

Ford Sierra 20 Dohc Tuning

Ford Sierra 20 DOHC Tuning: Unlocking the Potential of a Classic **ford sierra 20 dohc tuning** is a passion project for many automotive enthusiasts who appreciate the blend of classic style and modern performance potential packed into this iconic model. The Ford Sierra, particularly the 2.0-liter DOHC (Double Overhead Camshaft) engine variant, offers a solid foundation for tuners looking to boost power, improve handling, and breathe new life into a beloved classic. Whether you own a Sierra for daily driving, weekend cruising, or track days, understanding how to tune the 20 DOHC engine properly can transform your car's character and performance.

Why Tune a Ford Sierra 20 DOHC?

Tuning the Ford Sierra 20 DOHC isn't just about adding horsepower; it's about optimizing the car's overall driving experience. The 2.0-liter DOHC engine, found in models like the Sierra XR4x4 and XR4i, was ahead of its time with its twin-cam layout, allowing for better airflow and higher rev limits compared to older SOHC engines. Yet, by today's standards, the stock setup leaves room for improvement. Many enthusiasts are drawn to tuning because it allows them to:

- Increase engine output beyond factory specifications
- Improve throttle response and fuel efficiency
- Enhance exhaust sound and engine character
- Upgrade suspension and braking systems to match increased power
- Personalize the car's performance to one's driving style

Understanding the Ford Sierra 20 DOHC Engine

Before diving into tuning, it's essential to understand what makes the Sierra's 2.0 DOHC tick. The engine features: - 2.0-liter displacement with four cylinders - Twin overhead camshafts for better valve timing precision - Multi-point fuel injection or carburetion, depending on the model year - A relatively high rev limit for its era, often around 6,500 rpm This setup provided a good balance of power and efficiency, but there's plenty of scope for improvement through tuning techniques such as ECU remapping, intake and exhaust upgrades, and internal engine modifications.

Common Modifications for Ford Sierra 20 DOHC Tuning

When tuning a Ford Sierra 20 DOHC, enthusiasts typically focus on several key areas:

1. **Intake and Exhaust Upgrades:** Upgrading to a performance air filter or cold air intake improves airflow, while fitting a free-flowing exhaust system reduces backpressure, both of which help the engine breathe better.
2. **ECU Remapping and Fuel Tuning:** Modern tuners often reprogram the engine control unit (ECU) to optimize fuel delivery and ignition timing for increased power and throttle response.
3. **Camshaft Upgrades:** Installing performance camshafts can increase valve lift and duration, allowing more air and fuel into the combustion chamber, which translates into higher power output.
4. **Forced Induction:** Some serious tuners add turbochargers or superchargers to the 20 DOHC engine, significantly boosting horsepower and torque, but this requires comprehensive supporting modifications.
5. **Suspension and Brake Enhancements:** To handle the added power,

upgrading suspension components and brakes ensures the car remains balanced and safe during spirited driving.

Performance Gains You Can Expect

With a well-planned tuning setup, the Ford Sierra 20 DOHC can see notable improvements. Stock power output typically hovers around 120-130 horsepower, but with basic bolt-on modifications and ECU tuning, gains of 20-40 horsepower are realistic. More extensive builds, especially those incorporating forced induction, can push outputs well beyond 200 horsepower. These upgrades also improve torque delivery, which enhances acceleration and overall drivability without necessarily sacrificing reliability when done correctly.

Step-by-Step Guide to Tuning Your Ford Sierra 20 DOHC

If you're new to tuning or want to approach it methodically, here's a straightforward plan to get the most out of your Ford Sierra 20 DOHC:

1. Assess the Car's Condition

Before any modifications, ensure your Sierra is mechanically sound. Check for:

1. Engine health (compression test, oil condition)
2. Suspension and brake wear
3. Electrical systems and ECU integrity
4. Fuel system condition

A healthy base ensures tuning efforts are built on a reliable platform.

2. Upgrade the Intake and Exhaust

Start by installing a high-flow air filter or cold air intake to maximize airflow. Pair this with a performance exhaust system, such as a stainless steel manifold and a cat-back exhaust, to reduce restrictions and improve engine breathing.

3. Remap or Replace the ECU

Either have your stock ECU remapped by a professional or consider swapping it for a standalone management system. This step allows you to fine-tune fuel maps and ignition timing, which unlocks power gains and improves throttle response.

