

John Deere Lx 235 Owners Manual Textbook

john deere lx 235 owners manual is an essential resource for owners seeking to understand, operate, and maintain their lawn tractor effectively. Whether you're a seasoned landscaper or a homeowner aiming for pristine lawns, having access to a comprehensive manual ensures that your John Deere LX 235 performs optimally and lasts for years to come. This article provides a detailed overview of what you can expect from the owners manual, how to utilize it effectively, and key maintenance tips to keep your mower in top condition.

Understanding the John Deere LX 235 Owners Manual

The owners manual for the John Deere LX 235 is a detailed guide designed to assist users in operating, troubleshooting, and maintaining their lawn tractor. It contains vital information about the machine's features, safety instructions, maintenance schedules, and repair procedures. Proper familiarity with the manual can help prevent common issues, extend the lifespan of the mower, and ensure safe operation.

Key Components Covered in the Manual

- Machine Overview and Specifications
- Safety Precautions and Warnings
- Operating Instructions
- Maintenance and Service Schedules
- Troubleshooting Guides
- Parts Lists and Diagrams
- Storage and Transport Tips

Locating and Accessing the Manual

Finding the official John Deere LX 235 owners manual is straightforward. It can be obtained through various channels:

Official John Deere Website

- Visit the [John Deere Manuals & Publications](<https://www.deere.com/en/parts-and-service/manuals/>) portal.
- Enter your mower's model number (LX 235) to access downloadable PDF versions.

- Register for an account to receive updates and additional resources.

Authorized Dealers and Service Centers

- Many John Deere dealers provide printed copies or digital access to owners manuals.
- Visiting a dealership can also give you personalized assistance.

Third-Party Platforms

- Websites like ManualsLib, RepairClinic, or eBay may have copies of the manual.
- Ensure the manual matches your specific model version.

How to Use the Owners Manual Effectively

Reading the manual thoroughly is crucial for safe and efficient operation. Here are tips on maximizing its benefits:

Start with Safety Instructions

- Always review safety warnings before operating the mower.
- Wear appropriate protective gear as recommended.

Understand the Machine's Features

- Familiarize yourself with controls, levers, and safety features.
- Learn about the mower's cutting height adjustments, deck functions, and engine controls.

Follow Maintenance Guidelines

- Adhere to scheduled inspections, oil changes, and parts replacements.
- Use recommended lubricants and parts specified in the manual.

Utilize Troubleshooting Sections

- Use the troubleshooting guides to diagnose common problems.

- Follow step-by-step instructions for repairs or adjustments.

Maintenance Tips for Longevity and Performance

Proper maintenance is vital to ensuring your John Deere LX 235 remains reliable over the years. The owners manual provides detailed schedules and procedures, but here are some essential tips:

Regular Inspection and Cleaning

- Check for debris, grass build-up, and loose parts after each use.
- Clean the underdeck and air filters regularly.

Engine Oil and Fuel Management

- Change engine oil as per the manual's recommended intervals.
- Use fresh, clean fuel and add fuel stabilizer if storing the mower for extended periods.

Blade Maintenance

- Sharpen blades periodically for a clean cut.
- Replace blades if they become damaged or excessively worn.

Checking and Replacing Belts and Cables

- Inspect drive belts and pulleys for wear.
- Replace damaged belts promptly to prevent drive issues.

Battery Care

- Keep the battery terminals clean and free of corrosion.
- Charge or replace the battery as needed.

Common Troubleshooting Scenarios

The owners manual provides solutions for many typical issues that may arise with the John Deere LX 235:

Engine Won't Start

- Check fuel supply, spark plug condition, and safety switches.
- Ensure the choke is correctly engaged during startup.

Uneven Cutting or Mowing

- Adjust the cutting height.
- Inspect and sharpen blades.

Loss of Power

- Clean or replace the air filter.
- Check for clogged fuel lines or carburetor issues.

Strange Noises or Vibrations

- Inspect blades, belts, and pulleys.
- Tighten loose components and replace worn parts.

Parts and Accessories Information

The manual includes detailed parts lists, diagrams, and specifications for replacement components. Using genuine parts is essential for maintaining safety and performance. When ordering replacements:

- Use the serial number and model details for accuracy.
- Consult the parts diagram to identify exact components.
- Consider OEM (Original Equipment Manufacturer) parts for durability.

