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HKS 32009-BN005

HKS 32009-BN005 Cat-Back Exhaust System User Manual

Model: 32009-BN005

1. Introduction

Thank you for choosing the HKS 32009-BN005 Cat-Back Exhaust System. This manual provides essential information for the proper installation, operation, and maintenance of your new exhaust system. Please read this manual thoroughly before beginning installation to ensure safe and correct procedures.
HKS has a long history in automotive performance, accumulating extensive knowledge in parts development for optimal performance. As a comprehensive tuning products manufacturer, HKS possesses deep expertise in exhaust technology. This product is designed to deliver enhanced performance and sound characteristics for your vehicle.

2. Safety Information

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Ensure the vehicle is securely supported on jack stands or a lift before working underneath. Never rely solely on a jack.
- Allow the exhaust system to cool completely before handling. Hot exhaust components can cause severe burns.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Work in a well-ventilated area to avoid exposure to exhaust fumes.
- Disconnect the vehicle's battery before starting any electrical work, if applicable.
- Keep all fasteners and components organized to prevent loss.
- If you are unsure about any step, consult a qualified automotive technician.

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

3. Package Contents

Verify that all components are present and undamaged before beginning installation. If any items are missing or damaged, contact your HKS dealer or customer support.

- HKS 32009-BN005 Cat-Back Exhaust System components (mufflers, piping, hangers, etc.)
- Installation hardware (gaskets, bolts, nuts, washers)
- Instruction Manual (this document)



Figure 3.1: Overview of the HKS 32009-BN005 Cat-Back Exhaust System components. The image displays the dual muffler assemblies, featuring polished stainless steel construction and distinctive blue-tinted titanium exhaust tips.

4. Installation Instructions

This section outlines the general steps for installing the HKS 32009-BN005 Cat-Back Exhaust System. Specific vehicle models may require slight variations. Refer to your vehicle's service manual for detailed removal procedures of the factory exhaust.

4.1 Tools Required

- Socket/Wrench Set (metric and/or standard, depending on vehicle)
- Torque Wrench
- Exhaust Hanger Removal Tool (recommended)
- Penetrating Lubricant
- Safety Glasses and Gloves
- Vehicle Lift or Jack Stands

4.2 Removal of Factory Exhaust

1. Park the vehicle on a level surface and engage the parking brake.
2. Raise the vehicle to a comfortable working height using a lift or jack stands. Ensure the vehicle is stable.
3. Locate the factory cat-back exhaust system.
4. Apply penetrating lubricant to all exhaust hangers and flange bolts. Allow time for it to work.
5. Support the factory exhaust system to prevent it from falling once disconnected.
6. Carefully unbolt the exhaust system from the catalytic converter flange(s).
7. Remove the exhaust hangers from their rubber isolators. An exhaust hanger removal tool can simplify this step.
8. Carefully lower and remove the factory exhaust system from under the vehicle.

4.3 Installation of HKS Cat-Back Exhaust

1. Clean the mating surfaces of the catalytic converter flange(s) to ensure a proper seal.
2. Install the new gaskets provided with the HKS exhaust system onto the catalytic converter flange(s).
3. Begin by loosely fitting the front section of the HKS exhaust system to the catalytic converter flange(s) using the supplied hardware. Do not fully tighten bolts yet.
4. Attach the exhaust hangers to the vehicle's rubber isolators.
5. Connect the mid-pipe and muffler sections, ensuring proper alignment and fitment. Loosely install all clamps and bolts.
6. Once all sections are in place and hangers are engaged, adjust the exhaust system for optimal clearance and tip alignment.
7. Starting from the front (catalytic converter connection) and working towards the rear, progressively tighten all bolts and clamps to the manufacturer's specified torque settings. Refer to your vehicle's service manual for general exhaust torque specifications if HKS specific values are not provided.
8. Double-check all connections for tightness and ensure there are no leaks.
9. Lower the vehicle.

5. Operation and Initial Start-Up

After installation, perform an initial start-up and inspection.

1. Start the vehicle and listen for any exhaust leaks. Small leaks may seal themselves as the system heats up, but significant leaks require re-tightening or re-sealing.
2. Observe the exhaust system for any contact with vehicle components (e.g., chassis, suspension, driveshaft). Adjust alignment if necessary.
3. During the first few drives, a slight burning smell may be present. This is normal and is due to protective coatings and manufacturing residues burning off. It should dissipate quickly.
4. The exhaust sound will settle after a few hundred miles of driving as the system breaks in.

This HKS exhaust system is designed to provide enhanced exhaust flow and a sportier sound. While the product description mentions a "switchable valve," specific operation details for this feature are not provided in the product data. If your specific model includes a valve, refer to any supplementary documentation or HKS's official website for its operation.

6. Maintenance

Proper maintenance will ensure the longevity and performance of your HKS exhaust system.

- **Regular Inspection:** Periodically inspect the exhaust system for loose bolts, damaged hangers, cracks, or corrosion. Check for any signs of exhaust leaks.
- **Cleaning:** Clean the exhaust tips regularly with a non-abrasive cleaner to maintain their appearance. Avoid harsh chemicals that could damage the titanium finish.
- **Road Debris:** Avoid driving over large debris that could strike and damage the exhaust system.
- **Salt Exposure:** If driving in areas with road salt, rinse the underside of your vehicle, including the exhaust, frequently to prevent corrosion.

7. Troubleshooting

Problem	Possible Cause	Solution
Exhaust Leak	Loose bolts/clamps, damaged gasket, cracked pipe/muffler.	Tighten all connections. Replace damaged gaskets. Inspect for cracks and repair or replace affected components.
Rattling/Vibration	Exhaust contacting chassis/components, loose hangers, internal muffler baffle failure.	Adjust exhaust alignment for clearance. Check and secure all hangers. If internal failure, replacement may be necessary.
Unusual Noise	Exhaust leak, loose connection, internal damage.	Inspect for leaks and loose connections. If noise persists, consult a professional.

If you encounter issues not listed here or if solutions do not resolve the problem, contact HKS customer support or a certified mechanic.

8. Specifications

Attribute	Detail
Model Number	32009-BN005
Brand	HKS
Material	Titanium (Tips), Stainless Steel (Piping/Mufflers)
Installation Type	Bolt-On

Attribute	Detail
Item Weight	72.5 pounds
Application	Q50 VQ37 (as per product title)

9. Warranty and Support

For warranty information, please refer to the official HKS website or contact your authorized HKS dealer. Warranty terms and conditions may vary by region and product.
For technical support, installation assistance, or parts inquiries, please contact HKS customer service through their official channels. Contact information can typically be found on the HKS global website or regional distributor websites.
HKS Official Website: www.hks-power.co.jp/en/

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