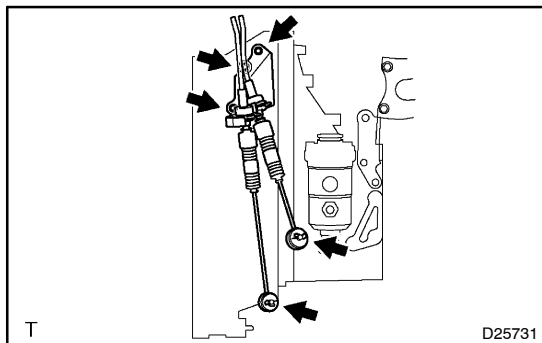


REPLACEMENT

1. REMOVE FRONT WHEEL
2. REMOVE ENGINE UNDER COVER RH
3. REMOVE ENGINE UNDER COVER LH
4. DRAIN COOLANT (See page 16-19)
5. DRAIN ENGINE OIL (See page 14-141)
6. DRAIN MANUAL TRANSAXLE OIL
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)
7. REMOVE BATTERY
8. REMOVE AIR CLEANER ASSY
9. REMOVE AIR TUBE NO.1
(See page 13-6)
10. REMOVE RADIATOR RESERVE TANK ASSY
 - (a) Disconnect the 2 water by-pass hoses.
 - (b) Remove the 2 bolts and reserve tank.
11. REMOVE RADIATOR HOSE INLET
12. REMOVE RADIATOR HOSE OUTLET
13. REMOVE RADIATOR SUPPORT SUB-ASSY UPPER(W/ AIR CONDITIONER)
14. REMOVE RADIATOR ASSY(W/ AIR CONDITIONER)
15. REMOVE HOOD SUB-ASSY
16. REMOVE FRONT WIPER ARM HEAD CAP
17. REMOVE FR WIPER ARM LH
(See page 16-9)
18. REMOVE FRONT WIPER ARM HEAD CAP
19. REMOVE FR WIPER ARM RH
(See page 16-9)
20. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY
(See page 16-9)
21. REMOVE WIPER LINK ASSY
(See page 16-9)
22. REMOVE COWL TOP PANEL SUB-ASSY OUTER
 - (a) Remove the 7 bolts and cowl top panel outer.
23. REMOVE ENGINE COVER SUB-ASSY NO.1
 - (a) Remove the 4 nuts and engine cover.
24. SEPARATE HEATER WATER INLET HOSE A

25. SEPARATE HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)**26. SEPARATE INJECTION PUMP TO FUEL PIPE FUEL HOSE****27. SEPARATE UNION TO CHECK VALVE HOSE****28. SEPARATE AIR TUBE NO.2****29. SEPARATE FLOOR SHIFT TRANSMISSION CONTROL CABLE ASSY**

- (a) Remove the 2 clips, 2 washers and 3 bolts and separate the control cable assy with bracket.

30. SEPARATE ENGINE WIRE

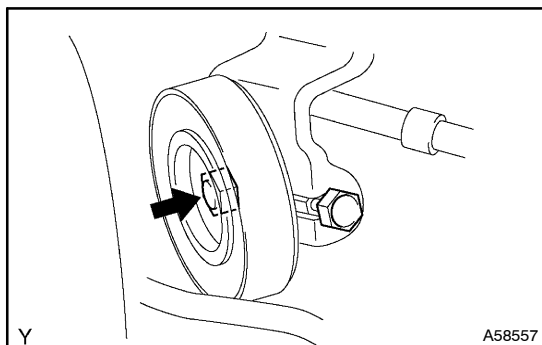
- (a) Remove the glove compartment door.
 (b) Disconnect the engine wire from engine ECU and junction block.
 (c) Pull out engine wire.
 (d) Disconnect the engine wire from engine room junction block.

31. REMOVE CLUTCH RELEASE CYLINDER ASSY

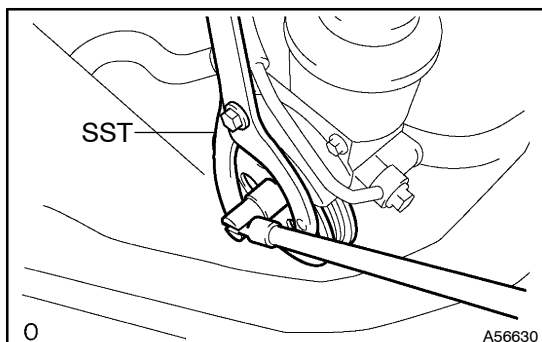
(See page 42-17)

32. REMOVE VANE PUMP V BELT

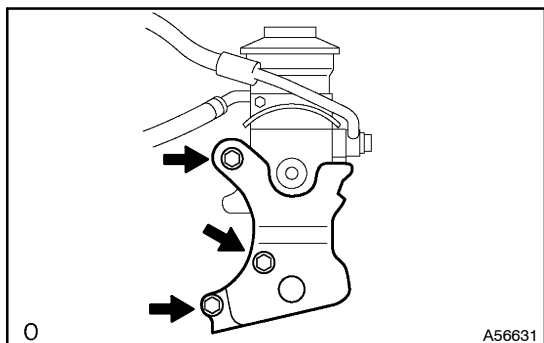
(See page 4-75)

**33. REMOVE POWER STEERING IDLE PULLEY ASSY**

- (a) Remove the nut and idle pulley.

**34. REMOVE VANE PUMP PULLEY**

- (a) Using SST, remove the pulley bolt.
 SST 09960-10010 (09962-01000, 09963-01000)

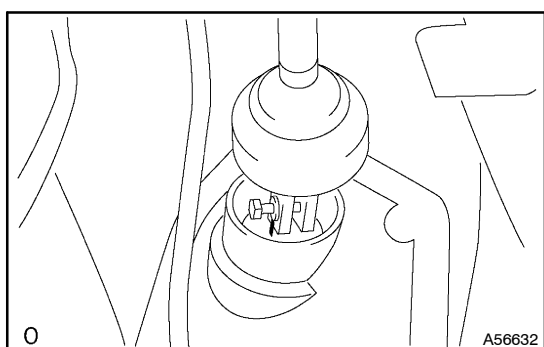
**35. SEPARATE VANE PUMP W/BRACKET**

- (a) Remove the 3 bolts and vane pump with bracket.

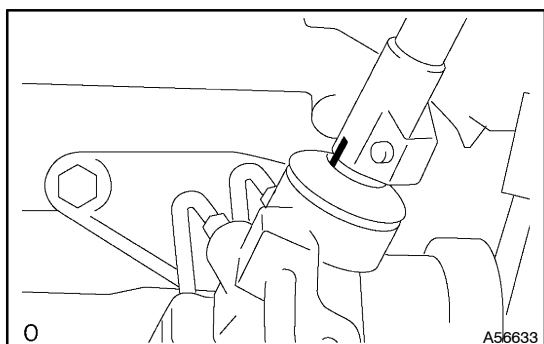
36. SEPARATE COMPRESSOR AND MAGNETIC CLUTCH(W/ AIR CONDITIONER)

HINT:

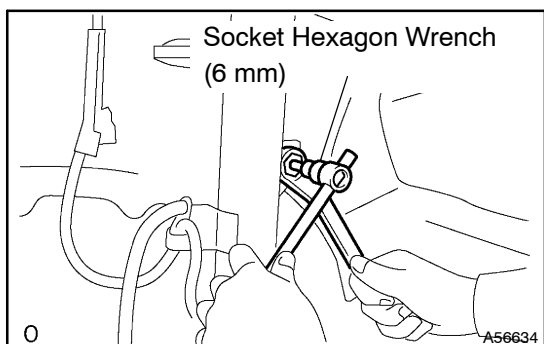
Hung up the hoses instead of detaching.

37. REMOVE EXHAUST PIPE ASSY FRONT**38. REMOVE STEERING INTERMEDIATE SHAFT ASSY NO.2**

- (a) Loosen the sliding yoke bolt.