Storage and Seasonal Maintenance

Proper storage extends the life of your mower, especially during off-season periods:

Preparation for Storage

- Clean the mower thoroughly.
- Drain or stabilize fuel.
- Change the oil and inspect belts.
- Remove the battery if storing for long durations.

Winterization Tips

- Store in a dry, sheltered location.
- Cover the mower to protect against dust and moisture.
- Perform periodic checks to ensure readiness for the next mowing season.

Conclusion

The **john deere lx 235 owners manual** is an invaluable tool for ensuring your lawn tractor operates safely, efficiently, and reliably. By familiarizing yourself with its contents?covering safety, operation, maintenance, troubleshooting, and parts?you can optimize your mower?s performance and prolong its lifespan. Always refer to the official manual for model-specific instructions and updates. Proper care and understanding of your John Deere LX 235 will reward you with beautifully maintained lawns and peace of mind for years to come.

John Deere LX 235 Owners Manual: A Comprehensive Review and Guide

The John Deere LX 235 Owners Manual is an essential resource for owners, enthusiasts, and prospective buyers of this popular lawn tractor. As a reliable guide, it offers detailed instructions on operation, maintenance, troubleshooting, and safety procedures, ensuring users can maximize the performance and lifespan of their equipment. Whether you're a seasoned landscaper or a homeowner looking to keep your yard pristine, understanding the contents and utility of the owners manual can make all the difference. In this review, we will explore the key features, sections, benefits, and tips associated with the John Deere LX 235 Owners Manual to help you better understand its value and application.

Overview of the John Deere LX 235

Before diving into the manual itself, it?s helpful to understand the John Deere LX 235 tractor?s specifications and features. The LX 235 is a compact, versatile lawn tractor designed for residential use, boasting a sturdy construction, user-friendly controls, and reliable performance. Powered by a Kawasaki engine, it is well-suited for mowing medium to large lawns and performing light yard tasks.

Key Features of the LX 235 include:

- 17-horsepower (HP) Kawasaki engine
- Hydrostatic transmission for smooth control
- 42-inch cutting deck
- Adjustable cutting height
- Comfortable operator station with easy-to-use controls
- Attachments and accessories options

The owners manual complements these features by providing guidance on proper operation, regular maintenance, and safety precautions.

Contents of the John Deere LX 235 Owners Manual

1. Introduction and Safety Information

The manual begins with an introduction that emphasizes safety. It provides essential warnings about potential hazards, such as moving parts, engine hot surfaces, and electrical components. Clear safety instructions aim to prevent accidents and injuries during operation and maintenance.

Features include:

- Safety decals explanations
- Proper protective gear recommendations
- Emergency procedures

2. Product Specifications

This section details the physical and technical specifications of the LX 235, including engine type, transmission details, dimensions, weight, and capacity. It's crucial for understanding the tractor's capabilities and compatibility with attachments.

3. Operating Instructions

A comprehensive guide on starting, operating, and stopping the tractor safely. It covers:

- Dashboard controls
- Gear shifting and speed control
- Mowing procedures
- Handling slopes and uneven terrain
- Attachments operation, such as baggers or snow blades

4. Maintenance Schedule and Procedures

Regular maintenance is vital for longevity and optimal performance. This section provides:

- Daily checks (oil level, tire pressure)
- Weekly and monthly maintenance tasks
- Lubrication points
- Filter replacements
- Belt inspections

Sample maintenance tasks include:

- Changing engine oil
- Replacing air filters
- Sharpening mower blades
- Adjusting drive belts

5. Troubleshooting Guide

In case of operational issues, the manual offers a troubleshooting chart that helps diagnose common problems such as:

- Engine starting issues
- Loss of power
- Unusual noises
- Hydraulic system problems

6. Parts Identification and Diagrams

Detailed illustrations and diagrams assist owners in recognizing components, making repairs or ordering spare parts easier.

7. Warranty and Customer Support

Information regarding warranty coverage and how to contact authorized service centers.

Benefits of Using the Owners Manual

1. Ensures Proper Use and Safety

The manual educates users on safe operation practices, reducing the risk of accidents. Clear instructions help prevent damage to the machine and injury to the operator.

2. Enhances Maintenance and Longevity

Following maintenance guidelines prolongs the lifespan of the LX 235, maintains optimal performance, and avoids costly repairs.

