

Vacuum Testing

Meets NATEF Task: (A8-A-5) Perform engine absolute (vacuum/boost) manifold pressure tests; determine necessary action. (P-1)

Name	Date	Time on Task
Make/Model/Year	VIN	Evaluation: 4 3 2 1
1. Connect the vacu	um gauge to a manifold vacuum	1 source.
2. Vacuum at idle =	in. Hg. (should be 17-21	1 in. Hg. and steady).
	he engine. (Vacuum should droj lle vacuum snap reading.	p close to zero, and then increase
	/	
4. Drive the vehicle	on a level road in high gear at a	a steady speed.
Cruise vacuum =	in. Hg. (should be 10 - 1	15 in. Hg.)
5. Accelerate the ve	chicle in high gear to W.O.T.	
W.O.T. vacuum	= in. Hg. (should be almo	ost zero) $\left(\begin{array}{c} 1 \\ 2 \\ 3 \\ 3 \\ 4 \\ 4 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$
6. Decelerate the ve	chicle from 50 MPH with the three	ottle closed.
Deceleration vac idle vacuum)	uum = in. Hg. (should be	e higher than
the engine speed	out of gear and the brake firmly a to 2,000 RPM and hold for one exhaust restriction.	11 /
Results =	in. Hg.	
	Disable the ignition or the fuel i vacuum during cranking.	ignition system. Crank the engine
Cranking vacuum	n = in. Hg. (should be]	higher than 2.5 in. Hg.)

9. Based on the test results, what is the necessary action?