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> DKIIGAME Carburetor for MTD Cub Cadet 4X90HU 4X90HUA 547CC Engine Instruction Manual

## DKIIGAME HUAYI 4X90

# DKIIGAME Carburetor Instruction Manual

FOR MTD CUB CADET 4X90HU 4X90HUA 547CC ENGINE

## 1. PRODUCT OVERVIEW

This carburetor kit is designed as a high-quality aftermarket replacement for MTD Cub Cadet 4X90HU and 4X90HUA 547CC engines. It is compatible with original equipment manufacturer's specifications and replaces parts # 993-00170 and 993-00170A. The kit includes essential components for a complete installation, aiming to restore optimal engine performance.

## 2. COMPATIBILITY

This carburetor is specifically designed for the following engine models:

- MTD Cub Cadet 4X90HU 547CC Engine
- MTD Cub Cadet 4X90HUA 547CC Engine
- Compatible with MTD Cub Cadet XT1-LT42

## 3. PACKAGE CONTENTS

The complete kit includes the following items:

- 1 x Carburetor assembly
- 3 x Gaskets (various shapes for proper sealing)
- 1 x Spark Plug
- 1 x Fuel Filter
- 1 x Fuel Line
- 2 x Hose Clamps
- 1 x Fuel Shut-off Valve
- 1 x Air Filter (if included in specific kit variant)



Image 3.1: Main carburetor assembly with included gaskets.



Image 3.2: Carburetor and gaskets, illustrating the components included in the kit.

Video 3.1: Overview of the HUAYI Carburetor kit components, including the carburetor, gaskets, and other accessories.

## 4. INSTALLATION INSTRUCTIONS

**Safety First:** Before beginning any work on your engine, ensure the engine is cool, the spark plug wire is disconnected, and the fuel supply is turned off to prevent accidental startup or fuel leaks.

1. **Prepare the Engine:** Locate the existing carburetor on your MTD Cub Cadet engine. Ensure the area around the carburetor is clean to prevent debris from entering the engine during removal and installation.
2. **Disconnect Components:** Carefully disconnect the fuel line, throttle linkage, choke linkage, and any electrical connections (such as the fuel solenoid wire) from the old carburetor. Note their positions for reassembly.
3. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Pay attention to the gaskets between the carburetor and the engine/air filter housing. These will be replaced.

4. **Install New Gaskets:** Place the new gaskets in their correct positions. Ensure they are properly aligned to create a tight seal. Refer to the original setup or an engine diagram if unsure.
5. **Mount New Carburetor:** Position the new DKIIIGAME carburetor onto the engine, aligning it with the mounting bolts and gaskets. Secure it with the original bolts, tightening them evenly to prevent warping.
6. **Reconnect Components:** Reattach the throttle linkage, choke linkage, fuel line, and electrical connections to the new carburetor. Ensure all connections are secure and move freely.
7. **Install New Fuel Filter and Line:** If replacing, install the new fuel filter in the fuel line, ensuring the arrow on the filter points towards the carburetor. Secure the fuel line with the provided hose clamps.
8. **Install New Spark Plug:** Remove the old spark plug and install the new one, ensuring it is properly gapped according to your engine's specifications (if applicable) and tightened to the manufacturer's recommended torque.
9. **Final Checks:** Double-check all connections for tightness and proper routing. Ensure no tools or loose parts are left in the engine compartment. Reconnect the spark plug wire.
10. **Test Engine:** Turn on the fuel supply and start the engine. Allow it to warm up and check for any fuel leaks or abnormal operation. Adjust idle speed or mixture if necessary (consult your engine's service manual for specific adjustment procedures).



Image 4.1: Side view of the carburetor, showing fuel inlet and solenoid connections.



Image 4.2: Top view of the carburetor, highlighting throttle and choke linkages.

Video 4.1: A general video demonstrating the replacement process for a carburetor similar to this model.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your carburetor and engine.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel can clog the carburetor and lead to poor engine performance. Consider using a fuel stabilizer if the equipment will be stored for extended periods.
- **Fuel Filter Replacement:** Replace the fuel filter annually or more frequently if operating in dusty conditions. A clogged fuel filter restricts fuel flow to the carburetor.
- **Air Filter Cleaning/Replacement:** Regularly inspect and clean or replace the air filter. A dirty air filter can restrict airflow, causing the engine to run rich and affect carburetor performance.
- **Spark Plug Inspection:** Inspect the spark plug for wear or fouling. Replace it if necessary to ensure efficient ignition.
- **Carburetor Cleaning:** If the engine experiences rough idling, stalling, or difficulty starting, the carburetor may need cleaning. This typically involves disassembling the carburetor and cleaning jets and passages with carburetor cleaner. Professional service is recommended if you are unfamiliar with this procedure.

## 6. TROUBLESHOOTING COMMON ISSUES

If you encounter problems after installation, refer to the following common issues and potential solutions:

Symptom	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, faulty spark plug, incorrect choke setting.	Check fuel level, replace fuel filter, inspect/replace spark plug, ensure choke is set correctly for starting.
Engine runs rough or stalls	Clogged carburetor jets, dirty air filter, old or contaminated fuel.	Clean carburetor, replace air filter, drain old fuel and refill with fresh fuel.
Engine lacks power	Dirty air filter, restricted fuel flow, incorrect engine adjustments.	Replace air filter, check fuel lines and filter for blockages, consult engine manual for adjustment procedures.
Fuel leaks	Improperly seated gaskets, loose fuel line connections, damaged fuel line.	Ensure gaskets are correctly installed and bolts are tightened evenly. Check fuel line connections and replace damaged lines.

## 7. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	DKIIGAME
Manufacturer	HUAYI
Model Number	HUAYI 4X90
Replaces OEM Part Numbers	993-00170, 993-00170A
Compatible Engine Size	547CC
Product Dimensions	Approximately 4 x 3 x 3 inches
Item Weight	Approximately 15.8 ounces

## 8. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the product packaging or contact DKIIGAME customer support. If you have any questions about the product, require assistance with installation, or are not satisfied with the product received, please contact us. We are committed to providing the best service within 24 hours. For support, please visit the [DKIIGAME Store on Amazon](#) or use the contact information provided with your purchase.