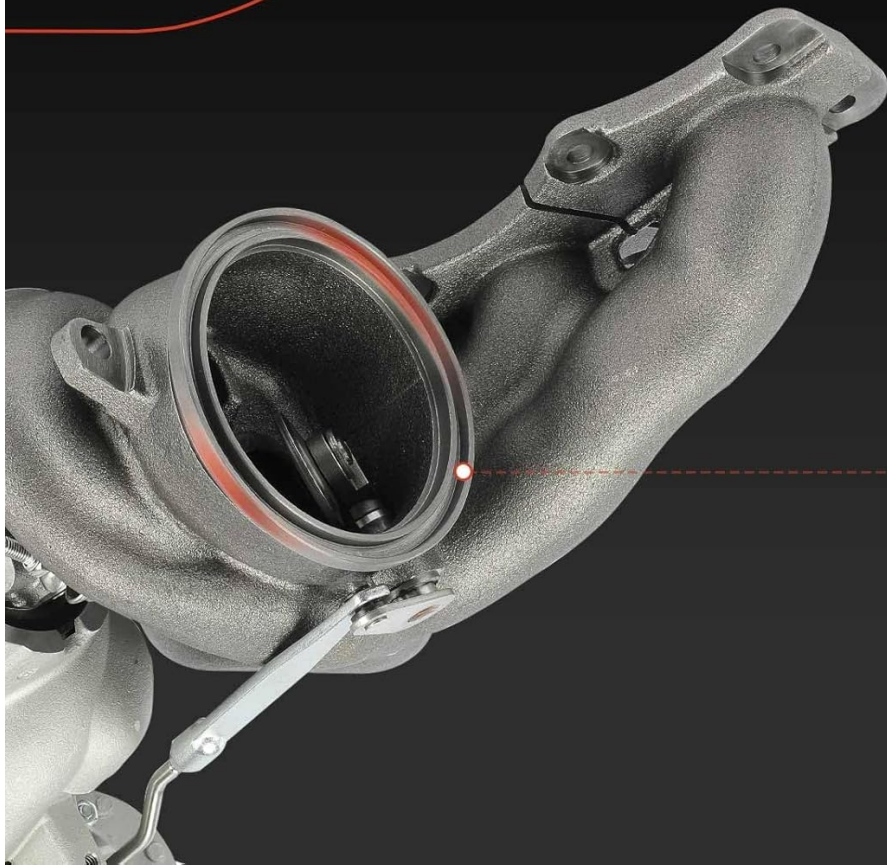


Image: Diagram illustrating the engine turbocharger, highlighting the relief valve component.

DUAL TURBINE / COMPRESSOR WHEEL

Premium Super alloy that is capable of withstanding Poor working condition

- Corrosion Resistance ●
- High Stress Resistance ●
- High Temperature Resistance ●

