TOYOTA SERVICE BULLETIN

Group: 03 No.: 06 Date: May, 14

Aurion

Corrections to Repair Manual RM02N2EQ

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
Please see the attached list on page 2.		

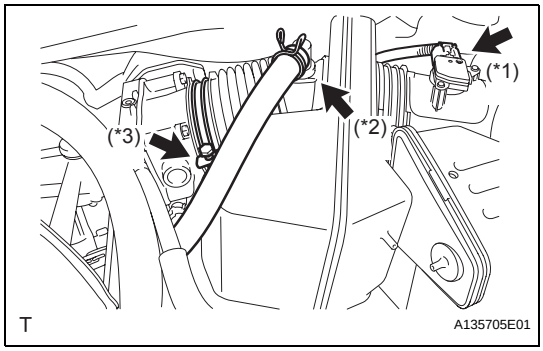
The revised pages listed above are attached.
(The corrected parts are indicated by arrows.)

This Bulletin does not cause the Flat Rate Manual to be changed.

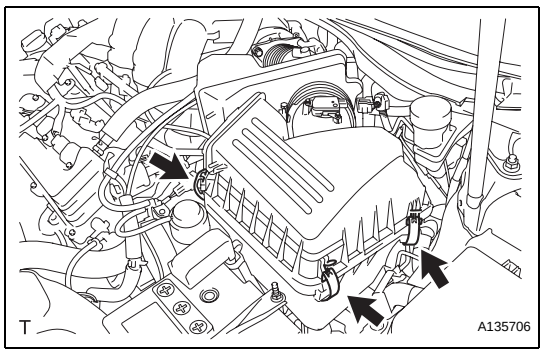
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Section	Title	Paragraph
2GR-FE ENGINE CONTROL SYSTEM	THROTTLE BODY	REMOVAL (2006/10-2009/06)
		REMOVAL (2009/06-)
		INSTALLATION (2006/10-2009/06)
		INSTALLATION (2009/06-)
2GR-FE ENGINE MECHANICAL	ENGINE ASSEMBLY	COMPONENTS
		REMOVAL (2006/10-2009/06)
		REMOVAL (2009/06-)
		INSTALLATION (2006/10-2009/06)
		INSTALLATION (2009/06-)
2GR-FE FUEL	FUEL INJECTOR	REMOVAL (2006/10-2009/06)
		REMOVAL (2009/06-)
		INSTALLATION (2006/10-2009/06)
		INSTALLATION (2009/06-)
2GR-FE IGNITION	IGNITION COIL	COMPONENTS

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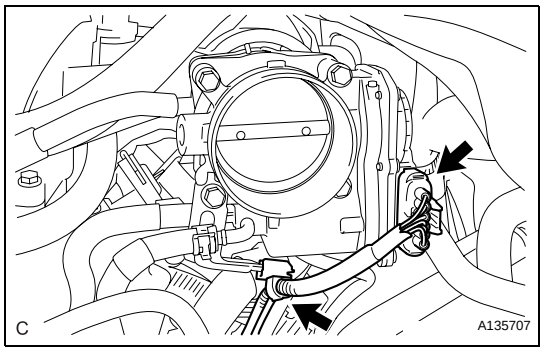
(b) Disconnect the mass air flow meter connector (*1).
(c) Disconnect the No. 2 ventilation hose (*2).
(d) Disconnect the hose band (*3).



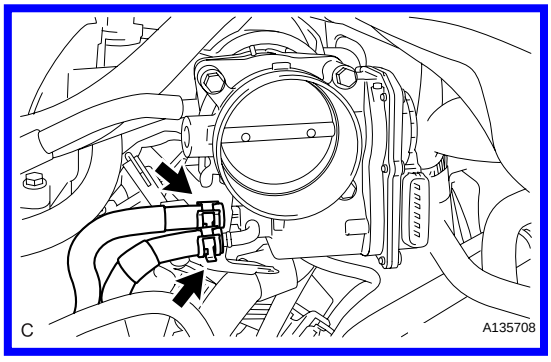
(e) Disconnect the 3 bands, and remove the air cleaner cap sub-assembly.

8. **REMOVE AIR CLEANER CASE SUB-ASSEMBLY (See page)**

9. **REMOVE NO. 1 AIR CLEANER INLET (See page)**

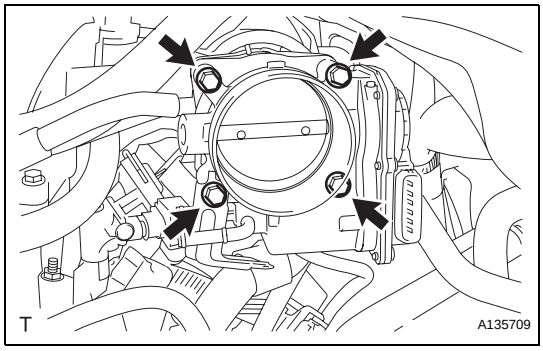


10. **REMOVE THROTTLE BODY**
(a) Disconnect the throttle body connector and clamp.



(b) Disconnect the 2 water by-pass hoses from the throttle body.

[Corrected]



(c) Remove the 4 bolts and throttle body.
(d) Remove the throttle body gasket from the intake air surge tank.

REMOVAL

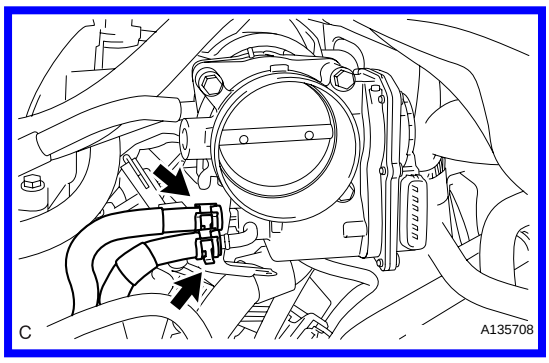
(2009/06-)

1. **REMOVE ENGINE UNDER COVER RH**

2. **REMOVE ENGINE UNDER COVER LH**

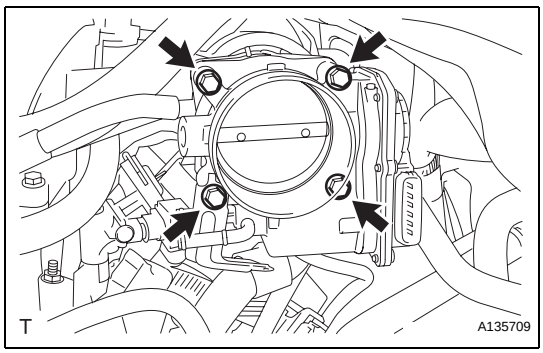
3. **DRAIN ENGINE COOLANT (See page)**

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(b) Disconnect the 2 water by-pass hoses from the throttle body.

