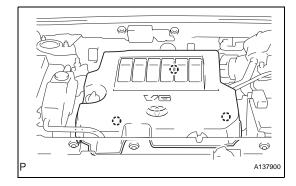
REMOVAL

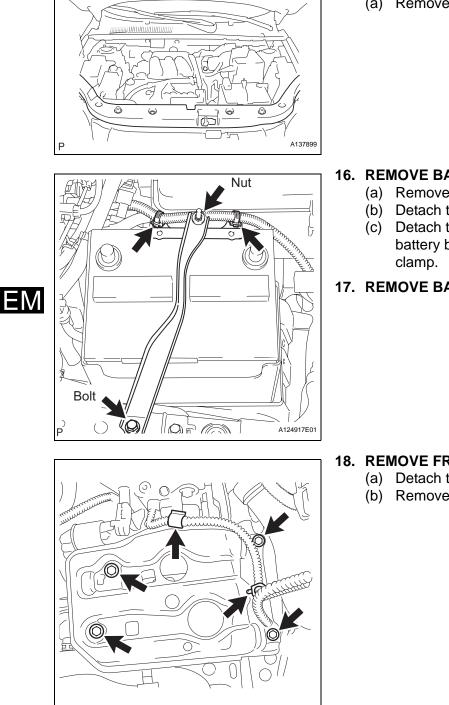
- 1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page AC-172)
- 2. DISCHARGE FUEL SYSTEM PRESSURE (See page FU-13)
- 3. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

- 4. REMOVE NO. 1 ENGINE UNDER COVER(a) Remove the 4 bolts, 12 clips and under cover.
- 5. REMOVE REAR ENGINE UNDER COVER RH(a) Remove the 2 clips and under cover.
- 6. REMOVE REAR ENGINE UNDER COVER LH (a) Remove the 2 clips and under cover.
- 7. REMOVE NO. 2 ENGINE UNDER COVER(a) Remove the 2 clips and under cover.
- 8. REMOVE FRONT FLOOR COVER (See page FU-34)
- 9. DRAIN ENGINE COOLANT (See page CO-8)
- 10. DRAIN ENGINE OIL (See page LU-4)
- 11. DRAIN AUTOMATIC TRANSAXLE FLUID
 - (a) 2WD: Drain automatic transaxle fluid (see page AX-172).
 - (b) 4WD: Drain automatic transaxle fluid (see page AX-173)
- 12. DRAIN TRANSFER OIL (for 4WD)
- 13. REMOVE HOOD SUB-ASSEMBLY (See page ED-4)
- 14. REMOVE V-BANK COVER SUB-ASSEMBLY
 - (a) Detach the 3 clips and remove the V-bank cover.







15. REMOVE RADIATOR SUPPORT OPENING COVER (a) Remove the 9 clips and cover.

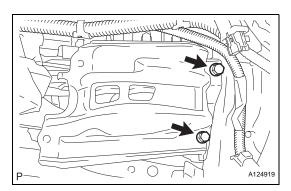
16. REMOVE BATTERY CLAMP SUB-ASSEMBLY

- (a) Remove the bolt and loosen the nut.
- (b) Detach the 2 wire harness clamps.
- (c) Detach the hook of the battery clamp from the battery bracket front, and then remove the battery

17. REMOVE BATTERY

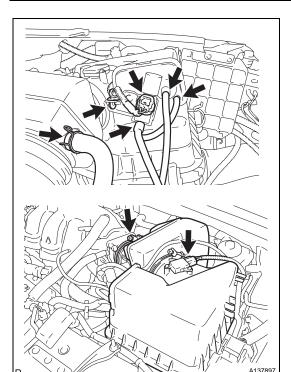
18. REMOVE FRONT BATTERY BRACKET

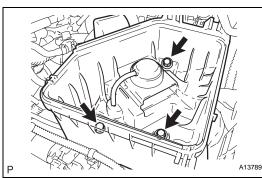
- (a) Detach the 2 wire harness clamps.
- (b) Remove the 4 bolts and front bracket.



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- **19. REMOVE BATTERY BRACKET REINFORCEMENT**
 - (a) Remove the 2 bolts and bracket reinforcement.





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20. REMOVE AIR CLEANER CAP SUB-ASSEMBLY

- (a) Disconnect the mass air flow meter connector.
- (b) Disconnect the VSV (air intake control) connector.
- (c) Disconnect the wire harness clamp and 3 vacuum hoses.
- (d) Disconnect the No. 2 ventilation hose from the air cleaner hose.
- (e) Loosen the No. 1 air cleaner hose clamp.
- (f) Unfasten the 2 hook clamps, and then remove the air cleaner cap.
- (g) Remove the air cleaner filter element from the air cleaner case.