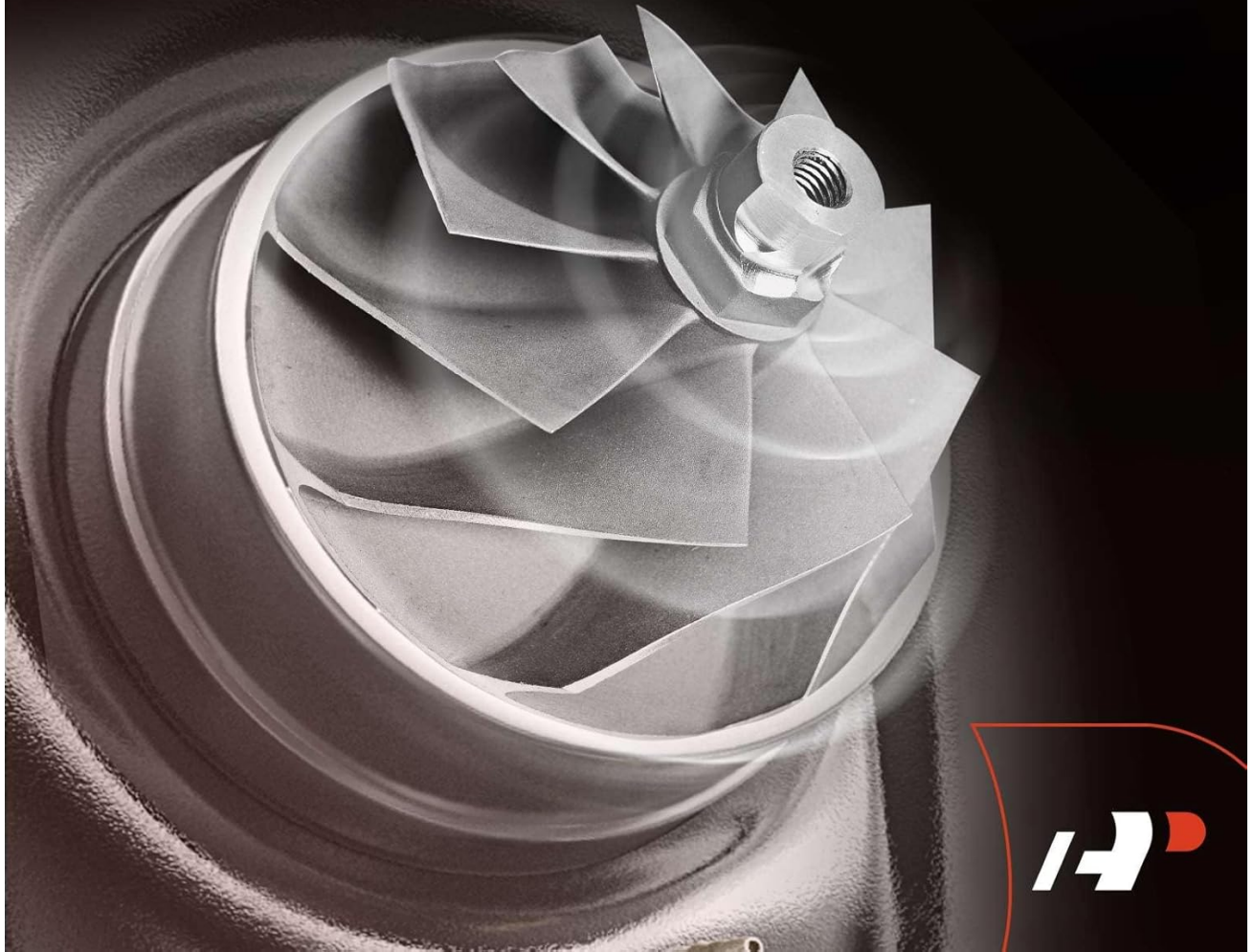