[Corrected]

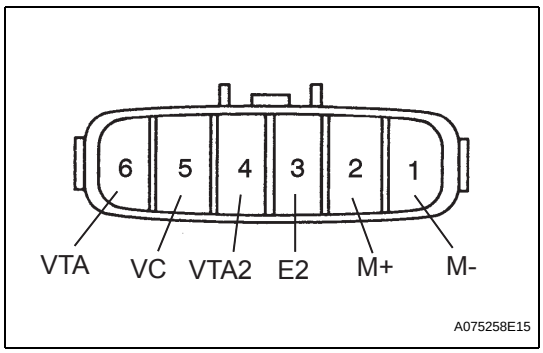


(c) Remove the 4 bolts and throttle body.
(d) Remove the throttle body gasket from the intake air surge tank.

INSPECTION

1. INSPECT THROTTLE BODY ASSEMBLY

(a) Measure the resistance between the terminals.
Standard resistance



Tester Connection	Condition	Specified Condition
2 (M+) - 1 (M-)	20°C (68°F)	0.3 to 100 Ω
5 (VC) - 3 (E2)	20°C (68°F)	1.2 to 3.2 kΩ

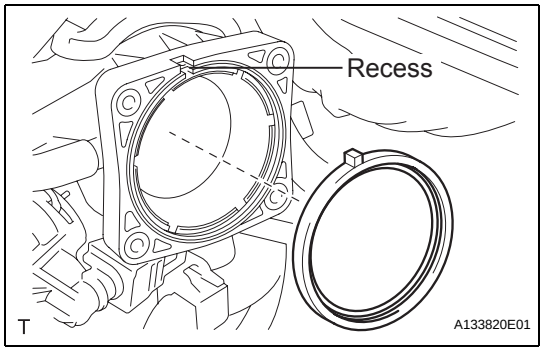
If the result is not as specified, replace the throttle body assembly.

INSTALLATION

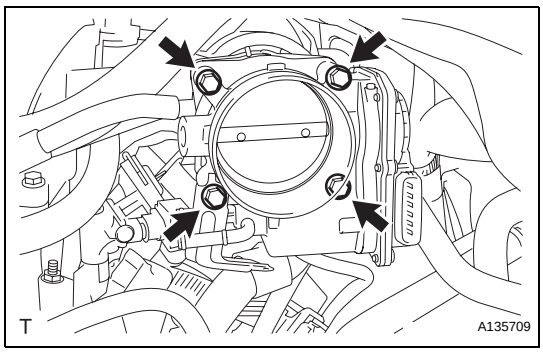
(2006/10-2009/06)

1. INSTALL THROTTLE BODY

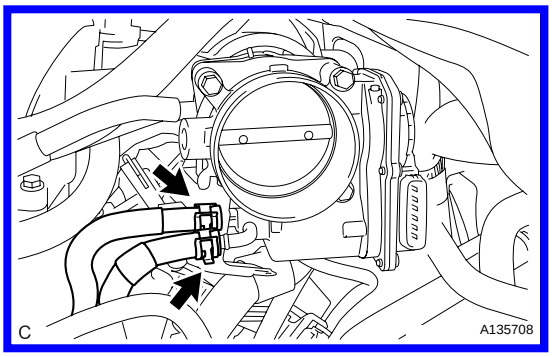
(a) Install a new throttle body gasket to the intake air surge tank.



(b) Install the throttle body with the 4 bolts.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

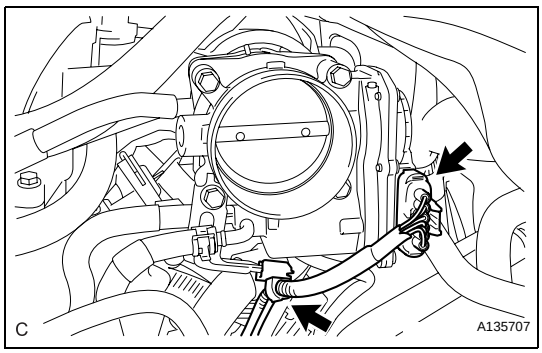


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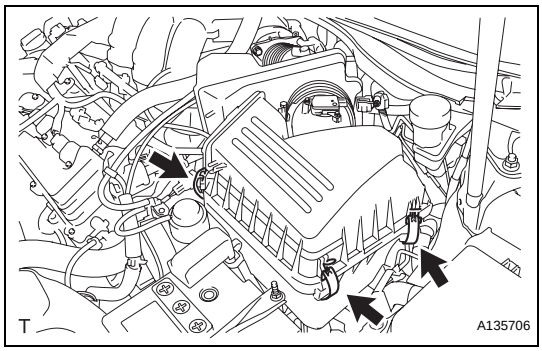
(c) Connect the 2 water by-pass hoses.

[Corrected]

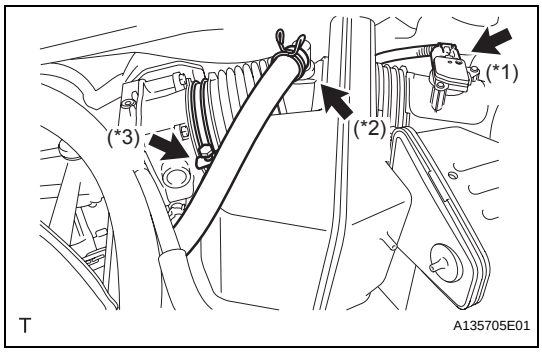


(d) Connect the throttle body connector and clamp.

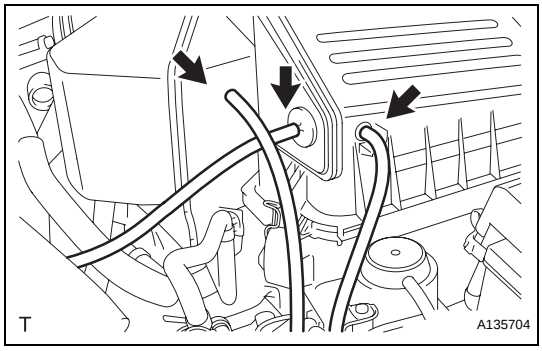
2. **INSTALL NO. 1 AIR CLEANER INLET (See page)**
3. **INSTALL AIR CLEANER CASE SUB-ASSEMBLY (See page)**



4. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY**
   (a) Install the air cleaner cap sub-assembly, and connect the 3 bands.



