

# Yamaha Outboard Cooling Diagram

**yamaha outboard cooling diagram** is an essential visual tool that helps boat owners, technicians, and marine enthusiasts understand the complex process of cooling in Yamaha outboards. Proper cooling is vital for engine performance, longevity, and safety. In this comprehensive guide, we will explore the components of Yamaha outboard cooling systems, interpret typical cooling diagrams, and provide maintenance tips to ensure your engine runs smoothly.

## Understanding Yamaha Outboard Cooling Systems

Yamaha outboard motors are renowned for their durability and efficiency, partly due to their advanced cooling systems. These systems prevent the engine from overheating by circulating coolant or seawater through the engine components. There are two primary types of cooling systems used in Yamaha outboards:

### 1. Water-Driven Cooling System

This is the most common cooling method in Yamaha outboards, especially in smaller models. It uses seawater or freshwater to cool the engine.

### 2. Closed-Loop Cooling System

Typically found in larger or high-performance engines, this system circulates a coolant mixture similar to automotive cooling systems, providing more controlled temperature regulation.

## Components of Yamaha Outboard Cooling Diagram

A typical Yamaha outboard cooling diagram illustrates various interconnected parts working together to maintain optimal engine temperature. Understanding these components is crucial for troubleshooting and maintenance.

### Key Components Include:

1. **Water Intake Screen:** Filters debris from seawater before entering the cooling system.
2. **Water Pump:** Circulates seawater or coolant through the engine.
3. **Impeller:** A key part of the water pump that moves water efficiently.
4. **Thermostat:** Regulates coolant flow based on temperature, ensuring the engine warms up quickly and prevents overheating.
5. **Water Jackets:** Passages surrounding engine cylinders that transfer heat to the

cooling water.

6. **Exhaust Cooling Passages:** Help dissipate heat from exhaust gases.
7. **Heat Exchanger:** Transfers heat from the coolant to seawater in closed-loop systems.
8. **Overboard Water Outlet:** Discharges heated water back into the sea or water body.

## Interpreting the Yamaha Outboard Cooling Diagram

A typical Yamaha outboard cooling diagram visually maps the flow of water or coolant through the engine system. Although specific diagrams may vary between models, the fundamental principles remain consistent.

### Flow Path of Cooling Water

1. **Water Intake:** Water enters through the intake screen, filtering debris and large particles.
2. **Water Pump & Impeller:** The impeller, driven by the engine, moves water into the cooling passages.
3. **Thermostat & Water Jackets:** The water flows through the water jackets, absorbing heat from engine components. The thermostat opens or closes to regulate flow based on temperature.
4. **Heat Exchanger (if present):** In closed-loop systems, water flows through the heat exchanger, transferring heat to coolant or seawater, then exits through the overboard outlet.
5. **Exhaust Passage & Outboard Outlet:** Final stage where heated water exits into the surrounding water body.

### Diagrams and Visual Aids

Many Yamaha outboard cooling diagrams include color-coded lines indicating flow direction, valve positions (such as thermostats), and component locations. These visuals are invaluable for troubleshooting overheating issues or performing maintenance.

## Common Issues Indicated by Cooling System Diagrams

Understanding the cooling diagram helps diagnose common problems, such as:

1. Overheating due to blocked water intakes or impeller failure.
2. Cooling water leaks caused by damaged hoses or seals.
3. Thermostat sticking closed, preventing proper coolant flow.
4. Corrosion or blockages in water jackets or heat exchangers.

By referencing the diagram, technicians can quickly identify where flow may be restricted or disrupted.

# Maintenance Tips for Yamaha Outboard Cooling System

Proper maintenance of the cooling system ensures reliable performance and prolongs engine life. Here are essential tips:

## 1. Regular Inspection of Water Intake Screen

- Check for debris, algae, or obstructions that could restrict water flow. - Clean the screen periodically to prevent clogs.

## 2. Impeller Replacement

- Replace the impeller typically every 2-3 years or after 200 hours of operation. - A faulty impeller can cause overheating or poor water circulation.

## 3. Cooling System Flush

- Flush the cooling system with fresh water after saltwater use to remove salt deposits. - Use a flushing attachment or follow manufacturer guidelines.

