

INSTALLATION

1. INSTALL ENGINE OIL PRESSURE SWITCH ASSEMBLY

(See page [LU-1](#))

2. INSTALL FRONT NO. 1 ENGINE MOUNTING BRACKET RH

(a) Install the engine mounting bracket front No. 1 RH with the 4 bolts.

Torque: 51 N*m (520 kgf*cm, 38 ft.*lbf)

3. INSTALL EXHAUST MANIFOLD (See page [EM-72](#))

4. INSTALL AIR SWITCHING VALVE ASSEMBLY (See page [EC-16](#))

5. INSTALL NO. 1 EXHAUST MANIFOLD HEAT INSULATOR (See page [EC-16](#))

6. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY (See page [CO-6](#))

7. INSTALL NO. 1 IDLER PULLEY SUB-ASSEMBLY (See page [EM-33](#))

8. INSTALL GENERATOR ASSEMBLY (See page [CH-13](#))

9. INSTALL SPARK PLUG

Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)

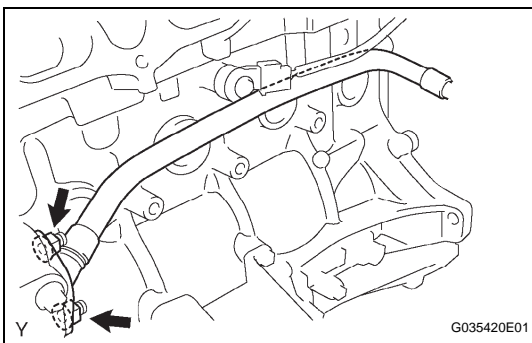
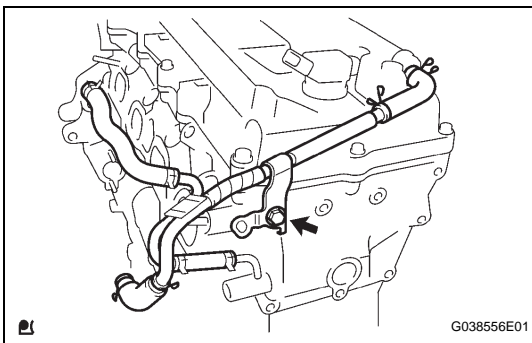
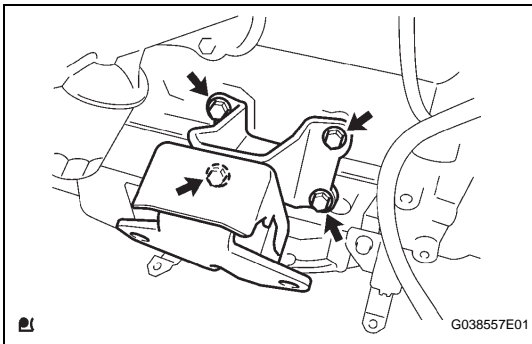
10. INSTALL IGNITION COIL ASSEMBLY

(See page [EM-69](#))

11. INSTALL VENTILATION PIPE

(a) Install the ventilation pipe with the bolt.

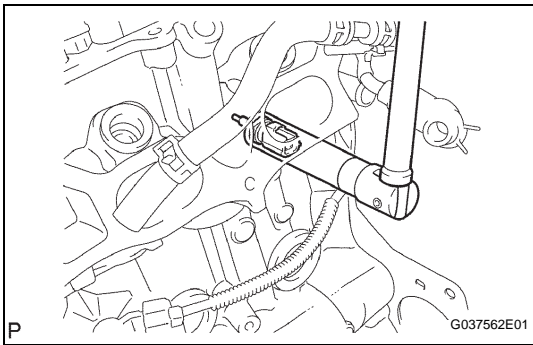
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)



12. INSTALL NO. 1 WATER BY-PASS PIPE

(a) Install a new gasket, then install the water by-pass pipe No. 1.

Torque: 18 N*m (178 kgf*cm, 13 ft.*lbf)



13. INSTALL ENGINE COOLANT TEMPERATURE SENSOR

- (a) Install a new gasket onto the engine coolant temperature sensor.
- (b) Using a 19 mm deep socket wrench, install the engine coolant temperature sensor.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)

