

JOHN DEERE DOZER 450C PARTS MANUAL Textbook

john deere dozer 450c parts manual is an essential resource for operators, technicians, and maintenance professionals seeking detailed information about replacement parts and maintenance procedures for the John Deere 450C Dozer. Whether you're performing routine maintenance, troubleshooting, or complete repairs, having access to an accurate parts manual ensures you can identify the correct components quickly, order genuine parts, and restore your equipment to optimal performance. In this article, we will explore the significance of the John Deere 450C Dozer Parts Manual, how to access it, and key considerations for maintenance and repairs.

Understanding the John Deere 450C Dozer

Overview of the John Deere 450C

The John Deere 450C is a reliable and powerful crawler dozer designed for heavy-duty construction, land clearing, and excavation tasks. Known for its durability, versatility, and robust performance, the 450C has been a mainstay in the equipment fleets of construction companies and land developers.

Key features of the John Deere 450C include:

- Engine: Turbocharged diesel engine providing substantial horsepower
- Blade: Heavy-duty blade suitable for pushing large quantities of soil, gravel, or debris
- Track System: Durable tracks for stability and traction in various terrains
- Hydraulic System: Advanced hydraulics for precise control and efficiency

Proper maintenance and timely replacement of parts are crucial to maintaining its performance and extending the lifespan of the machine.

What is a John Deere Dozer 450C Parts Manual?

Definition and Purpose

A John Deere dozer 450C parts manual is a comprehensive guide that details every component, assembly, and sub-assembly of the machine. It includes exploded diagrams, part numbers, descriptions, and sometimes instructions for installation or replacement.

The manual serves several critical purposes:

- Identifying correct replacement parts
- Understanding assembly and disassembly procedures
- Facilitating accurate ordering of parts
- Ensuring maintenance and repairs adhere to manufacturer specifications

Benefits of Using the Parts Manual

Using the official parts manual offers multiple advantages:

- Ensures compatibility of parts, reducing downtime caused by incorrect components
- Helps maintain warranty compliance
- Provides detailed visual guides for complex assemblies
- Supports preventive maintenance strategies
- Reduces repair costs by avoiding errors and rework

Key Sections of the John Deere 450C Parts Manual

Engine and Powertrain

This section covers engine components, including cylinders, pistons, crankshafts, and fuel systems. It also details transmission and drive components.

Undercarriage and Tracks

Includes parts related to the tracks, rollers, sprockets, idlers, and tensioning systems.

Hydraulic System

Details hydraulic pumps, cylinders, valves, hoses, and fittings necessary for blade and ripper movements.

Blade and Ripper Assembly

Provides diagrams and part numbers for the cutting edge, side plates, and ripper components.

Electrical System

Covers wiring harnesses, switches, sensors, and control modules.

Cab and Controls

Includes seats, dashboards, levers, and control panels.

Accessing the John Deere 450C Parts Manual

Official Sources

The most reliable way to obtain the parts manual is through official John Deere channels:

- John Deere's authorized dealerships
- Official John Deere website and customer support portals
- Authorized parts distributors

Digital vs. Printed Manuals

Modern users often prefer digital manuals for their convenience:

- Easy searchability and navigation
- Instant access via PDFs or online portals
- Ability to view exploded diagrams and detailed illustrations

Printed manuals, however, may be preferred by those who like physical copies during onsite repairs.

Using the Manual Effectively

To maximize the utility of the parts manual:

- Identify the exact model and serial number of your 450C dozer
- Locate the relevant section based on the component you need
- Use diagrams and part numbers to verify the correct replacement parts
- Cross-reference part numbers before placing orders

Importance of Using Genuine Parts

Advantages of OEM Parts

Original Equipment Manufacturer (OEM) parts are designed specifically for your John Deere 450C and offer several benefits:

- Guaranteed compatibility and durability
- Maintaining the integrity and performance of your equipment
- Supporting warranty coverage
- Ensuring safety standards are met

Risks of Using Aftermarket Parts

While aftermarket parts may be cheaper, they often lack the quality and precision of OEM components, leading to:

- Reduced lifespan of parts
- Potential damage to other components
- Increased downtime and repair costs
- Voiding of manufacturer warranties

Maintenance Tips Using the Parts Manual

Regular Inspection and Preventive Maintenance

Use the parts manual to:

