

13. Accelerate or run at high speed
ENGINE DOES NOT KNOCK

ENGINE KNOCKS →

- (1) Worn piston and cylinder
- (2) Fuel-air mixture too lean
- (3) Use of improper grade of fuel
- (4) Excessive carbon build-up in combustion chamber
- (5) Ignition timing too advanced (Faulty CDI unit or advancer)

POOR PERFORMANCE AT LOW AND IDLE SPEED

1. Check ignition timing and valve clearance

INCORRECT →

Probable Cause

- (1) Improper valve clearance
- (2) Improper ignition timing (Faulty CDI unit or spark advancer)

CORRECT

2. Check carburetor pilot screw adjustment

INCORRECT →

- (1) Fuel-air mixture too lean
- (2) Fuel-air mixture too rich

CORRECT

3. Check if air is leaking past carburetor insulator

LEAKING →

- (1) Deteriorated insulator O-ring
- (2) Loose carburetor

NOT LEAKING

4. Try spark test

WEAK OR INTERMITTENT SPARK →

- (1) Faulty, carbon or wet fouled spark plug
- (2) Faulty CDI unit
- (3) AC-generator faulty
- (4) Faulty ignition coil
- (5) Faulty pulse advancer

GOOD SPARK

POOR PERFORMANCE AT HIGH SPEEDS

1. Check ignition timing and valve clearance

INCORRECT →

Probable Cause

- (1) Improper valve clearance
- (2) Faulty CDI unit
- (3) Faulty pulse generator
- (4) Faulty advancer

CORRECT

2. Disconnect fuel tube at carburetor

FUEL FLOW RESTRICTED →

- (1) Lack of fuel in tank
- (2) Clogged fuel line
- (3) Clogged fuel tank breather tube
- (4) Clogged fuel valve

FUEL FLOWS FREELY

3. Remove carburetor and check for clogged jet

CLOGGED →

- (1) Clean

NOT CLOGGED

4. Check valve timing

INCORRECT →

- (1) Cam sprocket not installed properly

CORRECT

5. Check valve spring tension

WEAK →

- (1) Faulty spring

NOT WEAKENED