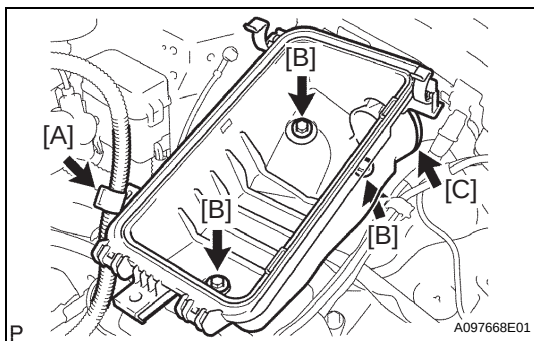
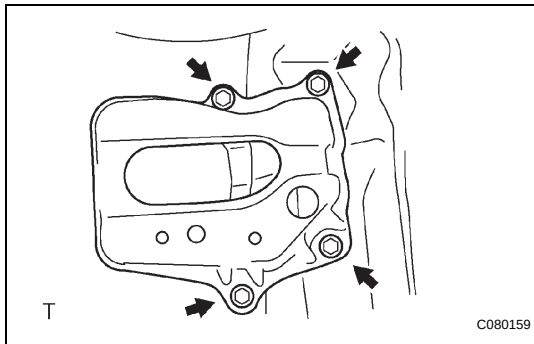
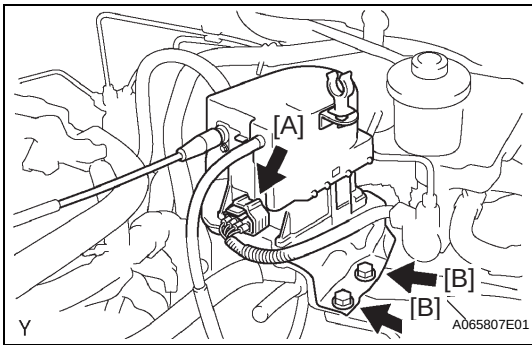


REMOVAL

1. **DISCHARGE FUEL SYSTEM PRESSURE**
(a) Discharge fuel system pressure (See page [FU-1](#)).
2. **DISCONNECT BATTERY NEGATIVE TERMINAL**
3. **REMOVE FRONT WHEELS**
4. **REMOVE ENGINE UNDER COVER RH**
5. **REMOVE ENGINE UNDER COVER LH**
6. **REMOVE CYLINDER HEAD COVER NO.2**
(a) Remove the cylinder head cover No. 2 (See page [EM-15](#)).
7. **DRAIN ENGINE COOLANT**
(a) Drain the engine coolant (See page [CO-5](#)).
8. **DISCONNECT RADIATOR HOSE INLET**
9. **DISCONNECT RADIATOR HOSE OUTLET**
10. **DISCONNECT OIL COOLER INLET HOSE NO.1 (for Automatic Transaxle)**
11. **DISCONNECT OIL COOLER OUTLET HOSE NO.1 (for Automatic Transaxle)**
12. **REMOVE RADIATOR ASSEMBLY (w/ Air Conditioning System)**
(a) Remove the radiator assembly (See page [CO-17](#)).
13. **REMOVE BATTERY**
14. **REMOVE BATTERY TRAY**
15. **REMOVE BATTERY CARRIER**
(a) Remove the 4 bolts, then remove the battery carrier.
16. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY**
(a) Remove the air cleaner cap sub-assembly (See page [ES-395](#)).
17. **REMOVE AIR CLEANER CASE SUB-ASSEMBLY**
(a) Disconnect the clamp [A] of the engine wire.
(b) Remove the 3 bolts [B] from the air cleaner case.
(c) Disconnect the air cleaner case from the air cleaner inlet No. 1 [C].



