

nissan gtr r35 service manual

Nissan GTR R35 service manual is an essential resource for any owner or enthusiast of this iconic supercar. The Nissan GT-R R35 has made waves since its debut in 2007, earning a reputation for its performance, technology, and engineering excellence. To maintain its peak performance and reliability, a comprehensive understanding of its service requirements is crucial. This article dives into the various aspects of the Nissan GTR R35 service manual, including routine maintenance, troubleshooting, and essential upgrades that can enhance the vehicle's capabilities.

Understanding the Nissan GTR R35

The Nissan GT-R R35 is not just a car; it is an engineering marvel. Developed by Nissan's performance division, Nismo, the GT-R combines advanced technology with a powerful twin-turbocharged V6 engine. Its sophisticated all-wheel-drive system, known as ATTESA E-TS, and the multi-link suspension ensure that it can conquer both the racetrack and everyday roads.

Key Features of the Nissan GTR R35

1. Engine and Performance:

- 3.8L V6 twin-turbo engine producing over 550 horsepower.
- 0-60 mph in approximately 3.0 seconds.
- Top speed of around 196 mph.

2. Transmission:

- 6-speed dual-clutch automatic transmission (DCT) providing seamless gear shifts.
- Adaptive transmission logic for improved performance in various conditions.

3. All-Wheel Drive:

- ATTESA E-TS all-wheel-drive system that optimizes torque distribution for enhanced handling.

4. Aerodynamics:

- Active front and rear aerodynamics for improved downforce and stability at high speeds.

5. Technology:

- Advanced infotainment system with navigation, Bluetooth connectivity, and performance monitoring.

The Importance of the Service Manual

The Nissan GTR R35 service manual serves multiple purposes for owners and technicians alike. It provides detailed instructions on maintenance and repair procedures, ensuring that the vehicle remains in peak condition. This manual is invaluable for both routine maintenance and complex repairs, helping to avoid costly mistakes and ensuring that the car performs at its best.

Key Sections of the Service Manual

1. Maintenance Schedule:

- This section outlines the recommended service intervals for various components, including oil changes, fluid checks, and inspections.

2. Repair Procedures:

- Step-by-step guides on how to perform repairs and replacements on critical components, from the engine to the electrical systems.

3. Troubleshooting:

- Detailed diagnostic information for common issues, along with potential solutions.

4. Electrical System:

- Information on wiring diagrams, component locations, and troubleshooting electrical faults.

5. Specifications:

- Technical specifications for parts, including torque settings, fluid capacities, and recommended lubricants.

Routine Maintenance Tasks

Regular maintenance is vital to ensure that the GT-R R35 remains reliable and performs optimally.

Here are some of the most critical routine maintenance tasks outlined in the service manual:

1. Oil Change

- Frequency: Every 3,000 to 5,000 miles or as recommended based on driving conditions.
- Steps:
 - Gather necessary tools: oil filter wrench, socket set, and a drain pan.
 - Lift the car and secure it on jack stands.
 - Remove the oil drain plug and allow old oil to drain completely.
 - Replace the oil filter using the oil filter wrench.
 - Reinstall the drain plug and fill the engine with fresh oil.

2. Brake Inspection

- Frequency: Every 6,000 miles or if any braking issues are felt.
- Steps:
 - Inspect brake pads for wear; replace if they are below the minimum thickness.
 - Check brake fluid levels and quality.
 - Inspect brake rotors for damage or warping.

3. Tire Maintenance

- Frequency: Rotate tires every 5,000 miles and check pressure monthly.
- Steps:
 - Use a tire pressure gauge to check air pressure and adjust as needed.
 - Rotate tires according to the recommended pattern in the service manual.

Troubleshooting Common Issues

Despite its superior engineering, the GT-R R35 may encounter issues over time. The service manual provides troubleshooting guidance for common problems.

1. Engine Performance Issues

- Symptoms: Loss of power, rough idling, increased fuel consumption.
- Possible Causes:
 - Clogged fuel filter.
 - Faulty spark plugs or ignition coils.
 - Air intake leaks.

2. Transmission Problems

- Symptoms: Slipping gears, delayed shifts, warning lights.
- Possible Causes:
 - Low transmission fluid levels.
 - Faulty transmission control module (TCM).
 - Worn clutch plates.

3. Electrical System Failures

- Symptoms: Dashboard warning lights, malfunctioning electronic systems.
- Possible Causes:
 - Dead battery or corroded connections.
 - Faulty alternator.
 - Blown fuses.

Upgrades and Modifications

Many GT-R R35 owners seek to enhance their vehicle's performance through upgrades. The service manual may provide information on removing and replacing components for enthusiasts looking to install aftermarket parts.

1. Exhaust Systems

- Upgrading to a high-performance exhaust system can improve airflow and engine efficiency, resulting in increased horsepower.

2. ECU Tuning

- Reprogramming the engine control unit (ECU) can enhance performance characteristics, improving throttle response and power output.

3. Suspension Upgrades

- Installing adjustable coilovers can provide better handling and ride quality, allowing for customization based on driving preferences.

Conclusion

The Nissan GT-R R35 service manual is an indispensable tool for anyone who owns or works on this phenomenal vehicle. From routine maintenance to troubleshooting and performance upgrades, the manual covers everything necessary to keep the GT-R performing at its best. Understanding how to properly care for and maintain this supercar not only enhances its longevity but also improves the driving experience. Whether you are a seasoned mechanic or a passionate car owner, having a thorough knowledge of the service manual can ensure that your Nissan GT-R R35 remains a thrilling and reliable ride for years to come.

Frequently Asked Questions

What is included in the Nissan GT-R R35 service manual?

The Nissan GT-R R35 service manual includes detailed information on maintenance schedules, troubleshooting guides, electrical diagrams, and specifications for various components of the vehicle.

Where can I find a digital copy of the Nissan GT-R R35 service manual?

A digital copy of the Nissan GT-R R35 service manual can be found on Nissan's official website or through authorized service centers. Additionally, automotive forums and online marketplaces may offer downloadable versions.

How often should I refer to the Nissan GT-R R35 service manual?

You should refer to the Nissan GT-R R35 service manual whenever you're performing maintenance, troubleshooting issues, or making modifications to ensure you're following the manufacturer's guidelines.

Is the Nissan GT-R R35 service manual suitable for DIY maintenance?

Yes, the Nissan GT-R R35 service manual is designed to assist DIY enthusiasts by providing step-by-step instructions for various maintenance tasks, along with the necessary specifications and tools.

Can I use the Nissan GT-R R35 service manual for performance upgrades?

While the primary focus of the Nissan GT-R R35 service manual is maintenance and repairs, it can also provide valuable information on performance specifications and recommended practices for upgrades.

Are there any specific tools recommended in the Nissan GT-R R35 service manual?

Yes, the Nissan GT-R R35 service manual lists specific tools required for various maintenance tasks, including specialized tools for engine work and suspension adjustments.

How do I obtain a physical copy of the Nissan GT-R R35 service manual?

You can obtain a physical copy of the Nissan GT-R R35 service manual by purchasing it from a Nissan dealership, online retailers, or through automotive literature suppliers.

Are there any common issues addressed in the Nissan GT-R R35 service manual?

Yes, the Nissan GT-R R35 service manual addresses common issues such as transmission problems, electrical system faults, and maintenance tips to prevent premature wear on key components.

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