(b) Connect the mass air flow meter connector (*1).
(c) Connect the No. 2 ventilation hose (*2).
(d) Connect the hose band (*3).



(e) Connect the 3 vacuum hoses.

5. **INSTALL AIR CLEANER INLET ASSEMBLY (See page)**
6. **INSTALL COOL AIR INTAKE DUCT SEAL (See page)**
7. **ADD ENGINE COOLANT (See page)**
8. **INSPECT FOR COOLANT LEAK (See page)**
9. **CHECK FUNCTION OF THROTTLE BODY (See page ES-2)**

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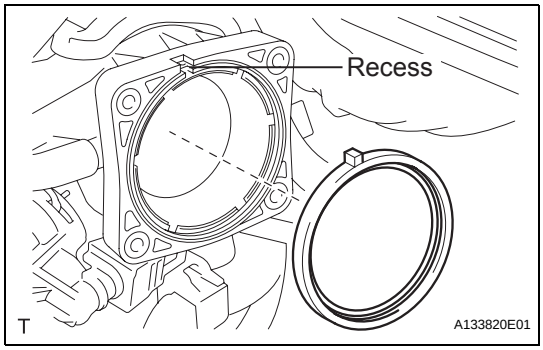
10. INSTALL V-BANK COVER SUB-ASSEMBLY (See page)

INSTALLATION

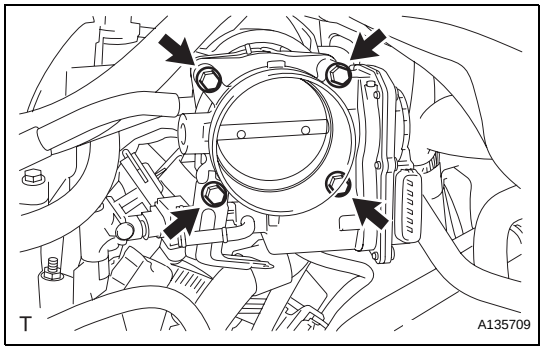
(2009/06-)

1. INSTALL THROTTLE BODY

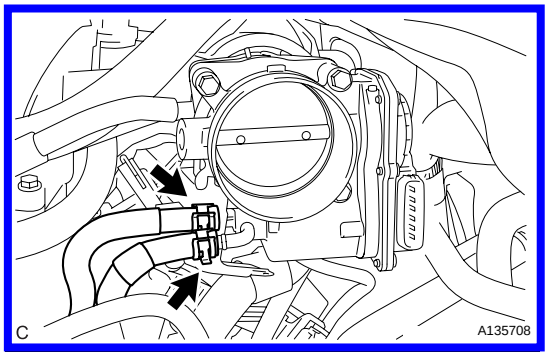
(a) Install a new throttle body gasket to the intake air surge tank.



(b) Install the throttle body with the 4 bolts.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

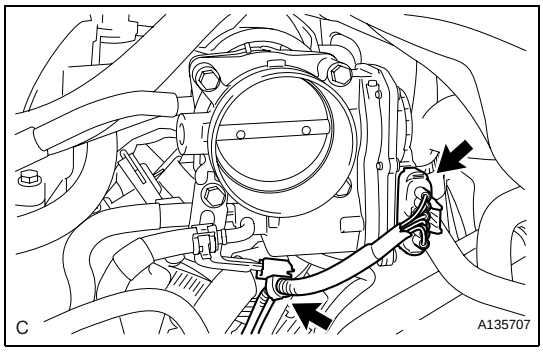


(c) Connect the 2 water by-pass hoses.



[Corrected]

(d) Connect the throttle body connector and clamp.

