

# list of engine parts and their functions Manual

## List of engine parts and their functions

Understanding the intricate components of an engine is essential for both automotive enthusiasts and professionals. The engine, often referred to as the heart of a vehicle, comprises numerous parts working in harmony to generate power and enable motion. This comprehensive guide provides a detailed list of engine parts and their functions, helping you grasp how each component contributes to the overall operation of an internal combustion engine.

## Major Engine Components and Their Functions

The engine's core parts can be categorized into several key systems, including the combustion chamber, lubrication system, cooling system, and the supporting components that facilitate movement and control.

### 1. Cylinder Block

#### Function

The cylinder block is the main structure of the engine, housing the cylinders where combustion occurs. It provides support for other components and maintains the engine's structural integrity under high pressure and temperature.

#### Details

- Contains cylinders, coolant passages, and oil galleries
- Serves as the foundation for attaching other engine parts

### 2. Pistons

#### Function

Pistons are vital for converting the energy from combustion into mechanical motion. They move up and down within the cylinders, driven by the explosion of the fuel-air mixture.

#### Details

- Transmits force from expanding gases to the crankshaft via connecting rods
- Assists in compressing the air-fuel mixture before ignition

### 3. Connecting Rods

#### Function

Connecting rods connect the pistons to the crankshaft, translating the pistons' linear motion into rotational motion.

#### Details

- Bear the force of combustion and transfer it to the crankshaft
- Subject to significant stress and wear

### 4. Crankshaft

#### Function

The crankshaft converts the up-and-down motion of the pistons into rotational energy, which ultimately powers the vehicle.

#### Details

- Rotates within the engine block, supported by bearings
- Connected to the flywheel, timing gears, and other components

### 5. Cylinder Head

#### Function

The cylinder head closes the top of the cylinders, housing vital components like valves and the spark plug.

#### Details

- Contains combustion chambers and passageways for intake and exhaust gases
- Supports valves, spark plugs, and fuel injectors

## 6. Valves (Intake and Exhaust)

### Function

Valves control the flow of air, fuel, and exhaust gases into and out of the combustion chambers.

### Details

- **Intake valves:** Allow the air-fuel mixture into the cylinders
- **Exhaust valves:** Allow burnt gases to exit after combustion

## 7. Camshaft

### Function

The camshaft controls the opening and closing of intake and exhaust valves in synchronization with piston movement.

### Details

- Operates via timing gears or chains connected to the crankshaft
- May have multiple lobes to operate valves for different cylinders

## 8. Timing Belt or Chain

### Function

This component synchronizes the rotation of the crankshaft and camshaft, ensuring valves open and close at proper times.

### Details

- Maintains precise timing for efficient engine operation
- Requires periodic replacement due to wear

## 9. Spark Plugs

### Function

Spark plugs ignite the compressed air-fuel mixture within the combustion chamber, initiating combustion.

### Details

- Provide the spark necessary for ignition
- Must withstand high temperatures and pressures

## 10. Fuel Injectors

### Function

Fuel injectors spray precise amounts of fuel into the combustion chamber or intake manifold for efficient combustion.

### Details

- Operate electronically to control fuel delivery
- Enhance performance and fuel efficiency

## 11. Lubrication System Components

The lubrication system reduces friction and wear within the engine, ensuring smooth operation.

### Key parts include:

- **Oil Pump:** Circulates oil throughout the engine
- **Oil Filter:** Removes contaminants from engine oil
- **Oil Pan:** Stores engine oil at the bottom of the engine
- **Valve Lifters and Pushrods:** Transmit camshaft motion to valves

## 12. Cooling System Components

To prevent overheating, engines rely on a series of cooling parts.

### Major parts include:

- **Radiator:** Dissipates heat from coolant
- **Water Pump:** Circulates coolant through engine and radiator
- **Thermostat:** Regulates coolant flow based on temperature
- **Cylinder Head Gasket:** Seals the combustion chamber and coolant passages

## 13. Exhaust System Components

The exhaust system expels combustion gases and reduces emissions.

