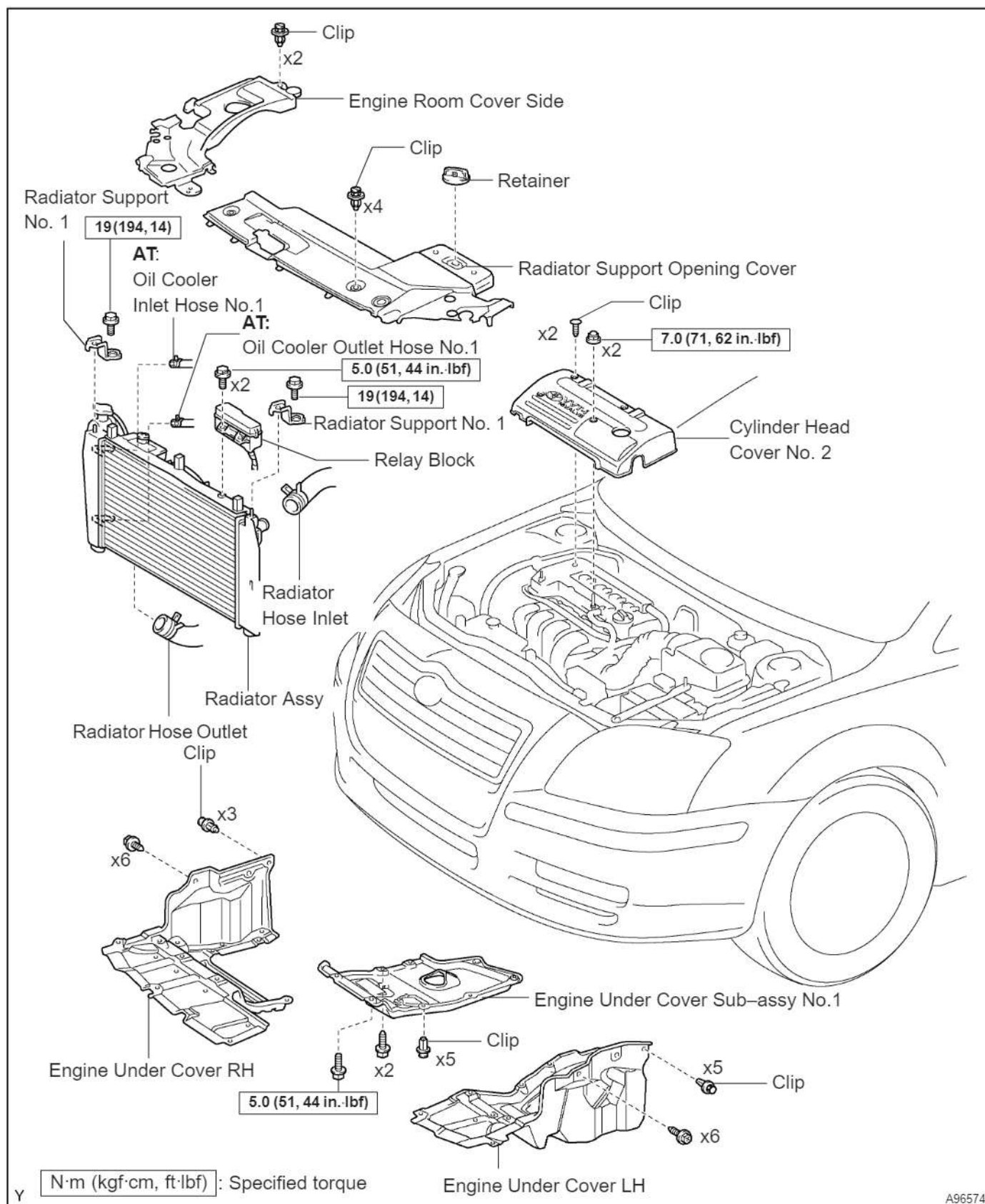
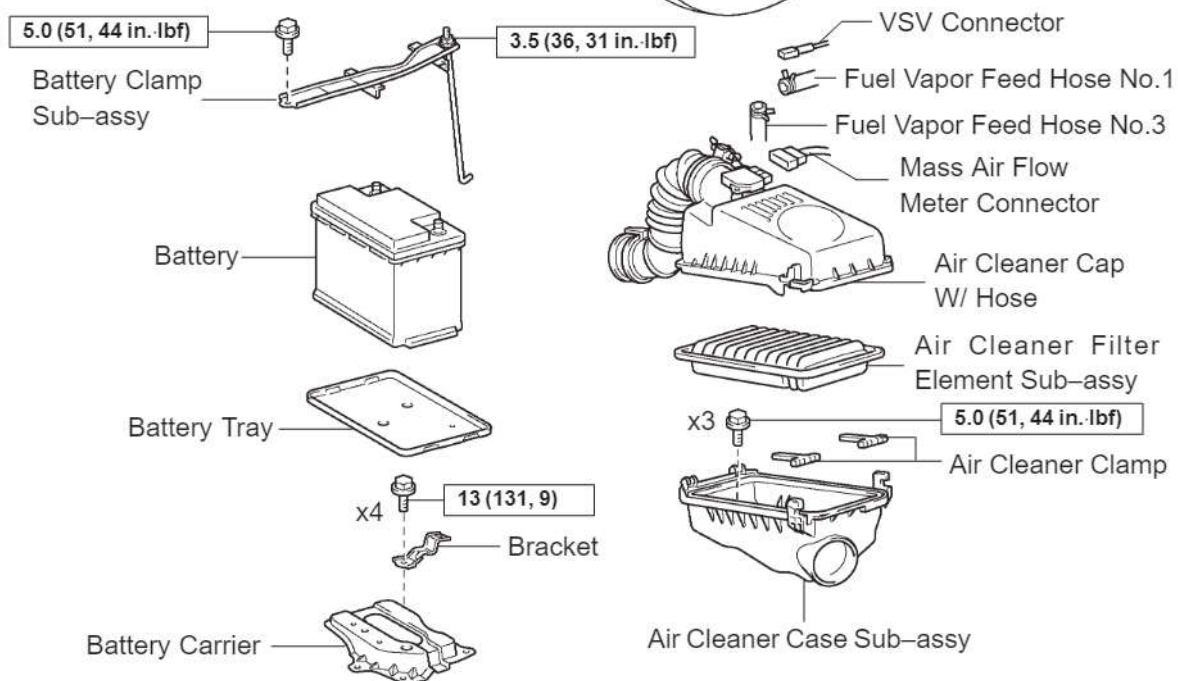
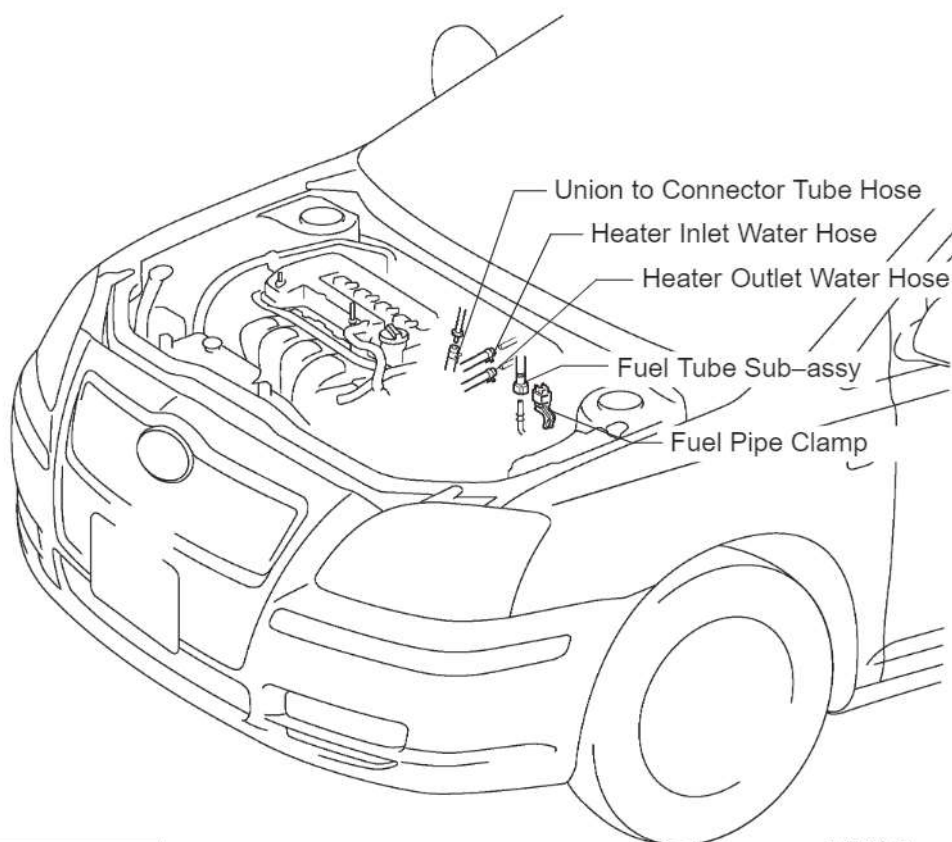


