ingersoll rand t30 manual

ingersoll rand t30 manual serves as an essential resource for operators, technicians, and maintenance personnel who work with the Ingersoll Rand T30 air compressor. This manual provides comprehensive information on the operation, maintenance, troubleshooting, and safety guidelines necessary to ensure optimal performance and longevity of the equipment. Understanding the details within the Ingersoll Rand T30 manual is crucial for maximizing efficiency and preventing costly downtime. This article delves into the key aspects covered by the manual, including specifications, installation procedures, routine upkeep, and common troubleshooting techniques. Furthermore, the discussion includes tips on safety precautions and parts replacement to maintain the compressor’s reliability. By exploring these topics, users can fully leverage the capabilities of their Ingersoll Rand T30 compressor. The following table of contents outlines the main sections addressed in this article.

- Overview of the Ingersoll Rand T30 Compressor
- Installation and Setup Guidelines
- Operation Instructions
- Maintenance and Servicing Procedures
- Troubleshooting Common Issues
- Safety Precautions and Best Practices

Overview of the Ingersoll Rand T30 Compressor

The Ingersoll Rand T30 compressor is a robust, durable piece of industrial equipment designed for a wide range of applications requiring reliable compressed air supply. It is known for its compact design, energy efficiency, and ease of maintenance. The compressor typically features a rotary screw mechanism, which ensures continuous airflow and reduced noise levels compared to piston-driven models.

Key Specifications

Understanding the technical specifications is vital for proper usage and maintenance. The Ingersoll Rand T30 manual outlines the following important parameters:

- Rated power output: approximately 30 horsepower
- Maximum operating pressure: 125 psi (pounds per square inch)
- Air delivery capacity: around 76 cubic feet per minute (CFM)
- Voltage requirements: usually 230V or 460V depending on the model
- Dimensions and weight: compact footprint suited for industrial environments

Design Features

The compressor integrates advanced features such as a high-efficiency airend, optimized cooling systems, and user-friendly control panels. These design elements contribute to increased lifespan and reduced energy consumption. The manual also highlights modular components, which simplify repair and replacement tasks.

Installation and Setup Guidelines

Proper installation is critical to ensuring the Ingersoll Rand T30 compressor operates safely and efficiently. The manual provides detailed instructions to guide the installation process.

Site Preparation

The installation site must meet specific criteria to support the compressor’s performance. The manual recommends a well-ventilated, dry, and clean environment with sufficient space around the unit for maintenance access. Floor stability and vibration isolation are also emphasized to minimize operational noise and mechanical wear.

Electrical and Piping Connections

Electrical wiring should comply with local codes and the manufacturer’s specifications to prevent hazards and equipment damage. The manual details the correct voltage and amperage settings, grounding procedures, and control wiring diagrams. Additionally, piping connections for compressed air output must be secure and leak-free, with proper drainage systems to handle condensate.

Initial Startup Procedure

Before starting the compressor, the manual advises conducting a thorough inspection to verify all connections and components are correctly installed. The initial startup involves checking oil levels, ensuring filters are clean, and confirming that safety devices are operational. A step-by-step startup checklist helps prevent common mistakes during this critical phase.

Operation Instructions

To maximize performance, operators must follow the operational guidelines outlined in the Ingersoll Rand T30 manual. Proper operation minimizes wear and prevents premature failures.

Control Panel Overview

The compressor’s control panel features various indicators and controls, including power switches, pressure gauges, and warning lights. The manual explains each element’s function and how to interpret readings to monitor system health.

Starting and Stopping Procedures

The manual specifies the correct sequence for starting and shutting down the compressor to avoid mechanical stress. This includes allowing the oil system to circulate before load engagement and following a cooldown period before shutdown.

Operating Conditions

Operating the compressor within recommended pressure and temperature ranges is essential. The manual advises against exceeding maximum pressure limits and stresses the importance of maintaining ambient temperature conditions to safeguard internal components.

Maintenance and Servicing Procedures

Regular maintenance is paramount to sustaining the Ingersoll Rand T30 compressor’s reliability and efficiency. The manual provides a detailed maintenance schedule and step-by-step servicing instructions.

