Nissan Primera P11 144 Service Repair 99 02

nissan primera p11 144 service repair 99 02 is a popular topic among car enthusiasts and owners who seek reliable maintenance and repair guidance for their Nissan Primera P11 model produced between 1999 and 2002. This comprehensive guide aims to provide detailed information on servicing, common issues, repair procedures, and maintenance tips specific to the Nissan Primera P11 144, ensuring your vehicle remains in optimal condition for years to come.

Introduction to Nissan Primera P11 144 (1999-2002)

The Nissan Primera P11, particularly the 144 model, is renowned for its durability, comfort, and versatile performance. Manufactured between 1999 and 2002, this model features a range of engine options, including 1.6L, 1.8L, and 2.0L variants, making it

suitable for various driving needs. Proper service and maintenance are critical to preserving its longevity and performance.

Understanding the Basic Maintenance Schedule

Regular maintenance is the cornerstone of a healthy Nissan Primera P11 144. Following the manufacturer's recommended service intervals can prevent costly repairs and ensure safety.

Key Maintenance Tasks

1. Oil and Filter Changes: Every 5,000 to 7,500 miles or every 6 months
2. Timing Belt Inspection/Replacement: Every 60,000 to 100,000 miles
3. Brake System Check: Every 10,000 miles
4. Coolant Replacement: Every 2 years
5. Spark Plug Replacement: Every 30,000 to 60,000 miles
6. Suspension and Steering Checks: Annually or with every major service

Common Service and Repair Procedures for Nissan Primera P11 144

This section covers essential repair and servicing procedures tailored for the Nissan Primera P11 144, focusing on routine maintenance and common issues encountered by owners.

Engine Oil and Filter Replacement

Regular oil changes are vital to ensure engine longevity. Use high-quality synthetic or mineral oil suitable for your engine type.

1. Warm up the engine to ensure proper oil flow.
2. Lift the vehicle securely using a jack and jack stands.
3. Remove the oil drain plug and drain the old oil into a container.
4. Replace the oil filter with a new one, ensuring proper sealing.
5. Reinstall the drain plug and pour in the recommended oil quantity and type.
6. Start the engine, check for leaks, and verify oil level with the dipstick.

Timing Belt Replacement

The timing belt is critical for engine synchronization. Replacing it at recommended intervals prevents catastrophic engine damage.

1. Disconnect the battery and remove any components obstructing access to the timing belt cover.
2. Align the timing marks on the camshaft and crankshaft pulleys.
3. Remove the old timing belt carefully.
4. Inspect tensioners and pulleys; replace if worn or damaged.
5. Install the new belt, ensuring proper tension and alignment.
6. Reassemble all components and verify timing accuracy before starting the engine.

Brake System Maintenance

Brakes are crucial for safety. Regular inspection and replacement of brake pads and fluid help maintain braking efficiency.

1. Remove the wheels to access brake components.
2. Inspect brake pads for thickness; replace if below manufacturer’s recommended limit.

3. Check the brake discs for warping or scoring.
4. Drain and replace brake fluid every 2 years to prevent brake fade.
5. Bleed the brake system to remove air bubbles after fluid replacement.

Cooling System Service

Maintaining optimal engine temperature is essential for performance and longevity.

1. Drain the old coolant from the radiator and engine block.
2. Flush the cooling system to remove debris and contaminants.
3. Refill with a 50/50 mixture of coolant and distilled water.
4. Check hoses and radiator for leaks or damage.

Common Issues and Troubleshooting

Understanding typical problems specific to the Nissan Primera P11 144 model can help owners troubleshoot and address issues promptly.

Engine Performance Problems

1. **Misfires or Rough Idling:** Often caused by worn spark plugs, dirty fuel injectors, or faulty sensors.
2. **Loss of Power:** May result from clogged air filters, fuel system issues, or exhaust blockages.
3. **Check Engine Light:** Diagnostic codes can identify sensor failures, vacuum leaks, or emissions system faults.

Transmission Concerns

1. **Delayed or Sluggish Shifting:** Could be due to low transmission fluid or worn clutch components.
2. **Fluid Leaks:** Inspect for leaks around the transmission housing and replace seals as needed.

