

trane voyager wiring diagram

trane voyager wiring diagram is an essential resource for HVAC technicians, electricians, and homeowners dealing with Trane Voyager heating and cooling systems. Understanding the wiring diagram helps in troubleshooting, repairing, and installing the system efficiently. This article provides a comprehensive guide on the Trane Voyager wiring diagram, covering its components, wiring color codes, and common wiring configurations. Whether you are replacing a thermostat, diagnosing control board issues, or connecting power supplies, knowing the wiring layout is crucial. Additionally, practical tips on reading diagrams and safety precautions when working with electrical components of HVAC units are included. This detailed overview ensures you have the knowledge needed to handle Trane Voyager wiring tasks effectively. The sections below will guide you through the essential aspects of the wiring diagram for this popular HVAC system.

- Understanding the Trane Voyager Wiring Diagram
- Key Components and Wiring Color Codes
- Common Wiring Configurations and Connections
- Reading and Interpreting the Wiring Diagram
- Safety Tips When Working with Trane Voyager Wiring

Understanding the Trane Voyager Wiring Diagram

The Trane Voyager wiring diagram is a schematic representation of the electrical connections and components within the Trane Voyager HVAC system. It illustrates how each component is wired to the control board, power supply, thermostat, and other elements. This diagram is vital for diagnosing issues such as faulty wiring, malfunctioning components, or improper installations. It helps technicians visualize the flow of electricity and signals throughout the system.

Typically, the wiring diagram includes symbols representing components like transformers, relays, capacitors, and motors. These symbols are connected by lines indicating wires, which often include color codes to specify their function. Understanding the overall layout allows technicians to follow the circuit paths and identify where problems may arise.

Purpose of the Wiring Diagram

The primary purpose of the Trane Voyager wiring diagram is to provide a clear roadmap for installation, maintenance, and repair tasks. It serves as a technical guide to ensure that all connections are correct, preventing electrical faults or inefficiencies. The diagram also aids in upgrading or replacing parts by showing how new components integrate into the existing system.

Where to Find the Wiring Diagram

Trane Voyager wiring diagrams are often found in the unit's service manual or on the inside panel of the HVAC system's access door. Many manufacturers also provide digital versions for download through authorized service channels. Having the correct and up-to-date diagram for the specific model is critical to avoid confusion and errors.

Key Components and Wiring Color Codes

The Trane Voyager wiring diagram identifies several key components that work together to regulate heating and cooling functions. Recognizing these components and their wiring color codes facilitates proper installation and troubleshooting.

Main Components in the Wiring Diagram

- **Transformer:** Converts line voltage to low voltage (24V) for control circuits.
- **Thermostat:** Controls system operation by signaling heating or cooling demands.
- **Control Board:** The central hub that manages system functions and safety controls.
- **Compressor:** Responsible for cooling by compressing refrigerant.
- **Fan Motor:** Circulates air across the heat exchanger or evaporator coil.
- **Heating Elements or Gas Valve:** Provides heat through electric or gas means.
- **Relays and Contactors:** Electrically operated switches controlling high-power components.

Standard Wiring Color Codes

While color codes can vary slightly based on model and installation, the Trane Voyager wiring diagram typically follows these standard HVAC color conventions:

- **R (Red):** 24V power from the transformer.
- **W (White):** Heating signal line.
- **Y (Yellow):** Cooling signal line to the compressor.

- **G (Green):** Fan control.
- **C (Blue or Black):** Common wire for completing the 24V circuit.
- **O/B (Orange or Dark Blue):** Heat pump reversing valve control.

Adhering to these color codes ensures proper communication between the thermostat and the HVAC components, minimizing wiring errors.

Common Wiring Configurations and Connections

The Trane Voyager wiring diagram details various standard wiring configurations depending on the system type, such as single-stage heating and cooling, heat pump setups, or multi-stage units. Understanding these configurations is essential for proper system function.

Single-Stage Heating and Cooling

In a basic single-stage system, the thermostat typically has terminals for R, W, Y, G, and C wires. The wiring diagram shows how these wires connect to the control board: R provides 24V power, W activates the heating circuit, Y triggers the compressor for cooling, G controls the fan motor, and C completes the circuit.