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

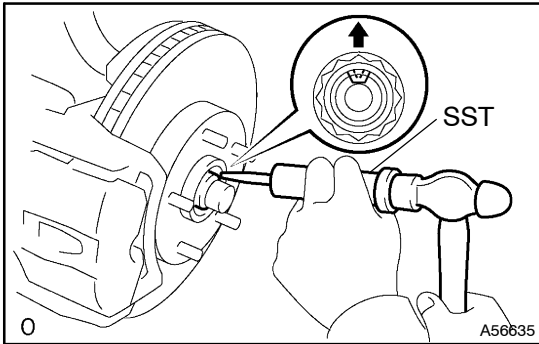
**39. SEPARATE FRONT STABILIZER LINK ASSY LH**

- (a) Using a 6 mm socket hexagon wrench, hold the ball stud.
- (b) Remove the nut, and separate the stabilizer link.

40. SEPARATE FRONT STABILIZER LINK ASSY RH

HINT:

Perform the same procedure as above on the opposite side.

**41. REMOVE FRONT AXLE HUB LH NUT**

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

SST 09930-00010

NOTICE:

- When removing the nut, unstack 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.

42. REMOVE FRONT AXLE HUB RH NUT

SST 09930-00010

HINT:

Perform the same procedure as above on the opposite side.

43. REMOVE SPEED SENSOR FRONT LH

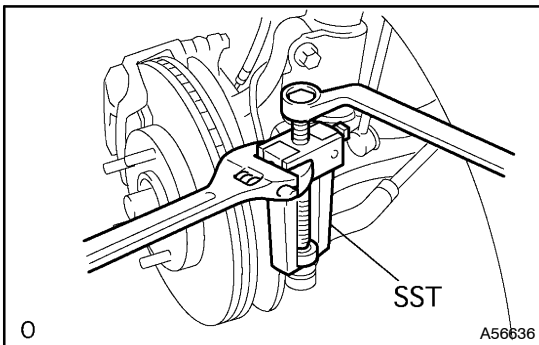
- (a) Remove the bolt, and separate the speed sensor from the steering knuckle.

NOTICE:

Do not stick any foreign matter on the sensor tip.

44. REMOVE SPEED SENSOR FRONT RH**HINT:**

Perform the same procedure as above on the opposite side.

**45. SEPARATE TIE ROD END SUB-ASSY LH**

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

SST 09628-62011

NOTICE:

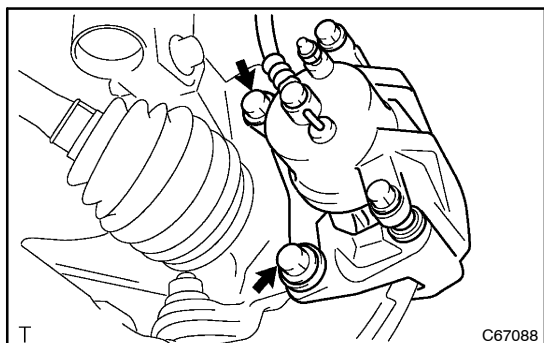
Do not damage the dust cover of the ball joint.

46. SEPARATE TIE ROD END SUB-ASSY RH

SST 09628-62011

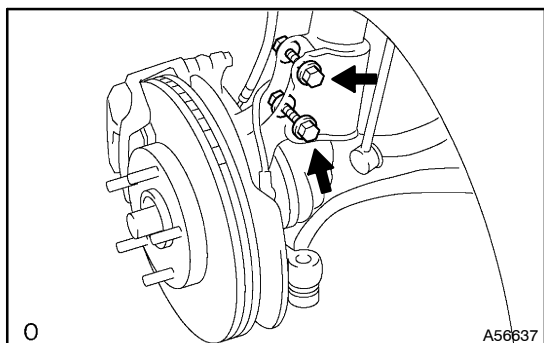
HINT:

Perform the same procedure as above on the opposite side.



47. SEPARATE STEERING KNUCKLE LH

- (a) Remove the 2 bolts, separate the brake caliper from the steering knuckle.



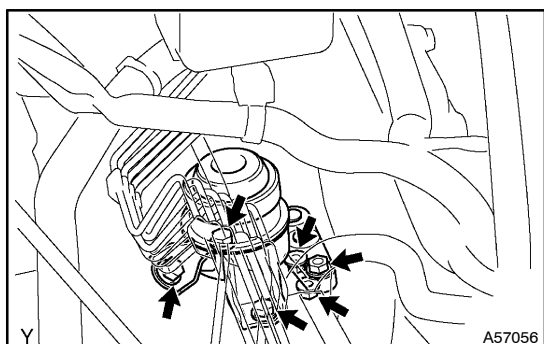
- (b) Remove the 2 bolts, nuts and steering knuckle with the axle hub.

- (c) Remove the drive shaft LH. (See page 30-7)

48. SEPARATE STEERING KNUCKLE RH

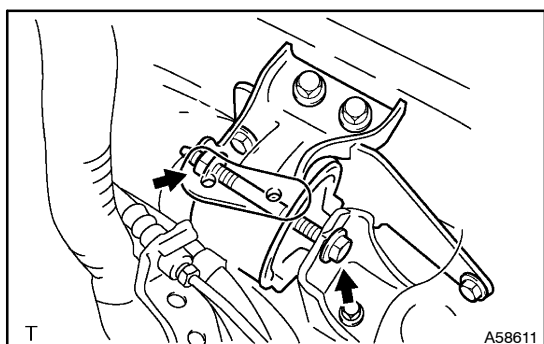
HINT:

Perform the same procedure as above on the opposite side.

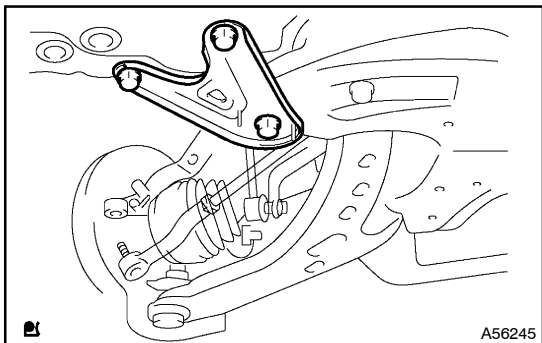


49. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE

- (a) Set the engine lifter.
- (b) Remove the 3 nuts, and 3 bolts holding the RH engine mounting insulator to the engine mounting bracket.



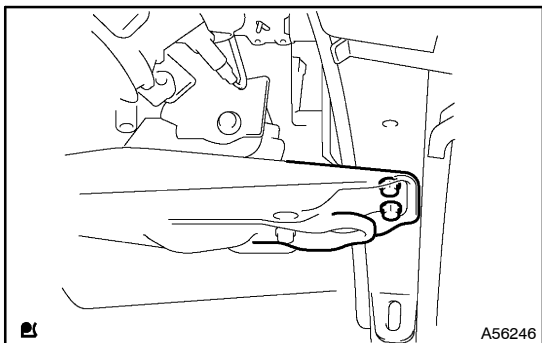
- (c) Remove the bolt holding the LH engine mounting insulator to the mounting bracket.



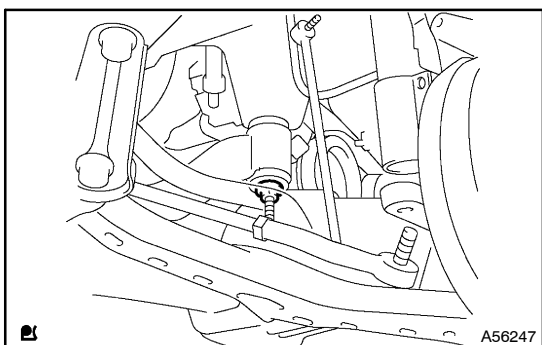
- (d) Remove the 3 bolts and the suspension member brace LH.

