

5 Pin Cdi Box Wiring Diagram

5 Pin CDI Box Wiring Diagram: A Complete Guide to Understanding and Installation **5 pin cdi box wiring diagram** is a crucial reference for anyone working with motorcycles, scooters, or small engines that use Capacitor Discharge Ignition (CDI) systems. Whether you're an avid mechanic, a DIY enthusiast, or a rider wanting to troubleshoot ignition issues, understanding the wiring layout of a 5 pin CDI box can save you time and frustration. This article dives deep into the essentials of the 5 pin CDI box wiring diagram, helping you decode the connections, the function of each wire, and how to ensure a smooth installation or repair.

What is a 5 Pin CDI Box?

Before we get into the wiring specifics, it's helpful to clarify what a CDI box is and why the 5 pin version is common in many two-stroke and four-stroke engines. A CDI, or Capacitor Discharge Ignition system, is an electronic ignition system that stores energy in a capacitor and releases it to the ignition coil to create a spark at the right moment. The "5 pin" refers to the number of connection points on the CDI unit. Each pin corresponds to an essential electrical input or output, contributing to the ignition system's operation. Compared to other CDI types (like 3-pin or 7-

pin), the 5 pin CDI box strikes a balance between simplicity and functionality, making it popular in various motorcycles and scooters.

Understanding the 5 Pin CDI Box Wiring Diagram

A wiring diagram is essentially a map that shows how the wires connect between the CDI box and other components such as the stator, ignition coil, battery, and kill switch. The 5 pin CDI wiring diagram typically includes the following wires:

1. **Pickup Coil Wire** - Detects the position of the crankshaft.
2. **Ignition Coil Wire** - Sends the high voltage pulse to the spark plug.
3. **CDI Power Wire** - Supplies power to the CDI unit from the battery or stator.
4. **Ground Wire** - Provides the electrical ground connection.
5. **Kill Switch Wire** - Allows the engine to be shut off.

Pin Identification and Color Coding

While wire colors can vary between manufacturers, a common color scheme for the 5 pin CDI box is:

1. **Red Wire:** Power input (usually 12V from stator or battery)
2. **Black Wire:** Ground connection
3. **Green Wire:** Pickup coil input
4. **White Wire:** Ignition coil output

5. **Yellow Wire:** Kill switch input

It's important to consult your vehicle's service manual or the specific CDI box documentation because colors and functions may differ. Using a multimeter can help verify connections if you're uncertain.

How to Read and Use the 5 Pin CDI Box Wiring Diagram

Reading a wiring diagram might seem daunting, but breaking it down step-by-step makes the process manageable. Here's how to approach the 5 pin CDI box wiring diagram effectively:

Step 1: Locate the CDI Unit and Connector

Start by finding the CDI box on your motorcycle or scooter. It's often a small rectangular box mounted near the engine or under the seat. The 5-pin connector should be plugged into it, with wires branching out to other components.

Step 2: Identify Each Wire and Trace Its Path

Using the wiring diagram, match each pin on the CDI to its corresponding wire and component. For example, trace the ignition coil wire from the CDI to the ignition coil itself. This helps in troubleshooting or replacing faulty wires.

Step 3: Check for Continuity and Voltage

Use a multimeter to test if the wires are intact and carrying the correct voltage. For example, the power wire should have a steady 12V supply when the engine is running.

Step 4: Reconnect or Replace Wires as Needed

If any wires are damaged or incorrectly connected, use the wiring diagram as a guide to repair or rewire properly.

Common Issues Associated with 5 Pin CDI Box Wiring

Understanding the wiring diagram also helps diagnose common ignition problems linked to the CDI box, such as:

1. **No Spark or Weak Spark:** Often caused by a faulty pickup coil wire or ignition coil wire connection.
2. **Engine Not Starting:** Could result from incorrect wiring of the power or ground wires.
3. **Engine Stalls or Shuts Off Unexpectedly:** Sometimes due to a malfunctioning kill switch wire or intermittent grounding issues.
4. **Damaged Wiring Harness:** Rodent damage, corrosion, or wear and tear can disrupt signal flow.

By following the 5 pin CDI box wiring diagram carefully, you can

isolate and fix these problems more efficiently.

