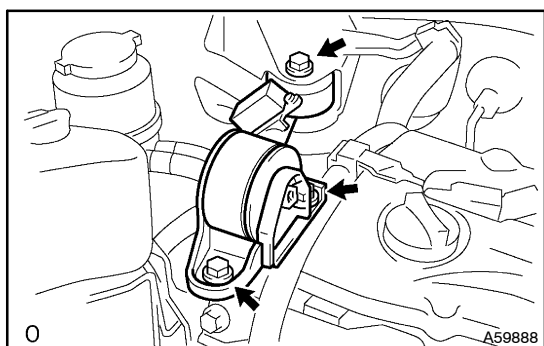


REPLACEMENT

1. WORK FOR PREVENTING GASOLINE FROM SPILLING OUT (See page 11-25)
2. REMOVE FRONT WHEEL
3. REMOVE ENGINE UNDER COVER LH
4. REMOVE ENGINE UNDER COVER RH
5. REMOVE FRONT FENDER APRON SEAL RH
6. DRAIN COOLANT (See page 16-18)
7. DRAIN AUTOMATIC TRANSAXLE FLUID (A/T TRANSAXLE)
 - (a) Using a 10 mm hexagon wrench, remove the drain plug and a gasket. Drain automatic transaxle fluid.
 - (b) Install a new gasket and the drain plug.

Torque: 49 N·m (500 kgf·cm, 36 ft·lb)
8. DRAIN MANUAL TRANSAXLE OIL (M/T TRANSAXLE)
 - (a) Install a new gasket and the drain plug after draining transaxle oil.

Torque: 49 N·m (500 kgf·cm, 36 ft·lb)
9. REMOVE BATTERY
10. REMOVE AIR CLEANER ASSY
11. REMOVE ENGINE COVER SUB-ASSY NO.1
12. DISCONNECT RADIATOR HOSE INLET
13. DISCONNECT RADIATOR HOSE OUTLET
14. DISCONNECT OIL COOLER INLET HOSE (A/T TRANSAXLE)
15. DISCONNECT OIL COOLER OUTLET HOSE (A/T TRANSAXLE)



16. REMOVE ENGINE MOVING CONTROL ROD W/BACKET

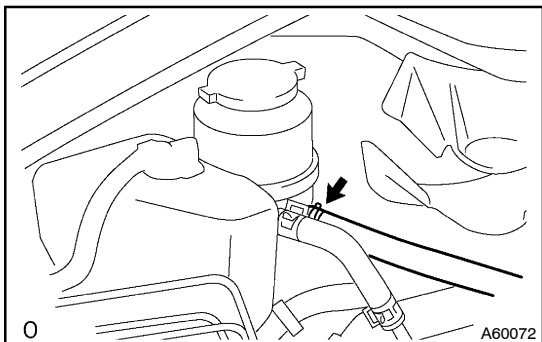
- (a) Remove the 3 bolts and the engine moving control rod w/ bracket.

17. REMOVE ENGINE MOUNTING STAY NO.2 RH
18. REMOVE ENGINE MOUNTING BRACKET NO.2 RH

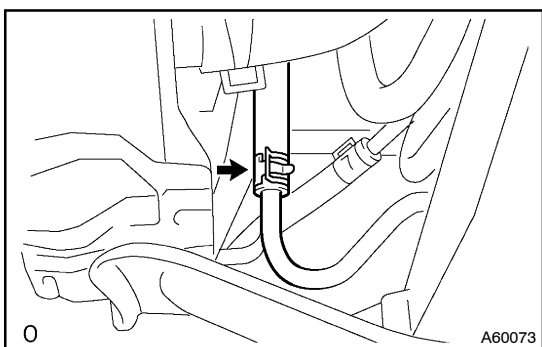
19. REMOVE FAN AND GENERATOR V-BELT

(See page 14-70)

SST 09249-63010

**20. DISCONNECT OIL RESERVOIR TO PUMP HOSE NO.1**

- (a) Remove the clip and disconnect the hose.

**21. DISCONNECT RETURN TUBE SUB-ASSY**

- (a) Remove the clip and disconnect the return tube.

22. DISCONNECT UNION TO CONNECTOR TUBE HOSE**23. DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (A/T TRANSAXLE)**

(See page 40-3)

24. DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (M/T TRANSAXLE)**25. DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SELECT (M/T TRANSAXLE)****26. REMOVE CLUTCH RELEASE CYLINDER ASSY (M/T TRANSAXLE)**

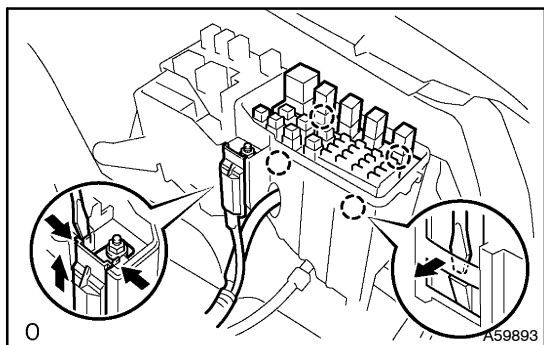
- (a) Remove the bolt and flexible hose.
 (b) Remove the 2 bolts and clutch release cylinder.

27. DISCONNECT HEATER INLET WATER HOSE**28. DISCONNECT HEATER OUTLET WATER HOSE****29. DISCONNECT FUEL TUBE SUB-ASSY**

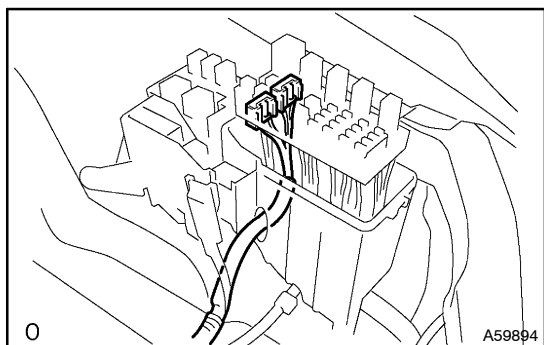
(See page 11-25)

30. DISCONNECT ENGINE WIRE

- (a) Disconnect the engine wire from engine ECU and junction block.
 (b) Disconnect the engine wire from engine room junction block.



- (1) Remove the nut fixing the wire harness.
- (2) Using a screwdriver, unlock the engine room junction block. Disconnect the engine wire by pulling it upward.



- (3) Disconnect the connectors.
- (c) Pull out the engine wire.
- (d) Disconnect the B terminal of the generator.
- (e) Remove the body ground.
- (f) Remove the starter connector.

31. DISCONNECT ENGINE WIRE NO.2

- (a) Remove the nut and disconnect the terminal 30 of the starter.

32. REMOVE GENERATOR ASSY

33. REMOVE COMPRESSOR AND MAGNETIC CLUTCH

HINT:

Hang up the hoses instead of detaching.