COMPONENTS

141CF-02

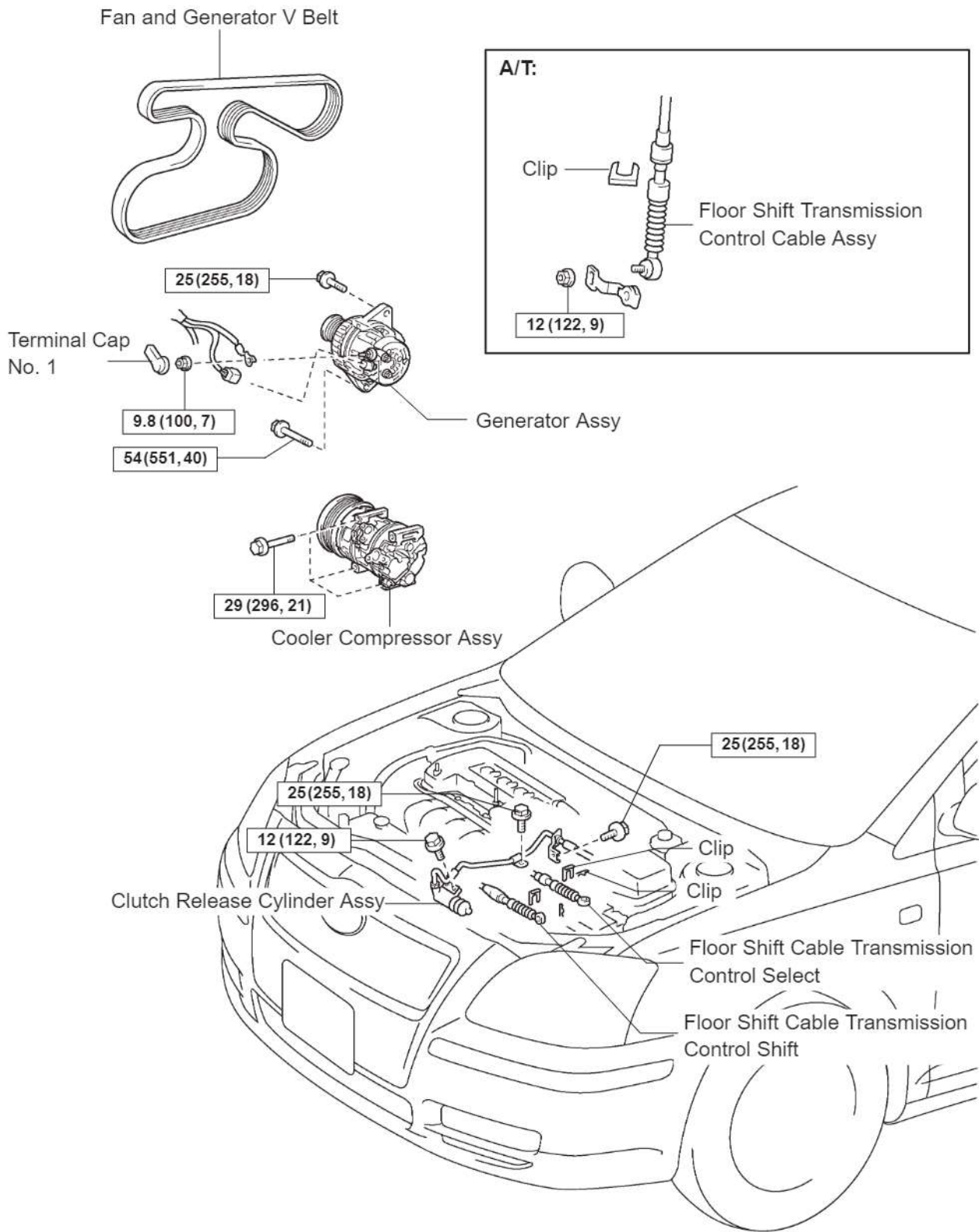


cardiagn.com



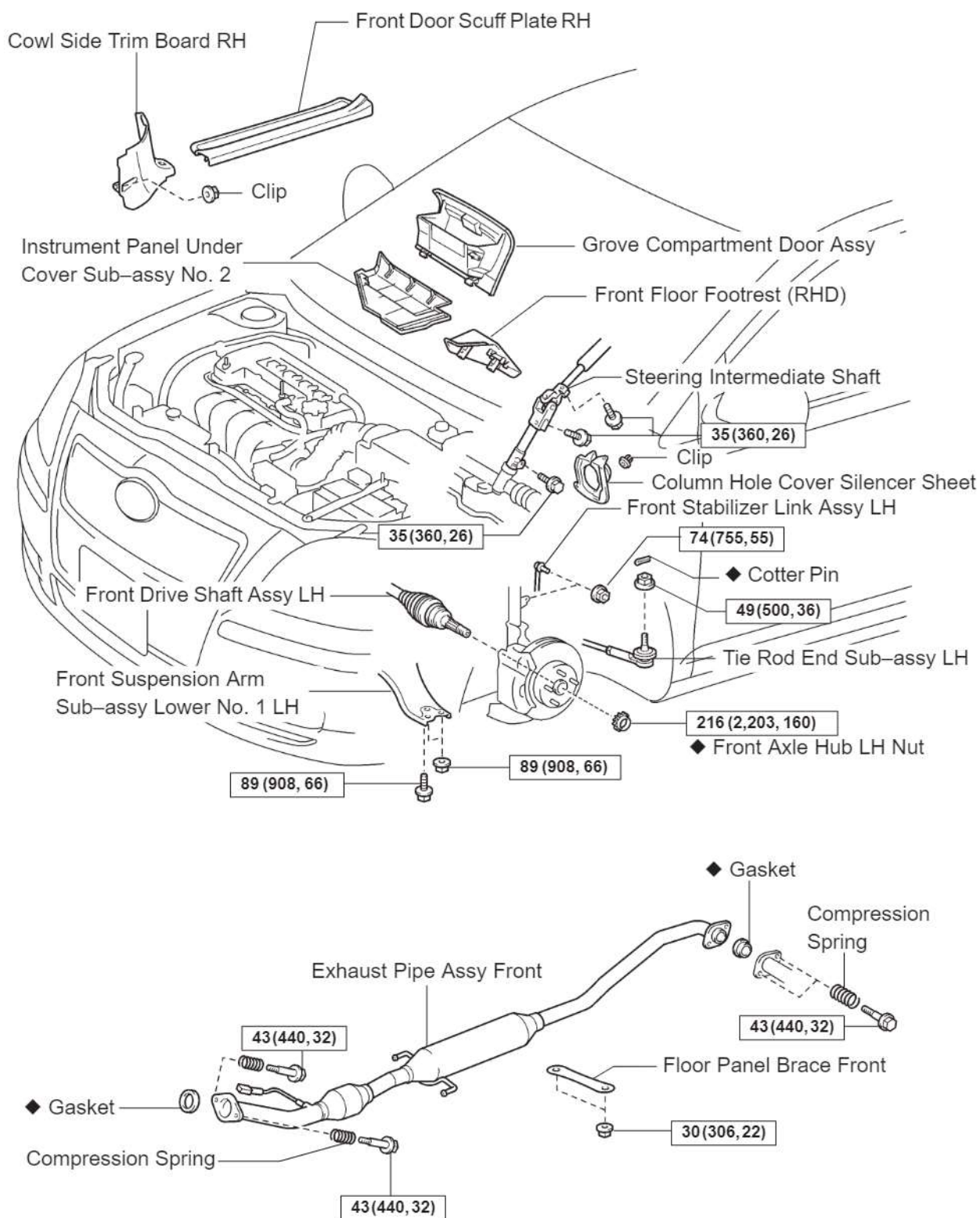
0 N·m (kgf·cm, ft·lbf) : Specified torque

