

mercedes om 460 diesel engine specification Updated Version

Mercedes OM 401 Manual: A Comprehensive Guide to the Legendary Engine

The Mercedes OM 401 manual engine stands as a testament to Mercedes-Benz's engineering prowess and commitment to durability, performance, and reliability. As part of Mercedes' OM series of engines, the OM 401 has garnered respect among truck owners, mechanics, and enthusiasts worldwide. This article provides an in-depth exploration of the OM 401 manual transmission variant, covering its specifications, performance, maintenance tips, and historical significance.

Introduction to the Mercedes OM 401 Engine

The Mercedes OM 401 engine was introduced in the late 20th century as a part of Mercedes-Benz's heavy-duty diesel engine lineup. Designed primarily for trucks and commercial vehicles, the OM 401 is renowned for its robust construction, fuel efficiency, and ease of maintenance. The "OM" series signifies "Oelmotor," meaning oil engine, highlighting its diesel nature.

The OM 401 is typically paired with a manual transmission, offering drivers greater control over power delivery, especially suited for heavy hauling and demanding driving conditions. The manual variants of the OM 401 are highly valued for their durability and straightforward mechanics, making them popular among fleet operators and enthusiasts alike.

Specifications of the Mercedes OM 401 Manual Engine

Understanding the technical details of the OM 401 manual engine is essential for owners and mechanics. Below are the key specifications:

Engine Type and Configuration

- Type: 4-cylinder, turbocharged diesel engine
- Displacement: Approximately 7.7 liters (7700 cc)
- Cooling System: Water-cooled
- Fuel System: Direct injection

Performance Metrics

- Maximum Power: Around 170-200 horsepower (varies by model and market)
- Peak Torque: Approximately 500-700 Nm
- Compression Ratio: 17.5:1

Transmission Compatibility

- Typically mated with a 5 or 6-speed manual transmission, designed for heavy-duty use.
- The manual gearbox provides precise control, especially valuable in low-speed, high-torque scenarios.

Physical Dimensions and Weight

- Engine Length/Width/Height: Compact enough for various chassis configurations
- Weight: Approximately 600-700 kg, depending on configuration

Performance and Applications of the OM 401 Manual

The OM 401 manual engine is celebrated for its:

- Durability: Built to withstand harsh conditions, making it ideal for long-haul trucking and construction.
- Fuel Efficiency: Optimized for economy over extended periods of operation.
- Ease of Maintenance: Mechanical simplicity ensures straightforward repairs and part replacements.

Common Applications

- Heavy-duty trucks: Mercedes-Benz Actros, Axor, and other commercial models.
- Construction equipment: Dump trucks, cement mixers, and cranes.
- Agricultural machinery: Large harvesters and transport vehicles.

Advantages of the Mercedes OM 401 Manual Transmission

Choosing a manual transmission for the OM 401 engine offers several benefits:

- Enhanced Driver Control: Manual gearboxes allow precise handling, especially when navigating

challenging terrains or heavy loads.

- Fuel Economy: Skilled drivers can optimize fuel consumption by selecting appropriate gears.
- Simpler Maintenance and Repair: Manual transmissions have fewer complex components than automatics, reducing repair costs and downtime.
- Greater Longevity: Properly maintained manual gearboxes can last significantly longer, aligning with the engine's durability.

Maintenance Tips for the OM 401 Manual Engine

Proper maintenance is critical for ensuring the longevity and optimal performance of the OM 401 engine and its manual transmission. Here are essential tips:

Regular Oil Changes

- Use high-quality diesel engine oil suitable for heavy-duty engines.
- Change oil and oil filters every 10,000 to 15,000 km, or as recommended by the manufacturer.

Cooling System Maintenance

- Check coolant levels regularly.
- Flush and replace coolant every 2-3 years to prevent overheating.

Fuel System Care

- Use clean, high-quality diesel.
- Replace fuel filters periodically to prevent clogging and ensure efficient combustion.

Transmission and Clutch Inspection

- Check clutch operation for slipping or unusual noises.
- Inspect gear linkage and synchronizers for wear and tear.
- Replace clutch components as needed to maintain smooth gear shifting.

Engine and Transmission Alignment

- Ensure proper mounting and alignment for optimal operation.

- Regularly inspect for leaks, unusual vibrations, or performance drops.

Component Replacement Parts

- Use genuine Mercedes-Benz parts for replacements.
- Keep spare parts like filters, belts, and seals on hand for timely replacements.

Common Issues and Troubleshooting

While the OM 401 manual engine is known for its robustness, owners may encounter certain common issues:

- **Clutch Wear:** Due to heavy-duty use, clutch plates may wear out faster; regular inspection is vital.
- **Fuel Injector Problems:** Clogging can lead to rough idling or power loss; cleaning or replacing injectors resolves this.
- **Overheating:** Caused by cooling system failures; regular coolant checks prevent this.
- **Transmission Difficulties:** Gear slipping or difficulty engaging gears may indicate worn synchronizers or linkage problems.

Regular maintenance and timely repairs are essential to address these issues effectively.

Historical Significance and Legacy of the OM 401 Manual

The Mercedes OM 401 engine, especially in its manual transmission configuration, has left a lasting legacy in the commercial vehicle industry. Its reputation for longevity and reliability has made it a preferred choice for fleet operators and mechanics worldwide.

Over the years, the OM 401 has been praised for:

- Its straightforward mechanical design, making it accessible for repairs.
- Its adaptability across various heavy-duty applications.
- Its contribution to Mercedes-Benz's reputation as a producer of durable commercial engines.

Many classic Mercedes trucks equipped with the OM 401 manual engine are still operational today, a testament to the engine's enduring quality.

Conclusion

The Mercedes OM 401 manual engine stands as a symbol of durability, performance, and reliability in the realm of heavy-duty diesel engines. Its robust construction, coupled with the control offered by the manual transmission, makes it an excellent choice for demanding applications. Proper maintenance, understanding its specifications, and addressing issues promptly can ensure this engine continues to perform efficiently for years to come.

Whether you are a fleet operator, mechanic, or enthusiast, knowing the ins and outs of the OM 401 manual engine empowers you to optimize its performance and extend its lifespan. As a cornerstone of Mercedes-Benz's legacy in heavy-duty engineering, the OM 401 remains a highly respected engine model in the commercial vehicle industry.

Keywords for SEO Optimization:

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Mercedes OM 401 Manual: An In-Depth Review of the Classic Diesel Engine

The Mercedes OM 401 manual is a renowned diesel engine that exemplifies Mercedes-Benz's engineering prowess during the late 20th century. As a cornerstone of commercial and industrial applications, this engine has gained recognition for its durability, performance, and mechanical simplicity. In this comprehensive review, we explore the technical specifications, design features, operational characteristics, maintenance considerations, and the legacy of the OM 401 manual transmission variant, providing enthusiasts and professionals alike with a detailed understanding of this classic powerplant.

Introduction to the Mercedes OM 401 Engine

Historical Context and Development

The Mercedes OM 401 was developed during a period when diesel engines were rapidly evolving to meet the demands of commercial transportation, construction, and industrial machinery. Emerging in the late 1970s and early 1980s, the OM 401 was part of Mercedes-Benz's OM series, which emphasized reliability, efficiency, and ease of maintenance.

Designed primarily as a heavy-duty engine, the OM 401 was used in trucks, buses, and industrial applications. Its design philosophy focused on robust construction and straightforward mechanics, making it a popular choice among fleet operators and service technicians.

Engine Overview

The OM 401 is a 6-cylinder, inline diesel engine with a displacement typically around 11.6 liters (depending on specific model variations). It features a direct fuel injection system, turbocharging options, and a manual transmission interface, aligning with its purpose as a workhorse engine for demanding applications.

Key Highlights:

- Inline 6-cylinder configuration
- Naturally aspirated or turbocharged variants
- Mechanical fuel injection system
- Robust cast iron block and cylinder head
- Designed for high torque output and longevity

Technical Specifications and Design Features

Engine Block and Cylinder Head

The OM 401's engine block is constructed from high-quality cast iron, providing the strength necessary to withstand high compression ratios and operational stresses. The inline configuration ensures smooth power delivery and balanced operation. The cylinder head is similarly robust, with ample cooling passages to mitigate heat buildup during prolonged use.

Fuel System

The engine employs a mechanical direct injection fuel system, which allows precise control over fuel delivery. This system, while less sophisticated than electronic injection, offers ease of maintenance and durability—traits highly valued in industrial settings.

- Injector Type: Mechanical direct injection
- Fuel Pump: Mechanical fuel injection pump, often of the Bosch or similar make
- Fuel Capacity: Typically around 300 liters, depending on the application

Turbocharging and Air Intake

Many OM 401 variants are equipped with turbochargers, which significantly enhance power output and efficiency. The turbo system used is typically a fixed-geometry type, designed for durability and straightforward maintenance.

Benefits of Turbocharging:

- Increased power density
- Improved fuel efficiency
- Better torque at low RPMs

Lubrication and Cooling

The engine features a comprehensive lubrication system with a high-capacity oil pan and oil pump, ensuring proper lubrication during heavy-duty operation. The cooling system comprises a water pump, radiator, and thermostatic controls to maintain optimal operating temperatures.

Power and Torque Output

Depending on configuration, the OM 401 can produce:

- Power: Approximately 180 to 210 horsepower
- Torque: Up to 700 Nm (around 516 lb-ft)

These figures emphasize its suitability for hauling heavy loads and sustaining long operational hours.