### Key parts include:

- **Exhaust Manifold:** Collects gases from cylinders
- **Oxygen Sensors:** Monitor oxygen levels for emissions control
- **Catalytic Converter:** Converts harmful gases into less harmful substances
- **Exhaust Pipe and Muffler:** Reduce noise and direct gases out of the vehicle

## 14. Other Supporting Components

Additional parts that support engine operation include:

- **Flywheel:** Stores rotational energy and smooths engine output
- **Starter Motor:** Initiates engine rotation during startup
- **Alternator:** Generates electrical power to charge the battery and run electrical systems
- **Battery:** Supplies electrical energy for starting and electronics

## Conclusion

A detailed understanding of engine parts and their functions reveals the complexity and precision engineering behind internal combustion engines. Each component, from the cylinders and pistons to the cooling and lubrication systems, plays a critical role in ensuring efficient, reliable operation. Recognizing how these parts work together can aid in maintenance, troubleshooting, and appreciation of automotive engineering. Whether you're a mechanic, a student, or a curious car owner, knowing the functions of these engine parts enhances your overall comprehension of how vehicles move and operate smoothly on the road.

Understanding the list of engine parts and their functions is fundamental for anyone interested in automotive mechanics, whether you're a hobbyist, a student, or a seasoned professional. The engine, often referred to as the heart of the vehicle, comprises numerous components working together to convert fuel into motion. Each part plays a vital role in ensuring the engine operates

efficiently, reliably, and safely. In this comprehensive guide, we will explore the essential engine parts, their specific functions, and how they contribute to the overall performance of your vehicle.

## Introduction to Engine Components

An internal combustion engine is a complex machine consisting of numerous interconnected parts. While many components work simultaneously, understanding the main list of engine parts and their functions provides insight into how engines generate power and how maintenance can optimize performance. Broadly, engine parts can be categorized into moving parts (like pistons and crankshaft), stationary parts (like the cylinder head and engine block), and auxiliary systems (like the cooling and lubrication systems).

## Major Engine Parts and Their Functions

### - Engine Block

#### Function:

The engine block is the core structure of the engine, housing most of the moving parts such as cylinders, pistons, and the crankshaft. It provides the foundation upon which the entire engine is built, offering structural integrity and durability.

#### Key Points:

- Usually made of cast iron or aluminum for strength and weight considerations
- Contains cylinders where combustion occurs
- Houses cooling channels to regulate temperature

### - Cylinders

#### Function:

Cylinders are the chambers inside the engine block where fuel combustion takes place. They are the spaces where pistons move up and down to convert combustion energy into mechanical motion.

#### Key Points:

- Number varies (e.g., 4, 6, 8 cylinders) depending on engine design
- Each cylinder is sealed with a piston and connected to other components

- Pistons

#### Function:

Pistons are cylindrical components that move up and down within the cylinders. They transmit the force generated by combustion to the crankshaft via the connecting rods.

#### Key Points:

- Made of aluminum for lightweight and thermal conductivity
- Equipped with piston rings to seal combustion gases and control oil consumption
- Critical in determining engine compression ratio

- Connecting Rods

#### Function:

Connecting rods link the pistons to the crankshaft. They transfer the reciprocating motion of the pistons into rotational motion of the crankshaft.

#### Key Points:

- Made of steel or aluminum alloy
- Subjected to significant stress; durability is vital

- Crankshaft

#### Function:

The crankshaft converts the linear motion of the pistons into rotational motion, which ultimately drives the vehicle's wheels.

#### Key Points:

- Located at the bottom of the engine block
- Equipped with crankpins and counterweights for smooth operation
- Often connected to a flywheel to smooth out power delivery

- Cylinder Head

Function:

The cylinder head sits atop the engine block, sealing the cylinders and housing vital components like valves, spark plugs, and fuel injectors.

Key Points:

- Contains intake and exhaust ports
- Houses valves and sometimes camshafts in overhead camshaft engines
- Plays a key role in combustion efficiency

- Valves (Intake and Exhaust Valves)

Function:

Valves regulate the flow of air-fuel mixture into the cylinders and exhaust gases out of the cylinders.

Key Points:

- Intake valves allow the mixture into the combustion chamber
- Exhaust valves release burnt gases after combustion
- Operated by the camshaft via rocker arms or directly in overhead cam engines

- Camshaft

Function:

The camshaft controls the timing of opening and closing of the intake and exhaust valves.

Key Points:

- Can be located in the cylinder head (overhead camshaft) or in the engine block (pushrod engines)
- Driven by the crankshaft via a timing belt or chain
- Its precise timing is critical for optimal engine performance

- Timing Belt/Chain

Function:

The timing belt or chain synchronizes the rotation of the crankshaft and camshaft(s), ensuring valves open and close at correct intervals.