HINT:

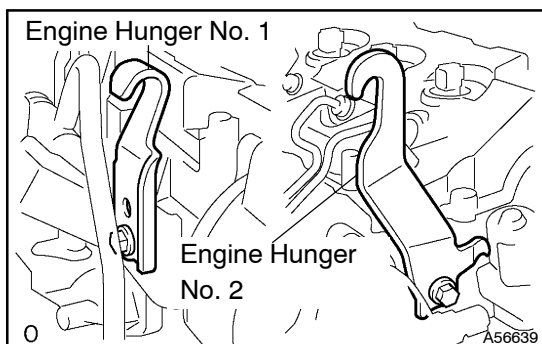
Perform the same procedure as above on the opposite side.



- (e) Remove the 2 bolts and separate the engine mounting from the vehicle.



- (f) Remove the 2 nuts and separate the front suspension crossmember from the vehicle.
(g) Lower the engine out of the vehicle slowly and carefully.



- (h) Install the 2 engine hangers.

Part No.:

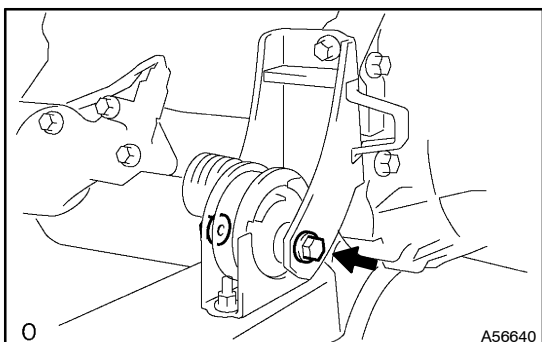
No.1 engine hanger 12281-27020

No.2 engine hanger 12282-27020

Bolt 91642-81025

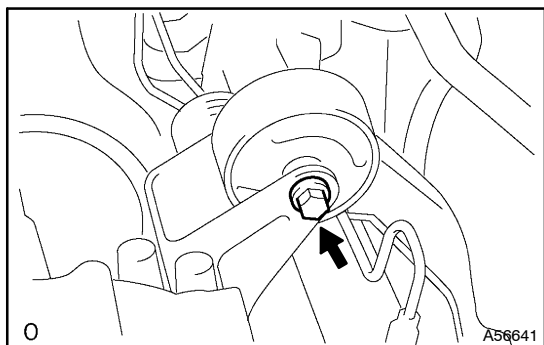
Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

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



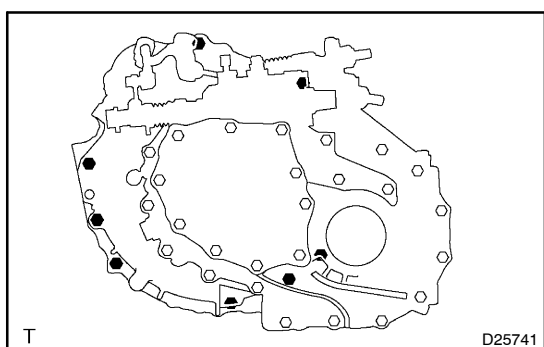
50. REMOVE FRONT SUSPENSION CROSSMEMBER SUB-ASSY

- (a) Remove the bolt holding the front engine mounting bracket to the mounting insulator.



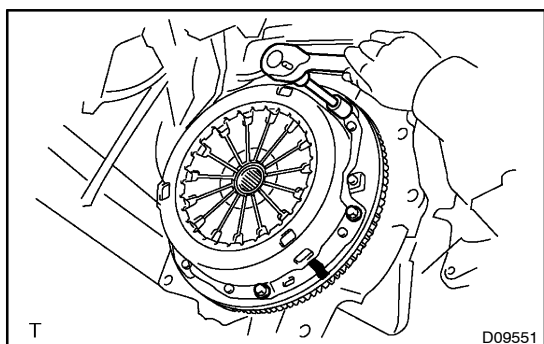
- (b) Remove the bolt holding the rear engine mounting bracket to the mounting insulator.
- (c) Separate the engine and transaxle assembly from the suspension crossmember and engine mounting member.

51. REMOVE STARTER ASSY



52. REMOVE MANUAL TRANSAXLE

- (a) Remove the 8 bolts.
- (b) Separate and remove the transaxle from the engine.



53. REMOVE CLUTCH DISC ASSY

- (a) Place the matchmarks on the clutch cover with the one on the flywheel.
- (b) Loosen each set bolt one turn at a time until spring tension is released.
- (c) Remove the set bolts, and pull off the clutch cover.

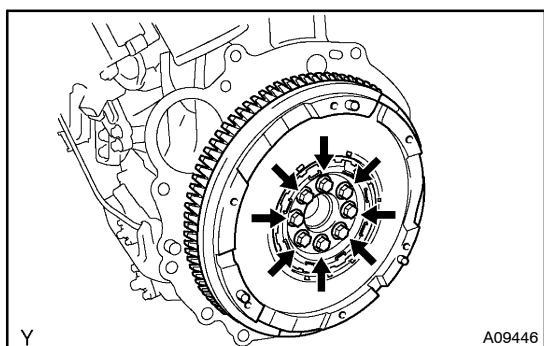
NOTICE:

Do not drop the clutch disc.

- (d) Remove the clutch disc.

54. REMOVE FLYWHEEL SUB-ASSY

- (a) Fix the crank shaft with SST, then remove the 8 set bolts.
SST 09213-54015 (91651-60855), 09330-00021



55. REMOVE REAR END PLATE

- (a) Remove the 2 bolts and rear end plate.

56. REMOVE DRIVE SHAFT BEARING BRACKET

57. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

58. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

59. REMOVE GLOW PLUG ASSY

(See page 19-18)

60. REMOVE FAN AND GENERATOR V-BELT

61. REMOVE CRANKSHAFT PULLEY

(See page 14-114)

SST 09213-54015 (91651-60855), 09330-00021, 09950-50013 (09951-05010, 09952-05010, 09953-05010, 09953-05020, 09954-05021, 09954-05030)

62. REMOVE TIMING BELT NO.2 COVER

63. REMOVE PULLEY SUB-ASSY, IDLER

64. REMOVE TIMING BELT NO.1 COVER

65. REMOVE TIMING BELT GUIDE

66. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

67. REMOVE SET NO.1 CYLINDER TO TDC/COMPRESSION (See page 14-114)

68. REMOVE TIMING BELT

(See page 14-114)

HINT:

If re-using the timing belt, draw a direction arrow on the timing belt (in direction of engine revolution), and place matchmarks on the pulleys and timing belt.

69. REMOVE GENERATOR ASSY

70. REMOVE GENERATOR BRACKET NO.1

71. REMOVE V-RIBBED BELT TENSIONER ASSY

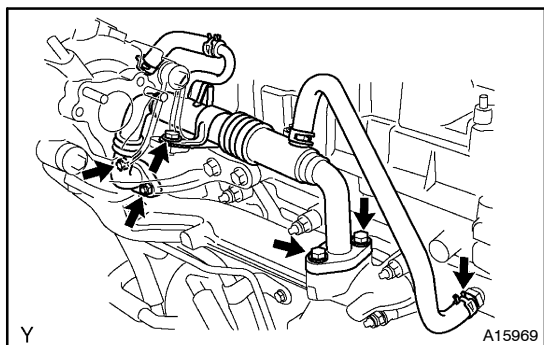
72. REMOVE OIL FILTER BRACKET SUB-ASSY

73. REMOVE TURBO INSULATOR NO.2

74. REMOVE TURBO INSULATOR NO.1

75. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO.2

76. REMOVE MANIFOLD CONVERTER SUB-ASSY

**77. REMOVE EGR PIPE SUB-ASSY NO.1**

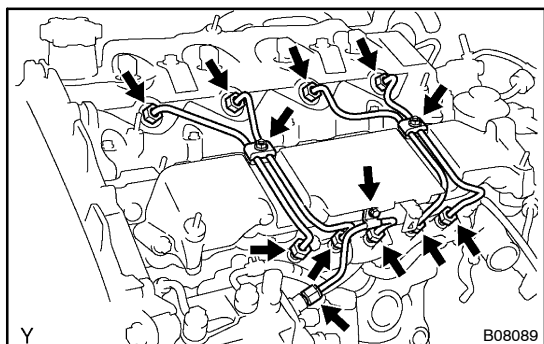
- (a) Disconnect the hose from the PCV valve.
- (b) Remove the EGR cooler pipe stay bolt from the turbocharger bracket.
- (c) Remove the 2 bolts and gasket, disconnect the EGR cooler pipe from the exhaust manifold.
- (d) Remove the 2 nuts, EGR cooler pipe and gasket from the cylinder head.

