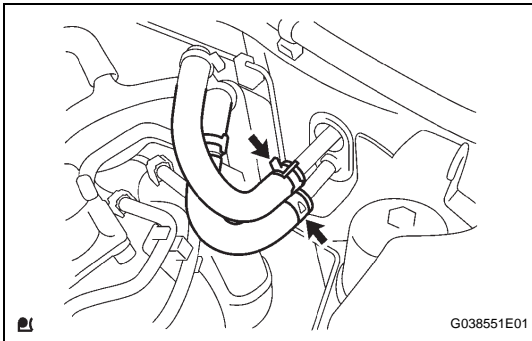
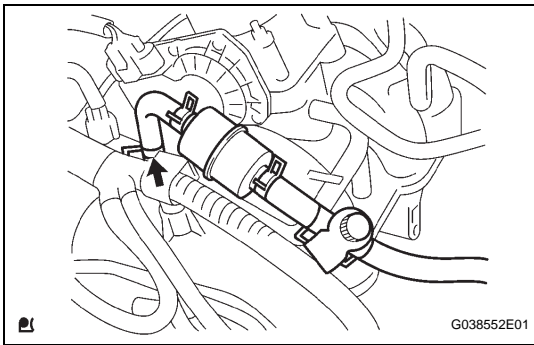


REMOVAL

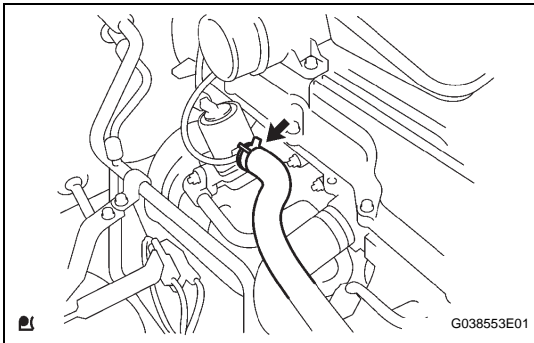
1. REMOVE HOOD SUB-ASSEMBLY
2. DISCHARGE FUEL SYSTEM PRESSURE
(See page [FU-1](#))
3. REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type)
(a) Remove the 4bolts, then remove the engine under cover No.1.
4. REMOVE NO. 2 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type, Regular Cab)
(a) Remove the 4 bolts, then remove engine cover No.2.
5. DRAIN ENGINE COOLANT (See page [CO-3](#))
6. REMOVE BATTERY
7. REMOVE BATTERY TRAY
8. REMOVE RADIATOR SUPPORT TO FRAME SEAL LH
(See page [CO-12](#))
9. REMOVE FAN SHROUD (See page [CO-13](#))
10. REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page [EC-14](#))
11. REMOVE AIR CLEANER FILTER ELEMENT SUB-ASSEMBLY
12. REMOVE AIR CLEANER CASE
(a) Remove the 3 bolts, then remove the air cleaner case.
13. SEPARATE VANE PUMP (See page [EM-21](#))
14. REMOVE NO. 2 RADIATOR HOSE
15. SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (w/ Air Conditioning System) (See page [EM-21](#))
16. REMOVE RADIATOR HOSE INLET
17. SEPARATE WATER HOSE SUB-ASSEMBLY
(a) Separate the water hoses.
18. DISCONNECT FUEL HOSE (See page [FU-11](#))
19. DISCONNECT NO. 2 FUEL HOSE (See page [FU-11](#))





20. SEPARATE FUEL VAPOR FEED HOSE ASSEMBLY

- (a) Disconnect the fuel vapor feed hose.



21. DISCONNECT NO. 1 AIR INJECTION HOSE

- (a) Disconnect the No.1 air injection hose.

22. DISCONNECT ENGINE WIRE

- (a) Disconnect the connector from the ECM, then pull the engine wire harness to the compartment side.

NOTICE:

Do not forcibly pull the wire harness to the engine compartment side.

- (b) Disconnect all wire harnesses and connectors in the engine room.



