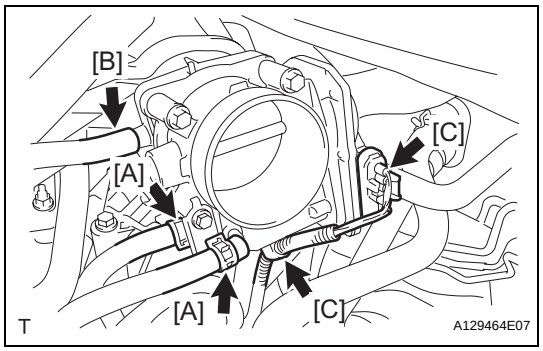
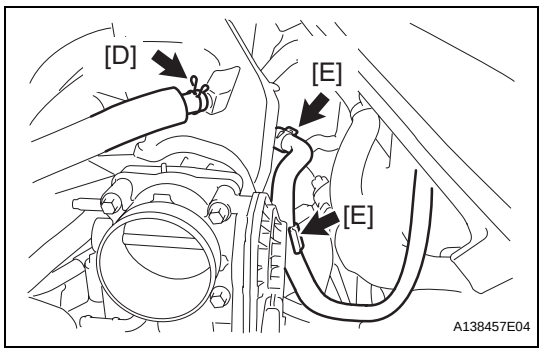
REMOVAL

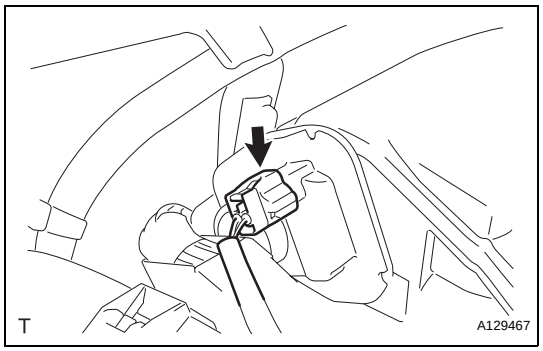
1. **DISCHARGE FUEL SYSTEM PRESSURE**
   (See page FU-13)
2. **REMOVE V-BANK COVER SUB-ASSEMBLY (See page EM-28)**
3. **DRAIN ENGINE COOLANT (See page CO-6)**
4. **REMOVE WINDSHIELD WIPER MOTOR ASSEMBLY**
   HINT:
   (See page WW-4)
5. **REMOVE FRONT OUTER COWL TOP PANEL SUB-ASSEMBLY (See page EM-27)**
6. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page ES-493)**
7. **REMOVE AIR CLEANER CASE SUB-ASSEMBLY (See page EM-28)**
8. **REMOVE INTAKE AIR SURGE TANK ASSEMBLY**
   (a) Disconnect the 2 water by-pass hoses from the throttle body [A].
   (b) Disconnect the vapor feed hose [B].
   (c) Disconnect the throttle body connector and clamp [C].

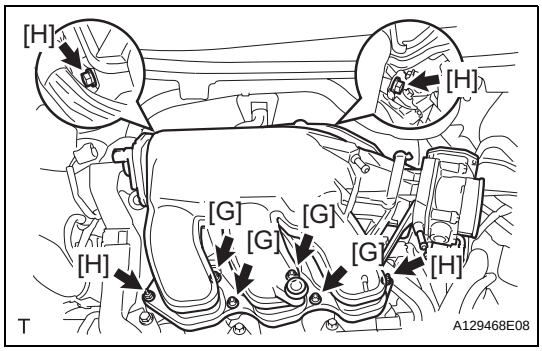


   (d) Disconnect the ventilation hose [D].
   (e) Disconnect the union to check valve hose [E].



   (f) Disconnect the connector [F].