Key Points:

- Prevents piston-valve collisions
- Requires regular inspection and replacement to prevent engine damage

- Spark Plug

Function:

The spark plug ignites the air-fuel mixture within the combustion chamber by producing a spark.

Key Points:

- Located in the cylinder head
- Critical for starting the engine and maintaining combustion
- Must be replaced periodically

- Fuel Injector

Function:

Fuel injectors spray a fine mist of fuel into the intake manifold or combustion chamber, depending on the system.

**Key Points:**

- Precisely control fuel delivery for optimal combustion
- Integral to modern fuel-injected engines

- Oil Pump

**Function:**

The oil pump circulates engine oil under pressure to lubricate moving parts, reducing friction and wear.

**Key Points:**

- Located within the oil pan or oil gallery
- Ensures consistent lubrication and cooling

- Lubrication System

**Function:**

Distributes oil throughout the engine to lubricate, cool, and clean components.

**Key Points:**

- Includes oil filter, oil passages, and oil pan
- Essential for engine longevity

- Cooling System Components

**Function:**

Regulates engine temperature to prevent overheating.

**Main Parts:**

- Radiator: Dissipates heat from coolant
- Water Pump: Circulates coolant through the engine and radiator
- Thermostat: Regulates coolant flow based on temperature
- Coolant (antifreeze): Absorbs and transfers heat

#### - Exhaust System Components

Function:

Channels exhaust gases away from the engine and reduces emissions.

Main Parts:

- Exhaust manifold: Collects gases from cylinders
- Catalytic converter: Reduces harmful emissions
- Muffler: Damps noise and reduces exhaust noise

Additional Components Supporting Engine Functionality

#### - Turbocharger and Supercharger

Function:

Force more air into the combustion chamber to increase power output.

Key Points:

- Turbochargers use exhaust gases to spin a turbine, compressing intake air
- Superchargers are belt-driven and provide immediate boost

#### - Flywheel

Function:

Stores rotational energy for smooth engine operation and assists in starting the engine.

## - Valve Lifters and Pushrods

### Function:

Transfer camshaft motion to open the valves in pushrod engines or operate directly in overhead camshaft setups.

### Conclusion

The list of engine parts and their functions illustrates the incredible complexity and precision required to keep an internal combustion engine running smoothly. From the fundamental pistons and cylinders to auxiliary systems like cooling and lubrication, each component plays an integral role in ensuring optimal performance, efficiency, and longevity. A thorough understanding of these parts not only helps in diagnosing issues but also fosters appreciation for automotive engineering. Whether you're maintaining your vehicle or delving into engine design, knowing how each part functions is essential for achieving the best results. Regular maintenance, timely replacement of wear parts, and an understanding of how these components work together will ensure your engine remains reliable and efficient for years to come.

**Question** What are the main components of an internal combustion engine and their functions? The main components include the pistons (convert fuel combustion into mechanical motion), cylinders (house the pistons), crankshaft (transfers motion to the drivetrain), valves (control intake and exhaust gases), and the camshaft (operates the valves). **Answer** How does the fuel injector function within an engine? The fuel injector sprays fuel into the combustion chamber or intake manifold in a precise spray pattern, ensuring efficient combustion and optimal engine performance. What role does the timing belt or chain play in an engine? The timing belt or chain synchronizes the rotation of the crankshaft and camshaft, ensuring valves open and close at the correct times during the engine cycle. Can you explain the purpose of the radiator and cooling system parts? The radiator dissipates heat from the engine coolant, which absorbs heat from the engine to prevent overheating. Other parts include the water pump, thermostat, and hoses, all working together to maintain optimal engine temperature. What are the functions of the engine's lubrication system parts? The lubrication system uses parts like the oil pump, oil filter, and oil passages to circulate oil, reducing friction, cooling engine components, and preventing wear and corrosion.

