

## NATEF TASK SHEET --- SECTION A4 B11 P-2

### SS LAB A4 B11: Flush, Fill, and Bleed Power Steering Fluid

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

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

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

**OBJECTIVE:** Student will flush, fill, and bleed power steering system.

- MATERIALS:**
1. **EYE PROTECTION.**
  2. Hand tools
  3. Power Steering Fluid Type: \_\_\_\_\_ Qty: \_\_\_\_\_
  4. Funnel and Drain Pan
  5. Vehicle (see instructor)

**PROCEDURE:** **WEAR EYE PROTECTION! With engine cool !**

1. Use fender covers, floor mats, and seat covers. Start engine and turn the steering wheel fully to the left and to the right Turn off the engine and raise the front end of the vehicle off the ground until the tires and wheels turn freely.
2. Place a large container under the fluid return hose in order to collect the draining fluid.
3. Remove the fluid return hose at the power steering pump reservoir inlet connection.
4. Plug the reservoir return hose inlet connection on the power steering pump (use cork or rubber plug).
- SERVICE NOTE: Do not run the engine without the power steering fluid level at FULL COLD.***
5. Start and run the engine at idle while an assistant maintains the fluid level at FULL COLD in the reservoir using new approved power steering fluid.
6. When you have used one quart, turn off the engine and turn the steering wheel fully to the left and to the right.
7. Remove the plug from the pump reservoir inlet connection and Install the fluid return hose to the pump reservoir.
8. Maintain the fluid level at FULL COLD and operate the engine at idle for approximately 5 minutes.
9. Repeat steps 3-5 if necessary.
10. Inspect the power steering fluid for the following indications of contamination:  
 • Milky fluid – water, • Brown fluid – burnt, • Plastic debris or dirt chunks **Note appearance:** \_\_\_\_\_
11. If the fluid is contaminated, repeat steps 6-10 in order to complete a third flush.
12. Remove the plug from the pump reservoir inlet connection.
13. Install the fluid return hose to the pump reservoir.
14. Clean any spilled fluid and Bleed the power steering system
15. Put old fluid in waste oil disposal drum.
16. Clean and put away drain pan and fluid not used.
16. Clean and put away all tools.

**Check system for leaks. Note Location of Leaks:** \_\_\_\_\_

**\*\*\*Look-up and Write Power Steering System Capacity Here:** \_\_\_\_\_ qts.

**How much fluid did you use?** \_\_\_\_\_ Quarts.

#### 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)		<b>LEVEL OF SKILL ATTAINED (1-5)</b>	
EXPOSURE, OBSERVATION (1)		<b>TOTAL SCORE</b>	

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