

lennox control board wiring diagram

lennox control board wiring diagram is an essential resource for anyone troubleshooting or maintaining a Lennox HVAC system. Understanding the intricate connections on your Lennox furnace or air handler's control board is crucial for diagnosing electrical issues, replacing components, and ensuring optimal system performance. This comprehensive guide will delve deep into the world of Lennox control board wiring diagrams, explaining their importance, how to locate them, common components they depict, and practical advice for interpreting and using them effectively. Whether you're a seasoned HVAC technician or a diligent homeowner, this article aims to demystify the Lennox control board and empower you with the knowledge to navigate its electrical landscape with confidence.

Understanding the Importance of a Lennox Control Board Wiring Diagram

A Lennox control board wiring diagram serves as the electrical blueprint for your heating and cooling system's central brain. It visually represents how all the electrical components are connected, including thermostats, sensors, relays, transformers, and motors. Without this diagram, troubleshooting electrical faults becomes a guessing game, potentially leading to incorrect diagnoses and further damage to your HVAC unit. It's the primary tool for identifying which wire connects to which terminal, facilitating the safe and accurate replacement of faulty parts or the installation of new ones.

Locating Your Lennox Control Board Wiring Diagram

Finding the correct Lennox control board wiring diagram for your specific model is the first critical step. These diagrams are not universal and are tailored to the unique configuration of each HVAC system. Fortunately, Lennox provides these diagrams in several accessible locations.

Where to Find the Diagram

- **Inside the Unit Access Panel:** The most common location for the wiring diagram is a sticker or label affixed to the inside of the furnace or air handler's access panel. This panel is typically the one you remove to access the control board itself.
- **Owner's Manual:** The diagram is often included within the owner's manual that came with your Lennox system. If you've misplaced it, you can usually download a PDF version from the official Lennox website.
- **Lennox Official Website:** Lennox maintains an extensive online resource library. By entering your specific model number and serial number, you can often find technical documentation,

including wiring diagrams, for your unit.

- **HVAC Technician:** If you are unable to locate the diagram through the above methods, a qualified Lennox HVAC technician will undoubtedly have access to the correct documentation for your system.

Key Components Depicted in a Lennox Control Board Wiring Diagram

Lennox control board wiring diagrams illustrate a variety of essential electrical components. Familiarizing yourself with these symbols and their corresponding wires will greatly enhance your ability to interpret the diagram.

Thermostat Connections

The diagram will clearly show the terminals where your thermostat wires connect. These typically include terminals for power (R or Rc/Rh), fan (G), cooling (Y), heating (W), and common (C). Understanding these connections is fundamental for thermostat troubleshooting and replacement.

Transformer and Power Supply

The diagram illustrates the low-voltage transformer that steps down the household current to power the control board and its associated components. It will indicate where the high-voltage power enters the unit and how it's distributed to the transformer and other circuits.

Relays and Contactors

Relays and contactors are electromechanical switches that control higher-voltage circuits, such as the blower motor and compressor. The wiring diagram will show how these are wired to the control board, including their coil terminals and the contacts they operate.

Safety Switches and Sensors

Your Lennox system is equipped with various safety devices to prevent damage and ensure safe operation. These can include pressure switches, limit switches, flame sensors, and rollout switches. The diagram will show how these safety devices are integrated into the control board's circuitry, acting as interrupters in the system's operation under specific conditions.

Blower Motor and Fan Control

The control board manages the operation of your HVAC system's blower motor. The diagram will detail the connections for the motor's power, speed taps, and any associated relays or capacitors. This is crucial for diagnosing issues with airflow or the fan not running.

Ignition System and Burner Control (Furnaces)

For gas furnaces, the wiring diagram will show the intricate connections for the ignition system, including the igniter, flame sensor, and gas valve. It outlines the sequence of operations that the control board follows to safely ignite the burner and maintain heat.

Condensate Drain and Float Switches

In air conditioning systems, condensate forms and needs to be drained. The diagram may show the wiring for condensate pumps or float switches that are designed to shut off the system if the drain line becomes blocked, preventing water damage.

Interpreting a Lennox Control Board Wiring Diagram Effectively

Reading a wiring diagram might seem daunting at first, but with a systematic approach, it becomes manageable. The key is to break down the information into smaller, understandable parts.

