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› HEZNtXZ CVK 36 AE 500 Carburetor Instruction Manual for Arctic Cat 2004 ATV (0470-471)

HEZNtXZ CVK 36 AE 500

HEZNtXZ CVK 36 AE 500 Carburetor Instruction Manual

Model: CVK 36 AE 500 | Part Number: 0470-471

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your HEZNtXZ CVK 36 AE 500 Carburetor. This carburetor is designed as a replacement part compatible with specific 2004 Arctic Cat ATV models, including those with the 0470-471 engine code. Please read this manual thoroughly before proceeding with any procedures to ensure proper function and longevity of the product.

PRODUCT OVERVIEW

The HEZNtXZ CVK 36 AE 500 Carburetor is engineered to provide optimal fuel delivery and air mixture for your ATV engine. It is a direct replacement for part number 0470-471 and is compatible with the following 2004 Arctic Cat ATV 500 models:

- ATV 500 AUTO TRANS 4X4 FIS MRP
- ATV 500 AUTO TRANS 4X4 TBX
- ATV 500 AUTO TRANS 4X4 TRV
- ATV 500 MANUAL TRANS 4X4 FIS
- ATV 500 MANUAL TRANS 4X4 FIS MRP

This carburetor is designed to enhance fuel efficiency and engine responsiveness, ensuring reliable performance under various off-road conditions.



Figure 1: HEZnXZ CVK 36 AE 500 Carburetor. This image displays the main body of the carburetor, including the throttle plate, various fuel lines, and electrical connections. The unit is silver-toned with black and clear pink tubing.

SETUP AND INSTALLATION

Proper installation is crucial for the carburetor's performance. While designed for straightforward installation, it is recommended to consult a service manual for your specific ATV model for detailed instructions and safety precautions. Ensure the engine is cool before beginning installation.

1. **Preparation:** Disconnect the ATV's battery. Drain the fuel tank and carburetor float bowl.
2. **Removal of Old Carburetor:** Carefully disconnect all fuel lines, vacuum lines, and electrical connectors from the old carburetor. Loosen the clamps securing the carburetor to the intake manifold and airbox. Remove the old carburetor.
3. **Inspection:** Inspect the intake manifold boots and airbox boot for cracks or damage. Replace if necessary to prevent air leaks.
4. **Installation of New Carburetor:** Install the new HEZnXZ CVK 36 AE 500 Carburetor, ensuring it seats properly in the intake and airbox boots. Tighten clamps securely.
5. **Connections:** Reconnect all fuel lines, vacuum lines, and electrical connectors to their correct positions. Ensure all connections are tight and secure to prevent leaks.

6. **Fuel and Battery:** Refill the fuel tank. Reconnect the battery.
7. **Initial Start-up:** Start the ATV and allow it to warm up. Check for any fuel leaks or unusual engine behavior.
8. **Adjustment (if necessary):** Minor idle speed or air/fuel mixture adjustments may be required for optimal performance. Refer to your ATV's service manual for specific adjustment procedures.

Always ensure proper ventilation when working with fuel and wear appropriate safety gear.

OPERATION

Once installed and properly adjusted, the carburetor will regulate the air-fuel mixture delivered to the engine. The primary function is automatic, but understanding basic operation can aid in troubleshooting.

- **Starting:** Use the choke or primer bulb (if equipped on your ATV) as per your ATV's manufacturer recommendations for cold starts.
- **Throttle Response:** The carburetor is designed to provide smooth and responsive throttle control.
- **Fuel Efficiency:** Proper carburetor function contributes to the ATV's overall fuel efficiency.

If you experience rough idling, poor acceleration, or excessive fuel consumption, refer to the Troubleshooting section.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your carburetor. Simple cleaning and inspection can prevent common issues.

- **Fuel Quality:** Always use clean, fresh fuel. Stale or contaminated fuel is a common cause of carburetor problems. Consider using a fuel stabilizer if the ATV will be stored for extended periods.
- **Fuel Filter:** Regularly check and replace the fuel filter according to your ATV's service schedule. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Air Filter:** Ensure the air filter is clean and properly oiled (if applicable). A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor performance.
- **Carburetor Cleaning:** Periodically, or if performance issues arise, the carburetor may need cleaning. This involves disassembling the float bowl, jets, and passages, and cleaning them with a carburetor cleaner. Exercise caution and refer to a detailed service manual for your ATV.
- **Idle Adjustment:** Check and adjust the idle speed as needed, referring to your ATV's specifications.

TROUBLESHOOTING

If you encounter issues with your ATV's engine performance, consider the following common carburetor-related problems and solutions:

Symptom	Possible Cause	Solution
Engine will not start or starts with difficulty	Clogged fuel jet, stale fuel, improper choke use, fuel supply issue	Clean carburetor jets, use fresh fuel, check fuel filter, verify fuel flow
Rough idle or stalling	Incorrect idle mixture/speed, vacuum leak, dirty pilot jet	Adjust idle screw, check intake boots for leaks, clean pilot jet
Poor acceleration or loss of power	Clogged main jet, dirty air filter, improper float level	Clean main jet, clean/replace air filter, adjust float level

Symptom	Possible Cause	Solution
Excessive fuel consumption or black smoke	Rich fuel mixture, stuck choke, dirty air filter	Adjust air/fuel mixture, check choke operation, clean/replace air filter
Fuel leaks	Loose fuel lines, damaged float bowl gasket, stuck float needle	Tighten connections, replace gasket, clean/inspect float needle and seat

If these steps do not resolve the issue, it is recommended to seek assistance from a qualified ATV mechanic.

SPECIFICATIONS

Feature	Detail
Brand	HEZNtXZ
Model	CVK 36 AE 500
Compatible Part Number	0470-471
Compatible ATV Models	2004 Arctic Cat ATV 500 (Auto Trans 4x4 FIS MRP, Auto Trans 4x4 TBX, Auto Trans 4x4 TRV, Manual Trans 4x4 FIS, Manual Trans 4x4 FIS MRP)
Item Weight	14.1 ounces
Package Dimensions	1.18 x 0.79 x 0.39 inches
Manufacturer Part Number	HEZNtXZ 112
ASIN	B0DLL8YC75

WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact the seller or manufacturer directly. Keep your purchase receipt and product details readily available when seeking support.

Manufacturer: HEZNtXZ

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This manual is for informational purposes only. Always refer to your ATV's official service manual for specific procedures and safety warnings.