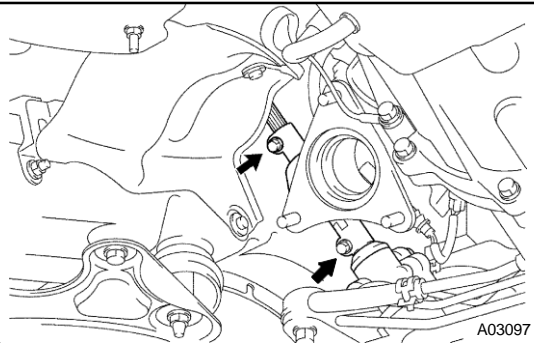


REPLACEMENT

1. WORK FOR PREVENTING GASOLINE FROM SPILLING OUT⁶) (See page 11
2. DISCONNECT BATTERY NEGATIVE TERMINAL
3. REMOVE HOOD ~~ASSY~~
4. REMOVE BANK COVER
5. REMOVE AIR CLEANER INLET NO.1
6. REMOVE INTAKE AIR CONNECTOR PIPE
7. REMOVE AIR CLEANER ASSY
8. REMOVE FRONT WHEEL
9. REMOVE ENGINE UNDER COVER NO.1
10. REMOVE ENGINE UNDER COVER NO.2 DRAIN
11. ENGINE OIL
12. DRAIN ENGINE COOLANT
13. DRAIN AUTOMATIC TRANSMISSION FLUID
14. REMOVE RADIATOR ASSY
15. DISCONNECT FUEL PIPE ASSY B-NO.2 (See page 11
16. REMOVE FAN AND GENERATOR V BELT ⁶) See page 14-
17. DISCONNECT ENGINE WIRE
 - (a) Disconnect the engine wire from the ECM box.
 - (b) Remove the nut, and disconnect the generator wire from the generator. Disconnect
 - (c) the wire for generator wire from the wire clamp on generator.
 - (d) Remove the bolt, and disconnect the ground cable from the stay on the gener
 - (e) Remove the 2 bolts, and disconnect the PS oil hose from the No. 1 oil pa
 - (f) Remove the bolt, and disconnect the ground strap from the body.
18. DISCONNECT AIR HOSE NO.5
19. DISCONNECT FUEL VAPOR FEED HOSE NO.2
20. DISCONNECT HEATER WATER INLET HOSE A
21. DISCONNECT HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)
22. DISCONNECT VANE PUMP OIL RESERVOIR ASSY
23. DISCONNECT VANE PUMP ASSY
 - (a) Disconnect the 2 PS air hoses.
 - (b) Remove the 2 screws and RH engine under cover.
 - (c) Disconnect the PS oil pressure switch connector.
 - (d) Remove the 2 bolts and nut, and disconnect the pump from the engine.
 - (e) Support the pump securely.
24. DISCONNECT COOLER COMPRESSOR ASSY
 - (a) Disconnect the compressor connector.
 - (b) Disconnect the wire clamp from the wire bracket on the compressor.
 - (c) Remove the bolt, nut and stay.
 - (d) Remove the bolt, and disconnect the wire bracket from the compressor.
 - (e) Remove the bolt, and disconnect the compressor from the engine.
 - (f) Support the cooler compressor securely.
25. REMOVE FRONT FLOOR BRACE CENTER
 - (a) Remove the 4 bolts and brace center.
26. REMOVE EXHAUST PIPE ASSY (See-e4) page 15
27. REMOVE W/CATALYST CONVERTER ASSY
28. REMOVE FRONT FLOOR HEAT INSULATOR NO.1
29. REMOVE PARKING BRAKE CABLE HEAT INSULATOR
30. REMOVE PROPELLER W/CENTER BEARING SHAFT ASSY ⁹) See page 30-

31. REMOVE FLOOR SHIFT GEAR SHIFTING-ASSY SUB**32. REMOVE STEERING SLIDING W / SUB-ASSY**

- (a) Check the steering wheel at the ~~head~~ position.
- (b) Remove the 2 bolts and sliding yoke from the intermediate shaft.