34. REMOVE EXHAUST PIPE ASSY FRONT

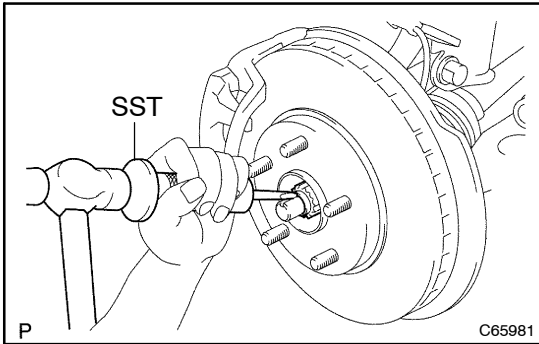
35. REMOVE FRONT STABILIZER LINK ASSY LH

- (a) Using a 6 mm socket hexagon wrench to fix the stud bolt.
- (b) Remove the nut and the stabilizer bar link.

36. REMOVE FRONT STABILIZER LINK ASSY RH

HINT:

Perform the same procedure as above on the opposite side.



37. REMOVE FRONT AXLE HUB LH NUT

- (a) Using SST and a hammer, unstake the staked part of the lock nut.

SST 09930-00010

NOTICE:

- When removing the nut, unstake the staked part of it completely.
 - Do not damage the threads of the drive shaft.
 - Be sure not to sharpen the tip of the SST.
 - Set the SST to the groove with the flat face upward.
- (b) Using a 30 mm socket wrench, remove the lock nut.

38. REMOVE FRONT AXLE HUB RH NUT

SST 09930-00010

HINT:

Perform the same procedure as above on the opposite side.

39. REMOVE SPEED SENSOR FRONT LH

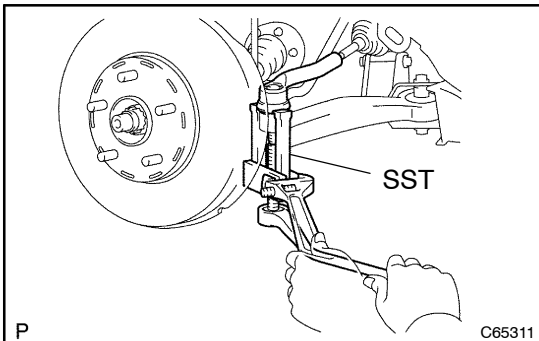
NOTICE:

Keep the tip and connection part of speed sensor off foreign materials.

40. REMOVE SPEED SENSOR FRONT RH

HINT:

Perform the same procedure as above on the opposite side.



41. DISCONNECT TIE ROD ASSY LH

- (a) Remove the cotter pin and a castle nut.
- (b) Using SST, disconnect the tie rod end from the steering knuckle.

SST 09628-62011

NOTICE:

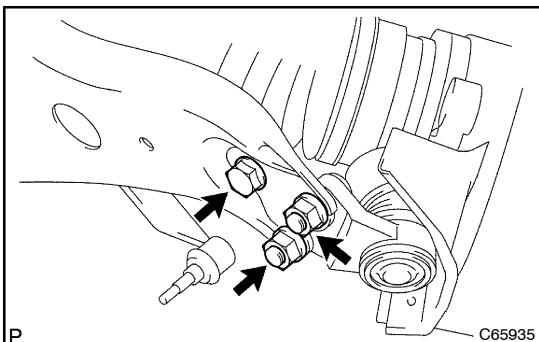
Be careful not to damage the cover of the ball joint.

42. DISCONNECT TIE ROD ASSY RH

SST 09628-62011

HINT:

Perform the same procedure as above on the opposite side.

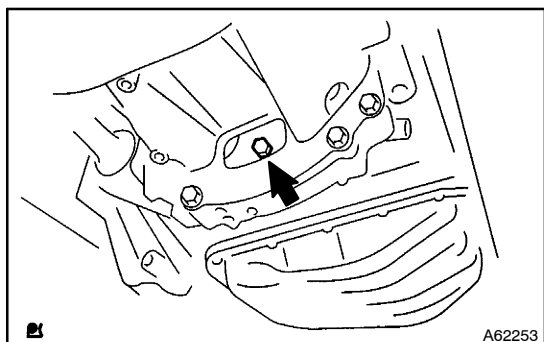


43. DISCONNECT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

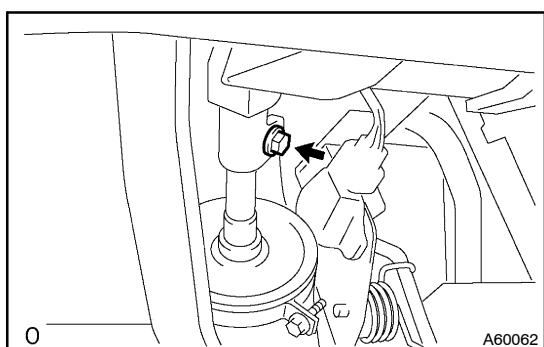
- (a) Remove the bolt and 2 nuts shown in the illustration.
- (b) Using a plastic hammer, disconnect the drive shaft from the axle hub.

44. DISCONNECT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 RH**HINT:**

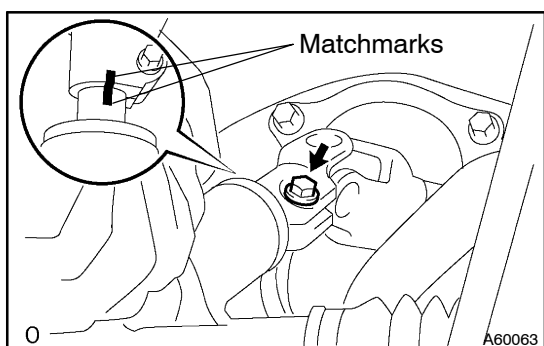
Perform the same procedure as above on the opposite side.

**45. REMOVE DRIVE PLATE & TORQUE CONVERTER CLUTCH SETTING BOLT(A/T TRANSAXLE)**

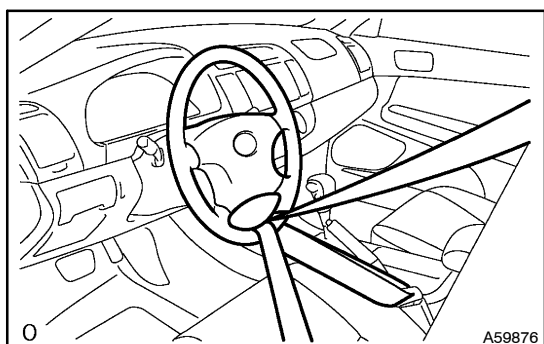
- (a) Fix the crankshaft and remove the 6 set bolts.

**46. REMOVE STEERING INTERMEDIATE SHAFT SUB-ASSY**

- (a) Loosen the sliding yoke bolt.



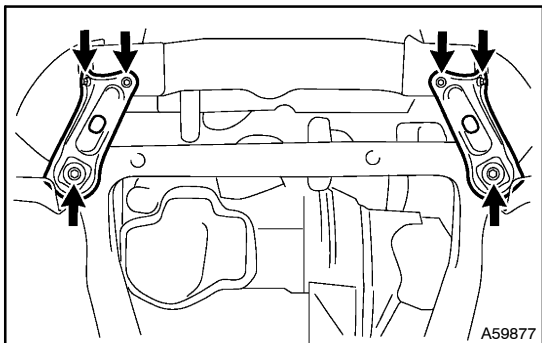
- (b) Place matchmarks on the intermediate shaft and control valve shaft.
(c) Remove the bolt, and the steering intermediate shaft.