Suspension and Steering Issues

1. **Unusual Noises or Vibrations:** Worn shocks, struts, or bushings can cause handling problems.
2. **Steering Wheel Vibration:** May indicate unbalanced tires or worn steering components.

Electrical System Troubleshooting

1. **Battery or Alternator Problems:** Check voltage output and replace faulty parts.

2. **Lighting or Sensor Failures:** Inspect wiring connections and replace defective modules.

DIY Tips and Safety Precautions

Performing repairs on your Nissan Primera P11 144 can be rewarding but requires adherence to safety protocols.

Tools and Supplies Needed

1. Basic hand tools: screwdrivers, wrenches, pliers
2. Specialized tools: timing belt tensioner, brake caliper piston tool
3. Replacement parts: filters, belts, brake pads, fluids
4. Protective gear: gloves, safety glasses

Safety Tips

1. Always work on a cooled engine to prevent burns.
2. Use jack stands securely when lifting the vehicle.
3. Disconnect the battery before working on electrical components.
4. Follow manufacturer instructions for torque specifications.
5. Dispose of used fluids and parts responsibly.

When to Seek Professional Help

While many maintenance tasks are manageable for DIY enthusiasts, certain repairs require professional expertise.

1. Complex engine diagnostics beyond basic code reading
2. Transmission rebuilds or replacements
3. Advanced electrical system repairs
4. Structural frame repairs after accidents

Conclusion

Maintaining a Nissan Primera P11 144 from 1999 to 2002 through proper service and timely repairs is essential for ensuring its reliability, safety, and performance. By understanding the key maintenance routines, common issues, and troubleshooting techniques outlined in this guide, owners can keep their vehicles running smoothly for years. Regular inspections, attention to warning signs, and adherence to service schedules will help maximize the lifespan of your Nissan Primera P11 144, making it a trusted companion on the road. Remember, when in doubt or facing complex repairs, consulting a professional mechanic is always recommended to ensure safety

and proper vehicle care.

Nissan Primera P11 144 Service Repair (1999-2002): An In-Depth Guide The Nissan Primera P11, particularly the 144 model produced between 1999 and 2002, remains a beloved vehicle for enthusiasts and daily drivers alike. Known for its reliability, comfort, and solid build quality, the P11 144 has garnered a loyal following. However, like any vehicle, it requires routine maintenance and occasional repairs to keep it running at its best. This comprehensive guide aims to provide detailed insights into the service and repair aspects of the Nissan Primera P11 144, covering everything from common issues to maintenance schedules, DIY tips, and professional repair considerations.

Overview of the Nissan Primera P11 144 (1999-2002)

The Nissan Primera P11 series, specifically the 144 model, was part of the second-generation Primera lineup. It was produced from 1999 until 2002 and offered a range of petrol and diesel engines, along with various trim levels. Its design emphasized practicality, comfort, and a balanced driving experience. Key Features: - Engine options included

1.6L, 1.8L, 2.0L, and 2.2L petrol engines, as well as diesel variants. - Front-wheel drive (FWD) was standard, with some models offering all-wheel drive. - Transmission choices comprised 5-speed manual and 4-speed automatic options. - Notable for its spacious interior, good visibility, and reliable performance. Understanding these basics sets the stage for effective service and repair strategies.

Common Mechanical and Electrical Issues

While the P11 144 is known for durability, owners frequently encounter certain issues over time. Recognizing these problems early can save money and prevent breakdowns.

1. Engine Management and Performance Problems

- Check Engine Light (CEL): Often triggered by faulty sensors such as the MAF (Mass Air Flow), oxygen sensors, or the fuel mixture. - Rough Idle or Misfires: Common causes include worn spark plugs, faulty ignition coils, or dirty fuel injectors. - Loss of Power: Could be due to clogged air filters, fuel pump issues, or exhaust restrictions.

2. Cooling System Failures

- Overheating: Frequently caused by a failing thermostat, radiator leaks, or water pump issues. - Coolant Leaks: From radiator hoses, the radiator itself, or the heater core.

3. Transmission and Drivetrain

- Slipping Gears or Hard Shifts: May indicate low transmission fluid or a worn clutch in manual variants. - Automatic Transmission Problems: Commonly involve fluid deterioration or solenoid failures.

4. Suspension and Steering

- Clunking or knocking sounds: Often from worn suspension bushes, ball joints, or struts. - Loose Steering: Worn steering rack or tie rods.

