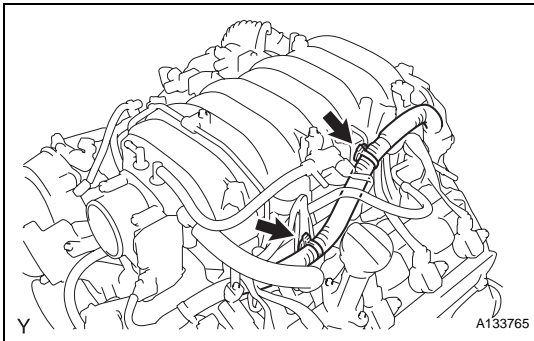
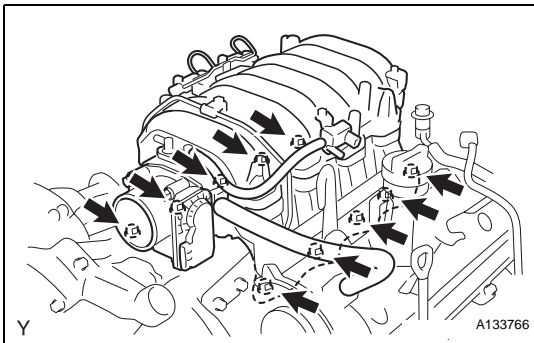


- (c) Remove the bolt and nut holding the engine wire protector from the intake manifold and cylinder head.
- (d) Remove the 2 bolts and ground cables from the RH and LH cylinder heads.
- (e) Remove the bolt and V-bank cover bracket from the intake manifold.

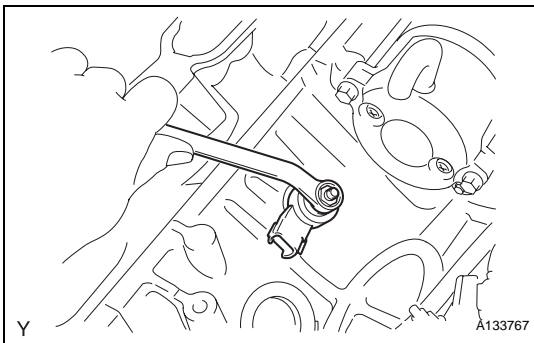


- (f) Disconnect the engine wire from the engine hanger and wire bracket.



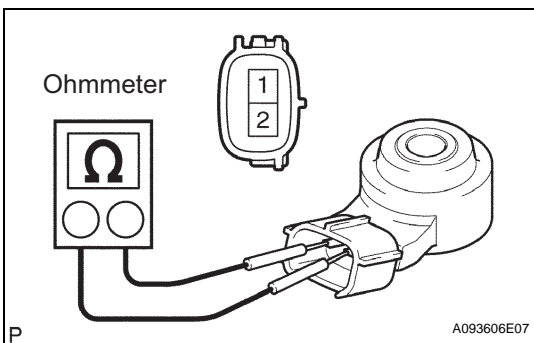
- (g) Remove the bolt and wire bracket from the intake manifold.
- (h) Remove the 6 bolts, 4 nuts, intake manifold assembly and 2 gaskets.

10. REMOVE AIR PUMP ASSEMBLY W/ BRACKET (See page EC-11)



11. REMOVE KNOCK SENSOR

- (a) Disconnect the 2 knock sensor connectors.
- (b) Remove the 2 nuts and 2 knock sensors.



INSPECTION

1. INSPECT KNOCK SENSOR

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

Resistance

Tester Connection	Specified Condition
1 (Ground) - 2 (Output)	120 to 280 kΩ at 20°C (68°F)

If the result is not as specified, replace the knock sensor.