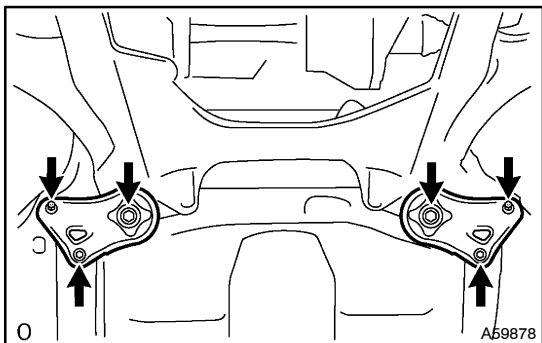
- (d) To prevent from rotating the steering wheel, fix the wheel with seat belt.

HINT:

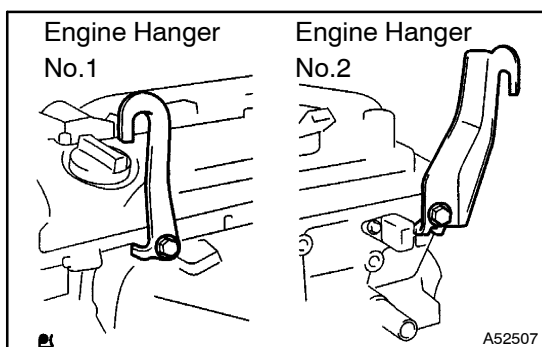
The operation is useful to prevent the damage of the spiral cable.

**47. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE**

- (a) Set the engine lifter.
- (b) Remove the 4 bolts, 2 nuts and frame side rail plate sub-assembly RH and LH.



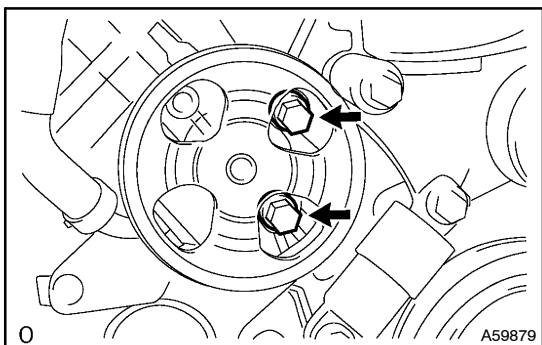
- (c) Remove the 4 bolts, 2 nuts and front suspension member brace rear RH and LH.
- (d) Carefully, remove the engine assembly from the vehicle.



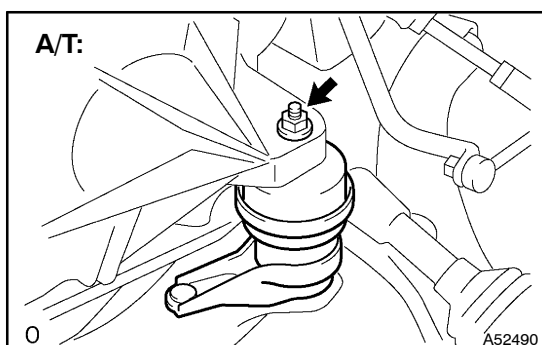
- (e) Install the 2 engine hangers as shown in the illustration.

Parts No. :**No. 1 engine hanger 12281-28010****No. 2 engine hanger 12282-28010****Bolt 91512-61020****Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)**

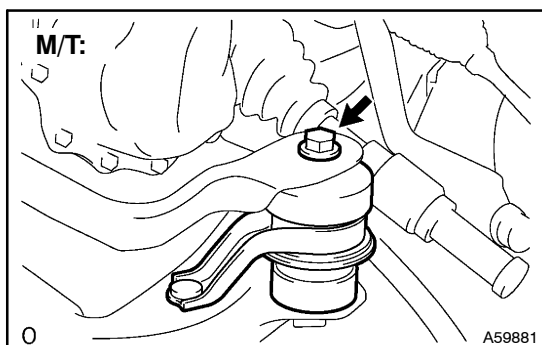
- (f) Using the chain block and engine sling device, hang the engine assembly.

**48. REMOVE VANE PUMP ASSY**

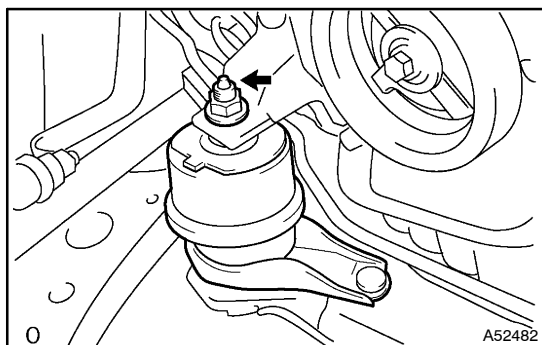
- (a) Disconnect the PS oil pressure switch connector.
- (b) Remove the 2 bolts and the vane pump from the engine.

**49. REMOVE FRONT FRAME ASSY**

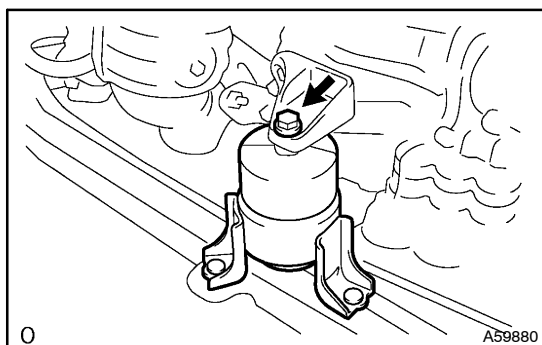
- (a) Remove a nut installing the engine mounting insulator LH (A/T).



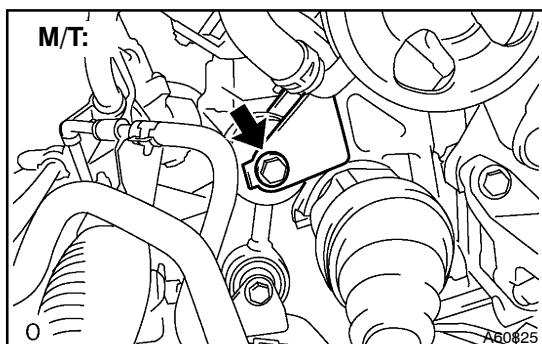
(b) Remove a bolt installing the engine mounting insulator LH (M/T).



(c) Remove a nut installing the engine mounting insulator RH.



(d) Remove a bolt installing the engine mounting insulator FR.



(e) Remove the bolt installing the engine lateral control rod (M/T).

(f) Raise the engine assembly and separate the front frame.