5. Electrical System Issues

- Battery and Alternator: Weak batteries or failing alternators cause starting issues. - Lights and Sensors: Faulty wiring or sensors can trigger warning lights and malfunctioning electronics.

Maintenance Schedule and Service Intervals

Adhering to a proper maintenance schedule is crucial for the longevity and reliability of the Nissan Primera P11 144.

Basic Service Intervals

| Service Item | Frequency | Details | |||| | Oil and Filter Change | Every 5,000 - 7,500 km / 3,000 - 5,000 miles or annually | Use recommended 5W-30 or 10W-40 engine oil. | | Spark Plugs | Every 30,000 km / 18,000 miles | Replace with OEM or equivalent iridium plugs for longevity. | | Timing Belt | Every 60,000 - 100,000 km / 37,000 - 62,000 miles | Critical to prevent engine damage; inspect regularly. | | Coolant Flush | Every 2 years | Use Nissan-approved coolant to prevent corrosion. | | Brake Fluid | Every 2 years | Flush and replace to maintain braking performance. | | Air Filter | Every 15,000 - 20,000 km / 9,000 - 12,000 miles | Check more frequently in dusty environments. | | Fuel Filter | Every 30,000 km / 18,000 miles | Replace to ensure clean fuel delivery. | | Transmission Fluid | Manual: every 60,000 km / 37,000 miles Automatic: every 60,000 - 100,000 km | Use

recommended fluid type; check levels regularly. |

Additional Checks

- Inspect suspension components for wear. - Check exhaust system for leaks or corrosion. - Test battery health periodically. - Monitor tire condition and pressure.

DIY Repair and Maintenance Tips

Many routine maintenance tasks can be performed by experienced DIYers, saving time and money.

Changing Engine Oil and Filter

Tools Needed: - Socket set - Oil catch pan - Oil filter wrench - Funnel - Gloves and safety glasses Steps: 1. Warm up engine for easier oil flow. 2. Lift the vehicle safely with jack and stands. 3. Unscrew the drain plug and let the oil drain into the catch pan. 4. Remove the old oil filter using an oil filter wrench. 5. Install the new filter, ensuring proper seal. 6. Reinstall drain plug securely. 7. Pour new oil through the fill cap. 8. Start the engine, check for leaks, and verify oil level.

Replacing Spark Plugs

1. Locate spark plugs; they are accessible from the top of the engine. 2. Remove ignition coils if necessary. 3. Use a spark plug socket to unscrew old plugs. 4. Check gap and install new plugs to manufacturer specifications. 5. Reassemble components.

Cooling System Service

- Drain old coolant. - Flush the system with water or radiator cleaner. - Refill with fresh coolant mixture. - Bleed the system to remove air pockets.

Brake Pad Replacement

1. Remove wheels. 2. Unbolt calipers and slide out old pads. 3. Compress pistons if necessary. 4. Install new pads, ensuring proper alignment. 5. Reassemble calipers and wheels. These DIY tasks require basic mechanical skills; always consult the vehicle’s service manual for specific procedures and torque specifications.

Parts and Accessories: Sourcing

and Recommendations

Securing quality parts is essential for reliable repairs. Here are some tips: - OEM Parts: Always preferred for critical components like timing belts, water pumps, and sensors. - Aftermarket Parts: Reputable brands can offer cost-effective alternatives but verify quality. - Where to Buy: Authorized Nissan dealerships, trusted online retailers, and local auto parts stores. - Common Replacement Parts for P11 144: - Timing belt kits - Spark plugs - Air and fuel filters - Brake pads and discs - Suspension components (bushings, shocks) - Sensors (oxygen, MAF, coolant temperature)

Professional Repair and Servicing Considerations

While DIY maintenance is feasible for many tasks, some repairs require specialized tools and expertise. When to Seek Professional Help: - Transmission overhaul or repair - Engine rebuilding or major internal repairs - Electrical system diagnostics involving ECU reprogramming - Clutch replacement on manual models - Suspension overhauls involving strut replacement Choosing a Repair Shop: - Look for shops with experience in Nissan vehicles. - Check reviews

and references. - Ensure technicians are familiar with the P11 platform. - Confirm warranty policies on repairs.

