INSPECTION

1. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY

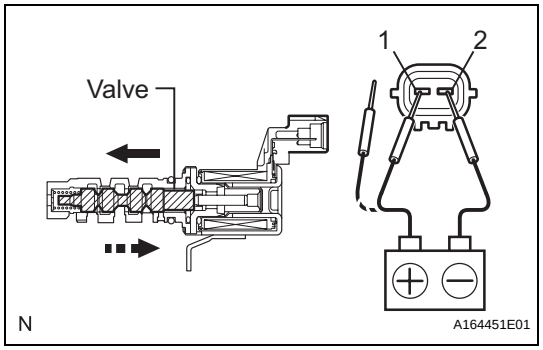
(a) Resistance inspection

(1) Using an ohmmeter, measure the resistance between the terminals.

Resistance:

6.9 to 7.9 Ω at 20°C (68°F)

If necessary, replace the camshaft timing oil control valve assembly.



(b) Movement inspection

(1) Connect the positive (+) lead from the battery to terminal 1 and connect the negative (-) lead to terminal 2, and check the movement of the valve.

NOTICE:

Confirm that the valve moves freely and does not stick in any position.

If necessary, replace the camshaft timing oil control valve assembly.

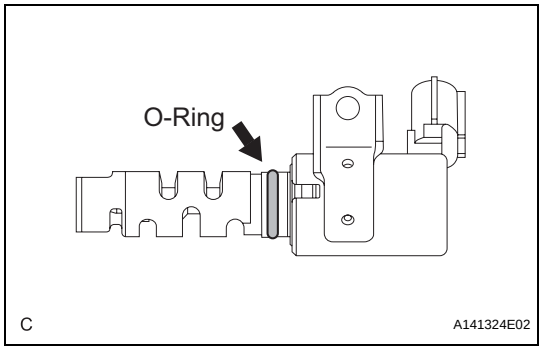
HINT:

Accumulation of foreign objects causes subtle pressure leaks. The subtle pressure leaks will cause the cam to advance, and this will cause a DTC to be set.

INSTALLATION

1. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 2 Exhaust Side)

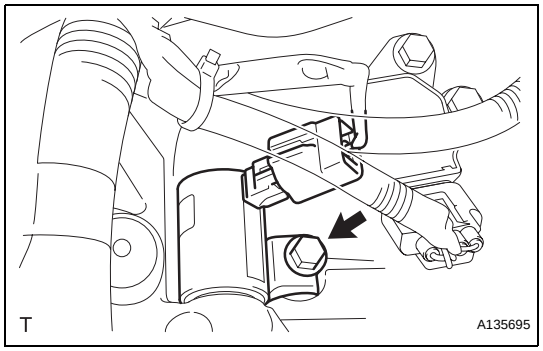
(a) Apply a light coat of engine oil to the new O-ring and install it to the camshaft timing oil control valve.

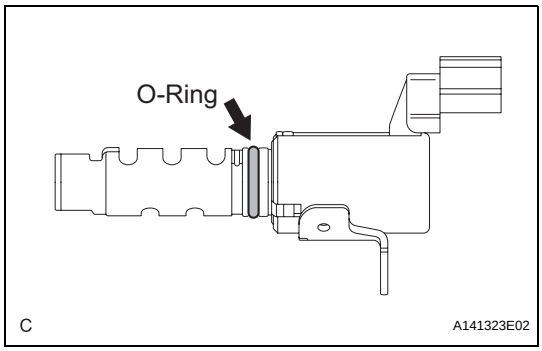


(b) Install the camshaft timing oil control valve assembly with the bolt.

Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

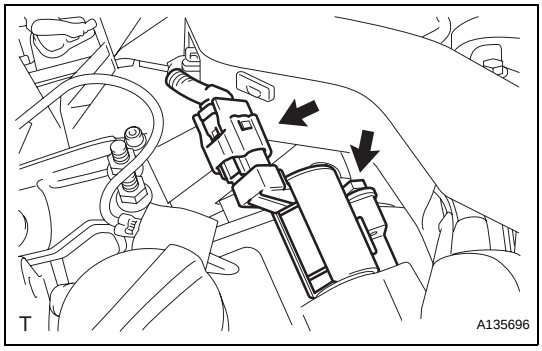
(c) Connect the camshaft timing oil control valve assembly connector.



