

Stens 520-902

Stens Carburetor Model 520-902 Instruction Manual

Replacement for Tecumseh 640084B Engines

		Introduction	Safety Information	Product	
Overview	Installation	Operation	Maintenance	Troubleshooting	Specifications

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Stens Carburetor Model 520-902. This carburetor is designed as a direct replacement for specific Tecumseh engine models. Please read this manual thoroughly before attempting any installation or operation to ensure safe and effective use. The Stens 520-902 Carburetor replaces Tecumseh part numbers: **632107, 632107A, 640084, 640084A, and 640084B**. It is compatible with Tecumseh engine models: **HSK40, HSK50, HSSK40, HSSK50, HS50, and LH195SA**. This carburetor is not intended for go-kart applications.

2. SAFETY INFORMATION

WARNING: Always prioritize safety when working with fuel systems and internal combustion engines. Failure to follow safety precautions can result in serious injury or property damage.

- Ensure the engine is completely cool and disconnected from its power source (e.g., spark plug wire removed) before beginning any work.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Keep open flames, sparks, and other ignition sources away from fuel and fuel system components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Dispose of old fuel and parts responsibly according to local regulations.
- **Fuel Compatibility:** This carburetor is **NOT compatible** with fuels containing greater than 10% ethanol. Using incompatible fuel can cause damage to the carburetor and engine.

3. PRODUCT OVERVIEW

The Stens 520-902 Carburetor is a precision-engineered component designed to mix air and fuel in the correct proportions for optimal engine performance. It is a direct replacement part, meaning it is designed to fit and function like the original equipment manufacturer (OEM) part.



Image 1: Stens Carburetor Model 520-902. This image displays the complete carburetor unit, highlighting its design and connection points for fuel and air intake.

Key features include:

- Pre-set for optimal performance, typically requiring no adjustments after installation.
- Constructed for durability and reliable fuel delivery.
- Designed to meet or exceed OEM specifications for fit and function.

4. INSTALLATION INSTRUCTIONS

Note: For detailed, engine-specific instructions, always consult your engine's service manual. The following steps are general guidelines.

1. Preparation:

- Ensure the engine is off, cool, and the spark plug wire is disconnected.

- Turn off the fuel supply valve, if present.
- Place a suitable container under the carburetor to catch any spilled fuel.
- Take clear photographs of the existing carburetor from multiple angles, paying close attention to fuel lines, linkages, and mounting hardware. This will aid in reassembly.

2. Remove Old Carburetor:

- Carefully disconnect the fuel line from the carburetor.
- Disconnect any throttle and choke linkages. Note their positions.
- Remove the mounting nuts or bolts securing the carburetor to the engine.
- Gently pull the old carburetor away from the engine, ensuring any gaskets are removed.

3. Install New Carburetor:

- Inspect the mounting surface on the engine for cleanliness.
- Place a new gasket (if supplied or purchased separately) onto the mounting studs or surface. The product description indicates a gasket is NOT included, so ensure you have one if needed.
- Position the new Stens 520-902 Carburetor onto the mounting studs, aligning it with the gasket.
- Secure the carburetor with the mounting nuts or bolts. Tighten them evenly to the manufacturer's specifications (refer to engine manual). Do not overtighten.
- Reconnect the throttle and choke linkages, referring to your earlier photographs. Ensure they move freely.
- Reconnect the fuel line to the carburetor. Secure with a clamp if necessary.

4. Final Checks:

- Ensure all connections are secure and there are no loose parts.
- Wipe up any spilled fuel.
- Reconnect the spark plug wire.
- Turn on the fuel supply valve.

5. OPERATION

After successful installation, the engine should be ready for operation. The Stens 520-902 Carburetor is typically pre-adjusted from the factory and should not require further tuning for standard applications.

- **Starting the Engine:** Follow your engine manufacturer's recommended starting procedure, which usually involves setting the choke and throttle.
- **Engine Performance:** The engine should start smoothly and run consistently. If you experience issues, refer to the Troubleshooting section.

6. MAINTENANCE

Proper maintenance extends the life of your carburetor and engine.

• Fuel Management:

- Always use fresh, clean gasoline.
- **Crucially, avoid fuels with more than 10% ethanol content.** Ethanol can degrade carburetor components over time.
- For seasonal storage, it is recommended to run the engine until the fuel tank and carburetor are empty, or use a high-quality fuel stabilizer. This prevents fuel degradation and gumming within the carburetor.

- **Regular Inspection:** Periodically check fuel lines for cracks or leaks and ensure all connections are secure.
- **Air Filter:** Ensure the engine's air filter is clean and in good condition. A dirty air filter can affect carburetor performance.

7. TROUBLESHOOTING

If you encounter issues after installing your new carburetor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine will not start	No fuel, incorrect choke setting, spark plug issue, old fuel.	Check fuel level and quality. Ensure choke is set correctly. Inspect spark plug. Verify fuel line is not kinked.
Engine runs rough or stalls	Dirty air filter, incorrect fuel, minor fuel restriction.	Clean or replace air filter. Ensure correct fuel type (less than 10% ethanol). Check fuel filter.
Fuel leak from carburetor	Improperly seated gasket, loose connections, damaged float.	Check mounting bolts for proper torque. Inspect fuel line connections. If leak persists, carburetor may need inspection by a professional.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or refer to your engine's comprehensive service manual.

8. SPECIFICATIONS

Feature	Detail
Brand	Stens
Model Number	520-902
Replaces Tecumseh Part Numbers	632107, 632107A, 640084, 640084A, 640084B
Fits Tecumseh Engine Models	HSK40, HSK50, HSSK40, HSSK50, HS50, LH195SA
Item Weight	7.2 ounces
Product Dimensions	4 x 2.5 x 4 inches
Fuel Compatibility	Not compatible with greater than 10% ethanol fuel
Application Restriction	Not for go-kart applications

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support, please refer to the official Stens website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Stens Official Website: www.stens.com

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