1. Red wire (R) connects to the transformer supplying 24V power.
2. White wire (W) links to the heating relay or gas valve.
3. Yellow wire (Y) connects to the compressor contactor coil.
4. Green wire (G) powers the blower fan relay.
5. Common wire (C) returns to the transformer common side.

Heat Pump Systems

For heat pump configurations, the wiring diagram incorporates additional wires such as O/B for reversing valve control and may include auxiliary heat connections. The control board coordinates switching between heating and cooling modes by energizing the appropriate relays based on thermostat signals.

Multi-Stage Systems

Multi-stage Trane Voyager units have more complex wiring involving additional wires for second-stage heating or cooling. The wiring diagram will show extra terminals like W2 or Y2 connected to secondary relays to provide enhanced system control and energy efficiency.

Reading and Interpreting the Wiring Diagram

Effectively reading a Trane Voyager wiring diagram involves understanding electrical symbols, wire paths, and the functional relationship between components. This skill is crucial for accurate diagnosis and repair.

Key Symbols and Notations

The wiring diagram uses standardized symbols to represent various electrical components:

- **Lines:** Represent electrical wires connecting components.
- **Switches:** Depicted as breaks or movable contacts in lines.
- **Relays/Contactors:** Shown as coils and associated switch contacts.
- **Transformers:** Illustrated by two inductive coils side by side.
- **Motors:** Typically symbolized by a circle with an M inside.

Tracing Circuits

Start at the power source, usually the transformer, and follow the wiring paths to each component. Observe how the thermostat wires control relays, which in turn power motors or heating elements. Understanding these sequences helps pinpoint where a fault may interrupt the circuit.

Using the Diagram for Troubleshooting

When diagnosing issues such as no heating, no cooling, or fan problems, compare the actual wiring to the diagram. Verify wire continuity, proper voltage at terminals, and correct relay operation. The diagram provides a systematic approach to isolate and resolve electrical problems.

Safety Tips When Working with Trane Voyager Wiring

Working with HVAC wiring involves exposure to electrical hazards; adherence to safety guidelines is paramount when handling the Trane Voyager wiring diagram and related components.

Power Disconnection

Always disconnect power at the circuit breaker or main power switch before inspecting or working on the wiring. This precaution prevents electric shock and equipment damage.

Use Proper Tools and Equipment

Employ insulated tools, voltage testers, and multimeters rated for HVAC electrical work. Ensure personal protective equipment (PPE) such as gloves and safety glasses are worn.

Follow Manufacturer Specifications

Consult the Trane Voyager wiring diagram specific to the unit model to avoid incorrect wiring connections. Incorrect wiring can cause system malfunction or create fire hazards.

Verify Wiring Before Powering On

Double-check all wire connections against the wiring diagram before restoring power. Confirm that all wires are securely fastened and insulated to prevent accidental shorts or loose contacts.

Frequently Asked Questions

What is a Trane Voyager wiring diagram used for?

A Trane Voyager wiring diagram is used to illustrate the electrical connections and components within Trane Voyager HVAC systems, helping technicians troubleshoot, install, or repair the unit effectively.

Where can I find an official Trane Voyager wiring diagram?

Official Trane Voyager wiring diagrams can typically be found in the unit's service manual, on Trane's official website, or by contacting Trane customer support or authorized service providers.

How do I read a Trane Voyager wiring diagram?

To read a Trane Voyager wiring diagram, start by identifying the main components such as the transformer, thermostat, blower motor, and compressor, then follow the lines representing wires to understand how these components are interconnected.

Can I use a generic HVAC wiring diagram for a Trane Voyager system?

While generic HVAC wiring diagrams can provide a basic understanding, it is recommended to use a Trane Voyager-specific wiring diagram because the system may have unique wiring configurations and components.

What are common wiring colors in a Trane Voyager wiring diagram?

Common wiring colors in Trane Voyager diagrams include red (24V power), white (heat call), yellow (cooling call), green (fan), and blue or black (common wire), but colors may vary, so always verify with the specific diagram.

How can a wiring diagram help in troubleshooting a Trane Voyager HVAC system?

A wiring diagram helps troubleshoot by showing how components are electrically connected, allowing technicians to pinpoint faults, verify power supply, check control signals, and identify wiring errors or broken connections.

Are there different wiring diagrams for various Trane Voyager models?

