

T381 (Compatible with Toro 74629, 74616, 74621, 74388, 74710 TimeCutter Series)

HUAYI T381 Carburetor Instruction Manual

For Toro TimeCutter SS 3216 / SS 4216 Riding Mowers

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your new HUAYI T381 Carburetor. This carburetor is designed as a replacement part for specific Toro TimeCutter riding mower models, ensuring proper fuel-air mixture for optimal engine performance. Please read this manual thoroughly before attempting any installation or maintenance procedures.

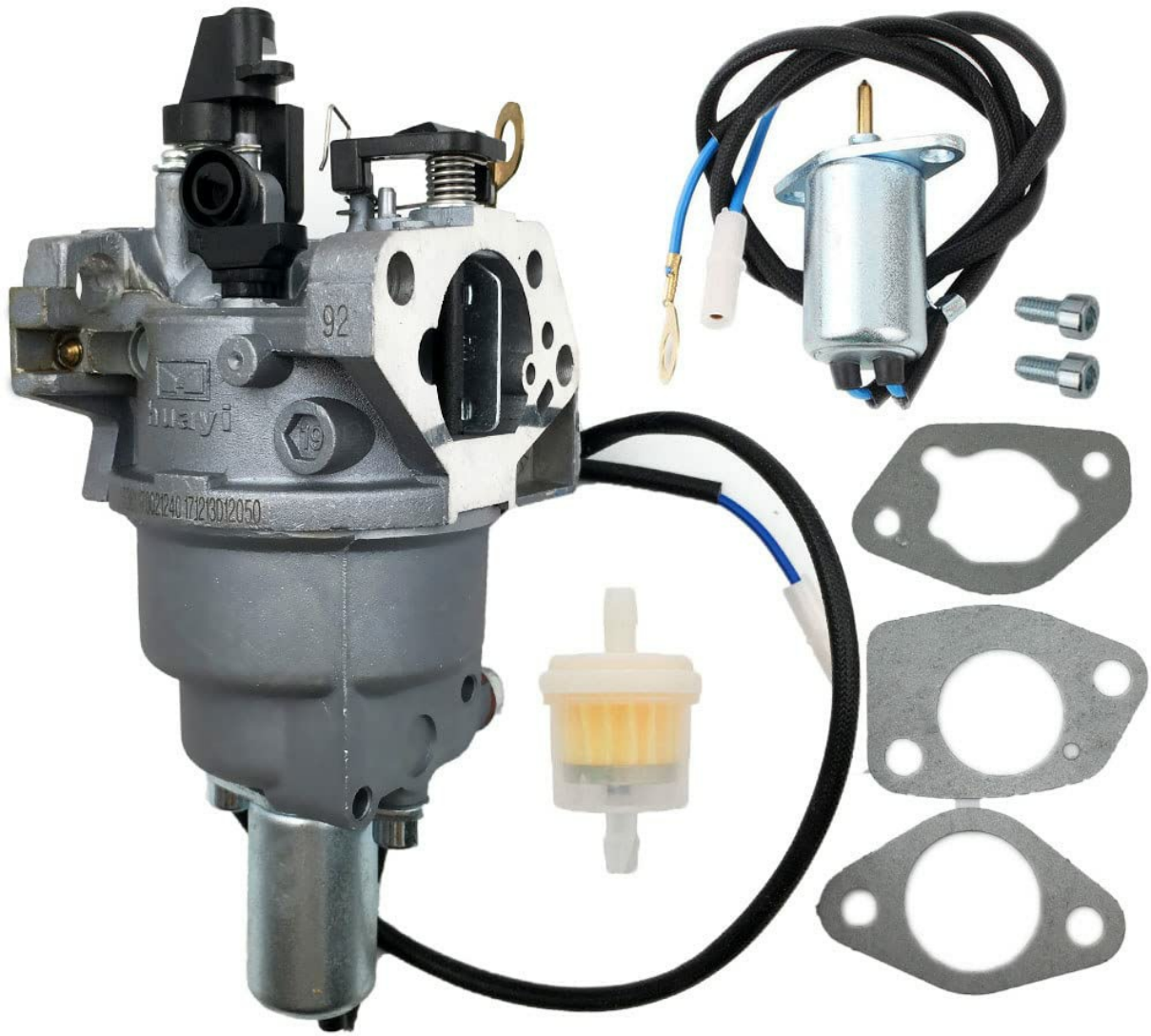


Image 1.1: The HUAYI T381 Carburetor and its accompanying parts.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package. If any parts are missing or damaged, contact your supplier immediately.

- 1x HUAYI T381 Carburetor
- 1x Solenoid
- 1x Fuel Filter
- 2x Screws
- 3x Gaskets



Image 2.1: Contents of the HUAYI T381 Carburetor package, including the carburetor, solenoid, fuel filter, screws, and gaskets.

3. COMPATIBILITY AND FITMENT

This HUAYI T381 Carburetor is compatible with the following Toro TimeCutter riding mower models. Please ensure your model number matches one of the listed models for proper fitment.