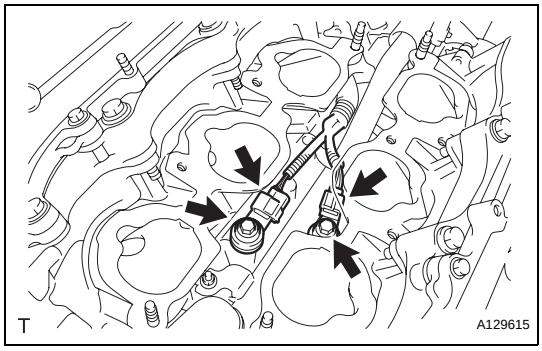




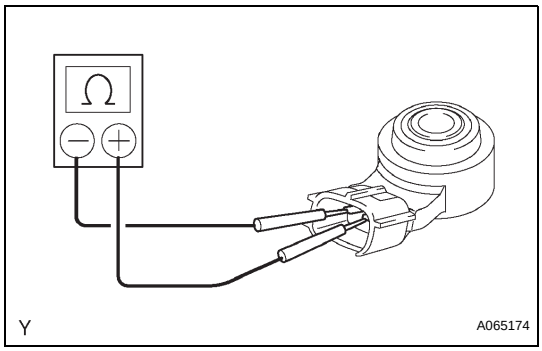
(g) Using a 5 mm socket hexagon wrench, remove the 4 bolts [G].
(h) Remove the 2 nuts, 2 bolts and intake air surge tank [H].
(i) Remove the gasket from the intake air surge tank [I].

9. REMOVE FUEL MAIN TUBE SUB-ASSEMBLY (See page EM-30)

10. REMOVE INTAKE MANIFOLD (See page EM-39)

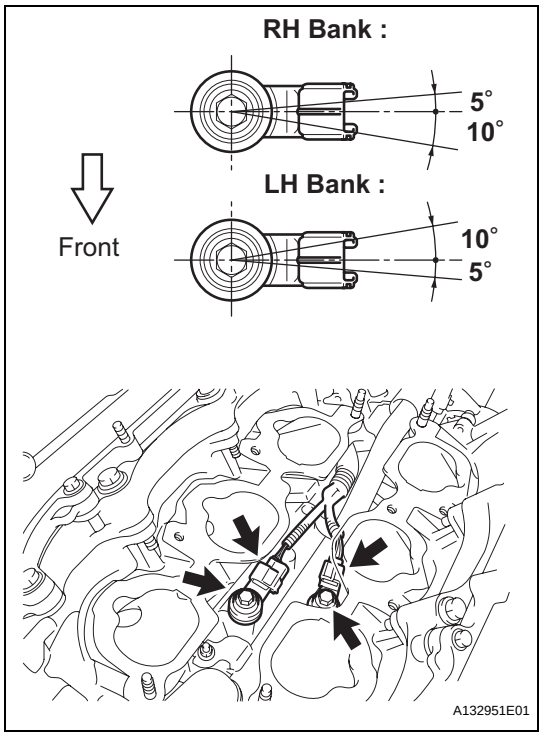


11. REMOVE KNOCK CONTROL SENSOR
(a) Disconnect the 2 knock sensor connectors.
(b) Remove the 2 bolts and then remove the 2 knock control sensors.



INSPECTION

1. KNOCK CONTROL SENSOR
(a) Using an ohmmeter, measure the resistance between the terminals.
Resistance:
120 to 280 kΩ at 20°C (68°F)
If the resistance is not specified, replace the knock control sensor.



INSTALLATION

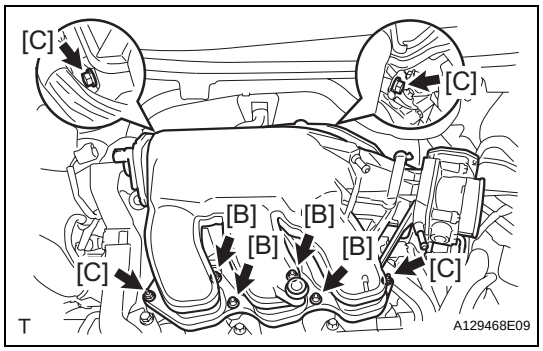
1. INSTALL KNOCK CONTROL SENSOR
(a) Install the 2 knock control sensors with the 2 bolts as shown in the illustration.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)
(b) Connect the 2 knock control sensor connectors.