Routine Maintenance Tasks

Routine tasks include inspecting and replacing air filters, checking and changing compressor oil, cleaning the cooling system, and tightening bolts and fittings. The manual specifies recommended intervals for each task based on operating hours.

Lubrication and Oil Management

Proper lubrication extends component life and prevents overheating. The manual details the type of lubricant to use, oil change frequency, and procedures for oil level checks. It also explains how to dispose of used oil responsibly.

Filter Replacement

Air intake and oil filters must be replaced regularly to maintain air quality and protect the compressor’s internal mechanisms. The manual describes how to safely remove and install filters, emphasizing the importance of using genuine parts.

Scheduled Inspections

Periodic comprehensive inspections are recommended to identify wear, leaks, or other issues early. The manual outlines inspection checklists covering electrical components, belts, hoses, and safety devices.

Troubleshooting Common Issues

The Ingersoll Rand T30 manual includes a troubleshooting section to assist users in diagnosing and resolving frequent problems that may arise during operation.

Pressure Fluctuations

Pressure inconsistencies can result from leaks, faulty pressure switches, or clogged filters. The manual guides users through systematic checks to identify the root cause and correct it.

Overheating

Overheating issues often stem from inadequate cooling or lubrication problems. The manual suggests inspecting the cooling fan, cleaning heat

exchangers, and verifying oil levels to address overheating concerns.

Unusual Noises and Vibrations

Noise or vibration may indicate worn bearings, misaligned components, or loose fittings. The manual recommends specific diagnostic steps and corrective actions to restore normal operation.

Failure to Start

If the compressor fails to start, possible causes include electrical faults, motor issues, or safety interlocks. The manual provides a checklist for electrical inspections and safety device resets.

Basic Troubleshooting Checklist

- Verify power supply and circuit breakers
- Check oil and coolant levels
- Inspect air filters and intake valves
- Examine pressure sensors and switches
- Listen for abnormal sounds during startup

Safety Precautions and Best Practices

Ensuring operator safety and equipment protection is a key focus of the Ingersoll Rand T30 manual. Strict adherence to safety protocols reduces the risk of injury and equipment damage.

Personal Protective Equipment (PPE)

The manual advises the use of appropriate PPE, including safety glasses, gloves, and hearing protection, especially during maintenance or inspection tasks.

Safe Handling and Operation

Users must avoid bypassing safety devices, perform lockout/tagout procedures

during servicing, and follow manufacturer recommendations for pressure limits and operating conditions. Clear warnings about potential hazards, such as hot surfaces and high-pressure air, are detailed in the manual.

Environmental Considerations

The manual emphasizes the importance of proper disposal of lubricants, filters, and other consumables to minimize environmental impact. It also recommends using sound-attenuating enclosures or barriers to reduce noise pollution.

Emergency Procedures

Instructions for responding to emergencies such as compressor failure, leaks, or fire are included. The manual outlines immediate actions to take and contact protocols for professional assistance.

Frequently Asked Questions

What is the Ingersoll Rand T30 manual used for?

The Ingersoll Rand T30 manual provides detailed instructions on the operation, maintenance, troubleshooting, and specifications of the T30 air compressor model to ensure proper and safe usage.

Where can I download the Ingersoll Rand T30 manual?

You can download the Ingersoll Rand T30 manual from the official Ingersoll Rand website under their support or resources section, or from authorized distributors and reputable manual repository websites.

How do I perform routine maintenance on the Ingersoll Rand T30 according to the manual?

The manual recommends routine maintenance such as checking and replacing air filters, draining moisture from the tank, inspecting belts, lubricating moving parts, and monitoring pressure levels to keep the T30 compressor running efficiently.

What safety precautions does the Ingersoll Rand T30 manual highlight?

The manual emphasizes safety precautions including wearing protective gear, ensuring proper ventilation, not exceeding recommended pressure limits,

disconnecting power before servicing, and following proper lockout/tagout procedures.

How do I troubleshoot common issues with the Ingersoll Rand T30 using the manual?

The manual includes troubleshooting steps such as checking power supply if the unit doesn't start, inspecting air filters for clogging if performance is low, verifying pressure settings, and examining hoses and connections for leaks or damage.

Does the Ingersoll Rand T30 manual provide information on part replacement?

