

# Suspension and Steering Systems: Front Suspension Service—Strut and Torsion Bar

## 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 strut cartridge or assembly.	C926	4B16; P-1		
• Inspect front-strut bearing and mount.	C927	4B16; P-1		
• Inspect track bar, strut rods/radius arms, and related mounts and bushings.	C921	4B11; P-1		
• Inspect suspension system torsion bars and mounts.	C924	4B14; P-1		
• Inspect, remove, and install strut cartridge or assembly, strut coil spring, insulators (silencers), and upper-strut bearing mount.	C794		4C10; P-3	4C10; P-3
• Inspect, remove, and install track bar, strut rods/radius arms, and related mounts and bushings.	C934		4C11; P-3	4C11; P-3
• Inspect, remove, and install torsion bars and mounts.	C194		4C8; P-3	4C8; P-3

Time off \_\_\_\_\_

Time on \_\_\_\_\_

Total time \_\_\_\_\_

## Materials Required

- Vehicle equipped with strut suspension
- Vehicle with torsion bar suspension
- Strut compressor
- Torque wrench
- Manufacturer- and job-specific tools

## Some Safety Issues to Consider

- 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.
- 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.
- 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.
- 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