The Manual Transmission in Mercedes OM 401

Transmission Overview

The OM 401 engine is commonly paired with a manual transmission, typically a 5 or 6-speed gearbox designed for industrial and commercial use. The manual gearbox complements the engine's robust torque characteristics, offering precise control and durability.

Features of the Manual Transmission

- Gear Ratios: Optimized for torque multiplication and fuel efficiency
- Clutch System: Heavy-duty clutch designed to handle high torque loads
- Shift Mechanism: Mechanical linkage, often with a synchromesh system on higher gears for smoother shifting
- Drive Configuration: Usually rear-wheel drive, with drive shafts transmitting power from the gearbox to the axles

Advantages of the Manual Transmission:

- Greater driver control, especially in heavy-duty applications
- Improved reliability and ease of maintenance
- Cost-effectiveness compared to automatic counterparts

Operational Characteristics

Drivers operating the OM 401 with manual transmission appreciate the engine's predictable power delivery and the ability to select gears based on load and terrain. Proper operation requires familiarity with clutch engagement and gear shifting techniques to minimize wear and maximize engine longevity.

Performance Analysis and Practical Applications

Strengths of the OM 401 with Manual Transmission

- **Durability:** Known for its longevity, many OM 401 engines have surpassed hundreds of thousands of operational hours with routine maintenance.
- **Torque Delivery:** High torque at low RPM enables excellent towing and hauling capabilities.
- **Ease of Maintenance:** Mechanical systems are straightforward, making repairs accessible even in less-equipped settings.
- **Fuel Efficiency:** When properly tuned, the engine offers respectable fuel economy for its class.

Limitations and Challenges

- **Mechanical Complexity:** While robust, the mechanical fuel injection and turbo systems require proper maintenance to prevent performance degradation.
- **Age-Related Wear:** As an older engine design, parts may be scarce or require refurbishment.
- **Emissions Compliance:** Meeting modern emissions standards can be challenging without significant modifications.

Typical Applications

The OM 401 with manual transmission found its niche in:

- Commercial trucks and lorries

- Buses and passenger transport services
- Construction machinery and industrial equipment
- Marine and agricultural applications

Its ability to operate reliably under strenuous conditions made it a preferred choice in regions with limited access to advanced electronic systems.

Maintenance and Troubleshooting

Routine Maintenance Tips

- Regular Oil Changes: Use high-quality diesel engine oil and adhere to specified intervals.
- Fuel System Checks: Clean or replace filters periodically; inspect injectors for proper spray patterns.
- Cooling System Maintenance: Flush radiators and check coolant levels to prevent overheating.
- Clutch Inspection: Monitor clutch engagement and replace worn components to avoid slipping.
- Turbocharger Care: Ensure proper lubrication and inspect for shaft play or oil leaks.

Common Issues and Solutions

- Starting Difficulties: Often caused by glow plug failure or fuel injection issues; check electrical connections and injector operation.
- Loss of Power: Could result from clogged filters, worn injectors, or turbocharger problems.
- Excessive Smoke: Indicates incomplete combustion, possibly due to injector wear or poor fuel quality.
- Vibrations or Noise: Worn engine mounts or imbalance in rotating parts; inspect and replace as needed.

Legacy and Modern Relevance

Despite technological advancements, the Mercedes OM 401 engine remains a benchmark of rugged industrial diesel design. Its manual transmission variant exemplifies the principles of mechanical simplicity and reliability, qualities still appreciated in niche markets, vintage vehicle restorations, and developing regions.

In recent years, environmental regulations have pushed manufacturers toward electronic controls and cleaner emissions systems. However, the OM 401 endures as a testament to robust engineering, with many units still in active service, underscoring its durability.

Future Outlook:

While newer engines incorporate electronic management and emissions controls, the OM 401's straightforward mechanical design offers advantages in repairability and longevity. As a result, it continues to be relevant for applications where simplicity and dependability outweigh the benefits of modern electronic systems.

Conclusion

The Mercedes OM 401 manual engine stands as a classic example of industrial diesel engineering—built to last, straightforward to maintain, and capable of delivering high torque and power in demanding conditions. Its combination of a robust inline-six configuration, mechanical fuel injection, turbocharging options, and a durable manual transmission make it a favorite among enthusiasts and operators who value reliability over complexity.

While it may no longer represent the cutting edge of engine technology, the OM 401's legacy persists through its proven performance, ease of repair, and the invaluable lessons it offers in mechanical design. For those seeking a dependable powerplant with a storied history, the OM 401 remains a compelling choice—embodying the resilience and engineering excellence that Mercedes-Benz has long been celebrated for.

Question What are the key features of the Mercedes OM 401 manual engine? The Mercedes OM 401 manual engine is known for its reliability, robust construction, and efficient performance. It typically features a turbocharged, four-cylinder diesel configuration with manual transmission options, making it suitable for commercial and industrial applications. **How do I perform basic maintenance on a Mercedes OM 401 manual engine?** Basic maintenance includes regular oil and filter changes, checking and replacing air filters, inspecting fuel injectors, and ensuring coolant levels are adequate. Always refer to the specific service manual for detailed procedures and recommended intervals. **What are common issues faced with the Mercedes OM 401 manual engine?** Common issues include fuel pump failures, injector problems, overheating due to cooling system issues, and wear of mechanical components. Proper maintenance and timely repairs help mitigate these problems. **Is the Mercedes OM 401 engine suitable for retrofit or conversion projects?** Yes, the OM 401 can be used in retrofit projects, especially for classic trucks or custom builds, due to its durability. However, modifications may be necessary to fit the engine into different chassis and to meet modern emissions standards. **Where can I find manuals and technical documentation for the Mercedes OM 401 manual engine?** Official Mercedes-Benz service manuals, technical documentation, and parts catalogs can be obtained from authorized dealers, specialized workshops, or online platforms dedicated to Mercedes-Benz industrial engine manuals. **Are there any performance upgrades available for the Mercedes OM 401 manual engine?** Performance upgrades such as intercoolers, remapping, and improved fuel injection systems can enhance the OM 401's power and efficiency. However, these modifications should be performed by qualified technicians to

ensure reliability. How does the Mercedes OM 401 manual compare to newer diesel engines? The OM 401 is considered a durable, older-generation diesel engine. While it offers reliability and ease of maintenance, newer engines tend to provide better fuel efficiency, lower emissions, and advanced electronic controls. What should I consider when purchasing a used Mercedes OM 401 manual engine? Inspect the engine for signs of wear, leaks, and corrosion. Verify maintenance history, and ensure it has been regularly serviced. It's also advisable to test-run the engine if possible and obtain a professional assessment before purchase.

Related keywords: Mercedes OM 401 manual, OM 401 engine specs, OM 401 diesel manual, Mercedes OM 401 maintenance, OM 401 engine repair, OM 401 technical data, Mercedes OM 401 parts manual, OM 401 performance, OM 401 troubleshooting, Mercedes OM 401 service manual

Mercedes benz w124 diesel repair manual

Mercedes Benz W124 Diesel Repair Manual: Your Ultimate Guide to Maintenance and Repairs

The Mercedes Benz W124 series is renowned for its durability, reliability, and timeless design. Among its various engine options, the diesel variants stand out for their impressive longevity and fuel efficiency. However, like any vehicle, the W124 diesel models require routine maintenance and occasional repairs to keep them running smoothly. Whether you are a seasoned mechanic or a passionate DIY enthusiast, having a comprehensive **Mercedes Benz W124 diesel repair manual** is essential to diagnose issues accurately, perform repairs efficiently, and extend the lifespan of your vehicle.

In this guide, we will explore the key aspects of W124 diesel repair, including essential maintenance tips, common repairs, troubleshooting procedures, and where to find reliable manuals to support your repair journey.

Understanding the Mercedes Benz W124 Diesel Engine

Before diving into repair specifics, it's important to familiarize yourself with the W124 diesel engine configurations and their common characteristics.

Engine Variants

The W124 series was equipped with several diesel engines over its production years, including:

- OM601: 2.0L inline-4, mostly used in early models
- OM602: 2.5L inline-5, known for durability
- OM603: 3.0L inline-6, a popular choice for its balance of power and efficiency
- OM606: 3.0L inline-6 turbocharged, offering increased performance

Understanding which engine your W124 has is crucial for selecting the right repair procedures and parts.

Common Characteristics of W124 Diesel Engines

- Robust construction designed for longevity
- Simple mechanical fuel injection systems, especially in earlier models
- Intercooler and turbocharging in later models for enhanced power
- Generally reliable but prone to specific issues over time

Having a dedicated **Mercedes Benz W124 diesel repair manual** tailored to your engine type ensures you have accurate, model-specific guidance.

Essential Maintenance for W124 Diesel Vehicles

Regular maintenance is the foundation of reliable operation. The repair manual provides detailed procedures for routine tasks.

Oil and Filter Changes

- Change engine oil every 5,000 to 7,500 miles, depending on driving conditions.
- Use the recommended oil grade as specified in your manual.
- Replace oil filters during every oil change to prevent engine wear.

Fuel System Maintenance

- Replace fuel filters every 10,000 to 15,000 miles.
- Bleed the fuel system when replacing filters or performing repairs.
- Inspect fuel lines for leaks or cracks.

Cooling System Checks

- Flush coolant every 2 to 3 years.
- Check radiator, hoses, and water pump for leaks or wear.
- Replace thermostat if overheating occurs.

Brake System Inspection

- Regularly inspect brake pads, rotors, and fluid levels.
- Replace brake fluid every 2 years to maintain braking efficiency.
- Check for leaks in brake lines.

