

Suspension and Steering Systems: Electronically Controlled Steering and Suspension Service

Student/intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Learning Objective/Task	CDX Tasksheet Number	2013 MLR NATEF Reference Number; Priority Level	2013 AST NATEF Reference Number; Priority Level	2013 MAST NATEF Reference Number; Priority Level
• Inspect electric power-assisted steering.	C700	4B21; P-3	4C19; P-3	4C20; P-3
• Test and diagnose components of electronically controlled steering systems using a scan tool; determine necessary action.	C186			4B19; P-3
• Describe the function of the power steering pressure switch.	C931	4B24; P-3	4D3; P-3	4D3; P-3
• Identify hybrid vehicle power steering system electrical circuits and safety precautions.	C551	4B22; P-2	4B18; P-2	4B19; P-2

Time off _____
Time on _____
Total time _____

Materials Required

- Vehicle with electronically controlled steering system
- Scan tool
- DMM/DVOM
- Manufacturer- and job-specific tools

Some Safety Issues to Consider

- Diagnosis of this fault may require test-driving the vehicle on the school grounds. Attempt this task only with full permission from your instructor and follow all guidelines and policies exactly.
- Lifting equipment such as vehicle jacks and stands, vehicle hoists, and engine hoists are important tools that increase productivity and make the job easier. However, they can also cause severe injury or death if used improperly. Make sure you follow the manufacturer's operation procedures. Also, make sure you have your supervisor's/instructor's permission to use any particular type of lifting equipment.
- Vehicle springs store a lot of energy, which, if released improperly, can cause injury or death. Please familiarize yourself with the manufacturer's safety precautions related to these procedures.
- Some suspension systems are electronically controlled, and can raise or lower without notice. Please familiarize yourself with the manufacturer's safety precautions related to these procedures.

- Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

Performance Standard

0—No exposure: No information or practice provided during the program; complete training required

1—Exposure only: General information provided with no practice time; close supervision needed; additional training required

2—Limited practice: Has practiced job during training program; additional training required to develop skill

3—Moderately skilled: Has performed job independently during training program; limited additional training may be required

4—Skilled: Can perform job independently with no additional training