21. REMOVE AIR CLEANER CASE

- (a) Disconnect the harness clamp.
- (b) Remove the 3 bolts and air cleaner case.

22. DISCONNECT HOSES AND CONNECTORS

- (a) Remove the engine room junction block cover (upper).
- (b) Remove the nut and disconnect the engine room junction block cover (side) with 3 connectors and wire.
- (c) Remove the nut and disconnect the starter wire.
- (d) Disconnect the fuel hoses.
- (e) Disconnect the 2 heater hoses.
- (f) Disconnect the 2 ECM connectors.
- 23. REMOVE ECM (See page ES-470)
- 24. REMOVE RADIATOR RESERVOIR TANK ASSEMBLY (a) Remove the 2 bolts, 2 hoses and reservoir tank.
- 25. REMOVE DISCHARGE HOSE SUB-ASSEMBLY (See page AC-220)
- 26. DISCONNECT SUCTION HOSE SUB-ASSEMBLY (See page AC-220)
- 27. DISCONNECT RADIATOR HOSE INLET
- 28. DISCONNECT RADIATOR HOSE OUTLET
- 29. DISCONNECT OIL COOLER HOSE
- 30. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY
 - (a) 2WD:

Disconnect the control cable (see page AX-154).



- (b) 4WD: Disconnect the control cable (see page AX-154).
- 31. REMOVE FRONT EXHAUST PIPE ASSEMBLY (See page EX-3)
- 32. REMOVE CENTER EXHAUST PIPE ASSEMBLY (See page EX-2)
- 33. REMOVE PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page PR-3)
- 34. REMOVE FRONT WHEELS
- 35. REMOVE FRONT AXLE HUB NUT LH(a) Remove the hub nut (see page AH-8).
- 36. REMOVE FRONT AXLE HUB NUT RH(a) Remove the hub nut (see page AH-8).
- 37. DISCONNECT FRONT STABILIZER LINK ASSEMBLY LH (See page SP-30)
- 38. DISCONNECT FRONT STABILIZER LINK ASSEMBLY RH (See page SP-30)
- 39. DISCONNECT STEERING INTERMEDIATE SHAFT (See page PS-44)
- 40. DISCONNECT TIE ROD END SUB-ASSEMBLY RH (See page PS-42)
- 41. DISCONNECT TIE ROD END SUB-ASSEMBLY LH (See page PS-42)
- 42. REMOVE FRONT DRIVE SHAFT LH
 - (a) 2WD:
 - Remove the drive shaft (see page DS-10).
 - (b) 4WD:
 - Remove the drive shaft (see page DS-43).

43. REMOVE FRONT DRIVE SHAFT RH

- (a) 2WD: Remove the drive sha
- Remove the drive shaft (see page DS-10).
 (b) 4WD: Remove the drive shaft (see page DS-43).

44. REMOVE ENGINE WITH TRANSAXLE

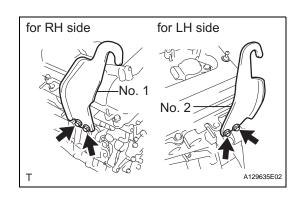
(a) Install the No. 1 and No. 2 engine hangers with the 4 bolts as shown in the illustration.

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Torque: 33 N*m (337 kgf*cm, 24 ft.*lbf)
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Part Name	Part No.
No. 1 engine hanger	12281-31120
No. 2 engine hanger	12282-31100
Bolt	91671-10825

HINT:

- Insert the claw of the hanger into hole of the cylinder head.
- Fit the fork part of the hanger onto the rib of the cylinder head.



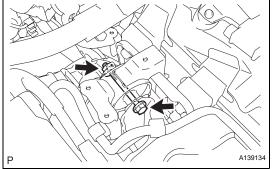


 (b) Install an engine sling device to the engine and hold the engine with a chain block.
 CAUTION:

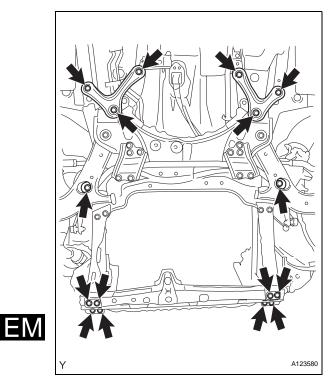
Do not raise the engine more than necessary. If the engine is raised excessively, the vehicle may also be lifted up.

- (c) Set an engine lifter underneath the engine.
- (d) Remove the column hole cover. Loosen the bolt holding the intermediate shaft, and slide the intermediate shaft.
- (e) Put matchmarks on the intermediate shaft and pinion.
- (f) Remove the 2 bolts and 2 nuts, and disconnect the engine mounting insulator RH.