A96572



o N·m (kgf·cm, ft·lbf): Specified torque

A76703

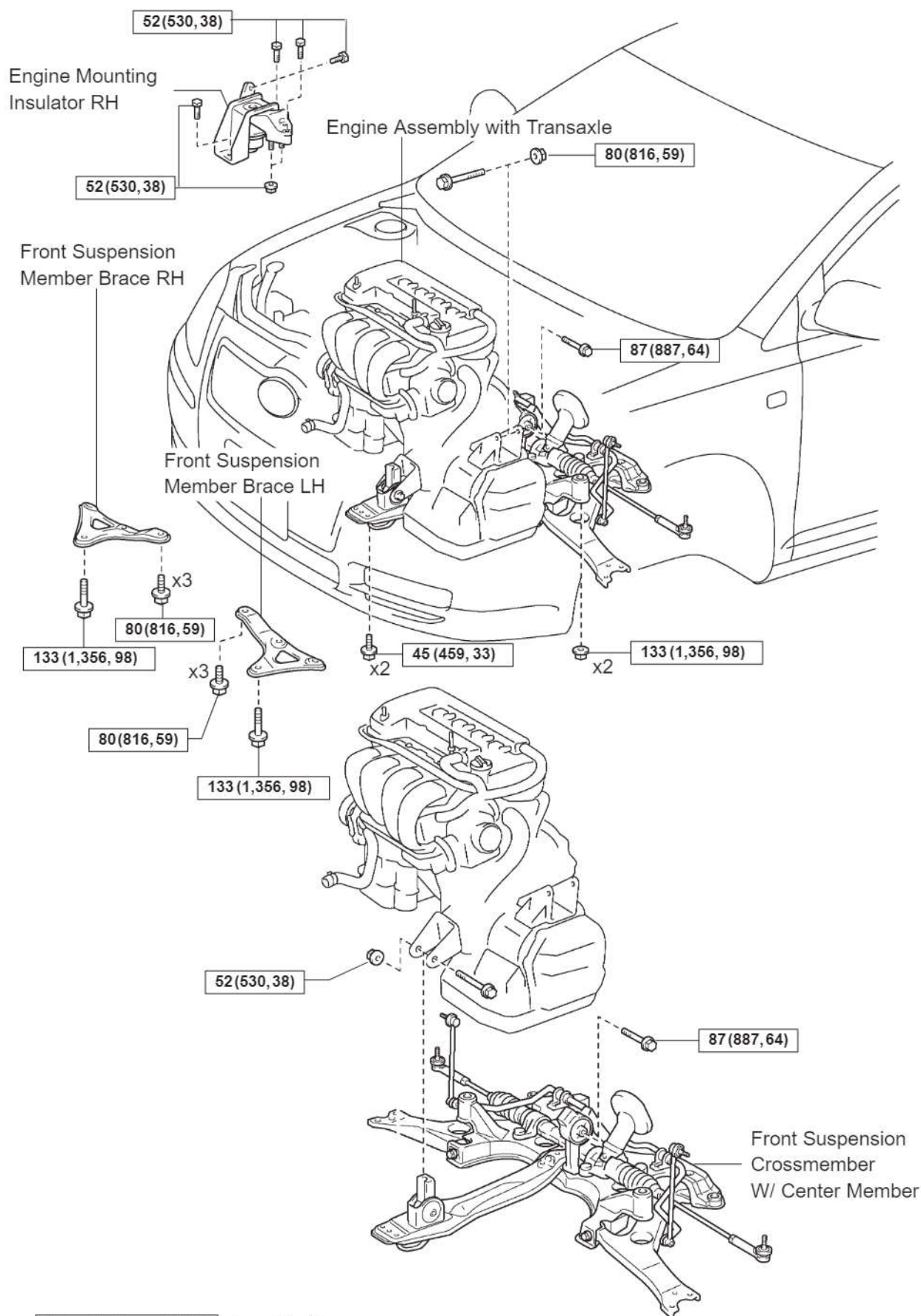


N·m (kgf·cm, ft·lbf) : Specified torque

0

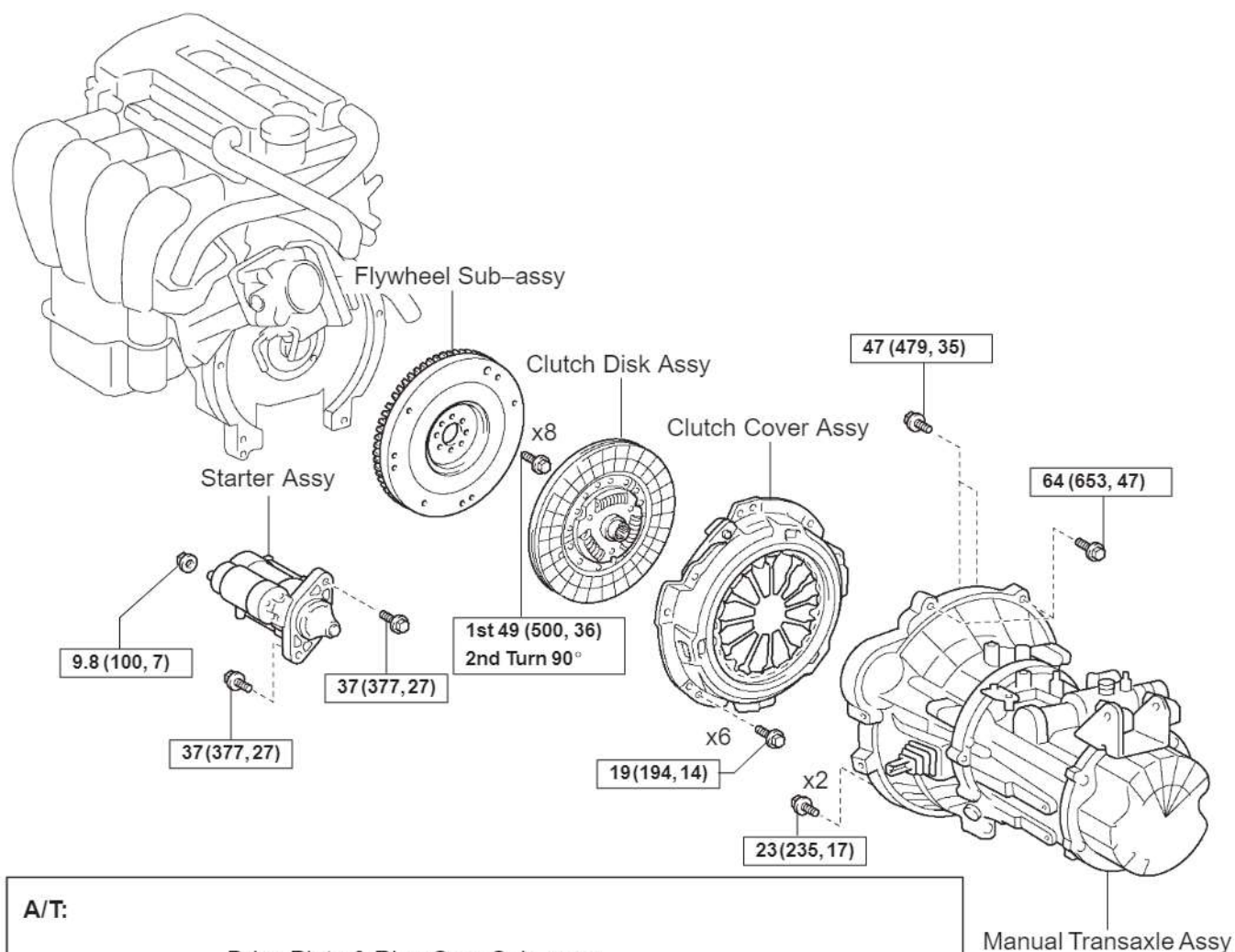
◆ Non-reusable part

A96568

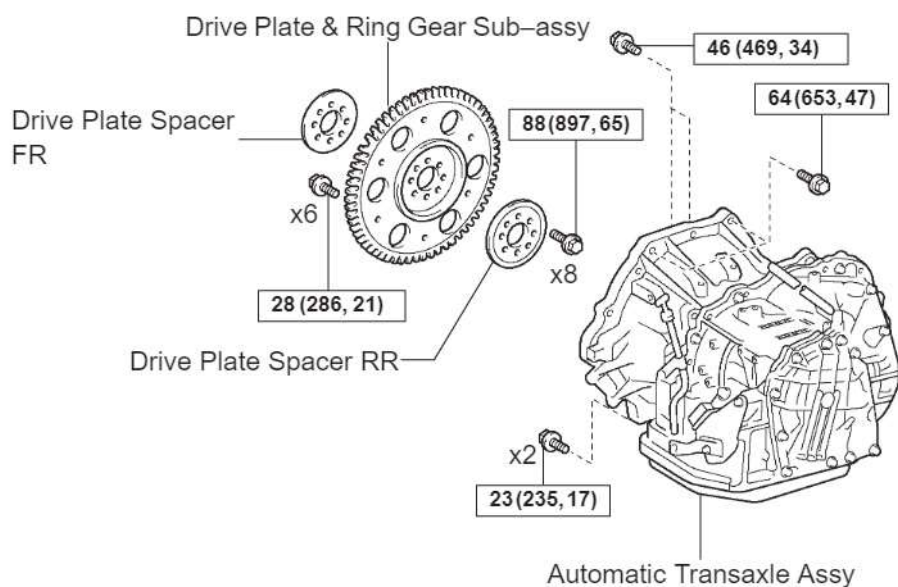


0 N·m (kgf·cm, ft·lbf) : Specified torque

A96575