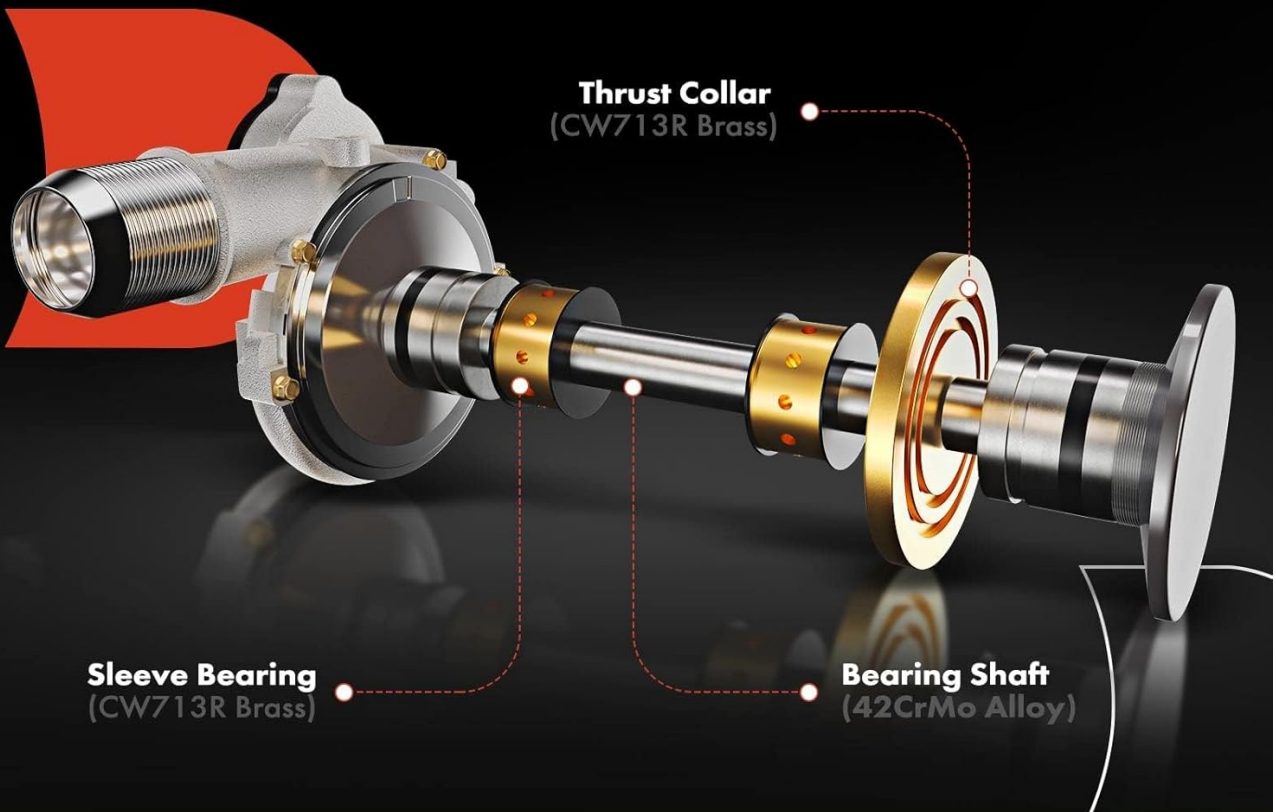


