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› Stens Carburetor 520-944 for Tecumseh 632795A User Manual

Stens 520-944

Stens Carburetor 520-944 User Manual

Model: 520-944

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Stens Carburetor Model 520-944, designed as a replacement for Tecumseh 632795A. Adhering to these instructions will ensure optimal performance and longevity of the carburetor.

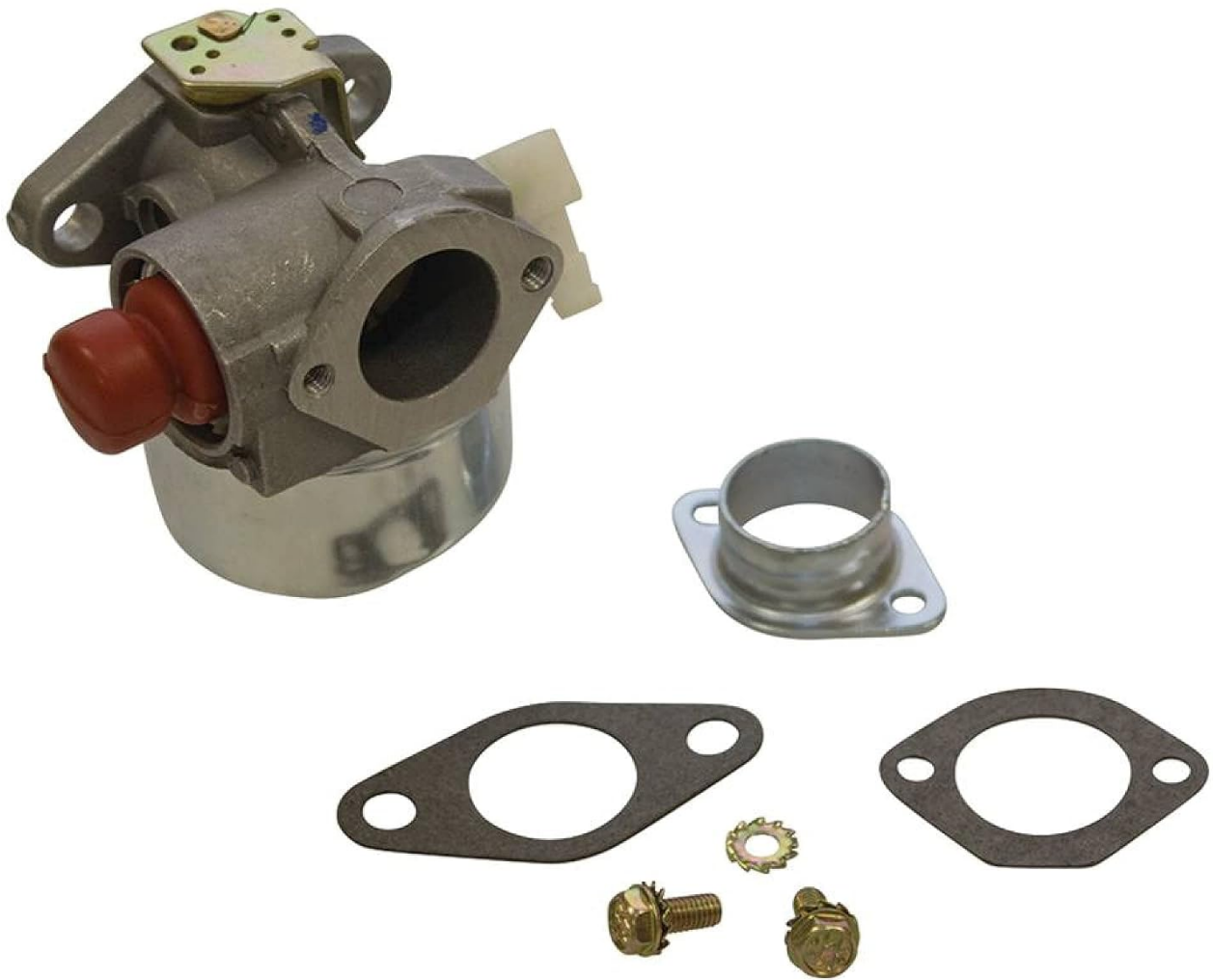


Image: Stens Carburetor 520-944, including the main carburetor unit, two gaskets, a metal spacer, and two mounting bolts.

SETUP AND INSTALLATION

Proper installation is crucial for the carburetor's function. Always ensure the engine is cool and disconnected from its power source before beginning installation.

1. **Safety First:** Disconnect the spark plug wire to prevent accidental engine startup. Ensure the engine is completely cool.
2. **Remove Old Carburetor:** Carefully disconnect fuel lines, throttle linkages, and choke linkages from the old carburetor. Remove mounting bolts and the old carburetor. Note the orientation of all components for reassembly.
3. **Clean Mounting Surface:** Thoroughly clean the engine's mounting surface to ensure a proper seal with the new gaskets. Remove any old gasket material.
4. **Install New Gaskets:** Place the new gaskets provided with the Stens 520-944 carburetor onto the mounting studs. Ensure they are correctly aligned.
5. **Mount New Carburetor:** Position the new Stens 520-944 carburetor onto the studs, ensuring it aligns with the gaskets. Secure it with the provided mounting bolts, tightening them evenly to prevent warping.

