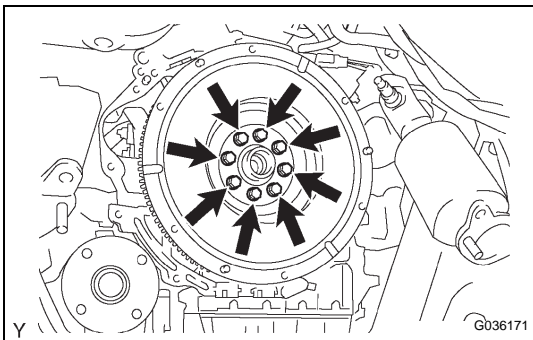
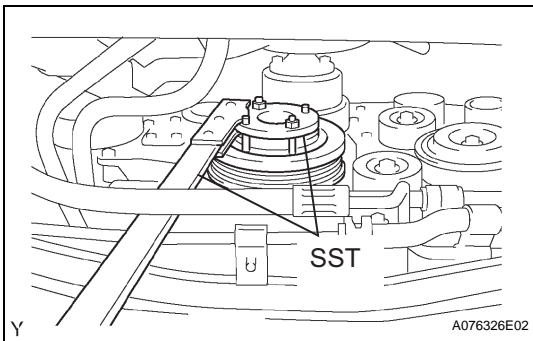
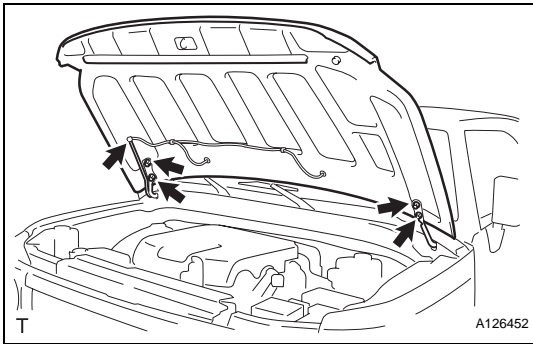
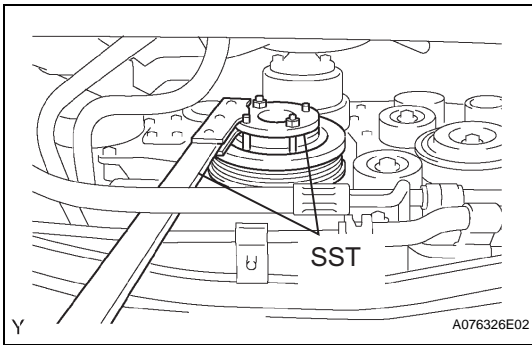


REMOVAL

1. **DISCHARGE FUEL SYSTEM PRESSURE**
(See page [FU-1](#))
2. **REMOVE BATTERY**
3. **DRAIN ENGINE COOLANT** (See page [CO-3](#))
4. **DRAIN ENGINE OIL** (See page [LU-4](#))
5. **REMOVE HOOD SUPPORT** (See page [ED-5](#))
6. **REMOVE HOOD SUB-ASSEMBLY**
 - (a) Disconnect the windshield washer hose.
 - (b) Remove the 4 bolts, then remove the hood.
7. **REMOVE RADIATOR ASSEMBLY**
Refer to the procedures up to " REMOVE RADIATOR ASSEMBLY" (See page [CO-22](#)).
8. **REMOVE MANUAL TRANSMISSION UNIT ASSEMBLY (for Manual Transmission)**
Refer to the procedures up to " REMOVE MANUAL TRANSMISSION UNIT ASSEMBLY" (See page [MT-8](#)).
9. **REMOVE AUTOMATIC TRANSMISSION ASSEMBLY (for Automatic Transmission)**
Refer to the procedures up to " REMOVE AUTOMATIC TRANSMISSION ASSEMBLY" (See page [AT-172](#) or [AT-178](#)).
10. **REMOVE CLUTCH DISC ASSEMBLY (for Manual Transmission)**
Refer to the procedures up to " REMOVE CLUTCH DISC ASSEMBLY" (See page [CL-21](#)).
11. **REMOVE FLYWHEEL SUB-ASSEMBLY (for Manual Transmission)**
 - (a) Using SST, hold the crankshaft.
SST 09213-54015 (91651-60855), 09330-00021



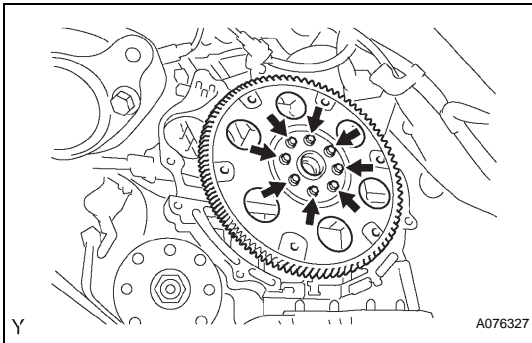
- (b) Remove the 8 bolts, then remove the flywheel and 2 spacers.



12. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transmission)

- (a) Using SST, hold the crankshaft.
SST 09213-54015 (91651-60855), 09330-00021

- (b) Remove the 8 bolts, then remove the drive plate and 2 spacers.



13. REMOVE THROTTLE BODY BRACKET (See page [FU-11](#))

14. REMOVE OIL BAFFLE PLATE (See page [FU-11](#))

15. REMOVE NO. 1 SURGE TANK STAY (See page [FU-11](#))

16. REMOVE NO. 2 SURGE TANK STAY (See page [FU-12](#))

17. REMOVE INTAKE AIR SURGE TANK (See page [FU-12](#))

18. REMOVE GENERATOR ASSEMBLY (See page [CH-10](#))

19. SEPARATE COOLER COMPRESSOR ASSEMBLY (See page [ES-420](#))

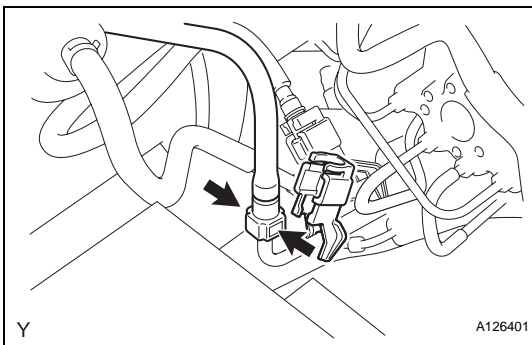
20. REMOVE VANE PUMP ASSEMBLY (See page [PS-8](#))

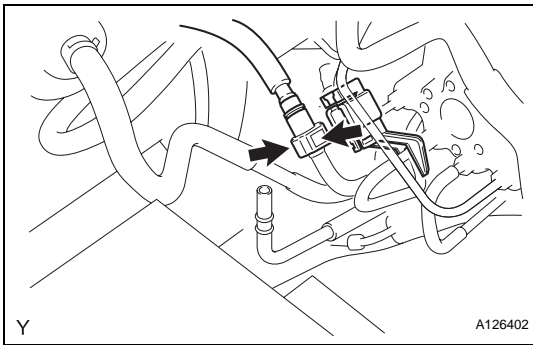
21. DISCONNECT NO. 1 FUEL PIPE SUB-ASSEMBLY

- (a) Remove the No. 2 fuel pipe clamp.
 (b) Pinch the retainer as illustrated, then pull the fuel tube connector out of the pipe.

NOTICE:

- Remove any dirt and foreign matter from the fuel tube connector before performing this work.
- Do not allow any scratches or foreign matter onto the parts when disconnecting, as the fuel tube connector has the O-rings that seals the pipe.
- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected part by covering it with a vinyl bag after disconnecting the fuel tube.
- If the fuel tube connector and pipe are stuck, push and pull to release them.

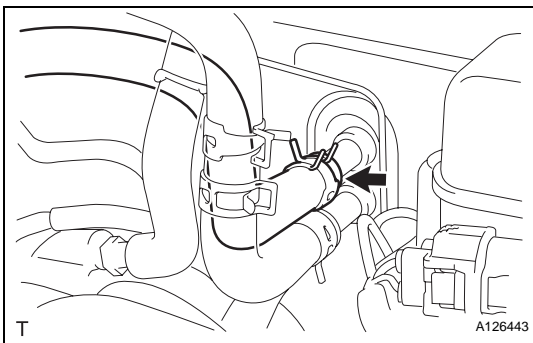


**22. DISCONNECT NO. 2 FUEL PIPE SUB-ASSEMBLY**

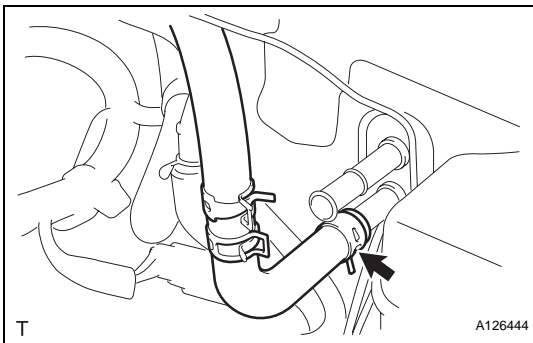
- (a) Remove the No. 2 fuel pipe clamp.
- (b) Pinch the retainer as illustrated, then pull the fuel tube connector out of the pipe.

