

# Fuel System

Trouble Shooting



# Trouble Shooting Fuel System

- ⊕ When trouble shooting your fuel system there are basically three conditions that may indicate carburetor trouble;
  - ⊕ No fuel being supplied to the combustion chamber from the carburetor
  - ⊕ Too little fuel being supplied to the combustion chamber from the carburetor
  - ⊕ Too much fuel being supplied to the combustion chamber from the carburetor

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- ⊕ To determine if the carburetor is functioning properly use the following procedure;
  1. *Start the engine. If the engine does not start and you have a good spark at the spark plug, check to see how much if any fuel is being delivered to the combustion chamber by the carburetor. Proceed as follows;*

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1. *Remove the spark plug*
2. *Place your finger or thumb over the spark plug hole*
3. *Close the choke valve (if so equipped)*
4. *Crank engine with the starter 3 or 4 times*
5. *Remove your finger*

*Your finger should be wet if fuel is being delivered to the cylinder by the carburetor.*

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- ⊕ If your finger is wet, the starting problem is not the carburetor – unless it is flooding.(you can refer back to your ignition trouble shooting guide in this case)
  - ⊕ If your finger is not wet, no fuel is getting to the engine.
6. *Put one-half teaspoon of gasoline into the combustion chamber using the following method;*

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- ⊕ Insert a soda straw or length of small tubing into gasoline. When it fills, hold your finger over the top to hold the gasoline in until you can insert the straw into the combustion chamber through the spark-plug hole. Then release it.
- ⊕ Do not put too much fuel in or you will flood the engine and it will not start.

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*7. Reinstall the spark plug*

*8. Start the engine*

- ⊕ If the engine starts and runs for a short while and then stops, this indicates that insufficient fuel is getting past the carburetor, and the trouble is most likely in the carburetor, (see manual for adjustment procedures)
- ⊕ If your engine does not start, this is an indication that the trouble is not in the carburetor unless it is flooding. If you suspect flooding allow the spark plug to dry and try starting again.

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- ⊕ Once engine has started (step # 1);
- 2. Operate the engine at idling speed (2000 – 3000 rpm)
- 3. *Advance throttle suddenly*
- ⊕ The engine should accelerate smoothly and evenly, if it does not it indicates a fuel mixture that is too lean



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## *4. Check the exhaust smoke*

- If the engine gives off black smoke the fuel mixture is too rich (excessive amount of fuel)
- Two – cycle engines should smoke slightly because of the oil in the fuel

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The End

