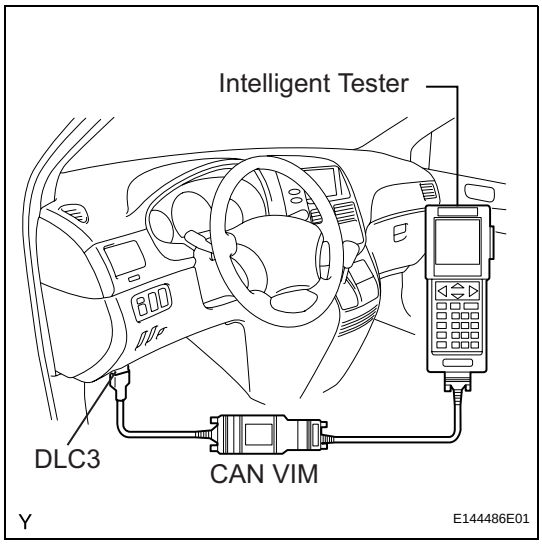


ON-VEHICLE INSPECTION

1. INSPECT CAMSHAFT TIMING CONTROL VALVE ASSEMBLY

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Start the engine and warm it up.
(d) Select the intelligent tester from the ACTIVE TEST menu.
(e) Check the engine speed when the OCV (camshaft timing oil control valve) is operated by the intelligent tester.

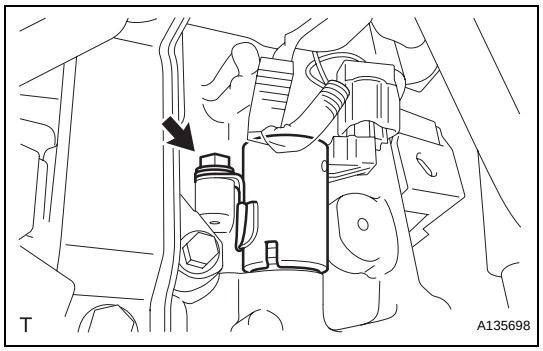
OK

Condition	Specified Condition
VVT system is OFF (OCV is OFF)	Normal engine speed
VVT system is ON (OCV is ON)	Rough idle or engine stalled

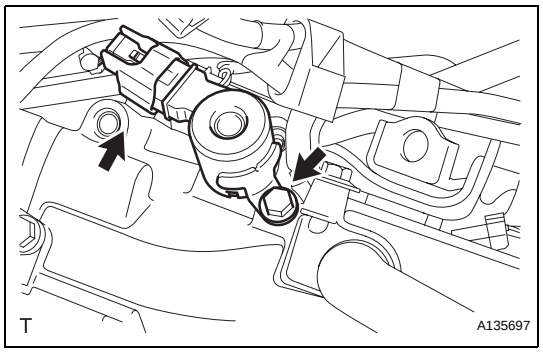
ES

REMOVAL

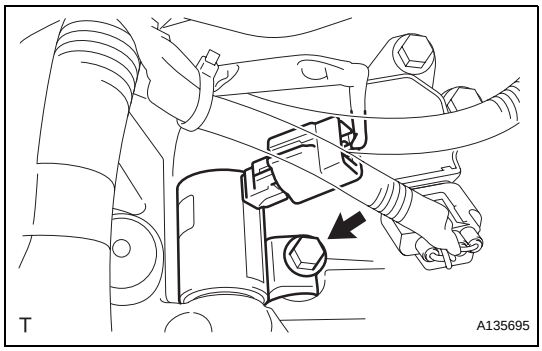
1. **REMOVE WINDSHIELD WIPER MOTOR ASSEMBLY**
   HINT:
   (See page WW-4)
2. **REMOVE FRONT OUTER COWL TOP PANEL SUB-ASSEMBLY (See page EM-27)**
3. **DRAIN ENGINE COOLANT (See page CO-6)**
4. **REMOVE V-BANK COVER SUB-ASSEMBLY (See page EM-28)**
5. **REMOVE NO. 2 AIR CLEANER INLET (See page EM-28)**
6. **REMOVE NO. 1 AIR CLEANER INLET (See page EM-28)**
7. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page ES-493)**
8. **REMOVE AIR CLEANER CASE SUB-ASSEMBLY (See page EM-28)**
9. **REMOVE INTAKE AIR SURGE TANK ASSEMBLY (See page ES-521)**
10. **REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 1 Exhaust Side)**
    (a) Disconnect the camshaft timing oil control valve assembly connector.
    (b) Remove the bolt and camshaft timing oil control valve assembly.
    (c) Remove the O-ring from the camshaft timing oil control valve.



11. **REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 1 Intake Side)**
    (a) Disconnect the camshaft timing oil control valve assembly connector.
    (b) Remove the bolt and camshaft timing oil control valve assembly.
    (c) Remove the O-ring from the camshaft timing oil control valve.

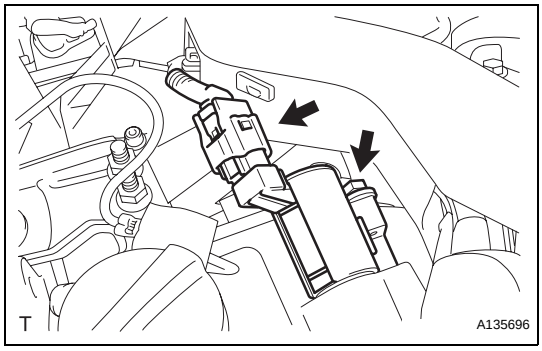


ES



12. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 2 Exhaust Side)

(a) Disconnect the camshaft timing oil control valve assembly connector.
(b) Remove the bolt and camshaft timing oil control valve assembly.
(c) Remove the O-ring from the camshaft timing oil control valve.



13. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 2 Intake Side)

(a) Disconnect the camshaft timing oil control valve assembly connector.
(b) Remove the bolt and camshaft timing oil control valve assembly.
(c) Remove the O-ring from the camshaft timing oil control valve.

ES