- Identify wear points and replace parts proactively
- Schedule routine checks for hydraulic hoses, filters, and belts
- Keep detailed records of part replacements

Troubleshooting and Repair

When issues arise:

- Consult the manual for detailed diagrams
- Verify part numbers before ordering replacements
- Follow assembly instructions to avoid incorrect installation

Conclusion

Having a comprehensive **John Deere dozer 450C parts manual** is indispensable for maintaining the efficiency, safety, and longevity of your equipment. It empowers operators and technicians with the knowledge needed to make informed decisions regarding repairs, part replacements, and routine maintenance. Always ensure you access authentic manuals and genuine parts to keep your John Deere 450C dozer operating at peak performance. Proper utilization of the parts manual not only minimizes downtime but also protects your investment, ensuring your heavy machinery continues to serve your construction or land development projects effectively for years to come.

John Deere Dozer 450C Parts Manual: A Comprehensive Guide for Maintenance, Repairs, and Parts Identification

When it comes to heavy-duty construction and earthmoving equipment, having access to a detailed parts manual is essential for ensuring optimal performance, longevity, and ease of repairs. The John Deere Dozer 450C Parts Manual serves as an invaluable resource for owners, mechanics, and fleet managers alike, providing detailed diagrams, part numbers, and specifications that streamline maintenance processes. Whether you're conducting routine inspections, replacing worn components, or troubleshooting complex issues, understanding how to utilize the parts manual effectively can save you time and money while keeping your equipment in peak condition.

Understanding the Importance of the John Deere Dozer 450C Parts Manual

The John Deere Dozer 450C Parts Manual is designed to be a comprehensive reference guide. It offers detailed illustrations and descriptions of every component—from engine parts and hydraulic systems to undercarriage elements and electrical components. Having this manual on hand ensures that you can:

- Identify exact replacement parts with accurate part numbers
- Understand how components fit and function within the machine
- Facilitate quick ordering of parts to minimize downtime
- Perform precise repairs and maintenance
- Avoid ordering incorrect or incompatible parts

In addition, the parts manual often includes assembly diagrams, exploded views, and maintenance tips, making it an essential tool for both seasoned technicians and novice operators.

Overview of the John Deere Dozer 450C

Before diving into parts specifics, it's helpful to understand the key features and specifications of the John Deere 450C dozer:

- Engine: John Deere PowerTech diesel engine, known for durability and power
- Operating weight: Approximately 25,000 lbs, depending on configuration
- Blade capacity: Varies with model; commonly a general-purpose blade
- Hydraulic system: Designed for efficient operation of the blade, ripper, and other attachments
- Undercarriage: Heavy-duty components for stability and mobility on rough terrain

Knowing these features helps contextualize the parts you'll find in the manual and guides troubleshooting efforts.

Key Sections Covered in the Parts Manual

The John Deere Dozer 450C Parts Manual is typically organized into sections based on system or component type. Here's an overview of the main sections you might find:

- Engine Components

Includes parts such as pistons, cylinders, valves, fuel injectors, and cooling systems.

- Hydraulic System

Covers pumps, valves, hoses, cylinders, and filters essential for blade and attachment movement.

- Undercarriage and Track Assemblies

Details tracks, rollers, idlers, sprockets, and related components.

- Electrical System

Includes wiring harnesses, switches, sensors, and control modules.

- Final Drive & Transmission

Encompasses gears, shafts, clutches, and related parts responsible for power transmission.

- Blade and Attachments

Provides parts lists for the blade, ripper, and other implement components.

How to Use the Parts Manual Effectively

To maximize the value of the John Deere Dozer 450C Parts Manual, consider these tips:

- Familiarize Yourself with Diagrams: Exploded views and diagrams help visualize the assembly and relationship of parts.
- Identify Part Numbers Carefully: Cross-reference part numbers with the manual before ordering to avoid mistakes.
- Understand Part Descriptions: Read descriptions thoroughly to ensure compatibility.
- Check Serial Number Compatibility: Some parts may vary depending on the machine's serial number or production date.
- Keep the Manual Accessible: Store the manual in a convenient location for quick reference during repairs or ordering.

