

Yamaha 135 5 speed service manual Ebook

yamaha 135 5 speed service manual is an essential resource for motorcycle enthusiasts, mechanics, and owners seeking comprehensive guidance on maintaining, repairing, and troubleshooting this classic model. Proper service and maintenance are crucial to ensure optimal performance, longevity, and safety of your Yamaha 135 5 Speed motorcycle. In this article, we will explore what the service manual offers, how to access it, key maintenance procedures, common issues, and tips for keeping your bike in top condition.

Understanding the Yamaha 135 5 Speed Service Manual

What is a Service Manual?

A service manual is an official technical document provided by the manufacturer that contains detailed instructions, specifications, diagrams, and procedures necessary to repair and maintain a specific motorcycle model. For the Yamaha 135 5 Speed, the manual covers everything from routine maintenance to complex repairs.

Why is the Service Manual Important?

- **Accurate Repairs:** Ensures repairs are performed correctly, preventing damage.
- **Safety Assurance:** Guides proper handling of critical components to avoid accidents.
- **Cost Efficiency:** Helps DIY enthusiasts save on labor costs.
- **Extended Bike Life:** Facilitates regular maintenance that prolongs the lifespan of the motorcycle.

Contents of the Yamaha 135 5 Speed Service Manual

The service manual typically includes:

- **General Information:** Model specifications, parts list, and safety precautions.
- **Engine Diagnosis and Repair:** Troubleshooting engine problems, rebuilding procedures, and tuning.
- **Transmission & Clutch:** Details on 5-speed gear system, clutch adjustment, and repairs.
- **Fuel System:** Carburetor cleaning, fuel line replacement, and fuel pump maintenance.
- **Electrical System:** Wiring diagrams, battery maintenance, lighting, and ignition troubleshooting.
- **Chassis & Suspension:** Frame inspection, fork and shock absorber servicing.
- **Routine Maintenance:** Oil changes, brake adjustments, tire replacement, and lubrication

schedules.

- **Special Tools & Troubleshooting:** Recommended tools for repairs and common fault diagnosis guides.

How to Access the Yamaha 135 5 Speed Service Manual

Official Sources

- Yamaha Dealerships: Authorized service centers often provide access to official manuals.
- Yamaha Official Website: Sometimes offers downloadable PDF manuals for registered users.
- Authorized Distributors: Can supply printed or digital copies.

Third-Party and Online Resources

- Online Forums and Communities: Websites like Yamaha forums or motorcycle repair communities often share manuals or links.
- Manual Download Websites: Platforms such as ManualsLib, Scribd, or other specialized sites offer scanned copies (ensure legitimacy and safety before downloading).
- E-commerce Platforms: Amazon, eBay, or specialized motorcycle parts stores may sell printed manuals or CD versions.

Important Tips When Using Service Manuals

- Always verify the manual's compatibility with your specific Yamaha 135 5 Speed model year.
- Use the latest edition for the most updated procedures.
- Cross-reference with OEM parts for accuracy.

Key Maintenance Procedures in the Yamaha 135 5 Speed Service Manual

Regular Oil Change

Maintaining clean engine oil is vital for engine longevity. The manual provides step-by-step guidance on draining, replacing, and choosing the right oil type.

Clutch Adjustment

Proper clutch adjustment ensures smooth gear shifts. The manual describes how to check and set

clutch free play and cable tension.

Carburetor Tuning

Optimizing the carburetor improves throttle response and fuel efficiency. Instructions include cleaning, jet adjustment, and synchronization.

Brake System Maintenance

Effective braking is essential for safety. The manual covers brake pad replacement, fluid bleeding, and caliper inspection.

Electrical System Checks

Troubleshooting electrical issues such as faulty wiring or defective bulbs is facilitated through wiring diagrams and component testing procedures.

Common Issues and Troubleshooting Tips

Engine Not Starting

- Check the spark plug for fouling or damage.
- Inspect the fuel supply and carburetor.
- Verify electrical connections and the ignition coil.

Gear Shifting Problems

- Adjust clutch free play as per manual instructions.
- Inspect the gear shift lever and linkage.
- Examine the transmission oil level and condition.

Overheating

- Ensure proper coolant levels if applicable.
- Clean radiator and cooling fins.
- Check for proper airflow and radiator fan operation.