Understanding Wire Colors and Terminal Designations

While specific wire colors can vary, many HVAC systems adhere to common conventions. However, the most reliable method is to pay close attention to the terminal designations (e.g., R, G, Y, W, C, X, Y2, W2) printed directly on the diagram and often on the control board itself. These designations are the universal language of HVAC wiring.

Tracing Circuits

When troubleshooting, you'll often need to trace a specific circuit. Start at one point, such as the thermostat terminal, and follow the corresponding wire line on the diagram to see which components it controls or receives signals from. Similarly, you can trace power flow from the transformer to understand how components are energized.

Identifying Common Failure Points

Experienced technicians use wiring diagrams to anticipate common failure points. For instance, wires that are subject to frequent flexing, like those leading to the outdoor unit for air conditioners, might be more prone to breaking. Understanding the circuit can help pinpoint where a fault might lie.

Understanding System States

The diagram often implicitly shows the different states of the HVAC system (e.g., heating, cooling, fan only). By following the energized circuits for each state, you can understand the control board's logic and how it responds to thermostat commands.

Practical Tips for Using Lennox Control Board Wiring Diagrams

Having the diagram is one thing; using it effectively is another. Here are some practical tips to help you get the most out of your Lennox control board wiring diagram.

Safety First

- Always disconnect power to the HVAC unit at the breaker box before attempting any work on the control board or wiring.
- Use a multimeter to verify power is off and to test voltage levels when performing diagnostics.
- If you are unsure about any aspect of the wiring, it is always best to consult a qualified HVAC professional.

Maintain a Clean Working Area

Ensure the area around the control board is clean and free of debris. This prevents accidental shorts and makes it easier to identify components and wires.

Take Photos Before Disconnecting

Before disconnecting any wires, take clear, high-resolution photos of the control board with the wires in place. This provides a visual reference and significantly simplifies the re-wiring process.

Label Wires

If you need to disconnect wires, label each wire with its corresponding terminal designation before removing it. This prevents mix-ups when reconnecting them.

Compare with the Actual Board

Constantly compare the wiring diagram to the physical control board in your unit. The layout might differ slightly between revisions, but the terminal designations should match. Ensure the physical wires are connected to the correct terminals as indicated on the diagram.

Understand System Variations

Remember that Lennox produces a wide range of HVAC equipment. While the principles are similar, the specific components and their arrangement can vary between different furnace, air handler, and air conditioner models. Always refer to the diagram specific to your unit's model number.

Frequently Asked Questions

What is the primary purpose of a Lennox control board wiring diagram?

The primary purpose of a Lennox control board wiring diagram is to visually represent the electrical connections of the various components within a Lennox HVAC system. It serves as a roadmap for understanding how power flows, how signals are transmitted between components, and how to troubleshoot or replace parts.

Where can I typically find a Lennox control board wiring diagram?

Lennox control board wiring diagrams are usually located on the inside of the HVAC unit's access panel, often on a sticker or metal plate. They can also be found in the unit's installation or service manual, or by searching the Lennox website for your specific model number.

What are the common wire colors and their typical functions

on a Lennox control board?

While specific colors can vary slightly by model and age, common wire colors include: R (Red) for 24V power, C (Common) for continuous 24V power, W (White) for heat, Y (Yellow) for cool, G (Green) for fan, and O/B (Orange/Blue) for reversing valve. Always confirm with the specific diagram for your unit.

What does a 'T' terminal on a Lennox control board typically signify?

The 'T' terminal on a Lennox control board usually refers to a 'Time Delay' function. This is often used for a short delay before the compressor engages to prevent short cycling and protect the equipment, particularly after a power interruption or a call for heat.

How does the wiring diagram help in diagnosing a 'no heat' or 'no cool' issue?

The wiring diagram is crucial for 'no heat' or 'no cool' issues. By tracing the power from the thermostat (R and W for heat, R and Y for cool) through the control board and to the relevant components (furnace ignitor/gas valve, or AC contactor), you can identify breaks in the circuit, faulty safeties, or incorrect wiring.

What is the importance of the 'C' wire in Lennox HVAC systems, and how is it depicted on the diagram?

The 'C' wire (Common) provides continuous 24V power to the thermostat and other electronic components. It's essential for modern thermostats with advanced features and Wi-Fi connectivity. The diagram will show the 'C' terminal on the control board and its connection to the thermostat's 'C' terminal.