Tips for Installing a 5 Pin CDI Box

If you're installing a new CDI box or replacing an old one, there are a few practical tips to keep in mind:

1. **Double-check Compatibility:** Ensure the CDI unit matches your engine model and specifications.
2. **Use Proper Connectors:** Avoid twisting wires together. Use soldering or crimp connectors for a reliable connection.
3. **Protect the Wiring:** Use electrical tape or heat shrink tubing to insulate wires and prevent shorts.
4. **Secure the CDI Box:** Mount it firmly to avoid vibrations that can damage internal electronics.
5. **Test After Installation:** Always test the ignition system before fully reassembling your vehicle.

Variations of the CDI Wiring Diagrams

While the 5 pin CDI box wiring diagram is fairly standard, variations can exist based on the make and model of the vehicle. Some systems might integrate additional wires for features such as:

1. Rev limiters
2. Variable ignition timing
3. Battery charging circuits

It's always a good idea to obtain a wiring diagram specific to

your vehicle's year and model to avoid confusion.

Using Online Resources and Forums

Many motorcycle and scooter communities share wiring diagrams and troubleshooting tips online. Forums, YouTube tutorials, and repair manuals can provide visual aids that complement your 5 pin CDI box wiring diagram, making the process easier to understand.

Why Proper Wiring Matters for Your CDI System

The CDI box is the heart of your ignition system. Proper wiring ensures that the ignition timing is accurate, the spark is strong, and your engine runs smoothly. Incorrect wiring can lead to:

1. Engine misfires
2. Poor fuel efficiency
3. Starting difficulties
4. Potential damage to electronic components

By investing time in understanding and correctly wiring your 5 pin CDI box, you safeguard your vehicle's performance and longevity. Navigating the intricacies of a 5 pin CDI box wiring diagram might seem technical at first glance, but with the right approach and resources, it becomes an empowering skill. Whether you're performing routine maintenance, troubleshooting ignition issues, or upgrading your ignition

system, having a clear grasp of the wiring layout is invaluable. Remember to always consult your specific vehicle's manual and use reliable tools to make the process smooth and safe.

Understanding the 5 Pin CDI Box:

A 5-pin CDI box—short for Capacitive Discharge Ignition—serves as a critical component in modern internal combustion engines, bridging the gap between ignition control systems and spark plugs. At its core, the CDI box functions as a fast-acting electronic switch that stores and releases high-voltage discharges to ignite the air-fuel mixture in the combustion chamber. The 5-pin configuration is standardized across many automotive and small engine platforms, where each pin serves a precise role: pin 1 provides ground reference, pin 2 supplies the ignition control signal from the ECU or ignition module, pin 3 acts as the trigger input from the distributor or coil control circuit, pin 4 delivers the high-voltage pulse to the spark plug via the ignition coil, and pin 5 often functions as a Δ or feedback pin in advanced models. This modular design enables reliable, repeatable ignition timing with minimal latency, making the CDI box essential for optimal engine performance, especially under variable load and RPM conditions. Unlike older mechanical points or basic ignition modules, the 5-pin CDI integrates signal conditioning and fast switching to enhance spark consistency, reducing misfires and improving cold-start reliability. Its compact, durable housing is engineered to withstand extreme temperatures and electrical noise, ensuring long-term

operational stability in harsh environments.

Functional Architecture and Circuit Interaction

The operational integrity of a 5-pin CDI box relies on a carefully orchestrated sequence of electrical events, governed by precise timing and signal integrity across its five pins. Pin 1 establishes the chassis or engine ground, anchoring the circuit and preventing ground loops that could distort spark timing. Pin 2 receives a low-voltage control signal—either from a crankshaft position sensor, camshaft position sensor, or direct ECU output—dictating when to initiate discharge. When triggered, pin 3 activates a high-current path through the ignition coil's primary winding, building magnetic flux. Upon signal drop at pin 2, the stored energy is rapidly discharged across the spark plug via pin 4, generating a high-voltage spark within milliseconds. This fast transition minimizes energy loss and ensures the spark occurs at the optimal cylinder timing, crucial for efficient combustion. In systems with coil-on-plug (COP) setups, the CDI box may interface directly with the coil, eliminating external distributor components and reducing mechanical wear. Advanced units incorporate feedback mechanisms on pin 5 to modulate discharge timing based on real-time engine conditions, dynamically adjusting for altitude, temperature, and load. This closed-loop control enhances ignition precision, supporting advanced fuel injection strategies and improving emissions compliance. The entire sequence—from signal reception to spark

discharge—occurs in under 50 microseconds, a response time far exceeding traditional mechanical ignition systems.