Common Repairs and Troubleshooting

Over the years, certain issues tend to recur in W124 diesel models. A comprehensive **Mercedes Benz W124 diesel repair manual** provides step-by-step troubleshooting guides for these problems.

Engine Starting Problems

- Causes may include faulty glow plugs, fuel pump issues, or battery problems.
- Check glow plug operation during cold starts.
- Test the fuel pump for proper pressure and flow.
- Inspect the battery and starter motor.

Loss of Power or Poor Performance

- Common causes include clogged fuel filters, turbocharger issues, or clogged air filters.
- Clean or replace air filters regularly.
- Check the turbocharger for leaks or damage.
- Use diagnostic tools to scan for error codes.

Excessive Smoke Emissions

- Black smoke indicates too much fuel or poor combustion.
- Verify fuel injectors are functioning correctly.
- Check for issues with the injection pump.
- Ensure proper air intake and turbo operation.

Engine Overheating

- Potential causes include low coolant levels, faulty thermostats, or water pump failures.
- Regularly inspect coolant levels.
- Replace thermostat if stuck open or closed.
- Check water pump for leaks or bearing wear.

Transmission Troubles

- Fluid leaks or shifting issues are common.
- Replace transmission fluid and filter as per manual instructions.
- Inspect linkage and sensors.

Where to Find Reliable Mercedes Benz W124 Diesel Repair Manuals

Having access to a detailed repair manual is vital for safe and effective maintenance. Here are some trusted sources:

- **Official Mercedes-Benz Service Manuals:** Available through authorized dealerships or subscription-based services.
- **Haynes and Chilton Manuals:** Offer comprehensive, user-friendly guides suitable for DIY repairs.
- **Online Forums and Communities:** Websites like BenzWorld or PeachParts provide shared manuals, tips, and advice from experienced owners.
- **Digital PDF Manuals:** Available for purchase from online retailers or specialist automotive manual providers.

Always ensure the manual is specific to your W124 model year and engine type to guarantee accurate repair procedures.

Tips for Using Your Mercedes Benz W124 Diesel Repair Manual Effectively

- **Read the Entire Procedure First:** Familiarize yourself with the steps before starting repairs.
- **Organize Your Tools and Parts:** Prepare all necessary tools and replacement parts beforehand.
- **Follow Safety Precautions:** Use proper safety gear and work in a well-ventilated area.
- **Keep Track of Disconnected Parts:** Use labels or photos to aid reassembly.
- **Regularly Consult the Manual:** Refer to diagrams and troubleshooting tips to avoid mistakes.

Conclusion

Maintaining and repairing your Mercedes Benz W124 diesel vehicle can be a rewarding experience, especially when armed with a comprehensive **Mercedes Benz W124 diesel repair manual**. From routine maintenance to complex repairs, having detailed, model-specific instructions ensures that your classic Mercedes continues to perform reliably for years to come. Whether you're tackling a simple oil change or diagnosing a stubborn engine issue, the right manual provides the guidance you need to complete the job safely and effectively.

Investing in a quality repair manual and dedicating time to proper maintenance not only preserves the value of your W124 but also deepens your understanding of this iconic vehicle. With patience, the right resources, and a methodical approach, you can enjoy the satisfaction of keeping your Mercedes Benz W124 diesel running smoothly for many miles ahead.

Mercedes Benz W124 Diesel Repair Manual

The Mercedes-Benz W124 series, produced from 1984 to 1997, remains one of the most revered models in automotive history, celebrated for its robustness, engineering excellence, and timeless design. Among its variants, the diesel models—such as the 300D, 300TD, and 300SD—are especially renowned for their durability and fuel efficiency. For enthusiasts, mechanics, or owners seeking to maintain or restore these vehicles, the Mercedes Benz W124 Diesel Repair Manual is an indispensable resource. In this article, we delve into the comprehensive features of this manual, exploring how it empowers users with detailed guidance on diagnosing, repairing, and maintaining these classic diesel beasts.

Introduction to the Mercedes Benz W124 Diesel Series

The W124 series symbolizes Mercedes-Benz's commitment to engineering excellence, combining solid build quality with sophisticated engineering. The diesel variants, predominantly featuring the OM601 and OM602 engines, are lauded for their longevity and resilience. However, like any aging vehicle, they require meticulous maintenance and expert knowledge for repairs—making a dedicated repair manual invaluable.

The W124 diesel models are characterized by:

- Durable diesel engines: The OM601 (4-cylinder) and OM602 (6-cylinder) engines are known for their longevity.
- Robust chassis and body: Designed for safety and durability.
- Complex systems: Including fuel injection, ignition, cooling, and electrical systems that demand precise troubleshooting.

A repair manual tailored for these vehicles provides the necessary technical details, step-by-step

procedures, and specifications to ensure proper servicing.

Overview of the Mercedes Benz W124 Diesel Repair Manual

The Mercedes Benz W124 Diesel Repair Manual is a comprehensive technical document designed for both professional mechanics and dedicated DIY enthusiasts. It offers detailed instructions, high-quality diagrams, troubleshooting guides, and specifications across all major systems of the vehicle.

Key Features of the Manual

- **Extensive Coverage:** Covers all W124 diesel models, including sedans, wagons, coupes, and convertibles.
- **Systematic Approach:** Organized by system—engine, transmission, brakes, electrical, climate control, suspension, and bodywork.
- **Step-by-Step Procedures:** Clear instructions for disassembly, repair, and reassembly.
- **Diagnostic Guides:** Troubleshooting flowcharts and codes to identify issues efficiently.
- **Specification Tables:** Precise torque settings, fluid capacities, wiring diagrams, and more.
- **Photographs and Diagrams:** Visual aids to facilitate understanding of complex procedures.

Types of Manuals Available

- **Factory Service Manual (FSM):** The most detailed, authoritative source directly from Mercedes-Benz.
- **Workshop Manuals (Wiring Diagrams, Repair Guides):** Focused on specific systems or procedures.
- **Digital vs. Print:** Digital PDFs are easily searchable and portable; printed manuals are durable and user-friendly.

Key Sections of the W124 Diesel Repair Manual

Understanding the structure of the manual helps users navigate efficiently. Here are the core sections:

- **Engine and Fuel System**

This section is the heart of the manual, detailing procedures for:

- OM601 and OM602 engine disassembly, repair, and replacement.
- Fuel injection system diagnostics, including Bosch VE and CE injection pumps.
- Turbocharger maintenance (if applicable).
- Cooling system overhaul, including radiator, hoses, and thermostats.
- Combustion chamber cleaning and valve adjustments.

- Transmission and Drivetrain

Coverage includes:

- Manual and automatic transmission servicing.
- Clutch replacement.
- Differential and driveshaft repair.
- Transfer case (for 4WD models).

- Electrical System

Electrical troubleshooting is critical in diesel models due to complex wiring and sensors:

- Wiring diagrams for all major systems.
- Glow plug system diagnosis and replacement.
- Sensor calibration and testing.
- ECU troubleshooting.

- Brake and Suspension

Maintenance and repair procedures:

- Brake pad and rotor replacement.
- Brake fluid bleeding.
- Suspension component replacement, including shocks, struts, and bushings.
- Steering system diagnostics.

- Body and Interior

Though less complex, this section covers:

- Door and window mechanisms.
- Lighting systems.
- Climate control and HVAC repairs.
- Exterior trim and paint touch-ups.

Why the W124 Diesel Repair Manual is Essential

Owning a classic diesel W124 without a detailed repair manual can be challenging, especially considering the complexity of diesel systems compared to gasoline engines. Here's why the manual is indispensable:

- Accurate Diagnostics

The manual provides troubleshooting flowcharts and electrical wiring diagrams that enable accurate diagnosis of issues like rough running, starting problems, or poor fuel economy.

- Precise Repair Procedures

Step-by-step guidance minimizes errors, ensuring repairs are performed correctly the first time, which is crucial for maintaining vehicle integrity.

- Cost-Effective Maintenance

Access to detailed specifications and procedures helps owners perform many repairs themselves, saving labor costs and extending the lifespan of components.

- Preservation of Originality

For collectors or restorers, the manual aids in maintaining the vehicle's authenticity by providing original specifications and restoration procedures.

- Confidence and Safety

Properly following the manual reduces the risk of damage or injury during repairs.

Common Repairs and How the Manual Assists

The W124 diesel models, while durable, can encounter typical issues over time. The repair manual covers these common repairs:

- Glow Plug System Troubleshooting
 - Diagnostic procedures for glow plug failure.
 - Replacement instructions, including socket sizes and torque specifications.
 - Testing glow plug resistance.
- Fuel Injection Pump Servicing
 - Precise timing procedures for Bosch VE and CE pumps.
 - Adjustments for idle and load conditions.
 - Bleeding the fuel system after repairs.
- Turbocharger Maintenance
 - Inspection and cleaning.
 - Replacement procedures.
 - Intercooler system checks.
- Cooling System Overhaul
 - Radiator removal and installation.
 - Thermostat replacement.
 - Hose replacements and coolant flushing.
- Electrical System Repairs

- Glow plug relay diagnosis.
- Wiring harness repairs.
- Sensor testing and replacement.

- Transmission Service

- Fluid change procedures.
- Clutch replacement.
- Gearbox inspection.