Can I connect a smart thermostat to a Lennox system using the existing wiring, and how would the diagram guide this?

Yes, you can often connect a smart thermostat. The wiring diagram will show the terminals on the Lennox control board that correspond to the smart thermostat's terminals (e.g., R, C, W, Y, G). It's vital to ensure your Lennox system has a 'C' wire available or to utilize an adapter if necessary, as depicted on the diagram.

What precautions should be taken when working with a Lennox control board wiring diagram?

Always turn off the power to the HVAC unit at the breaker before working on the control board. Verify that the diagram accurately matches your unit's model and serial number. If unsure, consult a qualified HVAC technician to avoid electrical hazards and further damage to the system.

Additional Resources

Here are 9 book titles related to Lennox control board wiring diagrams, along with their descriptions:

1. Understanding HVAC Control Board Wiring: A Lennox Guide

This book serves as a foundational text for anyone needing to understand the intricacies of Lennox control board wiring. It breaks down common components, sensor types, and communication protocols used in Lennox systems. Readers will learn to interpret standard wiring symbols and identify the purpose of various terminals on a Lennox control board. It's an essential resource for technicians and DIY enthusiasts alike.

2. Troubleshooting Lennox Control Boards: From Diagrams to Diagnostics

Focusing on practical application, this manual guides users through the process of diagnosing and resolving issues with Lennox control board wiring. It emphasizes the importance of meticulously following wiring diagrams to pinpoint faults, such as open circuits or shorted wires. The book provides step-by-step troubleshooting procedures for common Lennox models, making it invaluable for efficient repair.

3. Lennox Furnace Control Board Wiring Explained: The Comprehensive Manual

This specialized volume delves deep into the wiring configurations of Lennox furnace control boards. It meticulously details the connections for burners, blowers, igniters, and safety switches, all referencing specific Lennox furnace models. The explanations are supported by clear, annotated diagrams that illustrate the flow of electricity and signals. It's a must-have for anyone working exclusively with Lennox furnaces.

4. Residential HVAC Wiring: Featuring Lennox Control Board Schematics

While covering broader residential HVAC wiring principles, this book dedicates significant attention to Lennox control board schematics. It provides context for how Lennox boards integrate into a complete HVAC system, explaining power supply, low-voltage circuits, and thermostat connections. The inclusion of detailed Lennox-specific diagrams makes it a practical reference for understanding system-wide wiring.

5. Lennox Air Conditioner Control Board Wiring: A Technician's Handbook

Designed for HVAC professionals, this handbook offers an in-depth look at the wiring diagrams for Lennox air conditioner control boards. It covers the unique wiring requirements for cooling cycles, compressors, and fan motors in Lennox AC units. The book emphasizes safety procedures and best practices when working with high-voltage and low-voltage wiring associated with these boards.

6. Advanced Lennox Control Board Troubleshooting with Wiring Diagrams

This advanced text is for experienced technicians seeking to tackle more complex wiring challenges within Lennox control systems. It explores advanced diagnostic techniques that rely heavily on interpreting detailed wiring schematics, including those involving multi-stage systems and communication buses. The book helps users understand how subtle wiring errors can lead to significant operational problems.

7. The Illustrated Guide to Lennox Control Board Wiring and Identification

With an emphasis on visual learning, this book uses clear illustrations and photographs alongside wiring diagrams for Lennox control boards. It helps users quickly identify components on the board and understand their corresponding terminal connections. The clear, concise explanations make it accessible for those who prefer a visual approach to learning about electrical systems.

8. Smart HVAC Control Wiring: Integrating Lennox Systems with Modern Technology

This forward-thinking book explores the wiring aspects of integrating Lennox control boards with modern smart thermostats and building automation systems. It details the specific wiring modifications and connections required for seamless integration, referencing Lennox control board diagrams. Readers will learn how to adapt existing Lennox wiring for enhanced functionality and connectivity.

9. Lennox HVAC System Wiring: A Practical Reference with Control Board Schematics

This practical reference book provides a comprehensive overview of Lennox HVAC system wiring, with a strong focus on the control board schematics. It covers various Lennox system types, detailing the wiring for each, from basic single-stage setups to more complex multi-zone configurations. The detailed schematics are accompanied by explanatory text that simplifies the understanding of electrical pathways.