Yes, the manual contains detailed diagrams and part numbers to assist users in identifying and replacing components such as filters, belts, valves, and other wear parts to maintain optimal compressor function.

Additional Resources

1. *Ingersoll Rand T30 Compressor Maintenance Guide*
This comprehensive manual provides detailed instructions on the maintenance and troubleshooting of the Ingersoll Rand T30 air compressor. It covers routine inspections, part replacements, and preventive maintenance tips to ensure optimal performance. Ideal for both beginners and experienced technicians, this guide helps extend the life of your compressor.

2. *Operating Your Ingersoll Rand T30: A Step-by-Step Manual*
Designed for operators, this book walks you through the proper startup, operation, and shutdown procedures for the T30 compressor. It includes safety guidelines, control panel explanations, and efficiency tips to maximize productivity. The easy-to-follow format makes it accessible for first-time users.

3. *Ingersoll Rand T30 Troubleshooting Handbook*
This troubleshooting manual focuses on diagnosing and fixing common issues encountered with the T30 compressor. It features flowcharts, symptom-based guides, and recommended solutions to minimize downtime. Technicians will find this resource invaluable for quick repairs and system diagnostics.

4. *Parts and Components of the Ingersoll Rand T30 Compressor*
A detailed reference book that catalogs all parts and components of the T30 model, including exploded diagrams and part numbers. It is an essential resource for ordering replacements and understanding the internal workings of the compressor. The book also provides tips on part compatibility and installation.

5. *Ingersoll Rand T30 Compressor Installation Manual*

This manual covers the proper installation procedures for the T30 compressor, from site preparation to final setup. It includes guidelines on electrical connections, piping, and environmental considerations. Following this manual ensures safe and efficient installation to avoid operational issues.

6. *Air Compressor Technology: Focus on Ingersoll Rand T30*
An in-depth technical book exploring the engineering principles behind the T30 air compressor. It explains compressor mechanics, thermodynamics, and design features unique to Ingersoll Rand's T30 model. This book is suited for engineers and technical enthusiasts interested in compressor technology.

7. *Preventive Maintenance Strategies for Ingersoll Rand T30*
This book emphasizes preventive maintenance schedules and best practices for keeping the T30 compressor in top condition. It includes checklists, maintenance logs, and lubrication guidelines. By following these strategies, users can reduce unexpected failures and costly repairs.

8. *Ingersoll Rand T30 Compressor User Guide for Industrial Applications*
Targeted at industrial users, this guide covers the application of the T30 compressor in various industrial settings. It discusses load management, energy efficiency, and integration with other machinery. Case studies and practical tips help optimize compressor use in demanding environments.

9. *Repair and Overhaul Manual for Ingersoll Rand T30 Air Compressors*
A detailed manual for technicians tasked with repairing and overhauling the T30 compressor. It provides step-by-step repair instructions, tool requirements, and safety precautions. This manual is an essential resource for restoring compressors to like-new condition after extensive use.

Ingersoll Rand T30 Manual

Ingersoll Rand T30 Manual: A Comprehensive Guide

Ebook Title: Mastering the Ingersoll Rand T30: A Complete User and Maintenance Guide

Outline:

Introduction: Understanding the Ingersoll Rand T30 and its applications.
Chapter 1: T30 Specifications and Components: Detailed breakdown of the air compressor's technical specifications and individual parts.
Chapter 2: Installation and Setup: Step-by-step guide on properly installing and setting up the T30 air compressor.

Chapter 3: Operation and Maintenance: Comprehensive instructions on safe and efficient operation, including routine maintenance procedures.
Chapter 4: Troubleshooting Common Problems: Identifying and resolving frequently encountered issues with the T30.
Chapter 5: Safety Precautions and Regulations: Emphasizing safety protocols and adherence to relevant industry regulations.
Chapter 6: Advanced Maintenance and Repair: Guidance on more complex maintenance tasks and potential repairs.
Chapter 7: Extending the Lifespan of your T30: Tips and techniques for maximizing the longevity and performance of the air compressor.
Conclusion: Recap of key takeaways and resources for further assistance.

