JOB SHEET A6D1 Charging System Output Test

		Start Date:	
Name:		End Date:	
Make:	Model:	Year:	
VIN:		Mileage:	

LEARNING OBJECTIVE/NATEF TASK

- Perform charging system output test; determine necessary action NATEF TASK A6/D1, P1. ICS160, ICS167
 - Diagnose charging system for the cause of undercharge, no-charge, and overcharge conditions. **NATEF TASK A6**/**D2, P1.**

MATERIALS

Classroom Vehicle (s), OEM service information

PROCEDURE

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- Wear Safety Glasses for this entire procedure.
- Locate in the OEM service information the procedure for testing the charging system output for the vehicle you are using. Submit this procedure to your instructor or mentor for approval.

Your Instructor MUST stamp or initial the box to the right before you can proceed with this job sheet.



2. What Safety Precautions are necessary during charging system output testing?

3. Set the vehicle parking brake and place the vehicle in neutral. Observe all standard shop safety practices and precautions.

A6/U5/L2 CHARGING SYSTEM DIAGNOSIS & SERVICE

4. Perform a preliminary charging system output test; determine action:

PRELIMINARY CHECKS	NECESSARY ACTION

- 5. What diagnostic equipment are you going to use to test the condition of
- the charging system?6. List the steps used to perform a voltage output test on a charging system.
- 7. Perform a voltage output test on the charging system. List the results: Battery OCV test:_____ Charging system output voltage at 1,500 rpm:_____
- 8. List the steps to perform a current output test on a charging system:
- 9. Perform a current output test on a charging system. Record the results: System specifications:
 - Charging current output:
- 10. List the steps used to fully field a charging system and determine if the regulator is performing as designed:
- 11. What are the precautions to observe when performing a full-field alternator test?

12.Perform a full-field regulator by-pass test and record the results below:

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A6/U5/L2 CHARGING SYSTEM DIAGNOSIS & SERVICE

- Charging system current output before full-field test: ______
- Charging system current output during a full-field test:______

TASK SUMMARY

• Now that you have completed this NATEF task, can you think of anything (tools, information, knowledge etc.) that would have made this task easier.

• List a customer complaint together with the cause determined by this diagnostic/inspection task that might appear on a work order, and then list the NATEF Task CORRECTION you would use to resolve the complaint.

COMPLAINT: _____

1. Perform Checks/Inspect:
2. Referencing Bulletin:
CAUSE:
1. Diagnosis: USED THIS NATEF DIAGNOSIS TASK
2. Operating as designed:
3. Cause identified as:
CORRECTION:
1. Other Correction:
2. Correction Verified By:
Use this Rubric to RATE the completion of Job Sheet 1 = Demonstrated exposure/observation of the competency 2 = Applies the competency but only mastered a few essential attributes of the competency 3 = Capable of the competency but needs further practice 4 = Performs the competency satisfactorily 5 = MASTERED the competency

Instructor

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