3. Aids in Troubleshooting and Repairs

Having a detailed troubleshooting section allows owners to identify and potentially fix minor issues without immediate professional assistance.

4. Saves Money and Time

Proper maintenance and understanding of the tractor's workings minimize downtime and repair costs.

Key Features and Highlights of the Owners Manual

- User-Friendly Layout: The manual is organized logically, making it easy to locate specific information quickly.
- Clear Illustrations: Diagrams and illustrations enhance understanding, especially for parts identification and maintenance procedures.
- Step-by-Step Instructions: Procedures are broken down into simple, actionable steps suitable for users of varying mechanical skill levels.
- Safety Emphasis: The manual consistently emphasizes safety protocols, making it a trusted resource for responsible operation.

Practical Tips for Using the John Deere LX 235 Owners Manual Effectively

- Keep it Accessible: Store the manual in a safe, readily accessible location near the tractor.
- Review Before Use: Read safety and operation sections thoroughly before first use or after long periods of inactivity.
- Follow Maintenance Schedule: Adhere to recommended intervals for oil changes, filter replacements, and inspections.

- Use Genuine Parts: When replacing parts, refer to diagrams in the manual and opt for genuine John Deere components for compatibility.
- Record Maintenance: Keep a log of repairs and maintenance activities for future reference and warranty purposes.

Pros and Cons of the John Deere LX 235 Owners Manual

Pros:

- Comprehensive coverage of operation, maintenance, and safety
- Clear illustrations and diagrams facilitate understanding
- Helps prolong equipment lifespan and performance
- Designed for users with varying mechanical skills
- Serves as a legal and warranty document

Cons:

- May be overwhelming for complete beginners without mechanical experience
- Printed manuals can be lost or damaged; digital copies are sometimes not provided
- Some specific repair procedures may require professional skills or tools beyond the owner's scope

Conclusion

The John Deere LX 235 Owners Manual is an invaluable resource for owners seeking to operate, maintain, and troubleshoot their lawn tractor effectively. Its detailed instructions, safety guidelines, and visual aids empower users to get the most out of their equipment while minimizing risks and costs. Whether you're a new owner or a seasoned landscaper, investing time in understanding and following the manual ensures your LX 235 remains reliable and efficient for years to come. Proper adherence to the manual's guidelines not only protects your investment but also enhances your overall yard care experience, making lawn maintenance safer, easier, and more effective.

Question Where can I find the official John Deere LX 235 owners manual? You can find the official John Deere LX 235 owners manual on the John Deere website under the 'Parts & Manuals' section or contact your local John Deere dealer for a physical or digital copy. What are the key maintenance tasks covered in the John Deere LX 235 owners manual? The manual covers routine maintenance such as oil changes, blade sharpening, air filter replacement, belt inspections, and safety checks to keep your mower running smoothly. How do I troubleshoot common issues using the John Deere LX 235 owners manual? The manual provides troubleshooting guides for

common problems like engine starting issues, uneven cutting, or transmission problems, including step-by-step solutions and safety tips. What safety precautions are emphasized in the John Deere LX 235 owners manual? The manual emphasizes wearing protective gear, ensuring the mower is turned off before maintenance, keeping bystanders away, and understanding proper operation procedures to prevent accidents. Can I find parts diagrams for the John Deere LX 235 in the owners manual? Yes, the owners manual includes detailed parts diagrams and part numbers to assist with repairs, replacements, or ordering genuine parts. How do I adjust the cutting height on my John Deere LX 235 as per the owners manual? The manual provides step-by-step instructions on adjusting the cutting height using the height adjustment levers or knobs, ensuring an even cut based on your lawn requirements. Is there a section in the owners manual about winterizing the John Deere LX 235? Yes, the manual includes instructions on how to properly winterize your mower, including draining fluids, cleaning, and storage tips to prevent damage during off-season months. How often should I perform maintenance according to the John Deere LX 235 owners manual? Maintenance intervals vary, but the manual generally recommends regular checks after every 25 hours of operation or at least once a season, with detailed schedules for oil changes, filter replacements, and other services.