Lennox Control Board Wiring Diagram

Understanding Lennox Control Board Wiring Diagrams: A Comprehensive Guide to Troubleshooting and Repair

This ebook provides a detailed exploration of Lennox control board wiring diagrams, crucial for understanding, troubleshooting, and repairing Lennox heating and cooling systems. Accurate interpretation of these diagrams is essential for HVAC technicians and homeowners alike, ensuring efficient and safe operation of their equipment.

Ebook Title: Mastering Lennox Control Board Wiring Diagrams: A Troubleshooting and Repair Guide

Contents:

Introduction: Explaining the importance of understanding control board wiring diagrams in HVAC systems, focusing on Lennox systems specifically.

Chapter 1: Deciphering Lennox Control Board Schematics: A step-by-step guide to interpreting the symbols, notations, and wiring configurations commonly found on Lennox control boards.

Chapter 2: Common Lennox Control Board Models and Their Diagrams: A detailed overview of frequently encountered Lennox control board models, their respective wiring diagrams, and any unique features. Includes visual examples.

Chapter 3: Troubleshooting Common Issues Using Wiring Diagrams: Practical examples of how to use wiring diagrams to diagnose and resolve common problems like system malfunctions, component failures, and wiring errors.

Chapter 4: Safety Precautions and Best Practices: Emphasizing the importance of safety when working with electrical systems, highlighting proper procedures and tools to use while troubleshooting and repairing.

Chapter 5: Advanced Troubleshooting Techniques: Exploring advanced diagnostic methods using multimeter readings, voltage checks, and continuity testing guided by the wiring diagram.

Chapter 6: Replacing a Lennox Control Board: A Step-by-Step Guide: A comprehensive guide with photos/illustrations detailing the process of safely removing, replacing, and reconnecting a Lennox control board.

Conclusion: Summarizing key concepts, reiterating the importance of accurate diagram interpretation, and encouraging further learning resources.

Detailed Breakdown of Contents:

Introduction: This section sets the stage, explaining the significance of Lennox control boards in HVAC systems and why understanding their wiring diagrams is paramount for effective maintenance and repair. It will highlight the target audience (homeowners, HVAC technicians) and the ebook's overall purpose.

Chapter 1: Deciphering Lennox Control Board Schematics: This chapter acts as a foundational guide, demystifying the visual language of Lennox wiring diagrams. It will cover common symbols (e.g., for capacitors, resistors, transformers), color-coding conventions, and how to trace circuits effectively using the diagrams. It will include numerous annotated examples of diagram sections.

Chapter 2: Common Lennox Control Board Models and Their Diagrams: This chapter focuses on specific Lennox models, presenting examples of their wiring diagrams. This section will include high-quality images of actual control boards and corresponding diagrams, categorized by model number for easy reference. It will point out any unique features or variations between models.

Chapter 3: Troubleshooting Common Issues Using Wiring Diagrams: This is a practical, hands-on section. It presents realistic troubleshooting scenarios, guiding readers through the steps of using the wiring diagram to identify the source of problems (e.g., a faulty capacitor, a broken wire, incorrect wiring). Each scenario includes step-by-step instructions and visual aids.

Chapter 4: Safety Precautions and Best Practices: This chapter prioritizes safety. It outlines crucial safety precautions when working with electrical systems, emphasizing the importance of disconnecting power, using appropriate safety equipment (insulated tools, gloves), and adhering to local electrical codes.

Chapter 5: Advanced Troubleshooting Techniques: This chapter delves into more advanced diagnostic methods. It explains how to use multimeters to test voltage, current, and resistance, interpreting the readings in conjunction with the wiring diagram to pinpoint problems. It will cover continuity testing and other advanced techniques.

Chapter 6: Replacing a Lennox Control Board: A Step-by-Step Guide: This is a comprehensive, illustrated guide to physically replacing a Lennox control board. This will include clear, step-by-step instructions with high-quality images or videos demonstrating the process, emphasizing proper grounding and connection procedures.

Conclusion: The conclusion summarizes the key takeaways of the ebook, reinforcing the importance of understanding and using Lennox control board wiring diagrams for effective troubleshooting and repair. It will also offer suggestions for further learning and resources.