78. REMOVE TURBO WATER HOSE NO.2**79. REMOVE TURBO WATER HOSE NO.1****80. REMOVE TURBO OIL INLET PIPE SUB-ASSY****81. REMOVE TURBOCHARGER SUB-ASSY**

(See page 13-6)

82. REMOVE EXHAUST MANIFOLD**83. REMOVE OIL COOLER ASSY**

(See page 13-6)

84. REMOVE WATER OUTLET SUB-ASSY**85. REMOVE INTAKE AIR CONNECTOR****86. REMOVE EGR VALVE ASSY****87. REMOVE VACUUM PUMP ASSY****88. REMOVE NOZZLE LEAKAGE PIPE NO.2****89. REMOVE FUEL INLET PIPE SUB-ASSY**

- (a) Remove the pipe clamp bolt from the intake manifold.
- (b) Using SST, remove the fuel inlet pipe from the common rail side.
SST 09023-12900
- (c) Using SST, remove the fuel inlet pipe from the pump side.
SST 09023-12700
- (d) Remove the 2 nuts and 2 upper injection pipe clamps from the intake manifold.
- (e) Using SST, remove the injection pipe from the common rail side.
SST 09023-12900

- (f) Using SST, remove the injection pipe from the injector side.

SST 09023-12700

NOTICE:

- After removing the fuel pipe, affix the gum tape on the common rail for preventing dust from coming into them.
- After removing the fuel pipe, put a vinyl bag and rubber band for preventing from mixing foreign objects over the injectors inlet.

- (g) Remove the 2 lower injection pipe clamps from the intake manifold.

90. REMOVE INJECTION PIPE SUB-ASSY NO.1

SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as fuel inlet pipe.

91. REMOVE INJECTION PIPE SUB-ASSY NO.2

SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as fuel inlet pipe.

92. REMOVE INJECTION PIPE SUB-ASSY NO.3

SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as fuel inlet pipe.

93. REMOVE INJECTION PIPE SUB-ASSY NO.4

SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as fuel inlet pipe.

94. REMOVE COMMON RAIL ASSY

95. REMOVE INTAKE MANIFOLD

- (a) Remove the 3 bolts and the engine cover No.2
 (b) Remove the supply pump insulator.
 (c) Remove the 8 bolts, 2 nuts, intake manifold and gasket.

96. REMOVE INJECTION PUMP DRIVE PULLEY

(See page 11-31)

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

97. REMOVE TIMING BELT NO.3 COVER

98. REMOVE OIL LEVEL GAGE GUIDE

99. REMOVE INJECTION PUMP STAY NO.1

100. REMOVE INJECTION PUMP ASSY

101. REMOVE WATER INLET**102. REMOVE THERMOSTAT****103. REMOVE OIL COOLER PIPE****104. REMOVE FUEL FILTER TO INJECTION PUMP FUEL PIPE****105. REMOVE CRANK POSITION SENSOR****106. REMOVE CRANK POSITION SENSOR****107. REMOVE DIESEL ENGINE ENGINE COOLANT TEMPERATURE SENSOR****108. REPLACE PARTIAL ENGINE ASSY****109. INSTALL DIESEL ENGINE ENGINE COOLANT TEMPERATURE SENSOR**

Torque: 20 N·m (204 kgf·cm, 15 ft·lbf)

110. INSTALL CRANK POSITION SENSOR

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

111. INSTALL CRANK POSITION SENSOR

Torque:

112. INSTALL OIL COOLER PIPE

(a) Install 2 new gaskets and the oil cooler pipe with the union bolt.

Torque: 56 N·m (575 kgf·cm, 42 ft·lbf)

113. INSTALL THERMOSTAT

(See page 16-26)

114. INSTALL WATER INLET

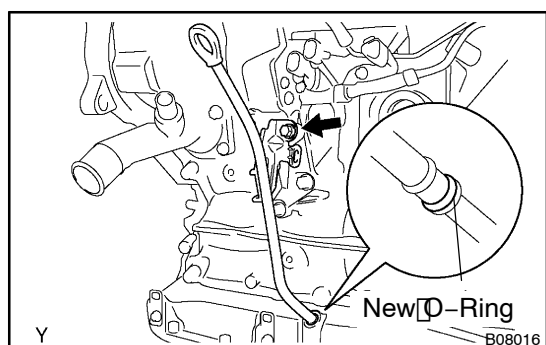
(See page 16-26)

115. INSTALL INJECTION PUMP ASSY

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

116. INSTALL INJECTION PUMP STAY NO.1

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

**117. INSTALL OIL LEVEL GAGE GUIDE**

- (a) Install a new O-ring to the oil level gage guide.
- (b) Apply engine oil to the O-ring.
- (c) Push in the oil level gage guide end into the guide hole of the No. 1 oil pen.
- (d) Install the oil level gage guide with the bolt.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)
- (e) Apply engine oil to the O-ring on the oil level gage.
- (f) Install the oil level gage.

118. INSTALL TIMING BELT NO.3 COVER

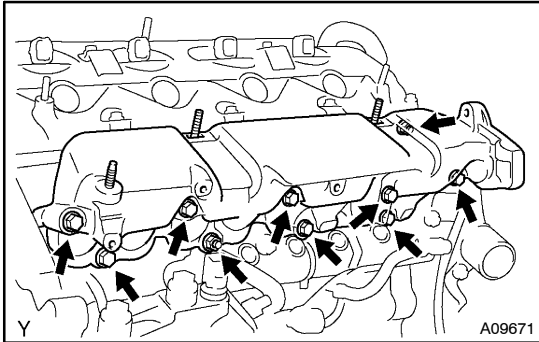
- (a) Install the timing belt cover with the 2 bolts and 2 seal washers.

Torque: 7.4 N·m (75 kgf·cm, 65 in.·lbf)

119. INSTALL INJECTION PUMP DRIVE PULLEY

(See page 1-31)

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

**120. INSTALL INTAKE MANIFOLD**

- (a) Install a new gasket and the intake manifold with the 8 bolts and 2 nuts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

121. INSTALL COMMON RAIL ASSY

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

122. INSTALL INJECTION PIPE SUB-ASSY NO.1

- Install the 2 lower injection pipe clamps to the intake manifold.
- Remove the vinyl bag and rubber band from the injectors.
- Remove the gum tape from the common rail.
- Temporarily tighten the injection pipe.
- Using SST, tighten the injection pipe from the common rail side.

SST 09023-12900

Torque:

37 N·m (377 kgf·cm, 27 ft·lbf) for use with SST

41 N·m (418 kgf·cm, 30 ft·lbf)

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

- Using SST, tighten the injection pipe from the injector side.

SST 09023-12700

Torque:

31 N·m (316 kgf·cm, 23 ft·lbf) for use with SST

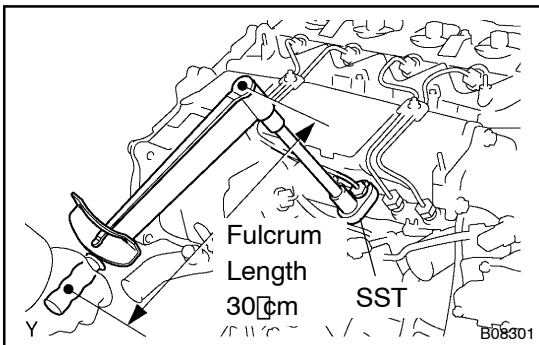
34 N·m (347 kgf·cm, 25 ft·lbf)

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

- Install the 2 upper injection pipe clamps and 2 nuts.