Tips for Using the W124 Diesel Repair Manual Effectively

To maximize the benefit of the manual, consider the following tips:

- Familiarize Yourself with the Layout: Before starting repairs, review the table of contents and familiarize yourself with relevant sections.
- Use the Correct Edition: Ensure you have the manual compatible with your specific model year and engine variant.
- Gather Tools and Parts in Advance: Refer to the specifications section to prepare the necessary tools and replacement parts.
- Follow Safety Precautions: Always adhere to safety guidelines outlined in the manual.
- Keep the Manual Accessible: For complex repairs, having the manual open in front of you prevents mistakes.
- Supplement with Community Knowledge: Join online forums and communities dedicated to Mercedes-Benz W124 owners for additional insights.

Where to Find a Mercedes Benz W124 Diesel Repair Manual

Finding a reliable copy of the manual is crucial. Options include:

- Official Mercedes-Benz Shop: Purchasing original factory manuals.
- Online Marketplaces: eBay, Amazon, or specialized automotive manual sites.
- Digital PDF Downloads: Many authorized sources offer downloadable versions.
- Automotive Libraries and Clubs: Mercedes-Benz enthusiast clubs often provide access to manuals.

Always verify the edition and compatibility with your vehicle before purchasing.

Conclusion: An Investment in Longevity and Performance

The Mercedes Benz W124 diesel models are timeless vehicles that reward owners with decades of reliable service when properly maintained. The W124 Diesel Repair Manual stands out as an essential resource, equipping owners and mechanics with the knowledge necessary to perform accurate diagnostics, effective repairs, and routine maintenance.

By investing in a comprehensive manual, you not only preserve the integrity and performance of your vehicle but also deepen your understanding of its sophisticated systems. Whether you're a seasoned mechanic restoring a classic or an enthusiastic owner eager to learn, this manual offers the detailed guidance needed to keep your Mercedes-Benz W124 diesel running smoothly for years to come.

Remember, proper maintenance begins with informed action. Equip yourself with the right manual, follow its instructions diligently, and enjoy the enduring legacy of the Mercedes-Benz W124.

Question Where can I find a comprehensive repair manual for the Mercedes Benz W124 diesel model? You can find detailed repair manuals for the Mercedes Benz W124 diesel on reputable automotive websites, online marketplaces like eBay, or specialized manual providers such as Haynes and Chilton. Additionally, official Mercedes-Benz service manuals may be available through authorized dealerships or online PDF repositories. **What are common issues covered in a Mercedes Benz W124 diesel repair manual?** A typical repair manual covers topics such as engine diagnostics, fuel system repairs, cooling system maintenance, electrical troubleshooting, suspension and brake repairs, and transmission servicing specific to the W124 diesel models. **Is it possible to perform W124 diesel repairs myself using a repair manual?** Yes, with a detailed repair manual, basic mechanical skills, and proper tools, many owners can perform repairs themselves on the W124 diesel. Manuals provide step-by-step instructions, diagrams, and troubleshooting tips to assist DIY enthusiasts. **Are digital versions of the Mercedes Benz W124 diesel repair manual reliable and safe to download?** Digital manuals from reputable sources are generally reliable and safe. Always ensure you download from trusted websites to avoid malware. Official or well-reviewed third-party manuals often contain accurate and detailed information suitable for repairs. **How often should I consult the W124 diesel repair manual for maintenance procedures?** It's advisable to consult the repair manual whenever performing maintenance or repairs, especially for complex tasks like engine overhaul or electrical diagnostics. Regularly referencing the manual helps ensure proper procedures and safety during repairs.

Related keywords: Mercedes Benz W124, diesel engine repair, repair manual, W124 maintenance, diesel engine troubleshooting, W124 service manual, Mercedes Benz repair guide, diesel car repair, W124 diagnostics, Mercedes Benz repair tips

Read the full article online: [Mercedes Benz W124 Diesel Repair Manual](#)

MERCEDES BENZ OM 502 LA ENGINE

Mercedes Benz OM 502 LA engine stands as a testament to Mercedes-Benz's commitment to engineering excellence and innovation in heavy-duty diesel engine technology. Renowned for its robust performance, durability, and efficiency, the OM 502 LA has become a preferred choice among commercial vehicle manufacturers, fleet operators, and industry professionals worldwide. This powerful engine exemplifies Mercedes-Benz's dedication to producing reliable powertrains that can withstand the demanding conditions of heavy-duty applications, including trucks, construction machinery, and industrial equipment. In this comprehensive guide, we will explore the intricacies of the OM 502 LA engine, its technical specifications, applications, advantages, maintenance tips, and its significance in the realm of diesel engine technology.

Overview of the Mercedes Benz OM 502 LA Engine

The Mercedes Benz OM 502 LA engine is a 12.8-liter, six-cylinder, inline diesel engine that belongs to the OM 500 series. It is designed primarily for heavy-duty commercial use, offering a blend of power, fuel efficiency, and reliability. The "LA" in its designation indicates the engine's turbocharged configuration with a charge air cooler, which enhances performance and efficiency.

Key Features of the OM 502 LA

- Displacement: 12,823 cc (12.8 liters)
- Number of Cylinders: 6 inline cylinders
- Turbocharging: Yes, with charge air cooling
- Power Output: Typically ranging from 330 hp to 476 hp, depending on the configuration
- Torque: Up to 2,300 Nm
- Fuel System: Direct injection
- Emission Standards: Compliant with Euro III and Euro IV standards
- Fuel Efficiency: Optimized for economy in heavy-duty operations
- Cooling System: Water-cooled with advanced thermal management

Technical Specifications of the OM 502 LA Engine

The OM 502 LA engine boasts a range of technical features that make it suitable for demanding applications:

Engine Dimensions and Weight

- Length: Variable based on configuration
- Width and Height: Designed for integration into heavy-duty chassis
- Weight: Approximately 1,100 kg (varies by configuration)

Performance Metrics

- Maximum Power: Up to 476 horsepower (depending on tuning)
- Maximum Torque: Up to 2,300 Nm
- RPM Range: 1,000 to 1,800 rpm for optimal performance

Fuel System and Emissions

- Fuel Injection System: Common Rail Direct Injection
- Emission Control: Incorporates catalytic converters and particulate filters for cleaner exhaust gases

Cooling and Lubrication

- Cooling System: High-capacity radiator with thermostatic control
- Lubrication: Heavy-duty oil pump ensuring continuous lubrication under load

Applications of the Mercedes Benz OM 502 LA Engine

The OM 502 LA engine's versatility makes it suitable for various heavy-duty applications:

Commercial Trucks and Buses

- Powering large freight trucks and long-haul buses
- Providing reliable performance for demanding routes

Construction Equipment

- Used in excavators, bulldozers, and cranes

- Ensures steady power delivery in tough terrains

Industrial Machinery

- Employed in generators, pumps, and other industrial applications
- Supports continuous operation in critical environments

Military and Special Vehicles

- Adapted for specialized military transport vehicles
- Known for robustness and durability in harsh conditions

Advantages of the OM 502 LA Engine

The Mercedes Benz OM 502 LA engine offers numerous benefits that have cemented its reputation in the heavy-duty engine market:

- **High Power and Torque:** Ensures excellent load-carrying capacity and performance.
- **Fuel Efficiency:** Optimized combustion process reduces fuel consumption, lowering operational costs.
- **Reliability and Durability:** Built with high-quality materials and engineering standards for long service life.
- **Compliance with Emission Standards:** Meets Euro III/IV standards, aiding in environmental compliance.
- **Ease of Maintenance:** Designed with accessibility in mind, simplifying routine checks and repairs.
- **Versatility:** Suitable for a broad range of heavy-duty applications.

Maintenance and Troubleshooting of OM 502 LA

Proper maintenance is crucial to ensure the longevity and optimal performance of the OM 502 LA engine. Here are essential maintenance tips:

Regular Inspection Schedule

- Check and replace engine oil and filters periodically
- Inspect cooling system components for leaks or corrosion

- Monitor turbocharger performance and cleanliness
- Examine fuel injection system for clogs or leaks

Common Issues and Troubleshooting

- Loss of Power: Could indicate clogged fuel filters or turbocharger problems
- Excessive Smoke: Usually due to injector issues or incomplete combustion
- Overheating: May result from coolant leaks or radiator blockage
- Unusual Noises: Could point to bearing wear or misaligned components

Recommended Maintenance Practices

- Use manufacturer-approved lubricants and fuel
- Follow scheduled maintenance intervals
- Keep detailed logs of inspections and repairs
- Consult authorized Mercedes-Benz service centers for complex issues

Comparing OM 502 LA with Other Engines

Understanding how the OM 502 LA stacks up against other heavy-duty engines can help in making informed decisions:

Advantages Over Older Models

- Improved fuel efficiency
- Lower emissions
- Better thermal management
- Enhanced power output

Comparison with Similar Engines (e.g., MAN, Volvo)

- Mercedes-Benz engines are often praised for their durability and ease of maintenance
- OM 502 LA's fuel economy and emissions compliance are competitive advantages
- Network of authorized service centers simplifies maintenance

The Future of Mercedes Benz OM 502 LA Engine

As the automotive industry shifts towards sustainability and cleaner energy, Mercedes-Benz continues to innovate:

- Integration of hybrid systems to reduce emissions
- Development of more efficient combustion technologies
- Exploration of alternative fuels such as biodiesel or synthetic fuels
- Emphasis on digital diagnostics for predictive maintenance

Despite these advancements, the OM 502 LA remains a critical component of Mercedes-Benz's heavy-duty engine lineup, exemplifying a balance between power, efficiency, and reliability.