Use Cases and Real-World Applications

The 5-pin CDI box finds widespread deployment across automotive, marine, and small engine applications where reliable ignition control is paramount. In modern passenger vehicles, particularly those equipped with direct ignition systems, the CDI box replaces older distributor-based mechanisms, offering superior spark consistency and longevity. Its fast response is especially beneficial in high-performance engines demanding precise timing across wide RPM ranges. In diesel engines, CDI boxes support glow plug activation during cold starts, ensuring rapid combustion and reduced emissions. Off-road vehicles and agricultural machinery benefit from the CDI's robustness under vibration and dust, maintaining ignition performance in rugged conditions. Marine engines, subject to saltwater exposure and fluctuating power demands, rely on CDI boxes for durable, noise-resistant spark control. Small engines—such as those powering lawnmowers, generators, and chainsaws—integrate CDI units to enhance cold-start reliability and reduce misfire-related wear on spark plugs and coils. Additionally, modified performance setups often pair CDI boxes with custom ECUs to fine-tune ignition timing, unlocking improved throttle response and fuel efficiency. In racing and motorsport, where ignition timing must be adjusted dynamically, CDI boxes enable rapid signal processing critical for

optimizing engine behavior mid-race. Their adaptability extends to hybrid systems exploring spark-assisted combustion, where precise ignition timing enhances combustion efficiency and reduces unburned hydrocarbons.

Performance Benefits and System Advantages

Adopting a 5-pin CDI box delivers measurable improvements in engine performance, efficiency, and longevity. The rapid switching capability ensures near-instantaneous spark delivery, minimizing ignition lag and promoting complete combustion across all cylinders. This results in smoother engine operation, reduced power fluctuations, and enhanced throttle response—particularly evident during acceleration. By enabling precise timing adjustments based on real-time sensor inputs, CDI systems help maintain optimal combustion even under variable load and environmental conditions, improving fuel economy and reducing emissions. The reduced spark timing variance decreases mechanical stress on pistons, valves, and other components, extending engine life and lowering maintenance costs. In cold-start scenarios, CDI boxes activate glow plugs or boost coil output with enhanced precision, preventing hard starts and reducing cold-engine wear. Their inherent noise immunity and signal filtering capabilities suppress interference from electrical systems, ensuring consistent spark even in high-electromagnetic environments like modern vehicles with extensive electronic control units. Compared to basic ignition

modules, CDI boxes offer superior reliability under high-frequency switching, making them ideal for high-revving and performance-oriented applications. Additionally, their compact form factor and low power draw contribute to reduced vehicle weight and improved electrical efficiency. Overall, the CDI box represents a critical enabler of modern ignition technology, delivering performance gains that align with evolving efficiency and emissions standards.

Challenges, Limitations, and Maintenance Insights

Despite their advantages, 5-pin CDI boxes are not without challenges and operational constraints. One primary limitation lies in their sensitivity to electrical noise and voltage fluctuations, particularly in older or poorly maintained vehicles where wiring harness degradation can introduce interference. Poor ground connections or corroded pin interfaces may degrade spark consistency, undermining the CDI's performance benefits. Additionally, while the 5-pin design is standardized, compatibility varies across vehicle platforms—misidentification of pin functions between OEMs or aftermarket replacements can lead to improper timing or failure to trigger. Over time, internal capacitor degradation or contact wear in switching elements may reduce discharge efficiency, resulting in slower spark timing and increased misfire risk. Diagnosis can be complex due to the integrated nature of signals across pins, requiring specialized multimeters or oscilloscope analysis to isolate faults.

Maintenance demands regular inspection of terminals and housing for corrosion or physical damage, especially in high-vibration or high-temperature environments. Replacement intervals depend on usage intensity, but most OEM recommendations suggest replacement every 80,000 to 120,000 kilometers to ensure reliability. For performance or modified applications, users must calibrate the CDI with updated ECU parameters, as factory timing maps may not align with aftermarket tuning. Proper installation, shielded wiring, and periodic cleaning of contact surfaces are essential to maximize service life and maintain optimal ignition performance.

