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> [ECHO Carburetor WTA-35 for PB-580T PB-580H \(Model A021004331\) Instruction Manual](#)

## ECHO A021004331

# ECHO Carburetor WTA-35 for PB-580T PB-580H (Model A021004331)

Instruction Manual

### 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the ECHO Carburetor, Model A021004331. This carburetor is designed as a direct replacement for specific ECHO and Shindaiwa blower models, ensuring optimal performance and fuel delivery.

### 2. COMPATIBILITY

This carburetor (OEM Part Number A021004331, replacing A021004330) is compatible with the following models:

- ECHO PB-580H Backpack Blower
- ECHO PB-580T Backpack Blower
- Shindaiwa EB600RT (Please refer to your original equipment owner's manual to verify compatibility for Shindaiwa models.)

### 3. WHAT'S INCLUDED

The package typically includes the following components:

- 1x ECHO Carburetor (Model A021004331)
- 2x Primer Bulbs
- 2x Gaskets
- 1x Spark Plug
- 1x Fuel Filter
- 1x Air Filter
- 1x Fuel Line Kit



Image 1: Side view of the ECHO Carburetor WTA-35, showing the choke lever and idle adjustment screw.



*Image 2: Intake side of the carburetor, featuring the primer bulb and main intake opening.*

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*Video 1: An overview of the WTA-35 Carburetor for Echo PB-580 and PB-580H backpack blowers, showcasing its various components and angles.*

## 4. INSTALLATION INSTRUCTIONS

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### 4.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the engine is cool and disconnected from the spark plug wire before beginning any work.
- Work in a well-ventilated area.
- Keep a fire extinguisher nearby when working with fuel.

### 4.2 Preparation

1. Drain all fuel from the fuel tank into an approved container.
2. Remove the air filter cover and air filter.
3. Locate the existing carburetor.

### 4.3 Removing the Old Carburetor

1. Carefully disconnect the fuel lines from the carburetor. Note their positions for reinstallation.
2. Disconnect the throttle linkage and choke rod from the carburetor.
3. Unscrew the mounting bolts or nuts that secure the carburetor to the engine.
4. Remove the old carburetor and any old gaskets.

### 4.4 Installing the New Carburetor

1. Ensure the mounting surface on the engine is clean and free of debris.
2. Place the new gaskets (included) onto the mounting studs, then position the new carburetor.
3. Secure the carburetor with the mounting bolts or nuts, tightening them evenly. Do not overtighten.
4. Reconnect the throttle linkage and choke rod.
5. Reconnect the fuel lines to their correct ports on the new carburetor. Ensure a snug fit to prevent leaks.
6. Install the new fuel filter into the fuel tank if replacing.
7. Install the new air filter and air filter cover.
8. Reconnect the spark plug wire.



*Image 3: View of the carburetor highlighting the fuel line connection points. Proper connection is crucial for fuel delivery.*

## 5. INITIAL START-UP AND ADJUSTMENT

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After installation, perform the following steps for initial start-up and basic adjustments:

1. Fill the fuel tank with the correct fuel mixture (refer to your blower's owner's manual).
2. Prime the carburetor by pressing the primer bulb until fuel is visible and flows freely.
3. Start the engine according to your blower's operating instructions.
4. Allow the engine to warm up for a few minutes.

5. **Idle Speed Adjustment:** If the engine idles too fast or too slow, locate the idle speed screw (often marked "LA" or "T") and turn it clockwise to increase idle speed or counter-clockwise to decrease it. Adjust until the engine idles smoothly without stalling.
6. **High/Low Speed Adjustment:** This carburetor is typically pre-set from the factory. Further adjustments to high (H) and low (L) speed mixture screws should only be performed by experienced technicians, as improper adjustment can damage the engine. If performance issues persist, consult a professional.

## 6. MAINTENANCE

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

- **Fuel Filter:** Inspect and replace the fuel filter periodically (e.g., annually or every 50 hours of operation) to prevent contaminants from reaching the carburetor.
- **Air Filter:** Clean or replace the air filter regularly to ensure proper air intake and prevent dirt from entering the engine.
- **Spark Plug:** Inspect the spark plug for wear and proper gap. Replace if necessary (e.g., annually).
- **Fuel Quality:** Always use fresh, properly mixed fuel. Stale fuel or incorrect fuel mixtures can cause carburetor issues.
- **Storage:** Before long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel, or use a fuel stabilizer.



Image 4: Bottom view of the carburetor, showing the fuel pump diaphragm cover and manufacturer markings.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, incorrect priming, spark plug issue.	Check fuel level, replace fuel filter, ensure proper priming, inspect/replace spark plug.
Engine starts but stalls	Incorrect idle speed, air leak, fuel delivery issue.	Adjust idle speed screw, check fuel lines for leaks, ensure gaskets are sealed.
Engine runs rough or lacks power	Clogged air filter, improper fuel mixture, spark plug issue.	Clean/replace air filter, inspect spark plug, consider professional carburetor adjustment.
Fuel leaks	Loose fuel lines, damaged gaskets, cracked primer bulb.	Tighten fuel line clamps, replace gaskets, replace primer bulb.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician.

## 8. SPECIFICATIONS

Feature	Detail
Brand	ECHO
Manufacturer Part Number	A021004331
Replaces Part Number	A021004330
Compatible Models	ECHO PB-580H, PB-580T; Shindaiwa EB600RT
Item Weight	4.6 ounces
Product Dimensions	16 x 10 x 1 inches
UPC	766239270415

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your original ECHO equipment or contact ECHO customer service directly. Always use genuine replacement parts to maintain product warranty and performance.