**Related keywords:** engine components, engine parts, engine functions, internal combustion engine, engine diagram, engine maintenance, engine assembly, engine troubleshooting, engine repair, engine overview

**ndc engine bearings nissanshop**

## **ndc engine bearings nissanshop: Your Ultimate Guide to High-Quality Engine Bearings for Nissan Vehicles**

When it comes to maintaining the performance and longevity of your Nissan vehicle, choosing the right engine components is crucial. Among these, engine bearings play a vital role in ensuring smooth operation and preventing costly engine damage. **ndc engine bearings nissanshop** stands out as a trusted source for high-quality engine bearings designed specifically for Nissan models. In this comprehensive guide, we'll delve into everything you need to know about NDC engine bearings, their benefits, installation tips, and why purchasing from NissanShop is the smart choice for Nissan enthusiasts and professional mechanics alike.

## **Understanding NDC Engine Bearings**

### **What Are Engine Bearings?**

Engine bearings are crucial components that support the crankshaft and connecting rods within the engine. They facilitate smooth rotation, reduce friction, and absorb vibrations, ensuring efficient engine performance. Typically made from durable metals and composites, these bearings are designed to withstand high pressures and temperatures.

### **Who Is NDC?**

NDC (Nissan Distribution Center) is renowned for manufacturing high-precision engine bearings tailored specifically for Nissan vehicles. Known for their durability and perfect fit, NDC bearings meet or exceed OEM specifications, making them a popular choice among mechanics and Nissan owners.

### **Why Choose NDC Engine Bearings?**

Choosing NDC engine bearings offers numerous benefits:

- High-Quality Materials: Ensures durability and long service life.
- OEM Compatibility: Perfect fit with Nissan engines.
- Enhanced Performance: Reduces friction and wear, improving engine efficiency.
- Cost-Effective: Prevents costly repairs caused by bearing failure.
- Availability: Widely stocked at NissanShop for quick procurement.

## **Features of NDC Engine Bearings Available at NissanShop**

### **Product Range**

NissanShop offers an extensive selection of NDC engine bearings compatible with various Nissan models, including:

- Sentra
- Altima
- Maxima
- 370Z
- Pathfinder
- Frontier
- And many more

## Types of NDC Engine Bearings

The product lineup includes:

- **Main Bearings:** Support the crankshaft within the engine block.
- **Connecting Rod Bearings:** Support the connecting rods during engine operation.
- **Thrust Bearings:** Control axial movement of the crankshaft.

## Material Composition and Construction

NDC bearings are manufactured using advanced materials such as:

- Aluminum alloys for lightweight strength
- Bronze and copper layers for excellent wear resistance
- Polymer overlays for reducing friction

This combination offers optimal durability, heat resistance, and performance.

## Benefits of Purchasing NDC Engine Bearings from NissanShop

### Authenticity and Quality Assurance

NissanShop ensures all NDC engine bearings are genuine products, meeting strict OEM standards. Buying from a trusted dealer guarantees you're receiving authentic parts, reducing the risk of counterfeit components.

### Competitive Pricing

NissanShop offers competitive prices on all NDC bearings, often providing discounts and bundle deals, making it affordable to maintain your Nissan's engine.

## Expert Guidance and Support

The NissanShop team comprises knowledgeable professionals who can assist you in selecting the right bearings for your specific Nissan model and engine type.

## Fast and Reliable Shipping

With efficient logistics, NissanShop ensures quick delivery, minimizing downtime during repairs or upgrades.

## Installation and Maintenance Tips for NDC Engine Bearings

### Pre-Installation Checks

Before installing new NDC engine bearings:

- Inspect the crankshaft and connecting rods for damage or wear.
- Ensure the engine block is clean and free of debris.
- Verify the bearings are the correct size and type for your engine.

### Installation Process

While professional installation is recommended, the basic steps include:

- Removing the old bearings and cleaning the bearing surfaces.
- Applying assembly lube to the new bearings.
- Positioning the bearings correctly, aligning with the oil holes.
- Reassembling the engine components carefully, ensuring proper torque specifications.

### Post-Installation Maintenance

Regular oil changes, using high-quality oil, and periodic engine inspections can prolong the lifespan of your engine bearings.

## Common Symptoms of Worn or Failing Engine Bearings

Being vigilant about engine health can prevent severe damage. Watch out for:

- Unusual knocking or ticking noises from the engine.
- Increased oil consumption or oil leaks.
- Decreased engine performance or power loss.
- Engine overheating.
- Metal debris in the oil during changes.

If you notice any of these symptoms, consult a mechanic promptly to assess whether your engine bearings need replacement.

