

This is a guide to replacing the carburetor jet for your WEN 56202i, 56203i, or 56235i Inverter generator. This guide is best used in conjunction with the generator manual, included as a physical copy with your unit and available on the WEN website page for the generator (56202i link here, 56203i link here, 56235i link here), by clicking “Click here to view the product manual”.

If at any point you need assistance, have questions, or want to order parts, call WEN customer service at 1-800-232-1195, M-F, 8-5 Central Time, or email techsupport@wenproducts.com.

**If replacing any parts, use only genuine replacement parts purchased from WEN Products. Use of replacement parts not sold by WEN Products will void the product’s warranty and could lead to decreased performance or injury.**

<b>Table of contents</b>		<b>You will need...</b>	<b>You may want...</b>
Tools needed	1	<ul style="list-style-type: none"><li>• Phillips-head screwdriver</li><li>• Flat-head screwdriver</li><li>• 10mm wrench</li></ul>	<ul style="list-style-type: none"><li>• Needle-nose pliers</li><li>• A magnetic pick-up tool</li></ul>
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ENSURE THAT THE ENGINE IS COOL BEFORE BEGINNING ANY MAINTENANCE OR REPAIR WORK. FOLLOW ALL SAFETY PROCEDURES LISTED IN YOUR OWNER’S MANUAL. USE COMMON SENSE. AVOID INJURY.

**NOTICE:** WEN PRODUCTS AND GREAT LAKES TECHNOLOGIES, LLC ALWAYS RECOMMEND THAT THE HIGH-ALTITUDE KIT FOR YOUR GENERATOR BE INSTALLED BY A QUALIFIED MECHANIC. REFER TO THE OWNER’S MANUAL INCLUDED WITH YOUR GENERATOR FOR MORE INFORMATION. WEN PRODUCTS AND GREAT LAKES TECHNOLOGIES, LLC SHALL NOT BE HELD LIABLE FOR ANY GENERATOR DAMAGE OR DECREASE IN PERFORMANCE, OR INJURY TO ANY PERSON, ARISING OUT OF ANY SITUATION IN WHICH A HIGH-ALTITUDE KIT IS NOT INSTALLED BY QUALIFIED PERSONNEL. CALL 1-800-232-1195 M – F, 8 – 5 CST FOR MORE INFORMATION. FOLLOW ALL APPLICABLE SAFETY PRECAUTIONS.

### **REMOVING THE OLD JET**

1. Shut off the generator and allow it to cool to ambient temperature before proceeding. Turn off the fuel valve to stop the flow of fuel from the gas tank. Refer to the instructions in your manual.
2. Remove the oil access panel and spark plug access panel, as instructed in your manual.
3. Use the Phillips-head screwdriver to remove the 4 screws from the right panel. See Fig. 1 below. Remove the panel.



*Fig. 1: Remove these screws.*

NOTE: you may want to use a flat-head screwdriver to coax the snap-fit tabs out of the generator shell. See Fig. 2 below.



*Fig. 2: Snap-fit tabs.*

4. Prepare an approved gasoline-storage container. Drain the carburetor as instructed in your manual. Use a Phillips-head screwdriver to loosen the drain screw (Fig. 3).



*Fig. 3: Carburetor drain screw.*

5. Pinch the breather hose clamp and slide it up the breather hose. Remove the breather hose from the air duct. See Figs. 4 & 5 below.