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



123. INSTALL INJECTION PIPE SUB-ASSY NO.2

SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as injection pipe No. 1.

124. INSTALL INJECTION PIPE SUB-ASSY NO.3

SST 09023-12700, 09023-12900

HINT:

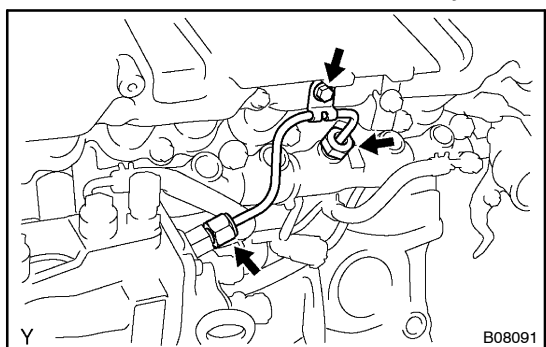
Perform the same procedure as injection pipe No. 1.

125. INSTALL INJECTION PIPE SUB-ASSY NO.4

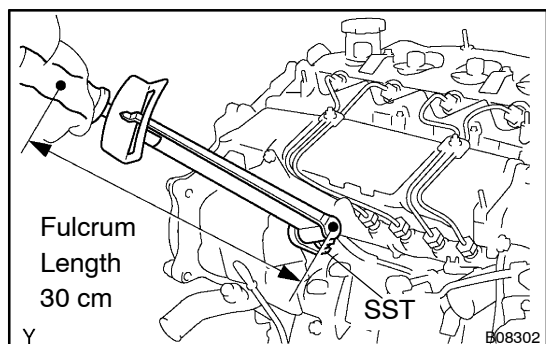
SST 09023-12700, 09023-12900

HINT:

Perform the same procedure as injection pipe No. 1.

**126. INSTALL FUEL INLET PIPE SUB-ASSY**

- (a) Remove the gum tape from the common rail and supply pump.
- (b) Temporarily tighten the inlet pipe and pipe clamp bolt.



- (c) Using SST, tighten the inlet pipe from the common rail side.

SST 09023-12900

Torque:**37 N·m (377 kgf·cm, 27 ft·lbf) for use with SST****41 N·m (418 kgf·cm, 30 ft·lbf)**

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

- (d) Using SST, tighten the inlet pipe from the pump side.

SST 09023-12700

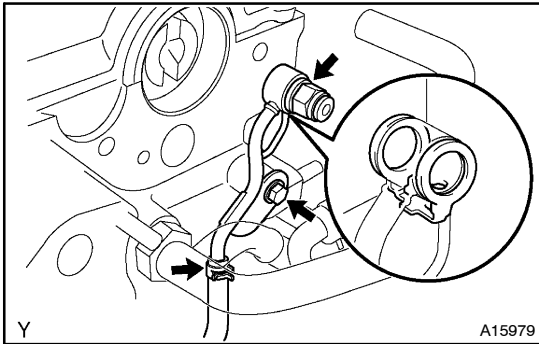
Torque:**31 N·m (316 kgf·cm, 23 ft·lbf) for use with SST****34 N·m (347 kgf·cm, 25 ft·lbf)**

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

- (e) Tighten the pipe clamp bolt.

Torque: 7.4 N·m (75 kgf·cm, 65 in·lbf)

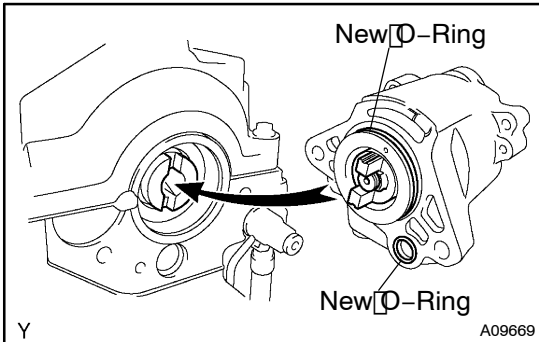
**127. INSTALL NOZZLE LEAKAGE PIPE NO.2**

- (a) Install a new gasket and the leakage pipe with the check valve and bolt.

Torque:

21 N·m (215 kgf·cm, 15 ft.·lbf) for use with SST

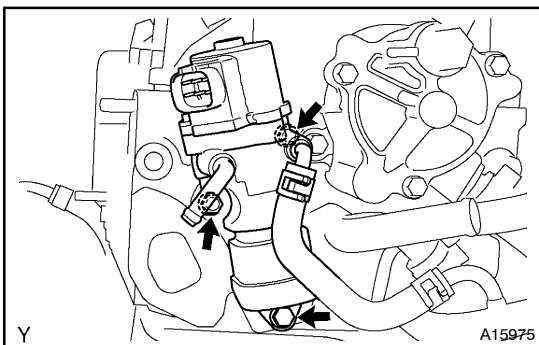
7.5 N·m (76 kgf·cm, 66 in.·lbf) for bolt

**128. INSTALL VACUUM PUMP ASSY**

- (a) Install 2 new O-rings to the vacuum pump.
 (b) Insert the vacuum pump, aligning the slit of the exhaust camshaft with the coupling of the vacuum pump. Install the 2 bolts.

Torque: 28 N·m (280 kgf·cm, 20 ft.·lbf)

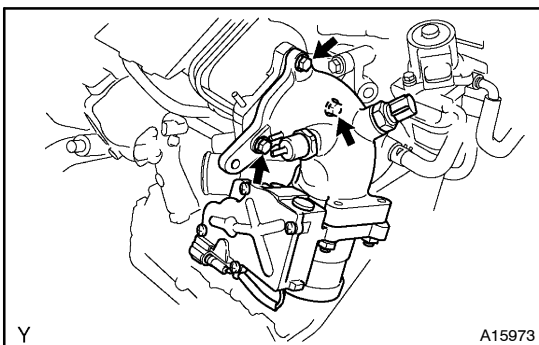
- (c) Connect the water hose to the vacuum pump.

**129. INSTALL EGR VALVE ASSY**

- (a) Install a new gasket and the EGR valve with the bolt and 2 nuts.

Torque: 18 N·m (185 kgf·cm, 13 ft.·lbf)

- (b) Connect the water hose to the EGR valve.

**130. INSTALL INTAKE AIR CONNECTOR**

- (a) Install a new gasket and the intake air connector with diesel throttle body with the 3 bolts.

Torque: 21 N·m (210 kgf·cm, 15 ft.·lbf)

131. INSTALL WATER OUTLET SUB-ASSY

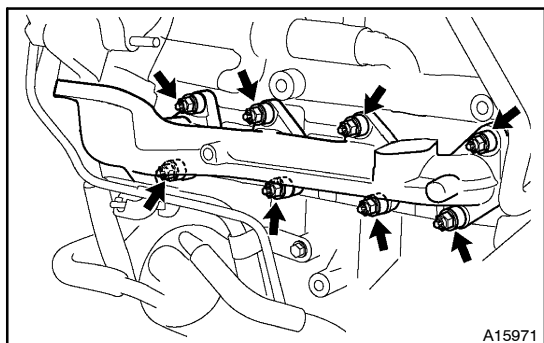
- (a) install a new gasket and the water outlet with the 2 bolts.

Torque: 21 N·m (210 kgf·cm, 15 ft.·lbf)

- (b) Connect the water hose to the EGR valve.

132. INSTALL OIL COOLER ASSY

(See page 17-26)

**133. INSTALL EXHAUST MANIFOLD**

- (a) Install a new gasket and the exhaust manifold and 8 collars, with the 8 nuts.