Conclusion

The Mercedes Benz OM 502 LA engine stands out as a cornerstone in heavy-duty diesel engine technology. Its impressive power output, fuel efficiency, and robust construction make it the preferred choice for a wide range of demanding applications, from commercial transport to industrial machinery. Proper maintenance and understanding of its technical features ensure that this engine delivers exceptional performance over its lifespan. As Mercedes-Benz continues to innovate, the OM 502 LA remains a symbol of durability and engineering excellence in the realm of heavy-duty diesel engines. Whether for fleet operators seeking reliable performance or manufacturers aiming for efficiency, the OM 502 LA is a proven solution that continues to meet the evolving needs of the industry.

Keywords for SEO Optimization:

Mercedes Benz OM 502 LA engine, heavy-duty diesel engine, Mercedes OM 502 specifications, OM 502 LA applications, Mercedes-Benz engines, diesel engine maintenance, industrial diesel engines, commercial vehicle engine, Euro IV compliant engines, durable heavy-duty engine

Mercedes Benz OM 502 LA Engine: An In-Depth Investigation into a Heavy-Duty Powerhouse

The Mercedes Benz OM 502 LA engine has long been recognized as a cornerstone in heavy-duty diesel engine technology. Renowned for its robust performance, durability, and innovative engineering, the OM 502 LA has powered a wide range of commercial vehicles, including trucks, construction machinery, and industrial equipment. This comprehensive analysis delves into the origins, technical specifications, operational performance, and legacy of this formidable engine, providing a thorough understanding suitable for industry professionals, engineers, and enthusiasts alike.

Introduction to the Mercedes Benz OM 502 LA Engine

The OM 502 LA is part of Mercedes-Benz's OM 500 series, introduced in the late 20th century as a response to increasing demand for reliable, efficient, and high-capacity diesel engines in the commercial vehicle sector. As a 12-liter, inline-six engine, the OM 502 LA epitomizes Mercedes-Benz's commitment to engineering excellence, integrating advanced features to meet stringent emission standards while maintaining superior performance.

Historical Context and Development

Origins and Evolution

Mercedes-Benz's journey into heavy-duty diesel engines began decades before the OM 502 LA's debut. The OM 502 LA was developed during the late 1980s and early 1990s, a period marked by rapid advancements in emission controls and fuel efficiency. It was designed to replace older, less efficient models and to meet evolving European and global emission regulations.

The engine's development was driven by the need for:

- Increased power output
- Improved fuel economy
- Lower emissions
- Enhanced durability for demanding applications

Market Introduction and Adoption

Launched in the early 1990s, the OM 502 LA quickly gained popularity among fleet operators and industrial users due to its reliability and performance. Its adoption spanned across various sectors, notably:

- Long-haul trucking
- Construction and earthmoving machinery
- Industrial generators
- Marine applications

The engine's versatility and robustness made it a preferred choice in demanding environments.

Technical Specifications and Design Features

A detailed understanding of the OM 502 LA's design reveals the engineering choices that contributed to its success.

Engine Configuration and Displacement

- Type: Inline-six (I6)
- Displacement: 12.000 liters (12,000 cc)
- Bore x Stroke: 130 mm x 165 mm
- Compression Ratio: Approximately 16.0:1

Fuel System

- Fuel Injection: Common rail direct injection
- Injection Pressure: Up to 1,600 bar
- Turbocharging: Variable geometry turbocharger (VGT)
- Intercooler: Yes, for charge air cooling

Power and Torque Output

Depending on the specific application and tuning, the OM 502 LA offers:

- Power Range: 310 to 460 horsepower (hp)
- Torque: 1,400 to 2,200 Nm (Newton-meters)

Emission Control Technologies

Aligned with the environmental standards of its era, the engine incorporates:

- Exhaust gas recirculation (EGR)
- Diesel oxidation catalyst (DOC)
- Particulate filters (in later models)
- AdBlue/DEF systems in subsequent variants

Lubrication and Cooling

- Advanced oil circulation systems
- Water-cooled cylinder heads
- Oil coolers and thermostats for temperature regulation

Performance Analysis and Operational Characteristics

Strengths

- **Durability and Longevity:** The OM 502 LA is famed for its rugged build quality, often surpassing 1 million kilometers with proper maintenance.
- **High Power Density:** Offers significant power output for its size, enabling heavy loads and demanding applications.
- **Efficiency:** Thanks to the common rail system and intercooling, it achieves respectable fuel economy relative to its class.
- **Responsiveness:** Turbocharging and fuel injection systems provide responsive acceleration and torque delivery.

Challenges and Limitations

- **Complex Maintenance:** Its advanced systems require specialized knowledge and equipment for repairs.
- **Emission Compliance:** As emission standards tightened, older OM 502 LA engines required upgrades or retrofits to remain compliant.
- **Weight:** The engine's robust construction results in a relatively heavy unit, impacting vehicle payload capacity.

Operational Case Studies

Numerous fleet operators have reported:

- Consistent uptime in long-haul trucking scenarios
- Reduced downtime due to its straightforward design and availability of spare parts
- Successful integration into industrial machinery, demonstrating versatility

Comparison with Contemporary Engines

To contextualize the OM 502 LA's standing, it is useful to compare it with similar engines from rival manufacturers.

Versus Volvo D13 and D16

While Volvo's engines focus on modular design and electronic efficiency, Mercedes-Benz's OM 502

LA emphasizes robustness and raw power. The OM 502 LA often outperforms in heavy-duty applications due to its higher torque capacity.

Versus Cummins ISX Series

Cummins engines are known for their fuel economy and modular architecture; however, the OM 502 LA's proven durability in extreme conditions remains a strong advantage.

Legacy and Modern Relevance

Legacy in Commercial Transportation

The OM 502 LA helped cement Mercedes-Benz's reputation as a leader in heavy-duty diesel technology. Its design principles influenced subsequent engine developments and contributed to the evolution of emission control technologies.

Modern Replacements and Upgrades

Modern engines have incorporated additional emissions reduction features, such as SCR (Selective Catalytic Reduction) and hybrid systems. Nonetheless, the OM 502 LA remains in service in many regions, especially where retrofitting and maintenance flexibility are priorities.

Retrofitting and Sustainability

In recent years, efforts to retrofit older models with emission-reducing systems have extended the operational life of OM 502 LA-powered vehicles, emphasizing the engine's ongoing relevance.

Conclusion: An Engineering Marvel in Heavy-Duty Diesel Power

The Mercedes Benz OM 502 LA engine exemplifies engineering excellence in heavy-duty diesel technology. Its combination of power, durability, and adaptability has made it a mainstay in commercial and industrial applications for decades. While newer engines have introduced advanced emission-reduction technologies and modular designs, the OM 502 LA's legacy persists as a benchmark of robustness and reliability.

In an era increasingly focused on sustainability and technological innovation, understanding engines like the OM 502 LA offers valuable insights into the evolution of diesel engineering and the foundational principles that continue to influence modern heavy-duty powertrain development. For operators, engineers, and enthusiasts, the OM 502 LA remains a testament to Mercedes-Benz's engineering prowess and commitment to delivering power that endures.

Question What are the main features of the Mercedes-Benz OM 502 LA engine? The Mercedes-Benz OM 502 LA engine is a heavy-duty 15.6-liter inline-six diesel engine known for its high torque, durability, and fuel efficiency. It features advanced turbocharging and electronic control systems designed for commercial trucks and heavy machinery. In which types of vehicles is the OM 502 LA engine commonly used? The OM 502 LA engine is commonly used in long-haul trucks, construction equipment, and industrial applications due to its robust performance and reliability in demanding environments. What are the common maintenance issues associated with the OM 502 LA engine? Common maintenance issues include injector fouling, turbocharger wear, and cooling system leaks. Regular oil changes, filter replacements, and proper cooling system maintenance are essential to ensure optimal performance. How does the OM 502 LA engine contribute to fuel efficiency compared to older models? The OM 502 LA incorporates modern turbocharging and electronic control systems that optimize combustion, resulting in improved fuel efficiency and reduced emissions compared to earlier diesel engines. Are there any recent updates or variants of the Mercedes-Benz OM 502 LA engine? Yes, recent variants of the OM 502 LA feature enhancements such as reduced emissions technology, improved power output, and better integration with modern exhaust after-treatment systems to meet stricter environmental standards.

Related keywords: Mercedes Benz OM 502 LA, OM 502 LA specifications, Mercedes OM 502 engine, OM 502 LA turbo, Mercedes Benz heavy-duty engines, OM 502 LA parts, Mercedes Benz OM 502 LA performance, OM 502 LA engine oil, OM 502 LA maintenance, Mercedes OM 502 LA troubleshooting

Read the full article online: [MERCEDES BENZ OM 502 LA ENGINE](#)

Mercedes Om 604 Manual

Mercedes OM 604 Manual: An In-Depth Overview of the Classic Diesel Engine and Transmission System

The Mercedes OM 604 engine, a notable member of Mercedes-Benz's diesel engine family, combined durability, efficiency, and engineering excellence. When paired with a manual transmission, especially the OM 604 manual variant, this powertrain setup has garnered a dedicated following among mechanics, enthusiasts, and commercial vehicle operators. In this comprehensive guide, we will explore the intricacies of the Mercedes OM 604 manual transmission, its technical specifications, maintenance tips, and why it remains a popular choice among users even years after its production.

Understanding the Mercedes OM 604 Engine

The OM 604 engine is part of Mercedes-Benz's inline-four diesel engine series, introduced in the mid-1990s. It was designed to replace older, less efficient diesel engines and provide a modern, reliable, and fuel-efficient alternative.