Image: Close-up view of the dual turbine/compressor wheel, emphasizing its super alloy construction and resistance properties.

SUPERALLOY BEARING SHAFT

42CrMo steel provides uniform hardness and high strength
Up to **170,000 RPM**



Sleeve Bearing
(CW713R Brass)

Thrust Collar
(CW713R Brass)

Bearing Shaft
(42CrMo Alloy)



Low
Friction



Perfect Impact
Toughness



Superior Tensile
Strength

Image: Detailed diagram of the superalloy bearing shaft, showing the thrust collar, sleeve bearing, and bearing shaft with their respective materials and benefits.



Image: Two views of the turbocharger assembly, showing the top and side perspectives of the integrated unit.

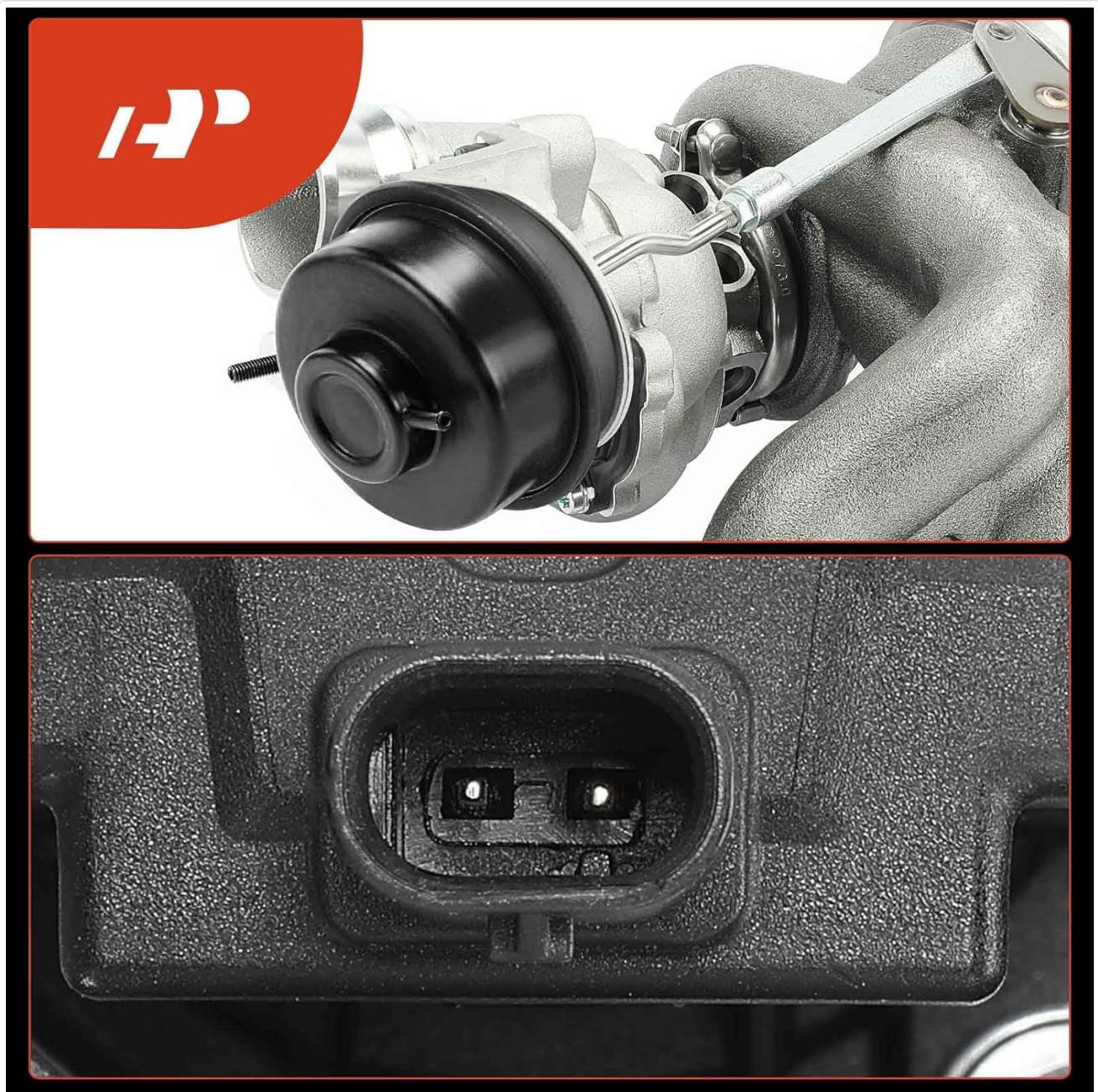


Image: Close-up of the wastegate actuator and its electrical connector, indicating the connection point.

4. INSTALLATION

Installation of a turbocharger requires mechanical expertise and specialized tools. It is strongly recommended that installation be performed by a qualified mechanic. Refer to your vehicle's specific service manual for detailed, step-by-step instructions.

4.1 Important Considerations Before Installation

- Ensure the engine is cool before beginning any work.
- Disconnect the vehicle's battery.
- Gather all necessary tools and safety equipment.
- Verify all components of the A-Premium TD04LR6 kit are present and undamaged.
- Note that this turbocharger comes WITHOUT an Electronic Wastegate Actuator.

- The manifold gasket provided is thicker than the original; ensure proper fitment and sealing.

4.2 General Installation Steps (Consult Vehicle-Specific Manual for Details)

1. Safely lift and secure the vehicle.
2. Drain engine oil and coolant if necessary.
3. Remove existing turbocharger and exhaust manifold assembly.
4. Clean all mating surfaces thoroughly to ensure a proper seal.
5. Install the new A-Premium TD04LR6 turbocharger kit, ensuring all gaskets are correctly positioned.
6. Connect all lines (oil, coolant, air) and electrical connectors.
7. Refill engine oil and coolant to appropriate levels.
8. Perform initial engine startup and check for leaks or unusual noises.
9. Clear any diagnostic trouble codes (DTCs) using an OBD-II scanner.

