

NATEF TASK SHEET --- SECTION A.6 D.1,2,4 P-1

SC7: ALTERNATOR, REMOVAL AND INSTALLATION

Replacing the Alternator when it is bad!

Student: _____ Date: _____ Period: _____

VIN: _____ Year: _____ Make: _____ Model: _____

Engine: _____ Transmission: _____ Production Date: _____

OBJECTIVE: Student will test, remove, install, and retest the alternator.

- MATERIALS:**
1. **EYE PROTECTION**
 2. Hand tools, terminal puller, and pry bar
 3. Volt-Ohm-Meter
 4. Vehicle (see instructor)

GENERAL PROCEDURES: WEAR EYE PROTECTION !

Use fender cover, seat covers, and floor mats.

(For specific applications, refer to All-Data or Mitchell-On-Demand)

Print out and attach to back of task sheet

Determine need for Alternator replacement. (Test the alternator!)

REMOVAL: Disconnect the negative battery terminal from the battery.

Remove or loosen and relocate engine accessories, as required for alternator access.

Disconnect all wires from the alternator. Tag the connectors for reinstallation.

Loosen the adjusting bolt that holds the alternator to its adjusting bracket. Loosen the lower mounting bolt on the alternator. Carefully push the alternator toward the engine until you can remove the drive belt from the pulleys. Remove the alternator.

INSTALLATION: Put the alternator on the mounting bracket and adjusting bracket. Loosely install the mounting and adjusting bolts and any spacers and washers. Install the alternator belt(s) and pull the alternator away from the engine by hand to keep the belts in place. Carefully pry the alternator away from the engine with a wooden hammer handle or pry bar. Check for proper tension on belt. Tighten adjusting bolt, then mounting bolt. Reconnect wiring to alternator. Reinstall any accessories removed. Reconnect battery negative cable. Test alternator operation.

Record charging voltage *BEFORE* @ (Idle) _____

Record charging voltage *AFTER* @ (Idle) _____

YOUR RECOMMENDATIONS:

(Does the alternator need to be replaced? What 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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