## 4. Thermostat Check and Replacement

- Inspect the thermostat for sticking or corrosion. - Replace if malfunctioning to maintain proper engine temperature.

## 5. Inspect Hoses and Seals

- Look for cracks, leaks, or wear. - Replace damaged hoses promptly.

## 6. Monitor Engine Temperature

- Use the engine's temperature gauge to detect abnormal readings. - Investigate high temperatures immediately.

# Reading and Using Yamaha Outboard Cooling Diagrams

To make effective use of cooling diagrams:

1. Identify the specific model of your Yamaha outboard to find the correct diagram.
2. Locate each component in the diagram and cross-reference with your engine.
3. Follow the flow path to understand how water circulates during normal operation.
4. Use the diagram during troubleshooting to identify potential blockages or damaged parts.

Many Yamaha service manuals include detailed diagrams, exploded views, and flow charts to assist in maintenance and repair.

# Conclusion

A thorough understanding of the Yamaha outboard cooling diagram is crucial for maintaining engine health and performance. Recognizing the key components, flow pathways, and common issues allows boat owners and technicians to diagnose problems quickly and perform effective repairs. Regular maintenance, guided by insights from these diagrams, ensures your Yamaha outboard remains reliable, efficient, and safe for every voyage. Whether you're a seasoned marine mechanic or a boat owner eager to learn more, mastering the Yamaha outboard cooling system will enhance your confidence in engine care and troubleshooting. Always consult your specific model's service manual for detailed diagrams and maintenance procedures, and prioritize safety when working on marine engines.

## Yamaha Outboard Cooling Diagram: An In-Depth Guide to Understanding Your Engine's Cooling System

When it comes to maintaining and troubleshooting your Yamaha outboard motor, understanding the Yamaha outboard cooling diagram is essential. The cooling system is a critical component that ensures your engine runs smoothly and efficiently by preventing overheating. Whether you're a seasoned boat owner or a novice, grasping the intricacies of the cooling diagram can save you time, money, and frustration. In this comprehensive guide, we'll explore the components, operation, and maintenance tips related to Yamaha outboard cooling systems, all through the lens of the cooling diagram.

### Why a Yamaha Outboard Cooling Diagram Matters

The cooling diagram provides a visual map of how water circulates through your outboard engine, carrying away heat generated during operation. Yamaha's outboard cooling systems are designed to be robust, but understanding how each part fits together is crucial for diagnosing issues, performing repairs, or conducting routine maintenance. A clear diagram helps identify potential problem areas, clarifies the path of coolant flow, and ensures all components are functioning properly.

### Overview of Yamaha Outboard Cooling System

Before diving into the diagram specifics, let's review the basic principles of Yamaha outboard cooling systems.

### Types of Cooling Systems in Yamaha Outboards

1. **Water Pump Cooling System:** Most Yamaha outboards use a water pump system that draws water from the body of water (lake, river, ocean) and circulates it through the engine.
2. **Closed-Loop Systems (in some models):** These systems recirculate cooled water within the engine, often for smaller or specialized models.

## Key Components

1. Water Pump: Circulates water through the system.
2. Impeller: A key part of the water pump that moves water efficiently.
3. Cooling Water Intake: Openings or ports where water enters the system.
4. Thermostat: Regulates water flow based on engine temperature.
5. Heat Exchanger or Cylinder Cooling Passages: Where heat transfer occurs to cool engine cylinders.
6. Exhaust Water Outlet: Discharges heated water back into the environment.

## Dissecting the Yamaha Outboard Cooling Diagram

A typical Yamaha outboard cooling diagram offers a detailed schematic that highlights the flow path of water and illustrates how components interact. Here's a step-by-step breakdown of what you will generally find.

### 1. Water Intake

1. Located on the lower unit of the outboard.
2. Usually protected by a water intake screen to prevent debris from entering.
3. The intake port directs water into the water pump housing.

### 1. Water Pump and Impeller

1. The water pump impeller is driven by the engine's drive shaft.
2. When the engine runs, the impeller spins, creating a suction effect that pulls water through the intake.
3. The impeller's role is crucial; a damaged or worn impeller can cause overheating.

