

# Scan Tool Diagnosis

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

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. O<sub>2</sub> 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) \_\_\_\_\_