

Snow Blower

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Overview



Specification	Details
Make	Toro
Model	Powerlite

Engine	98CC Engine 2 Cycle
Width	16"

Pictures



Oil Mixture

Mix with a ratio of **50 to 1** with 2-Cycle Oil (with Fuel Stabilizer).

For 5L, add 100ml.

Started using this with about 4L of unleaded gas:



Parts

<https://www.toro.com/en/parts/partdetails?id=2983&iid=304925&pid=314479>

Part	Part #
Spark Plug	RCJ8Y
66-7460	BULB-PRIMER

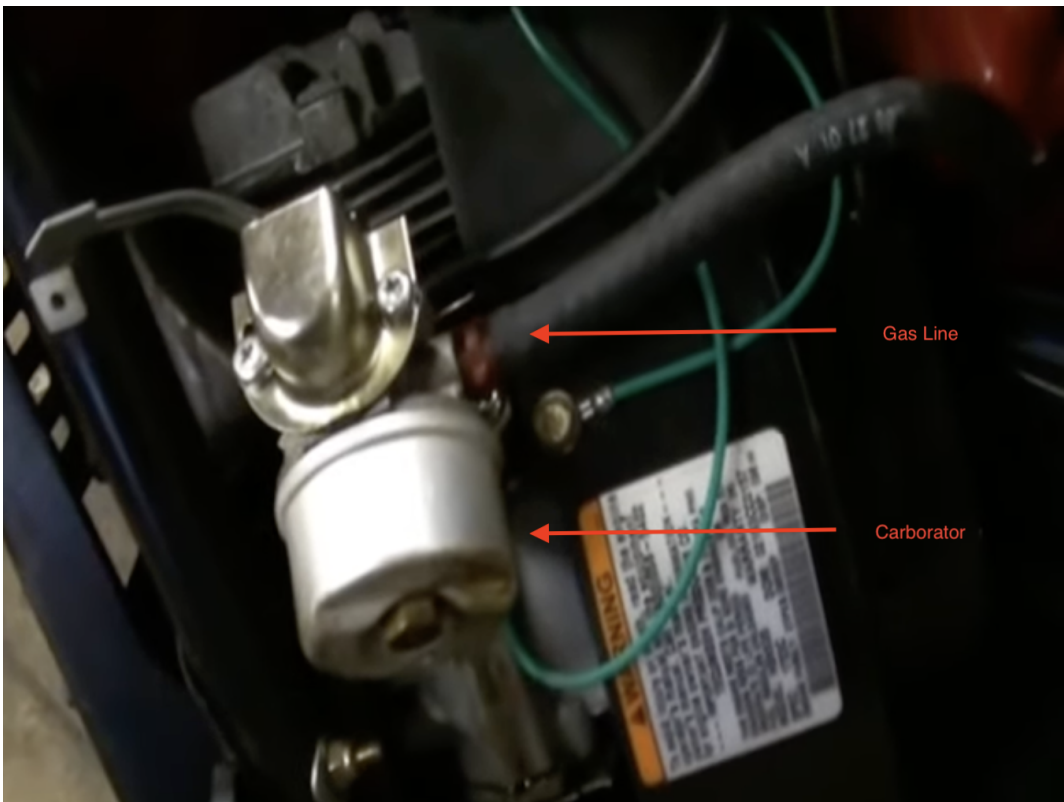
Maintenance

Remove Gas

Remove back cover

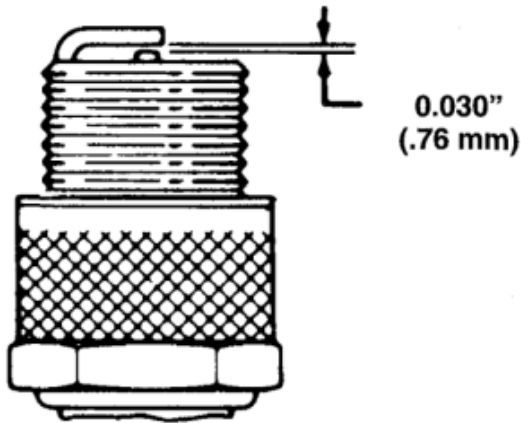


Identify the gas line and carburetor



To remove the gas from the snow blower remove the clip and slide the gas line off. This will allow you to remove all of the gas from the system.

Gapping Spark Plug



TROUBLESHOOTING TIPS

FAILURE TO START

This section is not intended to cover everything that might happen. We will cover the most common problems and provide some tips to speed troubleshooting and repair.

OLD FUEL

By far the most common cause of failure to start is old or dried fuel due to improper storage procedures. The correction procedure varies from engine to engine. The following is an abbreviated carburetor cleaning process which often will get the engine started.

