

## Front Suspension Service—Long and Short Arm

### Student/Intern information:

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

### Vehicle used for this activity:

Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_

Odometer \_\_\_\_\_ VIN \_\_\_\_\_

Learning Objective/Task	CDX Tasksheet Number	2017 MAST NATEF Reference Number; Priority Level
• Inspect, remove, and/or replace front/rear stabilizer bar (sway bar) bushings, brackets, and links.	C793	4C9; P-3
• Inspect, remove, and/or replace short and long arm suspension system coil springs and spring insulators.	C193	4C7; P-3
• Inspect, remove, and/or replace steering knuckle assemblies.	C192	4C6; P-3
• Inspect, remove, and/or replace upper and lower control arms, bushings, shafts, and rebound bumpers.	C790	4C3; P-3
• Inspect, remove, and/or replace strut rods and bushings.	C791	4C4; P-3
• Inspect, remove, and/or replace upper and/or lower ball joints (with or without wear indicators).	C792	4C5; P-2

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

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

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

### Materials Required

- Vehicle equipped with short and long arm suspension
- Dial indicator
- Spring compressor
- Ball Joint press
- Torque wrench
- Manufacturer- and job-specific tools
- Grease gun with specified grease

### 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