Commonly Replaced Parts in the John Deere Dozer 450C

Understanding the most frequently replaced components can help prioritize maintenance schedules and stock essential parts:

- Filters: Fuel, oil, hydraulic, and air filters to maintain engine and hydraulic health.
- Hydraulic Hoses and Seals: Prevent leaks and ensure hydraulic pressure integrity.
- Track Components: Track chains, rollers, and sprockets are prone to wear.
- Engine Parts: Including belts, pistons, and cooling system components.
- Electrical Components: Sensors, switches, and wiring harnesses for reliable operation.
- Undercarriage Components: Idlers, rollers, and track shoes which experience heavy wear.

Procuring Parts Using the Manual

When ordering parts based on the John Deere Dozer 450C Parts Manual, follow these steps:

- Identify the Part: Use diagrams and descriptions to locate the exact part.
- Note the Part Number: Write down the specific part number for accuracy.
- Verify Compatibility: Confirm the part matches your machine's serial number.
- Choose a Supplier: Contact authorized John Deere dealers or reputable aftermarket suppliers.
- Order in Advance: Maintain an inventory of critical parts to reduce downtime.

Maintenance Tips for Longevity and Performance

Utilizing the parts manual is just one aspect of effective maintenance. Consider these additional tips:

- Regular Inspection: Check critical components regularly for signs of wear or damage.
- Follow Service Intervals: Adhere to manufacturer-recommended schedules for oil changes, filter replacements, and inspections.
- Keep Spare Parts on Hand: Stock essential parts identified through the manual for quick replacements.
- Use Genuine Parts: Always prefer OEM (Original Equipment Manufacturer) parts for compatibility and durability.
- Record Maintenance Activities: Keep detailed logs to track parts replaced and schedule future maintenance.

Conclusion: Why the John Deere Dozer 450C Parts Manual is Indispensable

The John Deere Dozer 450C Parts Manual is more than just a catalog; it's a vital resource that empowers operators, mechanics, and fleet managers to maintain their equipment efficiently. With detailed diagrams, accurate part numbers, and comprehensive descriptions, it simplifies the complex process of parts identification and replacement. Proper utilization of this manual can lead to reduced downtime, lower repair costs, and extended service life for your dozer.

Investing time to familiarize yourself with the manual and incorporating its insights into your maintenance routine will ensure your John Deere 450C remains a reliable workhorse, capable of tackling demanding jobs with confidence and precision. Whether you're performing routine maintenance or tackling major repairs, this manual is your trusted guide to keeping your equipment in top shape.

Question Where can I find the official parts manual for the John Deere Dozer 450C? You can find the official parts manual for the John Deere Dozer 450C on the official John Deere website or through authorized John Deere dealerships and parts distributors. **What parts are included in the John Deere Dozer 450C parts manual?** The parts manual includes detailed diagrams and listings for engine components, undercarriage, hydraulic systems, electrical parts, and other essential components of the Dozer 450C. **Is the John Deere Dozer 450C parts manual available in digital format?** Yes, the parts manual for the John Deere Dozer 450C is available in digital PDF format through authorized dealers, online parts catalogs, and sometimes on third-party machinery manual websites. **How do I identify the correct part number for replacement parts in the 450C manual?** You can use the detailed diagrams and part descriptions in the manual to locate the correct part numbers, which are typically listed alongside illustrations for easy identification. **Can I use the John Deere 450C parts manual to perform maintenance and repairs myself?** Yes, the manual provides

detailed part diagrams and part numbers that can assist you in ordering replacements and understanding component locations for maintenance or repairs. Are there any common issues addressed in the John Deere 450C parts manual? While the manual primarily provides parts information, it also highlights common wear parts and replacement intervals for components like tracks, blades, and hydraulic parts. How often should I consult the parts manual for my John Deere Dozer 450C? You should consult the parts manual whenever you need to replace or repair parts, or to ensure you're ordering the correct components during maintenance or part upgrades. Is the John Deere Dozer 450C parts manual compatible with other John Deere dozer models? No, the parts manual is specific to the 450C model. For other models, you should refer to their respective parts manuals to ensure compatibility and accuracy.

Related keywords: john deere dozer 450c parts, dozer parts manual, john deere 450c parts catalog, dozer repair parts, john deere bulldozer parts, 450c dozer maintenance, dozer spare parts manual, john deere equipment parts, bulldozer service manual, heavy machinery parts manual

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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