Electrical Failures

- Test the battery voltage and connections.
- Inspect wiring harnesses for damage.
- Replace blown fuses or faulty switches.

Tips for Maintaining Your Yamaha 135 5 Speed

- **Follow the Maintenance Schedule:** Regularly adhere to the intervals specified in the manual.
- **Use OEM Parts:** Original equipment manufacturer parts ensure compatibility and durability.
- **Keep Records:** Maintain a log of repairs, replacements, and service dates.
- **Practice Safe Repairs:** Always disconnect the battery before working on electrical components.
- **Consult Professionals When Needed:** For complex repairs beyond your skill level, seek qualified mechanics.

Conclusion

The **yamaha 135 5 speed service manual** is an invaluable tool for anyone looking to maintain or repair this reliable motorcycle. Having access to detailed procedures, specifications, and troubleshooting guides ensures that your Yamaha 135 5 Speed remains in excellent condition, performs optimally, and provides safe riding experiences. Whether you're a seasoned mechanic or a motorcycle owner eager to learn, investing in or sourcing the correct service manual is a wise decision. Proper maintenance guided by the manual prolongs the life of your bike and enhances your riding enjoyment for years to come.

Yamaha 135 5 Speed Service Manual: A Comprehensive Guide for Maintenance and Repairs

Introduction

Yamaha 135 5 speed service manual is an essential resource for motorcycle enthusiasts, mechanics, and owners who aim to maintain their bikes in optimal condition. Known for its reliability, performance, and durability, the Yamaha 135 has garnered a loyal following among riders worldwide. However, to ensure the longevity and smooth operation of this model, understanding its service manual is crucial. This detailed guide will explore the key components, maintenance procedures, troubleshooting tips, and how to effectively utilize the Yamaha 135 5 speed service manual to keep your motorcycle running flawlessly.

Understanding the Yamaha 135 5 Speed Model

Before diving into maintenance specifics, it's vital to understand what makes the Yamaha 135 5 speed unique.

Overview of the Yamaha 135

The Yamaha 135, also known as the Yamaha Y135LC in some regions, is a lightweight, fuel-efficient motorcycle renowned for its sporty design and dependable performance. It features a 135cc single-cylinder, four-stroke engine coupled with a 5-speed constant mesh transmission, making it ideal for city commuting and short-distance travel.

Key Specifications

- Engine Type: 135cc, 4-stroke, single-cylinder
- Cooling System: Air-cooled
- Transmission: 5-speed constant mesh
- Fuel System: Carburetor-based (varies by model year)
- Ignition System: CDI (Capacitor Discharge Ignition)
- Brakes: Drum brakes front and rear (disc brakes in some variants)
- Weight: Approximately 98 kg (varies slightly by model)

Having a solid grasp of these specifications helps in understanding the maintenance procedures outlined in the service manual.

The Importance of the Yamaha 135 5 Speed Service Manual

The service manual serves as the authoritative guide for diagnosing issues, performing routine maintenance, and executing repairs. It contains detailed diagrams, specifications, and step-by-step instructions tailored specifically for the Yamaha 135 5 speed model.

Benefits of Using the Service Manual

- Accurate Troubleshooting: Identifies common problems and their solutions.
- Proper Maintenance: Guides on scheduled service intervals for optimum performance.
- Parts Identification: Helps in sourcing correct replacement components.
- Cost-Effective Repairs: Enables owners to perform basic repairs themselves, saving labor costs.
- Safety Assurance: Ensures repairs are done correctly, reducing hazards.

Access to the manual is often provided by Yamaha authorized service centers, or through authorized online platforms and third-party publishers. It's advisable to obtain a genuine manual for precise guidance.