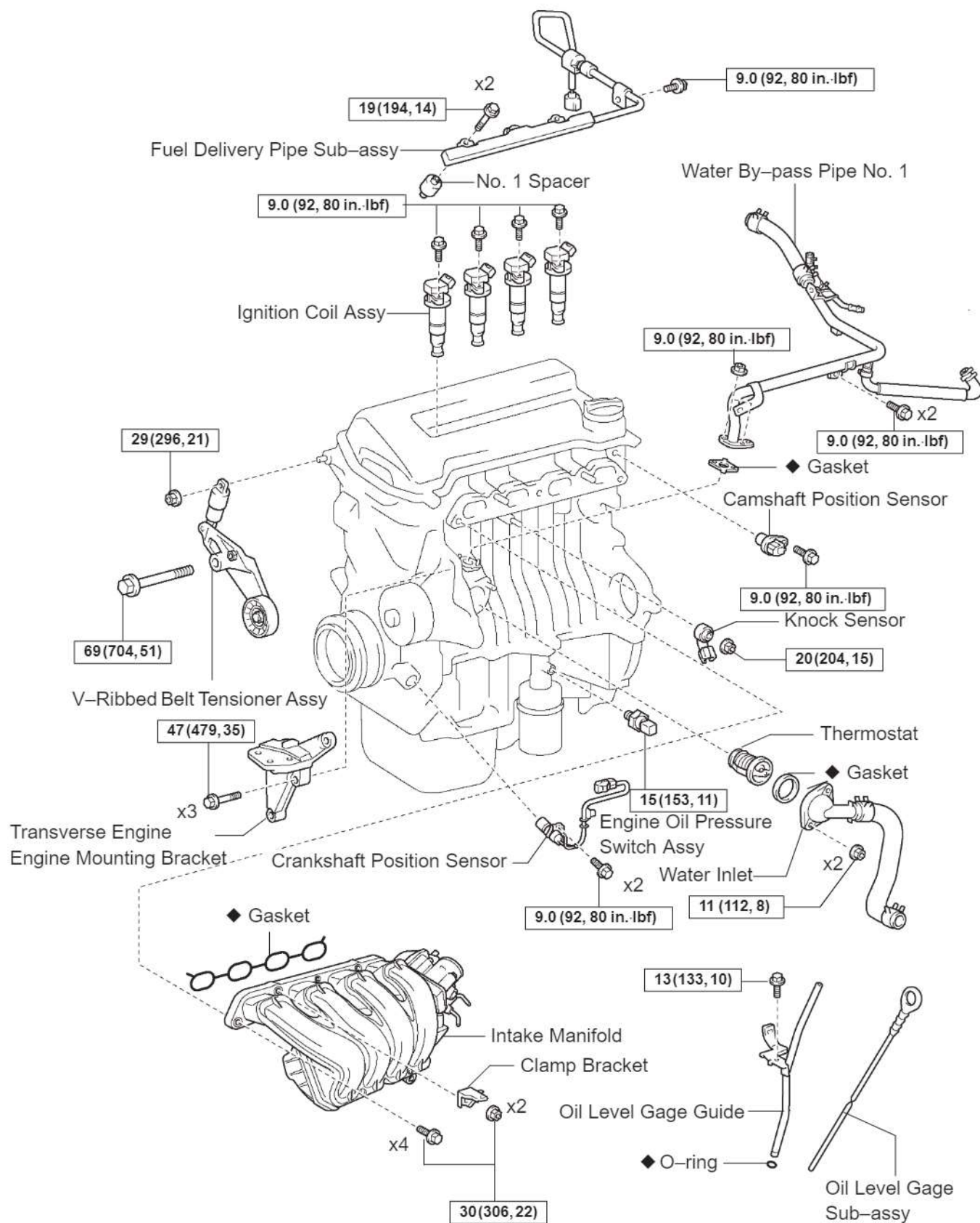


A/T:



N·m (kgf·cm, ft·lbf): Specified torque

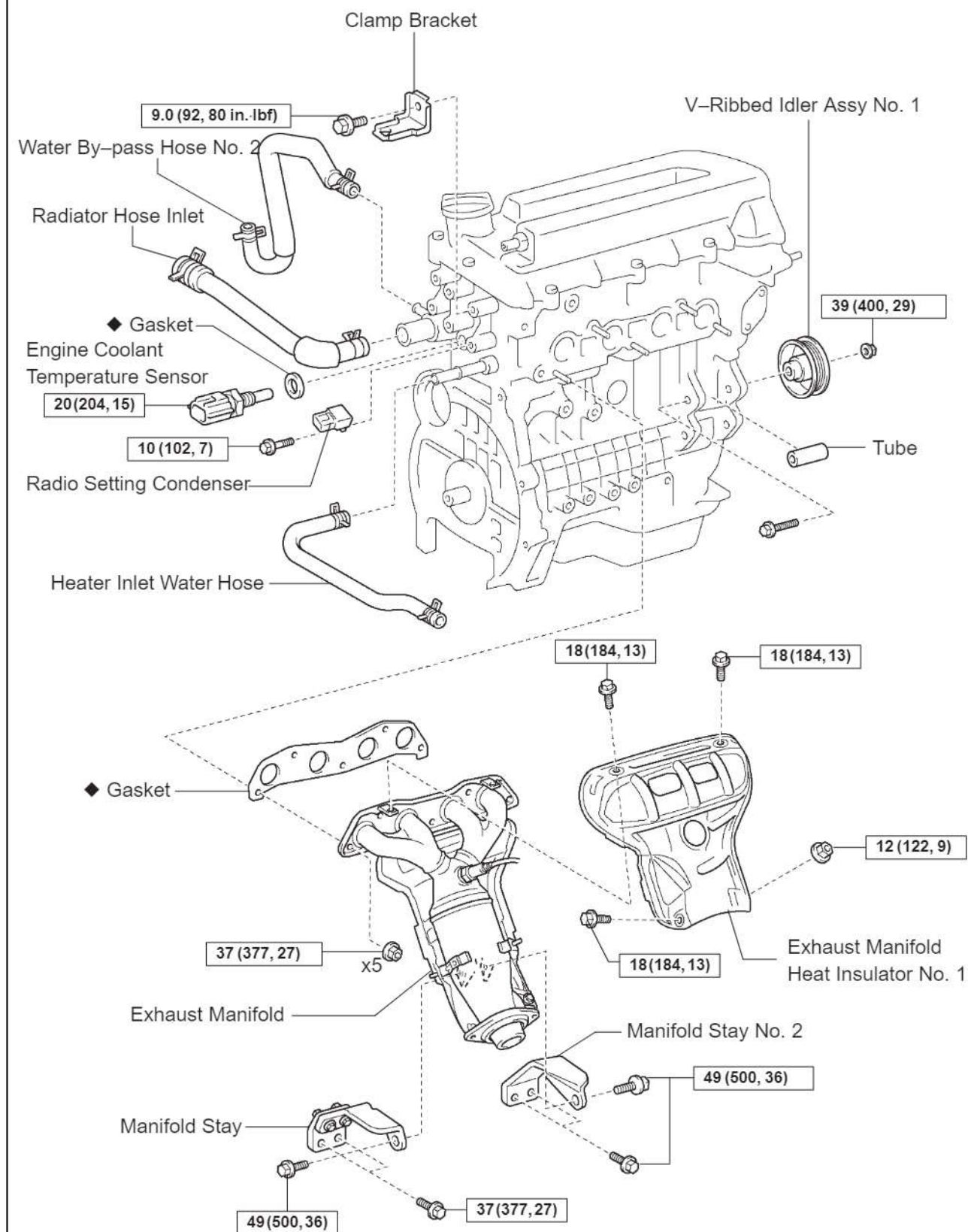
A93672



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

A93673



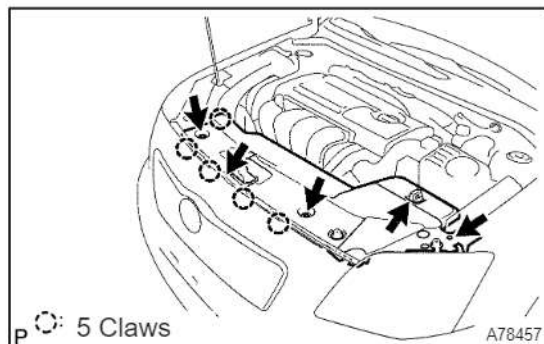
N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

