

Freeze Frame and MIL Activity

Meets NATEF Task: (A8-B-2) Diagnose the causes of emissions or driveability concerns resulting from malfunctions in the computerized engine control system with stored DTCs. (P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

The purpose of this activity is to allow the service technician apply the use of freeze frames in the diagnosis of OBD II faults.

_____ 1. Connect a scan tool with the key on, engine off (KOEO), and disconnect the electrical connection from the throttle position (TP) sensor. Wait 3 seconds.

_____ 2. A TP sensor TP fault diagnostic trouble code (DTC) should have been set.

_____ Yes (DTC was set) _____ No (no DTC was set) Turn the ignition off and back on. Did the DTC set?
_____ Yes _____ No

_____ 3. Using a scan tool, view the freeze frame created when the DTC was set.

_____ OK (freeze frame was set) _____ No (freeze frame was not set)

_____ 4. Is the malfunction indicator lamp (MIL or check engine) on? _____ Yes _____ No

_____ 5. Check service information and list the reason(s) that could cause the MIL to be on in the event of a disconnected TP sensor.

_____ 6. Check service information and determine what needs to occur to turn off the MIL.