50. REMOVE FRONT DRIVE SHAFT ASSY LH

(See page 30-8)

51. REMOVE FRONT DRIVE SHAFT ASSY RH

(See page 30-8)

52. REMOVE STARTER ASSY

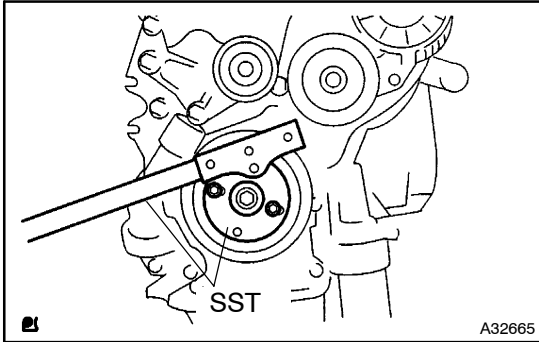
(See page 19-10)

53. SEPARATE AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE)

(See page 40-14)

54. SEPARATE MANUAL TRANSAXLE ASSY (M/T TRANSAXLE)

(See page 41-11)



55. REMOVE DRIVE PLATE & RING GEAR SUB-ASSY(A/T TRANSAXLE)

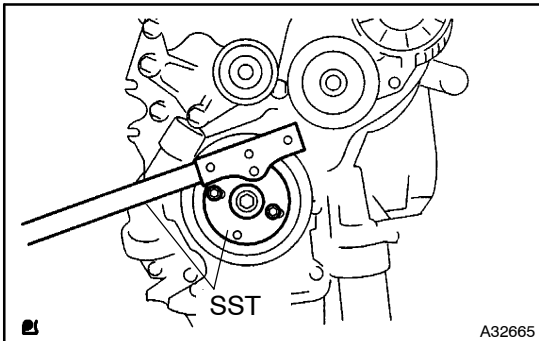
- Fix the crankshaft with SST.
SST 09213-54015 (91651-60855), 09330-00021
- Remove the 8 bolts, rear spacer, drive plate and front spacer.

56. REMOVE CLUTCH COVER ASSY(M/T TRANSAXLE)

(See page 42-15)

57. REMOVE CLUTCH DISC ASSY(M/T TRANSAXLE)

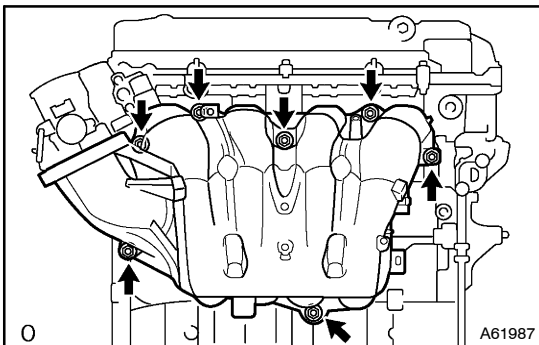
(See page 42-15)



58. REMOVE FLYWHEEL SUB-ASSY(M/T TRANSAXLE)

- Fix the crankshaft with SST.
SST 09213-54015 (91651-60855), 09330-00021
- Remove the 8 bolts, rear spacer, flywheel sub-assy.

59. INSTALL ENGINE STAND



60. REMOVE INTAKE MANIFOLD

- Remove the 5 bolts, 2 nuts, intake manifold and gasket.

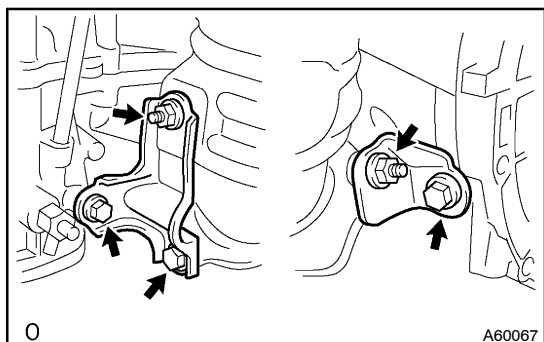
61. REMOVE VENTILATION HOSE

62. REMOVE VENTILATION HOSE NO.2

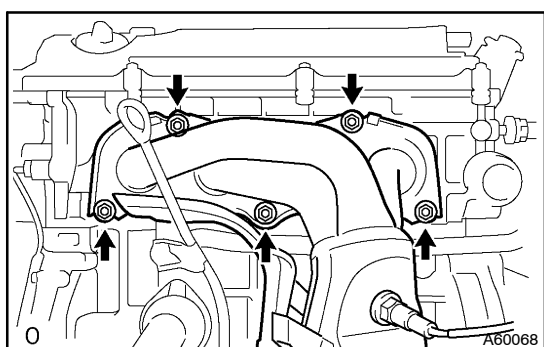
63. REMOVE ENGINE WIRE

64. REMOVE INTAKE MANIFOLD INSULATOR NO.1

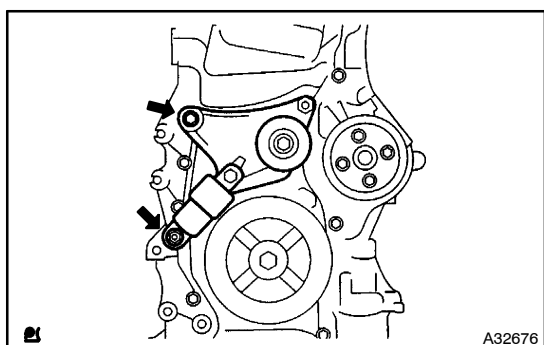
65. REMOVE OIL LEVEL GAGE SUB-ASSY

66. REMOVE OIL LEVEL GAGE GUIDE**67. REMOVE MANIFOLD CONVERTER INSULATOR NO.1****68. REMOVE EXHAUST MANIFOLD CONVERTER SUB-ASSY**

(a) Remove the 3 bolts, 2 nuts No. 1 and No. 2 exhaust manifold stay.

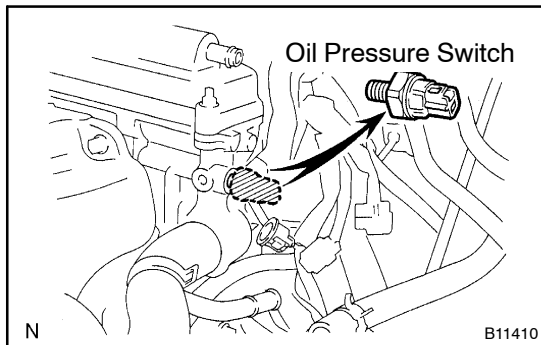


(b) Remove the 5 nuts, exhaust manifold converter and gasket.

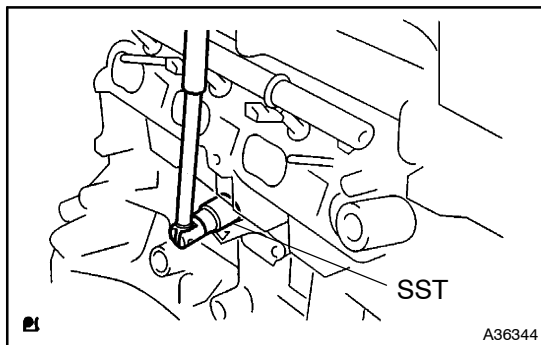
69. REMOVE WATER INLET**70. REMOVE THERMOSTAT****71. REMOVE IGNITION COIL ASSY****72. REMOVE V-RIBBED BELT TENSIONER ASSY**

(a) Remove the bolt, nut and the drive belt tensioner.