A93674

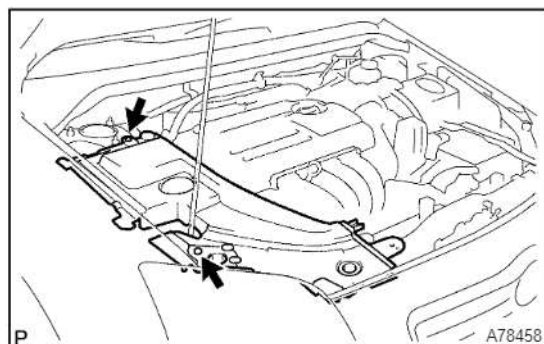
REPLACEMENT

1. DISCHARGE FUEL SYSTEM PRESSURE (See Pub. No. RM1018E on page 11-1)



2. REMOVE RADIATOR SUPPORT OPENING COVER

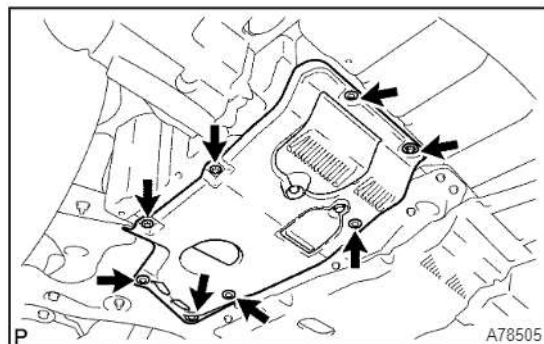
- (a) Remove the retainer and 4 clips.
- (b) Unfasten the 5 claws, then remove the radiator support opening cover.



3. REMOVE ENGINE ROOM COVER SIDE

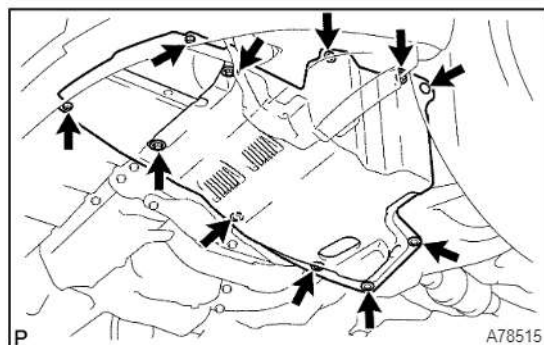
- (a) Remove the 2 clips and engine room cover side.

4. REMOVE FRONT WHEELS



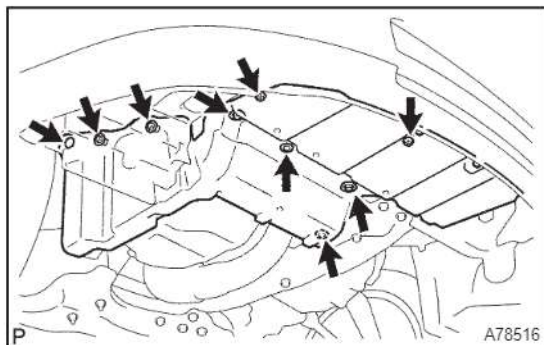
5. REMOVE ENGINE UNDER COVER SUB-ASSY NO.1

- (a) Remove the 5 clips, 2 screws and bolt, then detach the engine under cover.



6. REMOVE ENGINE UNDER COVER LH

- (a) Remove the 6 screws and 5 clips, then detach the engine under cover.

**7. REMOVE ENGINE UNDER COVER RH**

- (a) Remove the 6 screws and 3 clips, then detach the engine under cover.

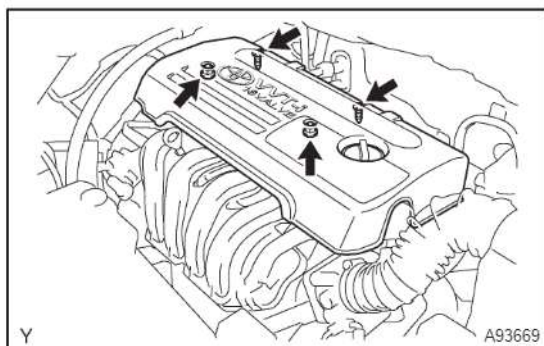
8. DRAIN ENGINE COOLANT (See page 16-5)**9. DRAIN ENGINE OIL**

- (a) Install a new gasket and the drain plug after draining engine oil.

Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)

10. DRAIN MANUAL TRANSAXLE OIL (M/T TRANSAXLE) (See Pub. No. RM1018E on page 41-15)**11. DRAIN AUTOMATIC TRANSAXLE FLUID (A/T TRANSAXLE)**

(See Pub. No. RM1018E on page 40-42)

**12. REMOVE CYLINDER HEAD COVER NO.2**

- (a) Remove the 2 nuts and 2 clips, then detach cylinder head cover No.2.

13. REMOVE AIR CLEANER ASSEMBLY WITH HOSE (See page 10-6)**14. REMOVE AIR CLEANER FILTER ELEMENT SUB-ASSY****15. REMOVE AIR CLEANER CASE SUB-ASSY**

- (a) Remove the 3 bolts and air cleaner case.

16. DISCONNECT RADIATOR HOSE INLET

- (a) Disconnect the radiator hose inlet from the radiator.

17. DISCONNECT RADIATOR HOSE OUTLET

- (a) Disconnect the radiator hose outlet from the radiator.

18. DISCONNECT OIL COOLER INLET HOSE NO.1 (A/T TRANSAXLE)

- (a) Disconnect the oil cooler inlet hose from the radiator.

19. DISCONNECT OIL COOLER OUTLET HOSE NO.1 (A/T TRANSAXLE)

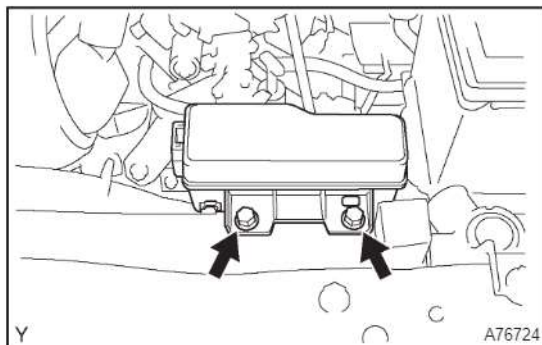
- (a) Disconnect the oil cooler outlet hose from the radiator.

20. DISCONNECT OIL COOLER INLET TUBE NO.1 (A/T TRANSAXLE)

- (a) Disconnect the oil cooler inlet tube from the radiator.

21. DISCONNECT OIL COOLER OUTLET TUBE NO.1 (A/T TRANSAXLE)

- (a) Disconnect the oil cooler outlet tube from the radiator.

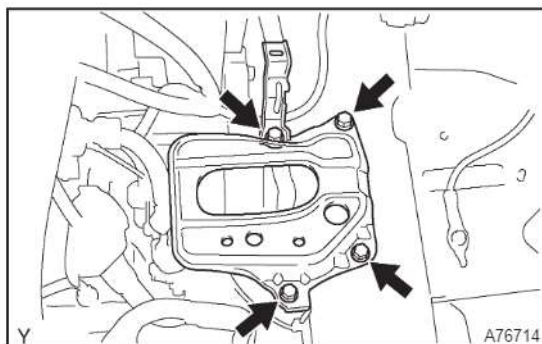


22. REMOVE RADIATOR ASSY

- (a) Remove the 2 bolts and relay block.
- (b) Disconnect the connector and 2 harness clamps.
- (c) Remove the 2 bolts, 2 radiator support uppers and radiator.

23. REMOVE BATTERY

24. REMOVE BATTERY TRAY



25. REMOVE BATTERY CARRIER

- (a) Remove the 4 bolts, battery carrier and bracket.

