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› Stens OEM Carburetor 615-242 Instruction Manual

Stens 615-242

Stens OEM Carburetor 615-242 Instruction Manual

Replacement for Dolmar PS-350, PS-351, PS-420, PS-421, and Makita EA4300 Chainsaws

1. PRODUCT OVERVIEW

The Stens OEM Carburetor 615-242 is a high-quality replacement part designed to restore optimal fuel delivery and engine performance in compatible chainsaw models. This carburetor is engineered to meet or exceed OEM specifications, ensuring reliable operation.



Figure 1: Stens OEM Carburetor 615-242, a direct replacement component.

For proper ordering and identification, it is recommended to reference the Walbro or Zama part number stamped on your existing carburetor. This carburetor is not compatible with fuels containing greater than 10% ethanol.

2. SPECIFICATIONS

Feature	Detail
Model Number	615-242
OEM Part Numbers Replaced	Zama: C1Q-DM23, C1Q-DM23B
Fuel Compatibility	Not compatible with greater than 10% ethanol fuel
Product Dimensions	2.3"D x 4.1"W x 1.9"H
Item Weight	4.2 ounces
Manufacturer	Stens

3. COMPATIBILITY

This Stens OEM Carburetor 615-242 is a direct replacement for the following chainsaw models:

- **Dolmar:** PS-350, PS-351, PS-420, PS-421
- **Makita:** EA4300

Always verify the part number on your original carburetor to ensure proper fitment before installation.

4. INSTALLATION AND SETUP

Installation of a carburetor requires mechanical aptitude and specific tools. If you are not confident in your ability to perform this repair, it is highly recommended to seek assistance from a qualified service technician.

4.1 Safety Precautions

- Ensure the chainsaw engine is cool and disconnected from the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Have a fire extinguisher readily available when working with fuel.

4.2 General Installation Steps (Consult Service Manual for Specifics)

1. Drain all fuel from the chainsaw's fuel tank.
2. Carefully remove the air filter cover and air filter.
3. Disconnect the fuel lines, throttle linkage, and choke linkage from the old carburetor. Note their positions for reassembly.
4. Remove the mounting bolts securing the old carburetor to the engine.
5. Remove the old carburetor and inspect the intake manifold for any damage or debris.
6. Install the new Stens carburetor, ensuring all gaskets are properly seated.
7. Reconnect the fuel lines, throttle linkage, and choke linkage in their correct positions.
8. Reinstall the air filter and air filter cover.
9. Refill the fuel tank with fresh, appropriate fuel (less than 10% ethanol).
10. Perform initial engine start-up and adjustment as per the chainsaw's service manual.

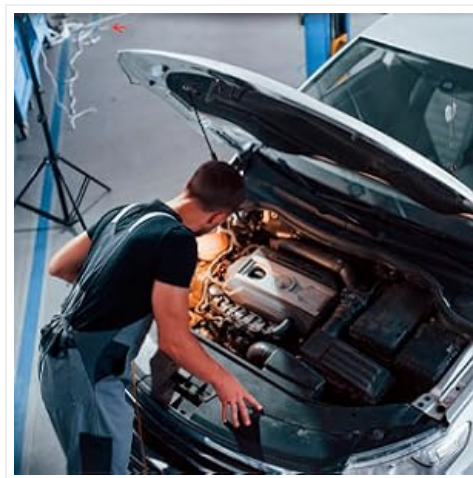


Figure 2: Professional installation is recommended for complex components like carburetors.

5. OPERATING CONSIDERATIONS

While the carburetor itself does not have "operating" controls in the user sense, its proper function is critical for the chainsaw's operation. Ensure you use the correct fuel mixture (if applicable to your chainsaw model) and avoid fuels with high ethanol content (greater than 10%) to prevent damage to the carburetor and fuel system components. After installation, the chainsaw may require carburetor adjustments (idle speed, high/low mixture screws) to achieve optimal performance. Refer to your chainsaw's specific service manual for detailed adjustment procedures.

6. MAINTENANCE

Regular maintenance of your carburetor and fuel system will extend the life of your chainsaw and ensure consistent performance.

- **Fuel Quality:** Always use fresh, clean fuel. Stale fuel or fuel with high ethanol content can cause deposits and corrosion within the carburetor.
- **Fuel Filter:** Regularly inspect and replace the fuel filter in the fuel tank. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Air Filter:** Keep the air filter clean. A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor engine performance.
- **Storage:** Before long-term storage, drain the fuel tank and run the engine until it runs out of fuel, or use a fuel stabilizer to prevent fuel degradation and gumming in the carburetor.
- **Cleaning:** If performance issues arise, the carburetor may need to be cleaned. This typically involves disassembling the carburetor and cleaning its internal passages with carburetor cleaner. This is an advanced maintenance task and should only be performed by experienced individuals.

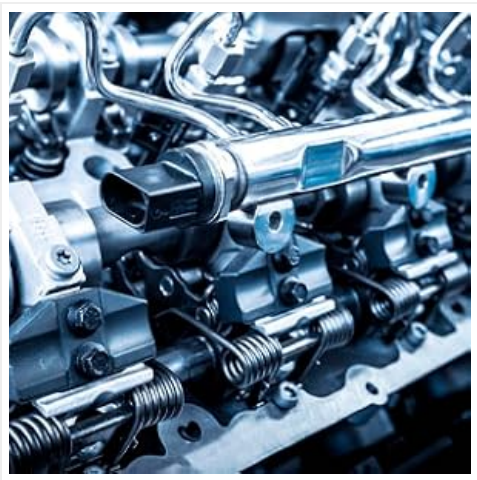


Figure 3: Regular inspection of engine and fuel system components is crucial for maintenance.

7. TROUBLESHOOTING

If your chainsaw experiences issues after carburetor replacement or during normal operation, consider the following common troubleshooting steps related to the carburetor:

Problem	Possible Cause	Solution
Engine won't start	No fuel reaching carburetor; clogged fuel filter; incorrect choke setting; carburetor adjustments needed.	Check fuel lines and filter; ensure choke is set correctly; verify carburetor is primed; adjust carburetor if necessary.

Engine runs rough/stalls	Dirty carburetor jets; improper fuel mixture; air leak in intake; old/stale fuel.	Clean carburetor; adjust fuel mixture screws; check for air leaks; replace fuel with fresh, non-ethanol blend.
Engine lacks power	Restricted fuel flow; dirty air filter; incorrect carburetor settings.	Check fuel filter; clean/replace air filter; adjust carburetor for optimal performance.
Fuel leaks from carburetor	Damaged gasket; loose mounting bolts; faulty needle valve.	Inspect and replace gaskets; tighten mounting bolts; inspect needle valve and float.

For persistent issues, consult your chainsaw's service manual or contact a qualified technician.

8. WARRANTY AND SUPPORT

Stens products are manufactured to high-quality standards. For specific warranty information regarding your Stens OEM Carburetor 615-242, please refer to the documentation included with your purchase or visit the official Stens website. For technical support or inquiries, please contact Stens customer service directly. You can find more information and contact details on the [Stens Store on Amazon](#) or their official website.

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