Ingersoll Rand T30 Manual: A Comprehensive Guide

Introduction: Understanding the Ingersoll Rand T30 and its Applications

The Ingersoll Rand T30 air compressor is a powerful and versatile piece of equipment frequently used in various industries and applications. From construction and manufacturing to automotive repair and general maintenance, its reliability and performance make it a valuable asset. This comprehensive guide aims to equip users with the knowledge and skills necessary for safe, efficient, and effective operation and maintenance of the Ingersoll Rand T30. Understanding the intricacies of this machine is crucial not only for maximizing its lifespan but also for ensuring safety and preventing costly downtime. This manual delves into every aspect of the T30, from initial setup to advanced troubleshooting, providing a complete resource for both novice and experienced users.

Chapter 1: T30 Specifications and Components: A Detailed Breakdown

Before operating the Ingersoll Rand T30, it's vital to understand its key specifications and the function of its individual components. This chapter provides a detailed overview, including:

Technical Specifications: This section will list the compressor's horsepower, tank capacity, pressure range (PSI), CFM output at various pressures, voltage requirements, and dimensions. Clear and concise tables will be used for easy reference. Understanding these specifications is crucial for selecting appropriate applications and avoiding misuse.

Component Identification: A comprehensive visual guide (with labeled diagrams) will be included, identifying each part of the T30. This includes the motor, pump, pressure switch, pressure relief valve, air tank, unloader valve, intake filter, and safety mechanisms. Knowing the location and

function of each component is essential for maintenance and troubleshooting.

Understanding the Air Compression Cycle: This section explains the fundamental principles of air compression within the T30, detailing the stages of intake, compression, cooling, and discharge. This understanding helps in diagnosing issues and appreciating the mechanics of the machine.

Chapter 2: Installation and Setup: A Step-by-Step Guide

Proper installation is critical for the safe and efficient operation of the Ingersoll Rand T30. This chapter outlines the steps involved, emphasizing safety at each stage:

Site Preparation: This section details the requirements for a suitable installation location, including sufficient ventilation, stable ground, and proximity to power sources. It also covers safety considerations such as avoiding flammable materials and ensuring adequate clearance around the compressor.

Connecting Power: Detailed instructions on correctly connecting the T30 to the power supply, including checking voltage compatibility and grounding requirements. Safety precautions regarding electrical hazards will be clearly stated.

Plumbing and Air Connections: This section guides the user through connecting air hoses and fittings to the T30, emphasizing the importance of using appropriate fittings and ensuring leak-free connections. Proper pressure testing after installation will be described.

Initial Startup: Step-by-step instructions for the initial start-up process, highlighting the procedures for priming the pump and verifying proper operation.

Chapter 3: Operation and Maintenance: Ensuring Optimal Performance

This chapter focuses on the day-to-day operation and routine maintenance of the Ingersoll Rand T30:

Safe Operating Procedures: This section covers crucial safety practices, including personal protective equipment (PPE) requirements, handling procedures, and emergency shutdown protocols. Emphasis will be placed on avoiding common hazards associated with compressed air systems.

Daily Inspection Checklist: A detailed checklist outlining the essential daily inspections to ensure the T30 is operating correctly and identify any potential issues early. This includes checking oil levels, pressure gauges, and listening for unusual sounds.

Routine Maintenance Schedule: A schedule outlining recommended routine maintenance tasks and their frequency. This will include tasks like oil changes, filter replacements, and lubrication of moving parts. This schedule will help users maximize the lifespan of the compressor.

Cleaning and Lubrication: Specific instructions on properly cleaning the compressor and lubricating essential components, including the correct types of lubricants to use.

Chapter 4: Troubleshooting Common Problems: Identifying and Resolving Issues

This chapter addresses common problems encountered with the Ingersoll Rand T30 and provides solutions:

Identifying Common Malfunctions: This section describes symptoms of common problems, such as low pressure, overheating, noisy operation, and failure to start.

Troubleshooting Steps: A systematic approach to troubleshooting will be provided for each identified malfunction, guiding users through a series of checks and potential solutions. Flowcharts or decision trees may be used to simplify the process.

When to Call a Professional: This section outlines situations where professional assistance is required, emphasizing safety concerns and the limits of DIY repairs.

Chapter 5: Safety Precautions and Regulations: Prioritizing Safety

This chapter emphasizes the importance of safety while working with the Ingersoll Rand T30:

Compressed Air Safety: Detailed information on the potential hazards associated with compressed air and the precautions required to mitigate those risks.