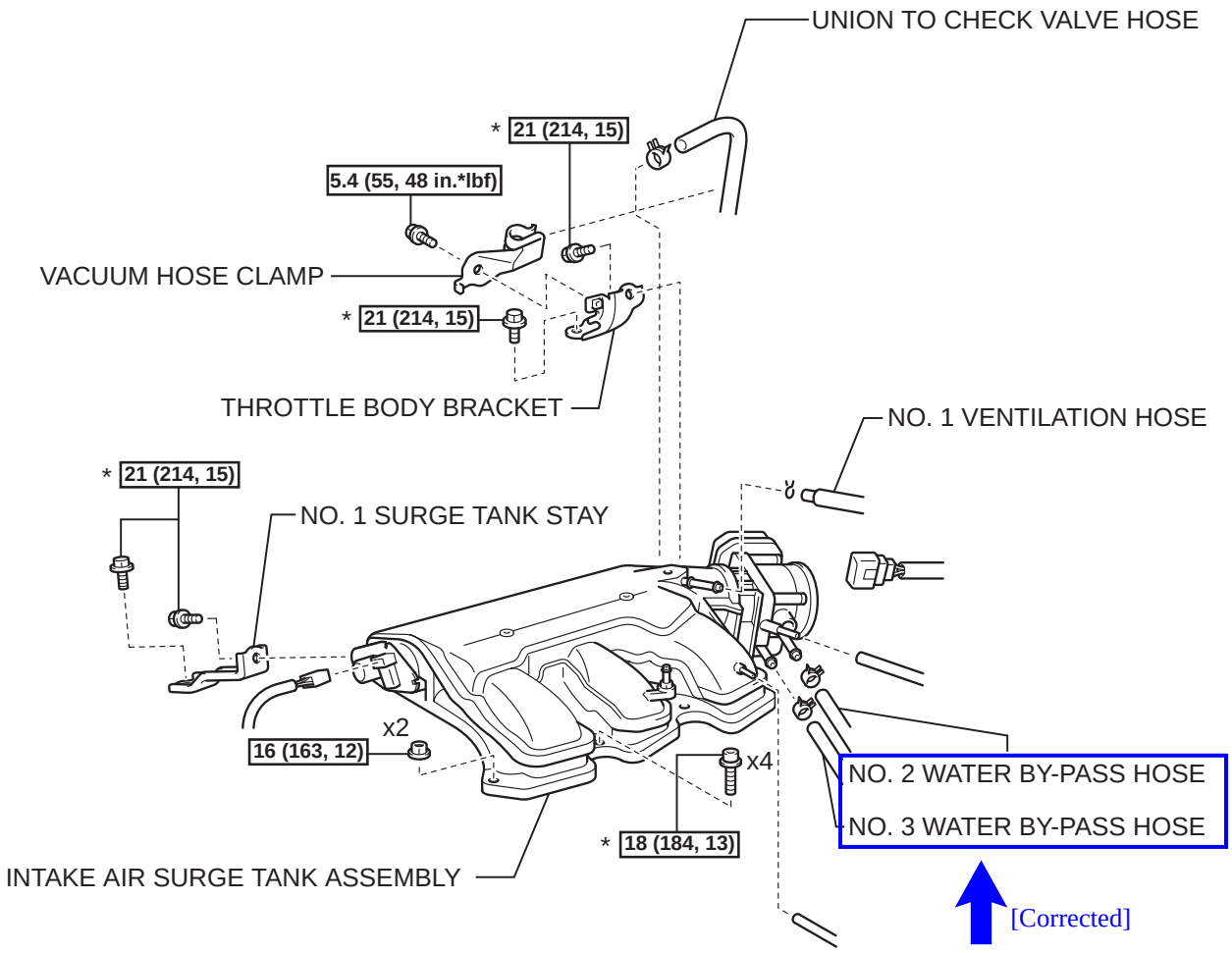


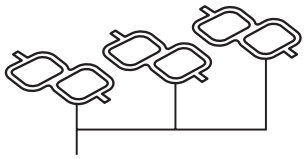
2. INSTALL NO. 1 AIR CLEANER INLET (See page)

3. INSTALL AIR CLEANER CASE SUB-ASSEMBLY (See page)

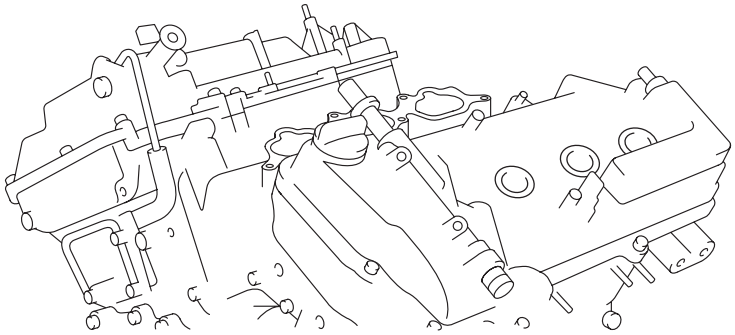
ES

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● AIR SURGE TANK TO INTAKE MANIFOLD GASKET



N*m (kgf*cm, ft.*lbf): Specified torque

● Non-reusable part

* DO NOT apply oil

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66. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY

HINT:

See page ○○-○○.

67. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (See page)

68. SECURE ENGINE

(a) Secure the engine onto an engine stand with the bolts.

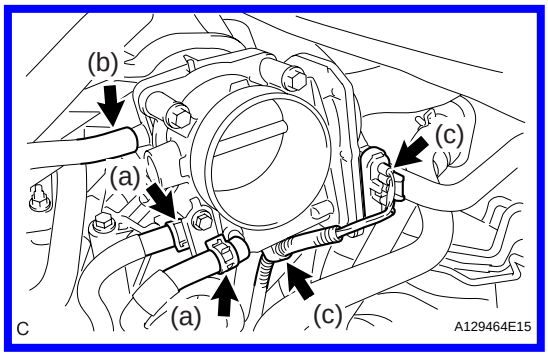
69. REMOVE INTAKE AIR SURGE TANK ASSEMBLY

(a) Disconnect the 2 water by-pass hoses from the throttle with motor body assembly.

(b) Disconnect the vapor feed hose.

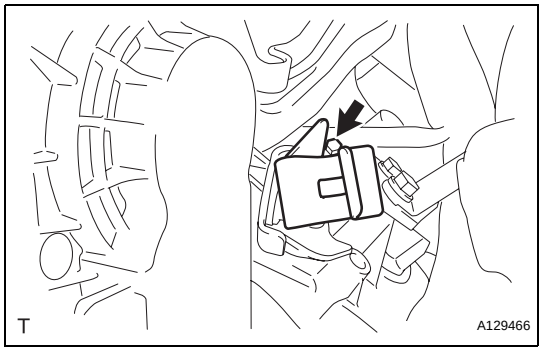
(c) Disconnect the throttle with motor body assembly connector and clamp.

(d) Disconnect the No. 1 ventilation hose.



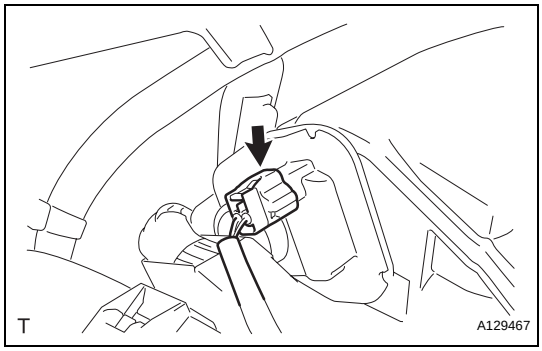
[Corrected]

(e) Remove the bolt and vacuum hose clamp.



(f) Disconnect the connector.

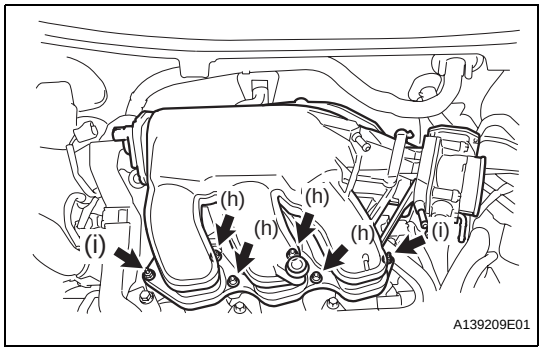
(g) Remove the 4 bolts, No. 1 surge tank stay and throttle body bracket.



(h) Using a 5 mm socket hexagon wrench, remove the 4 bolts.

(i) Remove the 2 nuts and intake air surge tank.

(j) Remove the gasket from the intake air surge tank.