5 Pin CDI Box Wiring Diagram: An In-Depth Technical Review **5 pin cdi box wiring diagram** serves as a fundamental reference for technicians, motorcycle enthusiasts, and electrical engineers who work with ignition systems on two-wheelers and small engines. Understanding the wiring configuration of a 5 pin Capacitor Discharge Ignition (CDI) box is essential for troubleshooting, installation, and performance optimization. This article provides a comprehensive examination of the 5 pin CDI box wiring diagram, explaining its components, wiring essentials, and common variations found across different models.

Understanding the Role of a 5 Pin CDI Box

The CDI box is an integral part of the ignition system in motorcycles, scooters, and various small engines. It controls the timing of the spark plug firing by storing and discharging

electrical energy rapidly to the ignition coil. Unlike traditional ignition systems, the CDI system uses a capacitor to store energy, which contributes to faster spark discharge and improved combustion efficiency. A 5 pin CDI box typically contains five electrical connectors, each serving a distinct function in the ignition process. The wiring diagram of this component is crucial not only for installation but also for diagnostic purposes when the engine fails to start or runs irregularly.

Key Components in a 5 Pin CDI Box Wiring Diagram

A standard 5 pin CDI box wiring diagram includes the following connections:

1. **Ignition Coil Wire:** Connects the CDI to the ignition coil, allowing the high voltage spark to reach the spark plug.
2. **Pickup Coil Wire:** Receives the timing signal from the stator or pickup coil to trigger the discharge.
3. **Charging Wire:** Connects to the stator or alternator to charge the capacitor within the CDI.
4. **Kill Switch Wire:** Allows the rider to cut off the ignition manually by grounding the CDI.
5. **Ground Wire:** Provides a return path for electrical current, ensuring stable operation of the CDI box.

This configuration is relatively consistent across various brands, although labeling and wire colors may differ. Understanding the

wiring layout is critical for those undertaking repairs or replacements.

Analyzing a Typical 5 Pin CDI Box Wiring Diagram

To delve deeper, consider a typical wiring schematic:

1. **Pin 1 - Ignition Coil Output:** Transmits the high voltage pulse to the coil, generating the spark at the plug.
2. **Pin 2 - Pickup Coil Input:** Receives signals from the engine's timing sensor.
3. **Pin 3 - Charging Input:** Connects to the stator winding, providing AC voltage to charge the internal capacitor.
4. **Pin 4 - Kill Switch:** When grounded via the kill switch, disables spark generation, stopping the engine.
5. **Pin 5 - Ground:** Completes the circuit by connecting the CDI to the vehicle's chassis ground.

This diagram can be visualized as a flow of energy beginning with the stator charging the CDI, followed by timing signals from the pickup coil triggering the capacitor's discharge to the ignition coil, and finally producing a spark at the spark plug.

Common Wire Color Codes and Variations

While the pins' functions remain similar, wire colors may vary by manufacturer. For example:

1. Red or Yellow: Charging input

2. Green or Black: Ground wire
3. White or Blue: Pickup coil signal
4. Black/White or Black/Red: Kill switch
5. Black or Thick Wire: Ignition coil output

These color codes assist technicians in identifying correct connections and prevent wiring errors that could lead to engine malfunction or damage to the CDI box.

Practical Applications and Troubleshooting with a 5 Pin CDI Box Wiring Diagram

The 5 pin CDI box wiring diagram is not only a design blueprint but a practical tool in maintenance and restoration tasks.

Common issues such as engine misfiring, no spark, or intermittent ignition failures often trace back to wiring faults within the CDI system. By referencing the wiring diagram, mechanics can perform systematic checks:

1. **Continuity Testing:** Using a multimeter to verify if wires are intact and correctly connected.
2. **Signal Verification:** Ensuring the pickup coil sends accurate timing pulses to the CDI.
3. **Ground Integrity:** Confirming the ground wire is properly connected to avoid electrical noise or failure.
4. **Kill Switch Functionality:** Checking if the kill switch correctly grounds the CDI to stop the engine.