4. Consider Camshaft and Valve Train Upgrades

Performance camshafts designed for the 20 DOHC engine can increase airflow and power. Keep in mind that cam upgrades may require adjustments to valve clearances and timing chains.

5. Enhance Fuel Delivery

Upgrading fuel injectors or fitting a high-flow fuel pump ensures the engine receives adequate fuel, especially if you plan to increase boost pressure with forced induction.

6. Forced Induction (Optional)

Adding a turbocharger or supercharger is a more advanced step. It requires upgraded internals like forged pistons, stronger connecting rods, and enhanced cooling systems. This route delivers the most dramatic power

increases but also demands more investment and tuning expertise.

7. Suspension and Brake Upgrades

Don't overlook handling improvements. Install stiffer springs, upgraded dampers, and performance brake pads or discs to cope with extra power and maintain control.

Tips for Successful Ford Sierra 20 DOHC Tuning

Tuning a classic car like the Sierra can be incredibly rewarding, but it's important to approach it with care:

1. **Start Small:** Begin with simple bolt-ons and ECU tuning before moving to major engine modifications.
2. **Quality Parts Matter:** Invest in reputable brands to ensure reliability and performance.
3. **Professional Help:** Consult experts or tuning shops familiar with the Sierra's engine to avoid costly mistakes.
4. **Regular Maintenance:** Keep up with oil changes, spark plugs, and other routine services to support your tuned engine.
5. **Test and Tune:** Dyno testing and road tuning help you dial in the perfect setup for your specific car.

The Legacy and Community Around Ford Sierra 20 DOHC Tuning

The Ford Sierra holds a special place in automotive culture, especially in Europe. Enthusiasts' clubs and online forums are treasure troves of knowledge, offering advice, parts swaps, and shared project builds focused

on the 20 DOHC engine. Engaging with this community can accelerate your tuning journey, provide inspiration, and help troubleshoot any challenges. Whether restoring a Sierra to its former glory or pushing the limits of what the 2.0 DOHC can do, the camaraderie and shared passion among Sierra fans add an extra layer of enjoyment to tuning. Exploring the tuning potential of the Ford Sierra 20 DOHC is a journey that blends nostalgia with modern performance upgrades. From improving airflow to advanced engine management and beyond, this classic car continues to captivate and thrill drivers who love a hands-on approach to automotive performance.

Ford Sierra 20 DOHC Tuning: Unlocking the Potential of a Classic Icon **ford sierra 20 dohc tuning** has emerged as a niche yet highly rewarding pursuit among automotive enthusiasts and tuners who appreciate the blend of classic British engineering and modern performance upgrades. The Ford Sierra, particularly the 20-valve DOHC variant, offers a unique platform that balances historical significance with tuning potential, making it an intriguing subject for performance enhancement. This article delves deep into the nuances of tuning the Ford Sierra 20 DOHC engine, exploring the best practices, common modifications, and the challenges faced by tuners aiming to extract maximum power and efficiency from this classic powerhouse.

Understanding the Ford Sierra 20 DOHC Engine

Before delving into tuning specifics, it is essential to understand the engine architecture that defines the Ford Sierra 20 DOHC. Introduced in the 1980s, the Sierra's 2.0-liter dual overhead camshaft (DOHC) engine was celebrated for its advanced valve train design, which allowed for better airflow and higher rev limits compared to its single overhead camshaft (SOHC) counterparts. This engine was a favorite among motorsport enthusiasts due to its robust build and relatively simple tuning potential. The 20-valve configuration means the engine has four valves per cylinder, promoting

improved combustion efficiency. This design naturally lends itself to performance tuning as it supports higher RPMs and better breathing capabilities, critical factors for increasing horsepower and torque.

Key Areas of Focus in Ford Sierra 20 DOHC Tuning

Intake and Exhaust Upgrades

A fundamental step in tuning the Ford Sierra 20 DOHC is optimizing the intake and exhaust systems. The stock setup, while adequate for everyday driving, limits airflow, which restricts the engine's full potential.