**18. SEPARATE CRUISE CONTROL ACTUATOR ASSEMBLY (w/ Cruise Control)**

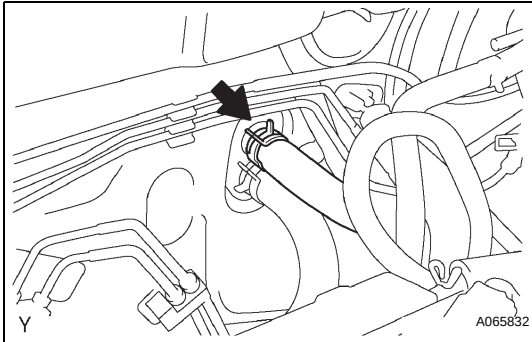
- (a) Disconnect the actuator connector [A].
- (b) Remove the 2 bolts [B], then separate the actuator from the body.

19. DISCONNECT FUEL TUBE SUB-ASSEMBLY

- (a) Disconnect the fuel tube sub-assembly (See page [FU-11](#)).
SST 09268-21010

20. DISCONNECT UNION TO CHECK VALVE HOSE**21. DISCONNECT HEATER INLET WATER HOSE**

- (a) Disconnect the heater inlet water hose from the air conditioner tube.

**22. DISCONNECT HEATER OUTLET WATER HOSE**

- (a) Disconnect the heater outlet water hose from the air conditioner tube.

23. SEPARATE TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle)

- (a) Separate the transmission control cable assembly (See page [MX-19](#)).

24. SEPARATE TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle)

- (a) Separate the transmission control cable assembly (See page [AX-125](#)).

25. SEPARATE CLUTCH RELEASE CYLINDER ASSEMBLY (for Manual Transaxle)

- (a) Separate clutch release cylinder assembly (See page [MX-19](#)).

26. REMOVE FAN AND GENERATOR V BELT

- (a) Remove the fan and generator V belt (See page [EM-5](#)).

27. REMOVE GENERATOR ASSEMBLY

- (a) Remove the generator assembly (See page [CH-6](#)).

28. SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (w/ Air Conditioning System)

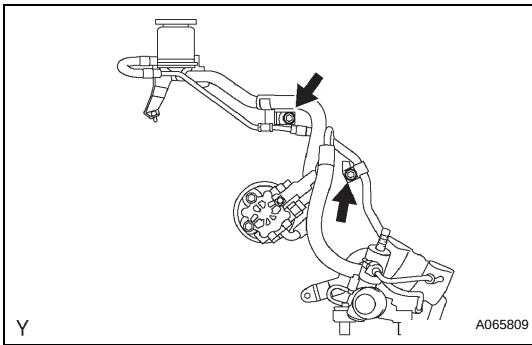
- (a) Separate the compressor and magnetic clutch (See page [AC-33](#)).

HINT:

Secure the compressor and hoses off to the side instead of discharging the A/C system.

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**29. SEPARATE RETURN TUBE SUB-ASSEMBLY**

- (a) Separate the vane pump oil reservoir from the oil reservoir bracket.
- (b) Remove the 2 bolts, then separate the return tube.

30. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY

- (a) Remove the glove compartment door assembly (See page [IP-5](#)).

31. REMOVE FRONT DOOR SCUFF PLATE RH

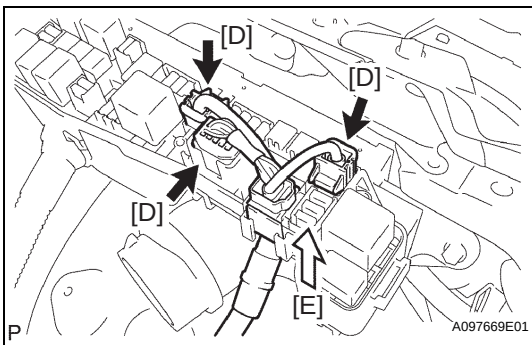
- (a) Remove the front door scuff plate LH (See page [IR-5](#)).