Yes, different Trane Voyager models and configurations may have distinct wiring diagrams due to variations in features, components, and system design, so it is important to use the diagram specific to your model.

What safety precautions should I take when working with the Trane Voyager wiring?

Always turn off power to the unit before working on wiring, use a multimeter to verify no voltage is present, follow manufacturer guidelines, and if unsure, consult a licensed HVAC technician to avoid electrical hazards.

Can I modify the Trane Voyager wiring diagram for custom installations?

Modifying the wiring beyond manufacturer specifications is not recommended as it can void warranties, lead to improper system operation, or pose safety risks. Always follow the official wiring diagram and consult professionals for custom installations.

Additional Resources

1. *Trane Voyager HVAC Systems: Comprehensive Wiring Diagrams and Troubleshooting*

This book provides an in-depth look at the wiring diagrams of Trane Voyager HVAC systems. It offers step-by-step guidance on interpreting electrical schematics and resolving common wiring issues. Technicians and HVAC enthusiasts will find practical tips for maintenance and repair, making it an essential reference for ensuring system reliability.

2. *Mastering HVAC Wiring: Focus on Trane Voyager Units*

Designed for both beginners and experienced professionals, this book covers the fundamentals of HVAC wiring with a special emphasis on Trane Voyager models. It explains electrical components, control circuits, and wiring layouts in clear language. Detailed illustrations and troubleshooting checklists help readers diagnose and fix wiring problems efficiently.

3. *The Essential Guide to Trane Voyager Electrical Systems*

This guide dives into the electrical architecture of Trane Voyager units, detailing each component's function and wiring connections. It is ideal for technicians seeking a comprehensive understanding of Voyager wiring diagrams. The book also includes practical examples and case studies to enhance problem-solving skills.

4. *HVAC Wiring Made Simple: Trane Voyager Edition*

Simplifying complex wiring concepts, this book breaks down Trane Voyager HVAC wiring diagrams into easy-to-understand sections. It covers installation, maintenance, and repair procedures, supported by clear diagrams and photographs. Readers will gain confidence in working with Voyager electrical systems through hands-on tips and best practices.

5. *Trane Voyager Wiring Diagrams and Electrical Troubleshooting Manual*

Focusing specifically on wiring diagrams, this manual provides detailed schematics for various Trane Voyager models. It guides readers through common electrical faults and troubleshooting techniques to restore system functionality. The book is an invaluable tool for HVAC service technicians aiming to reduce downtime and increase repair accuracy.

6. *Understanding Trane Voyager Controls and Wiring Schematics*

This book explores the control systems integrated within Trane Voyager units, explaining how wiring schematics relate to operational functions. It covers sensors, relays, thermostats, and other control components crucial for system performance. With comprehensive diagrams and explanations, it aids technicians in mastering Voyager system controls.

7. *Field Guide to Trane Voyager HVAC Wiring and Electrical Components*

A practical field guide, this book serves as a quick reference for on-site troubleshooting and wiring tasks involving Trane Voyager systems. It includes common wiring configurations, color codes, and connector types used in Voyager units. The guide is designed for HVAC professionals needing immediate, reliable information during service calls.

8. *Advanced Troubleshooting for Trane Voyager Electrical Systems*

Targeted at experienced HVAC technicians, this book delves into complex electrical problems in Trane Voyager systems. It presents advanced diagnostic methods, circuit analysis, and wiring diagram interpretation techniques. The book emphasizes systematic approaches to identifying and resolving elusive electrical issues.

9. *Complete Wiring and Installation Manual for Trane Voyager HVAC Units*

This manual covers everything from initial wiring installation to system setup for Trane Voyager HVAC units. It provides comprehensive diagrams, installation checklists, and safety considerations. Perfect for installers and contractors, it ensures proper electrical connections and compliance with industry standards.

Trane Voyager Wiring Diagram

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Decoding the Trane Voyager Wiring Diagram: A Comprehensive Guide for HVAC Technicians and Homeowners

This ebook provides a detailed exploration of the Trane Voyager wiring diagram, covering its intricacies, troubleshooting techniques, and safety precautions for both HVAC professionals and homeowners seeking to understand their system's electrical components. Understanding this diagram is crucial for efficient operation, maintenance, and repair of Trane Voyager heating and cooling systems.

