

**NATEF**  
**TASK SHEET --- SECTION A-4 C.1, 10. (P-1)**

**SS LAB A4 C1.10: REMOVE AND INSTALL MAC PHERSON STRUT ASSEMBLY**

Student: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

VIN: \_\_\_\_\_ Year: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_

Engine: \_\_\_\_\_ Transmission: \_\_\_\_\_ Production Date: \_\_\_\_\_

**OBJECTIVE:** Student will remove, inspect, and install strut cartridge or assembly, strut coil spring, insulators (silencers), and upper strut bearing mount and determine necessary action.

- MATERIALS:**
1. **EYE PROTECTION**
  2. Hand Tools
  3. Lug wrench, Torque wrench, and sockets
  4. Jack and safety stands
  5. Vehicle (see instructor)

**PROCEDURE:** **WEAR EYE PROTECTION!** Print out or write down directions from All-Data or Mitchell-On-Demand. Put vehicle in park and set parking brake. Raise vehicle and secure on safety stands or hoist. Open hood and remove top strut retaining nuts. Remove front tire. Separate brake line or brake sensor wires from strut (Where applicable). Mark the connection of lower strut to steering knuckle to save alignment. Remove both lower strut retaining bolts and nuts. Remove Strut Assembly. Get instructor approval to reinstall strut. \_\_\_\_\_  
 Reinstall in reverse order of disassembly. Instructor Initials

Strut Upper Retaining Bolt Torque: \_\_\_\_\_ Strut Lower Retaining Bolt Torque: \_\_\_\_\_

Condition/Appearance of Strut: \_\_\_\_\_

Problems Encountered: \_\_\_\_\_

YOUR RECOMMENDATIONS: \_\_\_\_\_

**INSTRUCTORS EVALUATION**

LEVEL OF SKILL ATTAINED	<i>Initial</i>	OVERALL SKILL EVALUATION	<i>Points</i>
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMS SATISFACTORILY (4)		SAFETY COMPLIANCE (1)	
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)	
ASSISTED IN PERFORMING (2)		LEVEL OF SKILL ATTAINED (1-5)	
EXPOSURE, OBSERVATION (1)		<b>TOTAL SCORE</b>	
<b>INSTRUCTOR'S SIGNATURE:</b> _____			