1. **Performance Air Filters and Intakes:** Upgrading to a high-flow air filter or a cold air intake system can significantly improve the volumetric efficiency of the engine. This modification allows cooler, denser air to enter the combustion chamber, enhancing power delivery.
2. **Exhaust Manifold and Cat-back Systems:** Replacing the restrictive factory exhaust manifold with a tubular header or a performance manifold reduces backpressure. Complementing this with a high-flow cat-back exhaust system further aids in exhaust scavenging, improving horsepower and throttle response.

Such upgrades typically yield noticeable gains in mid-range torque and overall engine responsiveness, essential traits for spirited driving and competitive motorsport applications.

ECU Remapping and Fuel Management

Modern tuning of the Ford Sierra 20 DOHC often involves reprogramming the Engine Control Unit (ECU) to optimize fuel delivery and ignition timing. Although the Sierra predates widespread electronic engine management, many tuners retrofit modern ECUs or piggyback controllers to achieve

precise tuning. Recalibrating the fuel map ensures the engine receives the correct air-fuel ratio across all load conditions, which is critical when other hardware upgrades are installed. Ignition timing adjustments can unlock additional power by advancing spark timing within safe limits, improving combustion efficiency. In turbocharged variants of the Sierra, proper boost control integration with the ECU is vital to prevent engine knock and ensure reliability under increased pressure.

Forced Induction: Turbocharging and Supercharging

One of the most potent ways to enhance the Ford Sierra 20 DOHC is by adding forced induction. Turbocharging has long been a favorite among Sierra tuners, given the engine's robust internals and ability to handle boosted conditions.

1. **Turbo Kits:** Aftermarket turbo kits designed specifically for the 2.0 DOHC are available, featuring upgraded turbochargers, intercoolers, and supporting hardware. These kits can elevate power output from a stock 120-140hp range up to 250hp or more, depending on the build.
2. **Supercharging:** Less common but equally effective, supercharging offers immediate throttle response and linear power delivery. However, it often requires more extensive modifications to accommodate the accessory-driven compressor.

Forced induction tuning demands careful consideration of supporting modifications such as stronger pistons, forged rods, and upgraded cooling systems to maintain engine reliability.

Common Challenges in Tuning the

Ford Sierra 20 DOHC

Tuning a classic like the Ford Sierra 20 DOHC is not without its obstacles. Enthusiasts must navigate a few challenges to achieve a balanced build.

Parts Availability and Compatibility

Being a vehicle from the late 20th century, sourcing OEM or compatible aftermarket parts for the Sierra's 20 DOHC engine can be difficult. Tuners often have to rely on specialized suppliers or salvage parts from other Ford models with similar engine components. This scarcity can increase costs and extend build times.

Engine Management Integration

As mentioned, the original Sierra 20 DOHC engine was not designed with modern electronic engine management in mind. Retrofitting an ECU or standalone engine management system requires technical expertise and custom wiring solutions. This integration is crucial for tuning fuel maps and ignition timing accurately, especially when implementing forced induction.

Balancing Reliability with Performance

Increasing power output invariably stresses engine components beyond their original design limits. Tuners must strike a balance between extracting performance and maintaining the Sierra's reputation for reliability. Upgrading internal components such as camshafts, valve springs, and pistons is often necessary for high-performance builds.

Comparing Ford Sierra 20 DOHC Tuning with Other Classic Tuning Platforms

When compared to other classic performance engines, such as the BMW M20 or the Volkswagen 1.8T, the Ford Sierra 20 DOHC offers a unique blend of affordability and tuning potential. While the M20 benefits from extensive aftermarket support, the Sierra engine stands out for its simpler mechanical design, which can be advantageous for tuners preferring a hands-on approach. In terms of power gains, turbocharged Sierra 20 DOHC engines can rival or exceed the outputs of these contemporaries, particularly when boosted. However, the tuning community around the Sierra is smaller, which can limit shared knowledge and parts availability.

Benefits and Drawbacks of Tuning the Sierra 20 DOHC

1. **Pros:** The engine's robust build, 20-valve DOHC design, and relatively lightweight make it an excellent candidate for performance upgrades. Its classic status also adds to its appeal among enthusiasts.
2. **Cons:** Limited aftermarket support, potential difficulties in ECU tuning, and parts scarcity pose challenges for tuners.

Popular Modifications for Ford Sierra 20 DOHC Tuning Enthusiasts

Many tuners focus on a combination of bolt-on modifications and internal upgrades to maximize the 20 DOHC's output and drivability.