73. REMOVE DRIVE SHAFT BEARING BRACKET**74. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET****75. REMOVE FUEL DELIVERY PIPE W/INJECTOR (See page 1-35)****76. REMOVE WATER BY-PASS PIPE NO.1**

77. REMOVE OIL COOLER PIPE(W/ OIL COOLER)**78. REMOVE OIL COOLER HOSE(W/ OIL COOLER)****79. REMOVE OIL COOLER HOSE(W/ OIL COOLER)****80. REMOVE ENGINE OIL PRESSURE SWITCH ASSY**

- (a) Remove the oil pressure switch.

**81. REMOVE KNOCK CONTROL SENSOR**

- (a) Using SST, remove the knock control sensor.
SST 09816-30010

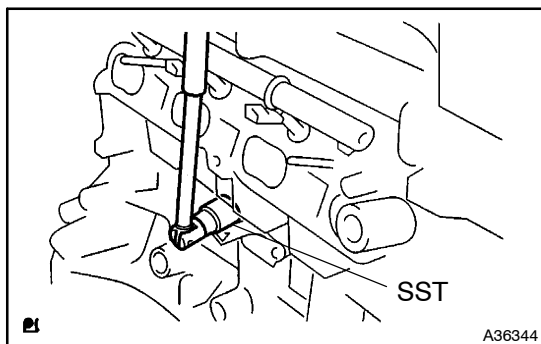
82. REMOVE E.F.I. ENGINE COOLANT TEMPERATURE SENSOR

- (a) Remove the water temperature sensor.

83. REPLACE PARTIAL ENGINE ASSY**84. INSTALL E.F.I. ENGINE COOLANT TEMPERATURE SENSOR**

- (a) Install a new gasket to the water temperature sensor.
(b) Install the water temperature sensor.

Torque: 20 N·m (208 kgf·cm, 15 ft·lbf)

**85. INSTALL KNOCK CONTROL SENSOR**

- (a) Using SST, install the knock control sensor.
SST 09816-30010

Torque: 39 N·m (398 kgf·cm, 29 ft·lbf)

86. INSTALL ENGINE OIL PRESSURE SWITCH ASSY

- (a) Clean the threads of the oil pressure switch, apply adhesive there.
Adhesive: Part No. 08833-00080 THREE BOND 1344 or equivalent

- (b) Install the oil pressure switch.
Torque: 15 N·m (153 kgf·cm, 11 ft·lbf)

87. INSTALL OIL COOLER HOSE (W/OIL COOLER)**88. INSTALL OIL COOLER HOSE (W/OIL COOLER)****89. INSTALL OIL COOLER PIPE (W/OIL COOLER)****90. INSTALL WATER BY-PASS PIPE NO.1**

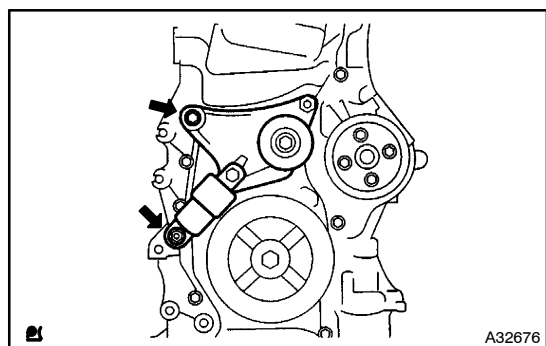
- (a) Install a new gasket and the water by-pass pipe No. 1 with the bolt and 2 nuts.
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

91. INSTALL FUEL DELIVERY PIPE W/INJECTOR (See page 11-35)**92. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET**

Torque: 54 N·m (551 kgf·cm, 40 ft·lbf)

93. DRIVE SHAFT BEARING BRACKET

Torque: 64 N·m (653 kgf·cm, 47 ft·lbf)

**94. INSTALL V-RIBBED BELT TENSIONER ASSY**

- (a) Install the drive belt tensioner with the bolt and the nut.
Torque: 59.5 N·m (607 kgf·cm, 44 ft·lbf)

95. INSTALL IGNITION COIL ASSY

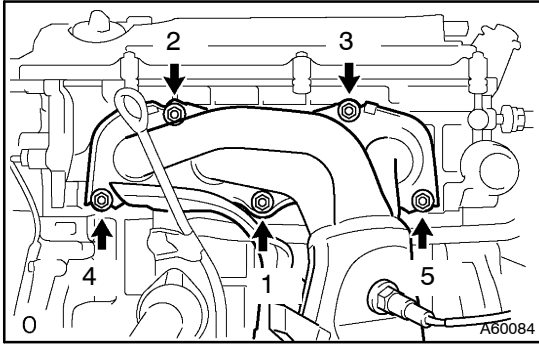
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

96. INSTALL THERMOSTAT

(See page 6-22)

97. INSTALL WATER INLET

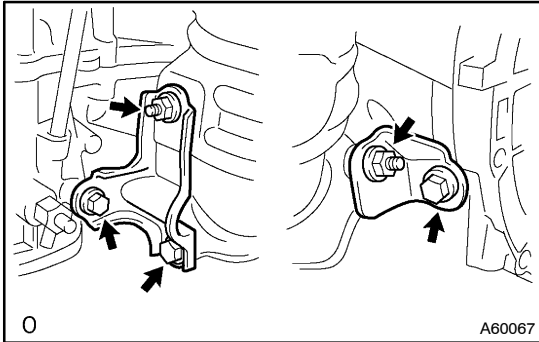
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)



98. INSTALL EXHAUST MANIFOLD CONVERTER SUB-ASSY

- (a) Install a new gasket and the exhaust manifold converter with the 5 nuts.

Torque: 37 N·m (378 kgf·cm, 27 ft·lbf)



- (b) Install the No. 1 and No. 2 exhaust manifold stay with the 3 bolts and 2 nuts.

Torque: 44 N·m (449 kgf·cm, 32 ft·lbf)

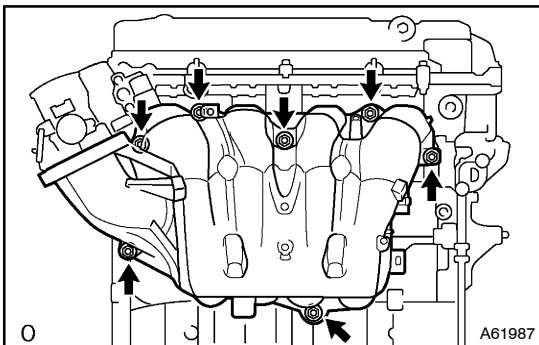
99. INSTALL MANIFOLD CONVERTER INSULATOR NO.1

Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

100. INSTALL OIL LEVEL GAGE GUIDE

- (a) Apply a light coat of engine oil to the O-ring, install it to the guide.
 (b) Install the oil level gauge and guide with the bolt.