### 1. Pump Housing and Water Passage

1. The impeller sits inside the pump housing, which channels water into the cooling passages.
2. The pump housing often contains a stainless steel or rubber impeller blades designed to withstand continuous operation.

### 1. Water Passage to the Cylinder Block

1. Water is directed into the engine block's cooling passages.
2. These passages surround the cylinders, absorbing heat from combustion and compression.

### 1. Thermostat Control

1. The thermostat regulates water flow based on engine temperature.
2. When cold, it restricts water flow to help the engine warm up quickly.
3. Once operating temperature is reached, it opens, allowing full water circulation.

## 1. Heat Dissipation

1. Water absorbs heat from the cylinders and passes through the water jacket.
2. In some models, the heated water is routed through a heat exchanger or cylinder head cooling passages for efficient heat transfer.

## 1. Exhaust Water Outlet

1. After absorbing heat, water is expelled through the exhaust outlet.
2. This process cools the engine and discharges warm water back into the environment.

## Visual Guide to Your Yamaha Outboard Cooling Diagram

While diagrams vary slightly among Yamaha models, most follow a similar schematic. Here's an outline of common elements:

1. Lower Unit: Contains water intake and pump.
2. Water Pump Assembly: Impeller, housing, and wear plate.
3. Cooling Passages: Internal channels in the engine block and cylinder heads.
4. Thermostat Housing: Controls coolant flow.
5. Water Outlets: Discharge ports for heated water.
6. Hoses and Clamps: Connect components and ensure a sealed flow path.

## Common Components Highlighted in the Diagram

### Impeller:

A rubber or plastic rotor that rotates to generate water flow. Regular inspection and replacement are vital for preventing overheating.

### Thermostat:

Typically a wax pellet or spring-loaded valve that opens at a specific temperature, allowing water to circulate through the cooling system.

### Water Pump Gasket and Wear Plate:

Ensure a tight seal to prevent leaks that could cause cooling failure.

### Cooling Water Intake Screen:

Prevents debris from damaging the impeller or clogging passages.

### Water Outlets and Hoses:

Guide the flow of cooled water back into the environment, often through the exhaust system.

## Maintenance Tips Based on the Cooling Diagram

Understanding the cooling diagram allows for targeted maintenance:

1. Regularly inspect and replace the impeller: Impellers wear out over time; a faulty impeller reduces water flow.
2. Check the thermostat: Ensure it opens and closes properly to maintain optimal engine temperature.
3. Clean the water intake screen: Remove debris and marine growth to prevent blockages.
4. Examine hoses and clamps: Look for cracks, leaks, or loose fittings.
5. Flush the cooling system: Especially after saltwater use, to prevent corrosion and salt buildup.

### Troubleshooting Using the Cooling Diagram

When your Yamaha outboard shows signs of overheating or cooling issues, the diagram becomes a diagnostic tool:

1. Overheating symptoms: Check the impeller, water intake, and thermostat.
2. No water flow: Confirm the water intake is clear and the impeller is functioning.
3. Leaking water or low water pressure: Inspect hoses, seals, and the water pump housing.
4. Persistent overheating despite a new impeller: Verify the thermostat operation and water passage obstructions.

### Conclusion

A thorough understanding of the Yamaha outboard cooling diagram is invaluable for any boat owner or mechanic. It offers insight into how your engine stays cool, how components interact, and where potential issues might arise. Regular maintenance, guided by this schematic, ensures your Yamaha outboard remains reliable, efficient, and long-lasting. Whether you're performing routine checks or diagnosing problems, keeping the cooling diagram in mind will help you make informed decisions and enjoy smooth sailing season after season.

Discovering **Yamaha Outboard Cooling Diagram** often begins with a need: a topic to understand, a problem to solve, or a skill to improve. What happens next depends on access. When information is available instantly, learning flows naturally instead of being delayed or abandoned.

Having **Yamaha Outboard Cooling Diagram** available in PDF format creates a sense of readiness. The material is there when questions arise, when deadlines approach, or when curiosity strikes unexpectedly. This immediate availability removes friction and keeps momentum alive.

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the content becomes part of the reader's environment, ready to be explored at their own pace.