Core Sections of the Yamaha 135 5 Speed Service Manual

A typical Yamaha 135 5 speed service manual is organized into several key sections, each serving specific maintenance and repair functions:

- General Information

- Model specifications
- Technical data
- Tool requirements
- Safety precautions

- Engine Overhaul and Maintenance

- Engine disassembly and assembly procedures
- Lubrication points and oil change instructions
- Spark plug inspection and replacement
- Valve clearance adjustment
- Compression testing

- Transmission and Clutch

- Gearbox disassembly and inspection
- Clutch operation and adjustment
- Synchronization of gears
- Troubleshooting transmission issues

- Fuel System

- Carburetor cleaning and tuning
- Fuel line inspection
- Float level adjustment

- Electrical System

- Wiring diagram
- CDI unit troubleshooting
- Ignition coil testing
- Battery maintenance

- Brake System

- Drum brake disassembly
- Brake shoe inspection
- Brake drum measurement
- Brake fluid maintenance (if applicable)

- Suspension and Chassis

- Front and rear suspension maintenance
- Wheel alignment
- Tire inspection and replacement

- Body and Frame

- Frame inspection
- Body panel removal and reinstallation

Performing Routine Maintenance Using the Service Manual

Adhering to the recommended maintenance schedule outlined in the manual ensures the Yamaha 135 remains in top condition. Here are some essential procedures:

Oil Change

Regular oil changes are critical for engine longevity. The manual provides specific oil grade recommendations and the process for draining and refilling the engine oil.

Spark Plug Maintenance

- Inspect for wear or fouling
- Replace if necessary
- Adjust spark plug gap as per specifications

Air Filter Cleaning

- Remove the air filter
- Clean or replace based on condition
- Reinstall properly to prevent dust ingress

Chain Maintenance

- Lubricate the chain regularly
- Adjust tension according to manual specifications
- Inspect for wear and replace if necessary

Brake Inspection

- Check brake shoe lining thickness
- Measure brake drum diameter
- Adjust brake tension for optimal performance

Troubleshooting Common Issues

The Yamaha 135 5 speed manual equips owners with solutions for frequent problems:

Issue	Possible Cause	Recommended Action
Engine stalls or misfires	Spark plug fouling, carburetor blockage	Clean or replace spark plug, clean carburetor
Difficulty shifting gears	Clutch adjustment, gear linkage issues	Adjust clutch cable, check gear shift linkage
Loss of power	Air filter clogging, fuel restrictions	Clean/replace air filter, inspect fuel lines

| Excessive vibration | Wheel imbalance, worn suspension components | Balance wheels, inspect suspension parts |

Having the manual on hand streamlines these troubleshooting steps and helps in diagnosing issues efficiently.

Repair Tips and Safety Precautions

While the manual empowers owners to perform many repairs, safety must always come first:

- Always wear protective gear.
- Use proper tools as specified in the manual.
- Disconnect the battery when working on electrical components.
- Follow torque specifications meticulously.
- Keep work areas clean and organized.

For complex repairs, such as engine overhaul or frame welding, professional assistance is recommended.

Where to Access the Yamaha 135 5 Speed Service Manual

Owners can obtain the manual through various channels:

- Authorized Yamaha Dealerships: Often provide printed manuals or digital copies.
- Official Yamaha Website: Some regions offer downloadable PDFs.
- Third-Party Publishers: Reliable online platforms offer manuals for purchase or free download.
- Online Forums and Communities: Enthusiast groups may share scanned copies or tips.

It is advisable to use official or reputable sources to ensure the manual's accuracy and completeness.

Conclusion

The *Yamaha 135 5 speed service manual* is an invaluable tool for maintaining, repairing, and understanding this popular motorcycle model. Whether you are a seasoned mechanic or a passionate owner, leveraging the detailed instructions and diagrams within the manual ensures your Yamaha 135 continues to deliver reliable performance. Regular maintenance, informed troubleshooting, and proper repair practices rooted in the manual's guidance not only prolong the lifespan of your motorcycle but also enhance safety and riding pleasure. Invest in a genuine service

manual, familiarize yourself with its contents, and enjoy the confidence that comes with knowing your Yamaha 135 is well cared for.