26. REMOVE EFI FUEL PIPE CLAMP

(See Pub. No. RM1018E on page 11-11)

27. DISCONNECT FUEL TUBE SUB-ASSY

(See Pub. No. RM1018E on page 11-11)

28. DISCONNECT UNION TO CONNECTOR TUBE HOSE

- (a) Disconnect the union to connector tube hose.

29. DISCONNECT HEATER INLET WATER HOSE

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

30. DISCONNECT HEATER OUTLET WATER HOSE

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

31. SEPARATE FLOOR SHIFT CABLE TRANSMISSION CONTROL SELECT (M/T TRANSAXLE)

(See Pub. No. RM1018E on page 41-15)

32. SEPARATE FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (M/T TRANSAXLE)

(See Pub. No. RM1018E on page 41-15)

33. SEPARATE FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (A/T TRANSAXLE)

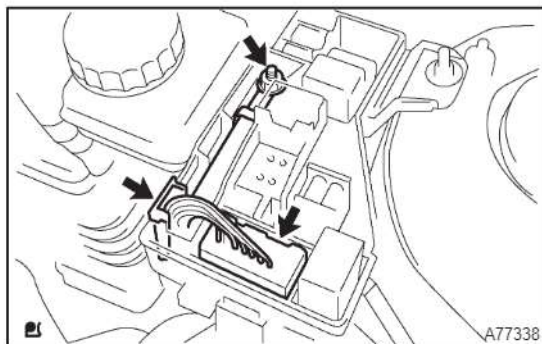
(See Pub. No. RM1018E on page 40-11)

34. SEPARATE CLUTCH RELEASE CYLINDER ASSY (M/T TRANSAXLE)

(See Pub. No. RM1018E on page 41-15)

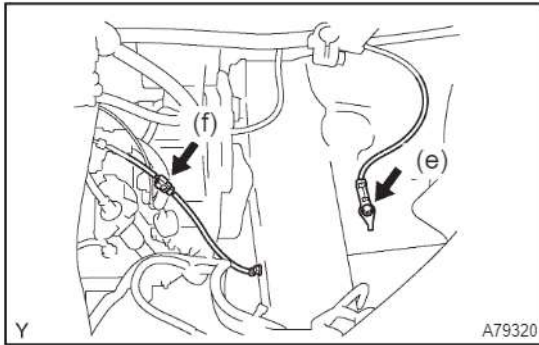
35. REMOVE GLOVE COMPARTMENT DOOR ASSY (See Pub. No. RM1018E on page 71-11)

36. REMOVE INSTRUMENT PANEL UNDER COVER SUB-ASSY NO.2

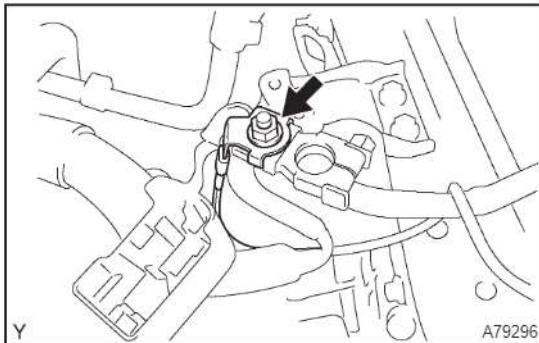


37. DISCONNECT ENGINE WIRE

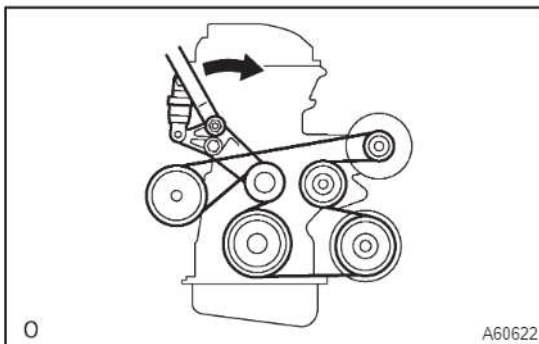
- (a) Disconnect the engine wire from the ECM and junction block.
- (b) Pull out the engine wire.
- (c) Remove the engine room relay block No.2 cover.
- (d) Remove a nut, then disconnect a connector as shown in the illustration.



- (e) Remove the bolt, then disconnect the ground terminal.
- (f) Disconnect the ground terminal connector.



- (g) Remove the nut and disconnect battery terminal B.



38. REMOVE FAN AND GENERATOR V BELT

- (a) Turn the V-ribbed belt tensioner clockwise slowly and loosen it. Then, remove the fan and generator V belt and put back the V-ribbed belt tensioner carefully.

39. REMOVE GENERATOR ASSY (See Pub. No. RM1018E on page 19-7)

40. SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING)

HINT:

- Secure the compressor and hoses off to the side instead of discharging the A/C system.
- 1ZZ-FE (See Pub. No. RM1018E on page 55-74)
- 3ZZ-FE (See Pub. No. RM1018E on page 55-70)

41. REMOVE COLUMN HOLE COVER SILENCER SHEET

- (a) Remove the 2 clips and column hole cover silencer sheet.

42. SEPARATE STEERING INTERMEDIATE SHAFT (See Pub. No. RM1018E on page 50-9)

43. REMOVE FRONT DOOR SCUFF PLATE RH (See Pub. No. RM1018E on page 71-11)

44. REMOVE COWL SIDE TRIM BOARD RH (See Pub. No. RM1018E on page 71-11)

45. REMOVE FRONT FLOOR FOOTREST (RHD STEERING POSITION TYPE)

46. REMOVE FLOOR PANEL BRACE FRONT

- (a) Remove the 2 nuts and floor panel brace front.

47. REMOVE EXHAUST PIPE ASSY FRONT (See Pub. No. RM1018E on page 15-2)

48. REMOVE FRONT AXLE HUB LH NUT (See Pub. No. RM1018E on page 30-6)

SST 09930-00010

49. REMOVE FRONT AXLE HUB RH NUT

SST 09930-00010

HINT:

Perform the same procedure as above on the opposite side.

50. SEPARATE TIE ROD END SUB-ASSY LH (See Pub. No. RM1018E on page 30-6)

SST 09628-62011

51. SEPARATE TIE ROD END SUB-ASSY RH

SST 09628-62011

HINT:

Perform the same procedure as above on the opposite side.

52. SEPARATE FRONT STABILIZER LINK ASSY LH (See Pub. No. RM1018E on page 30-6)

53. SEPARATE FRONT STABILIZER LINK ASSY RH

HINT:

Perform the same procedure as above on the opposite side.

54. SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

(See Pub. No. RM1018E on page 30-6)

55. SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 RH

HINT:

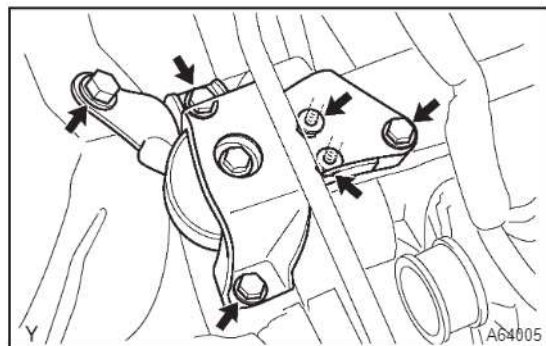
Perform the same procedure as above on the opposite side.

56. SEPARATE FRONT AXLE ASSY LH (See Pub. No. RM1018E on page 30-6)

57. SEPARATE FRONT AXLE ASSY RH

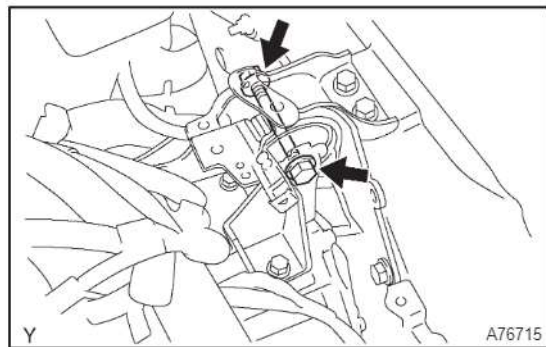
HINT:

Perform the same procedure as above on the opposite side.