Ebook Title: Mastering the Trane Voyager Wiring Diagram: A Step-by-Step Guide

Outline:

Introduction: Understanding the Importance of Wiring Diagrams and Safety Precautions

Chapter 1: Anatomy of the Trane Voyager Wiring Diagram: Deciphering Symbols, Components, and Their Functions

Chapter 2: Common Trane Voyager Models and Their Specific Wiring Configurations: Exploring variations across different Voyager units.

Chapter 3: Troubleshooting Common Wiring Issues: Identifying and resolving problems using the wiring diagram.

Chapter 4: Safety Procedures and Best Practices: Emphasizing safe handling of electrical components.

Chapter 5: Advanced Troubleshooting Techniques for Experienced Technicians: Delving into more complex diagnostic procedures.

Chapter 6: Understanding the Role of the Control Board: Its interaction with other system components.

Chapter 7: Interpreting Error Codes and Their Relation to Wiring: Linking error codes to potential wiring faults.

Chapter 8: Maintaining Your System's Wiring Integrity: Preventative measures and regular

inspections.

Conclusion: Recap of key points and resources for further learning.

Introduction: Understanding the Importance of Wiring Diagrams and Safety Precautions

This introductory section stresses the critical role of the wiring diagram in understanding the Trane Voyager system. It highlights the importance of safety, emphasizing the dangers of working with electricity and the necessity of proper training before attempting any electrical work. It also provides a brief overview of the ebook's content and its target audience (HVAC professionals and knowledgeable homeowners).

Chapter 1: Anatomy of the Trane Voyager Wiring Diagram: Deciphering Symbols, Components, and Their Functions

This chapter delves into the specifics of the Trane Voyager wiring diagram. It explains the various symbols used, their meanings, and how they represent different components within the system. It details the function of each major component, such as the compressor, condenser fan motor, evaporator fan motor, control board, and other key elements, and how they are interconnected. High-quality images and labeled diagrams will be used extensively to enhance understanding.

Chapter 2: Common Trane Voyager Models and Their Specific Wiring Configurations: Exploring variations across different Voyager units.

Given the range of Trane Voyager models, this chapter addresses the variations in wiring diagrams across different units. It focuses on identifying key differences and highlighting the specific considerations for each model. This will involve analyzing wiring diagrams from several common Voyager systems to illustrate these variations and offer comparative analysis. Clear, high-resolution images of different wiring diagrams will be crucial for this section.

Chapter 3: Troubleshooting Common Wiring Issues: Identifying and resolving problems using the wiring diagram.

This chapter provides a practical guide to troubleshooting common wiring problems in Trane Voyager systems. It will detail step-by-step procedures for identifying issues, using the wiring diagram to trace connections, and resolving problems such as faulty connections, blown fuses, or damaged wires. It will also include visual aids, such as flowcharts and annotated diagrams, to guide the reader through the troubleshooting process.

Chapter 4: Safety Procedures and Best Practices: Emphasizing safe handling of electrical components.

This chapter heavily emphasizes safety. It reiterates the dangers of working with electrical systems, outlines safety precautions, and provides a checklist for safe practices. This includes proper use of personal protective equipment (PPE), lockout/tagout procedures, and the importance of disconnecting power before working on any electrical components.

Chapter 5: Advanced Troubleshooting Techniques for Experienced Technicians: Delving into more complex diagnostic procedures.

This chapter targets experienced HVAC technicians, offering advanced troubleshooting techniques. It delves into more complex diagnostic procedures, such as using multimeters to test voltage and continuity, and interpreting error codes provided by the system's control board. It will discuss the use of specialized diagnostic tools and techniques.

Chapter 6: Understanding the Role of the Control Board: Its interaction with other system components.

This chapter focuses on the central role of the control board within the Trane Voyager system. It explains how the control board receives signals from various sensors and components and how it regulates the operation of the entire system. It will discuss common control board issues and their relationship to wiring problems.

Chapter 7: Interpreting Error Codes and Their Relation to Wiring: Linking error codes to potential wiring faults.

This chapter provides a comprehensive guide to interpreting error codes displayed by the Trane Voyager system. It explains how to use the error codes to identify potential wiring problems and offers guidance on troubleshooting based on specific error code messages. This will involve a table mapping error codes to potential wiring issues.