33. REMOVE FRONT DISC BRAKE CYLINDER ASSY RH [39](#) (See [page 32-](#)

34. REMOVE DISC BRAKE CYLINDER ASSY LH [3](#) [5](#) (See [page 32-](#)

35. REMOVE FRONT SUSPENSION UPPER ARM ASSY RH [23](#) (See [page 26-](#)

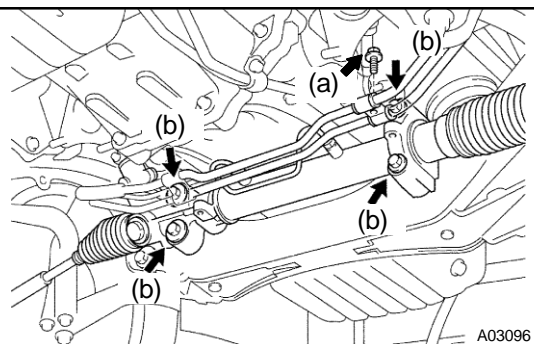
36. REMOVE FRONT SUSPENSION UPPER ARM ASSY LH [23](#) (See [page 26-](#)

37. REMOVE PNEUMATIC FRONT RH W/SHOCK ABSORBER CYLINDER ASSY [12](#) (See [page 26-](#)

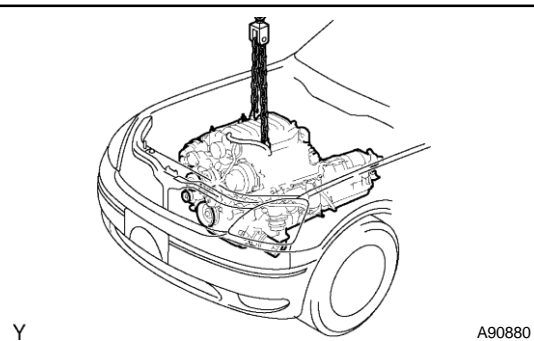
38. REMOVE PNEUMATIC FRONT LH W/SHOCK ABSORBER CYLINDER ASSY [12](#) (See [page 26-](#)

39. REMOVE HEIGHT CONTROL SENSOR ASSY FRONT (See [page 26](#))

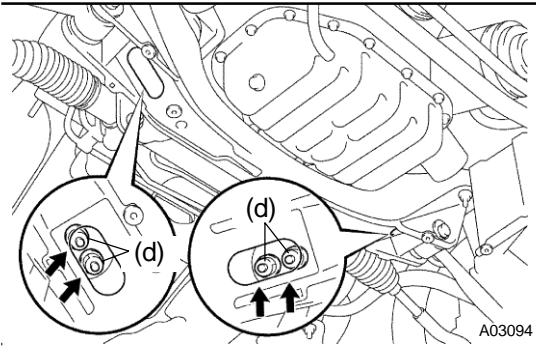
40. REMOVE STABILIZER BRACKET FRONT (See [page 26](#))

**41. DISCONNECT POWER STEERING GEAR HOUSING ASSY**

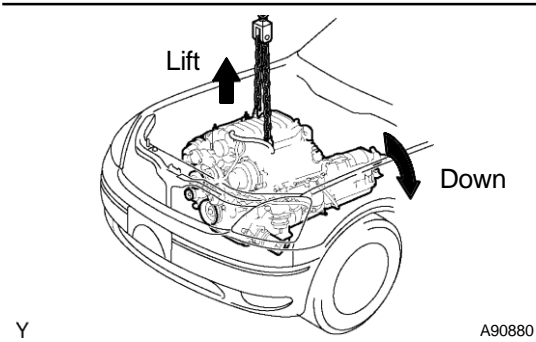
- (a) Remove the bolt, and disconnect the 2 PS oil tubes from the front frame.
- (b) Remove the 4 bolts, and disconnect the PS gear housing from the front frame.
- (c) Suspend the PS gear housing securely.

**42. REMOVE ENGINE W/ TRANSMISSION ASSEMBLY**

- (a) Remove the nut and No. 1 V-bank cover bracket from the No. 2 engine hanger.
- (b) Attach the engine chain hoist to the engine hangers.



- (c) Remove the 2 hole plugs.
- (d) Remove the 4 nuts holding the engine mounting to the front suspension crossmember.
- (e) Remove the 4 bolts, 4 nuts and rear engine member.