Related keywords: John Deere LX 235, LX 235 manual, lawn tractor manual, John Deere lawn tractor, LX 235 specifications, LX 235 parts, mower deck manual, John Deere maintenance guide, LX 235 troubleshooting, lawn tractor repair

John deere big book of tractors

john deere big book of tractors is an essential resource for tractor enthusiasts, collectors, and anyone interested in the rich history and diverse lineup of John Deere agricultural machinery. This comprehensive guide offers detailed insights into the evolution, specifications, and significance of John Deere tractors, making it a must-have for both novices and seasoned professionals in the farming and machinery communities.

Overview of the John Deere Big Book of Tractors

The John Deere Big Book of Tractors serves as an extensive catalog and historical compendium, showcasing the company's iconic tractor models from its inception to modern innovations. As one of the most recognized brands in agricultural equipment, John Deere has become synonymous with durability, efficiency, and technological advancement.

This book provides readers with:

- Historical background and evolution of John Deere tractors
- Detailed specifications and features of various models
- High-quality photographs and illustrations
- Anecdotes and interesting facts about the brand
- Guidance for collectors and enthusiasts

The History and Evolution of John Deere Tractors

Origins of John Deere

John Deere, founded in 1837 by blacksmith John Deere, revolutionized farming with the invention of the steel plow. As the company expanded, it naturally progressed into manufacturing tractors in response to the growing demand for mechanized farming equipment.

Early Tractor Models

The early models of John Deere tractors, such as the Model D introduced in the 1920s, laid the groundwork for the brand's reputation. These tractors were known for their robustness and reliability, often used in farms across North America.

Technological Advancements

Over the decades, John Deere incorporated innovations like power steering, diesel engines, and computerized controls. The Big Book highlights these technological milestones, illustrating how the brand adapted to changing agricultural needs.

Popular John Deere Tractor Models Featured in the Big Book

Classic Models

Some of the most celebrated tractors covered include:

- Model D
- Model B
- Model A
- Model 40
- Model 60

These models are praised for their historical significance and the role they played in shaping modern agriculture.

Modern and Contemporary Models

The book also features newer models such as:

- John Deere 5075E
- John Deere 8R Series
- John Deere 6M Series
- John Deere 9RX Tractors

These tractors incorporate advanced technology like GPS-guided precision farming, eco-friendly engines, and ergonomic designs.

Key Features and Innovations in John Deere Tractors

Engine Technology

John Deere tractors utilize robust diesel engines that balance power with fuel efficiency. The Big Book discusses innovations such as turbocharging, emissions control, and electronic fuel injection.

Hydraulic Systems

Advanced hydraulic systems enable smooth operation of attachments and implements, increasing productivity and reducing operator fatigue.

Automation and Precision Farming

Modern John Deere tractors are equipped with GPS and telematics systems that facilitate precision agriculture?optimized planting, fertilizing, and harvesting.

Comfort and Safety Features

The Big Book emphasizes features like climate-controlled cabs, ergonomic controls, and safety sensors that enhance operator experience and safety.

Collecting and Restoring John Deere Tractors

For enthusiasts and collectors, the Big Book offers valuable guidance on:

- Identifying authentic models

- Restoration tips and resources
- Where to find vintage parts
- Participating in tractor shows and clubs

Restoring vintage John Deere tractors can be a rewarding hobby, and the Big Book provides practical advice to help enthusiasts preserve these iconic machines.

Importance of the John Deere Big Book of Tractors in the Industry

This publication is more than just a catalog; it is a cultural artifact that documents the evolution of agricultural machinery. It helps:

- Educate new generations about farming history
- Preserve the legacy of John Deere's innovations
- Support the collector community with authentic information
- Inspire future technological developments in agriculture

By celebrating the legacy of John Deere tractors, the Big Book fosters appreciation and understanding among farmers, hobbyists, and industry professionals alike.

Where to Find the John Deere Big Book of Tractors

The book is available through various channels:

- Official John Deere dealerships
- Online bookstores and marketplaces
- Specialty agricultural and machinery events
- Libraries and educational institutions

Whether purchasing a new copy or browsing used editions, the Big Book is a treasure trove of information and visuals.

Conclusion

The **john deere big book of tractors** stands as a comprehensive tribute to one of the most influential brands in agricultural history. It captures the technological innovations, historical milestones, and cultural significance of John Deere tractors, making it an invaluable resource for enthusiasts, collectors, and industry professionals. From vintage classics to cutting-edge machinery, this book showcases the enduring legacy of John Deere and its commitment to advancing farming

technology for generations to come.