NOTICE:

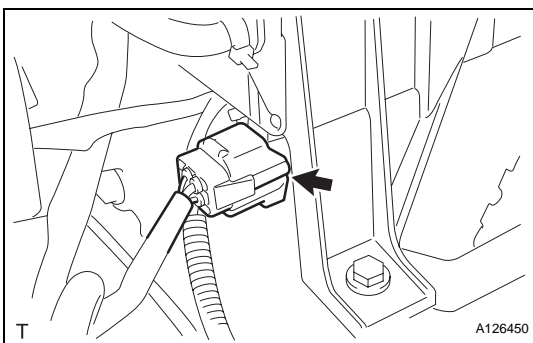
- Remove any dirt and foreign matter from the fuel tube connector before performing this work.
- Do not allow any scratches or foreign matter onto the parts when disconnecting, as the fuel tube connector has the O-rings that seals the pipe.
- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected part by covering it with a vinyl bag after disconnecting the fuel tube.
- If the fuel tube connector and pipe are stuck, push and pull to release them.

**23. DISCONNECT HEATER INLET WATER HOSE**

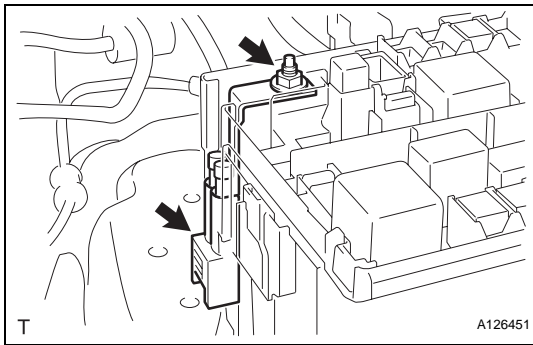
- (a) Disconnect the heater inlet water hose shown in the illustration.

**24. DISCONNECT HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)**

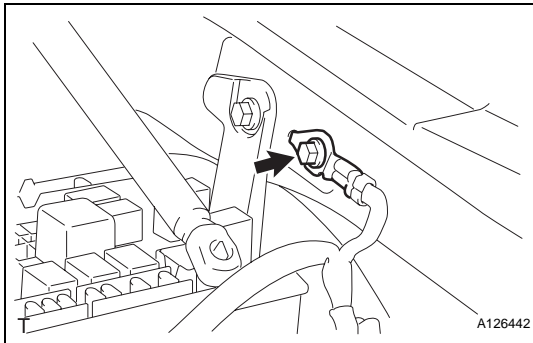
- (a) Disconnect the heater outlet water hose shown in the illustration.

**25. REMOVE NO. 2 ENGINE WIRE**

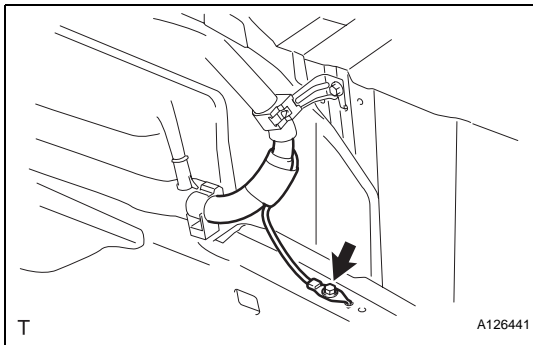
- (a) Disconnect the connector from the engine room relay block.



- (b) Remove the nut and separate the engine wire from the engine room relay block.