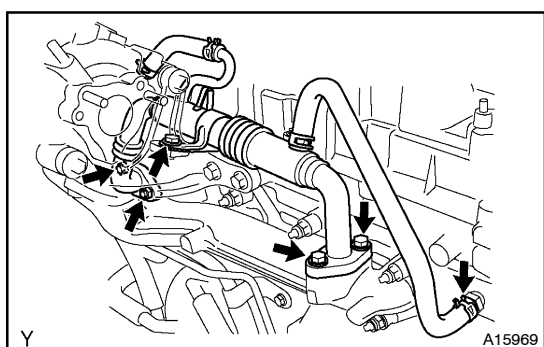
Torque: 47 N·m (475 kgf·cm, 34 ft·lbf)

134. INSTALL TURBOCHARGER SUB-ASSY

(See page 13-6)

135. INSTALL TURBO OIL INLET PIPE SUB-ASSY

(See page 13-6)

**136. INSTALL EGR PIPE SUB-ASSY NO.1**

- (a) Install a new gasket and connect the EGR cooler pipe with the 2 nuts the cylinder head.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

- (b) Install a new gasket, and connect the EGR cooler pipe to the exhaust manifold with the 2 bolts.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

- (c) Install the EGR cooler pipe stay bolt.

137. INSTALL MANIFOLD CONVERTER SUB-ASSY

(See page 13-6)

138. INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.2

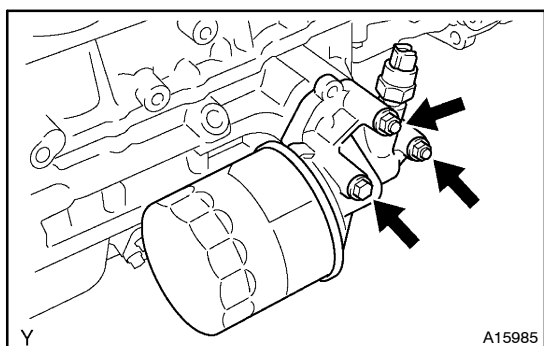
(See page 13-6)

139. INSTALL TURBO INSULATOR NO.1

(See page 13-6)

140. INSTALL TURBO INSULATOR NO.2

(See page 13-6)

**141. INSTALL OIL FILTER BRACKET SUB-ASSY**

- (a) Install the oil filter bracket and gasket with the bolt and 2 nuts.

Torque: 34 N·m (347 kgf·cm, 25 ft·lbf)

142. INSTALL V-RIBBED BELT TENSIONER ASSY

- (a) Install the drive belt tensioner with the 2 bolts.

Torque: 31 N·m (316 kgf·cm, 23 ft·lbf)

143. INSTALL GENERATOR BRACKET NO.1

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

144. INSTALL GENERATOR ASSY

(See page 19-7)

145. SET NO.1 CYLINDER TO TDC/COMPRESSION (See page 4-114)

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

146. INSTALL TIMING BELT

(See page 4-114)

147. CHECK VALVE TIMING (See page 4-114)**148. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET**

(See page 4-114)

149. INSTALL TIMING BELT GUIDE

(See page 4-114)

150. INSTALL TIMING BELT NO.1 COVER

(See page 4-114)

151. INSTALL PULLEY SUB-ASSY, IDLER

- (a) Install the pulley and washer, with the bolt.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

152. INSTALL TIMING BELT NO.2 COVER

(See page 4-114)

153. INSTALL CRANKSHAFT PULLEY

(See page 4-114)

SST 09213-54015 (91651-60855), 09330-00021

154. INSTALL GLOW PLUG ASSY

(See page 9-18)

155. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)

156. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

157. INSTALL DRIVE SHAFT BEARING BRACKET

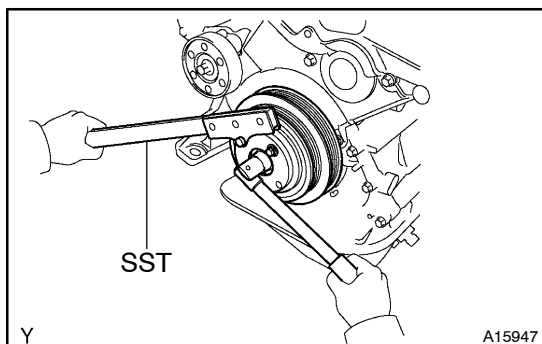
- (a) Install the bearing bracket with the 3 bolts.

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

158. INSTALL REAR END PLATE

- (a) Install the rear end plate.

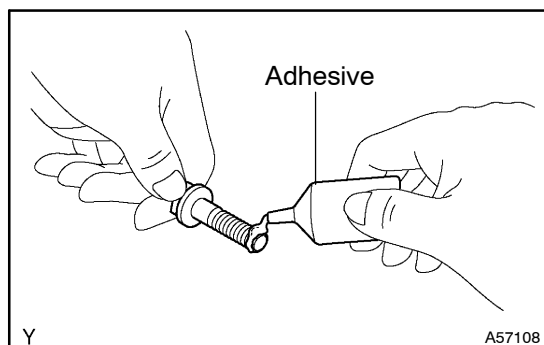
Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

**159. INSTALL FLYWHEEL SUB-ASSY**

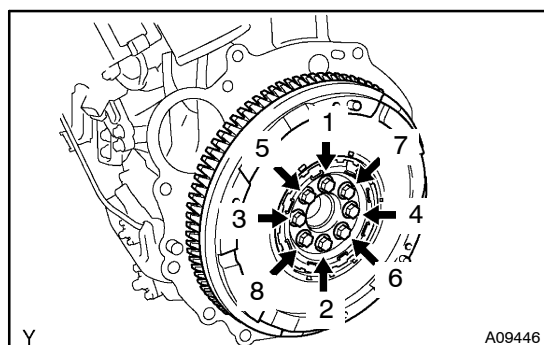
- (a) Using SST, hold the crankshaft.

SST 09213-54015 (91651-60855), 09330-00021

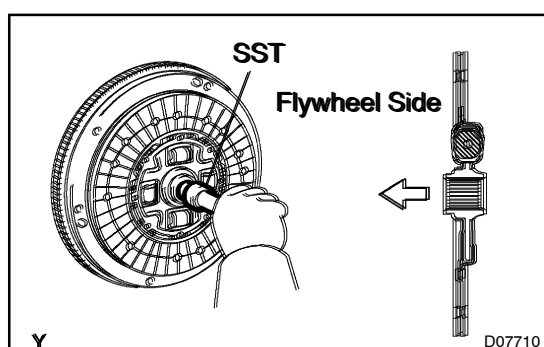
- (b) Clean the bolts and bolt holes.



- (c) Apply adhesive to 2 or 3 threads of the bolt end.
Adhesive: Part No. 08833-00070, THREE BOND 1324 or equivalent



- (d) Install and uniformly tighten the 8 bolts in several passes and in the sequence shown.
Torque: 88 N·m (898 kgf·cm, 65 ft·lbf)

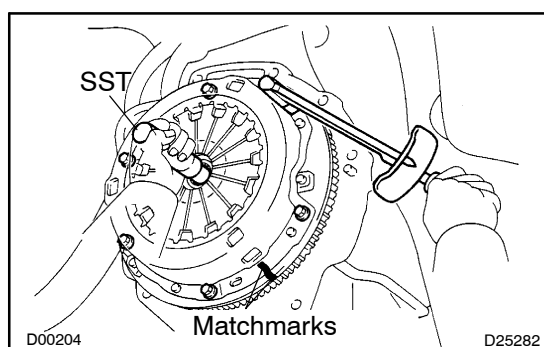


160. INSTALL CLUTCH DISC ASSY

- (a) Insert SST in the clutch disc, then insert them in the flywheel.
 SST 09301-00210

NOTICE:

Take care not to insert clutch disk in the wrong direction.

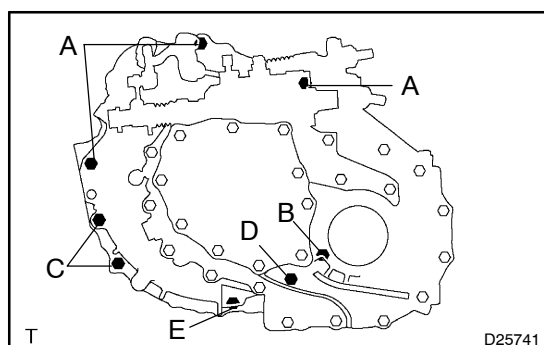


- (b) Align the matchmarks on the clutch cover and flywheel.
 (c) Following the procedures shown in the illustration, tighten the 6 bolts, in the order starting the bolt locating near the knock pin on the top.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

HINT:

- Tighten the bolts at a time evenly.
- Move SST up and down, right and left lightly, after checking that the disc is in the center, tighten the bolts.



