

NATEF TASK SHEET --- SECTION A.6 B. 1, 2 (P-1)

SC4A: BATTERY CONDUCTANCE TEST

Determining: Do I need to buy a new Battery?

Student: _____ Date: _____ Period _____

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

Engine: _____ Transmission: _____ Production Date: _____

OBJECTIVE: Student will determine battery state of charge, test battery with conductance tester, and determine if battery needs replacement.

- MATERIALS:**
1. **EYE PROTECTION**
 2. Battery Conductance Tester
 3. Vehicle or Battery(see instructor)

PROCEDURE: ***WEAR EYE PROTECTION Read this entire task sheet before proceeding!***

Watch video SC4A. Use fender covers. Connect Conductance Tester to Battery & leave connected. Follow the on-screen directions to test the battery. Set Cold Cranking Amps on tester. Press test. Note all results below:

RESULTS:

Record Battery Appearance: _____ *Is it dirty, clean, corroded, missing hardware, etc...?*
Initial Voltage Reading _____ *Volts - A min of 12.4 volts is required to do the test!*
Battery Amperage rating (CCA) _____ **Cold-Cranking-Amps** *(It's on the battery label!)*
Actual CCA reading of Battery _____ *This is the actual CCA results from the tester!*
CCA rating required by vehicle _____ *Look it up on All-Data, Google, or in the battery catalog*

RESULTS: PASS _____ FAIL _____

If the battery fails this test, what needs to be done to repair the vehicle?

Inspect the battery terminals, and hold-down hardware for tightness and corrosion:

What did you find? _____

Is the CCA rating of the battery in the vehicle adequate for the application? Yes No *circle one*

YOUR RECOMMENDATIONS: _____
(Does the Battery need to be charged, cleaned, or replaced? Why?)

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	<i>Initial</i>	OVERALL SKILL EVALUATION	<i>Points</i>
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMED INDEPENDENTLY (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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