John Deere Big Book of Tractors: A Comprehensive Look at the Iconic Agricultural Machinery

The John Deere Big Book of Tractors stands as a definitive resource for enthusiasts, farmers, collectors, and industry professionals seeking in-depth knowledge about one of the most recognizable brands in agricultural machinery. With a history stretching back over a century, John Deere has become synonymous with durability, innovation, and efficiency in farming equipment. This article explores the origins, evolution, and significance of John Deere tractors, delving into the details that make the Big Book an essential reference for anyone interested in agricultural technology.

The Origins of John Deere and Its Tractor Legacy

Early Beginnings: The Birth of a Farming Pioneer

John Deere, founded in 1837 by blacksmith and inventor John Deere, initially gained fame for producing steel plows designed to work efficiently in the tough Midwestern soils. As farming techniques evolved, so did the company's product line, eventually branching into mechanized equipment to meet the demands of larger-scale agriculture.

By the early 20th century, John Deere began experimenting with tractors, recognizing their potential to revolutionize farming practices. The company's first tractor, introduced in the 1920s, marked a significant milestone, combining innovative engineering with practical design.

The Transition to Tractors: From Plows to Power

The 1930s and 1940s saw John Deere expanding its tractor lineup, introducing models that incorporated advancements such as diesel engines, improved hydraulics, and ergonomic features. These innovations helped farmers increase productivity and reduce labor costs.

The Big Book of Tractors chronicles these early models, illustrating how John Deere's engineering philosophy centered on durability, ease of maintenance, and versatility. Classic models like the Model D and Model B became staples in farms across North America, setting the stage for future innovations.

The Evolution of John Deere Tractors: Key Models and Innovations

The Post-War Boom: 1940s-1960s

Post-World War II, the agricultural sector experienced rapid growth, and John Deere responded with

a series of new tractor models that emphasized power, comfort, and technological advancements.

Notable Models:

- Model A and Model B: Compact, versatile, and widely used for small to medium farms.
- Model 70 and 80 Series: Larger, more powerful tractors designed for heavier tasks.
- The "Red and Green" Era: The transition period when John Deere's signature green color became iconic.

Innovations:

- Introduction of hydraulic systems that improved implement control.
- Development of three-point hitch technology, increasing attachment versatility.
- Introduction of diesel engines that increased fuel efficiency and torque.

The Modern Era: 1970s-Present

From the 1970s onward, John Deere continued to innovate with the integration of electronics, automation, and precision farming technologies.

Key Developments:

- Electronic Controls: Allowing for better engine management, diagnostics, and operator comfort.
- Turbocharged Engines: Providing increased power and efficiency.
- Hydrostatic Transmissions: Offering smoother operation and easier control.
- Precision Agriculture: Incorporation of GPS-guided systems, data collection, and variable rate technology.

The Big Book details these technological leaps, showcasing how John Deere tractors have become increasingly sophisticated while maintaining their rugged reliability.

The Design Philosophy Behind John Deere Tractors

Durability and Reliability

One of the hallmarks of John Deere tractors, emphasized throughout the Big Book, is their robust construction. From heavy-duty frames to high-quality components, each tractor is built to withstand the rigors of demanding agricultural work.

Operator Comfort and Ergonomics

Over the decades, John Deere has prioritized operator comfort, incorporating features such as adjustable seats, climate control, intuitive controls, and visibility enhancements. The evolution of cab design reflects a deep understanding of operator needs, reducing fatigue and improving productivity.

Versatility and Attachments

John Deere tractors are renowned for their adaptability. The Big Book highlights the wide array of attachments and implements compatible with various models, enabling farmers to perform multiple tasks?from plowing and planting to harvesting and material handling.

Collectibility and Heritage: The Cultural Impact of John Deere Tractors

Classic Models and Collectors' Items

Many early John Deere tractor models have become collectors' items, celebrated for their design and historical significance. The Big Book features detailed specifications, photographs, and stories behind these vintage machines, illustrating their place in agricultural history.

The Green Tractor Culture

John Deere's distinctive green color and iconic logo have cultivated a strong brand identity. The Big Book explores how this branding has fostered a sense of community among farmers and enthusiasts, creating a cultural phenomenon that extends beyond machinery.