161. INSTALL MANUAL TRANSAXLE

- (a) Align the input shaft with the clutch disc and install the transaxle to the engine.
 (b) Install the 8 bolts.

Torque:

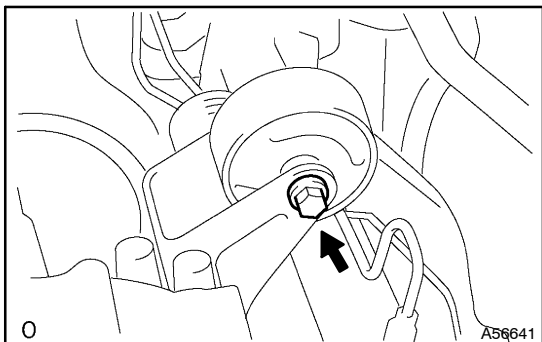
Bolt A 64 N·m (650 kgf·cm, 47 ft·lbf)

Bolt B 46 N·m (470 kgf·cm, 34 ft·lbf)

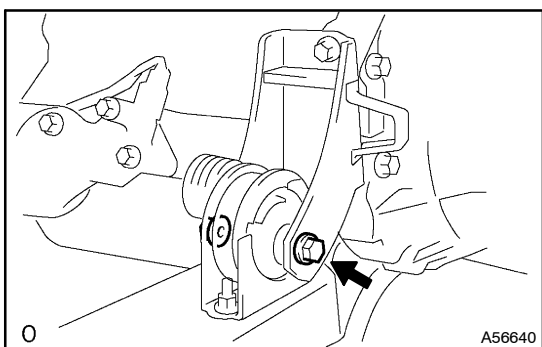
Bolt C 40 N·m (409 kgf·cm, 30 ft·lbf)

Bolt D 20 N·m (199 kgf·cm, 14 ft·lbf)

Bolt E 8.0 N·m (82 kgf·cm, 71 in·lbf)

162. INSTALL STARTER ASSY**Torque:****Bolt 39 N·m (398 kgf·cm, 29 ft·lbf)****Terminal 30 13 N·m (130 kgf·cm, 10 ft·lbf)****163. INSTALL FRONT SUSPENSION CROSSMEMBER SUB-ASSY**

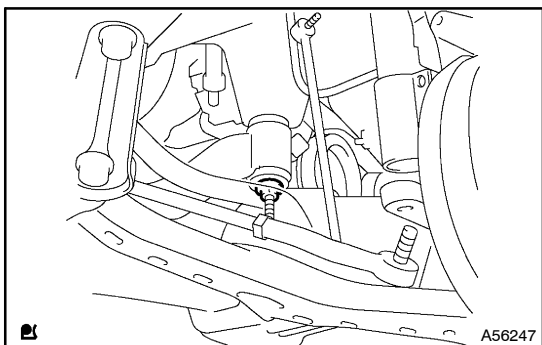
- (a) Attach the engine and transaxle assembly to the suspension crossmember and engine mounting member.
- (b) Install the bolt holding the rear engine mounting bracket to the mounting insulator.

Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)

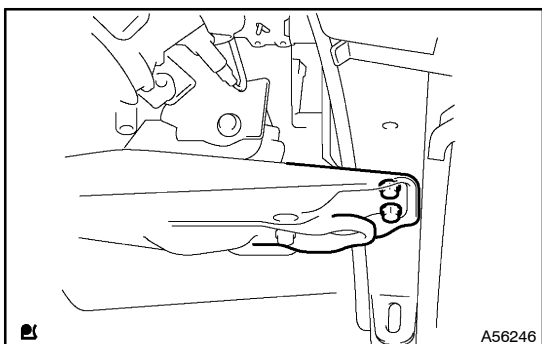
- (c) Install the bolt holding the front engine mounting bracket to the mounting insulator.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)**164. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE**

- (a) Set the engine assembly with transaxle on the engine lifter.

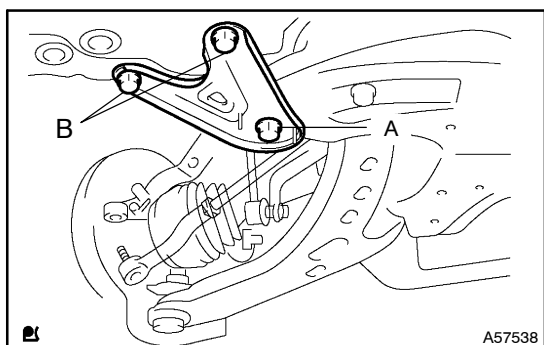


- (b) Install the 2 nuts and front suspension crossmember.

Torque: 133 N·m (1357 kgf·cm, 98 ft·lbf)

- (c) Install the 2 bolts and engine mounting member.

Torque: 45 N·m (459 kgf·cm, 33 ft·lbf)



- (d) Install the 3 bolts and front suspension member brace LH.

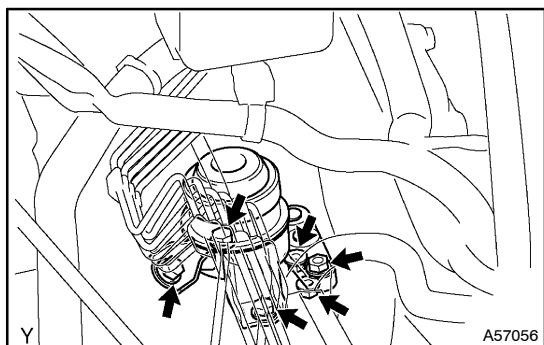
HINT:

Perform the same procedure as above on the opposite side.

Torque:

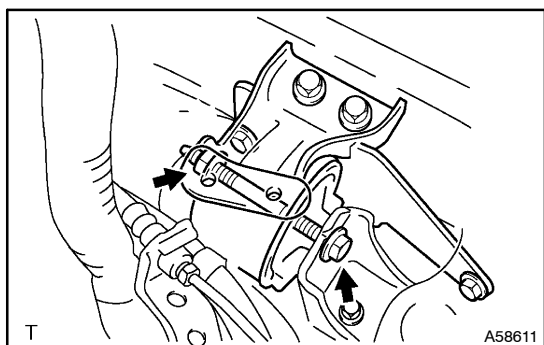
133 N·m (1357 kgf·cm, 98 ft·lbf) for Bolt A

80 N·m (816 kgf·cm, 59 ft·lbf) for Bolt B



- (e) Install the 3 bolts and 3 nuts holding the engine mounting insulator RH to the engine mounting bracket.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

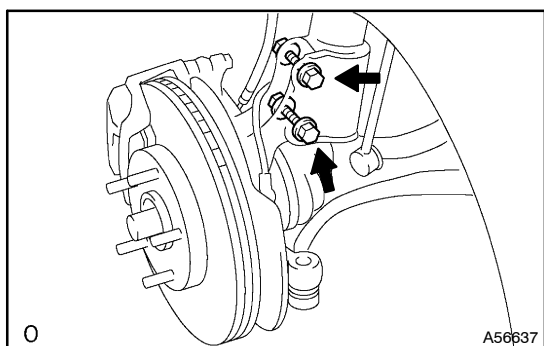


- (f) Install the bolt holding the LH engine mounting bracket to the mounting insulator.

Torque: 56 N·m (571 kgf·cm, 41 ft·lbf)

165. INSTALL STEERING KNUCKLE LH

- (a) Install the drive shaft LH. (See page 30-7)



- (b) Install the steering knuckle LH.
Torque: 210 N·m (2140 kgf·cm, 154 ft·lbf)
- (c) Install the brake pads with antisqueal shim.
(See page 32-33)

166. INSTALL STEERING KNUCKLE RH

HINT:

Perform the same procedure as above on the opposite side.

