

▶ TASK Inspect and test fuel injectors.



Time off _____
 Time on _____
 Total time _____

CDX Tasksheet Number: C842

Vehicle used for this activity:

Year _____ Make _____ Model _____
 Odometer _____ VIN _____

1. Research the fuel injector testing procedure for this vehicle in the appropriate service information. **List the following:**

- a. Specified resistance for the fuel injectors: _____ ohms
- b. Fuel pump pressure (key on/engine off): _____ psi/kPa
- c. List or print off and attach to this sheet the steps to test the fuel injectors.

2. Visually inspect the fuel injectors for leaks, damage, etc. **List your observations:**

3. Follow the specified procedure to test the fuel injectors. **List your observations:**

4. If the service information doesn't list a method for testing the injectors, use the following method.

- a. Install the fuel pressure gauge on the fuel rail.
- b. Disconnect the fuel injector electrical connectors.
- c. Connect the injector pulsing tool to one fuel injector, according to the toolmaker's instructions, and set it for the specified amount of time in milliseconds.
- d. Pressurize the fuel rail by turning on the ignition switch for a few seconds. Then turn the ignition switch off.
- e. **List the fuel pressure:** _____ psi/kPa
- f. Activate the injector pulsing tool for the appropriate amount of time. Watch the pressure gauge and record the pressure after the injector has been cycled on and off (one time). List your readings below. Continue this test on each fuel injector, remembering to pressurize the fuel rail each time before activating the injector pulsing tool.
- g. **List your readings for each injector.**

| | |
|---------------------------|---------------------------|
| Injector #1 _____ psi/kPa | Injector #2 _____ psi/kPa |
| Injector #3 _____ psi/kPa | Injector #4 _____ psi/kPa |
| Injector #5 _____ psi/kPa | Injector #6 _____ psi/kPa |
| Injector #7 _____ psi/kPa | Injector #8 _____ psi/kPa |

NOTE Uneven pressure drops indicate uneven fuel flow through each injector.

5. Determine any necessary action(s):

6. Measure the resistance of each fuel injector and list your readings.

| | |
|------------------------|------------------------|
| Injector #1 _____ Ohms | Injector #2 _____ Ohms |
| Injector #3 _____ Ohms | Injector #4 _____ Ohms |
| Injector #5 _____ Ohms | Injector #6 _____ Ohms |
| Injector #7 _____ Ohms | Injector #8 _____ Ohms |

7. Determine any necessary action(s):

8. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

CDX Tasksheet Number: C842

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Supervisor/instructor signature _____ Date _____