



ENGINE DOES NOT START OR IS HARD TO START

1. Check fuel flow to carburetor

REACHING CARBURETOR



2. Perform spark test

GOOD SPARK



3. Test cylinder compression

COMPRESSION NORMAL



4. Start by following normal procedure

ENGINE DOES NOT FIRE



5. Remove and inspect spark plug

NOT REACHING CARBURETOR



POSSIBLE CAUSE

- (1) Fuel tank empty
- (2) Clogged fuel tube or fuel filter
- (3) Sticking float valve
- (4) Clogged fuel tank cap breather hole

WEAK OR NO SPARK



- (1) Faulty spark plugs
- (2) Fouled spark plugs
- (3) Faulty spark unit
- (4) Broken or shorted high tension wires
- (5) Faulty A.C. generator
- (6) Broken or shorted ignition coil

LOW COMPRESSION



- (7) Faulty ignition switch
- (8) Faulty pulser generator
- (1) Low battery charge
- (2) Improper valve clearance
- (3) Valve stuck open
- (4) Worn cylinder and piston rings
- (5) Damaged cylinder head gasket
- (6) Seized valve
- (7) Improper valve timing

ENGINE FIRES BUT STOPS

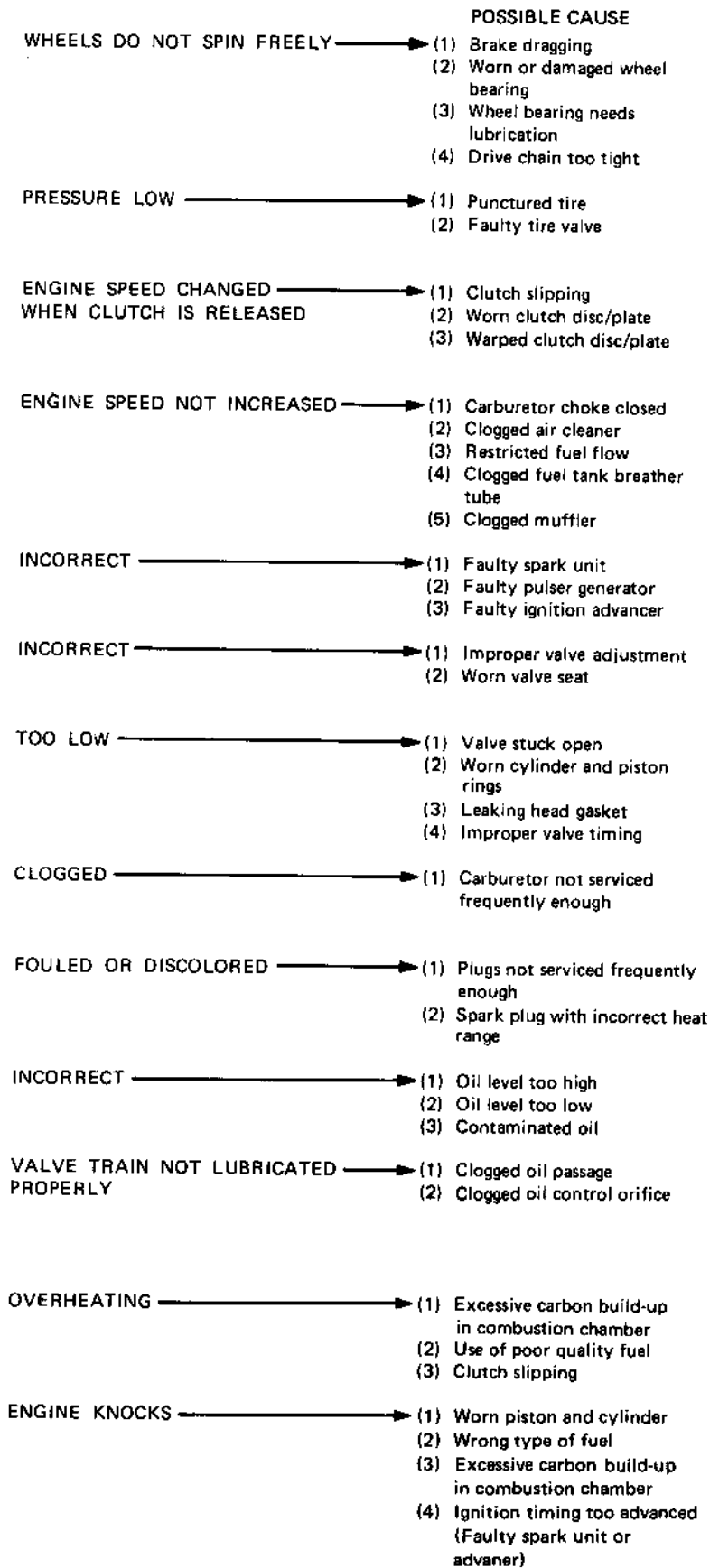
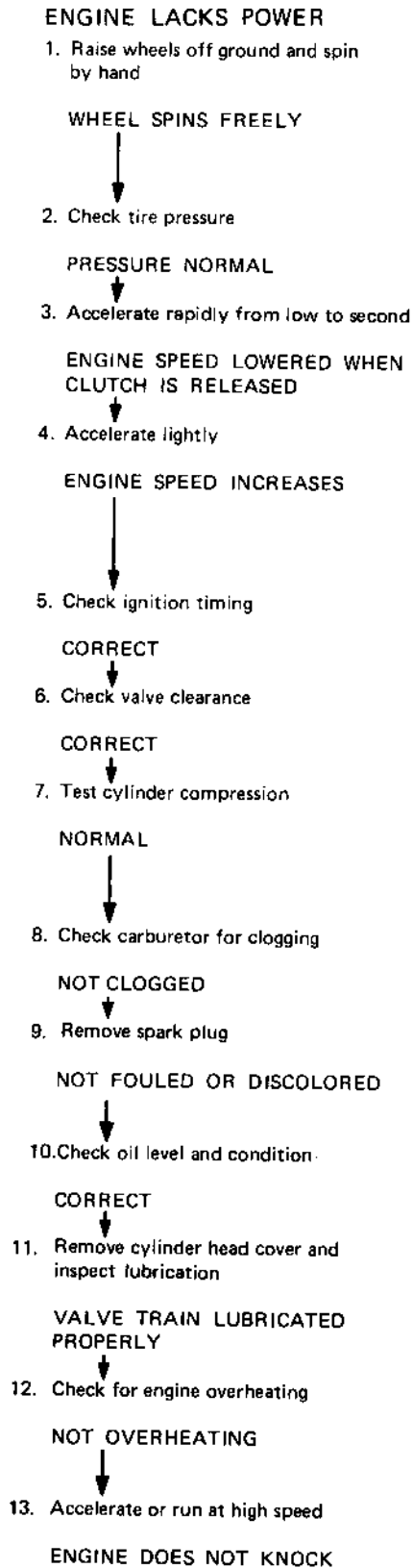