## **Why Choose NissanShop for Your NDC Engine Bearings?**

### **Authorized Dealer**

NissanShop is an authorized distributor and retailer of genuine Nissan parts, including NDC engine bearings. This guarantees authenticity and compatibility.

### **Extensive Inventory**

With a vast stock of engine bearings for various Nissan models, NissanShop ensures quick availability and delivery.

### **Customer Satisfaction**

NissanShop prioritizes customer service, offering expert advice, easy ordering processes, and after-sales support.

### **Warranty and Return Policies**

All products come with warranties, and straightforward return policies ensure customer confidence and satisfaction.

## **Final Thoughts**

Maintaining your Nissan's engine with high-quality components like NDC engine bearings is essential for optimal performance and durability. Purchasing from NissanShop guarantees access to genuine, reliable parts at competitive prices, backed by expert support. Whether you're performing routine maintenance or repairing engine damage, choosing the right bearings and sourcing them from a trusted supplier can make all the difference.

Investing in NDC engine bearings from NissanShop not only protects your vehicle but also enhances its efficiency and lifespan. Keep your Nissan running smoothly by selecting the best components, and enjoy peace of mind knowing you're using parts designed specifically for your vehicle.

Remember: Regular inspections and timely replacements of engine bearings can save you from costly repairs down the line. For the best quality NDC engine bearings and professional guidance, trust NissanShop ? your one-stop shop for all Nissan parts and accessories.

## NDC Engine Bearings Nissanshop: Your Comprehensive Guide to Ensuring Engine Longevity and Performance

When it comes to maintaining the health and performance of your Nissan engine, choosing the right components is paramount. One critical component that often goes unnoticed until it causes significant problems is the engine bearing. In particular, NDC engine bearings Nissanshop have garnered attention for their quality, reliability, and performance. Whether you're a professional mechanic, a dedicated DIY enthusiast, or a Nissan owner seeking to understand more about engine components, this guide will provide an in-depth look into NDC engine bearings, their role in your vehicle, and why sourcing them from Nissanshop is a smart choice.

### What Are NDC Engine Bearings?

#### Understanding Engine Bearings

Engine bearings are small, vital components that facilitate smooth movement between the engine's moving parts, primarily supporting the crankshaft and connecting rods. They reduce friction, absorb shocks, and help maintain precise alignment within the engine block.

#### The Role of NDC Engine Bearings

NDC engine bearings are designed to meet or exceed OEM specifications, ensuring durability, optimal lubrication, and efficient load distribution. Manufactured with high-quality materials, they help prevent common engine issues such as knocking, excessive wear, and catastrophic failures.

### Why Choose NDC Engine Bearings from Nissanshop?

#### Quality Assurance and Authenticity

Nissanshop specializes in providing genuine Nissan parts, and NDC engine bearings are no exception. Purchasing from a trusted source guarantees:

- Authenticity of parts
- Compatibility with your Nissan model
- High manufacturing standards
- Proven performance and longevity

### Competitive Pricing

Nissanshop offers competitive prices without compromising quality, making it an economical choice for repairs and replacements.

### Wide Selection and Availability

From standard replacements to high-performance variants, Nissanshop stocks a comprehensive range of NDC engine bearings suited for various Nissan models, ensuring you find the right fit.

### Key Features of NDC Engine Bearings

#### Material Composition

NDC engine bearings typically utilize advanced materials such as:

- Aluminum alloys for lightweight strength
- Copper-lead alloys for excellent conformability
- Composite materials for enhanced wear resistance

#### Design and Engineering

- Precision-machined surfaces for perfect fit and reduced friction
- Optimized oil grooves to improve lubrication
- Load-bearing capacity tailored to engine specifications

#### Durability and Reliability

Engine bearings are subjected to extreme forces and temperatures. NDC bearings are engineered to withstand such conditions, reducing the risk of premature failure.

#### Installation and Maintenance Tips

Proper installation and maintenance are crucial to maximizing the lifespan of your engine bearings.

Here's a step-by-step guide:

### Pre-Installation Checks

- Verify the part number and compatibility with your Nissan model.
- Inspect bearings for any damages or defects upon receipt.
- Gather necessary tools and lubricants as specified by manufacturer instructions.