(SEO Optimized Headings and Content – Example Snippets)

H2: Understanding Lennox Control Board Components

This section will detail the common components found on Lennox control boards, explaining their function and how to identify them in the wiring diagrams. We'll discuss components like transformers, capacitors, relays, transistors, and integrated circuits (ICs). Keywords: Lennox control board components, HVAC control board components, capacitor, relay, transistor, integrated circuit, transformer

H3: Interpreting Common Symbols on Lennox Wiring Diagrams

This section focuses specifically on the visual language of the diagrams. We'll explain the meaning of various symbols used to represent different components and connections. Keywords: Lennox wiring diagram symbols, HVAC wiring diagram symbols, circuit diagram symbols, schematic symbols

H2: Troubleshooting Lennox Furnace Control Board Problems

This section provides case studies demonstrating how to troubleshoot specific furnace problems using the wiring diagram. For instance, we'll cover diagnosing problems such as a non-functioning blower motor, igniter issues, or flame rollout switches. Keywords: Lennox furnace troubleshooting, Lennox furnace control board, blower motor troubleshooting, igniter troubleshooting, flame rollout switch

H2: Troubleshooting Lennox Air Conditioner Control Board Problems

This mirrors the previous section but focuses on air conditioner issues. We'll cover issues like compressor failure, refrigerant leaks, and condenser fan malfunctions. Keywords: Lennox air conditioner troubleshooting, Lennox air conditioner control board, compressor troubleshooting, refrigerant leak detection, condenser fan troubleshooting

FAQs:

1. What tools do I need to work with Lennox control boards?
2. How can I identify my Lennox control board model number?
3. Are there online resources for Lennox wiring diagrams?
4. What are the common causes of Lennox control board failure?
5. How much does it cost to replace a Lennox control board?
6. Can I repair a damaged Lennox control board myself?
7. What safety precautions should I take when working with electrical components?
8. Where can I find certified Lennox technicians?
9. How can I prevent future control board problems?

Related Articles:

1. Lennox Furnace Troubleshooting Guide: A comprehensive guide to troubleshooting common Lennox furnace problems.
2. Lennox Air Conditioner Repair Tips: Practical advice on repairing common issues with Lennox air conditioners.
3. Understanding HVAC Wiring Diagrams: A general overview of HVAC wiring diagrams and their

interpretation.

4. How to Use a Multimeter for HVAC Diagnostics: A guide to using a multimeter for troubleshooting HVAC systems.
5. Safety Precautions for HVAC Technicians: A detailed explanation of essential safety measures for working with HVAC systems.
6. Choosing the Right Lennox HVAC System: Advice on selecting the appropriate Lennox system for your home.
7. Lennox System Maintenance Checklist: A checklist for regular maintenance to keep your Lennox system running smoothly.
8. Common Lennox Error Codes and Their Meanings: A guide to understanding common Lennox error codes and their solutions.
9. Finding a Qualified HVAC Contractor: Tips on finding a reliable and experienced HVAC contractor.

This expanded ebook provides a solid foundation in understanding Lennox control board wiring diagrams and effectively using them for troubleshooting and repair. Remember to always prioritize safety and consult professional help when necessary.

lennox control board wiring diagram: Refrigerant Charging and Service Procedures for Air Conditioning Craig Migliaccio, 2019-04-24 This Ebook is dedicated to those who are eager to learn the HVACR Trade and Refrigerant Charging/Troubleshooting Practices. In this book, you will find Step by Step Procedures for preparing an air conditioning and heat pump system for refrigerant, reading the manifold gauge set, measuring the refrigerants charge level, and troubleshooting problems with the system's refrigerant flow. This book differs from others as it gives key insights into each procedure along with tool use from a technician's perspective, in language that the technician can understand. This book explains the refrigeration cycle of air conditioners and heat pumps, refrigerant properties, heat transfer, the components included in the system, the roles of each component, airflow requirements, and common problems. Procedures Included: Pump Down, Vacuum and Standing Vacuum Test, Recovery and Recovery Bottle Use, Refrigerant Manifold Gauge Set and Hose Connections, Service Valve Positions and Port Access, Preparation of the System for Refrigerant, Refrigerant Charging and Recovery on an Active System, Troubleshooting the Refrigerant Charge and System Operation