- (f) Lift the engine out of the vehicle slowly and
HINT: Make sure the engine is clear of all wiring, hose
- (g) Place the engine and transmission assy onto th

43. DISCONNECT ENGINE WIRE

- (a) Disconnect the engine wire from the transmission.
 - (1) Disconnect the VSV connector.
 - (2) Disconnect the PNP switch connector.
 - (3) Disconnect the solenoid connector.
 - (4) Disconnect the direct clutch speed sensor connector.
 - (5) Disconnect the engine wire from the 3 wire clamps.
 - (6) Disconnect the oil level sensor connector.

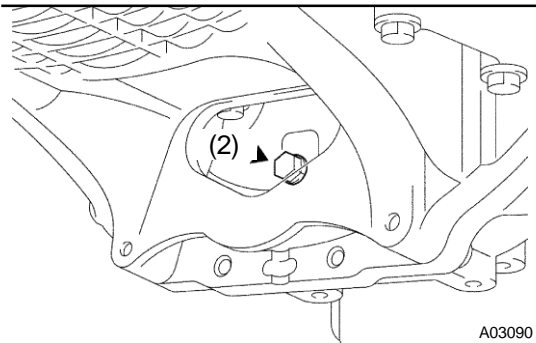
44. REMOVE TRANSMISSION OIL FILTER TUBBY SUB-

45. REMOVE OIL COOLER OUTLET TUBE NO.1

46. REMOVE OIL COOLER INLET TUBE NO.1

47. REMOVE AUTOMATIC TRANSMISSION ASSY

- (a) Remove the torque converter clutch bolts.
 - (1) Remove the 2 bolts and flywheel housing cover.
 - (2) Turn the crankshaft damper bolt to gain each bolt.
 - (3) Hold the crankshaft damper bolt with a wre remove the 6 bolts.
- (b) Remove the 10 bolts and ground strap.
- (c) Remove the transmission together with the torqu verter clutch from the engine.

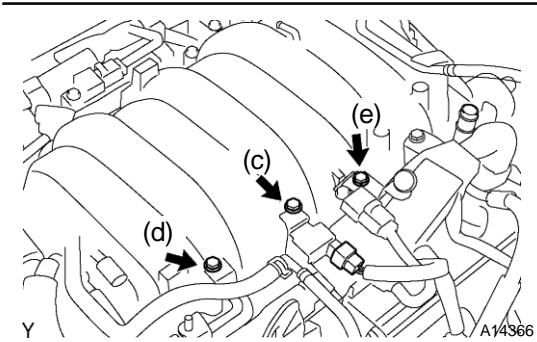


48. REMOVE DRIVE PLATE & RING GEAR SUB-ASSY

- (a) Remove the 8 bolts, rear spacer, ring gear and front spacer.

