

21. TROUBLESHOOTING

**ENGINE DOES NOT START OR IS
HARD TO START**

21-1

**POOR PERFORMANCE AT LOW
AND IDLE SPEEDS**

21-3

ENGINE LACKS POWER

21-2

POOR PERFORMANCE AT HIGH SPEED

21-4

ENGINE DOES NOT START OR IS HARD TO START

Probable Cause

1. Check to see if fuel is getting to the carburetor.

NOT GETTING TO CARBURETOR → *

- Clogged fuel tube or fuel strainer
- Clogged float valve
- Clogged fuel tank cap breather tube

GETTING TO CARBURETOR

2. Try spark test.

WEAK OR NO SPARK → ••

- Faulty spark plug
- Fouled spark plug
- Faulty CDI unit
- Broken or shorted spark plug wire
- Faulty alternator
- Broken or shorted ignition coil
- Faulty engine stop switch
- Faulty pulse generator
- Poorly connected, broken or shorted wires

SPARKS JUMP

3. Test cylinder compression

LOW COMPRESSION → ••

- Insufficient valve clearance
- Valve stuck open
- Worn cylinder and piston
- Damaged cylinder head gasket
- Improper valve timing
- Improper valve and seat contact
- Seized valve

COMPRESSION NORMAL

4. Start by following normal starting procedure.

ENGINE FIRES BUT SOON STOPS → *

- Choke excessively open
- Carburetor pilot screw excessively closed
- Air leaking past intake pipe
- Improper ignition timing (CDI unit or pulse generator faulty)

ENGINE DOES NOT FIRE

5. Remove spark plug.

WET PLUG → ••

- Carburetor flooded
- Carburetor choke excessively closed
- Throttle valve excessively open
- Clogged air cleaner element

