LAB - Snap-On MODIS

Students:	1	Date:
	2.	Block:

ATTENTION: This equipment is VERY expensive - Please take good care of it

CLEAN HANDS ARE A MUST 50 50 50

Fill in each box with the appropriate information. Place checks (\checkmark) where applicable. Be sure to have Instructor's initials before moving on to the next step.

VEHICLE IDENTIFICATION					
Year/Make/Model:					
VIN:					

SYSTEM INVESTIGATION

MODIS stands for Modular Diagnostic Information
System. It is an amazingly powerful device that includes:

Scan Tool for OBD and OBD II vehicles
Fast-Track Troubleshooter
Component Tests in step-by-step format
Lab and Ignition scope
Digital Volt-Ohm Meter
Record activity during the test drive



The MODIS can do far more than this lab covers. By all means - PLAY with it! See what it can do! See what you can check out on your car. You cannot hurt anything on your car by playing with this machine - it only "reads" things, so PLAY!

If you are in doubt about anything in this lab, ask your instructor for help.

SAFETY & PREPARATION

2

Safe work practices are vital working around a running engine

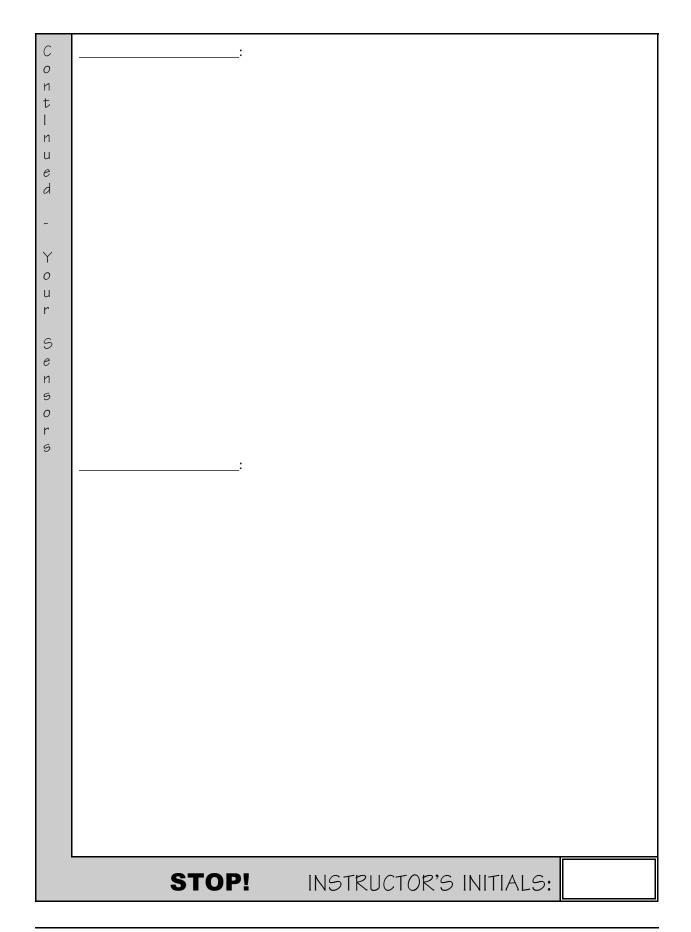
Keep fingers and tools AWAY from moving parts

Keep the hoses and cords and connectors of the scope AWAY from moving parts

Always use a fender cover to protect paint when working under the hood

SCAN	NER					
3	Turn on the MODIS. Use the [THUMBWHEEL], [Y] and [N] pads to select:					
	[SCANNER]					
	Select your vehicle from the flyout list and pay careful attention to the VIN codes:					
	10 th Digit: Vehicle Year 5 th Digit: Vehicle Model 4 th Digit: Engine	You may be asked to connect a certain adapter to the MODIS for your vehicle - make a note of where				
	Because of the wide range of vehicles and no real diagnostic standards prior to 1996,	the adapter came from so it goes right back when you are done.				
	parts of this lab are not specifically detailed in every way. You will need to see what I'm after, and based on YOUR vehicle, fin things I ask for are pretty standard tests an					
4	Once you have entered the data on your vehicle, you should be in the Main Menu.					
	You should find a section that allows you to Check Codes. If your vehicle cannot communicate its codes to the MODIS, describe below How to Get Codes:					
	What codes, if any, are shown in your vehicle?					
	STOP! INSTRU	ICTOR'S INITIALS:				
DATA	DISPLAY					
5	On most OBD and OBDII systems, the following values can be retrieved by the MODIS. Record what you find, with the Key On Engine Running (KOER):					
	TPS (V): (Throttle Position Sensor)					
	O2 (Mv): (Oxygen Sensor (Pre-Cat if more than one)					
	INJ PW (mS): (Injector Pulse-Width)					
	ECT (°C): (Engine Coolant Temperature)					
	lf your vehicle is too old to use this wonderful feature, you may only skip this step AFTER your instructor's signature					
	STOP! INSTRU	CTOR'S INITIALS:				

FUNCTIONAL TESTS				
You will be testing FOUR (4) components. Two of my choice, and two of your choice.				
to through the testing procedure. Briefly describe below HOW the component is ested, and GIVE the results you found. Expect to DEMONSTRATE how you checked ach component. MODIS leads you through the procedure very well - ask your structor if you need help.				
Throttle Position Sensor:				
Oxygen Sensor:				



TROU	JBLESHOOTER				
7	Troubleshooter is a great tool - it lists test procedures as well as the most likely cause of the problem for that vehicle! If your vehicle is experiencing a specific problem, use the Troubleshooter to help find and solve the problem. Tell your instructor what you are hunting for. Otherwise,				
	Briefly describe the step-by-step MODIS procedures for troubleshooting EITHER (circle):				
	1) Missfire	or	2) No Start, Cranks OK		
	STODI	INSTRUCTOR'S I	INIITIAI G.		

This lab will continue to grow as I learn how to use more of the MODIS features....