

Suspension and Steering Systems: Front-Suspension Diagnosis

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
<ul style="list-style-type: none"> Diagnose short- and long-arm suspension system noises, body sway, and uneven ride-height concerns; determine necessary action. 	C852		4C1; P-1	4C1; P-1
<ul style="list-style-type: none"> Diagnose strut suspension system noises, body sway, and uneven ride-height concerns; determine necessary action. 	C853		4C2; P-1	4C2; P-1

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle hoist
- Vehicle with short- and long-arm suspension system concern
- Vehicle with strut suspension system concern
- Depending on the type of concern, special diagnostic tools may be required. See your supervisor/instructor for instructions to identify what tools may be required.

Some Safety Issues to Consider

- When running any vehicles in the shop, make sure you use the shop's exhaust ventilation system to discharge all exhaust gas safely outside.
- 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