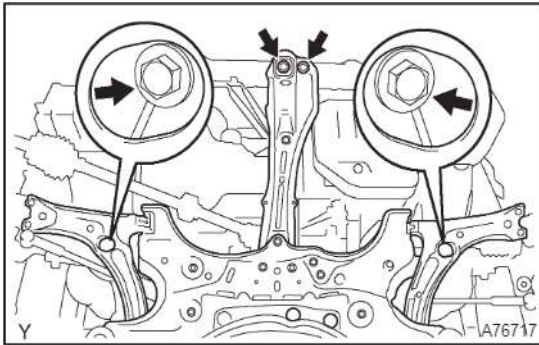


58. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE

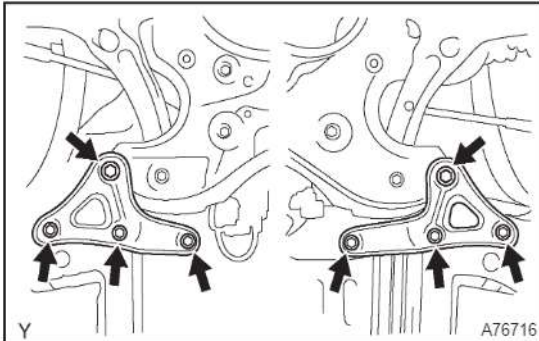
- (a) Set the engine lifter.
- (b) Remove the 4 bolts and 2 nuts, then detach the engine mounting insulator.



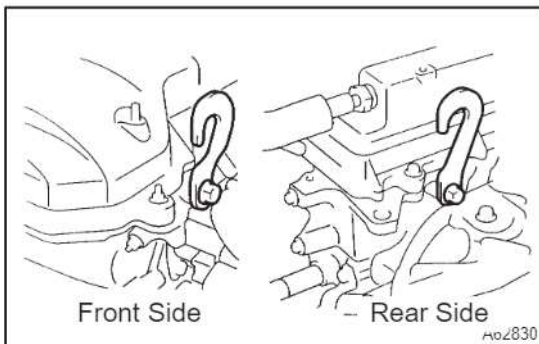
- (c) Remove the through bolt and nut, then detach the engine mounting insulator from the vehicle.



- (d) Remove the 2 bolts and 2 nuts as shown in the illustration.



- (e) Remove the 8 bolts and front suspension member brace rear RH and LH.
(f) Carefully remove the engine with transaxle from the engine compartment.

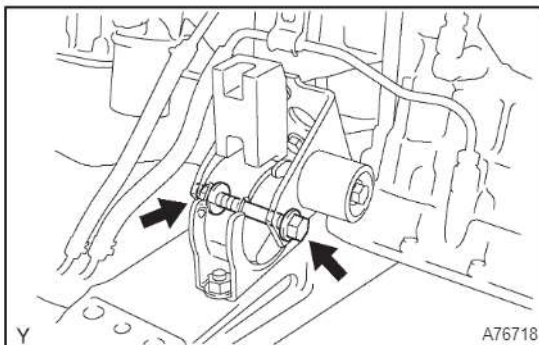


- (g) Install the engine hanger No. 1 (12281-15040) and bolt (91512-B1016).
Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)
(h) Install the engine hanger (12281-22021) and bolt (91512-B1016).
Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)

HINT:

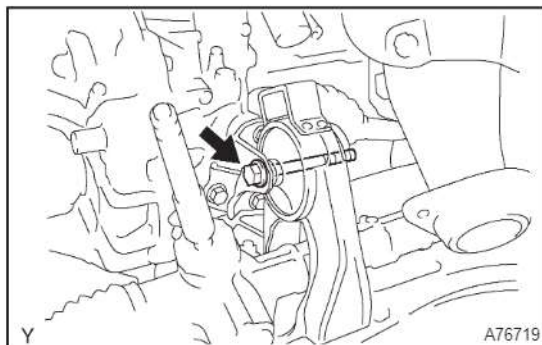
Securely install the front engine hanger (12281-22021) and rear engine hanger No. 1 (12281-15040) onto the engine assembly.

- (i) Attach the engine sling, then hang the engine with the chain block.



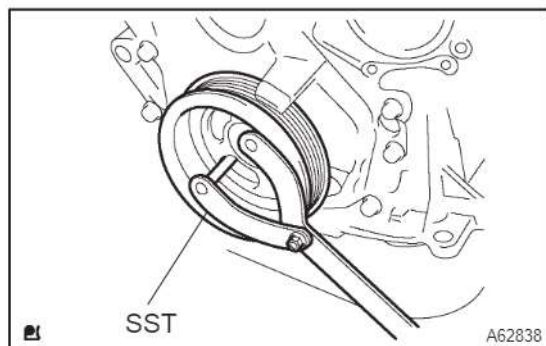
59. REMOVE FRONT SUSPENSION CROSSMEMBER W/CENTER MEMBER

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

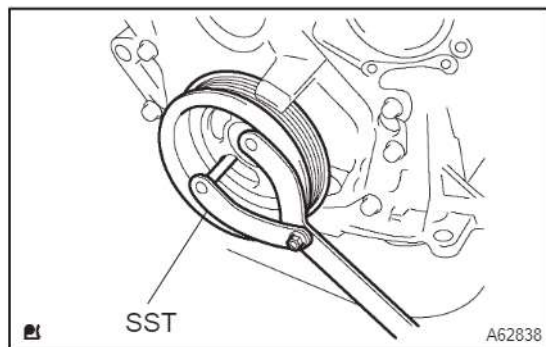


- (b) Remove the through bolt, then detach the engine mounting insulator RR from the suspension crossmember.
- (c) Separate the engine and the transaxle assembly from the suspension crossmember and engine mounting member.

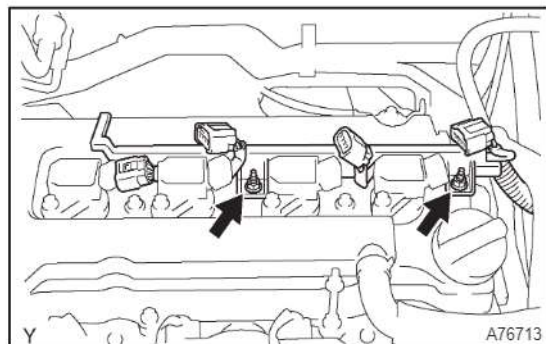
- 60. REMOVE STARTER ASSY (See Pub. No. RM1018E on page 19-3)
- 61. REMOVE MANUAL TRANSAXLE ASSY (M/T TRANSAXLE)
(See Pub. No. RM1018E on page 41-15)
- 62. REMOVE AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE)
(See Pub. No. RM1018E on page 40-11)
- 63. REMOVE CLUTCH COVER ASSY (M/T TRANSAXLE) (See Pub. No. RM1018E on page 42-26)
- 64. REMOVE CLUTCH DISC ASSY (M/T TRANSAXLE) (See Pub. No. RM1018E on page 42-26)



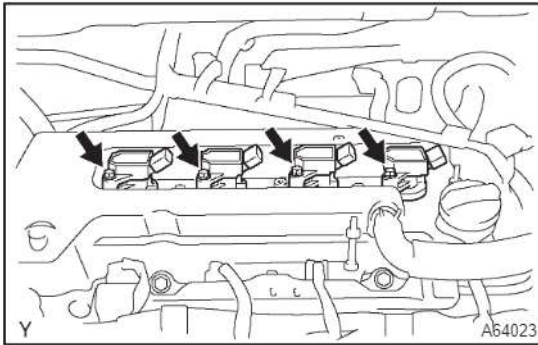
- 65. REMOVE FLYWHEEL SUB-ASSY (M/T TRANSAXLE)
- (a) Hold the crankshaft with SST, then remove the 8 bolts and flywheel.
SST 09960-10010 (09962-01000, 09963-01000)



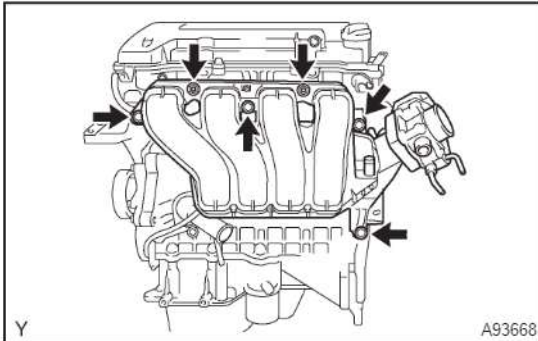
- 66. REMOVE DRIVE PLATE & RING GEAR SUB-ASSY (A/T TRANSAXLE)
- (a) Hold the crankshaft with SST, then remove the 8 bolts and drive plate & ring gear.
SST 09960-10010 (09962-01000, 09963-01000)
- 67. REMOVE IGNITION COIL ASSY
- (a) Disconnect the 4 ignition coil connectors.



- (b) Remove the 2 nuts which are used to secure the engine wire.



