

## ENGINE LACKS POWER

CHECK	SYMPTOM	PROBABLE CAUSE
1. Raise rear wheels off ground and spin by hand	WHEEL DOES NOT SPIN FREELY	(1) Brake dragging (2) Worn or damaged wheel bearing (3) Wheel bearing not lubricated properly (4) Drive chain too tight (5) Rear axle nut excessively tightened
WHEEL SPINS FREELY		
2. Check tire pressure with tire gauge	TIRE PRESSURE IS TOO LOW	(1) Punctured tire (2) Faulty tire valve
PRESSURE NORMAL		
3. Check clutch slipping	CLUTCH SLIPS	(1) Clutch spring weak (2) Worn clutch disc/plate (3) Warped clutch disc/plate (4) Faulty clutch lifter
CLUTCH ENGAGED PROPERLY		
4. Lightly accelerate engine	ENGINE SPEED DOES NOT INCREASE SUFFICIENTLY	(1) Clogged air cleaner (2) Restricted fuel flow (3) Clogged fuel tank breather tube (4) Clogged muffler
ENGINE SPEED INCREASED		
5. Check ignition timing using timing light	IGNITION TIMING IS INCORRECT	(1) Faulty CDI unit (2) Faulty alternator
IGNITION TIMING IS CORRECT		
6. Test cylinder compression by operating kick pedal using a compression gauge	COMPRESSION IS LOW	(1) Faulty reed valve (2) Worn cylinder and piston rings (3) Leaking head gasket (4) Flaws in cylinder head, cylinder or crankcase
COMPRESSION IS NORMAL		
7. Check for clogged carburetor	CARBURETOR IS CLOGGED	(1) Damaged fuel strainer (2) Carburetor dirty
CARBURETOR IS NOT CLOGGED		
8. Remove spark plug	PLUG IS FOULED OR DISCOLORED	(1) Plug not serviced frequently enough (2) Use of plug with improper heat range
PLUG IS NOT FOULED OR DISCOLORED		