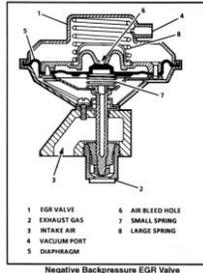


Vacuum EGR Worksheet

Name _____

Date _____



Vehicle _____

Year: _____ Make: _____

Model: _____ . Engine # cylinders _____ . Displacement _____ .

Fuel system type (TBI, PFI, etc.): _____ .

Ignition system (distributor or distributorless) _____ .

DTC's (if any) and descriptions: _____ .

- 1) Start and warm engine. Locate Vacuum controlled EGR system. With engine idling, manually open EGR valve by placing fingers beneath valve and pulling upwards toward top of valve. What effect did this have to the engine? _____ . If there was no difference when the EGR diaphragm was pushed, what is the problem? _____ .
- 2) Disconnect the vacuum hose to the EGR valve. Connect a vacuum pump to the valve and apply vacuum while engine is idling. The engine should stumble/ stall. Does it? _____ . If not, what is the problem? _____ .
- 3) Did the EGR valve hold vacuum when performing #2? _____ . If not, either the diaphragm is leaking or a backpressure EGR valve is being used. Which one applies to your vehicle? _____ .
- 4) Connect a vacuum "T" in the vacuum hose to the EGR valve. Attach a vacuum gauge to the T. Record vacuum during : Engine idle (park) _____ . Engine at 2000 RPM (park): _____ . Now go for test drive and record the following vacuum readings: Vehicle in gear cruising at 30 mph _____ . Vehicle accelerating from stop to 30 MPH _____ . When was the most vacuum? _____ . The least? _____ . Why? _____ . Is the vacuum controlled EGR system working correctly? _____ .
- 5) Check the condition of the system for defective components or leaks including vacuum hoses, solenoids, modulators and exhaust feedback hoses connected between the exhaust system and any EGR vacuum control valves. Does this system use exhaust feedback pressure? _____ How can you tell? _____ .
- 6) Does the EGR system on this vehicle check out okay? _____ . If not, what is the problem(s)? _____ . If the problem isn't fixed, will this vehicle pass a smog test? _____ . If not, what exhaust gas reading will be too high? _____ . Why? _____ .