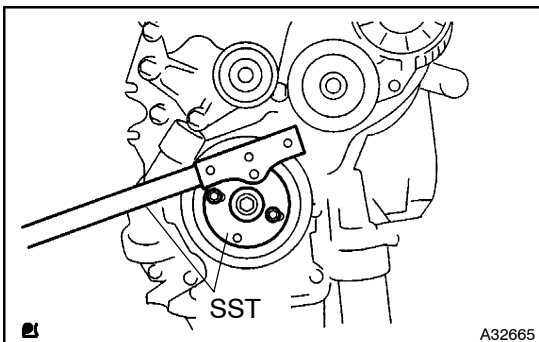
Torque: 9.0 N·m (92 kgf·cm, 80 in·lbf)



101. INSTALL INTAKE MANIFOLD

- (a) Install a new gasket and the intake manifold with the 5 bolts and 2 nuts.

Torque: 30 N·m (306 kgf·cm, 22 ft·lbf)

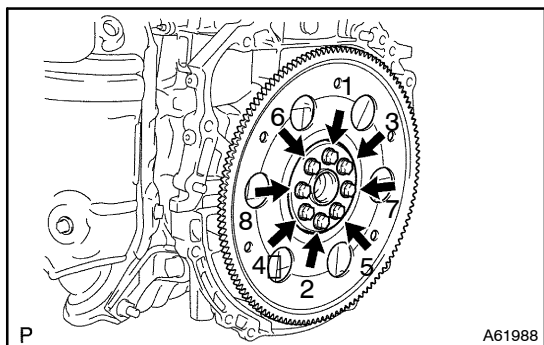


102. INSTALL DRIVE PLATE & RING GEAR SUB-ASSY(A/T TRANSAXLE)

- (a) Fix the crankshaft with SST.
 SST 09213-54015 (91651-60855), 09330-00021
 (b) Clean the bolt and the bolt hole.
 (c) Apply Adhesive to 2 or in·lbf 3 threads of the bolt end.

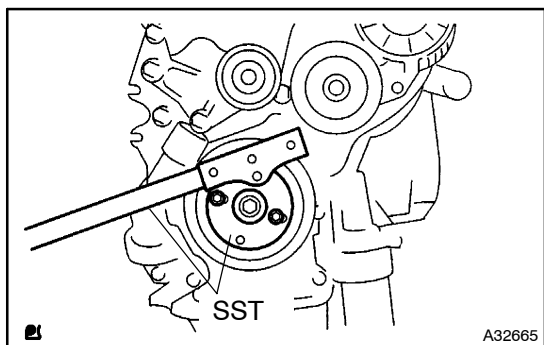
Adhesive:

Part No. 08833-00070, THREE BOND or equivalent.



- (d) Install and uniformly tighten the 8 bolts, in several passes, in the sequence shown.

Torque: 98 N·m (1,000 kgf·cm, 72 ft·lbf)

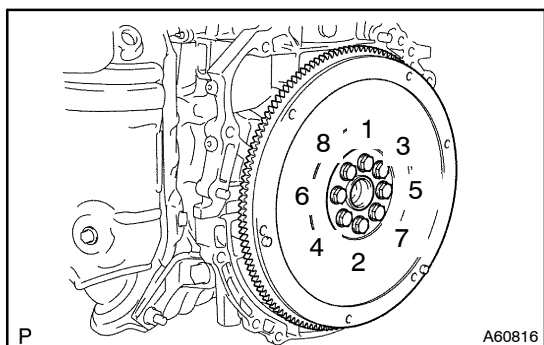


103. INSTALL FLYWHEEL SUB-ASSY (M/T TRANSAXLE)

- (a) Fix the crankshaft with SST.
SST 09213-54015 (91651-60855), 09330-00021
(b) Clean the bolt and the bolt hole.
(c) Apply Adhesive to 2 or 3 threads of the bolt end.

Adhesive:

Part No. 08833-00070, THREE BOND or equivalent.



- (d) Install and uniformly tighten the 8 bolts, in several passes, in the sequence shown.

Torque: 130 N·m (1,330 kgf·cm, 96 ft·lbf)

104. INSTALL CLUTCH DISC ASSY (M/T TRANSAXLE)

(See page 42-15)

105. INSTALL CLUTCH COVER ASSY (M/T TRANSAXLE)

(See page 42-15)

106. INSTALL AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE)

(See page 40-14)

107. INSTALL MANUAL TRANSAXLE ASSY (M/T TRANSAXLE)

(See page 41-11)

108. INSTALL STARTER ASSY

(See page 9-10)

Torque: 39 N·m (398 kgf·cm, 29 ft·lbf)

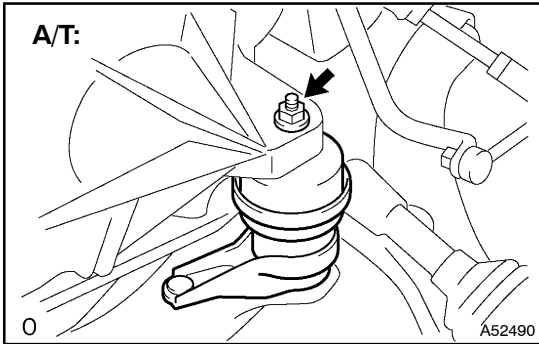
109. INSTALL FRONT DRIVE SHAFT ASSY RH

(See page 30-8)

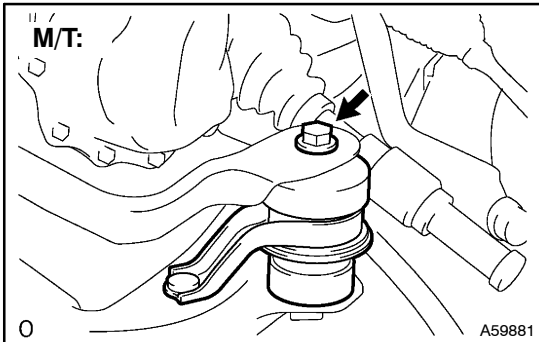
110. INSTALL FRONT DRIVE SHAFT ASSY LH

(See page 30-8)

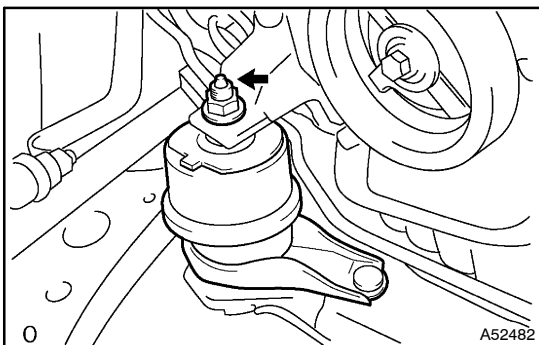
111. INSTALL FRONT FRAME ASSY



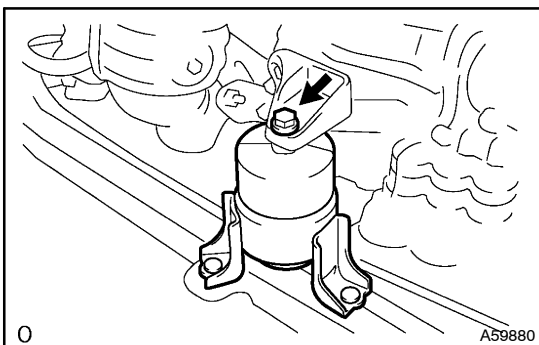
- (a) Install the engine mounting insulator LH with a nut (A/T).
Torque: 95 N·m (969 kgf·cm, 70 ft·lbf)