Upgrades and Modifications for the Nissan Primera P11 144

For enthusiasts looking to enhance their vehicle, several upgrades can be considered: - Performance Air Intake: Improves airflow and engine response. - Exhaust Upgrades: Aftermarket exhausts can boost power and sound. - Suspension Enhancements: Lowering kits or upgraded shocks for better handling. - Brake Performance: Upgraded brake pads and rotors. - Interior Customizations: New seats, audio systems, or cosmetic enhancements. Always ensure modifications are compatible and compliant with local regulations.

Conclusion: Maintaining Your Nissan Primera P11 144

The Nissan Primera P11 144 remains a dependable vehicle when properly maintained. Regular service, timely repairs, and attention to common issues will prolong its lifespan and ensure safe, reliable driving. Whether you opt for DIY repairs or professional

assistance, understanding the vehicle's needs and adhering to maintenance schedules are key to keeping your Primera in top condition. By investing in quality parts, staying vigilant about potential problems, and performing routine checks, owners can enjoy the longevity and comfort that the P11 144 offers. Its robust design and straightforward engineering make it an ideal candidate for those looking for a reliable, affordable, and manageable vehicle. Remember, proactive maintenance not only prevents costly repairs but also enhances safety and driving pleasure. With the right knowledge and approach, your Nissan Primera P11 144 can serve you well beyond its initial years, continuing to deliver dependable performance on the road.

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Questions & Answers About nissan primera p11 144 service repair 99 02

No	Question	Answer

1	What are common issues to look out for when servicing a Nissan Primera P11 144 from 1999-2002?	Common issues include worn timing belts, brake wear, suspension components, and potential oil leaks from the valve cover gasket. Regular inspection and maintenance can help prevent major repairs.
2	How often should I perform a full service on a Nissan Primera P11 144?	It is recommended to perform a full service every 10,000 to 15,000 miles or annually, whichever comes first. This includes oil change, filter replacements, brake inspection, and fluid checks.
3	What are the essential parts to replace during a 99-02 Nissan Primera P11 144 service repair?	Key parts often replaced include engine oil and filter, air filter, spark plugs, brake pads, and timing belt if due. Inspect other components like suspension bushings and coolant hoses as needed.
4	Are there any specific tools required for repairing a Nissan Primera P11 144 from 1999-2002?	Yes, basic tools such as socket sets, screwdrivers, pliers, and specialized tools like a timing belt tensioner tool are necessary. A diagnostic scanner can also help identify electronic issues.

5	What are the signs indicating that my Nissan Primera P11 144 needs a service or repair?	Signs include unusual noises, warning lights, decreased fuel efficiency, rough idling, brake squealing, or oil leaks. Regular maintenance helps catch issues early.
6	Can I perform the Nissan Primera P11 144 service repair myself, or should I seek professional help?	Basic maintenance like oil changes and filter replacements can be done at home if you have mechanical skills. However, complex repairs such as timing belt replacement or electronic diagnostics are best handled by professionals.
7	What should I do if my Nissan Primera P11 144 experiences starting issues during service?	First, check the battery, starter motor, and ignition system. If the problem persists, consult a mechanic to diagnose electrical or fuel system faults.
8	Are there any recommended aftermarket parts or accessories for the Nissan Primera P11 144 during repairs?	Yes, reputable aftermarket brands for filters, brake pads, and suspension components can offer good quality options. Always ensure compatibility and quality when selecting parts.

Nissan Primera P11, P11 144, service manual, repair guide, 1999 Nissan Primera, 2002 Nissan Primera, P11 engine repair, P11 diagnostics, Nissan Primera maintenance, P11 parts replacement

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Modern learners increasingly value flexibility, immediacy, and control over how they access educational materials.

Readers can incorporate Nissan Primera P11 144 Service Repair 99 02 eBooks into daily routines

without significant time or space requirements.

Digital libraries replace bulky collections while preserving accessibility.

Digital learning through Nissan Primera P11 144 Service Repair 99 02 eBooks aligns well with modern productivity systems and digital note-taking tools.

For long-term projects, Nissan Primera P11 144 Service Repair 99 02 eBooks serve as stable reference materials that can be revisited repeatedly.

Nissan Primera P11 144 Service Repair 99 02 eBooks encourage disciplined learning habits.