Key Features of the OM 604 Engine

- Displacement: 2.2 liters (2,148 cc)
- Configuration: Inline-4 turbocharged diesel
- Power Output: Ranges from approximately 82 to 125 horsepower, depending on the model and application
- Torque: Up to 225 Nm (166 lb-ft)
- Fuel System: Common rail direct injection
- Block Material: Aluminum alloy for reduced weight
- Valvetrain: SOHC (Single OverHead Camshaft)
- Cooling System: Water-cooled, with integrated oil cooling

The OM 604 engine was renowned for its robustness and longevity. It was used in various Mercedes models, including the E-Class (W210), C-Class (W202), and commercial vehicles like vans and trucks.

The Mercedes OM 604 Manual Transmission

The combination of the OM 604 engine and a manual gearbox was favored for its control, reliability, and cost-effectiveness. The manual transmission options available with the OM 604 typically included 5-speed gearboxes, designed to match the engine's torque curve and performance characteristics.

Types of Manual Transmissions Used with OM 604

- Getrag 5-Speed Manual Transmission: Most common, known for durability and smooth shifting
- ZF 5-Speed Manual Transmission: Also used in certain models, appreciated for its robustness
- Clutch System: Hydraulic or cable-operated, depending on the model and year

Technical Specifications of the OM 604 Manual Transmission

Understanding the specifications of the OM 604 manual gearbox is essential for maintenance, repairs, or upgrades.

Gear Ratios

| Gear | Ratio |

|-----|-----|

| 1st | 3.83 |

| 2nd | 2.20 |

| 3rd | 1.36 |

| 4th | 1.00 |

| 5th | 0.81 |

The gear ratios are optimized for fuel efficiency and engine performance, providing smooth acceleration and decent top speeds.

Clutch and PTO Compatibility

- The clutch used in OM 604 manual setups is typically a heavy-duty disc designed to handle torque loads.
- Some commercial variants may include PTO (Power Take-Off) provisions for auxiliary equipment.

Performance and Driving Experience

The OM 604 with a manual transmission offers a distinctive driving experience characterized by:

- Better Control: Manual gear shifting allows drivers to manage engine power precisely, especially useful in challenging terrains.
- Fuel Efficiency: Proper use of the manual gearbox can maximize fuel economy.
- Reliability: Known for long-term durability, especially when properly maintained.
- Low Maintenance Costs: Simpler mechanical components compared to automatic transmissions reduce repair expenses.

Maintenance and Troubleshooting Tips for OM 604 Manual Transmission

Maintaining the OM 604 manual gearbox ensures longevity and optimal performance. Here are

some practical tips:

Regular Oil Changes

- Use the manufacturer-recommended gear oil, typically 75W-90 GL-4 or GL-5
- Change the transmission oil every 60,000 to 80,000 km or as advised

Clutch Inspection and Replacement

- Signs of slipping or difficulty shifting indicate clutch wear
- Replace the clutch disc, pressure plate, and throw-out bearing when needed

Clutch Pedal and Linkage Maintenance

- Check for proper pedal engagement and free play
- Lubricate linkage components regularly

Shift Linkage Adjustment

- Proper adjustment prevents gear grinding and ensures smooth shifts
- Refer to vehicle-specific service manuals for precise procedures

Common Troubleshooting

- Grinding Gears: May indicate worn synchros or misadjusted linkage
- Difficulty Shifting: Could be due to low transmission oil or clutch issues
- Noisy Operation: Bearing or gear wear may be the cause; inspect and replace as needed

Upgrading and Modifying the OM 604 Manual Transmission

Many enthusiasts seek to enhance the performance or reliability of their OM 604-powered vehicles.

Possible Upgrades

- Performance Clutch Kits: For improved torque handling

- Heavy-Duty Gear Oil: To reduce wear under high-stress conditions
- Short-Throw Shifters: For quicker and more precise gear changes
- Synchronization Improvements: Upgrading synchros for smoother shifts

Engine and Transmission Compatibility

- Ensure compatible mounts and linkage adjustments when swapping or upgrading components
- Consult technical manuals or experienced mechanics for specific modifications

Why the Mercedes OM 604 Manual Continues to Be Popular

Despite being several decades old, the OM 604 manual engine and transmission combination remains relevant for several reasons:

- Durability: Proven to last hundreds of thousands of kilometers with proper maintenance
- Cost-Effectiveness: Manual transmission repairs and replacements are generally cheaper than automatics
- Driver Engagement: Manual gearboxes offer an engaging driving experience
- Ease of Maintenance: Mechanical simplicity makes repairs accessible for skilled technicians
- Wide Availability of Parts: Many components are still available through aftermarket suppliers and salvage yards

Conclusion

The Mercedes OM 604 manual transmission system exemplifies the engineering quality and dependability that Mercedes-Benz is known for. Whether used in commercial vehicles, personal cars, or enthusiast projects, the OM 604 manual setup offers a reliable, fuel-efficient, and engaging driving experience. Proper maintenance, timely repairs, and understanding of its technical aspects can keep this classic powertrain running smoothly for many more years.

If you own or are considering acquiring a vehicle with an OM 604 engine paired with a manual transmission, investing in routine maintenance and understanding its mechanics can ensure optimal performance and longevity. As a testament to Mercedes-Benz's engineering, the OM 604 manual remains a beloved choice for diesel enthusiasts worldwide.

Keywords: Mercedes OM 604 manual, OM 604 engine, OM 604 transmission, Mercedes-Benz diesel engine, 5-speed manual gearbox, OM 604 maintenance, Mercedes OM 604 troubleshooting, diesel engine upgrades

Mercedes OM 604 Manual: An In-Depth Review and Analysis

The Mercedes OM 604 engine, particularly in its manual transmission configuration, stands as a testament to Mercedes-Benz's engineering prowess during the late 20th century. Known for its durability, efficiency, and engineering sophistication, the OM 604 has earned a reputation among enthusiasts, mechanics, and automotive historians alike. This article provides a comprehensive exploration of the OM 604 manual, delving into its technical specifications, design philosophy, performance characteristics, common issues, maintenance considerations, and the overall impact on Mercedes-Benz's diesel engine lineup.

Introduction to the Mercedes OM 604 Engine

The OM 604 engine was part of Mercedes-Benz's inline-four diesel engine family, produced from the early 1990s to the early 2000s. It was designed to replace earlier, less efficient engines and aimed to meet stricter emissions standards while maintaining the brand's hallmark durability and performance. The "OM" prefix indicates it is a diesel engine ("Oel-Motor" in German), and the 604 model number designates its place within Mercedes' engine lineup.

The OM 604 was predominantly available with a manual transmission option, often paired with the 5-speed manual gearbox, making it a favorite among driving enthusiasts and those seeking greater control over their vehicle's performance. Its design reflected a balance between technological innovation and practical reliability, which contributed to its longevity and widespread use across various Mercedes models like the W202 C-Class, W124 E-Class, and others.

Technical Specifications of the OM 604 Manual

Understanding the technical details of the OM 604 in its manual configuration is crucial for appreciating its engineering capabilities.

Engine Layout and Displacement

- Type: Inline-4, turbocharged diesel engine
- Displacement: 2.2 liters (2148 cc)
- Configuration: Water-cooled, with a cast iron block and aluminum cylinder head

Performance Metrics

- Power Output: Typically around 90 to 102 horsepower (varies by model and market)
- Torque: Ranges from approximately 177 to 210 lb-ft

- Fuel System: Bosch indirect injection with mechanical fuel injection pump
- Compression Ratio: About 21:1, optimized for diesel combustion efficiency

Transmission Compatibility

- Manual Transmission: 5-speed manual gearbox, often the Mercedes G56 or similar
- Drive Type: Rear-wheel drive (RWD)

Additional Features

- Intercooler: Often equipped to improve charge air cooling
- Emission Control: Equipped with EGR (Exhaust Gas Recirculation) to meet emissions standards
- Lubrication and Cooling: Designed for long service intervals with robust oil and coolant systems

Design and Engineering Philosophy

The OM 604 was conceived with a focus on longevity, fuel economy, and ease of maintenance. Mercedes-Benz prioritized a design that could withstand the rigors of daily driving while complying with evolving environmental regulations.

Material Choices and Build Quality

- Block and Head: Cast iron block for durability; aluminum head for weight reduction
- Components: Use of high-quality components to reduce wear and facilitate maintenance

Innovative Features

- Turbocharging: The inclusion of a turbocharger significantly enhanced power and torque without increasing engine size, aligning with Mercedes' trend toward downsizing while maintaining performance.
- Mechanical Fuel Injection: Chosen for its robustness and ease of repair, especially important in markets with limited access to sophisticated electronic systems.

Emphasis on Reliability

- The engine's design minimized complex electronics, favoring mechanical systems that could be

easily serviced and repaired, a key factor in its popularity in markets with less stringent service infrastructure.

Performance Analysis of the Mercedes OM 604 with Manual Transmission

The manual configuration of the OM 604 offers a different driving experience compared to its automatic counterparts.

Driving Dynamics

- The manual gearbox allows for greater driver control, especially useful for towing or driving in challenging conditions.
- The engine's torque curve provides robust low-end torque, making acceleration smooth and responsive.
- The relatively lightweight engine, combined with RWD, contributes to agile handling and balanced weight distribution.

Fuel Economy

- The OM 604 manual is known for respectable fuel economy, often outperforming automatic versions due to more precise control over gear changes.
- Typical consumption figures hover around 40-50 mpg (miles per gallon) depending on driving conditions and vehicle modifications.

