











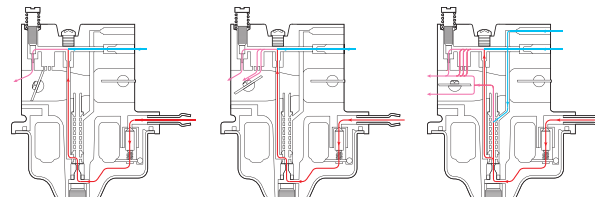
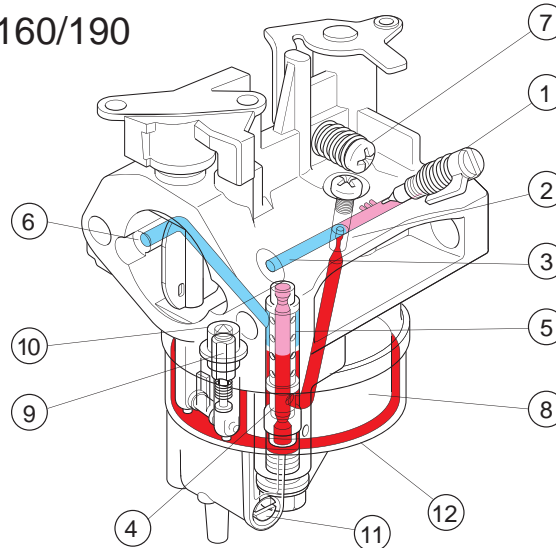
Carburetor Check Sheet

GC-GCV135/160/190

GS-GSV160/190

 Priority check points

Symptom	Cause	Inspection point
<When Idling> Unstable idle speed	Pilot screw coated with foreign material.	 ① Remove foreign materials/dirt. Replace pilot screw.
	Pilot jet clogged.	 ② Remove foreign materials/dirt.
	Pilot jet air path clogged.	 ③ Remove foreign materials/dirt.
Engine does not start	Main jet clogged.	 ④* Remove foreign materials/dirt.
Hard starting	Main nozzle clogged.	 ⑤ Remove foreign materials/dirt.
Engine starts but quickly stops	Main nozzle air path clogged.	 ⑥ Remove foreign materials/dirt.
	Throttle stop screw position incorrect.	 ⑦ Set correct idle speed.
	Float doesn't move properly.	 ⑧ Remove foreign materials around float pin.
Overflow Gasoline leaks	Float valve worn or coated with foreign materials/dirt.	 ⑨ Remove foreign materials/dirt.
	Valve seat worn or coated with foreign materials/dirt.	 ⑩ Don't damage the seat surface. Remove foreign materials/dirt.



Idle rpm

Middle rpm

Max rpm

⑪ For long storage of the engine (more than 3 months).

Drain gasoline from float chamber by loosening the drain bolt while the engine is stopped.

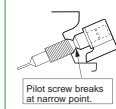


⑫ Check float chamber

Water inside float chamber can cause engine failure. Remove float chamber and clean or replace.

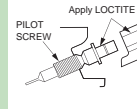


Pilot screw and limiter cap replacement



Pilot screw breaks at narrow point.

When the cap is removed, the pilot screw breaks at the narrow point, between head and thread. To remove the remaining screw, fit an appropriate rubber tube over the remaining screw and turn it.



Apply LOCTITE 638

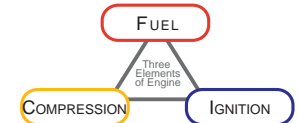
PILOT SCREW

LIMITER CAP







STOPPER

Install a new pilot screw and set it to the position specified in the shop manual. (Refer to "Pilot screw and limiter cap replacement".) Then install the limiter cap with LOCTITE 638.

For General Reference Only ^[1]



Before inspecting the fuel system, perform the minimum inspection for compression and ignition system.

Symptom	Cause	Inspection point
<Full throttle> Engine speed does not increase	Pilot screw coated with foreign material.	 ① Remove foreign materials/dirt. Replace pilot screw.
Poor performance at high speed	Pilot jet clogged.	 ② Remove foreign materials/dirt.
Unstable engine speed	Pilot jet air path clogged.	 ③ Remove foreign materials/dirt.
	Main jet clogged.	 ④* Remove foreign materials/dirt.
	Main nozzle clogged.	 ⑤ Remove foreign materials/dirt.
	Main nozzle air path clogged.	 ⑥ Remove foreign materials/dirt.

Carburetor Cleaning Tools

Carburetor cleaning tools are useful for removing foreign materials/dirt.

*Jet Cleaning Tool (07JPZ-001010B)

Ultrasonic Parts Cleaner Call 888-424-6857



- Clean jet holes with compressed air.
- Remove foreign material with needles.
- Clean with carburetor cleaner and air blow and recheck.
- Clean in 10 - 20 min.
- Uses soapy water and heat.
- Will not harm seals & O-rings.
- Cleans internal passageways.

Caution: Using thick needles and applying strong force to needles will damage jets and nozzles.

^[1] See specific shop manual for detailed information