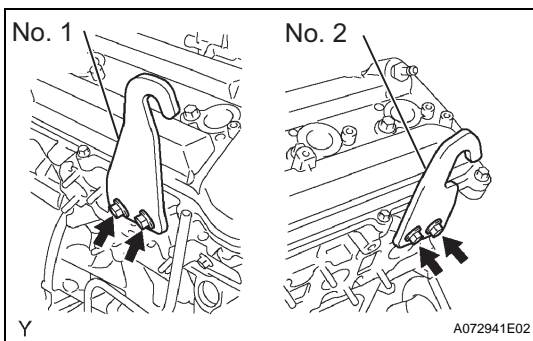
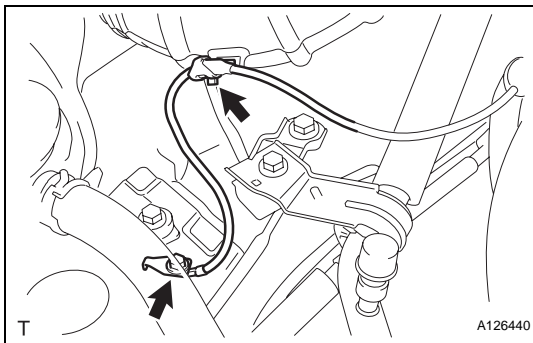
- (c) Remove the bolt and separate the ground wire from body.



- (d) Remove the bolt and separate the ground wire from the frame.

26. SEPARATE ENGINE WIRE

- Remove the glove compartment door (see page [IP-15](#))
- Disconnect the connector from the four wheel drive ECU (for Automatic Transmission 4WD).
- Disconnect the 3 connectors from the ECM.
- Disconnect the 2 connectors from the A/C unit.
- Pull the wire harness into the engine room.
- Remove the bolt and disengage the clamp, then separate the ground wire from the body.
- Disconnect the front differential connector (for Automatic Transmission 4WD).



27. REMOVE ENGINE ASSEMBLY

- Install the 2 engine hangers with the 4 bolts as shown in the illustration.

Part No:

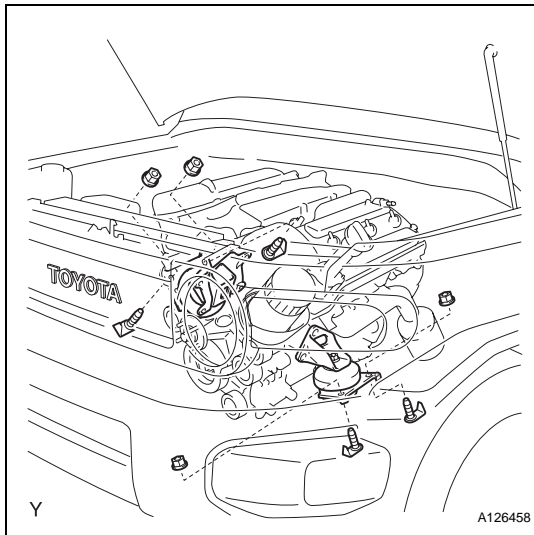
Engine hanger No. 1 12281-31070

Engine hanger No. 2 12282-31050

Bolt 90119-08177

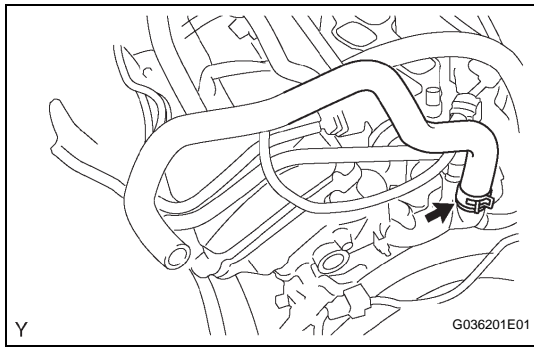
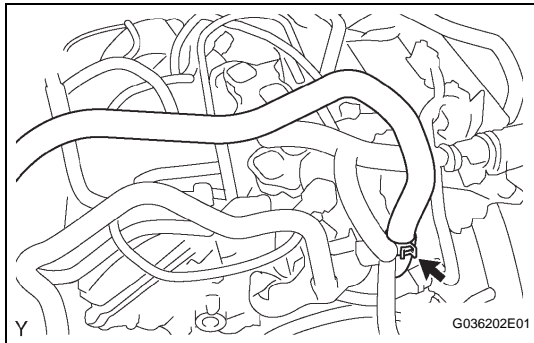
Torque: 33 N*m (336 kgf*cm, 24 ft.*lbf)

- Attach the engine sling device and hang the engine with a chain block.