DRY

6. Pour small amount of fuel into cylinder from the spark plug hole, install plug and try to start engine

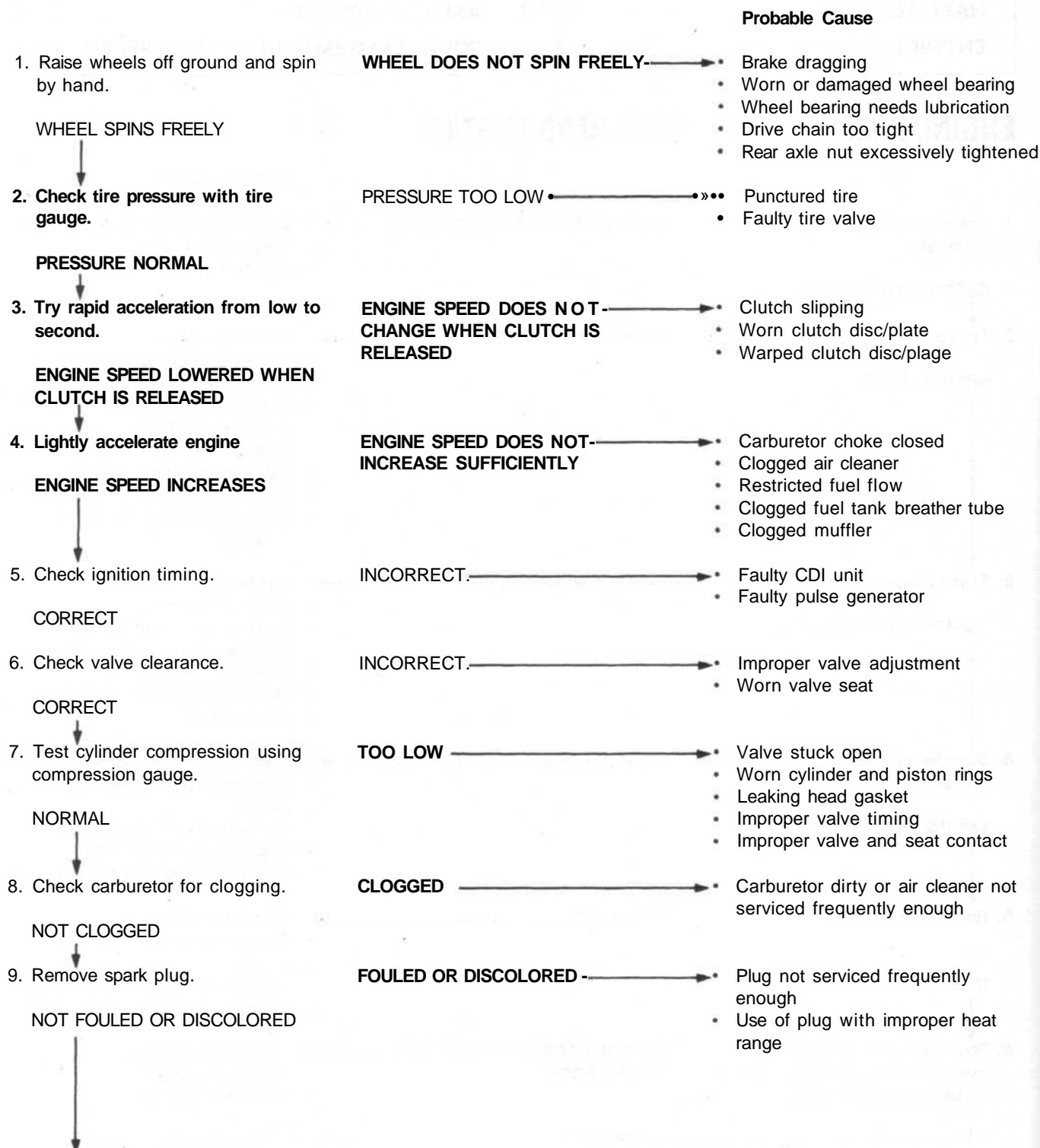
ENGINE STARTS BUT STOPS SOON → ••

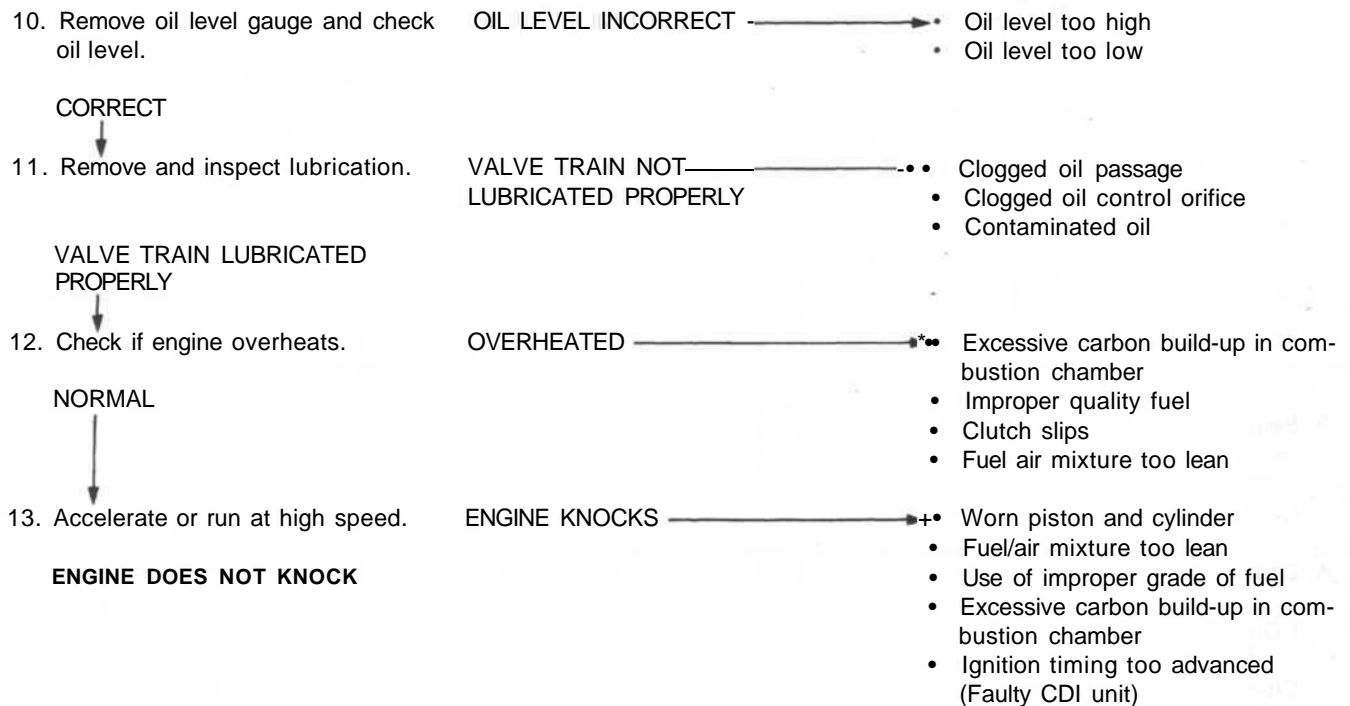
- Clogged carburetor
- Faulty carburetor
- Restricted fuel line

