Carbureter Service Diagnosis

The following service diagnosis is applicable only if the carbureter components match the specifications listed in the table on page SF9.

Malfunction	Possible Cause	Remedy
Engine does not start despite properly functioning ignition and adequate fuel in tank	a. Lack of fuel in fuel system	a. Clean main jet. Check fuel suppl- lines. Remove fuel line connecting fuel pump with carbureter and, with ignition off, actuate starter; if pump supplies fuel, float needle valve in plugged; if pump does not supply fuel, trouble may be in stuck pump check valves, faulty pump mechanism or dirty fuel selector valve
	b. Carbureter floods	b. Check and clean float needle valve Check gasket at float needle valve. Check float, if damaged replace with new one
2. Uneven idling	यो ें a. Wrong idle setfings	a. Readjust idle speed
	b. Idle jet or idle air bleed plugged	b. Clean idle jets or idle air bleed respectively
	c. Leak in the intake manifold	c. Check intake manifolds, flange connections, and gaskets
	d. Damaged idle mixture screw	d. Install new idle mixture screw
3. Poor transition (flat spot)	a. Idle settings too lean	a. Readjust idle system, check idle jets
	b. Improper float level	b. Readjust float level
	c. Improper injection quantity	c. Check injection quantity
	d. Leak in the intake manifold	d. Check intake manifolds, flange con- nections, and gaskets
4. Engine stalls when throttle is quickly shut	Wrong idle settings	Readjust idle system
5. Engine runs unevenly, misses, backfires	a. Mixture too rich	a. Check fuel pump pressure. Check float level. Check float needle valve. Check float
	b. Mixture too lean	b. Clean main jets. Check fuel lines. Check float level
	c. Leak in the intake manifold	c. Check intake manifolds, flange connections, and gaskets
High fuel consumption	a. High fuel pressure overriding float needle valve	a. Check fuel pressure
	b. Leak in float	b. Install new float
	c. Float needle valve not closing	c. Check float needle valve