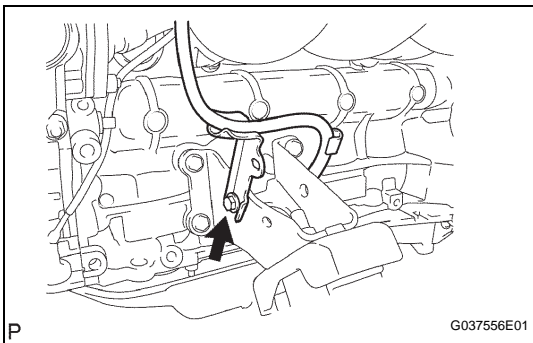
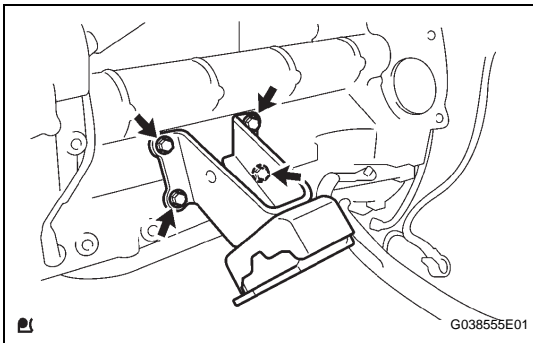
14. INSTALL KNOCK SENSOR (See page [ES-462](#))

15. INSTALL FUEL INJECTOR ASSEMBLY (See page [FU-15](#))

16. INSTALL THERMOSTAT (See page [CO-8](#))

17. INSTALL FRONT NO. 1 ENGINE MOUNTING BRACKET LH

- (a) Install engine mounting bracket front No. 1 LH with the 4 bolts.
Torque: 51 N*m (520 kgf*cm, 38 ft.*lbf)



18. INSTALL OIL LEVEL GAGE GUIDE

- (a) Install the oil level gage guide with the bolt.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)

19. INSTALL OIL LEVEL GAGE SUB-ASSEMBLY

20. INSTALL ENGINE WIRE

21. INSTALL IDLE PULLEY ASSEMBLY WITH BRACKET (w/ Air Conditioning System) (See page [ES-448](#))

22. INSTALL NO. 1 INTAKE MANIFOLD TO HEAD GASKET (See page [ES-463](#))

23. INSTALL THROTTLE WITH MOTOR BODY ASSEMBLY (See page [ES-454](#))

24. INSTALL NO. 2 FUEL HOSE (See page [FU-17](#))

25. INSTALL FUEL HOSE (See page [FU-17](#))

26. INSTALL INTAKE AIR CONNECTOR (See page [ES-455](#))

27. INSTALL REAR END PLATE (See page [EM-72](#))

28. INSTALL DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transmission) (See page [EM-79](#))

29. INSTALL FLYWHEEL SUB-ASSEMBLY (for Manual Transmission) (See page [EM-79](#))

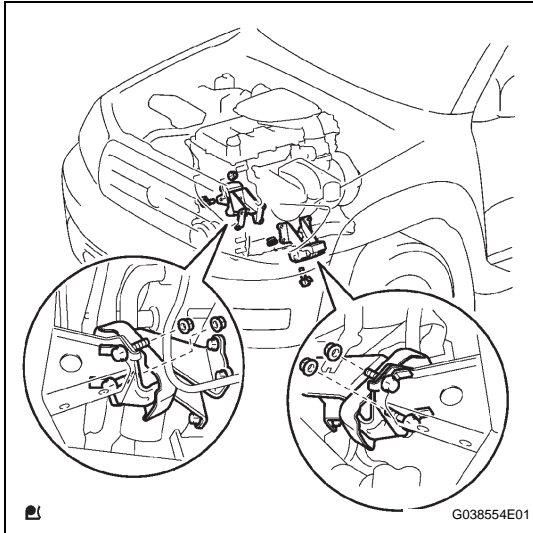
30. INSTALL CLUTCH DISC ASSEMBLY (for Manual Transmission)

Transmission	See page
R155	CL-32

Transmission	See page
R155F	CL-37

31. INSTALL CLUTCH COVER ASSEMBLY (for Manual Transmission)

Transmission	See page
R155	CL-32
R155F	CL-37



32. INSTALL ENGINE ASSEMBLY

- Attach the engine sling device and chain block to the engine hangers.
- Keep the engine level, and align the engine mounting bracket front No. 1 RH w/ engine mounting insulator front and LH with the body mountings.
- Attach the engine mounting bracket front No. 1 RH w/ engine mounting insulator front and LH, and install the 4 bolts and nuts.
Torque: 38 N*m (387 kgf*cm, 28 ft.*lbf)
- Remove the bolts, then remove the engine hangers.