Flexibility plays a central role in this experience. Whether opened on a laptop during focused study or on a mobile device during brief moments of reflection, the content adapts to the reader's routine. Learning becomes something that fits into life, not something that competes with it.

The structure of a well-prepared PDF supports clarity. Chapters are easy to navigate, sections remain consistent, and visual elements reinforce understanding. This stability is especially valuable for educational and professional materials where precision matters.

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Efficiency matters in a world filled with distractions. Search tools allow readers to locate exact terms or concepts within seconds. This makes the book useful not only for reading from start to finish, but also for quick consultation whenever specific information is needed.

Accessing ***Yamaha Outboard Cooling Diagram*** through trusted platforms ensures confidence. Legal sources protect both readers and creators, offering peace of mind alongside quality content. Knowing that the material is reliable allows full focus on comprehension rather than concern.

Affordability expands opportunity. When high-quality resources are available without excessive cost, readers feel encouraged to explore more freely. Learning becomes driven by interest rather than limitation.

Students benefit from this openness. Study sessions can happen anywhere, notes remain organized, and revision becomes less stressful. The ability to revisit content repeatedly supports long-term retention rather than short-term memorization.

For professionals, ***Yamaha Outboard Cooling Diagram*** becomes a practical asset. It can be consulted during projects, referenced during decision-making, and revisited as experience grows. This ongoing usefulness transforms reading into a long-term investment.

Independent learners often value autonomy. Being able to choose when, how, and how

deeply to engage with a subject strengthens motivation. Learning feels self-directed rather than imposed.

Accessibility features extend inclusion. Adjustable display settings and compatibility with assistive tools allow more readers to engage comfortably, reinforcing equal access to information.

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Global access creates shared understanding. Readers from different regions encounter the same material, often bringing unique perspectives that enrich interpretation. This shared access supports collaboration and collective growth.

Revisiting familiar sections often reveals new insights. As experience grows, the same content can feel different, more relevant, or more nuanced. This layered understanding is a sign of meaningful learning.

With ***Yamaha Outboard Cooling Diagram*** always within reach, learning becomes less about completion and more about engagement. The material remains available whenever attention returns to it.

This availability supports calm, thoughtful exploration. There is no urgency to finish quickly. Progress happens naturally, guided by curiosity and purpose.

Rather than feeling like a one-time download, ***Yamaha Outboard Cooling Diagram*** becomes a companion resource. It waits patiently, adapts to changing needs, and continues to offer value over time.

Choosing to access ***Yamaha Outboard Cooling Diagram*** in this way reflects a commitment to growth, clarity, and informed decision-making. The journey does not end with the final page; it continues through reflection, application, and renewed understanding whenever the material is revisited.

**Questions & Answers About yamaha outboard cooling diagram**

| No | Question | Answer |
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|   |                                                                                                   |                                                                                                                                                                                                                                     |
|---|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | What are the main components shown in a Yamaha outboard cooling diagram?                          | The main components typically include the water pump, water intake, cooling passages, thermostats, and the engine block, all illustrated to show how coolant or water flows through the system.                                     |
| 2 | How does the Yamaha outboard cooling system work according to the diagram?                        | The diagram illustrates that water is drawn in through an intake, circulated via the water pump, passes through cooling passages around the engine, and then exits, helping to regulate engine temperature and prevent overheating. |
| 3 | What are common issues indicated in a Yamaha outboard cooling diagram?                            | Common issues may include clogged water intakes, faulty water pumps, blocked cooling passages, or malfunctioning thermostats, all of which can be identified through the diagram's layout and flow paths.                           |
| 4 | How can I use a Yamaha outboard cooling diagram to troubleshoot overheating problems?             | By following the flow paths in the diagram, you can identify where water flow may be blocked or restricted, check the condition of the water pump, and ensure all cooling passages are clear to resolve overheating issues.         |
| 5 | Are there differences in Yamaha outboard cooling diagrams for different engine models?            | Yes, cooling diagrams vary based on engine size and type, with larger or newer models often featuring more complex cooling systems, so it's important to consult the specific diagram for your model.                               |
| 6 | Where can I find a Yamaha outboard cooling diagram for my specific engine model?                  | You can find detailed cooling diagrams in the Yamaha service manual for your engine, on official Yamaha websites, or through authorized Yamaha dealers and repair centers.                                                          |
| 7 | What maintenance steps are highlighted in the Yamaha outboard cooling diagram?                    | The diagram emphasizes regular checking of water intake screens, inspecting water pump impellers, flushing cooling passages, and replacing thermostats to ensure optimal cooling system performance.                                |
| 8 | How important is understanding the Yamaha outboard cooling diagram for proper engine maintenance? | Understanding the diagram is crucial as it helps identify flow paths, potential problem areas, and necessary maintenance steps, thereby preventing engine damage and ensuring reliable operation.                                   |