Question Where can I find the official Yamaha 135 5-speed service manual? The official Yamaha 135 5-speed service manual is usually available through authorized Yamaha dealerships, official Yamaha website, or authorized online parts and service manual retailers. **What are the key maintenance points covered in the Yamaha 135 5-speed service manual?** The manual covers engine tuning, oil changes, transmission adjustments, brake maintenance, electrical system troubleshooting, and routine inspections to keep your Yamaha 135 running smoothly. **How do I troubleshoot common issues using the Yamaha 135 5-speed service manual?** The manual provides detailed troubleshooting procedures for common problems like starting issues, power loss, or abnormal noises, including step-by-step diagnostic steps and solutions. **Does the Yamaha 135 5-speed service manual include wiring diagrams?** Yes, the manual includes comprehensive wiring diagrams to assist with electrical repairs and troubleshooting. **Can I perform my own repairs on the Yamaha 135 5-speed using the service manual?** Yes, if you have basic mechanical skills and follow the instructions carefully, the service manual provides all necessary guidance for DIY repairs and maintenance. **Is there a digital version of the Yamaha 135 5-speed service manual available?** Yes, digital versions of the service manual are often available for download from official sources or authorized manual providers. **What are the recommended service intervals for the Yamaha 135 5-speed as per the manual?** The manual recommends regular checks and services every few hundred kilometers or months, including oil changes, chain adjustments, and brake inspections, as specified in the maintenance schedule. **How detailed is the Yamaha 135 5-speed service manual in terms of engine repair?** The manual provides detailed instructions on engine disassembly, inspection, repair, and reassembly, making it suitable for both novice and experienced mechanics. **Are there any safety precautions outlined in the Yamaha 135 5-speed service manual?** Yes, the manual emphasizes safety procedures such as disconnecting the battery, proper lifting techniques, and wearing protective gear during repairs to prevent accidents.

Related keywords: Yamaha 135 5 speed repair guide, Yamaha 135 5 speed maintenance manual, Yamaha 135 5 speed parts diagram, Yamaha 135 engine manual, Yamaha 135 transmission service, Yamaha 135 gearbox repair, Yamaha 135 clutch adjustment, Yamaha 135 5 speed troubleshooting, Yamaha 135 5 speed user manual, Yamaha 135 5 speed technical manual

speed and distance practice a answer key

Speed and Distance Practice A Answer Key

Understanding how to accurately solve problems related to speed and distance is essential for

students preparing for exams, especially in mathematics and physics. Practice questions help reinforce concepts, improve problem-solving skills, and build confidence. In this article, we will provide a comprehensive speed and distance practice A answer key, along with detailed explanations to help you grasp the core principles behind each problem. Whether you're a student studying for a test or a teacher preparing practice materials, this guide will serve as a valuable resource.

Understanding the Basics of Speed and Distance

Before diving into practice problems, it's important to review the fundamental concepts that underpin speed and distance calculations.

Key Formulas

- **Speed = Distance / Time**
- **Distance = Speed × Time**
- **Time = Distance / Speed**

These formulas are the foundation for solving most speed and distance problems. Remember to keep units consistent, e.g., if speed is in km/h, distance in km, and time in hours.

Practice Problem Set and Answer Key

Below are typical practice questions related to speed and distance, followed by their detailed solutions.

Question 1:

A car travels 240 km in 4 hours. What is its average speed?

Answer 1:

To find the average speed, use the formula:

$$\text{Speed} = \text{Distance} / \text{Time}$$

Substitute the given values:

$$\text{Speed} = 240 \text{ km} / 4 \text{ hours} = 60 \text{ km/h}$$

Answer: The car's average speed is 60 km/h.

Question 2:

A cyclist covers a distance of 90 km at a speed of 15 km/h. How long does the journey take?

Answer 2:

Using the formula:

$$\text{Time} = \text{Distance} / \text{Speed}$$

$$\text{Time} = 90 \text{ km} / 15 \text{ km/h} = 6 \text{ hours}$$

Answer: The journey takes 6 hours.

Question 3:

An airplane flies at a speed of 900 km/h for 3 hours. How far does it travel?

Answer 3:

Apply the distance formula:

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$\text{Distance} = 900 \text{ km/h} \times 3 \text{ hours} = 2700 \text{ km}$$

Answer: The airplane travels 2700 km.

Question 4:

A runner completes a 10 km race in 50 minutes. What is their average speed in km/h?

Answer 4:

First, convert minutes to hours:

$$50 \text{ minutes} = 50 / 60 = 5 / 6 \text{ hours} \approx 0.833 \text{ hours}$$

Now, use the speed formula:

Speed = Distance / Time

Speed = 10 km / (5/6 hours) = 10 km $\times$ (6/5) = 12 km/h

Answer: The runner's average speed is 12 km/h.

Question 5:

Two cars start from the same point and travel in the same direction. Car A travels at 80 km/h, and Car B at 100 km/h. How long will it take for Car B to catch up with Car A if Car A has a 20 km head start?