32. REMOVE COWL SIDE TRIM BOARD RH

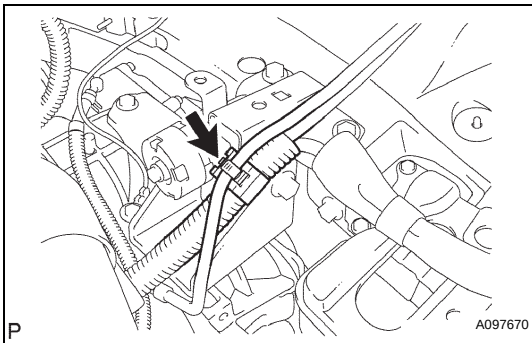
- (a) Remove the cowl side trim board RH (See page [IP-5](#)).

33. DISCONNECT ENGINE WIRE

- (a) Disconnect the engine wire from the ECM and junction block.
- (b) Pull out the engine wire.
- (c) Remove the engine room relay block cover.
- (d) Disconnect the 3 connectors [D].
- (e) Disconnect the engine wire harness by pulling it upward [E].



- (f) Remove the clamp of the engine wire.



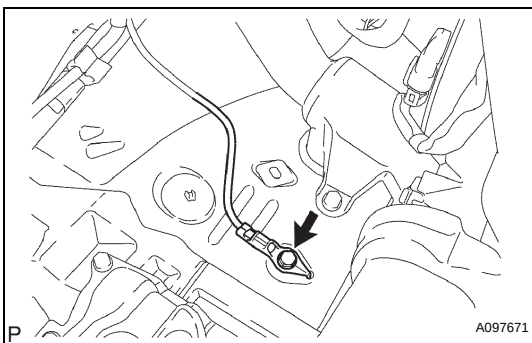
- (g) Remove the bolt, then disconnect the ground terminal.

34. REMOVE FLOOR PANEL BRACE FRONT

- (a) Remove the floor panel brace front (See page [EX-2](#)).

35. REMOVE EXHAUST PIPE ASSEMBLY FRONT

- (a) Remove the exhaust pipe assembly front (See page [EX-2](#)).

36. REMOVE COLUMN HOLE COVER SILENCER SHEET

- 37. SEPARATE STEERING INTERMEDIATE SHAFT**
 - (a) Separate the steering intermediate shaft (See page [SR-6](#)).
- 38. REMOVE FRONT AXLE HUB LH NUT**
 - (a) Remove the front axle hub LH nut (See page [DS-5](#)).
SST 09930-00010
- 39. REMOVE FRONT AXLE HUB RH NUT**
SST 09930-00010
HINT:
Perform the same procedure as above on the opposite side.
- 40. SEPARATE FRONT STABILIZER LINK ASSEMBLY LH**
 - (a) Separate the front stabilizer link assembly LH (See page [DS-5](#)).
- 41. SEPARATE FRONT STABILIZER LINK ASSEMBLY RH**
HINT:
Perform the same procedure as above on the opposite side.
- 42. SEPARATE SPEED SENSOR FRONT LH (w/ ABS)**
 - (a) Separate the speed sensor front (See page [DS-5](#)).
- 43. SEPARATE SPEED SENSOR FRONT RH (w/ ABS)**
HINT:
Perform the same procedure as above on the opposite side.
- 44. SEPARATE TIE ROD END SUB-ASSEMBLY LH**
 - (a) Separate the tie rod end sub-assembly LH (See page [DS-5](#)).
SST 09628-62011
- 45. SEPARATE TIE ROD END SUB-ASSEMBLY RH**
SST 09628-62011
HINT:
Perform the same procedure as above on the opposite side.
- 46. SEPARATE FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO.1 LH**
 - (a) Separate the front suspension arm sub-assembly lower No. 1 LH (See page [DS-5](#)).
- 47. SEPARATE FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO.1 RH**
HINT:
Perform the same procedure as above on the opposite side.
- 48. SEPARATE FRONT AXLE ASSEMBLY LH**
 - (a) Separate the front axle assembly LH (See page [DS-5](#)).