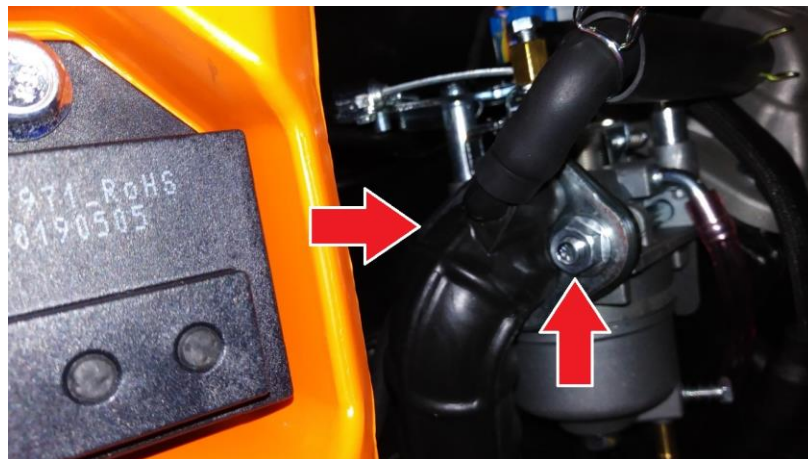
*Fig. 4: Breather hose clamp.*



*Fig. 5: Breather hose removed from air duct.*

6. Remove the air filter cover (see manual). This will give you more room to work.

7. Use the 10mm wrench to loosen the two air duct nuts (Fig. 6 below). This will let you slide the carburetor along the studs and get more room to work. **Be careful to not drop the nuts into the housing. A magnetic pick-up tool may come in handy here.**



*Fig. 6: Air duct nuts.*

8. Remove the air duct from the carburetor studs; bend it out of the way.

NOTE: if desired, you may remove the air duct from the air filter housing entirely (just pull it upwards), but it will be difficult to re-install.

9. Use the 10mm wrench to remove the bolt and washer from the bottom of the carburetor bowl. **Be careful to not drop the bolt and washer into the housing.**

**NOTE:** the directions below differ slightly, depending on your generator's serial number. Your generator's serial number is located on the main specifications label on the right-side panel.

- Model 56202i or 56203i: see steps 10-11.
- Model 56235i, serial numbers beginning with 120148 or lower: see steps 10-11.
- Model 56235i, serial numbers beginning with 120835 or higher: see steps 12-18.

**Model 56202i or 56203i (all units); model 56235i, serial numbers beginning with 120148 or lower**

10. The carburetor bowl will drop down, exposing the jet. See Fig. 7 below.



*Fig. 7: Carburetor jet.*

11. Use a flat-head screwdriver to remove the jet.

NOTE: needle-nose pliers may be helpful here, to hold the jet.

**Model 56235i, serial numbers beginning with 120835 or higher**

12. For 56235i generators with serial numbers beginning with 120835 or higher, the carb jet is located inside the main stem of the carburetor as seen in Figure 8. The best way to access the carb jet is to first remove the carburetor from the carburetor threaded rods.