1. **Camshaft Upgrades:** Performance camshafts with more aggressive

profiles improve valve timing, enhancing power at higher RPMs.

2. **High-Compression Pistons:** Increasing the compression ratio can raise power output but requires careful tuning to avoid detonation.
3. **Lightweight Flywheel:** Reduces rotational mass, improving throttle response and engine revving characteristics.
4. **Suspension and Brake Upgrades:** Since power increases, upgrading suspension components and brakes ensures the Sierra can handle the additional performance safely.

Each modification should be considered in the context of the overall build goals, whether for street use, track days, or rallying.

Final Thoughts on Ford Sierra 20 DOHC Tuning

The Ford Sierra 20 DOHC remains a compelling platform for car enthusiasts who appreciate the challenge and reward of tuning a classic engine. While it requires careful planning, technical know-how, and sometimes creative sourcing of parts, the payoff is a uniquely tuned vehicle that blends vintage charm with modern performance capabilities. Whether through intake and exhaust enhancements, ECU remapping, or forced induction, the tuning possibilities for the Sierra 20 DOHC engine continue to attract a dedicated community eager to keep this iconic powerplant alive and thriving on roads and tracks alike.

Most people do not set out with the intention of downloading a book. Usually, it starts with a small need. A question that lingers longer than expected, a topic that keeps appearing in conversations, or a moment when surface-level information simply is not enough. That is often when Ford Sierra 20 Dohc Tuning enters the picture.

At first, the goal might be modest. Read a chapter. Find one useful explanation. Move on. But having the book available in PDF format quietly

changes that intention. There is no rush to finish, no pressure to read everything at once. The book sits there, ready, waiting for attention.

Reading begins to happen in fragments. A few pages in the morning while the day is still quiet. A bookmarked section checked again in the afternoon. A highlighted paragraph revisited at night because it suddenly makes more sense. These moments do not feel like formal study. They feel natural.

The layout remains familiar every time the file is opened. Pages look the same, headings stay where they were, and visual cues help the mind remember. Over time, readers stop searching and start navigating instinctively.

Notes appear almost without effort. A sentence stands out, so it gets highlighted. A thought forms, so it gets written in the margin. Weeks later, those notes feel like messages left behind by an earlier version of the reader.

Search tools quietly save time. Instead of flipping through pages or scrolling endlessly, one keyword brings clarity. It turns the book into something useful long after the first read.

There is also a sense of relief in knowing the source is trustworthy. When a book comes from a reliable platform, attention stays on understanding, not on questioning accuracy or safety.

For students, this kind of access feels stabilizing. Materials are always there, even when schedules are chaotic. Studying becomes less about urgency and more about familiarity.

Professionals experience it differently. Certain sections become references. Others gain meaning only after real-world experience catches up. The book grows alongside the reader.

Independent learners often appreciate the absence of structure. There is no deadline, no checklist. Progress happens when curiosity returns, not when it is demanded.

Accessibility options quietly matter. Adjusting text size, using reading tools, or switching devices makes the experience more comfortable without drawing attention to itself.

Files stay organized. Even after months, returning does not feel like starting over. The content feels known, not overwhelming.

What stands out over time is how the relationship changes. Ford Sierra 20 Dohc Tuning stops feeling like a file that was downloaded. It becomes something familiar, something useful in quiet ways.

Sometimes, a passage read long ago suddenly feels relevant. A concept that once seemed abstract now makes sense. Growth shows itself in these small moments.

Reading no longer feels like an obligation. It becomes something to return to when clarity is needed or curiosity resurfaces.

In this way, learning slips into everyday life without announcement. The book does not demand attention. It simply remains available.

And often, that quiet availability is what makes it valuable. Knowledge does not have to be chased when it is already close at hand.

