

## NATEF TASK SHEET --- SECTION A.8, C.7 P-1

### **TUNE9: ADJUSTING IGNITION TIMING**

*Is your spark getting there at the right time?*

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

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

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

**OBJECTIVE:** Student will check and adjust ignition timing to factory specifications.

- MATERIALS:**
1. **EYE PROTECTION**
  2. Hand Tools
  3. Timing Light & RPM meter
  4. Running Vehicle (see instructor)

**PROCEDURE:** **WEAR EYE PROTECTION!** WATCH POWER POINT/VIDEO TUNE9. Look up and print timing adjustment procedure in All-Data or Mitchell-on-Demand. Attach to back of task sheet. Locate emission control label under hood. Follow manufacturer's procedure for adjusting ignition timing. Loosen distributor mounting bolt(s) just enough to allow distributor to move with some resistance. Hook up timing light to #1 spark plug wire and battery. Hook up RPM meter. Start engine and check if idle speed is correct to set timing. Adjust timing to factory specifications and tighten distributor mounting bolt(s). Recheck timing. Reconnect any vacuum hoses or electrical connectors that were disconnected. Document before and after adjustment readings.

	Degrees BTDC	@ RPM
<b>Factory Specifications</b>		
<b>Timing Before Adjustment</b>		
<b>Timing After Adjustment</b>		

**RECOMMENDATIONS/PROBLEMS:**

**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)		<b>TOTAL SCORE</b>	
<b>INSTRUCTOR'S SIGNATURE:</b>			

**TUNE9 ADJUSTIGNITIONTIMING /07-29-08/ vdb**