Reliability and Durability

- With proper maintenance, the OM 604 manual engines have demonstrated remarkable longevity, often surpassing 300,000 miles.
- The mechanical injection pump and turbocharger, when maintained, can operate reliably for hundreds of thousands of miles.

Common Issues and Maintenance Considerations

Despite its reputation for robustness, the OM 604 manual engine is not without its quirks and potential issues.

Typical Problems

- Fuel Injection Pump Wear: Mechanical pumps can suffer from wear over time, leading to decreased performance and starting issues.
- Turbocharger Wear: The turbine wheel and bearings may degrade, especially if oil changes are neglected.
- Head Gasket Failures: Due to high compression ratios and thermal stresses, head gasket leaks can occur.
- EGR Valve Clogging: Carbon buildup can impair EGR operation, affecting emissions and engine performance.
- Oil Leaks: Valve cover gaskets and turbo oil seals are common sources of leaks.

Maintenance Tips

- Regular oil and filter changes (every 5,000 to 10,000 miles)
- Periodic inspection and cleaning of the EGR valve
- Monitoring and replacing the fuel injection pump components as needed
- Ensuring proper cooling system function to prevent overheating
- Using high-quality diesel fuel to minimize carbon buildup

Upgrades and Modifications

- Upgrading the intercooler for better charge cooling
- Replacing the mechanical pump with electronic alternatives (where feasible)
- Improving exhaust systems to reduce backpressure and enhance performance

Historical Impact and Legacy of the OM 604 Manual

The OM 604 has left an indelible mark on Mercedes-Benz's diesel engine history. Its manual variant exemplifies the brand's commitment to driver engagement and mechanical simplicity. During its production run, the engine was praised for its balance of power, efficiency, and reliability, making it a popular choice in both personal vehicles and commercial applications.

Influence on Mercedes-Benz Lineup

- The OM 604's success influenced subsequent engine designs, emphasizing modularity, ease of maintenance, and durability.
- Its manual transmission option appealed to enthusiasts and fleet operators seeking more control and lower maintenance costs.

Collector and Enthusiast Interest

- Today, well-maintained OM 604-powered vehicles with manual transmissions are highly sought after by collectors and enthusiasts.
- Their reputation for robustness makes them suitable for conversion projects or as reliable daily drivers.

Conclusion: The Enduring Appeal of the Mercedes OM 604 Manual

The Mercedes OM 604 engine, particularly in its manual transmission form, exemplifies a period where engineering focus balanced performance with reliability. Its mechanical injection system, turbocharged design, and straightforward construction have cemented its status as a durable, efficient, and driver-friendly diesel engine. While it requires diligent maintenance and occasional repairs, the OM 604's longevity and performance capabilities continue to endear it to automotive enthusiasts, mechanics, and owners worldwide.

As the automotive industry moves toward electrification and more complex electronic systems, the OM 604 remains a shining example of diesel engineering from an era where mechanical mastery defined excellence. For those seeking a robust, control-oriented driving experience coupled with Mercedes-Benz's renowned build quality, the OM 604 manual engine remains a compelling choice—timeless in its design and enduring in its performance.

Question What are the key specifications of the Mercedes OM 604 engine? The Mercedes OM 604 is a 2.2-liter four-cylinder diesel engine known for its reliability and efficiency. It features a turbocharger, direct injection, and is commonly used in models like the Mercedes-Benz Sprinter. The manual transmission options typically include a 5-speed gearbox designed to optimize performance and fuel economy. **Answer** Where can I find a manual for the Mercedes OM 604 engine? The official Mercedes-Benz workshop manuals for the OM 604 engine can often be found through authorized dealerships, automotive repair shops, or online platforms specializing in Mercedes-Benz service literature. Additionally, online forums and communities dedicated to Mercedes diesel engines may have user-shared manuals and maintenance guides. What common issues are associated with the Mercedes OM 604 engine? Common issues with the OM 604 include problems with the fuel injection system, turbocharger wear, and head gasket failures. Regular maintenance, proper oil changes, and timely repairs can help extend the engine's lifespan and prevent major issues. How do I perform a manual transmission clutch replacement on a Mercedes OM 604? Clutch replacement on the OM 604 involves raising the vehicle, removing the transmission, disconnecting the clutch assembly, and installing a new clutch kit. It requires specialized tools and mechanical expertise. Consulting a detailed repair manual or professional mechanic is recommended for accurate procedures and safety. Is the Mercedes OM 604 suitable for engine swaps or modifications? While the OM 604 is a robust engine, modifications or engine swaps should be

approached with caution. Compatibility with your vehicle's chassis and transmission system is crucial. Many enthusiasts upgrade components like the turbo or injectors for better performance, but extensive modifications may require custom mounts and ECU tuning. What are the benefits of using a manual transmission with the OM 604 engine? Using a manual transmission with the OM 604 offers better control over engine power, improved fuel efficiency, and potentially longer-lasting drivetrain components. It also provides a more engaging driving experience and is preferred for certain applications like commercial vehicles or off-road use.

Related keywords: Mercedes OM 604 manual, OM 604 engine manual, OM 604 diesel manual, Mercedes OM 604 repair manual, OM 604 specs, OM 604 torque chart, Mercedes OM 604 parts manual, OM 604 troubleshooting, OM 604 service manual, Mercedes OM 604 tuning

Read the full article online: [Mercedes om 604 manual](#)

Mercedes om 360

mercedes om 360 is a renowned diesel engine model that has garnered widespread recognition for its durability, performance, and efficiency. Manufactured by Mercedes-Benz, the OM 360 engine has become a staple in various commercial and industrial applications, ranging from trucks and buses to agricultural machinery. Its robust design, coupled with advanced engineering, makes it a preferred choice for those seeking reliable power sources in demanding environments. In this comprehensive guide, we will explore the history, specifications, applications, maintenance tips, and why the Mercedes OM 360 remains a top contender in its class.

Introduction to the Mercedes OM 360 Engine

The Mercedes OM 360 is part of the OM series of diesel engines produced by Mercedes-Benz. Known for their durability and performance, these engines have been widely used across different sectors. The OM 360 model, in particular, is appreciated for its balance of power and fuel efficiency, making it suitable for medium-duty applications.

History and Development of the OM 360

The development of the Mercedes OM 360 engine dates back to the late 20th century, during a period when Mercedes-Benz aimed to enhance its commercial engine lineup. The OM 360 was designed to replace earlier models with improved technological features, higher power output, and better emissions standards. Over the years, it has undergone several updates to meet evolving industry requirements while maintaining its core characteristics of reliability and efficiency.

Technical Specifications of Mercedes OM 360

Understanding the technical details of the OM 360 engine is crucial for users, mechanics, and enthusiasts. Here are the key specifications:

Engine Type and Configuration

- Type: Four-stroke, turbocharged, direct injection diesel engine
- Configuration: Inline 6-cylinder
- Displacement: Approximately 7.5 liters (7500 cc)

Performance Metrics

- Maximum Power: Around 130-150 horsepower, depending on the version
- Maximum Torque: Approximately 400-500 Nm
- Compression Ratio: 17:1

Fuel System and Emissions

- Fuel System: Direct fuel injection
- Turbocharging: Yes, with intercooling for enhanced performance
- Emissions Standards: Compliant with Euro II or Euro III standards, depending on the manufacturing year

Additional Features

- Robust cast iron block for longevity
- Heavy-duty pistons and connecting rods
- Mechanical or electronic fuel injection options
- Cooling system designed for high-performance operation

Applications of Mercedes OM 360

The versatility of the OM 360 engine has led to its widespread use across various industries. Below are some of the primary applications:

Commercial Vehicles

- Medium-duty trucks
- Delivery vans
- Buses and coach chassis

Industrial Equipment

- Construction machinery
- Agricultural equipment
- Generator sets

Military and Special Vehicles

- Armored vehicles
- Specialized transport units

Advantages of the Mercedes OM 360 Engine

Several features make the OM 360 engine stand out among its competitors:

- **Durability:** Built with high-quality materials, the engine offers long service life with proper maintenance.
- **Fuel Efficiency:** Optimized combustion processes reduce fuel consumption, lowering operational costs.
- **Performance Reliability:** Consistent power delivery under heavy loads and challenging conditions.
- **Ease of Maintenance:** Widely available spare parts and straightforward design facilitate repairs and servicing.
- **Versatility:** Suitable for a broad spectrum of applications from transport to industrial machinery.

Maintenance and Troubleshooting

Proper maintenance is vital to maximize the lifespan and performance of the Mercedes OM 360 engine. Here are essential tips and common troubleshooting points:

Routine Maintenance Tips

- Regular oil changes using recommended diesel engine oils

- Replacing filters (air, fuel, oil) at specified intervals
- Checking and maintaining coolant levels for optimal engine temperature
- Inspecting belts and hoses for wear and tear
- Ensuring proper turbocharger operation and cleanliness

Common Issues and Solutions

- **Engine Overheating:** Check coolant levels and radiator condition; ensure the cooling fan operates correctly.
- **Loss of Power:** Inspect fuel injection system and filters; consider turbocharger performance.
- **Excessive Smoke:** Usually indicates fouled injectors or issues with combustion; require professional diagnosis.
- **Unusual Noises:** Could be caused by worn bearings or misaligned components; immediate inspection recommended.

Comparison with Other Engines in the Same Class

The OM 360 engine often competes with other medium-duty diesel engines such as Isuzu 6HK1, Cummins ISB6.7, and Volvo D7. Here's how it compares:

Mercedes OM 360 vs. Isuzu 6HK1

- Power Output: OM 360 offers slightly higher torque in some versions.
- Fuel Efficiency: Similar, with slight variations based on application.
- Maintenance: Mercedes engines benefit from extensive service networks.