Personal Protective Equipment (PPE): A discussion on the types of PPE required when operating the T30, including safety glasses, hearing protection, and appropriate work gloves.

Compliance with Regulations: Information regarding relevant safety regulations and standards related to the operation and maintenance of compressed air systems.

Chapter 6: Advanced Maintenance and Repair: More Complex Tasks

This chapter delves into more advanced maintenance and repair tasks that may require specialized tools and knowledge:

Pump Repair and Replacement: Guidance on diagnosing and addressing issues with the air compressor pump, including potential repairs or replacement procedures.

Pressure Switch Adjustment and Replacement: Instructions on checking, adjusting, and potentially replacing the pressure switch.

Electrical System Troubleshooting: Guidance on troubleshooting potential electrical problems in the T30, but with a strong warning to avoid electrical work unless qualified.

Air Tank Inspection and Maintenance: Details on proper inspection of the air tank, including pressure testing and addressing potential issues.

Chapter 7: Extending the Lifespan of your T30: Maximizing Longevity

This chapter focuses on best practices for maximizing the lifespan and performance of your Ingersoll Rand T30:

Regular Maintenance: Reiterating the importance of a consistent maintenance schedule and its impact on the longevity of the compressor.

Proper Operating Procedures: Highlighting the importance of operating the T30 within its specified parameters to prevent premature wear and tear.

Environmental Considerations: Discussing the effects of operating the T30 in extreme temperatures or dusty environments and providing mitigation strategies.

Storage and Handling: Providing guidance on proper storage and handling practices to prevent damage and ensure the longevity of the compressor.

Conclusion: Key Takeaways and Resources

This manual provides a comprehensive guide to the Ingersoll Rand T30 air compressor. By following the instructions and recommendations within, users can ensure safe and efficient operation, extending the lifespan of their equipment and preventing costly repairs. Remember that safety should always be the top priority. For additional assistance, consult the Ingersoll Rand website or contact a qualified technician.

FAQs

1. What type of oil does the Ingersoll Rand T30 use? Consult your specific T30 model's manual for the recommended oil type and viscosity.

2. How often should I change the oil in my Ingersoll Rand T30? The frequency varies depending on usage; consult your manual for the recommended schedule.

3. What is the maximum operating pressure of the Ingersoll Rand T30? The maximum operating pressure is clearly stated on the compressor's data plate; never exceed this limit.

4. How do I troubleshoot a low-pressure issue with my Ingersoll Rand T30? Check the intake filter, pressure switch, and air tank for potential problems. See Chapter 4 for detailed troubleshooting steps.

5. What safety precautions should I take when operating the Ingersoll Rand T30? Always wear appropriate PPE, follow the safety instructions in the manual, and never exceed the maximum operating pressure.

6. Can I repair the Ingersoll Rand T30 myself? Some minor maintenance is possible, but for major repairs, contact a qualified service technician.

7. Where can I find replacement parts for my Ingersoll Rand T30? Contact Ingersoll Rand directly or an authorized dealer for replacement parts.

8. How do I properly dispose of the used oil from my Ingersoll Rand T30? Dispose of used oil according to local environmental regulations.

9. What is the warranty on the Ingersoll Rand T30? Warranty information is provided in the original purchase documentation.

Related Articles:

1. Ingersoll Rand T30 Parts Diagram: A detailed visual guide showing all the components of the Ingersoll Rand T30.
2. Ingersoll Rand T30 Troubleshooting Guide: An in-depth guide to resolving common issues with the Ingersoll Rand T30.
3. Ingersoll Rand T30 Maintenance Schedule: A comprehensive schedule outlining recommended maintenance tasks and frequencies.
4. Ingersoll Rand Air Compressor Oil Types: A guide to selecting the appropriate oil for various Ingersoll Rand air compressor models.
5. Understanding Ingersoll Rand Air Compressor Pressure Switches: Explains the function and troubleshooting of pressure switches.
6. Compressed Air Safety Regulations: An overview of safety standards and regulations related to compressed air systems.

