

# EP-LAB 19

## NATEF TASK A8/F2, P1, A8/A15, P1

### EP-LAB 19: Remove & Install timing belt; verify correct camshaft timing *Is the timing belt on right?*

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

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

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

**Objective:** Student will remove and install timing belt; verify correct camshaft timing.

- Materials:**
1. **EYE PROTECTION**
  2. Hand Tools
  3. Mitchell-On-Demand / All-Data
  4. Fender Covers
  5. Vehicle (see instructor)

**Procedure:** **WEAR EYE PROTECTION!** Use fender covers, seat covers, and floor mats. Locate in the OEM service information (All-Data), the procedure for removing and replacing the engine timing belt and checking valve timing. Submit this procedure to your instructor for approval and staple it to the back of this task sheet. Your instructor **MUST** initial before proceeding with this job sheet.

**X** \_\_\_\_\_  
INSTRUCTOR'S INITIALS

<b><i>Does the belt need to be replaced?</i></b> <b><i>Circle One YES NO</i></b>	<b><i>Does this engine have an overhead or an in-block camshaft?</i></b>
<b><i>Are there additional parts that need to be replaced to repair the vehicle right?</i></b> <b><i>Recommendations:</i></b> _____	<b><i>How many camshafts does this engine have?</i></b>
<b><i>What would make this job easier?</i></b> _____	<b><i>How many sprockets does the timing belt go around?</i></b>
<b><i>How do you adjust the timing belt tension?</i></b> _____	<b><i>How many of these sprockets have timing marks that need to be aligned?</i></b>

#### 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> _____			