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AlveyTech 428 Open Loop Chain

AlveyTech 428 ATV & Dirt Bike Open Loop Chain User Manual

Model: 428 Open Loop Chain

1. Introduction

This manual provides essential information for the proper use, installation, and maintenance of your AlveyTech 428 ATV & Dirt Bike Open Loop Chain. Please read this manual thoroughly before installation and operation to ensure safety and optimal performance.

The AlveyTech 428 chain is a durable roller chain designed for use on motorcycles, dirt bikes, pit bikes, ATVs, and go-karts. It comes as a 10-foot open loop chain with a 1/2-inch pitch and includes a master link for easy connection.

2. Product Overview



Image 2.1: The AlveyTech 428 Open Loop Chain, showing its full length and open ends.

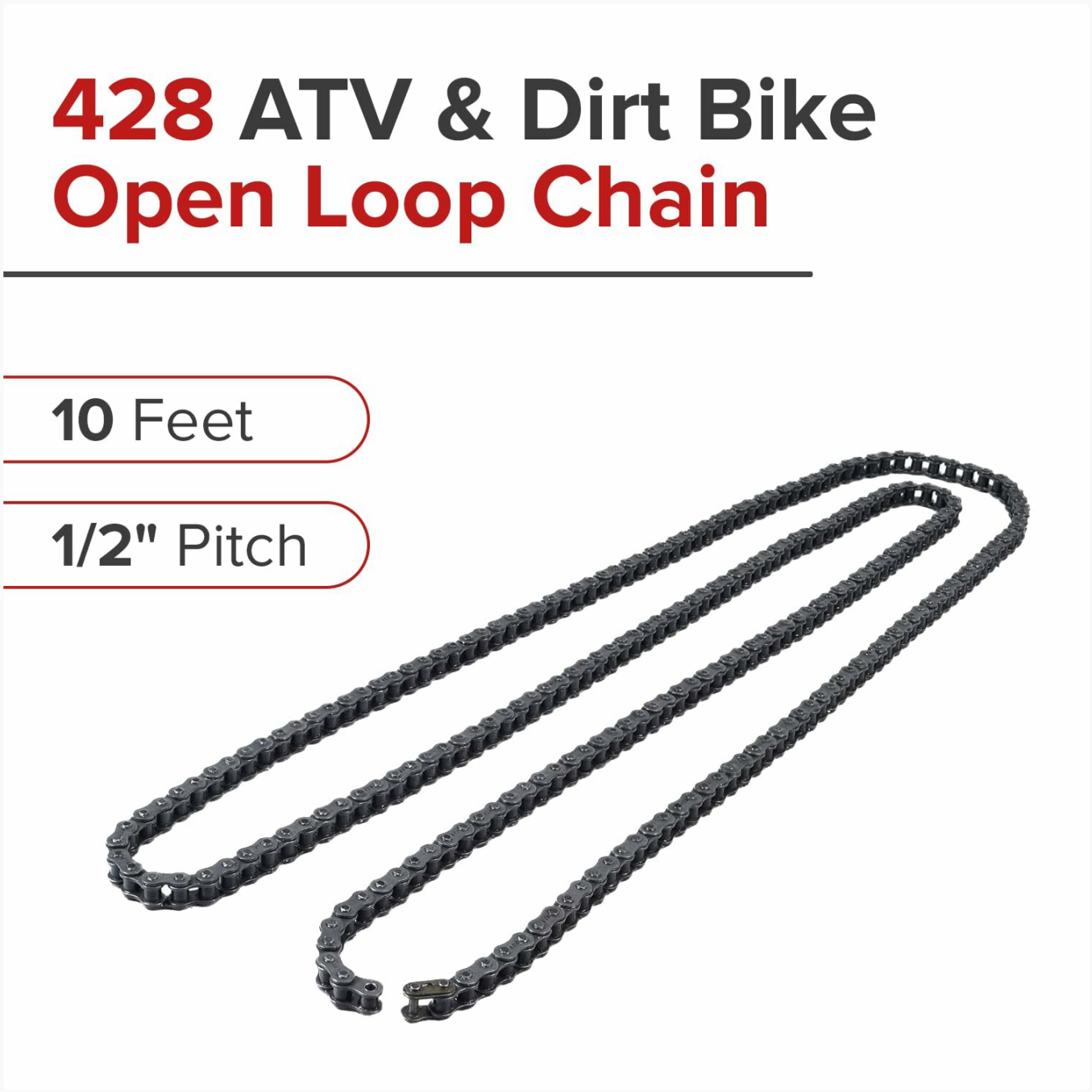


Image 2.2: The 428 ATV & Dirt Bike Open Loop Chain, highlighting its 10-foot length and 1/2-inch pitch.