49. SEPARATE FRONT AXLE ASSEMBLY RH

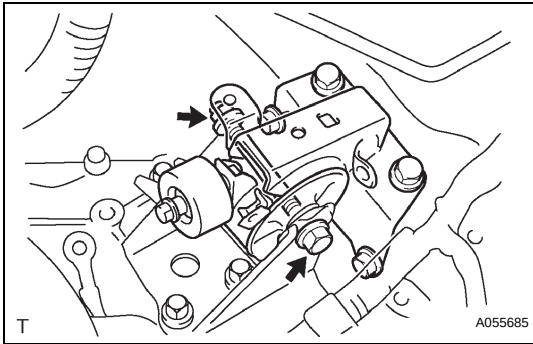
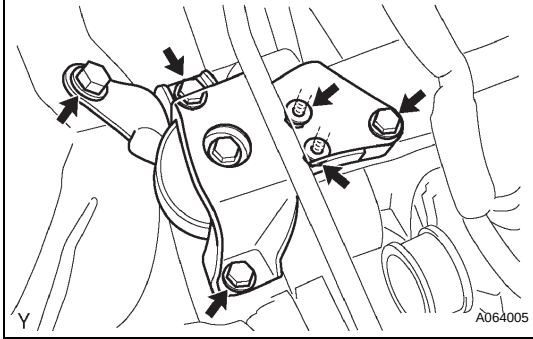
HINT:

Perform the same procedure as above on the opposite side.

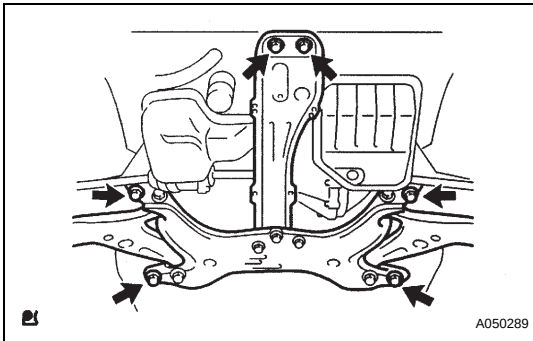
50. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE

(a) Set the engine lifter.

(b) Remove the 4 bolts and 2 nuts, then remove the engine mounting insulator RH.

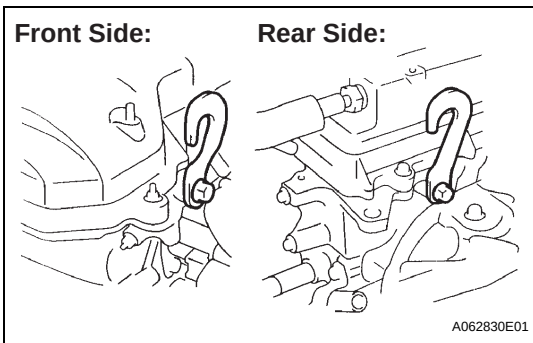


(c) Remove the through bolt and nut, then separate the engine mounting insulator LH.



(d) Remove the 6 bolts as shown in the illustration.

(e) Carefully remove the engine with transaxle from the engine compartment.



(f) Install the engine hanger (12281-22021) with the bolt (91512-B1016 or 90080-10161).

Torque: 38 N*m (387 kgf*cm, 28 ft.*lbf)

