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HKS 11004-AM005

HKS 11004-AM005 GTII 8262KAI Sports Turbine Kit

Official Instruction Manual

Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of the HKS 11004-AM005 GTII 8262KAI Sports Turbine Kit. Please read this manual thoroughly before beginning any work to ensure safe and correct procedures. Adherence to these guidelines will help maximize the performance and longevity of your HKS product.
The HKS GTII 8262KAI Sports Turbine Kit is engineered for enhanced performance in compatible vehicles, specifically the CZ4A model. HKS is renowned for its commitment to quality and performance in the automotive aftermarket industry.

What's in the Box

Upon unpacking, please verify that all components listed below are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- GTII 8262KAI SPORTS TURBINE KIT (CZ4A)
- Associated installation hardware (hoses, clamps, etc.)



Image: Overview of the HKS GTII 8262KAI Sports Turbine Kit, showing the main turbocharger unit on the left and various installation components such as heat shielding, rubber hoses, metal pipes, and hose clamps on the right. These parts are essential for a complete

and secure installation.

Key Features

The HKS GTII 8262KAI Sports Turbine Kit offers several advantages:

- Designed to be user friendly for easy installation.
- HKS has been synonymous with "performance" in the automotive aftermarket industry for over 35 years.
- HKS delivers quality and performance with exceptional results.

Setup and Installation

Installation of a turbine kit requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified professional mechanic to ensure proper function and safety.

General Installation Guidelines:

1. **Preparation:** Ensure the vehicle is cool and disconnected from the battery. Gather all necessary tools and safety equipment.
2. **Removal of OEM Components:** Carefully remove the existing turbocharger and associated components, including exhaust manifold, downpipe, intake piping, oil lines, and coolant lines, as per vehicle service manual instructions.
3. **Component Inspection:** Inspect all new HKS components for any shipping damage. Ensure all gaskets and seals are clean and intact.
4. **Installation of New Turbine:** Mount the HKS GTII 8262KAI turbine to the exhaust manifold using new gaskets and hardware. Ensure proper torque specifications are met for all fasteners.
5. **Connect Ancillary Systems:** Reconnect or install new oil feed and return lines, coolant lines, and intake/charge piping. Ensure all connections are secure and leak-free.
6. **Final Checks:** Double-check all connections, hoses, and clamps. Verify no tools or debris are left in the engine bay. Reconnect the battery.
7. **Initial Start-up:** Follow vehicle-specific procedures for initial start-up after turbocharger installation, which may include priming the oil system. Monitor for any leaks or unusual noises.
8. **ECU Tuning:** Aftermarket turbine kits often require engine control unit (ECU) re-tuning to optimize performance and ensure engine safety. Consult with a professional tuner.

Note: *This is a general guide. Always refer to the detailed installation instructions provided with the specific HKS kit and your vehicle's service manual for precise steps and torque specifications.*

Operating Guidelines

Once installed and properly tuned, the HKS GTII 8262KAI Sports Turbine Kit will significantly enhance your vehicle's performance. To ensure optimal operation and longevity:

- **Warm-up Period:** Always allow the engine to reach operating temperature before engaging in high-performance driving. This ensures proper oil circulation and lubrication for the turbocharger.
- **Cool-down Period:** After spirited driving, allow the engine to idle for a few minutes before shutting it off. This allows the turbocharger to cool down and prevents oil coking in the bearing housing.
- **Fuel Quality:** Use high-octane fuel as recommended by your tuner to prevent pre-ignition and detonation, which can damage the engine and turbocharger.

- **Boost Monitoring:** If equipped, regularly monitor boost pressure to ensure it remains within safe operating parameters set by your tuner.

Maintenance

Regular maintenance is crucial for the performance and durability of your HKS turbine kit.

- **Oil Changes:** Perform oil changes more frequently than standard intervals, using high-quality synthetic oil. Turbochargers are highly dependent on clean, fresh oil for lubrication and cooling.
- **Oil Filter:** Always replace the oil filter with each oil change.
- **Air Filter:** Regularly inspect and replace the engine air filter. A clogged air filter can restrict airflow and put strain on the turbocharger.
- **Hose and Clamp Inspection:** Periodically check all intake, intercooler, oil, and coolant hoses for cracks, leaks, or loose clamps. Tighten or replace as necessary.
- **Exhaust System Check:** Inspect the exhaust manifold and downpipe connections for leaks, which can affect turbocharger efficiency.
- **Noise and Vibration:** Pay attention to any unusual noises (e.g., whining, grinding) or vibrations from the turbocharger area. These could indicate a problem requiring immediate attention.

Troubleshooting

This section addresses common issues that may arise with a turbine kit. For complex problems, always consult a professional mechanic.

Problem	Possible Cause	Solution
Reduced Boost Pressure	Boost leak (loose hose/clamp), wastegate malfunction, clogged air filter, ECU issue.	Inspect all boost hoses and clamps. Check wastegate operation. Replace air filter. Consult tuner for ECU diagnosis.
Excessive Smoke from Exhaust	Oil leaking into turbine housing (worn seals/bearings), incorrect oil level.	Check oil level. If smoke persists, professional inspection of turbocharger seals/bearings is required.
Unusual Noises (Whining/Grinding)	Bearing wear, foreign object ingestion, impeller contact with housing.	Immediately cease operation and have the turbocharger inspected by a professional.
Oil Leaks Around Turbo	Loose oil lines, damaged gaskets/seals, excessive crankcase pressure.	Check and tighten oil line fittings. Replace gaskets/seals. Inspect PCV system.

Specifications

Detailed specifications for the HKS 11004-AM005 GTII 8262KAI Sports Turbine Kit:

Attribute	Value
Manufacturer	HKS
Brand	HKS
Product Dimensions	43.18 x 33.02 x 27.94 cm

Attribute	Value
Item Model Number	11004-AM005
Manufacturer Part Number	11004-AM005
Item Weight	12.4 kg
ASIN	B00O0WYAEG
Date First Available	25 May 2015

Warranty and Support

HKS products are manufactured to high standards of quality and performance. For specific warranty information regarding your HKS GTII 8262KAI Sports Turbine Kit, please refer to the warranty card included with your purchase or visit the official HKS website.

For technical support, installation queries, or assistance with troubleshooting, please contact your authorized HKS dealer or the HKS customer support directly. Providing your product model number (11004-AM005) and purchase details will help expedite support.

HKS is committed to providing excellent customer service and support for its high-performance automotive components.

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