33. INSTALL AUTOMATIC TRANSMISSION ASSEMBLY (See page [ED-7](#))

34. INSTALL MANUAL TRANSMISSION UNIT ASSEMBLY

Transmission	See page
R155	MT-9
R155F	MT-11

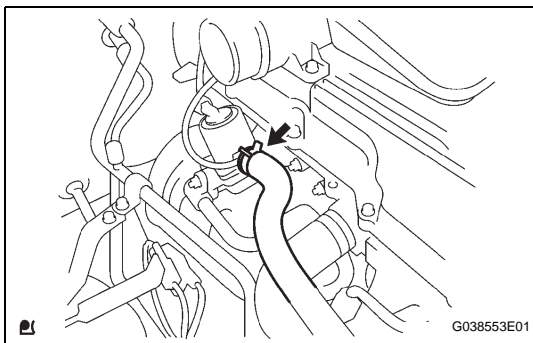
35. INSTALL FRONT EXHAUST PIPE ASSEMBLY (See page [EX-2](#))

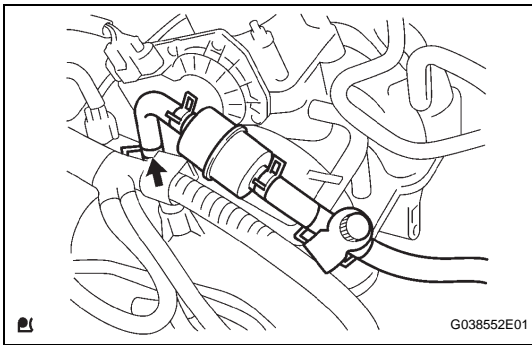
36. INSTALL EXHAUST PIPE ASSEMBLY TAIL (See page [EX-2](#))

37. INSTALL ENGINE WIRE

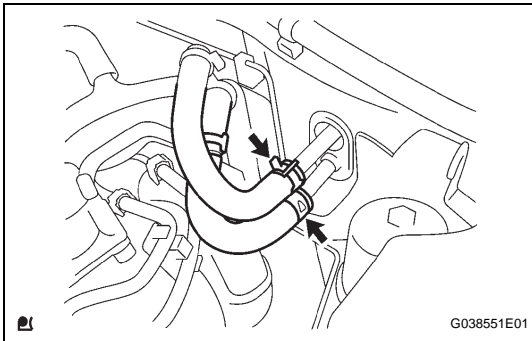
38. CONNECT NO. 1 AIR INJECTION HOSE

- Connect the fuel vapor feed hose.





39. **CONNECT FUEL VAPOR FEED HOSE ASSEMBLY**
(a) Connect the fuel feed hose.
40. **CONNECT NO. 2 FUEL HOSE** (See page [FU-17](#))
41. **CONNECT FUEL HOSE** (See page [FU-17](#))



42. **INSTALL WATER HOSE SUB-ASSEMBLY**
(a) Install the water hose.
43. **INSTALL RADIATOR HOSE INLET**
44. **INSTALL COMPRESSOR AND MAGNETIC CLUTCH (w/ Air Conditioning System)** (See page [EM-34](#))
45. **INSTALL NO. 2 RADIATOR HOSE**
46. **INSTALL VANE PUMP ASSEMBLY** (See page [EM-34](#))
47. **INSTALL AIR CLEANER CASE**
(a) Install the air cleaner case with the 3 bolts.
Torque: 12 N*m (122 kgf*cm, 9 ft.*lbf)
48. **INSTALL AIR CLEANER FILTER ELEMENT SUB-ASSEMBLY**
49. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY** (See page [EC-17](#))
50. **INSTALL FAN SHROUD** (See page [CO-18](#))
51. **INSTALL RADIATOR SUPPORT TO FRAME SEAL LH** (See page [CO-19](#))
52. **INSTALL BATTERY TRAY**
53. **INSTALL BATTERY**
54. **ADD ENGINE COOLANT** (See page [CO-3](#))
55. **ADD ENGINE OIL** (See page [LU-4](#))
56. **CHECK FOR ENGINE OIL LEVEL**
57. **CHECK FOR FUEL LEAKAGE**
58. **CHECK FOR ENGINE COOLANT LEAKAGE** (See page [CO-2](#))
59. **CHECK FOR OIL LEAKAGE**
60. **CHECK FOR EXHAUST GAS LEAKAGE**
61. **INSPECT IGNITION TIMING** (See page [EM-1](#))
62. **INSPECT ENGINE IDLE SPEED** (See page [EM-2](#))
63. **INSPECT CO/HC** (See page [EM-3](#))

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- 64. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type)**
 - (a) Install the engine under cover No. 1 with the 4 bolts.
Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)
 - 65. INSTALL NO. 2 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type, Regular Cab)**
 - (a) Install the engine under cover No. 2 with the 4 bolts.
Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)
 - 66. INSTALL HOOD SUB-ASSEMBLY**
(See page [ED-7](#))