

# A6/U4/L2 BATTERY DIAGNOSIS & SERVICE

## JS A6B4/6 Battery Inspection/Service

Name: \_\_\_\_\_ Start Date: \_\_\_\_\_  
Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year: \_\_\_\_\_  
VIN: \_\_\_\_\_ Mileage: \_\_\_\_\_

### LEARNING OBJECTIVE/NATEF TASK



- Inspect, clean, fill, and replace battery **NATEF TASK A6/B4, P2. ICS 160, 166**
- Inspect and clean battery cables, connectors, clamps, and hold-downs; repair or replace as needed. **NATEF TASK A6/B6, P1. ICS 160, 166**

### MATERIALS

Classroom Vehicle (s), OEM service information, Distilled water, Clamp puller, battery-lifting tool, baking soda, wire brush

### PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Locate in the OEM service information the procedure for battery inspection, cleaning, and service for the vehicle you are using. Submit this procedure to your instructor for approval.

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



1. Describe the general appearance of the battery and inspect and record the condition of the following battery components:

COMPONENT	CONDITION	NEEDED SERVICE
Battery Support Tray		
Battery Hold-Down		
Battery Posts		
Battery Cables, Clamps		

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2. What tools and equipment would be useful in cleaning the battery and associated components?  
\_\_\_\_\_
3. What are the necessary safety precautions that should be observed when working with or near a battery?  
\_\_\_\_\_
4. Is the battery level and properly secured? \_\_\_\_\_.
5. If the battery is of the conventional type, check the electrolyte level. If the battery needs to be filled, what type of water should be used and how full should it be filled? \_\_\_\_\_.
6. Inspect the battery case for any visible cracks, loose terminal posts, or other signs of physical damage. Note any faults found.  
\_\_\_\_\_
7. Inspect all cables for broken or corroded wires, frayed insulation, or loose or damaged connectors. Note any found.  
\_\_\_\_\_
8. Visually check the battery terminals, cable connectors, metal parts, hold down and the tray for corrosion damage or buildup. Is any present?  
\_\_\_\_\_
9. What is the purpose of the baking soda solution?  
\_\_\_\_\_
10. Remove the battery terminal connectors with a clamp puller. What could happen to a battery if you attempt to remove these connections by prying or them with a screwdriver? \_\_\_\_\_
11. Use a wire brush to clean the battery terminals and connectors.
12. Reinstall the connectors onto the battery terminals. Once this is completed what should the connectors be coated with? \_\_\_\_\_
13. What procedures are most helpful when inspecting, filling, and cleaning a battery, and associated cables, connectors, and holddowns?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## 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.

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- List a customer complaint together with the cause that might appear on a work order, which would require this task as the correction.

**COMPLAINT:** \_\_\_\_\_

1. Perform Checks/Inspect: \_\_\_\_\_

2. Referencing Bulletin: \_\_\_\_\_

**CAUSE:** \_\_\_\_\_

1. Diagnosis: \_\_\_\_\_

2. Operating as designed: \_\_\_\_\_

3. Cause identified as: \_\_\_\_\_

**CORRECTION:**                    **THIS NATEF TASK JOB SHEET**

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** \_\_\_\_\_ **Mentor** \_\_\_\_\_