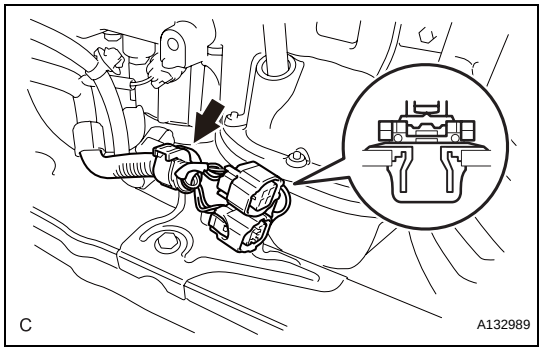
70. REMOVE IGNITION COIL ASSEMBLY

(a) Remove the 6 bolts and 6 ignition coils.

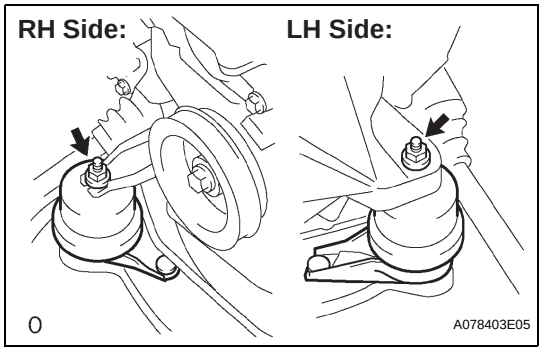
71. REMOVE NO. 2 A ENGINE MOUNTING STAY RH

(a) Remove the bolt and No. 2 A engine mounting stay RH.

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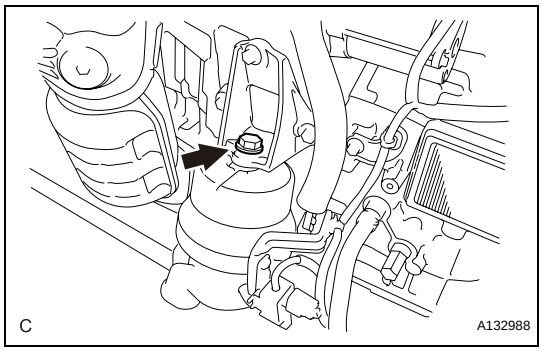


(b) Disconnect the 2 clamps.



(c) Remove the 2 nuts and disconnect the engine mounting insulators RH and LH.

(d) Disconnect the vacuum hose clamps from the resonator.



(e) Remove the bolt and disconnect the engine mounting insulator FR.

62. REMOVE FRONT DRIVE SHAFT ASSEMBLY LH (See page)

63. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH (See page)

64. REMOVE ENGINE WIRE

65. REMOVE STARTER ASSEMBLY (See page)

66. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY

HINT:

See page ○○-○○.

67. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (See page)

68. SECURE ENGINE

(a) Secure the engine onto an engine stand with the bolts.

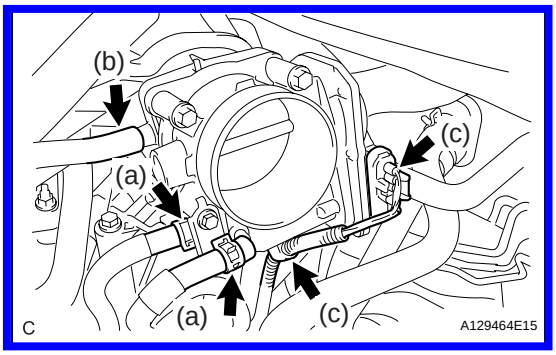
69. REMOVE INTAKE AIR SURGE TANK ASSEMBLY

(a) Disconnect the 2 water by-pass hoses from the throttle with motor body assembly.

(b) Disconnect the vapor feed hose.

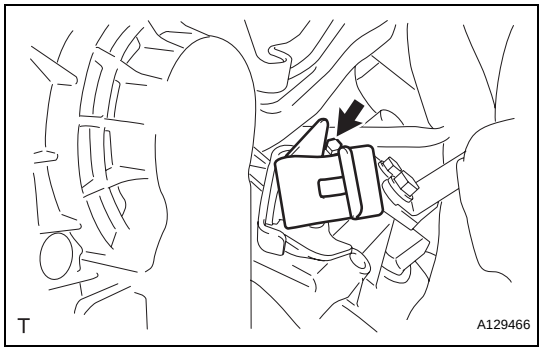
(c) Disconnect the throttle with motor body assembly connector and clamp.

(d) Disconnect the No. 1 ventilation hose.

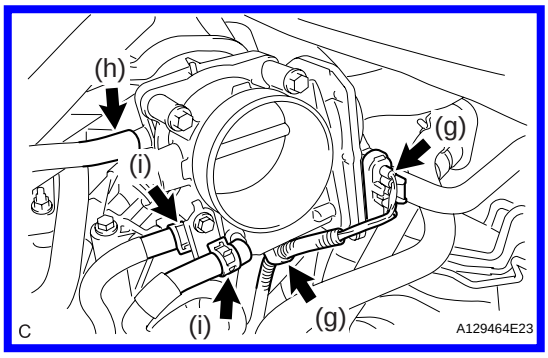


[Corrected]

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(e) Install the vacuum hose clamp with the bolt.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)
(f) Connect the No. 1 ventilation hose.



[Corrected]

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

EM

22. REMOVE ENGINE STAND

23. INSTALL DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (See page)

24. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY
HINT:
See page ○○-○○.

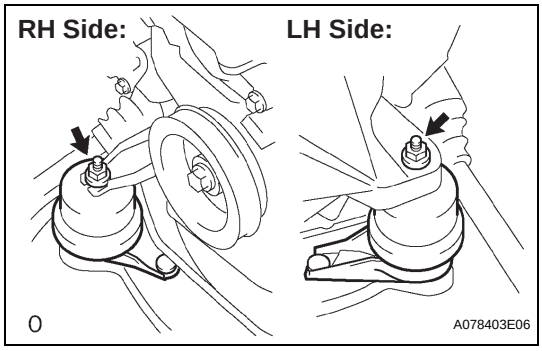
25. INSTALL STARTER ASSEMBLY (See page)

26. INSTALL ENGINE WIRE

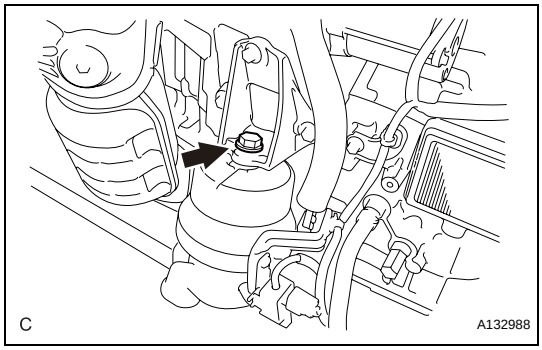
27. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH (See page)

28. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (See page)

29. INSTALL FRONT FRAME ASSEMBLY

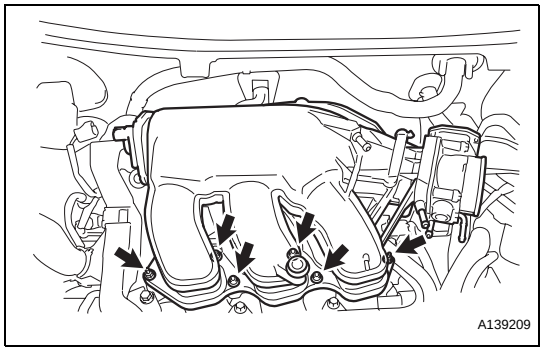


(a) Install the engine mounting insulators RH and LH with the 2 nuts.
Torque: 95 N*m (969 kgf*cm, 70 ft.*lbf)



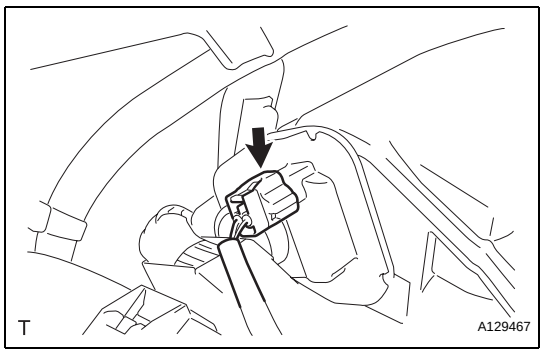
(b) Install the engine mounting insulator FR with the bolt.
Torque: 87 N*m (887 kgf*cm, 64 ft.*lbf)

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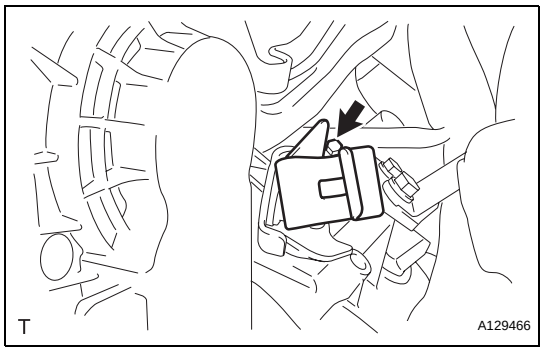


(b) Using a 5 mm hexagon socket wrench, install the 4 bolts and 2 nuts.
Torque: Bolt
18 N*m (184 kgf*cm, 13 ft.*lbf)
Nut
16 N*m (163 kgf*cm, 12 ft.*lbf)

(c) Install the throttle body bracket and No. 1 surge tank stay with the 4 bolts.
Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf)

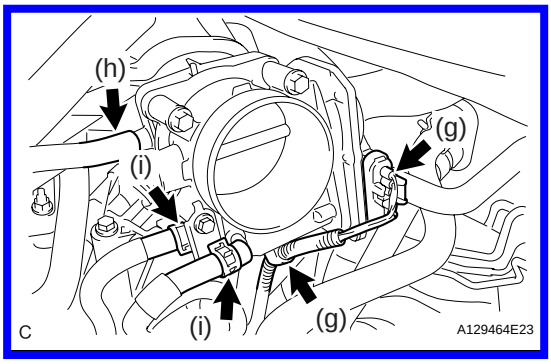


(d) Connect the connector.



(e) Install the vacuum hose clamp with the bolt.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

(f) Connect the No. 1 ventilation hose.



[Corrected]

(g) Install the clamp and connect the throttle with motor body assembly connector.

(h) Connect the vapor feed hose.

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

22. REMOVE ENGINE STAND

23. INSTALL DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (See page)

24. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY
HINT:
See page ○○-○○.

25. INSTALL STARTER ASSEMBLY (See page)

26. INSTALL ENGINE WIRE

27. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH (See page)

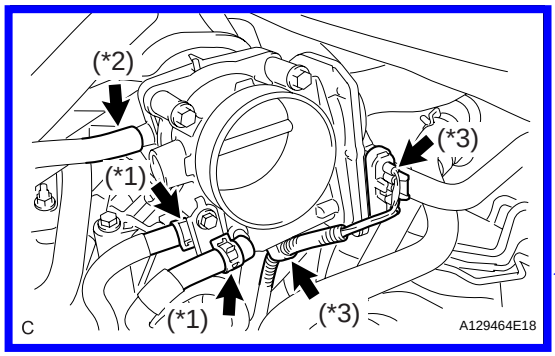
28. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (See page)

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REMOVAL

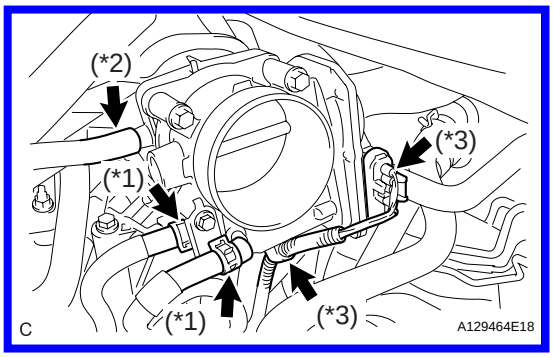
(2006/10-2009/06)

1. **DISCHARGE FUEL SYSTEM PRESSURE**
   HINT:
   See page ○○-○○.
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
3. **DRAIN ENGINE COOLANT (See page)**
4. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH (See page)**
5. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH (See page)**
6. **REMOVE FRONT FENDER TO COWL SIDE SEAL LH (See page)**
7. **REMOVE FRONT FENDER TO COWL SIDE SEAL RH (See page)**
8. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for LHD) (See page)**
9. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for RHD) (See page)**
10. **REMOVE WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY (See page)**
11. **REMOVE COWL TOP OUTER FRONT PANEL SUB-ASSEMBLY (See page)**
12. **REMOVE V-BANK COVER SUB-ASSEMBLY (See page)**
13. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page)**
14. **REMOVE INTAKE AIR SURGE TANK ASSEMBLY**
    (a) Disconnect the 2 water by-pass hoses from the throttle with motor body assembly. (*1)
    (b) Disconnect the vapor feed hose. (*2)
    (c) Disconnect the throttle with motor body assembly connector and clamp. (*3)



[Corrected]