In many cases, faulty wiring or a damaged connector can be identified and repaired without replacing the entire CDI unit, saving both time and cost.

Comparing 5 Pin CDI Boxes to Other CDI Configurations

While 5 pin CDI boxes are common in many motorcycles and scooters, other configurations exist, such as 3 pin or 7 pin CDI boxes. The number of pins generally correlates with additional functionalities or compatibility with specific engine types.

1. **3 Pin CDI Boxes:** Simplified units often found in smaller engines, with fewer connections for ignition coil, pickup, and ground.
2. **7 Pin CDI Boxes:** More complex systems that may include additional inputs like tachometer signals, variable timing control, or lighting circuits.

For users and technicians, understanding the wiring diagram of the specific CDI box in question is vital. Using a 5 pin CDI box wiring diagram to retrofit or replace a different configuration without proper knowledge can lead to system incompatibilities.

Installation Tips and Best Practices

When installing or rewiring a 5 pin CDI box, adherence to best practices ensures optimal performance and longevity:

1. **Consult OEM Wiring Diagrams:** Manufacturer-provided

diagrams offer precise wire colors and pin layouts for your model.

2. **Use Quality Connectors:** Employ weather-resistant connectors to prevent corrosion and intermittent connections.
3. **Secure Wiring Harness:** Avoid loose wires that may chafe or disconnect due to vibration.
4. **Verify Polarity and Connections:** Double-check all wiring against the 5 pin CDI box wiring diagram before powering on.
5. **Test Before Final Assembly:** Conduct spark and continuity tests to confirm functionality prior to closing engine panels.

These guidelines minimize common errors encountered during CDI box servicing and enhance overall ignition reliability.

Impact of Incorrect Wiring on Engine Performance

Miswiring a 5 pin CDI box can have severe consequences. The ignition timing may be thrown off, leading to poor engine starting, misfiring, or even engine damage due to pre-ignition or detonation. In extreme cases, reversing the polarity on charging wires or misconnecting the kill switch can damage the CDI electronics irreparably. Technicians often report symptoms like no spark or erratic engine behavior that trace back to simple wiring mistakes. Hence, a clear understanding of the 5 pin CDI box wiring diagram is indispensable for accurate diagnosis and repair. In summary, the 5 pin CDI box wiring diagram functions as a critical roadmap for anyone dealing with capacitive discharge ignition systems. Mastery of this diagram empowers

users to troubleshoot effectively, perform installations with confidence, and appreciate the technical nuances of ignition timing control. As motorcycle technology evolves, the fundamental principles embedded in these wiring diagrams remain relevant, underscoring the importance of detailed electrical schematics in vehicle maintenance and repair.

Access to 5 Pin Cdi Box Wiring Diagram has quietly reshaped how people relate to written knowledge. Reading is no longer confined to fixed schedules or specific places. Instead, it adapts to personal routines, individual curiosity, and changing priorities.

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Affordability expands opportunity. When financial barriers are reduced, exploration increases. Readers are more willing to engage with unfamiliar subjects, discover new perspectives, and broaden their intellectual range without hesitation.

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What develops is not just familiarity with content, but confidence in learning itself. The reader knows that understanding can grow gradually, shaped by patience and repeated engagement.

And in that steady rhythm—open, pause, return—knowledge finds its place naturally.

Understanding the 5 Pin CDI Box

The 5 pin CDI (Capacitor Discharge Ignition) box is a critical yet often underappreciated component in modern internal combustion engine vehicles. Its primary function is to regulate ignition timing by controlling the high-voltage pulse delivered to the spark plug, effectively translating engine speed and load into precise spark events. While seemingly simple in appearance, the

wiring diagram governing this device reveals a nuanced interplay of electrical signals, timing logic, and vehicle-specific calibration—making it a linchpin in engine management systems.

Core Wiring Configuration and Signal Flow

At its essence, the 5 pin CDI box uses a standardized 5-pin connector—typically labeled as power (V+), ground, spark plug 1, spark plug 2, and a control/active signal line. The power input supplies the necessary voltage (usually 12–14V) to energize the internal switch and capacitor circuit. Ground pins ensure proper return path, minimizing electrical noise and ensuring stable operation. The two spark plug pins route high-voltage pulses from the CDI's internal capacitor bank to the ignition coil, while the control pin communicates with the engine control unit (ECU) or camshaft position sensor to determine optimal firing timing. This control signal, often derived from crankshaft or camshaft position data, allows the CDI to time the spark with millisecond precision, directly impacting combustion efficiency and engine performance.

