

# ENGINE LACKS POWER

Probable Cause

1. Raise wheels off ground and spin by hand.

WHEEL SPINS FREELY

WHEEL DOES NOT SPIN FREELY

- Brake dragging
- Worn or damaged wheel bearing
- Wheel bearing needs lubrication
- Drive chain too tight
- Rear axle nut excessively tightened

2. Check tire pressure with tire gauge.

PRESSURE NORMAL

PRESSURE TOO LOW

- Punctured tire
- Faulty tire valve

3. Try rapid acceleration from low to second.

ENGINE SPEED LOWERED WHEN CLUTCH IS RELEASED

ENGINE SPEED DOES NOT CHANGE WHEN CLUTCH IS RELEASED

- Clutch slipping
- Worn clutch disc/plate
- Warped clutch disc/plate

4. Lightly accelerate engine.

ENGINE SPEED INCREASES

ENGINE SPEED DOES NOT INCREASE SUFFICIENTLY

- Carburetor choke closed
- Clogged air cleaner
- Restricted fuel flow
- Clogged fuel tank breather tube
- Clogged muffler

5. Check ignition timing.

CORRECT

INCORRECT

- Faulty CDI unit
- Faulty pulse generator

6. Check valve clearance.

CORRECT

INCORRECT

- Improper valve adjustment
- Worn valve seat

7. Test cylinder compression using compression gauge.

NORMAL

TOO LOW

- Valve stuck open
- Worn cylinder and piston rings
- Leaking head gasket
- Improper valve timing
- Improperly adjusted decompression mechanism

8. Check carburetor for clogging.

NOT CLOGGED

CLOGGED

- Carburetor or air cleaner not serviced frequently enough

9. Remove spark plug.

NOT FOULED OR DISCOLORED

FOULED OR DISCOLORED

- Plug not serviced frequently enough
- Use of plug with improper heat range