Nissan Primera P11 144 Service Repair 99 02 eBooks help bridge theoretical understanding and practical application.

Businesses leverage Nissan Primera P11 144 Service Repair 99 02 eBooks to onboard new employees efficiently and consistently.

The structured format of Nissan Primera P11 144 Service Repair 99 02 eBooks helps learners follow logical progressions from basic concepts to advanced applications.

Nissan Primera P11 144 Service Repair 99 02 eBooks are frequently referenced during planning and

execution phases.

Nissan Primera P11 144 Service Repair 99 02 eBooks support lifelong learning initiatives.

Nissan Primera P11 144 Service Repair 99 02 eBooks reduce time spent validating information sources.

Reliable content builds trust.

Nissan Primera P11 144 Service Repair 99 02 eBooks are valued for their reliability.

Many organizations incorporate Nissan Primera P11 144 Service Repair 99 02 eBooks into internal training systems to ensure standardized knowledge transfer.

Digital access to Nissan Primera P11 144 Service Repair 99 02 content supports continuous learning habits and incremental skill development.

Nissan Primera P11 144 Service Repair 99 02 eBooks help learners manage long-term educational goals.

The adaptability of Nissan Primera P11 144 Service Repair 99 02 eBooks makes them suitable for beginners, intermediate learners, and advanced professionals alike.

Accessibility across age groups and experience levels enhances inclusivity.

Digital Nissan Primera P11 144 Service Repair 99 02 books allow access across multiple devices, enabling seamless transitions between desktop, tablet, and mobile reading environments without disrupting learning continuity.

Centralized content improves trust and reliability.

Future Trends and Long-Term Sustainability of PDF and Digital Documentation

Digital documentation continues to evolve as technology, user behavior, and information standards change. Despite the emergence of new formats and platforms, PDF files remain a foundational element of digital content distribution. Understanding future trends helps ensure that resources like Nissan Primera P11 144 Service Repair 99 02 remain relevant, accessible, and valuable in the long term.

The strength of PDF lies in its adaptability. Over the years, the format has expanded beyond static pages to support interactivity, accessibility, and enhanced security. As digital ecosystems grow more complex, PDFs continue to serve as a stable bridge between content creation, distribution, and long-term preservation.

The evolving role of PDFs in a digital-first world

As organizations and individuals move toward digital-first workflows, PDFs increasingly function as official records and reference materials. While web-based platforms excel at dynamic content, PDFs provide permanence and consistency. For materials such as Nissan Primera P11 144 Service Repair 99 02, this reliability ensures that information remains unchanged and authoritative over time.

In many industries, PDFs are considered final or approved versions of documents. This role strengthens their importance in compliance, documentation, education, and professional communication.

Integration with cloud-based ecosystems

Cloud technology has transformed how PDFs are stored, accessed, and shared. Integration with cloud platforms allows seamless synchronization across devices, enabling users to access Nissan Primera P11 144 Service Repair 99 02 anytime and anywhere. Cloud-based workflows also support collaboration, version history, and automated backups.

Future PDF usage will likely emphasize deeper cloud

integration, making documents more connected while preserving their standalone nature. This balance supports flexibility without sacrificing document integrity.

Advancements in accessibility standards

Accessibility is becoming a central requirement rather than an optional feature. Future PDF standards increasingly emphasize compatibility with assistive technologies. Structured tagging, logical reading order, and improved screen reader support ensure that Nissan Primera P11 144 Service Repair 99 02 remains usable by a diverse audience.

Accessible documents benefit all users by improving clarity and navigation. As regulations and expectations evolve, accessible PDFs will become a baseline standard for responsible digital publishing.

Artificial intelligence and PDF interaction

Artificial intelligence is reshaping how users interact with digital documents. AI-powered search, summarization, and content analysis tools are beginning to enhance PDF usability. For large documents like Nissan Primera P11 144 Service Repair 99 02, these technologies allow users to extract

insights more efficiently.

Future PDF readers may offer intelligent navigation, automated highlights, and contextual recommendations. These features enhance productivity while maintaining the original structure and reliability of PDF documents.

Enhanced interactivity and smart documents

PDFs are no longer limited to static text and images. Interactive forms, embedded media, and dynamic elements continue to evolve. Smart PDFs can guide users through content, collect input, and adapt based on user interaction. When applied thoughtfully, these features add value to Nissan Primera P11 144 Service Repair 99 02 without overwhelming readers.