Risks and Vulnerabilities in Design and

Despite its robust design, the 5 pin CDI wiring system carries inherent risks, particularly when installation or repairs are

mishandled. Incorrect pin mapping—such as reversing power or ground—can cause rapid capacitor discharge failure or unintended spark timing, leading to misfires, reduced power, or even engine damage. Additionally, exposure to moisture or corrosion at connector terminals risks intermittent conductivity, resulting in erratic spark delivery. In poorly maintained vehicles, aging wiring can degrade insulation, increasing the chance of short circuits or electromagnetic interference (EMI), which may disrupt adjacent vehicle electronics. Furthermore, non-OEM or aftermarket CDI units with incompatible wiring schemes can introduce timing mismatches, undermining engine calibration and fuel economy.

Contextual Role in Modern Engine Management

Within the broader engine control architecture, the 5 pin CDI box sits at a crucial junction between raw mechanical input and sophisticated electronic command. Unlike distributor-based systems, modern CDI units enable coil-on-plug (COP) or direct ignition configurations, eliminating moving parts and enhancing reliability. The control signal pin enables adaptive timing adjustments based on real-time sensor feedback—crank position, engine RPM, load, and even ignition temperature—ensuring optimal spark timing across operating conditions. This responsiveness directly influences emissions compliance, fuel efficiency, and drivability. In this context, accurate CDI wiring is not merely a technical detail but a foundational element of

vehicle performance and environmental responsibility.

Future Outlook and Technological Evolution

As automotive electronics evolve toward hybridization and full electrification, the role of the traditional CDI box is undergoing transformation. While standalone CDI units are being phased out in favor of integrated ignition control modules, their underlying wiring principles persist in advanced systems like coil-on-plug arrays and high-frequency ignition circuits. Future iterations may incorporate digital signal processing, adaptive learning algorithms, and wireless communication with ECUs, enabling even finer control over spark timing. Yet, regardless of technological shifts, the core wiring diagram remains a blueprint for safe, efficient, and reliable ignition function—reminding us that even in an age of complexity, clarity in design and execution endures as the cornerstone of mechanical and electronic synergy.

Questions & Answers About 5 pin cdi box wiring diagram

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1	What is a 5 pin CDI box and how does it work?	A 5 pin CDI (Capacitor Discharge Ignition) box is an electronic ignition component used in motorcycles and scooters. It controls the timing of the spark plug firing by storing and releasing electrical energy, ensuring efficient combustion in the engine.
2	How do I read a 5 pin CDI box wiring diagram?	To read a 5 pin CDI box wiring diagram, identify the five connection points which typically include power input, ignition coil output, pickup coil input, ground, and a kill switch or tachometer output. Follow the color codes and labels in the diagram to connect each wire correctly.
3	What are the typical wire colors and their functions in a 5 pin CDI box wiring diagram?	In a 5 pin CDI box wiring diagram, common wire colors include red for power input, black or green for ground, yellow or white for ignition coil output, and other colors like blue or white for pickup coil input or kill switch. These colors can vary by manufacturer, so always refer to the specific diagram.
4	Can I replace a 5 pin CDI box without a wiring diagram?	It is not recommended to replace a 5 pin CDI box without a wiring diagram because incorrect wiring can damage the ignition system or engine. Using a wiring diagram ensures that all connections are correctly made according to the specific model's requirements.

5	Where can I find a reliable 5 pin CDI box wiring diagram for my motorcycle?	Reliable 5 pin CDI box wiring diagrams can be found in the motorcycle's service manual, official manufacturer websites, or reputable online forums and repair guides specific to your motorcycle model.
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5 pin cdi box wiring, cdi box wiring diagram, 5 pin cdi wiring, motorcycle cdi wiring, cdi ignition wiring, 5 pin cdi connector, cdi box wiring schematic, cdi wiring for bike, 5 pin cdi box connections, cdi box wiring layout

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