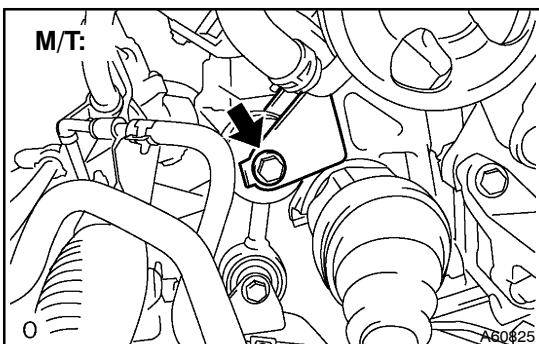
- (b) Install the engine mounting insulator LH with a bolt (M/T).
Torque: 143 N·m (1,459 kgf·cm, 106 ft·lbf)



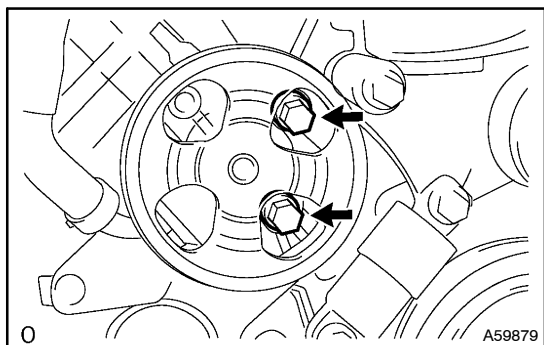
- (c) Install the engine mounting insulator RH with a nut.
Torque: 95 N·m (969 kgf·cm, 70 ft·lbf)



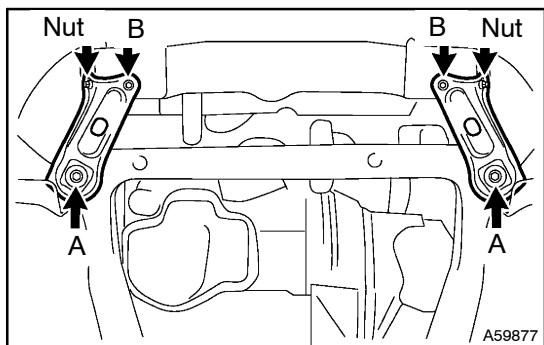
- (d) Install the engine mounting insulator FR with a bolt.
Torque: 87 N·m (888 kgf·cm, 64 ft·lbf)



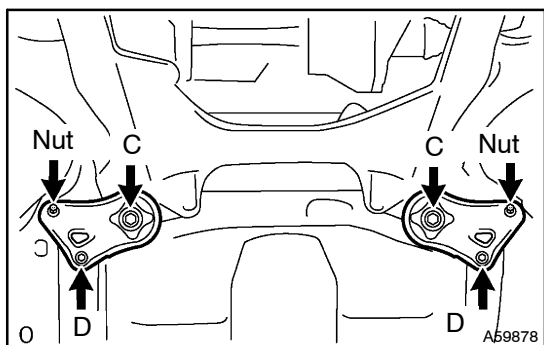
- (e) Install the engine lateral control rod with the bolt (M/T).
Torque: 89 N·m (910 kgf·cm, 69 ft·lbf)

**112. INSTALL VANE PUMP ASSY**

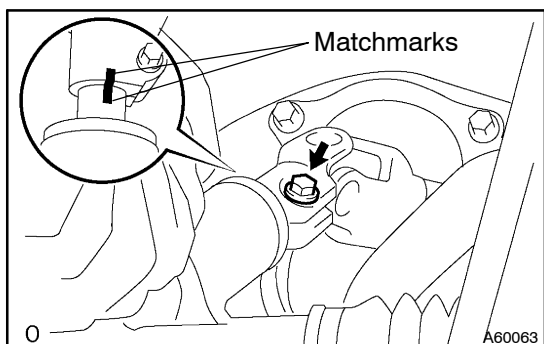
- (a) Connect the vane pump to the engine with the 2 bolts.
Torque: 43 N·m (439 kgf·cm, 31 ft·lbf)

**113. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE**

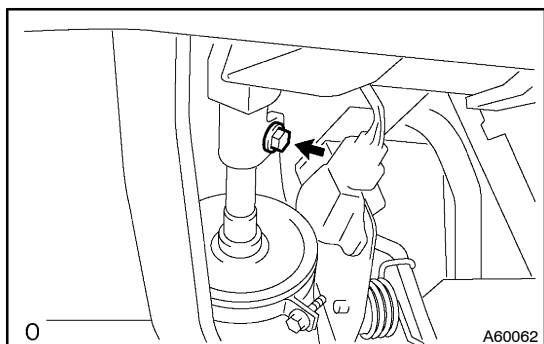
- (a) Set the engine assembly with transaxle on the engine lifter.
 (b) Install the engine assembly to the vehicle.
 (c) Install the frame side plate LH and RH with 4 bolts and 2 nuts.

Torque:**Bolt A 85N·m (867 kgf·cm, 63 ft·lbf)****Bolt B, Nut 32 N·m (326 kgf·cm, 24 ft·lbf)**

- (d) Install the front suspension member brace rear RH and LH with 4 bolts and 2 nuts.

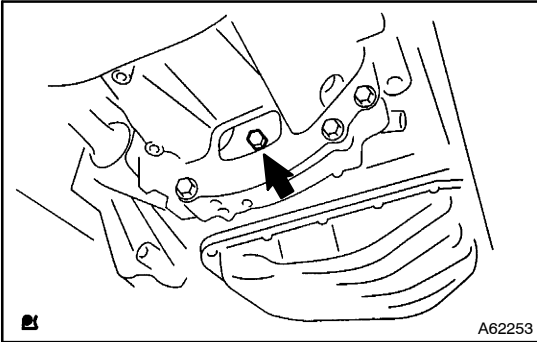
Torque:**Bolt C 85N·m (867 kgf·cm, 63 ft·lbf)****Bolt D, Nut 32 N·m (326 kgf·cm, 24 ft·lbf)****114. INSTALL STEERING INTERMEDIATE SHAFT SUB-ASSY**

- (a) Align the matchmarks on the intermediate shaft and control valve shaft.