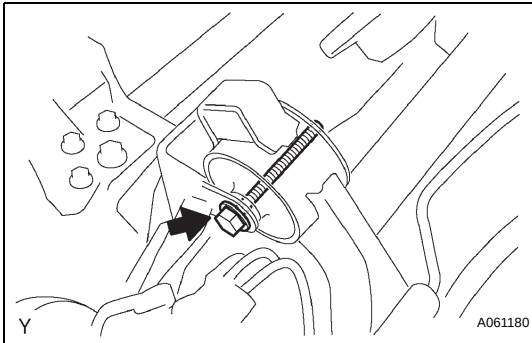
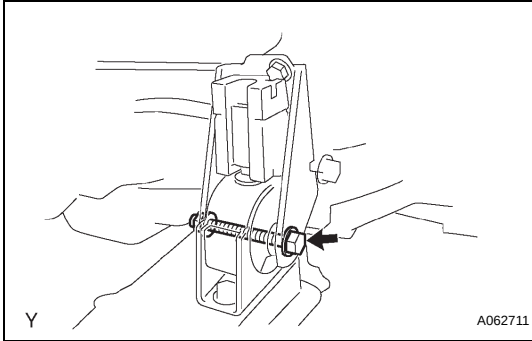
(g) Install the engine hanger (12281-15050) with the bolt (91512-B1016 or 90080-10161).

Torque: 38 N*m (387 kgf*cm, 28 ft.*lbf)

HINT:

Securely install the front engine hanger (12281-22021) and the rear engine hanger (12281-15050) onto the engine assembly.

(h) Attach the engine sling and hang the engine with the chain block.

**51. SEPARATE VANE PUMP ASSEMBLY**

- (a) Separate the vane pump assembly (See page [PS-7](#)).

52. REMOVE FRONT SUSPENSION CROSSMEMBER W/ CENTER MEMBER

- (a) Remove the through bolt and nut, then separate the engine mounting insulator FR from the engine mounting bracket FR.

- (b) Remove the through bolt, then separate the engine mounting insulator RR from the engine mounting bracket RR.

- (c) Separate the engine and transaxle assembly from the suspension crossmember and the engine mounting member.

53. REMOVE STARTER ASSEMBLY

- (a) Remove the starter assembly (See page [ST-5](#)).

54. REMOVE MANUAL TRANSAXLE ASSEMBLY (for Manual Transaxle)

- (a) Remove the manual transaxle assembly (See page [MX-19](#)).

55. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY

- (a) Remove the automatic transaxle assembly (See page [AX-125](#)).

56. REMOVE CLUTCH COVER ASSEMBLY (for Manual Transaxle)

- (a) Remove the clutch cover assembly (See page [MX-19](#)).

57. REMOVE CLUTCH DISC ASSEMBLY (for Manual Transaxle)

- (a) Remove the clutch disc assembly (See page [MX-19](#)).

58. REMOVE FLYWHEEL SUB-ASSEMBLY (for Manual Transaxle)

- (a) Remove the flywheel sub-assembly (See page [EM-72](#)).

SST 09960-10010 (09962-01000, 09963-01000)

59. REMOVE DRIVE PLATE & RING GEAR SUB-ASSEMBLY (for Automatic Transaxle)

- (a) Remove the drive plate & ring gear sub-assembly (See page [EM-72](#)).

SST 09960-10010 (09962-01000, 09963-01000)

60. REMOVE IGNITION COIL ASSEMBLY

- (a) Remove the ignition coil assembly (See page [EM-15](#)).

- 61. REMOVE FUEL DELIVERY PIPE SUB-ASSEMBLY**
(a) Remove the fuel delivery pipe sub-assembly (See page [FU-11](#)).

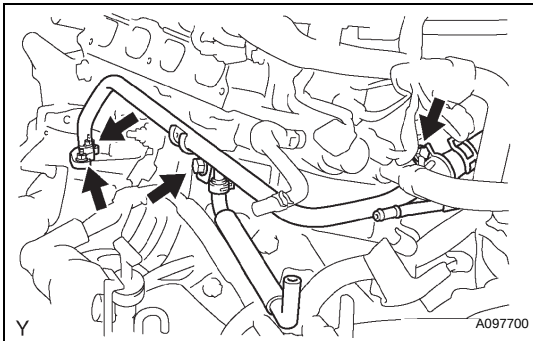
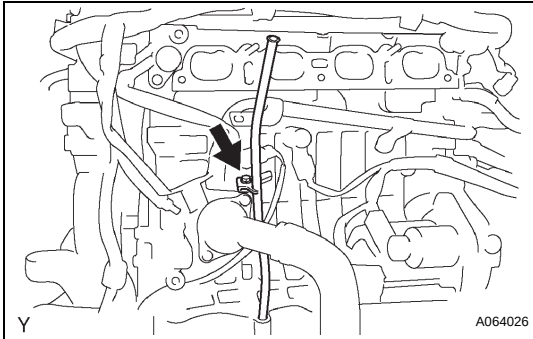
62. REMOVE OIL LEVEL GAGE SUB-ASSEMBLY

