

EP-LAB 11-IATS
NATEF TASK SHEET --- SECTION A8 B.2,4,5,6 P-1

ENGINE PERFORMANCE ECTS: TEST AND EVALUATE INTAKE AIR TEMPERATURE SENSOR

Student: _____ Date: _____ Period: _____

Year: _____ Make: _____ Model: _____ Engine: _____

OBJECTIVE: Student will test Intake Air Temperature Sensor (IATS) with a DVOM and Scan Tool, compare to specifications, and evaluate sensor.

- MATERIALS:**
1. **EYE PROTECTION**
 2. DVOM and Scan Tool
 3. Mitchell On Demand or All-Data
 4. Vehicle (see instructor)

PROCEDURE: **WEAR EYE PROTECTION!** Look up, print out, and attach directions for removing, installing, and testing Intake Air Temperature Sensor using All-Data or Equivalent.

BRIEFLY DESCRIBE THE PROCEDURE FOR TESTING THE SENSOR WITH A DVOM:

BRIEFLY DESCRIBE THE PROCEDURE FOR TESTING THE SENSOR WITH A SCAN TOOL:

WITH DVOM	Measured	Temperature	Specifications
SENSOR READING COLD:	Ohms _____	_____ F°/ C°	Ohms _____
SENSOR READING WARM:	Ohms _____	_____ F°/ C°	Ohms _____
<i>Attach the resistance specifications chart</i>			
WITH SCAN TOOL	Temp According to Scan Tool		Actual Temperature
SENSOR READING COLD:	_____ F°/ C°		Actual Air Temperature _____ F°/ C°
SENSOR READING WARM:	_____ F°/ C°		Engine Compartment Air Temperature _____ F°/ C°
SENSOR LOCATION:			
WHICH TESTING METHOD IS MORE ACCURATE? CIRCLE ONE: SCAN TOOL DVOM			
WHICH TESTING METHOD IS FASTER? CIRCLE ONE: SCAN TOOL DVOM			
DOES THE SENSOR NEED TO BE REPLACED? CIRCLE ONE: YES NO			
<i>WHAT WOULD HAVE MADE THIS TASK EASIER?</i>			

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	Initial	OVERALL SKILL EVALUATION	Points
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMS SATISFACTORILY (4)		SAFETY COMPLIANCE (1)	
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)	
ASSISTED IN PERFORMING (2)		LEVEL OF SKILL ATTAINED (1-5)	
EXPOSURE, OBSERVATION (1)		TOTAL SCORE	
INSTRUCTOR'S SIGNATURE:			

EP-LAB 11-IATS 09 / 05-27-09 / vdb