23. REMOVE EXHAUST PIPE ASSEMBLY TAIL (See page EX-2)

24. REMOVE EXHAUST PIPE ASSEMBLY FRONT (See page EX-2)

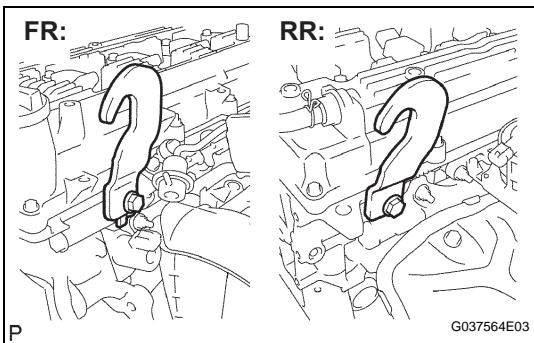
25. REMOVE MANUAL TRANSMISSION UNIT ASSEMBLY

Transmission	See page
R155	MT-6
R155F	MT-8

26. REMOVE AUTOMATIC TRANSMISSION ASSEMBLY (See page AT-113)

27. REMOVE ENGINE ASSEMBLY

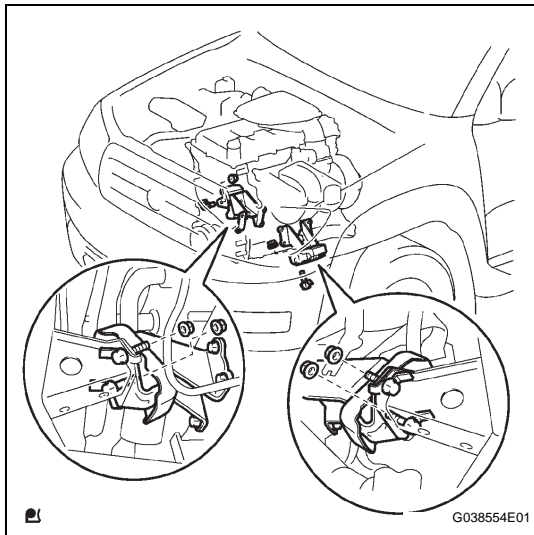
- (a) Install the engine hanger with the bolt.
Torque: 42 N*m (420 kgf*cm, 30 ft.*lbf)
Part No



Part Name	Part No.
Engine hanger	12281-75040
Bolt	91552-A1020

NOTICE:

Be sure to use the bolts when installing the engine hanger.



- (b) Attach the engine sling device and chain block to the engine hangers.
- (c) Remove the 4 bolts and 4 nuts.
- (d) Lift the engine out of the vehicle slowly and carefully by operating the engine sling device and chain block.

NOTICE:

Make sure that no wires, hoses or cables are connected to the engine.

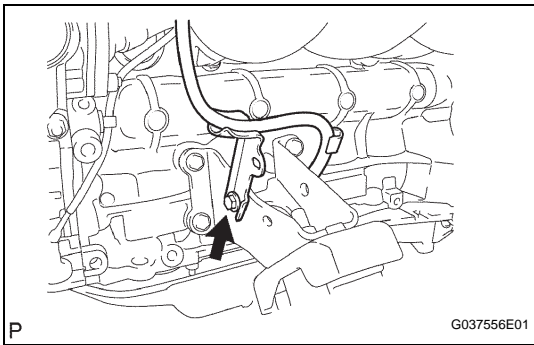
28. REMOVE CLUTCH COVER ASSEMBLY (for Manual Transmission)

Transmission	See page
R155	CL-30
R155F	CL-35

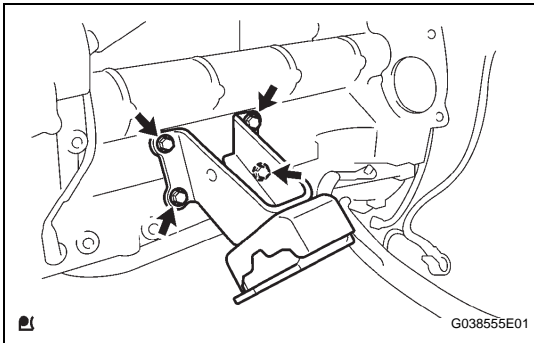
29. REMOVE CLUTCH DISC ASSEMBLY (for Manual Transmission)

