

NAME _____

INSTRUCTOR _____

Lane _____ Vehicle _____

Surge x Steady

Perform a starter amperage draw test and record your results. _____ x _____ 4 pts

Perform a starter circuit voltage drop on the insulated side of the circuit and record your results. _____ x _____ 2 pts

What effect would mechanical resistance have on your starter amperage draw test. _____ x _____ 2 pts

Use the wiring diagram to answer the following questions:

What type of sensor is the TPS? _____ x _____ 2 pts

What type of sensor is the fuel level sensor? _____ x _____ 2 pts

How can you tell the difference between the two? _____ x _____ 2 pts

What type of oxygen sensor does this vehicle use? _____ x _____ 2 pts

What fuse does the camshaft sensor get 12 volts from? _____ x _____ 2 pts

What color wire is CMS signal wire from the sensor? _____ x _____ 2 pts

Vehicle _____ Tool _____

Using a scope capture and draw an injector pattern

What are your volt/div set to? _____ x _____ 2 pts

What are your time/div set to? _____ x _____ 2 pts

What is the injector pulse width? _____ x _____ 2 pts

What is the frequency of the injector? _____ x _____ 2 pts

Station I

Station II

Station III

Relay # _____ Relay Type _____

Draw relay inner circuit

Show fault in drawing if applicable

Relay Condition – Explain Fault:

Complete the following measurements:

CIRCUIT	Terminal	Specs. NOT Activated	Measured	Specs Activated	Measured	Pass/Fail
CONTROL	86-85					
POWER	30-87					
OTHER	30-87A					

Relay # _____ Relay Type _____

Draw relay inner circuit

Show fault in drawing if applicable

Relay Condition – Explain Fault:

Complete the following measurements:

CIRCUIT	Terminal	Specs. NOT Activated	Measured	Specs Activated	Measured	Pass/Fail
CONTROL	86-85					
POWER	30-87					
OTHER	30-87A					