(g) Remove the bolt and nut, and disconnect the engine mounting insulator LH.



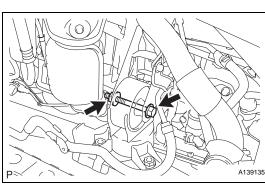
- (h) Remove the 6 bolts and front suspension member brace rear RH and LH.
- (i) Remove the 6 bolts, crossmember and suspension member.
- (j) Using the chain block, slowly remove the engine from the vehicle and the intermediate shaft from the pinion. Then set the engine on the engine lifter.
 NOTICE:
 - Make sure that the engine is clear of all wiring and hoses.
 - While lowering the engine from the vehicle, do not allow it to contact the vehicle. HINT:

Place the engine on wooden blocks or an equivalent so that the engine is level.

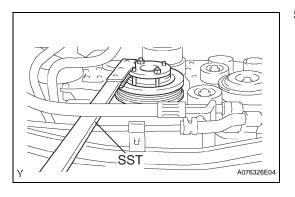
(k) Remove the sling device from the engine.

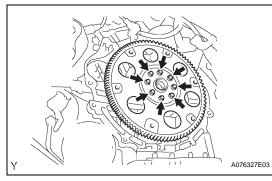
45. REMOVE FRONT CROSSMEMBER SUB-ASSEMBLY

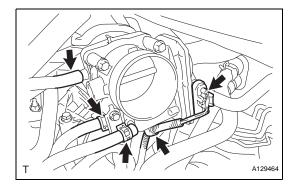
- (a) Install a chain block.
- (b) Remove the bolt, nut and crossmember.

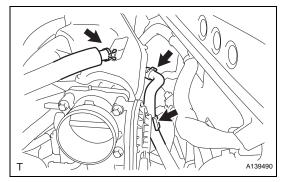


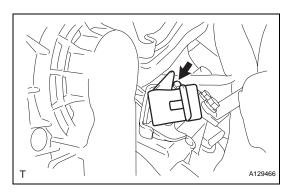
- for 2WD for 4WD for 4WD
- 46. REMOVE FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY
 - (a) Remove the bolt and suspension crossmember.
- 47. REMOVE ENGINE WIRE
 - (a) Remove the engine wire from the engine.
- 48. REMOVE STARTER ASSEMBLY (See page ST-6)
- 49. REMOVE TRANSFER ASSEMBLY (for 4WD) (See page TF-60)
- **50. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY** (a) 2WD:
 - Remove the automatic transaxle (see page AX-172).
 - (b) 4WD:
 - Remove the automatic transaxle (see page AX-173).











51. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY

(a) Using SST, hold the crankshaft. SST 09213-70011, 09330-00021

(b) Remove the 8 bolts, front spacer, drive plate and rear spacer.
 NOTICE:
 Do not reuse the bolts.

52. INSTALL ENGINE TO ENGINE STAND

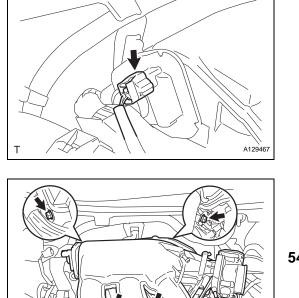
(a) Install the engine to an engine stand. Remove the sling device and chain block from the engine.

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53. REMOVE INTAKE AIR SURGE TANK ASSEMBLY

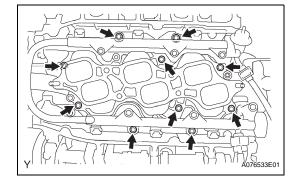
- (a) Disconnect the 2 water by-pass hoses from the throttle body.
- (b) Disconnect the vapor feed hose.
- (c) Disconnect the throttle body connector and clamp.
- (d) Disconnect the No. 2 ventilation hose.
- (e) Disconnect the union to check valve hose.

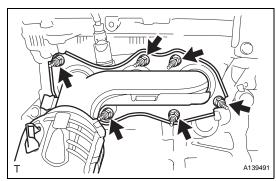
(f) Remove the bolt and vacuum hose clamp.



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(g) Disconnect the connector.

- (h) Using a 5 mm socket hexagon wrench, remove the 4 bolts.
- (i) Remove the 2 nuts, 2 bolts and surge tank.
- (j) Remove the gasket from the surge tank.
- 54. REMOVE IGNITION COIL ASSEMBLY
 - (a) Remove the 6 bolts and 6 coils from the cylinder head.
- 55. REMOVE NO. 2 ENGINE MOUNTING STAY RH(a) Remove the bolt and mounting stay.
- 56. REMOVE FUEL INJECTOR ASSEMBLY (See page FU-14)
- 57. REMOVE INTAKE MANIFOLD
 - (a) Remove the 6 bolts, 4 nuts, intake manifold and 2 gaskets.