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equipment and the new refrigerants Utilize control devices, including solenoids and relays Operate, select, and repair electric motors Work with condensers, compressors, and evaporators Monitor the flow of refrigerant with valves, tubing, and filters Comply with the Section 608 refrigerant recycling rule Program thermostats Insulate with batts, sheet, tubing covers, and foam Work with solid-state controls Understand electrical and electronic symbols used in schematics

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distinguished neuroscientist Suzanne Corkin studied Molaison and oversaw his care. Her account of his life and legacy in *Permanent Present Tense* reveals an intelligent man who, despite his profound amnesia, was altruistic, friendly, open, and humorous. She explores how his case transformed an entire field, helping to address eternal questions. How do we store and retrieve memories? How do we know that there are different kinds of memory, controlled by different brain circuits? Is our identity bound up with remembering? If you can recall people or events for only a few seconds and cannot learn from the past or plan the future, can you still live a meaningful life? *Permanent Present* explores the astonishing complexity of the human brain with great clarity, sensitivity, and grace, showing how one man's story challenged our very notions of who we are. Suzanne Corkin is Professor of Behavioral Neuroscience and head of the Corkin Lab at MIT. The author of nine books, Corkin lives in Charlestown, Massachusetts. 'A fascinating account of perhaps the most important case study in the history of neuroscience, rich with implications for our understanding of the brain, our experience, and what it means to be human' Steven Pinker, author of 'How the Mind Works' and 'The Stuff of Thought' 'The best way to understand memory is to witness the ways it can disassemble. In this remarkable book, Suzanne Corkin gifts us with a rare insider's view, revealing how a man who could not remember his immediate past so profoundly influenced science's future' David Eagleman, neuroscientist and New York Times bestselling author of 'Incognito: The Secret Lives of the Brain' 'Suzanne Corkin has written an enjoyable and sensitive story of H.M.'s life and what it has taught us about memory. Millions of patients have been the source of advances in science but few are celebrated as individuals. We learn through H.M. that 'Our brains are like hotels with eclectic arrays of guests-homes to different kinds of memory, each of which occupies its own suite of rooms' Philip A. Sharp, Institute Professor, Massachusetts Institute of Technology, and winner of the Nobel Prize in Physiology or Medicine 'Drawing on her unique investigations over more than four decades, neuroscientist Suzanne Corkin relates the fascinating story of how one severely amnesic man transformed our understanding of mind, brain, and memory' Howard Gardner, author of 'Multiple Intelligences'

lennox control board wiring diagram: Solar Engineering of Thermal Processes, Photovoltaics and Wind John A. Duffie, William A. Beckman, Nathan Blair, 2020-03-24 The bible of solar engineering that translates solar energy theory to practice, revised and updated The updated Fifth Edition of *Solar Engineering of Thermal Processes, Photovoltaics and Wind* contains the fundamentals of solar energy and explains how we get energy from the sun. The authors—noted experts on the topic—provide an introduction to the technologies that harvest, store, and deliver solar energy, such as photovoltaics, solar heaters, and cells. The book also explores the applications of solar technologies and shows how they are applied in various sectors of the marketplace. The revised Fifth Edition offers guidance for using two key engineering software applications, Engineering Equation Solver (EES) and System Advisor Model (SAM). These applications aid in solving complex equations quickly and help with performing long-term or annual simulations. The new edition includes all-new examples, performance data, and photos of current solar energy applications. In addition, the chapter on concentrating solar power is updated and expanded. The practice problems in the Appendix are also updated, and instructors have access to an updated print Solutions Manual. This important book: • Covers all aspects of solar engineering from basic theory to the design of solar technology • Offers in-depth guidance and demonstrations of Engineering Equation Solver (EES) and System Advisor Model (SAM) software • Contains all-new examples, performance data, and photos of solar energy systems today • Includes updated simulation problems and a solutions manual for instructors Written for students and practicing professionals in power and energy industries as well as those in research and government labs, *Solar Engineering of Thermal Processes, Fifth Edition* continues to be the leading solar engineering text and reference.

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difficulty. Many are to bluffs, waterfalls, rock features, shelters and some amazing vistas. The Bluffs and Selected Areas are only a small sampling of some of the outdoor adventures you will find in Arkansas. Get out and discover some of them today. You won't be disappointed.

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