Answer 5:

This is a problem of relative speed.

- Relative speed of Car B with respect to Car A = 100 km/h - 80 km/h = 20 km/h
- Distance to cover = 20 km (head start)

Time taken to catch up:

Time = Distance / Relative speed = 20 km / 20 km/h = 1 hour

Answer: It will take 1 hour for Car B to catch Car A.

Tips for Solving Speed and Distance Problems

Understanding common pitfalls and strategies can help improve accuracy.

1. Keep Units Consistent

Always ensure that the units for distance, speed, and time are compatible. Convert units where necessary before calculations.

2. Use Formulas Appropriately

Identify which formula applies to the problem. For example, if you have distance and time, find speed; if you have speed and time, find distance.

3. Break Down Complex Problems

For multi-step problems, write down what is known and what you need to find before setting up equations.

4. Practice Word Problems

Work through various scenarios to develop a flexible understanding of how different variables relate.

Additional Practice Questions for Mastery

To further reinforce your understanding, here are additional questions:

- Calculate the speed of a train that covers 500 km in 5 hours.
- If a boat travels at 30 km/h downstream and takes 2 hours to reach a point 60 km away, what is its upstream speed if it takes 3 hours to return?
- A motorbike accelerates uniformly from 20 km/h to 60 km/h in 5 seconds. What is its acceleration?

Answers:

- Speed = $500 \text{ km} / 5 \text{ hours} = 100 \text{ km/h}$
- Downstream speed = $60 \text{ km} / 2 \text{ hours} = 30 \text{ km/h}$

Upstream speed = Distance / Time = $60 \text{ km} / 3 \text{ hours} = 20 \text{ km/h}$

- Acceleration = (Final velocity - Initial velocity) / Time

Convert velocities to m/s: $20 \text{ km/h} = 20 \times (1000/3600) \approx 5.56 \text{ m/s}$

$60 \text{ km/h} \approx 16.67 \text{ m/s}$

Acceleration = $(16.67 - 5.56) \text{ m/s} / 5 \text{ s} \approx 2.22 \text{ m/s}^2$

Conclusion

Mastering speed and distance problems requires a clear understanding of formulas, consistent unit conversion, and strategic problem-solving. The speed and distance practice A answer key provided

here aims to clarify common question types and their solutions, serving as a solid resource for learners. Regular practice using these types of problems will enhance your ability to quickly and accurately solve speed and distance questions, whether for exams or real-world applications. Remember, consistent practice and a thorough grasp of the fundamentals are key to success.

Speed and Distance Practice Answer Key: A Comprehensive Guide to Mastering Speed and Distance Problems

Understanding speed and distance practice answer key is essential for students preparing for exams that involve kinematic concepts, such as physics tests, standardized assessments, or competitive exams. These practice questions help reinforce fundamental principles, improve problem-solving skills, and build confidence in tackling real-world scenarios involving motion. In this guide, we will explore the core concepts, common question formats, strategies for solving, and how to interpret answer keys effectively.

Introduction to Speed and Distance Problems

Speed and distance problems are a staple in many mathematics and physics curricula because they provide practical insights into the relationship between how fast something is moving, the distance it covers, and the time taken. These problems often involve the basic formula:

$$\text{Speed} = \text{Distance} / \text{Time}$$

or equivalently,

$$\text{Distance} = \text{Speed} \times \text{Time}$$

and sometimes require solving for any of these variables when given the other two.

Why Practice with Answer Keys?

Utilizing speed and distance practice answer key resources offers several benefits:

- Immediate Feedback: Quickly verify your solutions to understand where mistakes may have occurred.
- Understanding Problem Variations: Exposure to different question types helps develop flexible problem-solving skills.
- Building Confidence: Repeated practice with answer keys enhances accuracy and speed.
- Preparation for Exams: Familiarity with common question formats reduces exam anxiety.

Types of Speed and Distance Practice Questions

Speed and distance problems can vary in complexity and format. Here are common types:

- Basic Speed, Distance, and Time Problems
- Example: A car travels 150 miles in 3 hours. What is its average speed?
- Relative Speed Problems
- Example: Two trains leave opposite ends of a track and move towards each other. Find the time until they meet given their speeds and the starting distance.
- Multiple-Stage Problems
- Example: A person walks for 2 hours at 3 mph, then bikes for 1 hour at 9 mph. Find the total distance traveled.
- Speed and Time with Variable Speeds
- Example: A runner accelerates during a race. How does this affect average speed calculations?