Transmission	See page
R155	CL-30
R155F	CL-35

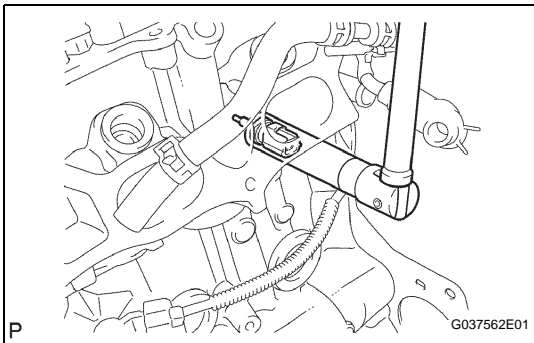
30. REMOVE FLYWHEEL SUB-ASSEMBLY (for Manual Transmission) (See page [EM-77](#))**31. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transmission) (See page [EM-78](#))****32. REMOVE REAR END PLATE (See page [EM-66](#))****33. REMOVE INTAKE AIR CONNECTOR (See page [ES-452](#))****34. REMOVE FUEL HOSE (See page [FU-11](#))****35. REMOVE NO. 2 FUEL HOSE (See page [FU-11](#))****36. REMOVE THROTTLE WITH MOTOR BODY ASSEMBLY (See page [ES-453](#))****37. REMOVE NO. 1 INTAKE MANIFOLD TO HEAD GASKET (See page [ES-460](#))****38. REMOVE IDLE PULLEY ASSEMBLY WITH BRACKET (w/ Air Conditioning System) (See page [ES-446](#))****39. REMOVE ENGINE WIRE****40. REMOVE OIL LEVEL GAGE SUB-ASSEMBLY**

**41. REMOVE OIL LEVEL GAGE GUIDE**

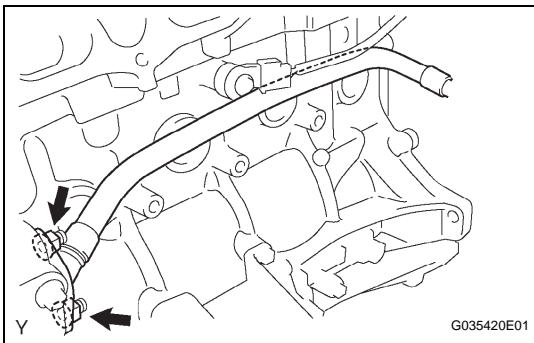
- (a) Remove the bolts, then remove the oil level gage guide.

**42. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET**

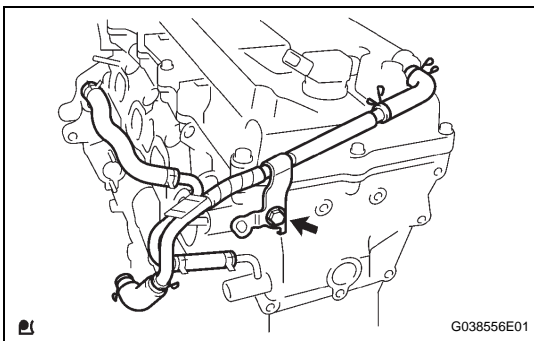
- (a) Remove the 4 bolts, then remove the engine mounting bracket front No. 1 LH with engine mounting insulator front.

43. REMOVE THERMOSTAT (See page CO-7)**44. REMOVE FUEL INJECTOR ASSEMBLY (See page FU-13)****45. REMOVE KNOCK SENSOR (See page ES-462)****46. REMOVE ENGINE COOLANT TEMPERATURE SENSOR**

- (a) Using a 19 mm deep socket wrench, remove the engine coolant temperature sensor.

**47. REMOVE NO. 1 WATER BY-PASS PIPE**

- (a) Remove the 2 nuts, then remove the water by-pass pipe No. 1.

**48. REMOVE VENTILATION PIPE**

- (a) Remove the bolts, then remove the ventilation pipe.

49. REMOVE IGNITION COIL ASSEMBLY

- (See page EM-38)

50. REMOVE SPARK PLUG**51. REMOVE GENERATOR ASSEMBLY (See page CH-7)****52. REMOVE NO. 1 IDLER PULLEY SUB-ASSEMBLY (See page EM-23)**

53. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY
(See page [CO-5](#))
54. REMOVE NO. 1 EXHAUST MANIFOLD HEAT INSULATOR (See page [EC-14](#))
55. REMOVE AIR SWITCHING VALVE ASSEMBLY (See page [EC-15](#))
56. REMOVE EXHAUST MANIFOLD (See page [EM-67](#))
57. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET RH
 - (a) Remove the 4 bolts, then remove the engine mounting bracket front No. 1 together with the engine mounting insulator front.
58. REMOVE ENGINE OIL PRESSURE SWITCH ASSEMBLY
(See page [LU-1](#))