Image 2.3: Components of the included master link, which simplifies chain installation.

The chain is constructed from alloy steel and carbon steel, ensuring durability and a load capacity of 4.28E+3 lbf. It is a single strand type chain.

3. Specifications

Feature	Specification
Chain Size	428
Overall Length	10 feet (approx. 3.05 meters)
Pitch	1/2 inch (12.7 mm)
Material	Alloy Steel, Carbon Steel

Feature	Specification
Strand Type	Single
Load Capacity	4.28E+3 lbf
Included Components	10 ft. chain, 1 master link

Note: Always verify your chain size against the specifications provided or by checking the size stamp on your existing chain before purchase and installation.

4. Compatibility

This 428 ATV & dirt bike chain is compatible with various makes and models, including but not limited to:

- Baja Motorsports Dirt Runners
- Coolster
- Panterra
- Redcat
- Tank
- TaoTao

It may also be used on some Super Pocket Bikes and Dune Buggies. Always confirm the required chain size for your specific vehicle before installation.



Image 4.1: Examples of vehicles, including an ATV and dirt bikes, that may use this chain.

5. Setup and Installation

Installing the AlveyTech 428 chain requires basic mechanical knowledge and tools. If you are unsure about any step, consult a qualified mechanic.

5.1. Tools Required

- Chain breaker tool (if shortening the chain)
- Pliers or master link tool
- Measuring tape
- Gloves and safety glasses

5.2. Installation Steps

1. **Preparation:** Ensure the vehicle is stable and turned off. Remove the old chain if present. Clean the sprockets

thoroughly.

2. **Measure and Cut (if necessary):** The chain comes in a 10-foot length. If your application requires a shorter chain, carefully measure the required length and use a chain breaker tool to remove excess links. **Caution:** Measure twice, cut once.
3. **Route the Chain:** Carefully route the new chain around the front and rear sprockets.
4. **Connect with Master Link:** Bring the two open ends of the chain together. Insert the pins of the master link through the outer plates and rollers of both chain ends.
5. **Secure the Master Link:** Slide the outer plate of the master link onto the pins. Secure it with the retaining clip, ensuring the closed end of the clip faces the direction of chain travel. Use pliers or a master link tool for proper seating.
6. **Tension Adjustment:** Adjust the chain tension according to your vehicle's manufacturer specifications. Proper tension is crucial for performance and longevity.
7. **Final Check:** Rotate the wheel manually to ensure the chain moves freely and smoothly without binding. Double-check all connections.



Image 5.1: Close-up of the chain showing the connection point, similar to how the master link would join the ends.



Image 5.2: The master link components, including the pins, outer plate, and retaining clip, ready for assembly.

6. Operating Considerations

Once installed, the AlveyTech 428 chain is designed for reliable operation. Adhere to the following for optimal performance:

- Ensure proper chain tension is maintained as per your vehicle's manual.
- Avoid excessive loads or sudden, harsh acceleration that can strain the chain.
- Regularly inspect the chain for any signs of wear, damage, or misalignment.