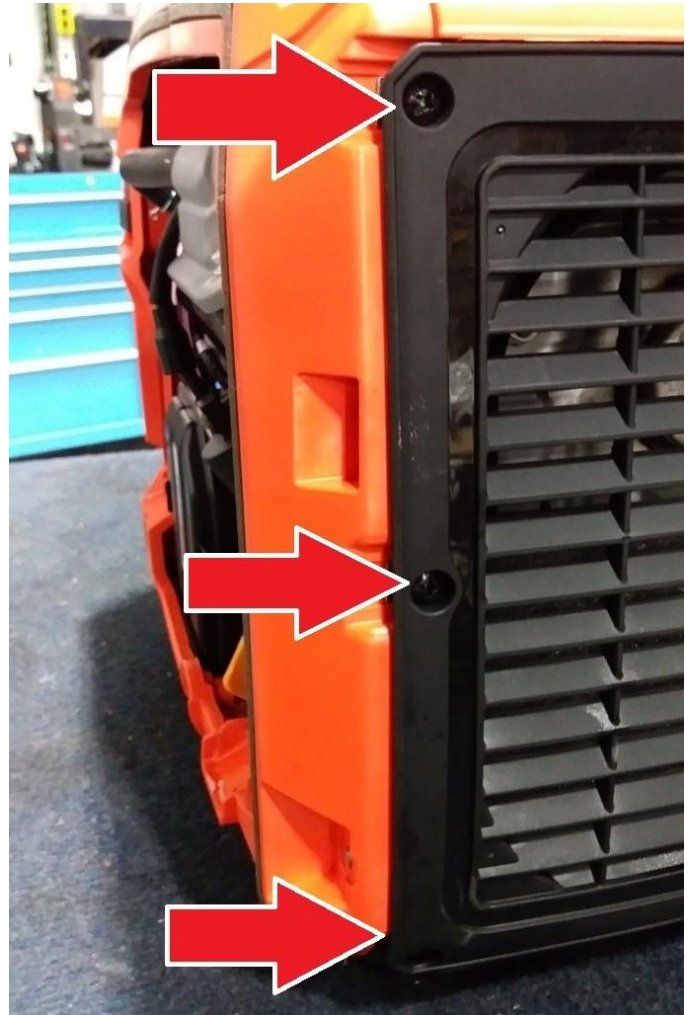


*Fig. 8: Carburetor jet, certain 56235i units.*

13. To remove the carburetor, start by removing the three screws from the right side of the control panel housing, and the three screws from the left side of the muffler cover, as shown in Figs. 9 & 10 below.

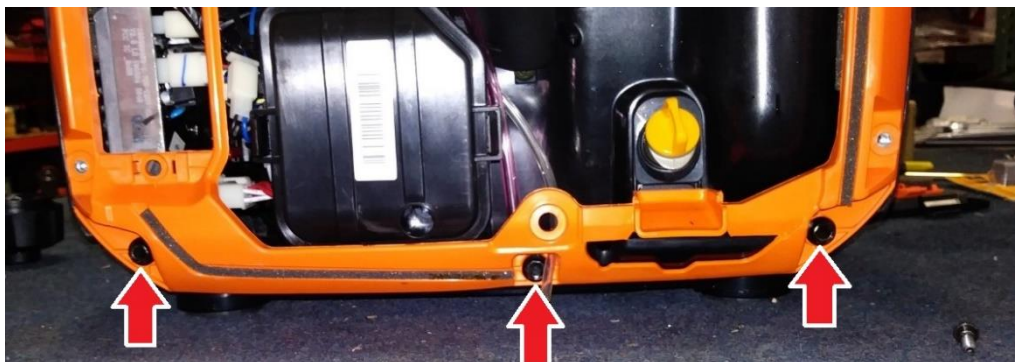


*Fig. 9: Control Panel Screws*



*Fig. 10: Muffler Cover Screws*

14. Use the socket and ratchet to remove the 3 screws at the bottom of the generator's shell. See Fig. 11 below.



*Fig. 11: Generator Shell Screws*

15. Remove the 4 screws from the generator handle seen in Fig. 12 below.



*Fig. 12: Remove the 4 Phillips-head screws.*

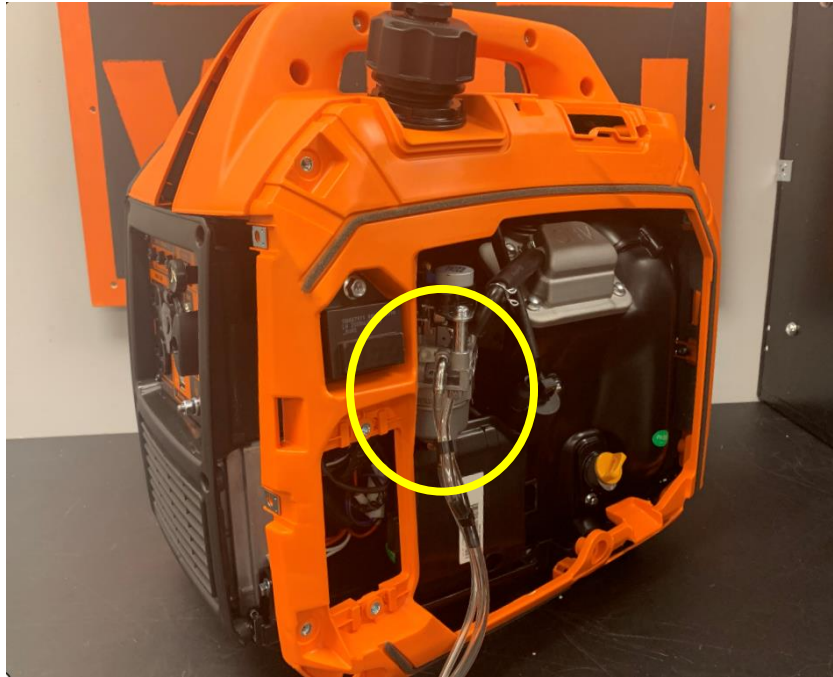
16. Loosen the right shell of the generator. You do not have to remove the whole shell and gas tank to slide the carburetor off of the threaded rods, but do detach the right shell from the front control panel as shown below in Fig. 13. If the shell is stuck on the control panel, gently pull the control panel outwards by the plastic lip edge and then slide the right shell outwards.



