



This is a guide to replacing the carburetor for your WEN 56202i, 56203i, or 56235i Inverter Generator. This guide is best used in conjunction with the generator owner's 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 your warranty and could lead to decreased performance or injury.

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TOOLS NEEDED

- Phillips-head screwdriver
- 10mm socket and ratchet
- Approved gasoline storage container
- Zip tie
- Scissors or wire cutter
- Needle-nose pliers
- Permanent marker
- *Flat-head screwdriver (optional)*
- *Flashlight (optional)*
- *Magnetic pick-up tool (optional)*

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.

Removing the old carburetor

1. Ensure the engine and muffler are completely cool before beginning.
2. Remove the oil access panel, as well as the spark plug access panel, and disconnect the spark plug boot from the spark plug, as instructed in your manual.
3. Drain the gas tank and carburetor, as instructed in your manual, into an approved gasoline-storage container.
4. Remove the four screws on the generator's side panel, as shown in Fig. 1 below. Remove the panel.
 1. NOTE: the side panel has 2 tabs at the top; a flat-head screwdriver may be needed to help remove them.



Fig. 1: Remove these four screws.

5. Remove 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. 2 & 3 below.



Fig. 2: Remove these screws.

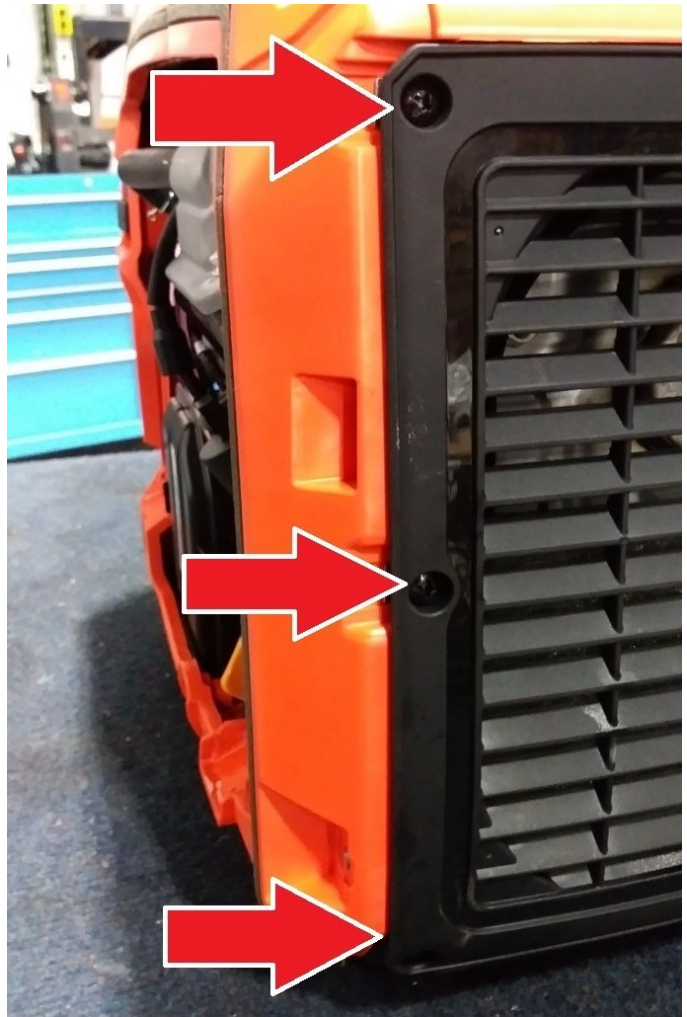


Fig. 3: Remove these screws.