Chapter 8: Maintaining Your System's Wiring Integrity: Preventative measures and regular inspections.

This chapter offers advice on maintaining the integrity of the system's wiring over time. This includes recommending regular inspections, preventative maintenance, and identifying potential hazards that could damage wiring.

Conclusion: Recap of key points and resources for further learning.

This concluding section summarizes the key takeaways from the ebook, reiterating the importance of understanding the Trane Voyager wiring diagram for safe and efficient system operation. It provides links to additional resources, such as Trane's official website and relevant industry publications, for further learning and continued professional development.

FAQs:

1. Where can I find the Trane Voyager wiring diagram for my specific model? Your diagram should be located on the unit itself, often near the control panel, or within the system's documentation. Contact Trane support if you can't find it.
2. What tools do I need to work with Trane Voyager wiring? Basic tools include a multimeter, screwdrivers, wire strippers, and possibly a voltage tester.
3. Is it safe for a homeowner to work on the wiring? Unless you have significant electrical

experience, it's best to call a qualified HVAC technician.

4. What are the most common wiring problems in Trane Voyager systems? Loose connections, corroded wires, and faulty components are the most common issues.
5. How do I identify a blown fuse or a tripped breaker? Visually inspect fuses for breaks; check your breaker box for tripped breakers.
6. What should I do if I encounter an electrical shock while working on the wiring? Immediately disconnect power and seek medical attention.
7. How often should I have my Trane Voyager system's wiring inspected? Annual inspections are recommended as part of routine maintenance.
8. Can I use a universal wiring diagram for all Trane Voyager models? No, each model has a specific wiring diagram. Using the wrong diagram can be dangerous.
9. Where can I find professional help for Trane Voyager repairs? Contact a licensed and insured HVAC technician in your area.

Related Articles:

1. Trane Voyager Troubleshooting Guide: A comprehensive guide to diagnosing and fixing common Trane Voyager problems.
2. Understanding Trane Voyager Error Codes: A detailed explanation of error codes and their meanings.
3. Trane Voyager Maintenance Checklist: A step-by-step checklist for routine maintenance.
4. How to Replace a Trane Voyager Capacitor: A guide to safely replacing a faulty capacitor.
5. Trane Voyager Control Board Replacement: A detailed explanation of how to replace a malfunctioning control board.
6. Trane Voyager Refrigerant Charging Procedures: Guidance on properly charging the refrigerant in your system.
7. Safety Precautions when Working on HVAC Systems: A comprehensive overview of safety measures for working with HVAC equipment.
8. Choosing the Right HVAC Technician: Tips on finding a qualified and reliable technician.
9. Trane Voyager Parts Ordering and Availability: Information on sourcing Trane Voyager parts.

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trane voyager wiring diagram: The Onion Book of Known Knowledge The Onion, 2012-10-23 Are you a witless cretin with no reason to live? Would you like to know more about every piece of knowledge ever? Do you have cash? Then congratulations, because just in time for the death of the print industry as we know it comes the final book ever published, and the only one you will

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radically changing the movies themselves. The development in the United States of an appreciation of film as an art was, Baumann shows, the product of large changes in Hollywood and American society as a whole. With the postwar rise of television, American movie audiences shrank dramatically and Hollywood responded by appealing to richer and more educated viewers. Around the same time, European ideas about the director as artist, an easing of censorship, and the development of art-house cinemas, film festivals, and the academic field of film studies encouraged the idea that some American movies--and not just European ones--deserved to be considered art.

trane voyager wiring diagram: Mastering Audio Robert A. Katz, 2007 Suitable for those who want to increase their mastery of digital and analog audio: musicians, producers, A&R, mastering, recording, and mixing engineers, this title offers an introduction to the procedures and technical issues involved in mastering.

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the internal market remains a level playing field. While employing a comparative law argument, the book, accordingly, analyses the need for harmonisation throughout the different stages of development of the EU's competition law enforcement (save Merger control and State Aid), the underlying rationale, and the extent to which comparative studies have been undertaken to facilitate the harmonisation process from an historical perspective. It also covers the Directives, such as the Antitrust Damages Directive and the ECN+ Directive. Investigating both public and private enforcement, it also examines the travaux préparatoires for the enforcement legislation in order to discover the drafters' intent. The book addresses the European and the Member States' perspectives, namely, the Central and Eastern European (CEE) countries, as harmonisation proceeds through dialogue and cooperation between the two levels. Lastly, it explores the extent to which harmonisation of the competition law enforcement framework has been accepted and implemented in the Member States' legal systems, or has led to the fragmentation of the national systems of the CEE countries.