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Video: An overview of the A-Premium Turbo Turbocharger Assembly for Replacement, demonstrating its components and general fitment. This video is provided by the seller and is relevant to the product.

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Video: A detailed look at the A-Premium Turbocharger Turbo Assembly, showcasing its design and features. This video is provided by the seller and is relevant to the product.

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Video: A brief overview of the TD04LR6 Turbo Turbocharger, highlighting its key aspects. This video is provided by the seller and is relevant to the product.

5. OPERATING CONSIDERATIONS

After installation, proper operating procedures are crucial for the longevity and performance of your new turbocharger.

- **Initial Startup:** Allow the engine to idle for several minutes after installation to ensure proper oil circulation to the turbocharger.
- **Warm-up:** Avoid aggressive driving until the engine and turbocharger have reached optimal operating temperature.
- **Cool-down:** After high-load driving, allow the engine to idle for a few minutes before shutting it off. This helps cool the turbocharger and prevents oil coking.
- **Oil Quality:** Use high-quality engine oil as recommended by your vehicle manufacturer. Regular oil changes are vital for turbocharger health.

6. MAINTENANCE

Regular maintenance is essential to ensure the optimal performance and lifespan of your A-Premium TD04LR6

Turbocharger Kit.

- **Oil Changes:** Adhere strictly to your vehicle manufacturer's recommended oil change intervals. Consider more frequent changes if driving conditions are severe.
- **Oil Filter:** Always replace the oil filter with a new, high-quality filter during every oil change.
- **Air Filter:** Regularly inspect and replace the engine air filter to prevent contaminants from entering the turbocharger.
- **Boost Leaks:** Periodically check all hoses and connections for signs of leaks, which can affect turbocharger performance.
- **Inspection:** Visually inspect the turbocharger for any signs of damage, loose connections, or oil leaks during routine maintenance checks.

7. TROUBLESHOOTING

If you experience issues with your turbocharger, consult this section for common problems and potential solutions. For complex issues, professional diagnosis is recommended.

Symptom	Possible Cause	Solution
Reduced Engine Power / Lack of Boost	Boost leak, faulty wastegate actuator, clogged air filter, exhaust leak.	Check all boost hoses and connections. Inspect wastegate actuator. Replace air filter. Check exhaust manifold for leaks.
Excessive Smoke from Exhaust	Oil leaking into exhaust (blue/grey smoke), coolant leaking (white smoke).	Check turbocharger oil seals. Inspect coolant lines. Professional diagnosis recommended.
Unusual Noises (Whining, Hissing)	Loose connections, damaged compressor/turbine wheel, bearing wear.	Inspect all connections. Check for foreign object damage to wheels. Professional inspection of bearings.
Oil Leaks Around Turbocharger	Loose oil lines, damaged gaskets, worn seals.	Tighten oil line connections. Replace gaskets. Inspect turbocharger seals.

8. SPECIFICATIONS

Feature	Detail
Part Type	Turbo Assembly
Turbo Model	TD04LR6
Engine Compatibility	L4 2.0L Turbocharged N20 Engine

Feature	Detail
Material	Alloy (Premium Super Alloy for wheels, 42CrMo steel for bearing shaft)
Wastegate Actuator Included	Yes (Note: Comes WITHOUT Electronic Wastegate Actuator)
Gasket Included	Yes (Manifold gasket is thicker than original)
Manufacturer Part Number	0APTBC114
OEM Part Numbers	49477-02016, 11657635803, 11657588938, 4947702016
Item Weight	27.3 pounds
Package Dimensions	22.83 x 13.78 x 11.81 inches

9. WARRANTY AND SUPPORT

A-Premium offers a one-year unlimited-mileage guarantee on this engine turbocharger. For warranty claims, technical support, or further inquiries, please contact A-Premium customer service through the retailer where the product was purchased.

For additional information and product details, visit the [A-Premium Store on Amazon](#).