

ENGINE LACKS POWER

1. Raise wheels off ground and spin by hand

WHEEL SPINS FREELY



2. Check tire pressure with the gauge

PRESSURE NORMAL



3. Try rapid acceleration from low to second

ENGINE SPEED LOWERED



4. Lightly accelerate engine

ENGINE SPEED INCREASED



5. Check ignition timing

CORRECT



6. Check valve clearance

CORRECT



7. Test cylinder compression using a compression gauge

NORMAL



8. Check carburetor for clogging

NOT CLOGGED



9. Remove spark plug

NOT FOULED OR DISCOLORED



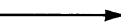
WHEEL DOES NOT SPIN FREELY



Probable Cause

- (1) Brake dragging
- (2) Worn or damaged wheel bearing
- (3) Wheel bearing needs lubrication
- (4) Faulty final gear

PRESSURE TOO LOW



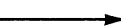
- (1) Punctured tire
- (2) Faulty tire valve

ENGINE SPEED DOES NOT CHANGE



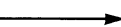
- (1) Clutch slipping
- (2) Worn clutch disc/plate
- (3) Warped clutch disc/plate

ENGINE SPEED NOT INCREASED SUFFICIENTLY



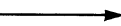
- (1) Carburetor choke opened
- (2) Clogged air cleaner
- (3) Restricted fuel flow vent
- (4) Clogged fuel tank breather hole
- (5) Clogged muffler

INCORRECT



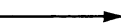
- (1) Faulty CDI unit
- (2) Faulty pulse generator
- Improper flywheel installation

INCORRECT



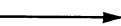
- (1) Improper valve adjustment
- (2) Worn valve seat

TOO LOW



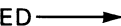
- (1) Valve stuck open
- (2) Worn cylinder and piston rings
- (3) Leaking head gasket
- (4) Improper valve timing

CLOGGED



- (1) Carburetor not serviced frequently enough

FOULED OR DISCOLORED



- (1) Plug not serviced frequently enough
- (2) Use of plug with improper heat range