### Installation Process

- Prepare the engine block: Clean thoroughly to remove debris and old bearing material.
- Inspect crankshaft and connecting rods: Check for wear or damage; replace if necessary.
- Apply proper lubrication: Use assembly lube to prevent dry starts.
- Install the bearings: Ensure correct orientation and alignment with oil holes.
- Reassemble engine components: Follow torque specifications meticulously.
- Perform a thorough engine check: Monitor oil pressure and temperature during initial startup.

### Post-Installation Maintenance

- Regularly check oil levels and quality.
- Change oil and filter at manufacturer-recommended intervals.
- Listen for unusual noises or vibrations that may indicate bearing wear.

### Common Issues Related to Engine Bearings and How NDC Bearings Help

#### Symptoms of Worn or Damaged Bearings

- Engine knocking or rumbling sounds
- Low oil pressure
- Metal shavings in oil filter
- Excessive engine vibration

#### How NDC Engine Bearings Address These Issues

- High-quality materials resist wear and deformation
- Precise manufacturing ensures a snug fit, reducing movement

- Enhanced lubrication channels minimize friction and heat buildup

## Choosing the Right NDC Engine Bearings for Your Nissan

### Model Compatibility

Ensure you select bearings designed specifically for your Nissan model and engine type. Nissanshop provides detailed catalogs and guidance.

### Performance Needs

Consider whether your vehicle needs standard replacement bearings or high-performance variants for racing or heavy-duty use.

### Budget Considerations

While quality is paramount, Nissanshop offers options across different price ranges, allowing you to balance cost and performance.

### Final Thoughts: Investing in Quality for Longevity

Your vehicle's engine is its heart, and engine bearings are among its most vulnerable components. Investing in NDC engine bearings Nissanshop means choosing reliability, efficiency, and peace of mind. Proper maintenance, timely replacements, and sourcing genuine parts are key to ensuring your Nissan runs smoothly for years to come.

Remember, always consult with qualified professionals or refer to your vehicle's service manual when replacing engine bearings. With the right parts and proper care, your Nissan can deliver optimal performance and durability, mile after mile.

In summary, NDC engine bearings Nissanshop represent a blend of quality engineering and trusted sourcing, making them an excellent choice for Nissan enthusiasts and mechanics alike. Prioritize genuine parts, adhere to best installation practices, and stay vigilant with maintenance?your engine will thank you.

**QuestionAnswer** What are NDC engine bearings available at Nissanshop? NDC engine bearings at Nissanshop are high-quality replacement components designed to ensure optimal performance and durability for Nissan engines. They are essential for maintaining engine integrity and smooth operation. How do I identify the right NDC engine bearings for my Nissan vehicle? To identify the correct NDC engine bearings, check your vehicle's model, engine type, and serial number. Nissanshop provides detailed compatibility charts and support to help you select the right bearings

for your Nissan. Are NDC engine bearings at Nissanshop compatible with all Nissan models? NDC engine bearings are compatible with a wide range of Nissan models, but compatibility varies by engine type and year. Always verify your vehicle details with Nissanshop's compatibility guide before purchasing. What are the benefits of choosing NDC engine bearings from Nissanshop? NDC engine bearings from Nissanshop offer superior quality, precise fitment, and enhanced engine performance. They also contribute to reduced engine wear and longer service life. How do I install NDC engine bearings from Nissanshop? Installation of NDC engine bearings should be performed by a professional mechanic or experienced technician, following manufacturer guidelines to ensure proper fitment and engine safety. Are NDC engine bearings at Nissanshop covered by warranty? Yes, Nissanshop typically offers warranties on NDC engine bearings, covering manufacturing defects and ensuring peace of mind with your purchase. Check specific warranty details at the time of purchase. What is the price range for NDC engine bearings at Nissanshop? The price of NDC engine bearings varies depending on the model and engine type but generally ranges from affordable to premium. For exact pricing, visit Nissanshop's website or contact their customer service. Why should I choose NDC engine bearings over other brands at Nissanshop? NDC engine bearings are known for their high quality, precise engineering, and reliable performance, making them a trusted choice for Nissan owners seeking durability and optimal engine function.

**Related keywords:** NDC engine bearings, Nissan shop parts, engine bearing replacement, Nissan engine repair, NDC engine components, Nissan engine bearing kit, Nissan engine maintenance, NDC automotive parts, Nissan engine service, engine bearing supplier

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