INSTALLATION

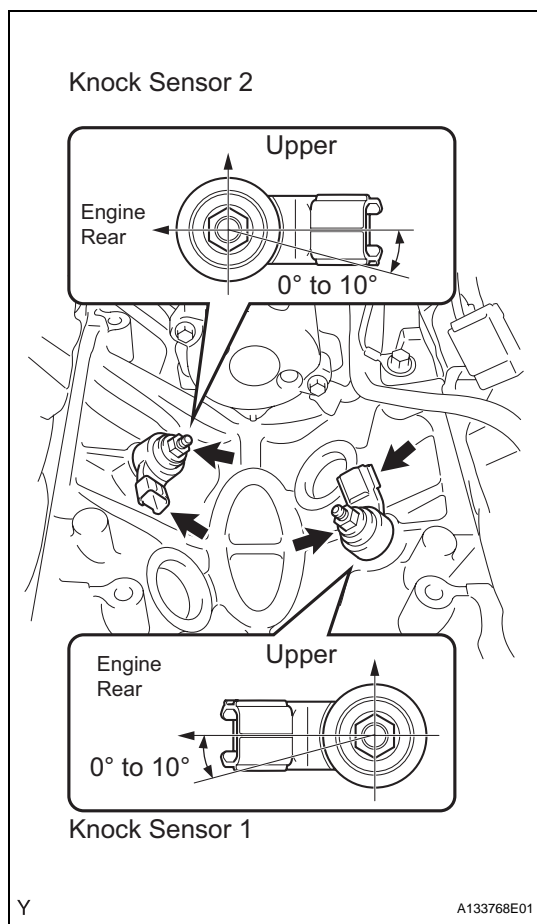
1. INSTALL KNOCK SENSOR

- (a) Install the 2 knock sensors with the 2 nuts as shown in the illustration.

Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)

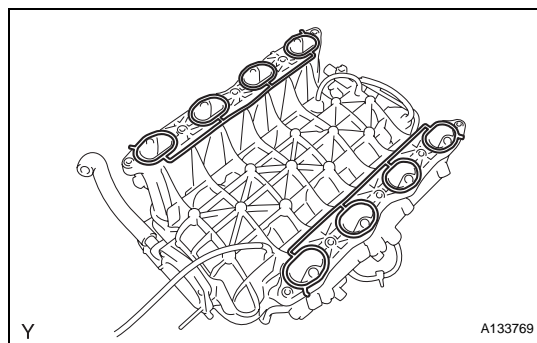
- (b) Connect the 2 knock sensor connectors.

2. INSTALL AIR PUMP ASSEMBLY W/ BRACKET (See page [EC-12](#))



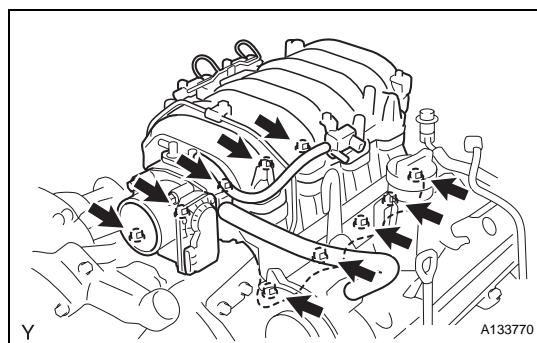
3. INSTALL INTAKE MANIFOLD

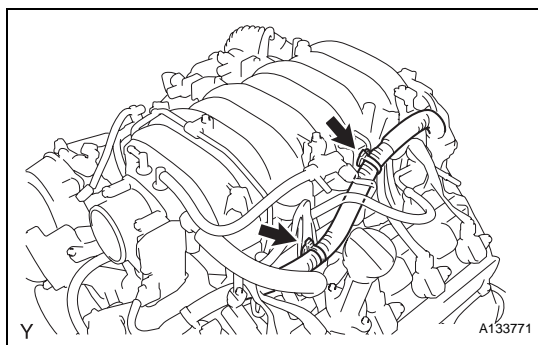
- (a) Place 2 new gaskets on the intake manifold.



- (b) Place the intake manifold on the cylinder heads.
- (c) Install and uniformly tighten the 6 bolts and 4 nuts in several steps.

Torque: 18 N*m (185 kgf*cm, 13 ft.*lbf)





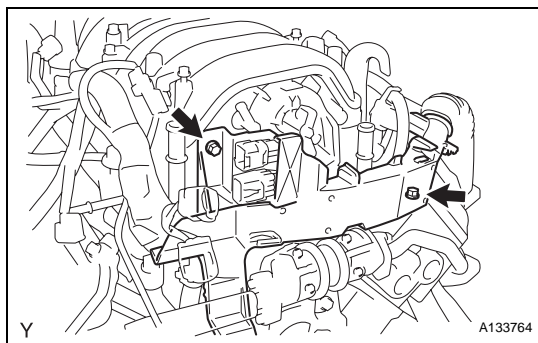
- (d) Install the V-bank cover bracket to the intake manifold.

Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)

- (e) Install the wire bracket to the intake manifold with the bolt.

