

NATEF TASK SHEET --- SECTION A.6 B.1, D.1 (P-1)

SC6: ALTERNATOR VOLTAGE OUTPUT TEST:

IS THE ALTERNATOR WORKING?

Student: _____ Date: _____ Period: _____

Vehicle 1: VIN: _____ Year: _____ Make: _____ Model: _____

Vehicle 2: VIN: _____ Year: _____ Make: _____ Model: _____

OBJECTIVE: Student will test the alternator outputs on two different vehicles and determine necessary action.

- MATERIALS:**
1. ***EYE PROTECTION!***
 2. Volt-Ohm-Meter
 3. Two Vehicles (see instructor)

PROCEDURE: ***WEAR EYE PROTECTION!*** Watch power point SC6.
 Use fender cover, seat covers, and floor mats. Start with ignition OFF. All accessories OFF. Key out of ignition. Doors, glove box and trunk closed. Inspect alternator belt, note condition, and tension. 1. Connect voltmeter to vehicle battery and note voltage reading. 2. Start engine and allow to idle and note voltage reading. 3. Rev engine to fast idle.(1800rpm)and note voltage reading. 4. Still at fast idle, Turn on headlamps and note voltage reading. Record your results below. Repeat for second vehicle.
 (TO PASS, ALL RUNNING VOLTAGE READINGS MUST BE HIGHER THAN "OFF" VOLTAGE)

Note Alternator Belt Condition: VEHICLE 1: _____ VEHICLE 2: _____

<u>VOLTAGE READINGS:</u>	VEHICLE 1	VEHICLE 2
IGNITION OFF VOLTAGE		
IDLE VOLTAGE		
FAST IDLE VOLTAGE		
WITH HEADLAMPS AT FAST IDLE VOLTAGE		

Vehicle 1: (Circle) PASS FAIL Vehicle 2: (Circle) PASS FAIL

(TO PASS, ALL RUNNING VOLTAGE READINGS MUST BE HIGHER THAN "OFF" VOLTAGE)

Your Recommendations:

(Does the alternator need to be replaced? How about the belt?)

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: _____

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