A6/U13/L3 BODY COMPUTER SYSTEMS

JOB SHEET A6H7 Radio Static Diagnosis

Start Date: _____

Name: _____ End Date: _____

Make: _____ Model: _____ Year: _____

VIN: _____ Mileage: _____

Learning Objective/NATEF Task

- Diagnose radio static and weak, intermittent, or no radio reception; determine necessary action **NATEF TASK A6/H7, P3. ICS167**

Materials

Classroom Vehicle (s), OEM service information, DMM, Jumper wires, Scan Tool

Procedure

- Wear Safety Glasses for this entire procedure.
- Review Lesson 3 of UNIT 13 in the A6 course. Locate in the OEM service information the diagnostic procedure for radio static or poor radio reception for the vehicle you are using along with its wiring diagram. Submit this information 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.

Instructor Approval

1. Turn on the radio and listen for noise. You can hear noise best on the AM band. Describe what you heard:

_____

_____

2. LIsten to the radio on the same station as above with the engine running and not-running and describe the difference in noise under both conditions:

_____

_____

3. Operate the radio in AM and FM. Does the noise appear in both bands?_____ If the noise is only on FM, what could be the problem?

_____

4. If the noise is heard on both AM and FM, continue the test by checking the antenna and its connections. Is the antenna firmly mounted and in good condition? _____
5. Check the connection of the antenna cable to the antenna. Are the contacts clean and is the cable connector in good condition? _____
6. Connect a jumper wire from the base of the antenna to a known good ground. Then listen for the noise. Did the noise level change?_____ Describe and explain the results:

_____

_____

7. Based on the OEM service manual, identify any noise suppression devices used on this vehicle. The noise suppression devices are:

_____

_____

8. Are all of the noise suppression devices present securely mounted to a clean well-grounded surface? _____
9. Connect a jumper wire from a known good ground to the grounding tab on each capacitor-type noise suppressor. Listen to the radio and describe and explain the results of doing this:

_____

10. Turn off the engine and disconnect the wiring harness from the AC Generator. Start the engine and listen to the radio and describe and explain the results of doing this: _____
11. Check the spark plug wires and spark plugs. Are both of these noise suppressor-types? _____
12. Describe the routing, condition, and connections of these spark plug cables:

_____

_____

13. Connect a jumper from a good ground to a rear speaker frame and listen to the radio and describe what you hear:

_____

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 _____ **Mentor** _____