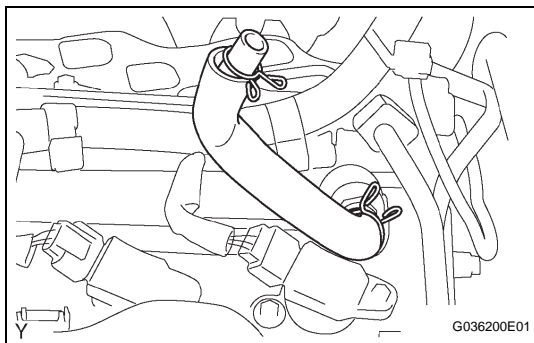


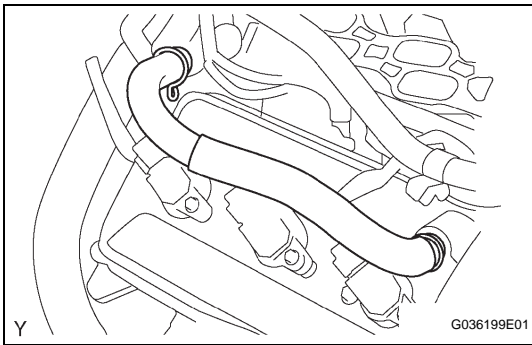
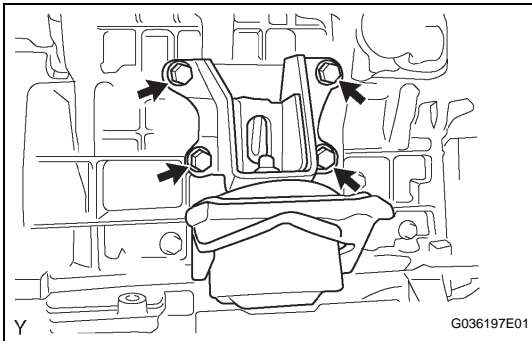
- (c) Remove the 4 bolts and 4 nuts, and separate the engine mounting brackets from the frame brackets.
- (d) Lift the engine out of the vehicle carefully.
NOTICE:
Make sure that the engine is clear of all wiring and hoses.
- (e) Place the engine on a work bench.

EM

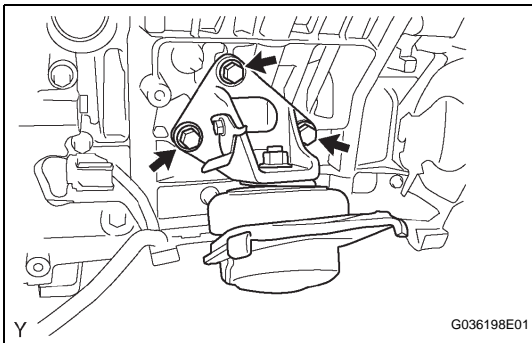
**28. REMOVE HEATER INLET WATER HOSE****29. REMOVE HEATER OUTLET WATER HOSE**

- (a) Disconnect and remove the heater outlet water hose with heater water outlet hose A.

**30. REMOVE VENTILATION HOSE**

**31. REMOVE NO. 2 VENTILATION HOSE****32. REMOVE MANIFOLD STAY (See page EM-68)****33. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY RH (See page EM-68)****34. REMOVE NO. 2 MANIFOLD STAY (See page EM-68)****35. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY LH (See page EM-69)****36. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET RH**

- (a) Remove the 4 bolts, then remove the engine mounting bracket RH.

**37. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET LH**

- (a) Remove the 3 bolts, then remove the engine mounting bracket LH.

38. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY (See page EM-22)**39. REMOVE NO. 2 IDLER PULLEY SUB-ASSEMBLY (See page EM-23)****40. REMOVE NO. 1 IDLER PULLEY SUB-ASSEMBLY (See page EM-23)****41. REMOVE INTAKE MANIFOLD (See page EM-69)****42. REMOVE IGNITION COIL ASSEMBLY (See page IG-8)****43. REMOVE OIL FILLER CAP SUB-ASSEMBLY****44. REMOVE OIL FILLER CAP HOUSING**

- (a) Remove the 2 nuts, oil filler cap housing and gasket.

45. REMOVE OIL LEVEL GAUGE SUB-ASSEMBLY**46. REMOVE ENGINE WIRE**

- (a) Remove the bolt and separate the ground wire from the bank 1 cylinder head.
- (b) Remove the bolt and separate the ground wire from the bank 2 cylinder head.
- (c) Disconnect the connector from the knock sensor sub wire.
- (d) Disconnect all connectors from the engine.
- (e) Disengage all clamps and remove the engine wire.