- (1) Improper choke operation
- (2) Carburetor incorrectly adjusted
- (3) Manifold leaking
- (4) Improper ignition timing (Spark unit or pulser generator)
- (5) Incorrect fast idle
- (6) Fuel contaminated

WET PLUG



- (1) Carburetor flooded
- (2) Choke closed
- (3) Throttle valve open
- (4) Air cleaner dirty





POOR PERFORMANCE AT LOW AND IDLE SPEEDS

		POSSIBLE CAUSE
1. Check ignition timing and valve clearance	INCORRECT	(1) Improper valve clearance (2) Improper ignition timing (Faulty spark unit or spark advancer)
CORRECT		
2. Check carburetor low speed circuits	INCORRECT → See Fuel System Section	(1) Clogged passages (2) Float level incorrect
CORRECT		
3. Check for leaking manifold	LEAKING	(1) Deteriorated insulator O-ring (2) Loose carburetor
NO LEAK		
4. Perform spark test	WEAK OR INTERMITTENT SPARK	(1) Faulty, carbon or wet fouled spark plug (2) Faulty spark unit (3) A.C. generator faulty (4) Faulty ignition coil (5) Faulty spark advancer
GOOD SPARK		

POOR PERFORMANCE AT HIGH SPEED

1. Check ignition timing and valve clearance	INCORRECT	(1) Improper valve clearance (2) Faulty spark unit (3) Faulty pulser generator (4) Faulty spark 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 hole (4) Clogged fuel valve
FUEL FLOWS FREELY		
3. Remove carburetor and check for clogged jet	CLOGGED	(1) Clean
NO CLOG		
4. Check valve timing	INCORRECT	(1) Cam sprocket not installed properly
CORRECT		
5. Check valve spring tension	WEAK	(1) Faulty spring
NOT WEAKENED		

POOR HANDLING → Check tire pressure

1. If steering is heavy		(1) Steering adjustment nut too tight (2) Damaged steering head bearings
2. If either wheel is wobbling		(1) Excessive wheel bearing play (2) Distorted rim (3) Improperly installed wheel hub (4) Swing arm pivot bushing excessively worn (5) Distorted frame (6) Improper drive chain tension or adjustment
3. If the motorcycle pulls to one side		(1) Improperly adjusted shock absorber (2) Front and rear wheels not aligned (3) Bent front fork (4) Bent swing arm