63. REMOVE INTAKE MANIFOLD

- (a) Remove the intake manifold (See page [FU-1](#)).

64. REMOVE OIL LEVEL GAGE GUIDE

- (a) Disconnect the crankshaft position sensor clamp.
(b) Remove the bolt, then remove the oil level gage guide.



65. REMOVE WATER BY-PASS PIPE NO.1

- (a) Disconnect the knock sensor clamp.
(b) Remove the 2 bolts and 2 nuts, then remove the water by-pass pipe No. 1.
(c) Remove the gasket from the cylinder block.

66. REMOVE WATER INLET

- (a) Remove the water inlet (See page [CO-12](#)).

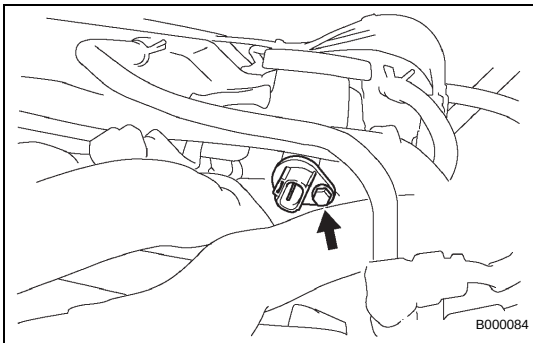
67. REMOVE THERMOSTAT

68. REMOVE ENGINE OIL PRESSURE SWITCH ASSEMBLY

- (a) Remove the engine oil pressure switch assembly (See page [LU-1](#)).

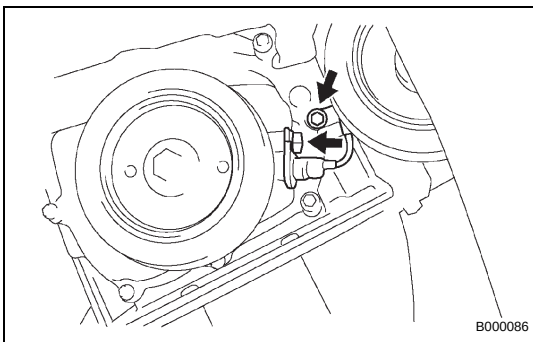
69. REMOVE CAMSHAFT POSITION SENSOR

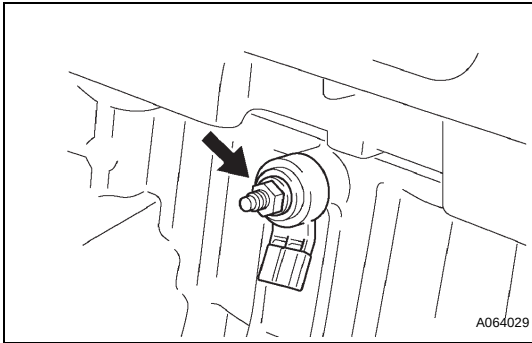
- (a) Remove the bolt, then remove the camshaft position sensor.



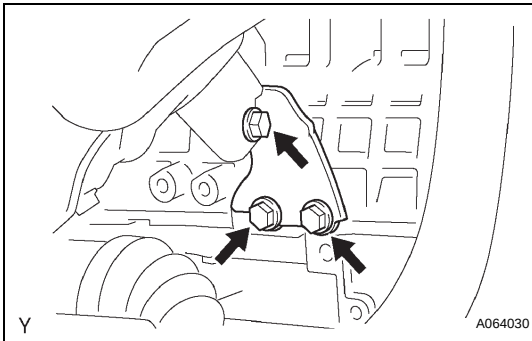
70. REMOVE CRANKSHAFT POSITION SENSOR

- (a) Remove the 2 bolts, then remove the crankshaft position sensor.

