

NATEF TASK SHEET --- SECTION A.8 E.2 1,2,3 P-1, P-2, P-2

Tune 11: Test Operation and Determine Needs of EGR System
Is the Exhaust Gas Re-circulation System working correctly?

Student: _____ **Date:** _____ **Period:** _____

VIN: _____ **Year:** ____ **Make:** _____ **Model:** _____

Engine: _____ **Transmission:** _____ **Production Date:** _____

Objective: Student will test operation of EGR system and determine what is needed to bring system up to factory specifications.

- Materials:**
1. **EYE PROTECTION**
 2. Hand held vacuum pump with gage.
 3. Test directions and vacuum diagram from "Mitchell on Demand"
 4. Vehicle (see instructor)

Procedure: **WEAR EYE PROTECTION!** Print out EGR test procedure and vacuum diagram from All-Data or Mitchell-On-Demand. Locate EGR valve, hoses, thermal vacuum valve(s) and solenoid(s) in EGR system. Warm up vehicle, disconnect vacuum hose from EGR valve and hook up hand-held vacuum pump to EGR valve. Slowly pump up vacuum and note vacuum reading on gage when idle starts to become erratic. Write down EGR "opening" vacuum below. Next, hook up vacuum gage to vacuum supply hose to EGR valve and increase warm engine RPM to 2500. Note vacuum reading below. Is there enough vacuum to open EGR valve? Answer below. What does this vehicle need to work correctly?

Fill out all blank fields in table below:

Item/Area Tested:	Visual Inspection	Functional Test
EGR Valve		Pass / Fail
EGR Valve Opening Vacuum	N-A	_____ (Inches of Vacuum)
Vacuum supply to EGR Valve	Pass / Fail	_____ (Inches of Vacuum)
Inspection of Vacuum Hoses		Pass / Fail
Inspection of Vacuum Valves		Pass / Fail
Is there enough vacuum to open EGR valve?		Yes / No
Overall System Evaluation	Needs: _____	
Notes/Problems Encountered:	_____	

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: _____