*Fig. 13: Loosen the right shell from the generator frame.*

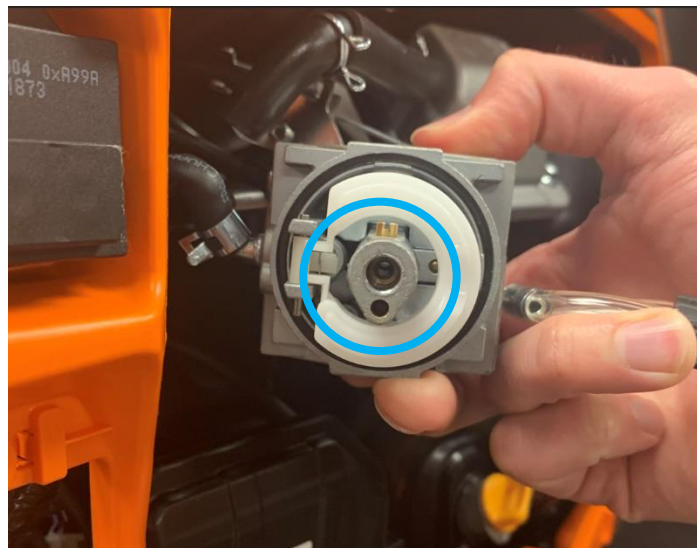
17. With the right shell loosened there will be enough clearance to pull the carburetor off of the threaded rods. Gently but firmly slide the carb off the threaded rods. You may have to pull outwards on the front control panel to wiggle the carburetor free. Once removed, the carb will hang free as circled in yellow in Fig. 14 below.

NOTE: You do not need to fully disconnect the carb. The fuel line and choke wire can remain connected when changing the carb jet.



*Fig. 14: Carburetor removed from the threaded carb rods.*

18. Once the carburetor is free, remove the 10mm wrench to remove the bolt and washer from the bottom of the carburetor bowl. Remove the carb bowl and the jet is located in the stem of the carburetor as circled in blue in Fig. 15. Remove the jet using a flat-head screwdriver.



*Fig. 15: Carburetor jet, certain 56235i units.*

## **INSTALLING THE NEW JET**

19. Install the new jet. Tighten using the flat-head screwdriver.
20. Remove the old carburetor bowl gasket. Install a new gasket (provided with your high-altitude kit).
21. Replace the carburetor bowl. Install a new bolt washer (provided with your high-altitude kit) and re-install the bolt. Tighten with the 10mm wrench.

NOTE: make sure the bowl is facing the same way it was when you removed it; the drain screw should point out and to the right (toward the ignition coil). See Fig. 3.

22. If you loosened the right generator shell and removed the carburetor according to steps 12-18, reverse those steps to re-install the carburetor and right shell.

23. Replace the air duct on the carburetor studs. Re-install the nuts and tighten using the wrench.

NOTE: If you removed the air duct entirely earlier, replace it in the air filter housing. The bottom of the duct has a barbed shape that is inserted into the hole in the top of the air filter housing. A flat-head screwdriver and needle-nose pliers may be helpful in re-installing the duct. Be careful to not tear the duct. The barbed fitting should fully seat into the housing. See Fig. 16 below.



*Fig. 16: Barbed fitting on the bottom of the air duct*

16. Re-install the breather hose and hose clamp.
17. Replace the air filter cover.
18. Make sure the carburetor drain hose passes through the hole in the bottom of the housing. See Figs. 17 & 18 below.





*Fig. 17: Drain hose passes through hole.*



*Fig. 18: Drain hose passes through housing*

19. Replace the cover. Re-install and tighten the screws.

## **QUESTIONS? PROBLEMS?**

Contact WEN Customer Service at 1-800-232-1195, M-F, 8-5 CST, or email [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com)