Port Fuel-Injection System Diagnosis

Meets NATEF Task: (A8-D-1) P-2 Diagnose hot or cold no-starting, hard starting, poor driveability, incorrect idle speed, poor idle, flooding, hesitation, surging; determine action.

Name	Date	Time on Task
Make/Model/Year	VIN	Evaluation: 4 3 2 1
1. Check service information fuel injection system.	on for the recommended p	rocedure to follow to diagnose the
2. Attach a fuel pressure ga	uge to the Schrader valve	on the fuel rail, if available.
3. Turn the ignition key to	"on" or start the engine to	build up the fuel pump pressure.
psi (should rea	ach specified fuel pressure	e, usually about 35-45 psi)
fuel rail = psi.		erve the fuel pressure retained in the psi in 20 minutes, everything is OK. si in 20 minutes.)
a. the checkb. leaking in	valve in the fuel pump.	s, there is a possible problem with:
To determine which	unit is defective, perform	the following:
Step #1: Step #2:		ine, wait 10 minutes. If the pressure eplace the fuel pump. If the pressure
Step #3:	Repeat the pressure buil	ld up of the electric pump and ne. If the pressure drop time is now
Step #4:	If the pressure drop still Remove the injectors w	l occurs, the injectors are leaking. ith the fuel rail and hold over paper. that drip a drop or more after 10
-	plastic fuel lines. Connec	et shut-off valves to the fuel system
5. Based on the test results,		ion?