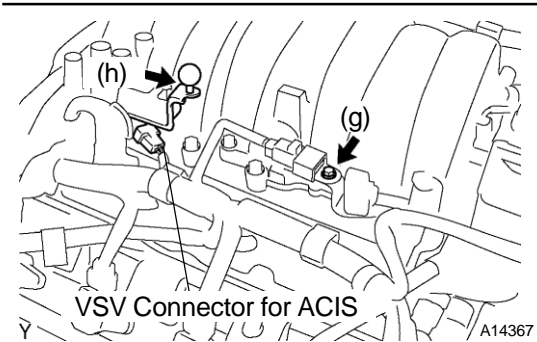
49. INSTALL ENGINE STAND

50. REMOVE THROTTLE BODY ASSY (See9) page 10-

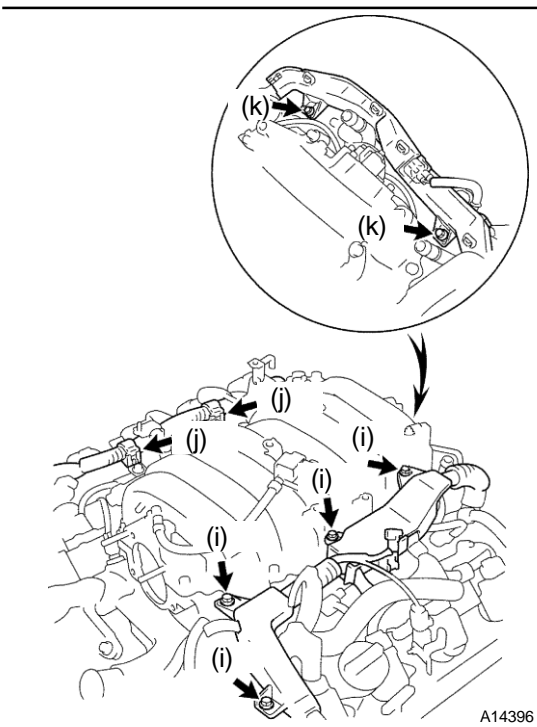


51. REMOVE INTAKE MANIFOLD ASSY

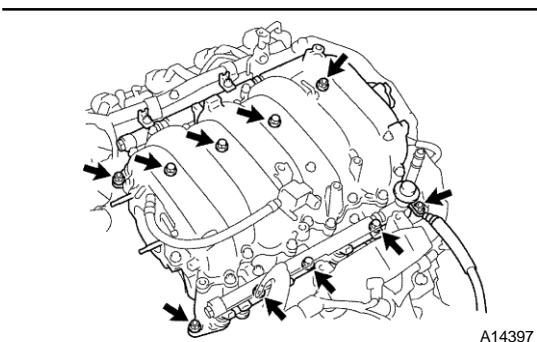
- (a) Disconnect the VSV connector for EVAP.
- (b) Disconnect the EVAP hose from the VSV for EVAP.
- (c) Remove the bolt, disconnect the VSV for EVAP from the upper intake manifold.
- (d) Remove the bolt and V-bank cover bracket No. 2.
- (e) Remove the bolt and V-bank cover bracket No. 3.



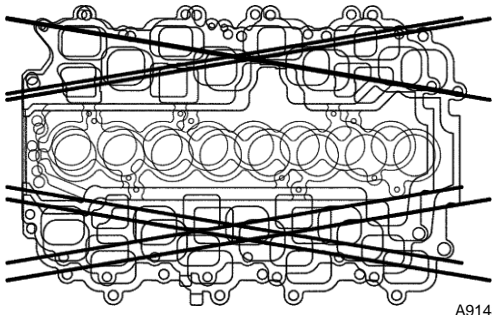
- (f) Disconnect the VSV connector for ACIS.
- (g) Remove the bolt and V-bank cover bracket No. 1.
- (h) Remove the bolt and V-bank cover fastener.



- (i) Remove the 4 bolts, and disconnect the engine wire protector (LH side) from the upper intake manifold and camshaft bearing cap.
- (j) Disconnect the 2 wire clamps on the engine wire (RH side) from the brackets on the RH delivery pipe.
- (k) Remove the 2 bolts, and disconnect the engine wire protector (rear side) from the rear water by-pass joint and RH cylinder head.



- (l) Disconnect the 8 injector connectors.
- (m) Remove the 6 bolts, 4 nuts, intake manifold assy and 2 gaskets.



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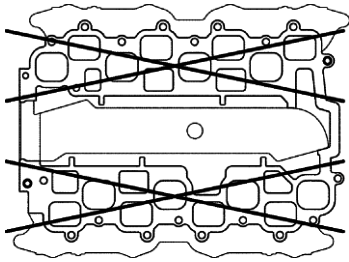
52. INSPECT INTAKE MANIFOLD ASSY

(a) Upper intake manifold:
Using a precision straight edge and feeler gauge sure the surface contacting the cylinder head fo page.

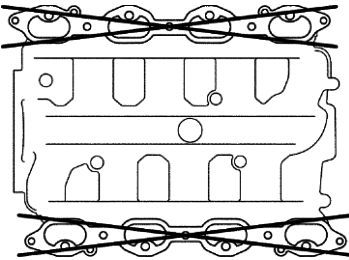
Maximum warpage: 0.15 mm (0.0059 in.)

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

Upper Intake Manifold Side



Cylinder Head Side



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(b) Lower intake manifold
Using a precision straight edge and feeler gauge sure the surface contacting the cylinder head fo page.

Maximum warpage: 0.15 mm (0.0059 in.)