Questions & Answers About ford

sierra 20 dohc tuning

N o	Question	Answer
1	What are the benefits of tuning a Ford Sierra 2.0 DOHC engine?	Tuning a Ford Sierra 2.0 DOHC engine can improve horsepower, torque, throttle response, and overall engine efficiency, resulting in better performance and driving experience.
2	What are common modifications for tuning a Ford Sierra 2.0 DOHC?	Common modifications include upgrading the intake and exhaust systems, installing performance camshafts, remapping the ECU, fitting a performance ignition system, and improving fuel delivery with better injectors or a carburetor.
3	Can I use aftermarket camshafts to tune my Ford Sierra 2.0 DOHC?	Yes, aftermarket camshafts designed for the Ford Sierra 2.0 DOHC can enhance valve timing and lift, which increases airflow and improves engine performance when combined with supporting modifications.
4	Is ECU remapping effective for improving the Ford Sierra 2.0 DOHC performance?	ECU remapping can optimize fuel and ignition settings, unlocking additional power and improving throttle response. However, it is most effective when combined with hardware upgrades like improved intake and exhaust.
5	What exhaust upgrades are recommended for a Ford Sierra 2.0 DOHC tuning project?	A free-flowing performance exhaust system, including a high-flow catalytic converter and a performance muffler, can reduce backpressure and increase horsepower in a tuned Ford Sierra 2.0 DOHC engine.
6	How much horsepower can I expect after tuning a Ford Sierra 2.0 DOHC?	With basic bolt-on modifications and ECU tuning, you can expect an increase of around 20-30 horsepower, while more extensive modifications could yield even higher gains.

7	Are forced induction options viable for the Ford Sierra 2.0 DOHC?	Yes, turbocharging or supercharging a Ford Sierra 2.0 DOHC is a popular tuning route that can significantly increase power output, but it requires careful engine strengthening and tuning to maintain reliability.
8	What fuel type is best for a tuned Ford Sierra 2.0 DOHC engine?	Higher-octane petrol is recommended for a tuned Ford Sierra 2.0 DOHC engine to prevent knocking and to take full advantage of advanced ignition timing and increased compression from tuning.
9	Do I need to upgrade the cooling system when tuning a Ford Sierra 2.0 DOHC?	Upgrading the cooling system, such as installing a larger radiator or performance fans, is advisable to manage increased heat generated by a tuned and higher-output Ford Sierra 2.0 DOHC engine.
10	Where can I find tuning parts and support for a Ford Sierra 2.0 DOHC?	Tuning parts and support for the Ford Sierra 2.0 DOHC can be sourced from specialist car tuning shops, online forums dedicated to Ford Sierra enthusiasts, and aftermarket performance parts retailers.

ford sierra tuning, 2.0 dohc engine, ford sierra performance parts, dohc engine upgrade, ford sierra modifications, tuning ford sierra 20, ford sierra engine tuning, dohc tuning tips, ford sierra 2.0 engine swap, performance tuning dohc

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Advanced Tips

Advanced tips for managing and using Ford Sierra 20 Dohc Tuning are essential for users who want to maximize efficiency, security, and flexibility when working with digital documents. As collections grow and usage becomes more complex, understanding advanced techniques helps ensure that files remain optimized, accessible, and easy to manage across different devices and use cases.

One of the most important advanced practices is optimizing file size. Large PDF files can be difficult to share, slow to open, and consume unnecessary storage space. By compressing Ford Sierra 20 Dohc Tuning files, users can significantly reduce file size without compromising readability or visual quality. Many professional PDF tools and online services offer intelligent compression that preserves text clarity, images, and layout while removing redundant data.

Another advanced technique involves securing sensitive content. If Ford Sierra 20 Dohc Tuning contains proprietary, academic, or personal information, adding password protection can prevent unauthorized access. Passwords can restrict opening the file, printing, editing, or copying text. This is particularly useful when sharing documents in professional or collaborative environments where data protection is a priority.

Format conversion is also an advanced but practical strategy. Converting Ford Sierra 20 Dohc Tuning PDFs into editable formats such as Word or Excel allows users to revise content, extract data, or repurpose information for presentations and reports. After editing, files can be converted back to PDF to preserve formatting and compatibility. This workflow combines flexibility with consistency, making it ideal for research, education, and professional documentation.

Optimizing file performance

Beyond compression, users can improve performance by removing unnecessary pages, embedded fonts, or unused elements. Splitting large documents into smaller sections can also enhance navigation and reduce loading times, especially on mobile devices or older hardware.

Using Interactive Features

Modern editions of Ford Sierra 20 Dohc Tuning increasingly include interactive features designed to improve engagement and learning outcomes. These features transform static documents into dynamic

experiences that support deeper understanding and active participation. Interactive content is especially valuable for educational materials, training manuals, and technical guides.