The future of PDF interactivity focuses on usability and compatibility. Interactive features must remain accessible across devices and platforms to ensure consistent user experiences.

Long-term archiving and digital preservation

One of the most important roles of PDFs is long-term preservation. Libraries, institutions, and organizations rely on PDFs to archive knowledge and records. Using

standardized PDF formats and maintaining multiple backups ensures that Nissan Primera P11 144 Service Repair 99 02 remains accessible for years or even decades.

Digital preservation strategies increasingly emphasize format stability, metadata accuracy, and redundancy. PDFs continue to meet these requirements better than many alternative formats.

Balancing PDFs with emerging formats

While new formats and platforms continue to emerge, PDFs coexist rather than compete directly. HTML, interactive web apps, and multimedia platforms offer flexibility, while PDFs provide consistency and permanence. Using PDFs like Nissan Primera P11 144 Service Repair 99 02 alongside other formats creates a balanced digital content strategy.

This hybrid approach allows users to choose how they consume information while ensuring that authoritative versions remain available in a stable format.

Security advancements and trust models

As digital threats evolve, PDF security features continue to improve. Enhanced encryption, stronger

authentication, and improved digital signatures help protect document integrity. For sensitive materials such as Nissan Primera P11 144 Service Repair 99 02, these advancements reinforce trust and authenticity.

Future security models will likely focus on transparency and verification rather than restrictive controls, allowing users to trust documents without sacrificing usability.

Regulatory and compliance-driven documentation

Regulatory requirements increasingly shape digital documentation practices. PDFs remain a preferred format for compliance due to their stability and auditability. Maintaining clear version history, digital signatures, and secure storage ensures that Nissan Primera P11 144 Service Repair 99 02 meets regulatory expectations across industries.

As regulations evolve, PDFs adapt by supporting new standards for authenticity, traceability, and accessibility.

Sustainability and efficient digital practices

Digital documentation contributes to sustainability by

reducing paper usage. Optimized PDFs minimize storage and bandwidth consumption, supporting environmentally responsible practices. Efficient handling of Nissan Primera P11 144 Service Repair 99 02 reduces duplication and unnecessary data storage.

Sustainable digital practices also include long-term planning, reducing the need for frequent format migration and minimizing digital waste.

User behavior and reading habits

User expectations continue to influence PDF development. Readers increasingly expect intuitive navigation, responsive performance, and customizable viewing options. Future PDFs will likely prioritize user comfort while preserving document consistency. When Nissan Primera P11 144 Service Repair 99 02 aligns with modern reading habits, engagement and satisfaction increase.

Understanding how users interact with digital documents helps creators design PDFs that remain effective and relevant over time.

Maintaining relevance through regular updates

Long-term value depends on relevance. Periodically

reviewing and updating PDFs ensures accuracy and usefulness. When updates are required, clear versioning helps users identify the most current edition of Nissan Primera P11 144 Service Repair 99 02.

Maintaining editable source files alongside PDFs simplifies updates and supports long-term adaptability as standards evolve.

Preparing for technological change

Technology will continue to evolve, but documents that follow open standards are more resilient. Using widely supported features, avoiding proprietary dependencies, and maintaining clean structure help future-proof Nissan Primera P11 144 Service Repair 99 02.

Preparedness reduces the risk of obsolescence and ensures smooth transitions as tools and platforms change over time.

The enduring value of PDF documentation

Despite rapid technological change, PDFs remain one of the most reliable formats for structured information. Their balance of stability, flexibility, and compatibility

ensures continued relevance. Resources like Nissan Primera P11 144 Service Repair 99 02 benefit from this durability, maintaining value long after initial publication.

PDFs are not a temporary solution but a long-term foundation for digital knowledge sharing and preservation.

Final thoughts on the future of PDFs

The future of digital documentation is shaped by accessibility, security, intelligence, and sustainability. PDFs continue to evolve while preserving their core strengths. By adopting best practices and staying informed about emerging trends, users can ensure that Nissan Primera P11 144 Service Repair 99 02 remains accessible, trustworthy, and effective for years to come. Thoughtful preparation today creates lasting digital resources that stand the test of time.