

A6/U14/L3 VEHICLE COMMUNICATIONS

JOB SHEET A6H10 Module Communication Errors

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

LEARNING OBJECTIVE/NATEF TASK



- Check for module communication errors using a scan tool. **NATEF TASK A6/H10, P3. ICS161**

MATERIALS

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

PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review UNIT 14 on Computer Module Communication in the A6 course. Locate in the OEM service information the diagnostic system check for Scan Tool use with the Engine Control or Body Electrical Systems for the vehicle you are using for this Job Sheet. 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.



NOTE: Lack of communication may be due to a partial malfunction of the class 2 serial data circuit or due to a total malfunction of the class 2 serial data circuit. The specified procedure will determine the particular condition

1. Install an OBD II compliant or OEM Scan Tool to the vehicle following the recommendations of the Scan Tool manufacturer.

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2. Did the Scan Tool Power up? _____. If it did not power-up what do you do next?

3. Select the IPC display DTC function on the scan tool. Does the Scan Tool Display any Diagnostic Trouble Codes (DTC)? _____. List any codes displayed: _____.
If there are no DTCs, what do you do? _____

4. Select the ABS/TCS display DTC function on the scan tool. Does the Scan Tool Display any Diagnostic Trouble Codes (DTC)? _____. List any codes displayed: _____.
If there are no DTCs, what do you do? _____

5. Select the PCM display DTC function on the scan tool. Does the Scan Tool Display any Diagnostic Trouble Codes (DTC)? _____. List any codes displayed: _____.
If there are no DTCs, what do you do? _____

6. The Keyword protocol utilizes a single wire bidirectional data line between the modules and the scan tool. The message structure is a request and response arrangement. Keyword serial data is used for scan tool diagnostics only. The modules do not exchange data on this circuit. Did the Scan Tool communicate with Keyword Data Line? _____

7. If NOT, what do you do?

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TASK SUMMARY

- After performing the above NATEF tasks, what can you determine will be helpful in knowing how to complete the tasks in this Job Sheet.

- 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