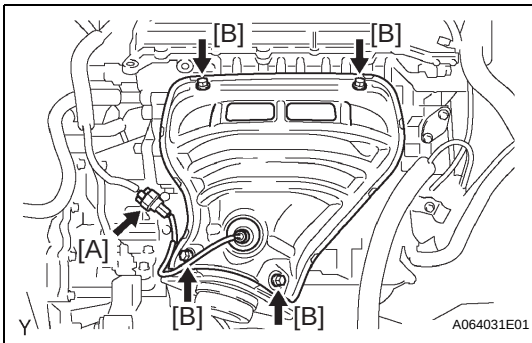


**71. REMOVE KNOCK SENSOR**

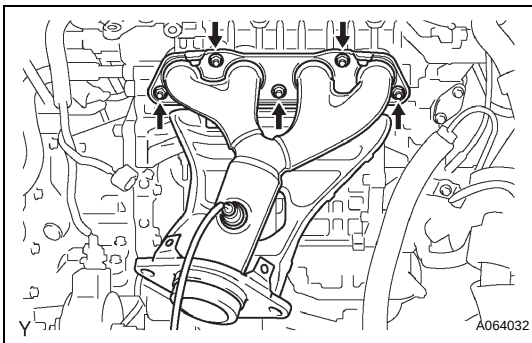
- (a) Remove the nut, then remove the knock sensor.

**72. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY**

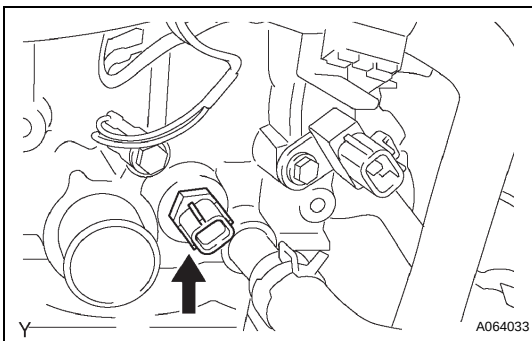
- (a) Remove the V-ribbed belt tensioner assembly (See page [EM-15](#)).

**74. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO.1**

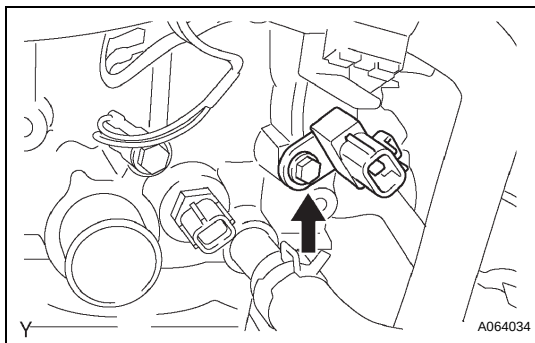
- (a) Disconnect the air fuel ratio sensor connector [A].
(b) Remove the 4 bolts [B], then remove the exhaust manifold heat insulator.

**75. REMOVE EXHAUST MANIFOLD**

- (a) Remove the 5 nuts, then remove the exhaust manifold.
(b) Remove the gasket from the cylinder head.

**76. REMOVE ENGINE COOLANT TEMPERATURE SENSOR**

- (a) Using SST, remove the engine coolant temperature sensor.
SST 09817-33190

**77. REMOVE RADIO SETTING CONDENSER**

(a) Remove the bolt, then remove the condenser.

78. REMOVE WATER BY-PASS HOSE NO.2**79. REMOVE RADIATOR HOSE INLET****80. REMOVE HEATER INLET WATER HOSE****81. REPLACE PARTIAL ENGINE ASSEMBLY**