Torque: 35 N·m (357 kgf·cm, 26 ft·lbf)

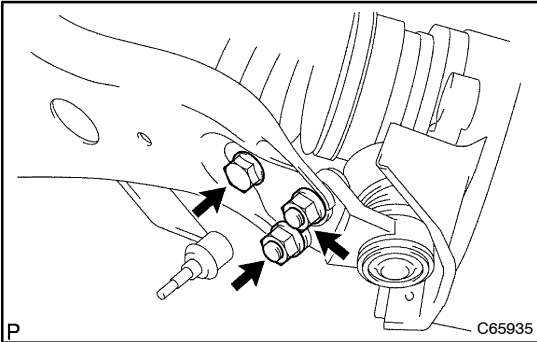
- (b) Tighten the bolt.

Torque: 35 N·m (357 kgf·cm, 26 ft·lbf)



115. INSTALL DRIVE PLATE & TORQUE CONVERTER CLUTCH SETTING BOLT(A/T TRANSAXLE)

- (a) Fix the crank shaft, and install the 6 set bolts.
Torque: 41 N·m (418 kgf·cm, 30 ft·lbf)



116. INSTALL FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

- (a) Install the drive shaft to steering knuckle.
 (b) Install the suspension lower arm with the bolt and the 2 nuts.
Torque: 127 N·m (1,296 kgf·cm, 94 ft·lbf)

117. INSTALL FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 RH

HINT:

Perform the same procedure as above on the opposite side.

118. INSTALL TIE ROD ASSY LH

- (a) Connect the tie rod end to the steering knuckle and install a new castle nut.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

NOTICE:

- Prevent any lubricant from the thread and the taper portions.
 - After tightening the castle nut, tighten it to the additional direction within 60° to put into a cotter pin.
- (b) Insert a new cotter pin.

119. INSTALL TIE ROD ASSY RH

HINT:

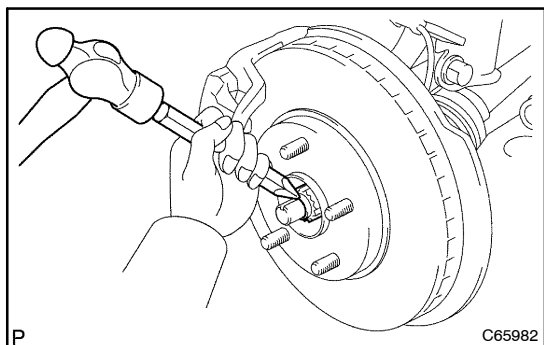
Perform the same procedure as above on the opposite side.

120. INSTALL SPEED SENSOR FRONT LH

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

121. INSTALL SPEED SENSOR FRONT RH

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

**122. INSTALL FRONT AXLE HUB LH NUT**

- (a) Using a 30mm socket wrench, install a new hub nut.
Torque: 294 N·m (3,000 kgf·cm, 217 ft·lbf)
- (b) Using a chisel, stake the hub nut.

123. INSTALL FRONT AXLE HUB RH NUT

HINT:

Perform the same procedure as above on the opposite side.

124. INSTALL FRONT STABILIZER LINK ASSY LH

- (a) Install the nut by using a 5mm socket hexagon wrench to fix the stud bolt.
Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)

125. INSTALL FRONT STABILIZER LINK ASSY RH

HINT:

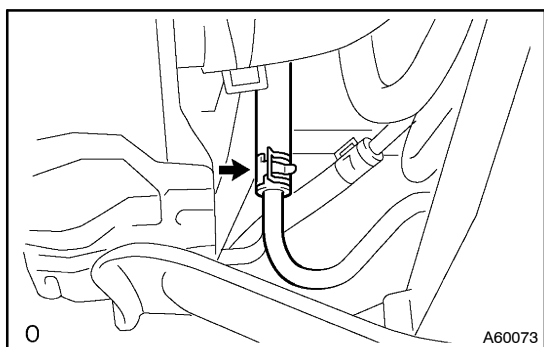
Perform the same procedure as above on the opposite side.

126. INSTALL EXHAUST PIPE ASSY FRONT

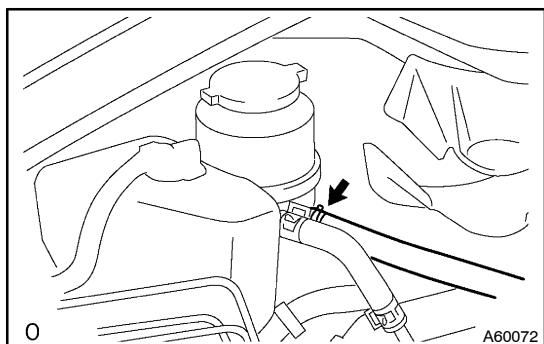
(See page 5-5)

127. CONNECT FUEL TUBE SUB-ASSY

(See page 1-25)

**128. INSTALL RETURN TUBE SUB-ASSY**

- (a) Install the return tube.

**129. INSTALL OIL RESERVOIR TO PUMP HOSE NO.1**

- (a) Install the hose No. 1.

130. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (See page 55-59)**131. INSTALL GENERATOR ASSY**

(See page 9-14)

132. INSTALL FAN AND GENERATOR V-BELT

(See page 4-70)

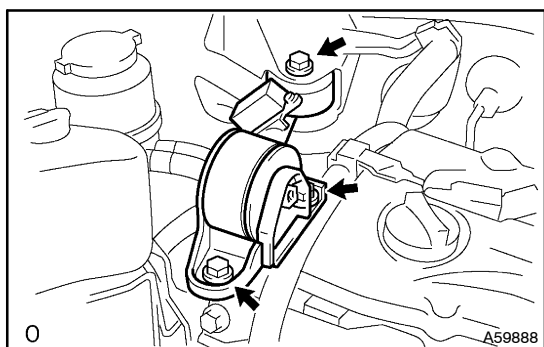
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133. INSTALL ENGINE MOUNTING BRACKET NO.2 RH

Torque: 52 N·m (531 kgf·cm, 38 ft·lbf)

134. INSTALL ENGINE MOUNTING STAY NO.2 RH

Torque: 64 N·m (653 kgf·cm, 47 ft·lbf)

**135. INSTALL ENGINE MOVING CONTROL ROD W/BACKET**

- (a) Install the engine mounting control rod w/bracket with 3 bolts.

Torque: 64 N·m (653 kgf·cm, 47 ft·lbf)

136. INSTALL AIR CLEANER ASSY

Torque: 5.0 N·m (51 kgf·cm, 44 in.·lbf)

137. ADD AUTOMATIC TRANSAXLE FLUID (A/T TRANSAXLE)**138. MANUAL TRANSAXLE OIL (M/T TRANSAXLE)****139. ADD ENGINE OIL****140. ADD COOLANT (See page 16-18)****141. ADD POWER STEERING FLUID****142. BLEED POWER STEERING FLUID****143. INSPECT OIL LEAK****144. CHECK ENGINE COOLANT LEAK (See page 16-18)****145. INSPECT FUEL LEAK (See page 11-25)****146. INSTALL FRONT WHEEL**

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

147. ADJUST FRONT WHEEL ALIGNMENT (See page 26-4)**148. INSPECT CHECK IDLE SPEED AND IGNITION TIMING (See page 4-66)****149. INSPECT CO/HC (See page 4-66)****150. CHECK ABS SPEED SENSOR SIGNAL (See page 05-451 or 05-511)**