Yamaha outboard cooling system, outboard motor cooling diagram, Yamaha engine cooling diagram, outboard cooling water flow, Yamaha outboard parts diagram, cooling water pump Yamaha, outboard cooling system maintenance, Yamaha outboard cooling hose, outboard cooling circuit, Yamaha outboard diagram troubleshooting

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Yamaha Outboard Cooling Diagram eBooks provide structured digital knowledge.

## **Core Discussion**

Digital books help readers maintain productivity.

## **Practical Use**

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## **Conclusion**

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Organizing Yamaha Outboard Cooling Diagram in digital form is an essential step to ensure long-term usability, efficiency, and easy access. As your digital library grows, unorganized files can quickly become difficult to manage, leading to wasted time searching for documents and potential loss of important information. A well-structured organization system helps you maintain control over your collection and improves productivity.

One of the simplest and most effective methods of organization is using clearly labeled folders. Create a main folder dedicated to Yamaha Outboard Cooling Diagram and divide it into subfolders based on categories such as subject, author, year, edition, or format. For example, you might organize folders by topics, academic level, or personal vs professional use. Consistent folder structures make navigation intuitive and reduce confusion.

File naming conventions play a crucial role in organization. Instead of generic file names, use descriptive and consistent naming formats. Including details such as title, author, version, and date can make files easier to identify at a glance. For example, using a format like “Title\_Author\_Edition\_Year.pdf” ensures clarity and avoids duplicate confusion. Consistency is key—choose a naming system and apply it uniformly across all Yamaha Outboard Cooling Diagram files.

Tagging files is another powerful organizational strategy. Many operating systems and cloud storage platforms support file tags or labels. Tags allow you to categorize Yamaha Outboard Cooling Diagram across multiple dimensions without duplicating files. For example, a single document can be tagged as “study,” “reference,” “important,” or “exam prep.” This makes retrieval faster when searching your library.

For collections involving multiple volumes or editions, version control is essential. Keeping track of revisions ensures that you always know which version is the most

current or authoritative. You can use version numbers in file names or create a separate folder for archived editions. This practice is especially important for academic, technical, or professional Yamaha Outboard Cooling Diagram materials that may be updated regularly.

### **Using cloud storage for organization**

Cloud storage services such as Google Drive, Dropbox, and OneDrive offer advanced tools for organizing Yamaha Outboard Cooling Diagram. These platforms allow folder hierarchies, tagging, search functionality, and cross-device access. Cloud storage also provides automatic backups, reducing the risk of data loss due to device failure.

Search functionality within cloud platforms is particularly valuable. Many services can search not only file names but also text within PDFs, making it easy to locate specific content inside Yamaha Outboard Cooling Diagram documents. This feature saves significant time, especially when working with large libraries or research materials.

Sharing controls in cloud storage further enhance organization. You can manage access permissions, track shared links, and maintain privacy. This is useful when collaborating with others or distributing selected Yamaha Outboard Cooling Diagram files while keeping the rest of your library private.

### **Offline Access**

Offline access is one of the most important advantages of digital copies of Yamaha Outboard Cooling Diagram. Downloading files for offline reading ensures uninterrupted access regardless of internet availability. This is especially useful during travel, commuting, or in locations with limited or unreliable connectivity.

Most eBook platforms and cloud storage services allow users to mark files for offline access. Once downloaded, Yamaha Outboard Cooling Diagram can be read, annotated, and bookmarked without an active internet connection. Changes made offline are often synced automatically once the device reconnects to the internet, ensuring continuity across devices.