- 58. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY RH
 - (a) Disconnect the air fuel ratio sensor connector clamp.
 - (b) Uniformly loosen and remove the 6 nuts.
 - (c) Remove the manifold and gasket.
- 59. REMOVE FAN AND GENERATOR V BELT (See page EM-8)
- 60. REMOVE COMPRESSOR WITH PULLEY ASSEMBLY (See page AC-220)
- 61. REMOVE GENERATOR ASSEMBLY (See page CH-12)

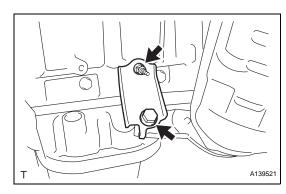
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- (b) Remove the 2 bolts, and the No. 1 and No. 2 guides.
- (c) Remove the O-rings from the guide.
- 63. REMOVE NO. 2 MANIFOLD STAY(a) Remove the bolt, nut and manifold stay.
- 64. REMOVE NO. 2 EXHAUST MANIFOLD HEAT INSULATOR
 - (a) Remove the 3 bolts and insulator.

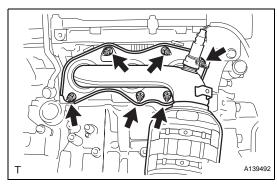
65. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY LH

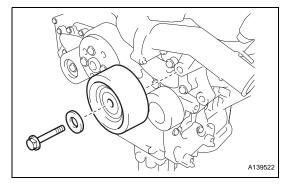
- (a) Uniformly loosen and remove the 6 nuts.
- (b) Remove the manifold and gasket.
- 66. REMOVE ENGINE MOUNTING BRACKET RH(a) Remove the 3 bolts and bracket.
- 67. REMOVE DRIVE SHAFT BEARING BRACKET
 - (a) Remove the 3 bolts and drive shaft bearing bracket.
- 68. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY
 - (a) Remove the 5 bolts and V-ribbed belt tensioner assembly.
- 69. REMOVE NO. 2 TIMING GEAR COVER(a) Remove the 2 bolts and gear cover.
- 70. REMOVE NO. 2 IDLER PULLEY SUB-ASSEMBLY(a) Remove the bolt, plate and idler pulley.
- 71. REMOVE WATER PUMP PULLEY (See page CO-12)
- 72. REMOVE NO. 1 FRONT ENGINE MOUNTING BRACKET LH
 - (a) Remove the 6 bolts and bracket.





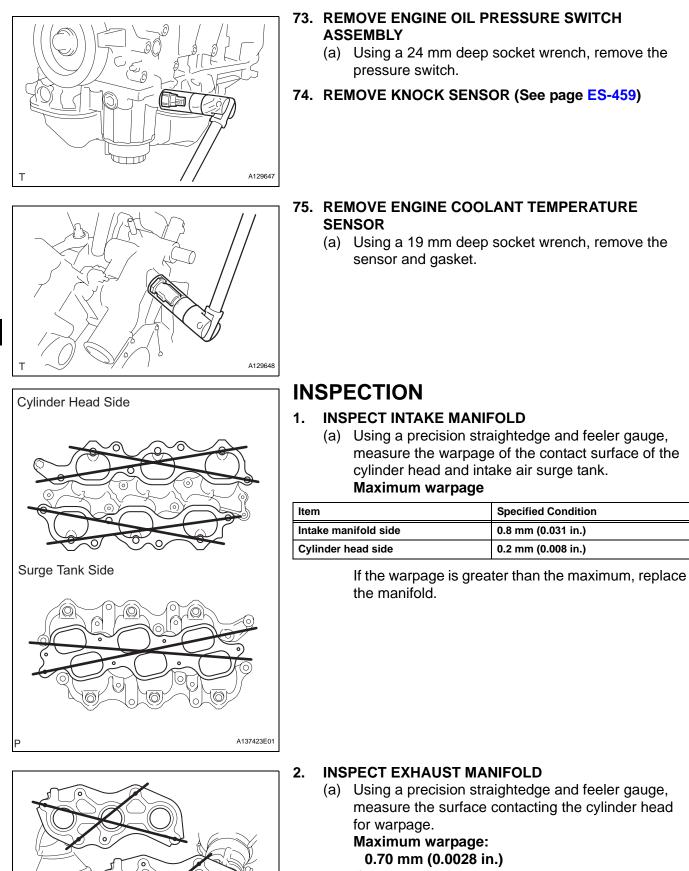
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If the warpage is greater than the maximum, replace the manifold.