167. INSTALL TIE ROD END SUB-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.
- Insert a new cotter pin.

168. INSTALL TIE ROD END SUB-ASSY RH**HINT:**

Perform the same procedure as above on the opposite side.

169. INSTALL SPEED SENSOR FRONT LH

Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)

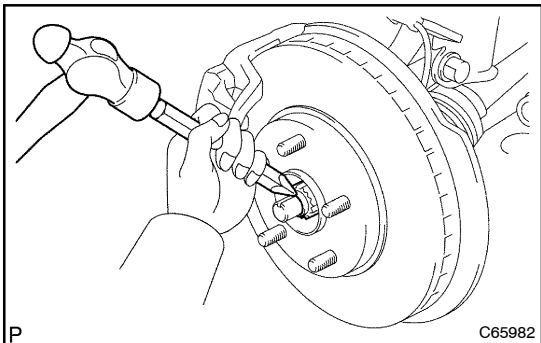
170. INSTALL SPEED SENSOR FRONT RH

Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)

171. INSTALL FRONT AXLE HUB LH NUT

- (a) Using a socket wrench (30 mm), install the hub nut.

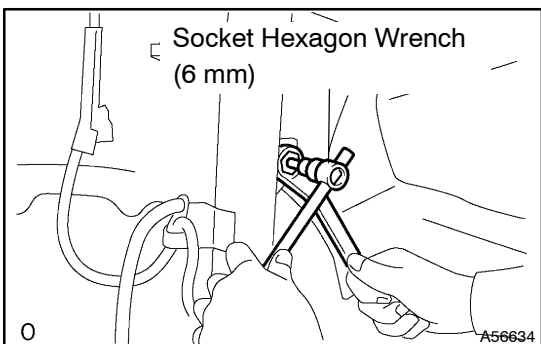
Torque: 216 N·m (2204 kgf·cm, 159 ft·lbf)



- (b) Using a chisel, stake the hub nut.

172. INSTALL FRONT AXLE HUB RH NUT**HINT:**

Perform the same procedure as above on the opposite side.

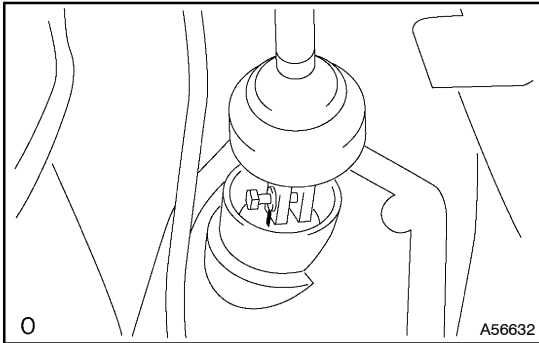
**173. INSTALL FRONT STABILIZER LINK ASSY LH**

- (a) Install the nut by using a 6 mm socket hexagon wrench to fix the stud bolt

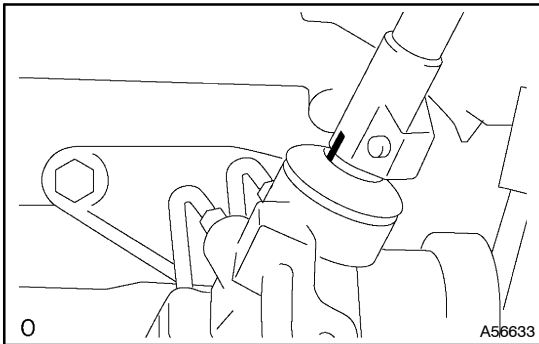
Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)

174. INSTALL FRONT STABILIZER LINK ASSY RH**HINT:**

Perform the same procedure as above on the opposite side.

**175. INSTALL STEERING INTERMEDIATE SHAFT ASSY NO.2**

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



- (b) Tighten the bolt.
Torque: 36 N·m (367 kgf·cm, 27 ft·lbf)

176. INSTALL EXHAUST PIPE ASSY FRONT

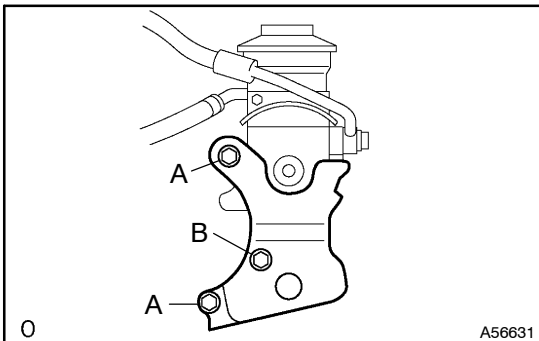
(See [page 5-2](#))

177. INSTALL COMPRESSOR AND MAGNETIC CLUTCH(W/ AIR CONDITIONER)

- (a) Install the 2 bolts, nut, stud bolt and compressor and magnetic clutch.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

- (b) Connect the connector

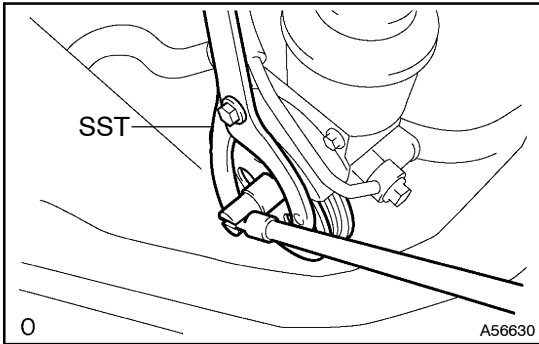
**178. INSTALL VANE PUMP W/BRAKET**

- (a) Install the vane pump w/bracket with the 3 bolts.

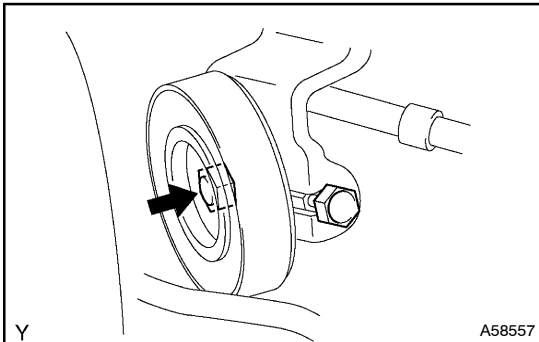
Torque:

Bolt A 39 N·m (398 kgf·cm, 29 ft·lbf)

Bolt B 72 N·m (735 kgf·cm, 53 ft·lbf)

**179. INSTALL VANE PUMP PULLEY**

- (a) Using SST, install the pump pulley.
 SST 09960-10010 (09962-01000, 09963-01000)
Torque: 43 N·m (439 kgf·cm, 32 ft·lbf)

**180. INSTALL POWER STEERING IDLE PULLEY ASSY**

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

181. INSTALL VANE PUMP V BELT

(See page 14-75)

182. INSPECT VANE PUMP V BELT

(See page 14-72)

183. INSTALL CLUTCH RELEASE CYLINDER ASSY

(See page 14-17)

184. INSTALL ENGINE COVER SUB-ASSY NO.1

Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

185. INSTALL WIPER LINK ASSY

(See page 16-9)

186. INSTALL FR WIPER ARM RH

(See page 16-9)

187. INSTALL FR WIPER ARM LH

(See page 16-9)

188. INSPECT HOOD SUB-ASSY

(See page 17-1)

189. ADJUST HOOD SUB-ASSY

(See page 17-1)

190. ADD MANUAL TRANSAXLE OIL**191. ADD ENGINE OIL****192. ADD COOLANT (See page 16-19)****193. INSPECT OIL LEAK****194. INSPECT FUEL LEAK****195. CHECK ENGINE COOLANT LEAK (See page 16-19)****196. CHECK EXHAUST GAS LEAK****197. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-4)****198. INSPECT ENGINE IDLE SPEED (See page 14-72)****199. CHECK ABS SPEED SENSOR SIGNAL (See page 25-295)**