6. Use the socket and ratchet to remove the 3 screws at the bottom of the generator's shell. See Fig. 4 below.

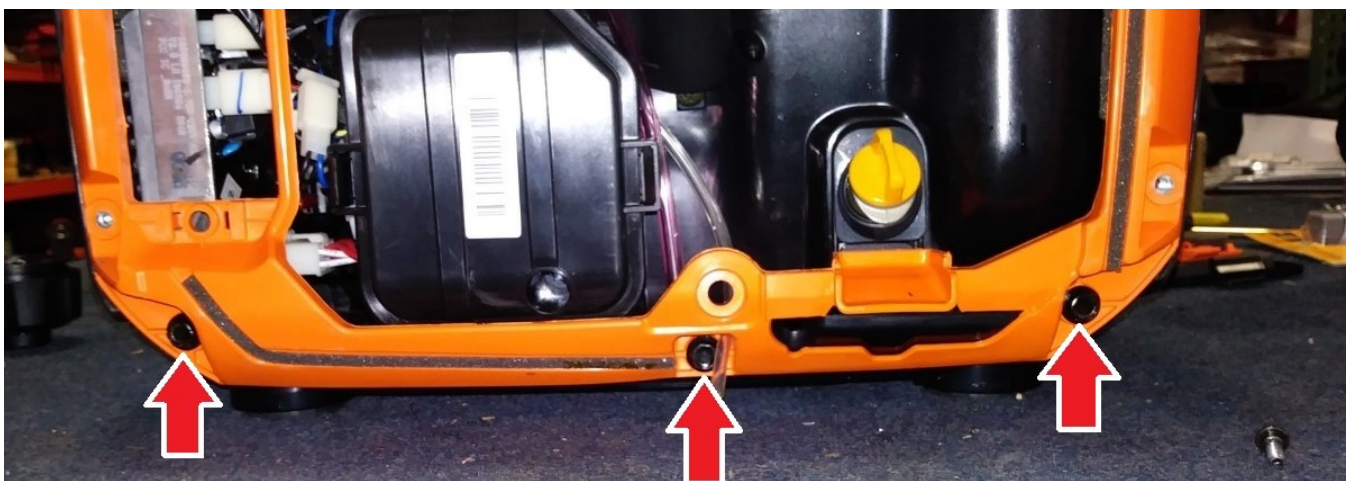


Fig. 4: Remove these 3 screws.

7. Remove the 4 screws from the generator's handle. See Fig. 5 below.



Fig. 5: Remove these 4 Phillips-head screws.

8. Remove the generator's right shell. Maneuver the gas tank up and over the engine assembly.
 1. NOTE: this may be difficult to do. If desired, you may partially disassemble the other half of the generator's shell to make disassembly easier. For instructions, see section "Optional – removing the muffler cover" on p. 5 below.
 2. NOTE: in these pictures, the generator's left cover has been removed; however, this is not necessary if you choose to follow the instructions in section "Optional – removing the muffler cover".
9. Pivot the shell and gas tank toward the control panel. Leave the fuel line connected to the gas tank and the inverter wiring attached to the ignition module. See Fig. 6 below for what this looks like.

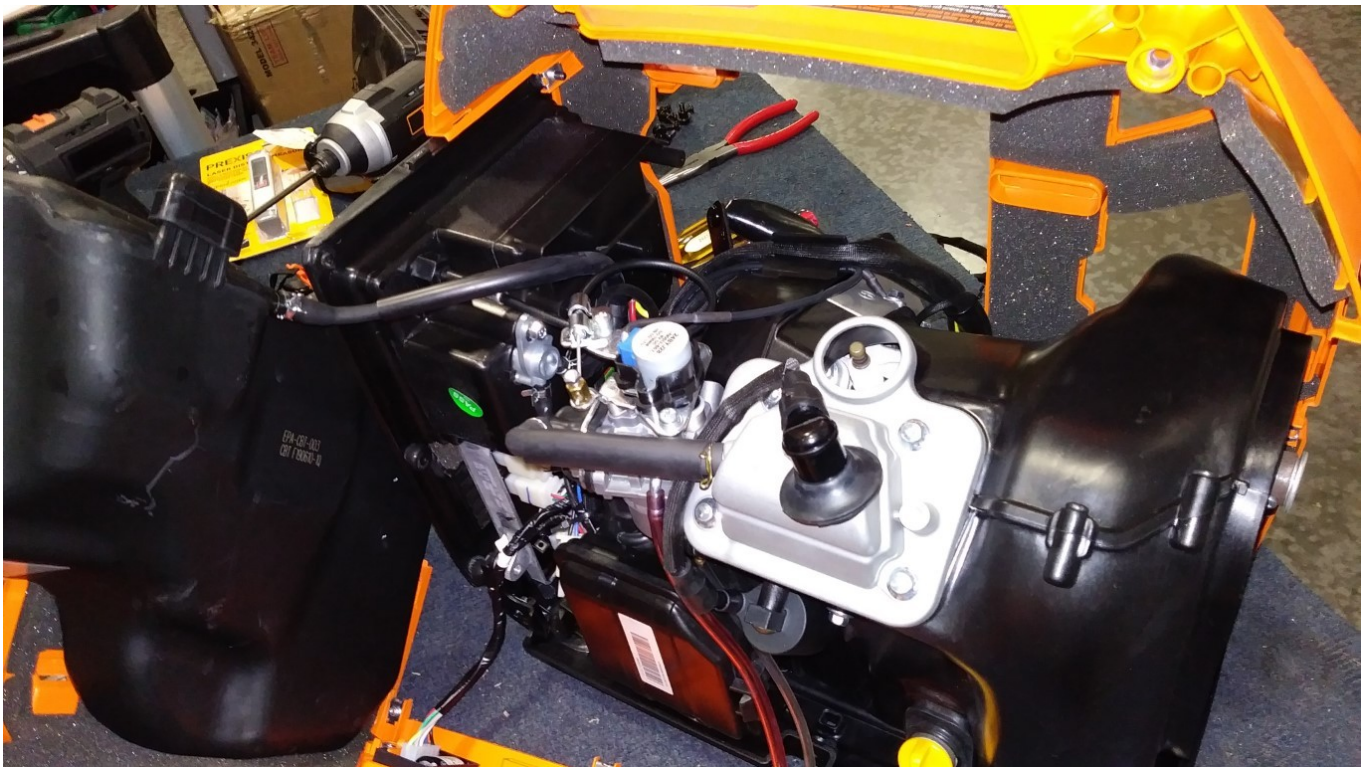


Fig. 6: Shell removed; gas tank pivoted out of the way.