2. INSTALL INTAKE MANIFOLD (See page EM-49)

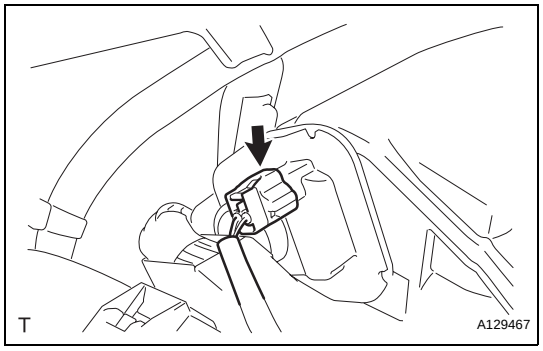
3. INSTALL FUEL MAIN TUBE SUB-ASSEMBLY (See page EM-56)

4. INSTALL INTAKE AIR SURGE TANK
NOTICE:
DO NOT apply oil to the bolts listed below.

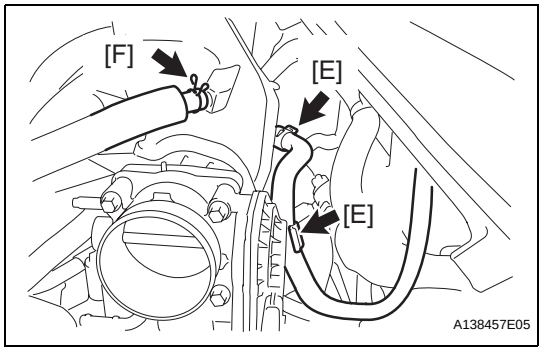
Tightening Parts	Torque N*m (kgf*cm, ft.*lbf)	QTY
Surge Tank and Intake Manifold	18 (184, 13)	4
No. 1 Surge Tank Stay and Surge Tank	21 (214, 15)	1
Throttle Body Bracket and Surge Tank	21 (214, 15)	1



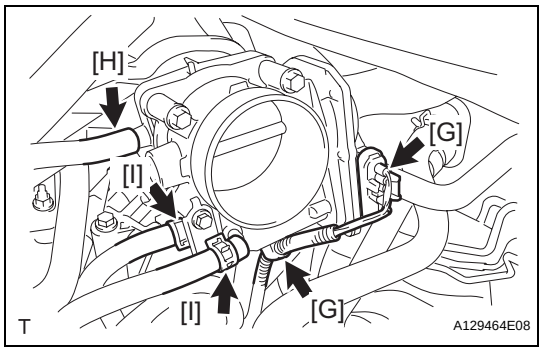
(a) Install a new gasket to the intake air surge tank [A].
(b) Using a 5 mm hexagon socket wrench, install the 4 bolts [B].
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)
(c) Install the intake air surge tank with the 2 nuts and 2 bolts [C].
Torque: Nut
16 N*m (163 kgf*cm, 12 ft.*lbf)
Bolt
21 N*m (214 kgf*cm, 15 ft.*lbf)



(d) Connect the connector [D].



(e) Connect the union to check valve hose [E].
(f) Connect the ventilation hose No. 2 [F].



(g) Install the clamp and connect the throttle with motor body assembly connector [G].
(h) Connect the vapor feed hose [H].
(i) Connect the 2 water by-pass hoses to the throttle with motor body assembly [I].

5. **INSTALL AIR CLEANER CASE SUB-ASSEMBLY (See page EM-59)**
6. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page ES-496)**
7. **ADD ENGINE COOLANT (See page CO-7)**
8. **INSPECT FOR ENGINE COOLANT LEAK (See page CO-1)**
9. **INSPECT FOR FUEL LEAK (See page FU-7)**
10. **INSTALL FRONT OUTER COWL TOP PANEL SUB-ASSEMBLY (See page EM-61)**
11. **INSTALL WINDSHIELD WIPER MOTOR ASSEMBLY**
HINT:
(See page WW-5)

ES

12. **INSTALL V-BANK COVER SUB-ASSEMBLY (See page EM-63)**