7. Choosing the Right Ingersoll Rand Air Compressor: A guide to selecting the appropriate Ingersoll Rand air compressor for your needs.
8. Ingersoll Rand Air Compressor Repair and Maintenance: General guidance on repairing and maintaining various Ingersoll Rand compressors.
9. Proper Air Tool Usage with Ingersoll Rand Compressors: Best practices for safely and effectively using air tools with Ingersoll Rand compressors.

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Method B, and Method C.

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ingersoll rand t30 manual: Whispering Hearts Cassandra Chandler, 2016-01-05 If he can't defeat the ghosts of her past, she could become one of his. The Summer Park Psychics, Book 2 No one would guess Rachel Montgomery is plagued by a clairsentient talent she can never turn off. She can see and hear ghosts, and ever since she had to kill serial murderer Michael Angelo to save herself, it's only gotten worse. The ghosts of all Michael's victims are making Rachel's life hell. Worse, every ghost in Summer Park wants her to help them find peace. Desperate to get away, she grasps for a lifeline-even though the other end is held by a man she can never have. Dr. Garrett Wolfstrom has always suspected something is different about Rachel, but when she starts hanging poppets in all his windows, he makes one last-ditch effort to get the woman he's always loved to open up to him. Their mutual attraction reaches a flash point just as Rachel's ghosts catch up with her. If they can't find a way to trust each other with their hearts, the most dangerous ghost of all could find a way to settle the score-permanently. Warning: This book contains a sizzlingly sexy doctor, a psychic just coming into her power, and a passion hot enough to beat the summer heat.

ingersoll rand t30 manual: Between Earth and Heaven Jean-Louis Cohen, John Lautner, Frank Escher, 2008 One of the visionary architects of the twentieth century, John Lautner designed dramatically innovative buildings with a rare sensitivity to site, vista, and structure. Accompanying a full-scale exhibition on Lautner at Los Angeles's Hammer Museum, this is the first publication to comprehensively explore his work, including his apprenticeship with Frank Lloyd Wright and the cultural and geographical context of Los Angeles, through an intensive examination of the archives of the John Lautner Foundation. Although Lautner's dramatic houses are well-known, this is the first time his work has been seriously examined by scholars. Historian Nicholas Olsberg contributes an analysis of Lautner's evolution, providing social and cultural context. Architect Frank Escher covers the relationship between his experiments in structure and poetics of space, and Jean-Louis Cohen discusses Lautner's place in new design tendencies.This richly illustrated monograph includes previously unpublished sketches, drawings, construction images, and Lautner's own photographs to unveil the evolution, originality, and logic of his designs, focusing on the atmospheres and vistas they establish and the connections to landscape and sensory fluidity that mark their innovative spatial arguments.

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ingersoll rand t30 manual: The Rand/UCLA Appropriateness Method User's Manual Kathryn Fitch, Steven J. Bernstein, Maria Delores Aguilar, Mary S. Aguilar, Bernard Burnand, Pablo Lazaro, Juan Ramon LaCalle, 2001 Health systems should function in such a way that the amount of inappropriate care is minimized, while at the same time stinting as little as possible on appropriate and necessary care. The ability to determine and identify which care is overused and which is underused is essential to this functioning. To this end, the RAND/UCLA Appropriateness Method was developed in the 1980s. It has been further developed and refined in North America and, increasingly, in Europe. The rationale behind the method is that randomized clinical trials--the gold

standard for evidence-based medicine--are generally either not available or cannot provide evidence at a level of detail sufficient to apply to the wide range of patients seen in everyday clinical practice. Although robust scientific evidence about the benefits of many procedures is lacking, physicians must nonetheless make decisions every day about when to use them. Consequently, a method was developed that combined the best available scientific evidence with the collective judgment of experts to yield a statement regarding the appropriateness of performing a procedure at the level of patient-specific symptoms, medical history, and test results. This manual presents step-by-step guidelines for conceptualising, designing, and carrying out a study of the appropriateness of medical or surgical procedures (for either diagnosis or treatment) using the RAND/UCLA Appropriateness Method. The manual distills the experience of many researchers in North America and Europe and presents current (as of the year 2000) thinking on the subject. Although the manual is self-contained and complete, the authors do not recommend that those unfamiliar with the RAND/UCLA Appropriateness Method independently conduct an appropriateness study; instead, they suggest seeing one before doing one. To this end, contact information is provided to assist potential users of the method.

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