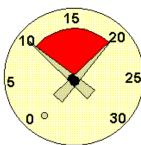


Normal engine

Steady gauge 18"-20" at all speeds. Throttle Is released and engine quickly drops from over 2000 RPM to Idle. Needle jumps 2" - 5" above normal, then drops to normal without pause or hesitation.

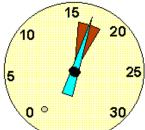


Needle wavers rapidly

between 10"-20" at Idle, becomes worse at higher RPM. Weak or broken valve spring causing valve to open slowly.

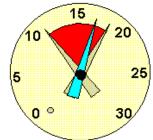
Needle wavers irregularly

Needle wavers at idle, fluctuates rapidly in smaller range at higher RPM. Manifold leak at intake port.



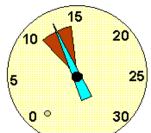
Steady low

Less than 2" down from normal. Retarded Ignition timing.



Drifts at idle, stabilizes at higher RPM

Burnt valve; combustion chamber

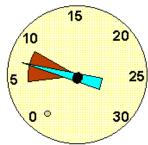


Steady very low Late valve timing



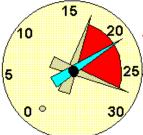
Wavers irregularly in one range despite engine speed.

Unbalanced carburetion improper spark plug gapi lgnltlon timlngi poor valve seating.



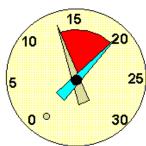
Steady Extremely low

Up to 15" drop Warped or cracked Intake manifold. Bad carburator-tomanifold gasket.



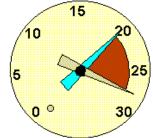
Vacuum averages lower than

normal at idle, needle fluctuates almost 3" on both sides of normal. Worn valve guldes admitting air, and upsetting carburetion.



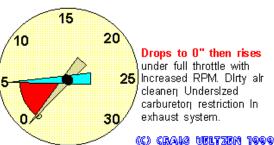
Needle rhythmically drops

1"-7" below normal Leaking combustion chamber or valve; ignition or plugfailure effecting one cylinder Needle drops rapidly but Intermittently and then recovers. Valve stickling at tlmes, or won't close properly.



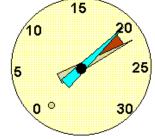
Needle jumps 2"- 5" above normal upon quick deceleration,

but hesitates at a higher pressure before returning to normal. Restricted exhaust system causing back pressure.



Drops to 0" then rises

under full throttle with Increased RPM. Dirty air cleaner, Undersized carburetor, restriction Inexhaust system.



Needle does not jump much beyond normal when throttle is gulckly closed, and engine speed Is cut from above 2000RPM to Idle. Piston rings may be worn and allowing blow-by into the crankcase.