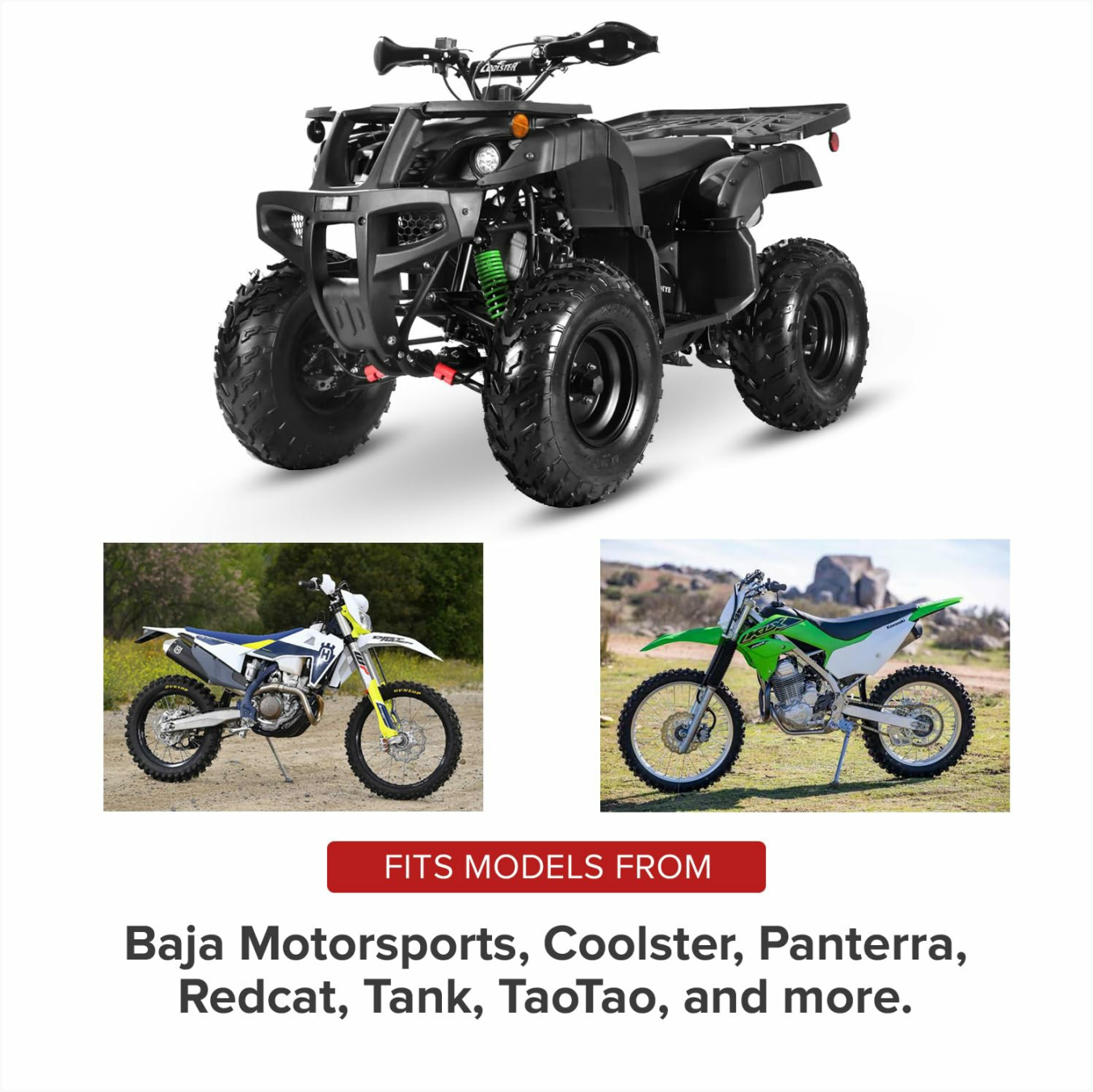


Image 6.1: An ATV with a chain installed, demonstrating the context for smooth operation.

7. Maintenance

Regular maintenance extends the life of your chain and ensures safe operation.

7.1. Cleaning

Clean the chain periodically, especially after riding in dirty or wet conditions. Use a chain cleaner and brush to remove dirt, grime, and old lubricant. Rinse thoroughly and allow to dry.

7.2. Lubrication

After cleaning, apply a high-quality chain lubricant evenly to all rollers and links. This reduces friction and prevents rust. Allow the lubricant to penetrate before riding.

7.3. Inspection

Regularly inspect the chain for:

- **Wear:** Look for stretched links, tight spots, or excessive play.
- **Damage:** Check for bent plates, cracked rollers, or damaged pins.
- **Rust/Corrosion:** Address any signs of rust immediately.
- **Master Link Integrity:** Ensure the master link clip is securely in place and not bent or damaged.



Image 7.1: A close-up view of chain links, useful for identifying wear or damage during inspection.

8. Troubleshooting

This section addresses common issues you might encounter with your chain.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Chain Noise (Squeaking/Grinding)	Lack of lubrication, dirt/debris, worn sprockets.	Clean and lubricate chain. Inspect sprockets for wear and replace if necessary.
Chain Skipping/Slipping	Incorrect chain tension, worn sprockets, stretched chain.	Adjust chain tension. Inspect and replace worn sprockets or chain.
Chain Breaking	Excessive wear, improper installation of master link, extreme stress.	Replace the chain. Ensure master link is correctly installed. Avoid overloading.
Rust on Chain	Exposure to moisture without proper lubrication.	Clean off rust (if minor) and lubricate immediately. For severe rust, replace chain. Store vehicle in dry conditions.

9. Warranty and Support

For information regarding warranty coverage or technical support for your AlveyTech product, please refer to the seller's return policy or contact AlveyTech directly through their official channels.
The seller offers a 30-day refund/replacement return policy. For further assistance, you may visit theAlveyTech Store on Amazon.

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Product Model: 428 Open Loop Chain

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