- Toro 74616 (313000001 - 313999999) TimeCutter SS 4216 Riding Mower
- Toro 74616 (314000001 - 314999999) TimeCutter SS 4216 Riding Mower
- Toro 74629 (314000001 - 314999999) TimeCutter SS 3216 Riding Mower
- Toro 74621 (312000001-312999999) TimeCutter SS 3200 Riding Mower
- Toro 74621 (314000001-314999999) TimeCutter SS 3200 Riding Mower
- Toro 74388 (314000001-314999999) Timecutter Zs 3200s Riding Mower, 2014
- Toro 74710 (315000001-315000874) Timecutter Ss 3225 Riding Mower, 2015
- Toro 74621 (313000001-313999999) TimeCutter SS 3200 Riding Mower
- Toro 74388 (313000001-313999999) Timecutter Zs 3200s Riding Mower, 2013

Interchange Part Numbers: This carburetor replaces Exmark Toro NO# 136-7889 / 1367889, 127-9027 / 1279027, 120-4435 / 1204435, 120-4377 / 1204377.



Image 3.1: Key dimensions of the carburetor for compatibility verification.

4. INSTALLATION INSTRUCTIONS

Safety First: Before beginning any installation, ensure the engine is cool, the spark plug wire is disconnected, and the fuel line is clamped or drained to prevent fuel leaks. Wear appropriate personal protective equipment.

1. **Preparation:** Locate the existing carburetor on your riding mower. Take photos of the current setup, especially hose and linkage connections, for reference during reassembly.
2. **Remove Air Filter Assembly:** Carefully remove the air filter housing and any associated components to gain access to the carburetor.

3. **Disconnect Fuel Line:** Disconnect the fuel line from the old carburetor. Be prepared for some fuel spillage and have rags ready.
4. **Disconnect Linkages and Wires:** Detach any throttle linkages, choke linkages, and electrical wires (such as the solenoid wire) connected to the old carburetor. Note their positions.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Remove and discard the old gaskets.
6. **Install New Carburetor:** Place new gaskets on the engine manifold and then mount the new HUAYI T381 Carburetor. Secure it with the provided screws.
7. **Connect Linkages and Wires:** Reconnect all throttle and choke linkages, and the solenoid wire, referring to your earlier photos if necessary.
8. **Connect Fuel Line and Filter:** Install the new fuel filter in the fuel line if replacing, then connect the fuel line to the new carburetor. Ensure all connections are secure to prevent leaks.
9. **Reassemble Air Filter:** Reinstall the air filter housing and any other components removed during preparation.
10. **Final Checks:** Double-check all connections, ensuring they are tight and correctly routed. Reconnect the spark plug wire.

Note: If you are unsure about any step, it is recommended to seek assistance from a qualified service technician.



Image 4.1: Top view of the carburetor, highlighting the throttle and choke mechanism connections.

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Video 4.1: A detailed visual overview of the HUAYI T381 Carburetor and its components, demonstrating various angles and features relevant for installation and identification.

5. OPERATION

The carburetor's primary function is to mix air and fuel in the correct ratio for combustion in the engine. Once installed, the carburetor should operate automatically, regulating the fuel flow based on engine demand. No manual adjustments are typically required for this OEM replacement carburetor.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your carburetor.

- **Fuel Filter:** Inspect and replace the fuel filter periodically (e.g., annually or as recommended by your mower's manufacturer) to prevent contaminants from reaching the carburetor.
- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel can clog carburetor passages. Consider using a fuel stabilizer if the mower will be stored for extended periods.

- **Air Filter:** Ensure the air filter is clean and free of debris. A clogged air filter can cause the engine to run rich and affect carburetor performance.
- **External Cleaning:** Keep the exterior of the carburetor clean from dirt and debris.

7. TROUBLESHOOTING

If you experience issues after installing the new carburetor, consider the following common troubleshooting steps:

- **Engine Not Starting:**
 - Check fuel supply: Ensure there is fresh fuel in the tank and the fuel line is not kinked.
 - Verify spark: Check the spark plug for proper function.
 - Solenoid connection: Ensure the carburetor solenoid is properly connected and functioning.
- **Engine Runs Rough/Stalls:**
 - Air leaks: Check for proper sealing of the carburetor to the manifold and ensure gaskets are correctly installed.
 - Fuel filter: A partially clogged fuel filter can restrict fuel flow.
 - Air filter: A dirty air filter can cause rough running.
- **Fuel Leaks:**
 - Check all fuel line connections for tightness.
 - Ensure gaskets are properly seated and not damaged.

If problems persist, consult a professional mechanic.

8. SPECIFICATIONS

Feature	Specification
Brand	Generic (HUAYI)
Model	T381
Flange Type	Bolt On
Recommended Use	Lawn Mower
UPC	747607658202

9. IMPORTANT SAFETY INFORMATION

Always observe safety precautions when working with fuel systems and internal combustion engines.

- Work in a well-ventilated area.
- Keep open flames, sparks, and other ignition sources away from fuel.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Disconnect the spark plug wire before performing any maintenance or installation.
- Dispose of old fuel and parts responsibly according to local regulations.

10. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided in this manual. For warranty claims, technical support, or further assistance, please contact the seller or manufacturer directly through your purchase platform. Keep your purchase receipt as proof of purchase.