

12. Check for engine overheating

Not Overheating

Overheating

Possible Cause

- Excessive carbon build-up in combustion chamber
- Use of poor quality fuel
- Clutch slipping
- Lean fuel mixture
- Wrong type of fuel

13. Accelerate or run at high speed

Engine Does Not Knock

Engine Knocks

- Worn piston and cylinder
- Wrong type of fuel
- Excessive carbon build-up in combustion chamber
- Ignition timing too advanced (Faulty spark unit)
- Lean fuel mixture

Poor Performance at Low and Idle Speeds

Possible Cause

1. Check ignition timing and hydraulic tappet condition

Incorrect

- Tappet oil holes clogged
- Tappet damaged
- Improper ignition timing (Faulty spark unit)

Correct

2. Check carburetor pilot screw adjustment

Incorrect

See Fuel System Section

Correct

3. Check for leaking intake pipe

Leaking

- Loose insulator clamps
- Damaged insulator

No Leak

4. Perform spark test

Weak or Intermittent Spark

- Faulty, carbon or wet fouled spark plug
- Faulty spark unit
- Faulty ignition coil
- Broken or shorted spark plug wires
- Faulty engine stop switch
- Faulty pulse generator
- Faulty ignition switch
- Loose or disconnected ignition system wires

Good Spark

Poor Performance at High Speed

Possible Cause

1. Check ignition timing and hydraulic tappet condition

Incorrect

- Damaged hydraulic tappet
- Faulty spark unit
- Faulty pulse generator

Correct

2. Disconnect fuel tube at carburetor

Fuel Flow Restricted

- Clogged fuel line
- Clogged fuel tank breather
- Clogged fuel filter
- Faulty fuel pump

Fuel Flows Freely