These engines all used diaphragm type carburetors. In this style carburetor, there is a nylon check ball behind the adjustable high speed jet. Storage without running the engine dry often results in some fuel sitting on top of this check ball. It evaporates and effectively glues the check ball down. Fuel cannot pass through the high speed or power circuit. The symptom is often that the engine will not run unless the choke is engaged.

Solution

Supplies: A can of pressurized carburetor cleaner with a small hose which fits into the nozzle. A pump type siphon and something to drain the old fuel into and some fresh fuel mix.

Remove the gas cap and using a pump type siphon, remove as much of the old gas from the fuel tank as possible. Replace with fresh fuel mix.

Follow the left hand handle down to the engine shroud. You will find a slot in the shroud and in that slot will be one or two adjustment needles. On those with two needles, the one we want is on the right. Those with single needles it is the only one there. Turn the needle clockwise until just finger tight (count the revolutions, this will be important later) then turn the needle counterclockwise and remove it.

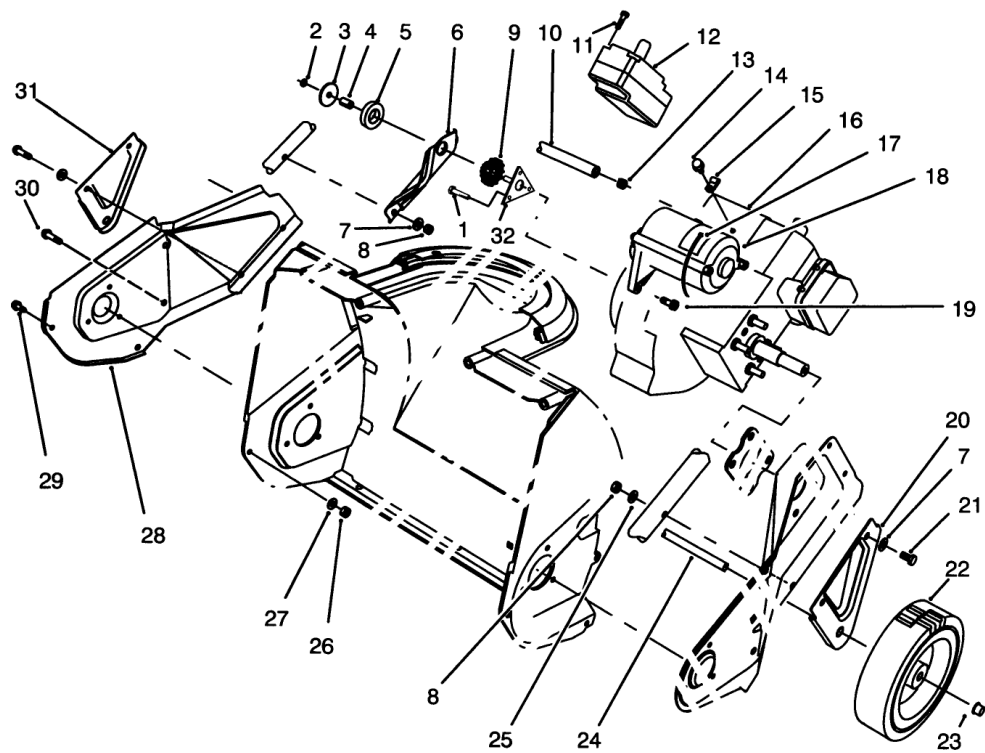
Insert the small hose into the nozzle of the carburetor cleaner and work the hose down into the bottom of the hole that the needle was in. Hold firmly and spray a VERY short burst of carburetor cleaner into the hole. If you held the hose firmly, the carburetor cleaner is directed into the passage where the check ball is. Sometimes you can even hear the ball pop loose. Allow the excess carburetor cleaner to drain, just a minute or so. Wipe the end of the needle with a rag dampened with carburetor cleaner and install the needle. Turn the needle all the way in until you feel it bottom and back it out the same number of turns that it was originally.

The engine will be hard to start as the carburetor cleaner does not burn like gasoline. Go through the starting process 3 or 4 times. If the engine will start, allow it to run for at least 10 minutes. The fresh gasoline flowing through the carburetor will finish the cleaning.

If the engine will not start after the above process is followed, the carburetor may need soaking and a more thorough cleaning. Complete disassembly may be required.

Issues

Wheel Fell Off



Part	Description	Picture	Replaced With
23	PUSH NUT Part #: 3290-320		

References

Reference	URL
User Manual	7156.pdf
Service Manual	6936.pdf

Snow Blower Repair Clogged Carburetor	https://www.youtube.com/watch?v=9SqYELO7rOY
Toro CCR Powerlite Snow Blower Repair Quick Fix part #1	https://www.youtube.com/watch?v=dHqWOz98oZ4
Toro CCR 2450 - How to Clean Carburetor	https://www.youtube.com/watch?v=k8PyCz8f-ag