John Deere in Popular Media

From television commercials to tractor pulls and vintage shows, John Deere tractors have embedded themselves in popular culture. The Big Book documents these cultural touchpoints, emphasizing the brand's influence beyond the farm.

The Future of John Deere Tractors: Innovation and Sustainability

Embracing Precision and Automation

The trajectory of John Deere's technological development points towards greater automation, autonomous tractors, and AI-driven systems. The Big Book discusses ongoing projects and prototypes aimed at reducing labor costs and increasing yield accuracy.

Sustainability Initiatives

Recognizing the environmental impact of agriculture, John Deere is investing in electric-powered tractors, biofuel compatibility, and energy-efficient systems. The pursuit of sustainable farming solutions is a recurring theme in the Big Book, reflecting the company's commitment to responsible innovation.

Challenges and Opportunities

The agricultural machinery industry faces challenges such as fluctuating commodity prices, trade policies, and climate change. John Deere's strategic focus on R&D and digital transformation positions it to meet these challenges head-on, ensuring continued relevance and leadership.

Why the Big Book of Tractors Is an Essential Resource

Comprehensive Historical Record

The Big Book provides a chronological overview of John Deere tractor models, capturing the technological, design, and market shifts over the decades. This historical perspective is invaluable for collectors, historians, and enthusiasts.

Technical Specifications and Engineering Insights

For those interested in the mechanical aspects, the book offers detailed technical data, diagrams, and explanations of engineering innovations. It enables readers to understand how each model was designed to address specific farming needs.

Visual and Anecdotal Content

Richly illustrated with photographs, advertisements, and firsthand stories, the Big Book blends technical data with cultural and historical narratives, making it engaging and informative.

Practical Information for Owners and Collectors

The book includes maintenance tips, restoration advice, and identification guides, making it a useful resource for owners and restorers of vintage John Deere tractors.

Conclusion

The John Deere Big Book of Tractors is more than just a catalog of machines; it is a testament to the ingenuity, resilience, and evolution of agricultural technology. From the early steel plows to today's precision-guided autonomous tractors, John Deere has continually pushed the boundaries of innovation while maintaining a steadfast commitment to quality. Whether you are a farmer,

collector, historian, or simply an enthusiast, the Big Book offers a wealth of knowledge and inspiration, celebrating a legacy that has shaped farming practices worldwide for over a century.

As agriculture faces new challenges and opportunities, John Deere's ongoing innovations promise to keep the green tractors rolling into a sustainable future—an enduring symbol of progress, durability, and American ingenuity.

Question What is the 'John Deere Big Book of Tractors' about? The 'John Deere Big Book of Tractors' is a comprehensive guide showcasing the history, models, and features of John Deere tractors, aimed at enthusiasts and collectors. **Is the 'John Deere Big Book of Tractors' suitable for children?** Yes, the book is designed to be engaging for children, featuring colorful illustrations and interesting facts about tractors, making it a great educational resource. **Does the book include vintage and modern John Deere tractors?** Absolutely, the book covers a wide range of John Deere tractors from vintage models to the latest innovations, providing a complete overview. **Who is the author of the 'John Deere Big Book of Tractors'?** The book is authored by a team of tractor enthusiasts and experts from John Deere, ensuring accurate and detailed information. **Are there any collectible or rare tractors featured in the book?** Yes, the book highlights several rare and collectible John Deere tractors, appealing to collectors and history buffs alike. **Can I learn about the technological advancements in John Deere tractors from this book?** Yes, the book covers the evolution of tractor technology used by John Deere, including innovations in design and functionality. **Is the 'John Deere Big Book of Tractors' available in digital format?** Yes, the book is available in both hardcover and digital formats, making it accessible to a wide audience. **Does the book include informational diagrams and specifications of tractors?** Yes, it features detailed diagrams, specifications, and technical information to help readers understand tractor components. **Is the 'John Deere Big Book of Tractors' suitable as a gift for tractor enthusiasts?** Absolutely, it's a popular gift choice for tractor fans, collectors, and anyone interested in agricultural machinery. **Where can I purchase the 'John Deere Big Book of Tractors'?** The book is available at major bookstores, online retailers like Amazon, and through John Deere's official website.

Related keywords: John Deere tractors, tractor guide, agricultural machinery, farming equipment, tractor specifications, tractor models, tractor maintenance, tractor parts, farm machinery catalog, tractor history

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