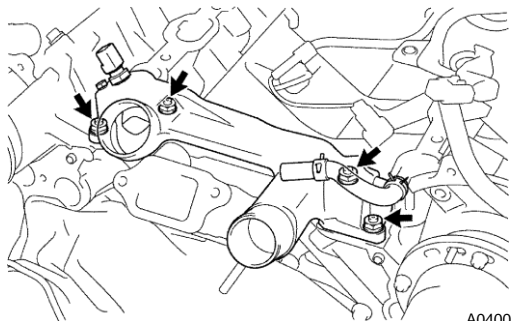
If the warpage is greater than the maximum, replace ifold.

53. REMOVE STARTER ASSY (See-10p)age 19

54. REMOVE GENERATOR ASSY (See-27p)age 19

55. REMOVE WATER INLET HOUSING

(a) Remove the 2 bolts and inlet housing.

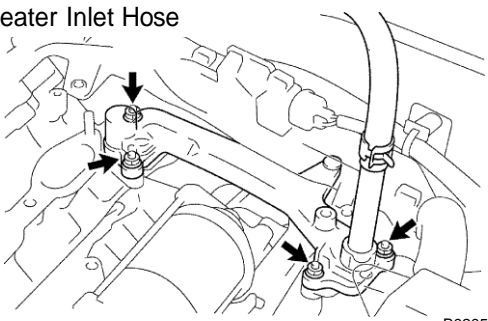


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56. REMOVE WATER BY-PASS JOINT FR

- (a) Disconnect the ECT sensor connector.
- (b) Remove the 4 nuts, water by-pass joint and 2 gaskets.

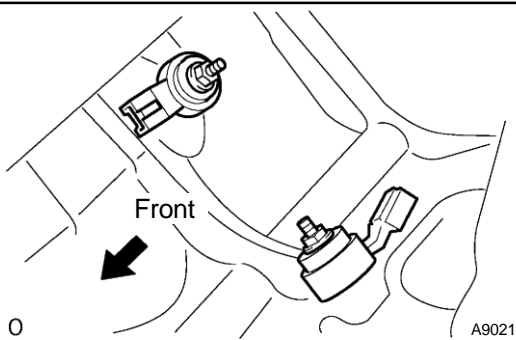
Heater Inlet Hose

**57. REMOVE WATER BY-PASS JOINT RR**

- (a) Disconnect the heater inlet hose from the water by-pass joint.
- (b) Remove the 4 nuts, water by-pass joint and 2 gaskets.

58. REMOVE WATER BY-PASS PIPE SUB-ASSY

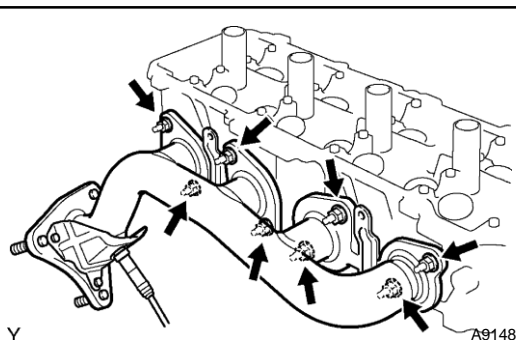
- (a) Disconnect the heater outlet hose from the water by-pass pipe.
- (b) Disconnect the wire clamp (for knock sensor bank 1, 2) from the bracket of the water by-pass pipe.
- (c) Remove the bolt.
- (d) Pull out the water by-pass pipe from the water pump.
- (e) Remove the O-ring from the water by-pass pipe.

59. REMOVE OIL LEVEL GAGE GUIDE**60. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSY****61. REMOVE CAMSHAFT POSITION SENSOR****62. REMOVE VVT SENSOR****63. REMOVE KNOCK SENSOR**

- (a) Disconnect the 2 knock sensor connectors.
- (b) Remove the 2 nuts and 2 knock sensors.

64. REMOVE ENGINE HANGER NO. 1**65. REMOVE ENGINE HANGER NO.2****66. REMOVE IGNITION COIL ASSY****67. REMOVE OIL FILTER BRACKET SUB-ASSY**

- (a) Disconnect the oil pressure switch connector.
- (b) Remove the stud bolt, 2 nuts and oil filter bracket with gasket.

68. REMOVE CRANKSHAFT POSITION SENSOR**69. REMOVE ENGINE OIL LEVEL SENSOR****70. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO.1****71. REMOVE EXHAUST MANIFOLD SUB-ASSY RH**

- (a) Remove the 8 nuts, exhaust manifold and gasket.

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