Core Strategies for Solving Speed and Distance Questions

Step 1: Identify Known Variables

Read the problem carefully and note down:

- Distance (d)
- Speed (s)
- Time (t)

Step 2: Determine What You Need to Find

Clarify whether the question asks for speed, distance, or time.

Step 3: Choose the Appropriate Formula

Recall the basic relationships:

- $\text{Speed} = \text{Distance} / \text{Time}$
- $\text{Distance} = \text{Speed} \times \text{Time}$
- $\text{Time} = \text{Distance} / \text{Speed}$

Step 4: Set Up the Equation

Translate the problem into an algebraic equation based on knowns and unknowns.

Step 5: Solve and Check Units

Ensure units are consistent (miles/hour, km/hour, meters/second) before solving.

Step 6: Verify Your Answer

Check if the answer makes sense in the context of the problem.

Interpreting the Answer Key

An answer key provides the correct solutions to practice questions. When reviewing:

- Compare your solution steps with the answer key's methodology.
- Check calculations for arithmetic errors.
- Understand alternative solutions if provided.
- Review explanations to grasp the reasoning behind correct answers.

Sample Problem with Answer Key Breakdown

Question: A cyclist travels 60 miles at a constant speed. If the trip takes 4 hours, what is the cyclist's average speed?

Solution:

- Identify variables:

- Distance (d) = 60 miles
- Time (t) = 4 hours
- Speed (s) = ?

- Use the formula:

$$s = d / t$$

- Substitute knowns:

$$s = 60 \text{ miles} / 4 \text{ hours}$$

- Calculate:

$$s = 15 \text{ miles/hour}$$

Answer: The cyclist's average speed is 15 miles per hour.

Tips for Effective Practice Using Answer Keys

- Attempt problems independently before consulting the answer key.
- Use the answer key to understand mistakes, not just to verify answers.
- Practice regularly to improve speed and accuracy.
- Create a error log to track recurring mistakes and focus on those areas.
- Work through explanations provided in the answer key to deepen understanding.

Common Pitfalls and How to Avoid Them

- Misreading the question: Always double-check what is being asked.
- Ignoring units: Ensure units are consistent throughout calculations.
- Rushing calculations: Take your time to avoid simple arithmetic errors.
- Assuming constant speed: Clarify whether the problem specifies uniform or variable speed.

Conclusion

Mastering speed and distance practice answer key exercises is crucial for excelling in exams that test understanding of motion concepts. By systematically applying problem-solving strategies, interpreting answer keys carefully, and learning from mistakes, students can significantly improve their competency in these topics. Remember, consistent practice coupled with thoughtful review of answers and explanations is the key to becoming proficient in solving speed, distance, and time problems efficiently and accurately.

Final Thoughts

Whether you're a student preparing for a physics test, a math exam, or simply looking to strengthen your understanding of basic kinematic principles, using practice questions with detailed answer keys is an effective way to learn. Keep practicing, stay curious, and use each problem as a stepping stone toward mastering the concepts of speed, distance, and time.

Question What is the basic formula to calculate speed in a speed-distance-time problem? The basic formula is $\text{Speed} = \text{Distance} / \text{Time}$. How do you find the distance traveled when speed and time are given? Use the formula $\text{Distance} = \text{Speed} \times \text{Time}$. If a car travels at 60 km/h for 2 hours, what is the total distance covered? $\text{Distance} = 60 \text{ km/h} \times 2 \text{ hours} = 120 \text{ km}$. In a practice problem, if a train covers 240 km in 4 hours, what is its speed? $\text{Speed} = 240 \text{ km} / 4 \text{ hours} = 60 \text{ km/h}$. Why is understanding the relationship between speed, distance, and time important for solving practice problems? Because it allows you to set up and solve equations accurately, helping to find missing values in various real-world scenarios efficiently.

Related keywords: speed practice, distance calculations, physics practice, speed and distance worksheet, motion problems, velocity and time exercises, kinematics practice, speed distance problems answers, physics answer key, motion worksheet solutions

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