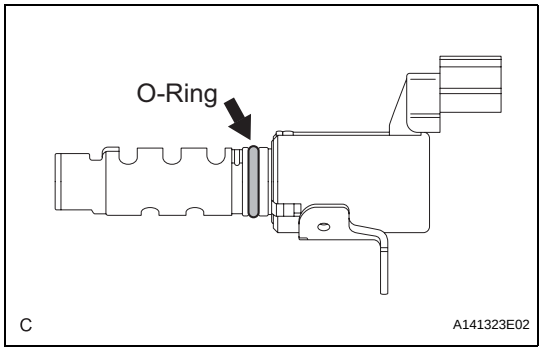


2. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 2 Intake Side)

(a) Apply a light coat of engine oil to the new O-ring and install it to the camshaft timing oil control valve.

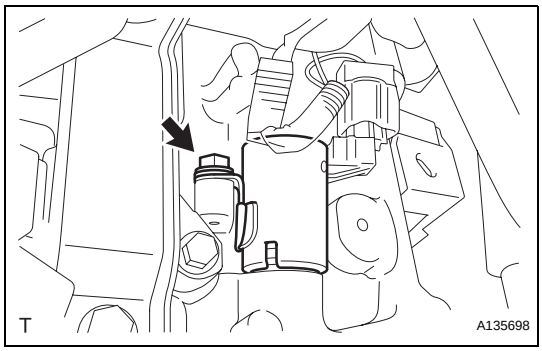


(b) Install the camshaft timing oil control valve assembly with the bolt.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)
Connect the camshaft timing oil control valve assembly connector.



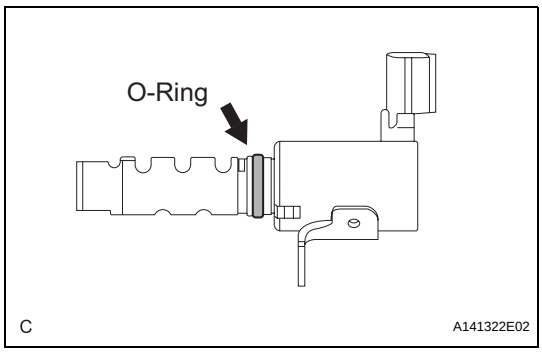
3. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 1 Exhaust Side)

(a) Apply a light coat of engine oil to the new O-ring and install it to the camshaft timing oil control valve.



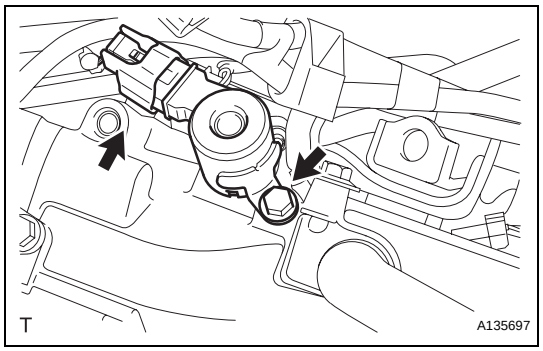
(b) Install the camshaft timing oil control valve assembly with the bolt.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

(c) Connect the camshaft timing oil control valve assembly connector.



4. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (for Bank 1 Intake Side)

(a) Apply a light coat of engine oil to the new O-ring and install it to the camshaft timing oil control valve.



(b) Install the camshaft timing oil control valve assembly with the bolt.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)
(c) Connect the camshaft timing oil control valve assembly connector.

5. **INSTALL INTAKE AIR SURGE TANK ASSEMBLY (See page ES-522)**
6. **INSTALL AIR CLEANER CASE SUB-ASSEMBLY (See page EM-59)**
7. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page ES-496)**
8. **INSTALL NO. 1 AIR CLEANER INLET (See page EM-59)**
9. **INSTALL NO. 2 AIR CLEANER INLET (See page EM-60)**
10. **ADD ENGINE COOLANT (See page CO-7)**
11. **INSPECT FOR ENGINE COOLANT LEAK (See page CO-1)**
12. **INSPECT FOR ENGINE OIL LEAK (See page LU-6)**
13. **INSTALL V-BANK COVER SUB-ASSEMBLY (See page EM-63)**
14. **INSTALL FRONT OUTER COWL TOP PANEL SUB-ASSEMBLY (See page EM-61)**
15. **INSTALL WINDSHIELD WIPER MOTOR ASSEMBLY**
HINT:
(See page WW-5)