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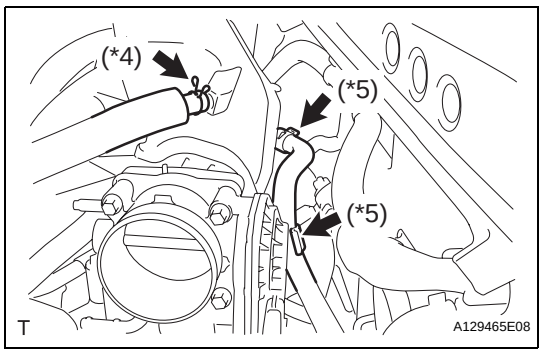
14. REMOVE INTAKE AIR SURGE TANK ASSEMBLY

(a) Disconnect the 2 water by-pass hoses from the throttle with motor body assembly. (*1)

(b) Disconnect the vapor feed hose. (*2)

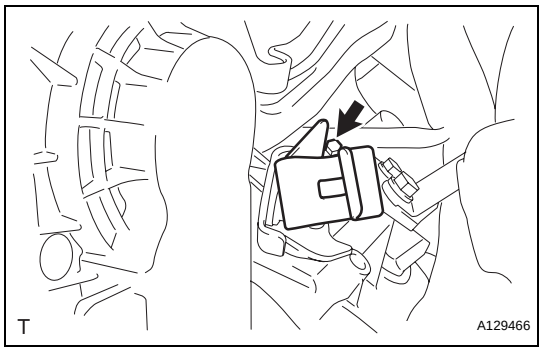
(c) Disconnect the throttle with motor body assembly connector and clamp. (*3)

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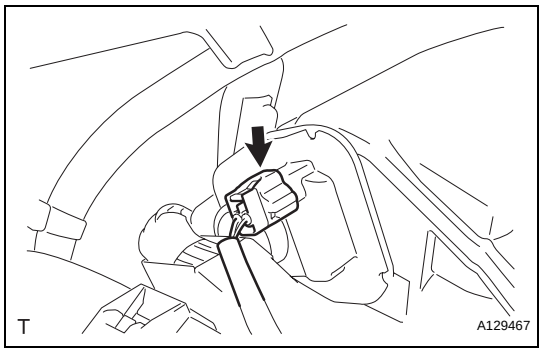


(d) Disconnect the No. 1 ventilation hose. (*4)

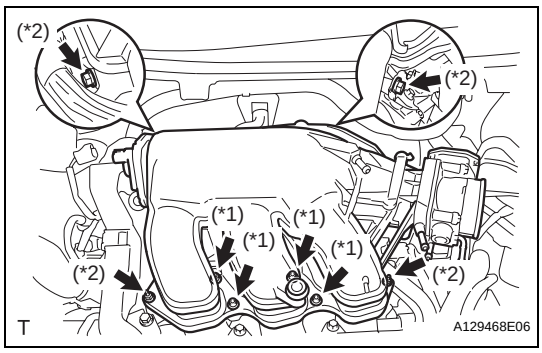
(e) Disconnect the union to check valve hose. (*5)



(f) Remove the bolt and vacuum hose clamp.



(g) Disconnect the connector.



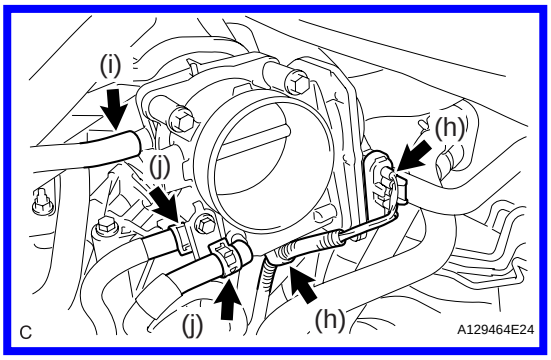
(h) Using a 5 mm hexagon socket wrench, remove the 4 bolts. (*1)

(i) Remove the 2 nuts, 2 bolts and intake air surge tank. (*2)

(j) Remove the gasket from the intake air surge tank.

FU

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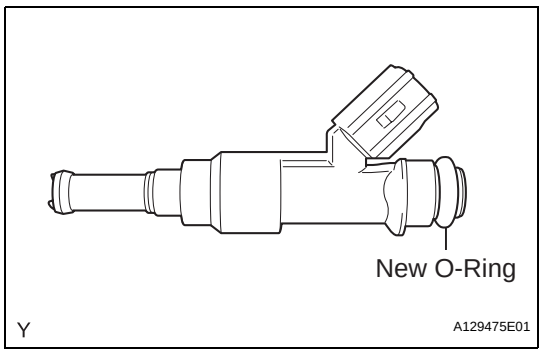
(h) Install the clamp and connect the throttle with motor body assembly connector.
(i) Connect the vapor feed hose.
(j) Connect the 2 water by-pass hoses to the throttle with motor body assembly.

4. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page)**
5. **ADD ENGINE COOLANT (See page)**
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **INSPECT FOR ENGINE COOLANT LEAK (See page)**
8. **INSPECT FOR FUEL LEAK**
   HINT:
   See page ○○-○○.
9. **INSTALL COWL TOP OUTER FRONT PANEL SUB-ASSEMBLY (See page)**
10. **INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY (See page)**
11. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for LHD) (See page)**
12. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for RHD) (See page)**
13. **INSTALL FRONT FENDER TO COWL SIDE SEAL RH (See page)**
14. **INSTALL FRONT FENDER TO COWL SIDE SEAL LH (See page)**
15. **INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH (See page)**
16. **INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH (See page)**
17. **INSTALL V-BANK COVER SUB-ASSEMBLY (See page)**

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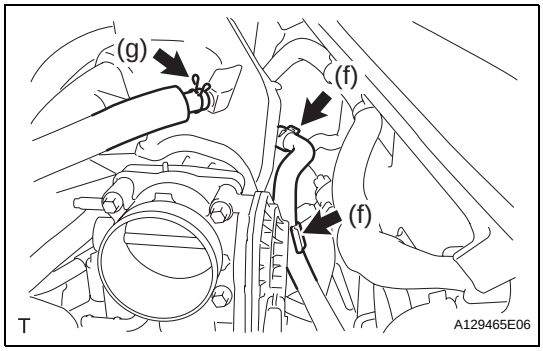
INSTALLATION

(2009/06-)

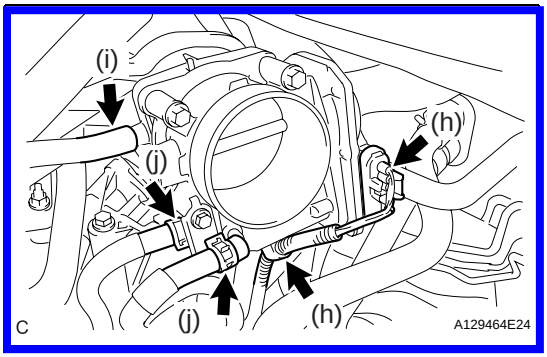


1. **INSTALL FUEL INJECTOR ASSEMBLY**
   (a) Apply a light coat of spindle oil or gasoline to new O-rings, and install them to each injector.

