

NATEF TASK SHEET --- SECTION A1 D.6 P-1

CS4: REMOVE AND INSTALL THERMOSTAT AND TEST OPERATION

Student: _____ Date: _____ Period: _____

VIN: _____ Year: _____ Make: _____ Model: _____

Engine: _____ Transmission: _____ Production Date: _____

OBJECTIVE: Student will remove and install thermostat, test operation, and determine necessary action.

- MATERIALS:**
1. **EYE PROTECTION**
 2. Hand Tools and Torque wrench
 3. Computer information system
 4. Coolant, Sealer and Gasket
 5. Vehicle (see instructor)



PROCEDURE: **WEAR EYE PROTECTION!** Watch power point CS4.
WITH ENGINE COOL! Look up and print out directions for removing and installing thermostat on All-Data or Mitchell-on-Demand. Attach procedure to back of task sheet. Carefully remove radiator cap. Locate radiator drain and loosen drain plug and drain coolant into suitable container. Locate thermostat housing and remove bolts. Remove thermostat housing and thermostat. Inspect thermostat and test. Clean gasket material from housing and opposite surface. Place thermostat into position with the correct side up. Apply thin layer of sensor safe sealer to both sides of new gasket. Install gasket and then housing. Hand tighten bolts. Finish torquing bolts to 12-15 foot pounds. Hand tighten drain plug and put coolant back into radiator. Top off coolant and reinstall cap. Run engine until warm. Check and fill overflow bottle to full mark. Check for leaks.

THERMOSTAT TEST RESULTS: (CIRCLE ONE) **PASS** **FAIL**

YOUR RECOMMENDATIONS/PROBLEMS/ LEAKS FOUND: _____

(Should the thermostat be replaced? What about the gasket, housing, hose, or coolant?)

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	Initial	OVERALL SKILL EVALUATION	Points
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)		TOTAL SCORE	
INSTRUCTOR'S SIGNATURE: _____			

CS4R&IThermostat/ 07-17-08/vdb