Mercedes OM 360 vs. Cummins ISB6.7

- Durability: Both engines are known for longevity, though Cummins may offer more advanced electronic controls.
- Cost: OM 360 generally has a lower initial cost, with maintenance being straightforward.

Buying Tips for Mercedes OM 360 Engines

When considering purchasing a used or new Mercedes OM 360 engine, keep these points in mind:

- Verify the engine's maintenance history and service records.

- Inspect for signs of wear, corrosion, or oil leaks.
- Ensure compatibility with your vehicle or equipment specifications.
- Consult authorized Mercedes-Benz dealers or certified mechanics for proper assessment.
- Consider the availability of spare parts and technical support in your region.

Conclusion: Why the Mercedes OM 360 Remains a Top Choice

The Mercedes OM 360 engine continues to be a preferred choice for many due to its proven track record of reliability, solid performance, and ease of maintenance. Whether used in commercial trucks, industrial machinery, or specialized vehicles, this engine embodies the qualities that define Mercedes-Benz's engineering excellence. Its balance of power, durability, and efficiency ensures that it remains relevant in the modern landscape of diesel engines, making it a valuable investment for businesses and operators seeking robust power solutions.

Final Thoughts

Investing in a Mercedes OM 360 engine means choosing a dependable power source built to withstand demanding conditions. Proper maintenance and timely repairs can extend its operational life, offering excellent value over the years. As industries evolve and standards become more stringent, the OM 360 continues to adapt, providing a reliable backbone for various applications worldwide.

If you're considering a diesel engine for your vehicle or machinery, the Mercedes OM 360 remains an exemplary model worth exploring. Its legacy of durability and performance cements its position as a top-tier engine in the medium-duty diesel segment.

Mercedes OM 360: An In-Depth Analysis of the Powerhouse Diesel Engine

The Mercedes OM 360 is a renowned diesel engine that has earned its reputation for durability, efficiency, and robust performance. Widely used in commercial vehicles, construction machinery, and industrial applications, the OM 360 exemplifies Mercedes-Benz's engineering excellence. Whether you're a mechanic, a fleet manager, or an enthusiast interested in heavy-duty engines, understanding the intricacies of the OM 360 is essential for appreciating its role in powering robust vehicles and equipment.

Introduction to the Mercedes OM 360

The Mercedes OM 360 engine is part of the OM series, which has been a cornerstone of Mercedes-Benz's diesel engine lineup for decades. Known for its reliability and longevity, the OM 360 is a 6-cylinder, inline diesel engine that has been deployed in various trucks, buses, and industrial machines.

Key Highlights:

- Engine Type: Inline 6-cylinder diesel
- Displacement: Approximately 7.2 liters (7200 cc)
- Power Output: Ranges from 130 to 170 horsepower, depending on configuration
- Torque: Up to 500 Nm (Newton-meters)
- Application: Commercial trucks, construction machinery, agricultural equipment
- Production Period: Mid-1980s to early 2000s

Technical Specifications of the Mercedes OM 360

Understanding the technical specifications of the OM 360 provides insight into its performance capabilities and maintenance requirements.

Engine Design and Components

- Cylinder Configuration: Inline 6 cylinders
- Material: Cast iron block and cylinder head
- Valvetrain: Overhead valve (OHV), with mechanical fuel injection
- Compression Ratio: Typically around 17:1
- Fuel System: Mechanical or electronic fuel injection, depending on the model

Power and Performance

- Horsepower: 130-170 HP
- Maximum Torque: Up to 500 Nm
- RPM Range: Max power usually achieved at 2200-2400 RPM
- Fuel Consumption: Approximately 20-25 liters per 100 km, varying with load and application

Cooling and Lubrication

- Cooling System: Water-cooled with a radiator
- Lubrication: Forced oil circulation with oil filter system
- Oil Capacity: Around 15 liters

Applications and Use Cases

The Mercedes OM 360 has been a staple in various industries owing to its robust design.

Commercial Vehicles

- Trucks: Used in models like the Mercedes-Benz Axor and other heavy-duty trucks.
- Buses: Powering city buses and long-distance coaches.
- Vans: In some heavier-duty van variants.

Industrial and Construction Machinery

- Forklifts: Powering industrial forklifts.
- Crane and Excavator Engines: Used in some construction machinery for its reliability.
- Agricultural Equipment: Mounted on tractors and harvesters.

Marine and Specialty Applications

- Some variants have been adapted for small marine vessels or stationary generator sets.

Maintenance and Common Issues

Proper maintenance of the OM 360 is vital to ensure longevity and optimal performance.

Routine Maintenance

- Oil Changes: Every 10,000 to 15,000 km or annually.
- Fuel Filter Replacement: Every 20,000 km.
- Cooling System Checks: Regular inspection of radiator, hoses, and coolant levels.
- Valve Adjustments: As per manufacturer's schedule to maintain engine efficiency.

Common Problems and Troubleshooting

- Fuel Injection Issues: Clogged injectors can lead to poor performance or starting problems.
- Cooling System Leaks: Over time, gaskets and hoses may degrade, causing overheating.
- Turbocharger Wear: In turbo-equipped variants, turbine blades may wear out, reducing power.
- Oil Leaks: Gasket failures or seal deterioration can lead to oil leaks.

Tips for Longevity

- Use high-quality diesel fuel and additives.
- Follow scheduled maintenance routines meticulously.
- Address minor issues promptly before they escalate.
- Keep the cooling and lubrication systems clean and functional.

Performance Analysis and Driving Experience

The OM 360 is celebrated for its torque-rich performance, enabling heavy loads and challenging terrains to be handled with ease.

- Acceleration: Sufficient torque ensures smooth acceleration under load.
- Fuel Efficiency: While not as frugal as modern engines, it offers reasonable consumption considering its size and power.
- Durability: Engines can last well beyond 1 million kilometers with proper care.
- Sound and Vibration: Typically produces a deep, resonant sound characteristic of inline diesel engines, with manageable vibration levels.

Upgrades and Modifications

Enthusiasts and operators have explored various modifications to enhance performance or adapt the OM 360 for specific needs.

Common Upgrades

- Turbocharging: Some variants have been retrofitted with turbochargers for increased power.
- Electronic Fuel Injection: Upgrading from mechanical systems for better fuel economy and emissions.
- Aftermarket Intercoolers: To improve intake air density and boost power.

Considerations

- Always consult with certified mechanics before modifications.
- Ensure compatibility with existing engine components.
- Be mindful of emissions regulations and legal compliance.

The Legacy of the Mercedes OM 360

Despite being an older engine design, the OM 360 remains a favorite among fleet operators and mechanics for its proven reliability and straightforward maintenance. Its simplicity allows for easier repairs and parts availability, making it a cost-effective choice for heavy-duty applications.

Why the OM 360 Endures:

- Long service life with proper maintenance
- Wide availability of spare parts
- Proven track record in demanding environments
- Compatibility with various Mercedes-Benz models and applications

Conclusion

The Mercedes OM 360 stands as a testament to Mercedes-Benz's commitment to building durable, reliable diesel engines for demanding industrial and commercial use. Its robust design, balanced performance, and ease of maintenance have cemented its place in the world of heavy-duty machinery and vehicles. Whether you're restoring an old truck, maintaining a fleet, or simply exploring diesel engine technology, the OM 360 offers valuable insights into Mercedes-Benz's engineering prowess and the enduring appeal of classic diesel powerplants.

Additional Resources:

- Maintenance manuals and parts catalogs (available through authorized dealers)
- Online forums and communities dedicated to Mercedes diesel engines
- Professional service providers specializing in Mercedes-Benz industrial engines

By understanding the specifications, applications, and maintenance practices of the Mercedes OM 360, operators and enthusiasts can ensure their engines run smoothly for many years to come.

Question What is the Mercedes OM 360 engine and what are its main specifications? The Mercedes OM 360 is a diesel engine commonly used in commercial trucks and buses. It features a 6-cylinder, inline configuration with a displacement of 7.2 liters, producing around 210-240 horsepower. Known for its durability and fuel efficiency, it is often praised for its reliability in heavy-duty applications. **What are common issues faced by Mercedes OM 360 engine users?** Common issues include injector problems, turbocharger wear, oil leaks, and cooling system failures. Regular maintenance and timely repairs can help mitigate these problems and extend the engine's lifespan. **How does the Mercedes OM 360 compare to newer engine models?** The OM 360 is valued

for its robustness and simplicity, but newer engines offer improved fuel efficiency, lower emissions, and advanced electronic controls. However, the OM 360 remains popular in certain markets due to its proven durability and ease of maintenance. Is the Mercedes OM 360 suitable for retrofit or upgrade projects? While the OM 360 can be used in retrofit projects, modifications are required to ensure compatibility with modern systems. Consulting with specialized mechanics is recommended to optimize performance and compliance with emission standards. Where can I find spare parts and service for Mercedes OM 360 engines? Spare parts for the Mercedes OM 360 are available through authorized Mercedes-Benz service centers, specialized diesel engine parts suppliers, and online marketplaces. Regular servicing by qualified technicians is essential for maintaining engine performance.

Related keywords: Mercedes OM 360, OM 360 engine, Mercedes diesel engine, OM 360 specifications, Mercedes OM 360 parts, OM 360 turbo, Mercedes OM 360 repair, OM 360 horsepower, Mercedes OM 360 maintenance, OM 360 performance

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