CARBURETOR TROUBLESHOOTING CHART

PROBLEM	POSSIBLE CAUSE	CORRECTION
HARD STARTING.	Incorrect use of choke.	Correct use of choke.
	Incorrect air-fuel mixture adjustment.	Set mixture adjustment screw in accordance with owner's manual or shop manual instructions.
	Clogged fuel filter.	Clean filter.
	Clogged low speed fuel jets.	Disassemble carburetor and chemically clean.
	Clogged vent in fuel tank cap.	Unclog vent or replace cap.
	Float stuck.	Remove float bowl, check float operation, and correct or replace.
	Float damaged or leaking.	Replace float.
	Incorrect float level.	Set float height in accordance with shop manual specifications.
	Intake air leak.	Check carburetor mounting flanges for air leaks.
	Ignition problem.	Repair, replace, or adjust as necessary.
	Low cylinder compression.	Repair, replace, or adjust as necessary.
POOR IDLE OR STALLING.	Idle speed adjustment(s) set too low.	Adjust idle rpm in accordance with specifications in owner's manual or shop manual.
	Idle speed adjustments are unequal (twin carburetor models and multi-carburetor models using individual throttle stop adjustments).	Equalize throttle stop settings.
	Clogged idle & low speed air bleed.	Disassemble carburetor and chemically clean.
	All causes listed under "HARD STARTING."	
IDLE MIXTURE ADJUSTMENT IS INEFFECTIVE. CARBURETOR DOES NOT RESPOND TO MOVEMENT OF THE IDLE MIXTURE SCREW.	Idle speed set too high.	Adjust idle speed in accordance with specifications in owner's manual or shop manual.
	Clogged low speed air-bleeds.	Disassemble carburetor and chemically clean.
	Damaged mixture adjustment needle.	Replace mixture adjustment needle.
	Mixture adjustment needle "O" ring is not sealing (models using "O" ring).	Replace "O" ring.
	Damaged mixture adjustment needle seat.	Replace carburetor.
	All carburetor problems listed under "HARD STARTING."	

PROBLEM	POSSIBLE CAUSE	CORRECTION
SLOW RETURN TO IDLE.	Idle speed set too high.	Adjust idle speed in accordance with specifications in owner's manual or shop manual.
	Idle speed adjustments are unequal (twin carburetor models and multi-carburetor models using individual throttle stop adjustments).	Equalize throttle stop settings.
	Throttle valve sticking.	Clean and inspect throttle valve and return spring. Replace if necessary.
	Throttle linkage sticking.	Clean and inspect throttle linkage and return spring. Lubricate, repair, or replace as necessary.
	Throttle cable binding.	Correct routing or replace cable as necessary.
ENGINE SURGES WHEN CRUISING AT A CONSTANT SPEED.	Incorrect air-fuel mixture adjustment.	Low Speed - Low speed jet size change. Intermediate - Jet needle height adjustment or primary main jet size change.
	Vacuum piston sticking.	Clean and inspect vacuum piston and return spring. Replace if necessary.
ENGINE DOES NOT DEVELOP FULL POWER, OR MISSES ON ACCELERATION.	Incorrect use of choke.	Correct use of choke.
	Clogged air cleaner.	Clean or replace.
	Incorrect air-fuel mixture adjustment.	Low Speed - Low speed jet size change. Intermediate - Jet needle height adjustment. High Speed - Main jet size change.
	Throttle valves not synchronized (models with two or more carburetors).	Adjust throttle valve synchronization.
	Clogged fuel filter.	Clean filter.
	Clogged fuel jets.	Disassemble carburetor and chemically clean.
	Clogged air bleeds.	Disassemble carburetor and chemically clean.
	Fuel jets loose.	Tighten fuel jets.
	Fuel jet "O" rings leaking (models using "O" rings).	Replace "O" rings.
	Float stuck.	Remove float bowl, check float operation, and correct or replace.
	Float damaged or leaking.	Replace float.
	Incorrect float level.	Set float height in accordance with shop manual specifications.
	Vacuum piston sticking.	Clean and inspect vacuum piston and return spring. Replace if necessary.
	Vacuum piston diaphragm ruptured.	Replace vacuum piston assembly.
	Ignition problem.	Repair, replace, or adjust as necessary.
	Low cylinder compression.	Repair, replace, or adjust as necessary.

NOTE: It may be necessary to change carburetor jets to correct the air-fuel mixture ratios under the following circumstances:

- Exhaust system modifications
- Air cleaner alteration or removal
- Altitude changes
- Temperature and humidity changes