ENGINE DOES NOT START → ••

- Incorrect ignition timing

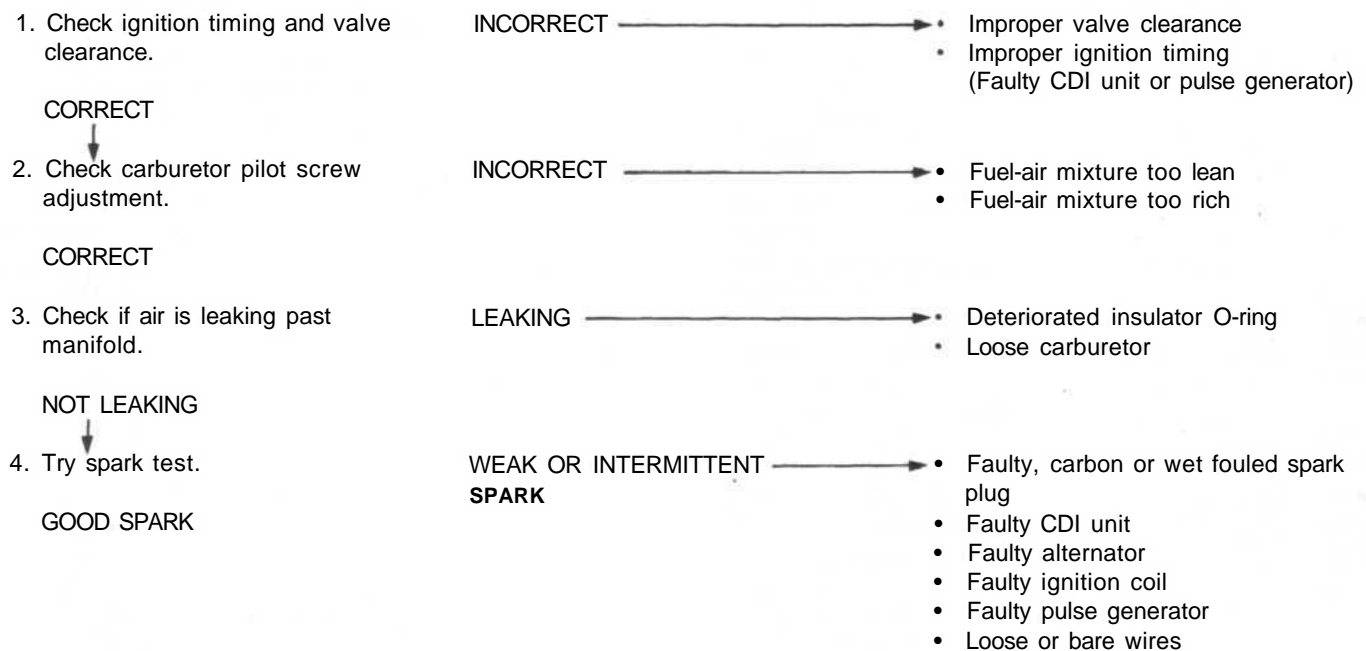
ENGINE LACKS POWER





POOR PERFORMANCE AT LOW AND IDLE SPEEDS

Probable Cause



POOR PERFORMANCE AT HIGH SPEED