Videos embedded within Ford Sierra 20 Dohc Tuning can demonstrate concepts visually, making complex topics easier to grasp. Short explanatory clips, tutorials, or demonstrations complement written text and cater to visual learners. Users should ensure that their PDF reader or eBook application supports multimedia playback to fully benefit from these features.

Quizzes and self-assessment tools are another powerful interactive element. They allow readers to test their understanding, reinforce key concepts, and identify areas that need further review. Interactive quizzes transform passive reading into active learning, improving retention and engagement.

Interactive diagrams and clickable illustrations enable users to explore content in greater detail. Zoomable charts, layered graphics, or clickable annotations provide additional context without overwhelming the main text. These elements are particularly useful in technical, scientific, or instructional versions of Ford Sierra 20 Dohc Tuning.

Hyperlinks also play a crucial role in interactivity. Internal links improve navigation by connecting chapters, sections, or references, while external links direct users to supplementary resources. Effective use of hyperlinks creates a seamless reading experience and encourages further exploration of related topics.

Best practices for interactive content

To fully utilize interactive features, users should keep their reading software updated. Compatibility issues can limit access to multimedia or interactive elements. Testing features across different devices ensures a consistent

experience and prevents frustration during use.

Printing Tips

Despite the advantages of digital formats, printing Ford Sierra 20 Dohc Tuning remains important for many users. Whether for study, annotation, or archival purposes, proper printing techniques ensure that the physical copy maintains the quality and structure of the original document.

Before printing, users should review page setup options carefully. Adjusting page size, orientation, and margins helps prevent content from being cut off or misaligned. Selecting the correct paper size is especially important for documents designed with specific layouts, such as textbooks or manuals.

Duplex printing is an effective way to reduce paper usage and create more compact documents. Printing on both sides of the paper not only saves resources but also makes large documents easier to handle and store. Many modern printers support automatic duplex printing, simplifying the process.

Print quality settings should be adjusted based on purpose. Draft mode is suitable for internal review or rough notes, while high-quality settings are better for final copies or professional presentations. Balancing quality and ink usage helps manage printing costs effectively.

For long documents, printing selected sections rather than the entire file can save time and resources. Using bookmarks or table of contents entries allows users to target specific chapters or pages, making printing more efficient and purposeful.

Binding and physical organization

After printing, organizing physical copies improves usability. Binding options such as spiral binding, folders, or binders keep pages secure and easy to reference. Labeling printed materials with titles and dates further

enhances organization and long-term usability.

Advanced workflows and productivity

Integrating Ford Sierra 20 Dohc Tuning into advanced workflows can significantly boost productivity. Combining digital annotation tools with note-taking applications creates a unified research or study environment. Syncing notes across devices ensures continuity and reduces duplication of effort.

Version control is another advanced practice worth adopting. When editing or updating Ford Sierra 20 Dohc Tuning, maintaining clear version numbers and change logs prevents confusion and accidental overwriting. This is especially important in collaborative projects where multiple contributors are involved.

Automation tools can also streamline repetitive tasks. Batch conversion, bulk compression, or automated backups save time and reduce manual effort. Users managing large collections of digital documents benefit greatly from these efficiencies.

Balancing digital and physical use

Advanced users often combine digital and printed formats strategically. Digital copies offer portability, searchability, and interactivity, while printed versions provide tactile engagement and ease of annotation. Choosing the right format for each task maximizes effectiveness and comfort.

Security and long-term preservation

Protecting Ford Sierra 20 Dohc Tuning goes beyond passwords. Regular backups, encryption, and secure storage practices ensure long-term preservation. Cloud services with version history and redundancy provide additional protection against data loss.

Archiving older versions in a separate location prevents clutter while

preserving historical records. Clear labeling and documentation make archived files easy to retrieve if needed in the future.

Final thoughts on advanced usage of Ford Sierra 20 Dohc Tuning

Mastering advanced tips for Ford Sierra 20 Dohc Tuning empowers users to work more efficiently, securely, and creatively. From compression and security to interactive features and professional printing, these strategies enhance both digital and physical experiences. By adopting advanced workflows, leveraging interactivity, and maintaining organized storage, users can unlock the full potential of Ford Sierra 20 Dohc Tuning in academic, professional, and personal contexts.