6. **Reconnect Linkages and Fuel Line:** Reattach the throttle and choke linkages to their respective points on the new carburetor. Connect the fuel line securely, ensuring no kinks or leaks.
7. **Check Fuel Filter:** It is recommended to inspect and replace the fuel filter if necessary to prevent contaminants from entering the new carburetor.
8. **Final Checks:** Double-check all connections for tightness and proper routing. Reconnect the spark plug wire.

OPERATING INSTRUCTIONS

Once installed, the carburetor is designed to provide optimal fuel-air mixture. Minor adjustments may be required for specific engine conditions.

- **Fuel Supply:** Ensure the fuel tank contains fresh, clean fuel appropriate for your engine type.
- **Choke Operation:** For cold starts, engage the choke fully. Once the engine starts and runs smoothly, gradually disengage the choke.
- **Throttle Control:** Use the throttle lever to control engine speed. The carburetor will automatically adjust fuel flow based on throttle position.
- **Idle Adjustment:** If the engine idles too fast or too slow, locate the idle speed screw (typically a small screw near the throttle linkage) and adjust it incrementally until the desired idle speed is achieved.
- **Mixture Adjustment (if applicable):** Some carburetors may have a mixture screw. Adjust this screw in small increments (e.g., 1/8 turn) to achieve the smoothest running engine. Turning clockwise typically leans the mixture, counter-clockwise enriches it. Refer to your engine's specific manual for precise adjustment procedures.

MAINTENANCE

Regular maintenance extends the life of your carburetor and ensures reliable engine performance.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel is a primary cause of carburetor issues. Consider using a fuel stabilizer if the engine will be stored for extended periods.
- **Fuel Filter:** Inspect and replace the fuel filter annually or more frequently if operating in dusty conditions.
- **Air Filter:** A clogged air filter can cause the engine to run rich and affect carburetor performance. Clean or replace the air filter regularly as per your engine's manual.
- **Carburetor Cleaning:** If performance issues arise, the carburetor may need cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This procedure should only be performed by individuals with mechanical experience.
- **Storage:** Before long-term storage, drain the fuel system or run the engine until it runs out of fuel to prevent gum and varnish buildup in the carburetor.

TROUBLESHOOTING

Common issues and their potential solutions related to carburetor performance.

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, clogged carburetor jet, incorrect choke position.	Check fuel level, replace fuel filter, clean carburetor, adjust choke.

Problem	Possible Cause	Solution
Engine runs rough/stalls	Dirty fuel, clogged air filter, incorrect idle adjustment, vacuum leak.	Drain and replace fuel, clean/replace air filter, adjust idle screw, check for loose connections/gaskets.
Engine lacks power	Clogged fuel filter, restricted exhaust, incorrect mixture setting.	Replace fuel filter, check exhaust system, adjust mixture screw.
Fuel leaks from carburetor	Damaged float, stuck needle valve, loose bowl screws, damaged gasket.	Inspect and replace float/needle valve, tighten screws, replace gasket.

If troubleshooting steps do not resolve the issue, consult a qualified service technician.

SPECIFICATIONS

Attribute	Detail
Brand	Stens
Model Number	520-944
OEM Part Number (Replacement For)	Tecumseh 632795A (also compatible with various other Tecumseh part numbers including 730182, 633014, 632975a, 632795, 632772, 632769, 632750, 632747, 632744, 632733, 632681, 632678, 632670, 632669, 632646, 632645, 632644, 632635, 632611A, 632611, 632610A, 632610, 632575, 632569, 632468, 632467, 632466, 632420, 632391, 632389A, 632389, 632388, 632387A, 632387, 632380, 632369, 632349, 632214, 632099, 632098, 632088, 632087, 632086, 632078A, 632070, 632055, 632053, 632052, 632051, 632050A, 632050, 632046A, 632046, 631902A, 631902, 631843, 631831, 631784A, 631784, 631699, 631612, CR-0236, 50-650, 13149, 007-076)
Vehicle Service Type	Go Kart (and other small engines using compatible Tecumseh carburetors)
Product Dimensions	Approximately 25 x 25 x 15 inches (packaging dimensions)
Item Weight	9.6 ounces
UPC	023899442645

WARRANTY INFORMATION

For specific warranty details regarding the Stens Carburetor 520-944, please refer to the official Stens website or contact Stens customer support directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

SUPPORT AND CONTACT

If you require further assistance or have questions not covered in this manual, please contact Stens customer support:

- **Manufacturer:** Stens
- **Website:** www.stens.com (Please check the official Stens website for the most current contact information and support resources.)
- **Online Store:** [Stens Amazon Store](#)

When contacting support, please have your product model number (520-944) and purchase details readily available.