[ ]  1. Check service information to determine the specified procedure and special tools needed to inspect and replace the timing chain(s), gears, actuators, guides, and tensioners. List the special tools needed:

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

Meets ASE Task: A1 – B-6 – P-1

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**VVT Inspect and Replace Timing Chain(s) and Gears**

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[ ]  2. Remove the engine front cover following the manufacturer’s procedures.

[ ]  3. Using the original crankshaft bolt, rotate the engine until the crankshaft gear is in the desired location.

[ ]  4. Verify the timing marks on the variable cam actuators are in the correct location.

 [ ]  5. Inspect the chain(s), gears, actuators, guides, and tensioners for wear.

 [ ]  6. Based on the inspection, what components need to be replaced?

[ ]  7. Install the replacement timing chain(s), gears, actuators, guides, and tensioners. Check that the timing marks align.

[ ]  8. Reassemble the front of the engine and torque all fasteners to factory specifications.