Syncing devices enhances the offline experience. When your devices are connected to the same account, progress, bookmarks, highlights, and notes can be synchronized seamlessly. This means you can start reading Yamaha Outboard Cooling Diagram on one device and continue on another without losing your place. Synchronization is particularly valuable for users who switch between smartphones, tablets, and computers.

To optimize offline access, it is important to manage storage space effectively. Large

PDF libraries can consume significant storage, especially on mobile devices. Regularly reviewing downloaded files and removing those no longer needed helps maintain sufficient space while keeping essential Yamaha Outboard Cooling Diagram materials available offline.

### **Backup strategies for offline libraries**

Even with offline access, backups remain essential. Maintaining copies of your Yamaha Outboard Cooling Diagram library on external drives or secondary cloud accounts provides additional protection against data loss. Periodic backups ensure that your organized collection remains safe and recoverable in case of device failure or accidental deletion.

### **Interactive Elements**

Some digital versions of Yamaha Outboard Cooling Diagram go beyond static text by incorporating interactive elements designed to enhance engagement and retention. These features transform traditional reading into a more dynamic and immersive experience, particularly for educational and instructional content.

Interactive elements may include multimedia such as embedded audio, video explanations, animations, or hyperlinks to additional resources. These features provide context, demonstrations, and real-world examples that support deeper understanding. For learners, multimedia content can make complex topics easier to grasp and more memorable.

Quizzes and exercises are another common interactive feature. These elements allow readers to test their understanding of Yamaha Outboard Cooling Diagram content immediately after reading. Interactive quizzes provide instant feedback, reinforcing learning and helping identify areas that need further review. This approach is especially effective for students, trainees, and self-learners.

Some interactive Yamaha Outboard Cooling Diagram editions also include clickable tables of contents, internal navigation links, and progress indicators. These tools improve usability by allowing readers to move quickly between sections and track their progress. Enhanced navigation is particularly valuable for long or complex documents.

### **Device and platform compatibility**

Interactive features may require specific apps or platforms to function properly. Not all PDF readers or eBook apps support advanced multimedia or interactive elements. Before downloading or purchasing an interactive version of Yamaha Outboard Cooling Diagram, it is important to verify compatibility with your devices and preferred reading software.

Interactive content may also increase file size and resource usage. Devices with limited storage or processing power may experience slower performance. Understanding these requirements helps ensure a smooth reading experience without technical issues.

### **Balancing interactivity and focus**

While interactive elements enhance engagement, moderation is important. Too many distractions can interrupt reading flow and reduce concentration. Choosing interactive Yamaha Outboard Cooling Diagram editions that balance content and features ensures that interactivity supports learning rather than detracting from it.

Some readers prefer to disable certain interactive features or use simplified reading modes when focusing on deep study. The flexibility to customize the reading experience allows users to adapt Yamaha Outboard Cooling Diagram to different contexts, such as quick review versus in-depth learning.

### **Best practices for managing interactive Yamaha Outboard Cooling Diagram**

- Keep interactive files organized separately if they require specific apps or platforms.
- Test interactive features before relying on them for study or teaching.
- Ensure offline availability if interactive content is needed without internet access.
- Maintain updated software to support multimedia and security features.
- Balance interactive use with focused reading sessions.

### **Long-term organization strategies**

As your collection of Yamaha Outboard Cooling Diagram grows, periodically reviewing and reorganizing your library helps maintain efficiency. Removing outdated files, updating versions, and refining folder structures keeps your system clean and functional. Long-term organization is not a one-time task but an ongoing process that evolves with your needs.

### **Final thoughts on organizing Yamaha Outboard Cooling Diagram**

Effective organization, reliable offline access, and thoughtful use of interactive elements significantly enhance the value of digital Yamaha Outboard Cooling Diagram. By implementing structured folders, consistent naming, cloud synchronization, and backup strategies, users can maintain a clean and accessible library. Interactive features further enrich the reading experience when used appropriately. Together, these practices ensure that Yamaha Outboard Cooling Diagram remains easy to manage, enjoyable to read, and highly effective as a long-term digital resource.