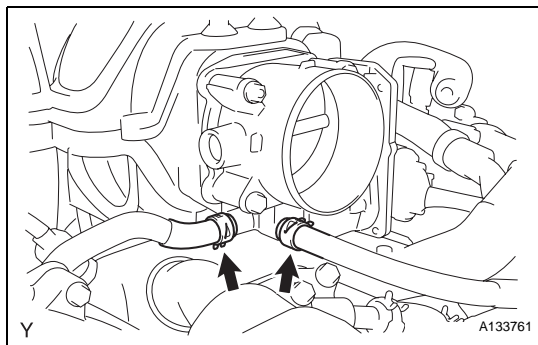
Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)

- (f) Connect the engine wire to the engine hanger and wire bracket.

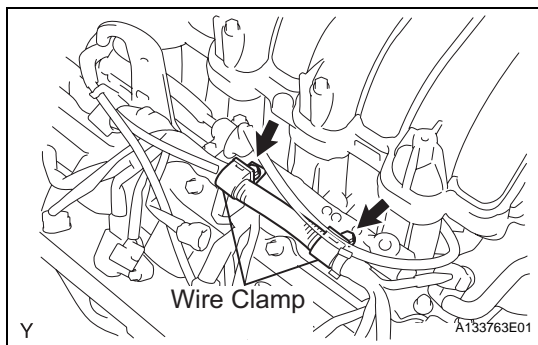


- (g) Connect the wire protector to the intake manifold and cylinder heads with the bolt and nut.

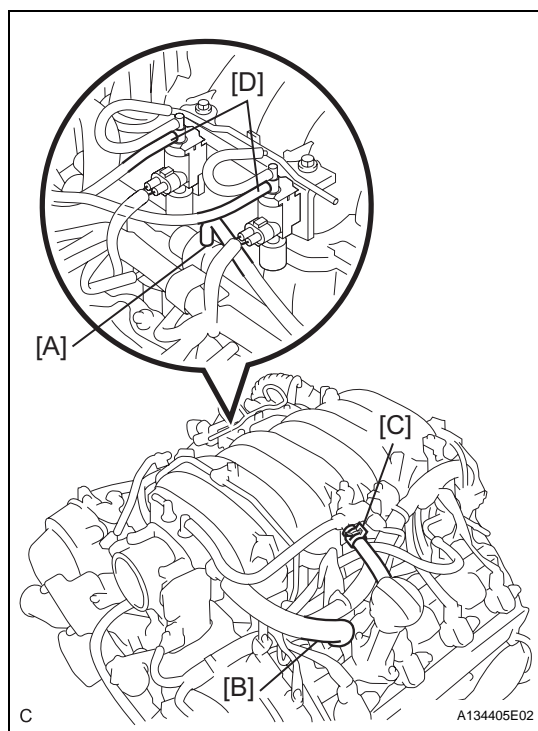
- (h) Install the 2 ground cables with the 2 bolts to the RH and LH cylinder heads.

ES

- (i) Connect the 2 water by-pass hoses to the throttle body.



- (j) Connect the 2 wire clamps to the wire clamp bracket on the RH delivery pipe.



4. CONNECT HOSES FORM INTAKE MANIFOLD

- Connect the vacuum hose [A] to the fuel pressure regulator.
- Connect the PCV hose [B] to the PCV valve on the LH cylinder head.
- Connect the EVAP hose (from the charcoal canister) [C] to the VSV for EVAP.
- Connect the 2 vacuum hoses [D] to the VSV for the air injection system.

5. CONNECT CONNECTORS FROM INTAKE MANIFOLD

- Connect the throttle control connector.
- Connect the 2 VSV connectors for the air injection system.
- Connect the VSV connector for the EVAP.
- Connect the 8 injector connectors.
- Connect the ECT sensor connector.
- Connect the 8 ignition coil connectors.
- Connect the 2 air fuel ratio sensor connectors.

6. INSTALL FUEL HOSE NO.2

7. INSTALL FUEL HOSE (See page [FU-13](#))

8. INSTALL THROTTLE BODY COVER SUB-ASSEMBLY Torque: 7.5 N*m (80 kgf*cm, 66 in.*lbf)

9. ADD ENGINE COOLANT (See page [CO-3](#))

10. CHECK FOR ENGINE COOLANT LEAKS (See page [CO-4](#))

11. CHECK FOR FUEL LEAKS (See page [FU-5](#))