10. Remove the two screws from the stepper motor housing. See Fig. 7 below. Be careful to not drop the screws.



Fig. 7: Remove these two screws.

11. Gently pull the stepper motor out of the carburetor throttle. Set the motor atop the engine.

12. Remove the breather hose from the cylinder head and air duct – move the hose clips off the fittings and remove the hose.



Fig. 8: Breather hose.



Fig. 9: Breather hose removed.

13. Mark the choke cable on either side of the choke post, using the permanent marker. Use a Phillips-head screwdriver to loosen the choke screw. Slide the cable out of the post.



Fig. 10: Mark choke cable on either side of post.



Fig. 11: Loosen choke screw and remove cable.

14. Loosen the choke cable bracket screw (Fig. 12 below) and remove the cable from the bracket. Cut the zip tie (Fig. 13 below) that secures the choke cable to the carburetor bracket.



Fig. 12: Choke cable bracket screw.



Fig. 13: Zip tie.

15. Loosen and remove the two 10mm nuts on the carburetor studs. Don't drop them. See Fig. 14 below.



Fig. 14: Remove the two 10mm nuts from the studs.

16. Pull the air duct off the studs. It's OK if it comes off the air filter housing too. See Fig. 15 below.



Fig. 15: Air duct between air filter housing and carburetor.

17. The carburetor should now be able to be removed from the studs. Gently slide it off.
18. Remove the fuel line from the intake fitting; slide the hose clamp off the fitting and **gently** slide the fuel line off the fitting. Do not tear the fuel line. See Fig. 16 below.



Fig. 16: Remove hose clamp and fuel line.

19. Make sure the carburetor/intake gasket remains on the studs (see Fig. 17 below) and is not damaged.



Fig. 17: Carburetor/intake gasket.

20. The carburetor has now been completely removed from the engine. Make sure to remove/replace the fuel drain hose, pressure equalization hose, choke cable bracket, etc. See Figs. 18 – 19 below.



Fig. 18: Fuel drain hose.



Fig. 19: Pressure equalization hose.

Optional – removing the muffler cover

If desired, you may partially disassemble the other half of the generator shell in order to remove the gas tank, as instructed in step 8 above. Follow the directions below.

1. Loosen the 3 screws on the **right** side of the muffler cover (see step 5) and the 3 screws from the **left** side of the control panel housing. Set the screws aside. Remove the muffler cover; leave the housing alone.
2. This will give the cover panel and left half of the generator shell some flexibility, so that you can get the other half of the generator shell and the gas tank off.

Installing the new carburetor

Follow steps 1 – 20, in reverse order, to install the new carburetor. Some tips and tricks are below.

21. Re-install pressure equalization hose, drain hose, choke cable bracket, and fuel line.
22. Replace the carburetor on the studs.
23. Re-install the air duct on the studs. Make sure it is securely seated in the air filter housing.
 1. TIP: the air duct's bottom fitting is flared. **Gently** use a flat-head screwdriver to ensure it is seated in the housing hole (Fig. 20 below).



Fig. 20: Hole in air filter housing.

24. Reinstall the 10mm nuts on the studs.
25. Reinstall the choke cable in the choke cable bracket (step 14). Install a zip tie between the choke cable and bracket, as shown in Fig. 13. Make sure to trim the end of the zip tie.
26. Insert the choke cable into the post. Use the markings you made in step 13 to determine how far the cable should be inserted into the post. Tighten the screw.
 1. Pull out on the choke lever on the front panel. You should see the choke (atop the carburetor) open and close.
27. Align the drive shaft of the stepper motor with the slot in the carburetor throttle. See Fig. 21 below.



Fig. 21: Stepper motor shaft and throttle must align.

28. Re-install the stepper motor. Do not forget to install the two screws (Fig. 7).
29. Re-assemble the generator.
 1. Re-assemble the generator shells.
 2. If you chose to follow the optional step of removing the screws from the control panel housing and muffler cover (so the other half of the shell could move more easily), re-attach the control panel housing and muffler cover.
 1. NOTE: it is easiest to not tighten all screws all the way yet; wait until the rest of the components have been aligned. Then tighten everything down.
 3. Re-install the 4 screws removed from the handle in step 7 above.
 4. Re-install the 3 screws removed from the generator shell in step 6 above.
 5. Re-install the screws removed from the control panel housing and muffler cover in step 5 above. Tighten all screws.
 6. Replace the generator's cover panel. Tighten the screws.
 7. Re-connect the spark plug boot.
 8. Replace the spark plug access panel and the oil access panel.
 9. Make sure all hardware is tight.

QUESTIONS? PROBLEMS?

Contact WEN Customer Service at 1-800-232-1195, M-F, 8-5 CST, or email techsupport@wenproducts.com