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(f) Connect the union to check valve hose.
(g) Connect the No. 1 ventilation hose.



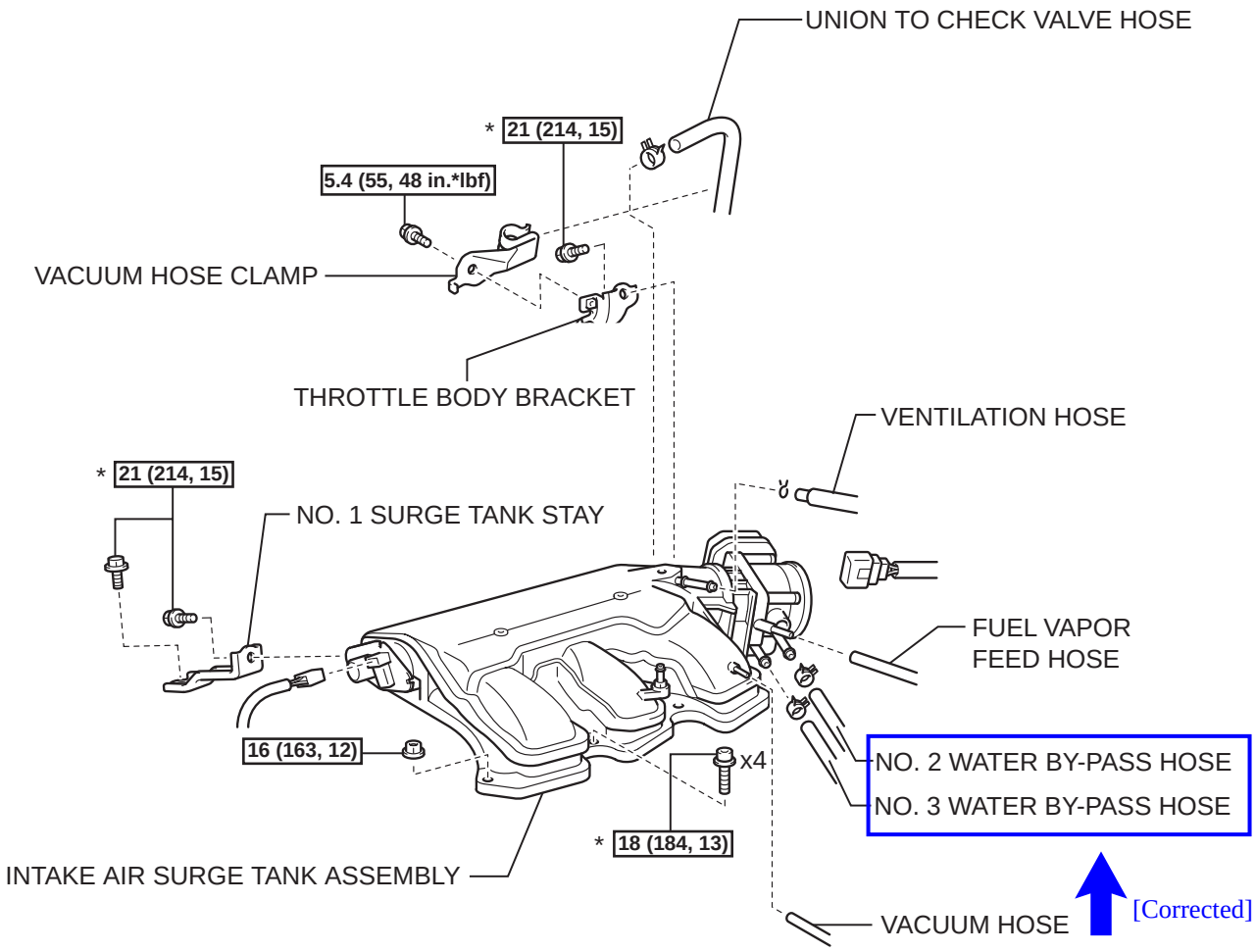
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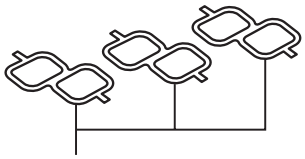
(h) Install the clamp and connect the throttle with motor body assembly connector.
(i) Connect the vapor feed hose.
(j) Connect the 2 water by-pass hoses to the throttle with motor body assembly.

4. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page)**
5. **ADD ENGINE COOLANT (See page)**
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **INSPECT FOR ENGINE COOLANT LEAK (See page)**
8. **INSPECT FOR FUEL LEAK**
   HINT:
   See page ○○-○○.
9. **INSTALL COWL TOP OUTER FRONT PANEL SUB-ASSEMBLY (See page)**
10. **INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY (See page)**
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17. **INSTALL V-BANK COVER SUB-ASSEMBLY (See page)**

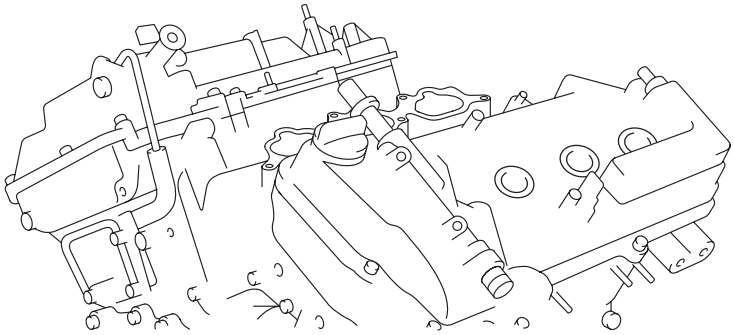
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● AIR SURGE TANK TO INTAKE MANIFOLD GASKET



N*m (kgf*cm, ft.*lbf): Specified torque

● Non-reusable part

* DO NOT apply oil

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