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trane voyager wiring diagram: *The Entrepreneur's Guide to Customer Development*

Brant Cooper, 2020-07-14 Affectionately dubbed *The Startup Bluebook*, the first edition of the *Entrepreneur's Guide to Customer Development* was the first book to describe Lean Startup, Customer Development, Product Market fit, and Pirate Metrics. This new, updated edition adds sections on additional, complementary innovation practices, such as Agile, Design Thinking, and Jobs-to-be-Done. In keeping with the style of the original, this edition remains purposefully simple, helping you to understand and absorb the philosophy and principles, but also how they work together, and how you actually put them to work to reduce the uncertainty in your ventures that face uncertainty. Truly the Cheat Sheet to Startup and Enterprise Innovation, this book is a practical guide to understanding your customers, testing your assumptions, and iterating your way to success. Or, if your idea is doomed to fail, to get there as quickly and painlessly as possible, so you can pivot or leap to your next venture. This book describes not only the principles and practices of popular innovation frameworks, but leverages the expertise of several thought leaders in the space, and uses tools and examples to help you along your journey. More information and access to the tools are available at Startupbluebook.com.

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trane voyager wiring diagram: *Microbiology Handbook* Rhea Fernandes, 2009-11-23 Animal flesh consumed as food is labelled 'meat'; it refers mainly to skeletal muscle and associated fat, but it may also refer to organs. As it has a high water and protein content, and contains other water-soluble constituents, it makes a suitable medium for growth of microorganisms. The animal itself, environment, and processing condition all have a bearing on the diversity of microflora of these products.

trane voyager wiring diagram: *Step by Step to Stand-up Comedy* Greg Dean, 2000 If you think you're funny, and you want others to think so too, this is the book for you! Greg Dean examines the fundamentals of being funny and offers advice on a range of topics, including: writing creative joke material rehearsing and performing routines coping with stage fright dealing with emcees who think

they're funnier than you are getting experience and lots more. Essential for the aspiring comic or the working comedian interested in updating his or her comedy routine, *Step by Step to Stand-Up Comedy* is the most comprehensive and useful book ever written on the art of the stand-up comedian.

trane voyager wiring diagram: The Numinous Legacy Adair Butchins, 2002 Where is God in the universe if anywhere? Why did God make germs? Why should we be so special? Could the universe have been different? This is a book that brings home, in no uncertain fashion, the discrepancy between the universe envisaged by the ancient sages and prophets and that of modern scientific cosmology, where the possibility of divine intervention looks less and less likely. Butchins demonstrates with clarity how the scientific method may be used, despite certain drawbacks, in an attempt to verify objective truth. It describes how the effect of the Copernican Revolution in the seventeenth century has steadily undermined the basic structure of the three great monotheistic religions of our day, Judaism, Christianity, and Islam, especially with respect to their eschatological concepts. The Eastern religions, being less anthropomorphic, are less affected. The theistic argument from design is shown to be powerful enough to have caused disagreement among present-day scientists, in spite of the strictures of Professor Dawkins. In general, the book attempts to make some sense of the structure of the universe in terms of our own consciousness; it behoves the reader to consider tha

trane voyager wiring diagram: White-Handed Gibbons Luigi Zuccante, 2019-12-07 Gibbons are anthropoidal primates. Monogamous, they fiercely defend the territory they need, and perhaps this is the only thing which is truly necessary for them to live freely. Hunted by poachers to be resold as pets, driven out by deforestation in order to develop industrial crops, their extinction is drawing near. Yet, gibbons are beings apart which generate our curiosity, together with the desire to know and understand them. These outstanding acrobats do not try to seduce, yet they seduce thanks to their graceful movements, the depth of their singing, as well as their natural discretion. They are great apes in all their splendour... This book describes these great apes and reviews our ethnocentrism. Animals are sentient beings just like humans...

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