

Scan Tool Diagnosis

Meets NATEF Task: (A8-B-1) Retrieve and record diagnostic trouble codes, OBD monitor status, and freeze frame data; clear codes when applicable. (P-1)

Name _____ Date _____ Time on Task _____

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

(Not all of this data will be available on all vehicles or scan tools - if not available, put NA.)

_____ 1. DTCs: _____ Pending DTC: _____

_____ 2. Engine coolant temperature (ECT): cold _____ warm _____

_____ 3. Intake air temperature (IAT): cold _____ warm _____

_____ 4. Upstream O2S1: lowest voltage observed _____ highest voltage observed _____

_____ 5. Upstream O2S2: lowest voltage observed _____ highest voltage observed _____

_____ 6. Downstream O2S: lowest voltage observed _____ highest voltage observed _____

_____ 7. O₂ cross counts: @ idle _____ @ 2,000 RPM _____

_____ 8. Injector pulse width: @ idle (park) _____ @ idle (drive) _____

_____ @ 2,000 RPM (park) _____ @ 3,000 RPM (park) _____

_____ 9. Spark advance: @ idle (park) _____ @ idle (drive) _____

_____ @ 2,000 RPM (park) _____ @ 3,000 RPM (park) _____

_____ 10. Short term fuel trim (integrator): @ idle (park) _____

_____ @ idle (drive) _____ @ 2,000 RPM (park) _____

_____ 11. Long term fuel trim (block learn): @ idle (park) _____ @ idle (drive) _____

_____ 12. MAP: @ idle (park) _____ @ idle (drive) _____

_____ 13. MAF (grams/sec): @ idle (park) _____ @ idle (drive) _____

_____ @ 2,000 RPM (park) _____ @ key on (engine off) _____

_____ 14. IAC counts: @ idle (park) _____ @ idle (drive) _____

_____ @ A/C on (drive) _____ @ 2,000 RPM (park) _____

_____ 15. Throttle position (TP) sensor: @ idle _____ @ W.O.T. engine off, ignition "on" _____

_____ 16. Battery voltage: _____

_____ 17. All monitors run and passed? OK _____ NOT OK _____

_____ 18. Troubles with the vehicle? (if any) _____