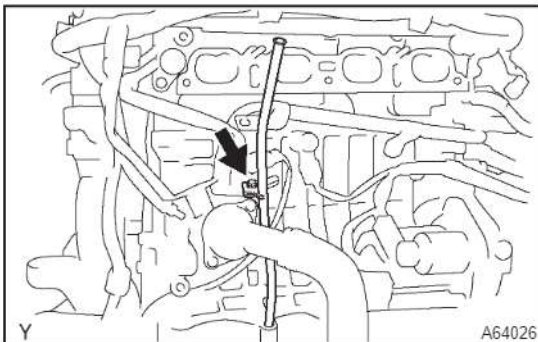
- (c) Remove the 4 bolts and 4 ignition coils.
- 68. REMOVE FUEL DELIVERY PIPE SUB-ASSY**
(See Pub. No. RM1018E on page 11-11)



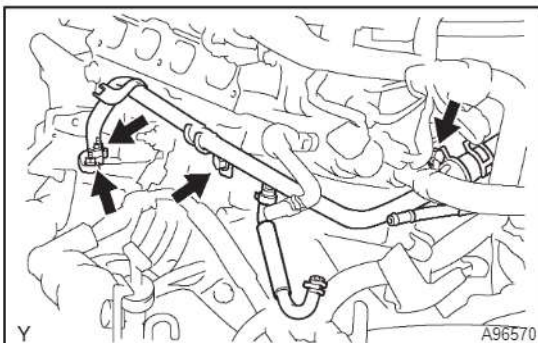
- 69. REMOVE INTAKE MANIFOLD**
- Disconnect the throttle motor connector.
 - Disconnect the 2 water hoses from the throttle body.
 - Disconnect the ventilation hose and ventilation hose No. 2 from the cylinder head cover.
 - Disconnect the vacuum hose from water by-pass pipe No. 1.
 - Remove the 4 bolts, 2 nuts and 2 wire brackets, then remove the intake manifold and throttle body assembly.
 - Remove the gasket from the intake manifold and the throttle body assembly.

70. REMOVE OIL LEVEL GAGE SUB-ASSY

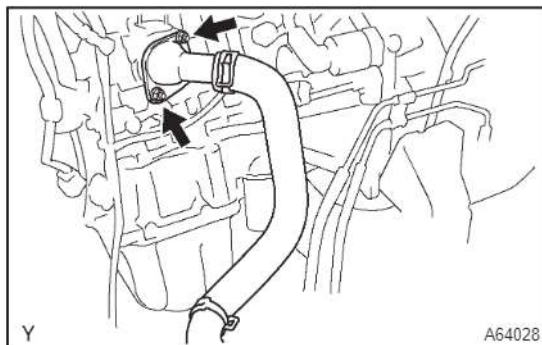
- (a) Remove the oil level gage from the oil level gage guide.



- 71. REMOVE OIL LEVEL GAGE GUIDE**
- Disconnect the crankshaft position sensor clamp.
 - Remove the bolt and oil level gage guide.



- 72. REMOVE WATER BY-PASS PIPE NO.1**
- Disconnect the knock sensor clamp.
 - Remove the 2 bolts and 2 nuts, then detach the water by-pass pipe and gasket.

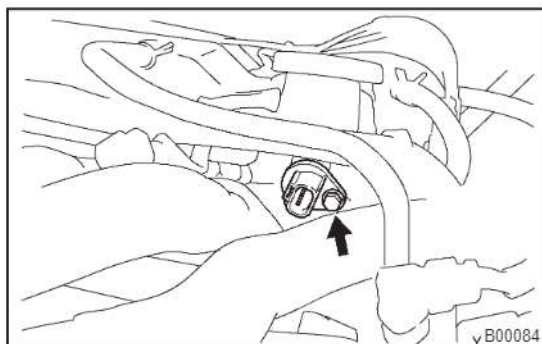


73. REMOVE WATER INLET

- (a) Remove the 2 nuts and water inlet.

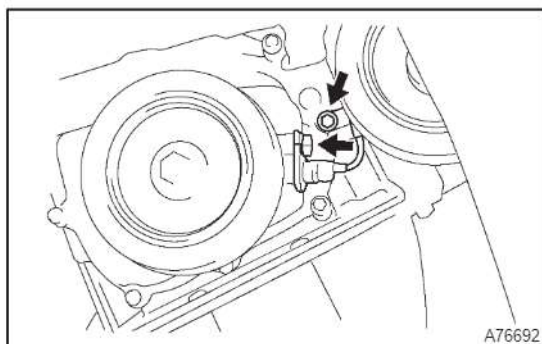
74. REMOVE THERMOSTAT

- 75. REMOVE ENGINE OIL PRESSURE SWITCH ASSY**
(See Pub. No. RM1018E on page 17-1)



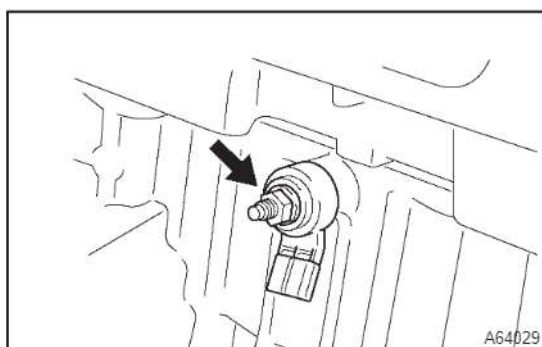
76. REMOVE CAMSHAFT POSITION SENSOR

- (a) Remove the bolt and camshaft position sensor.



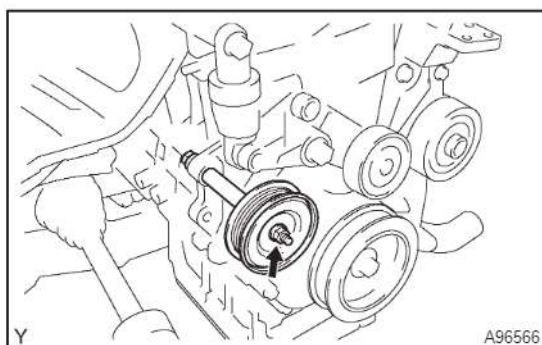
77. REMOVE CRANKSHAFT POSITION SENSOR

- (a) Remove the 2 bolts and crankshaft position sensor.



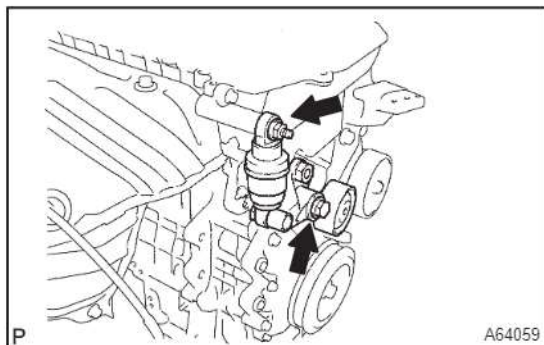
78. REMOVE KNOCK SENSOR

- (a) Remove the nut and knock sensor.

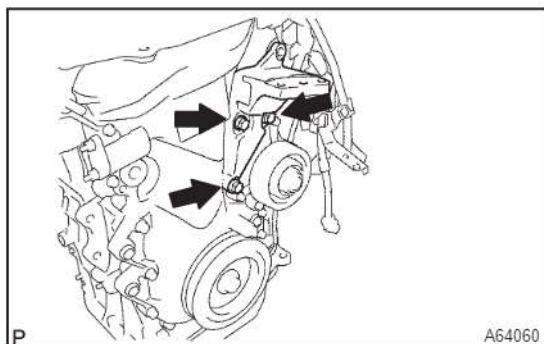


79. REMOVE V-RIBBED IDLER ASSY NO.1

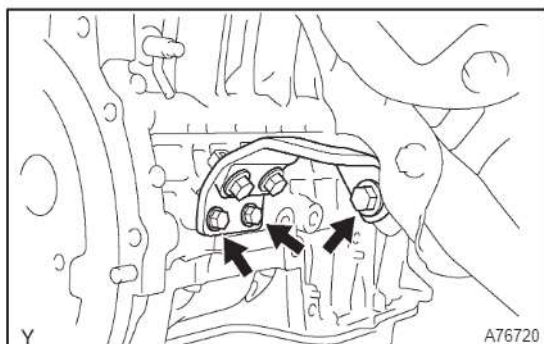
- (a) Remove the nut, bolt, tube and idler.

**80. REMOVE V-RIBBED BELT TENSIONER ASSY**

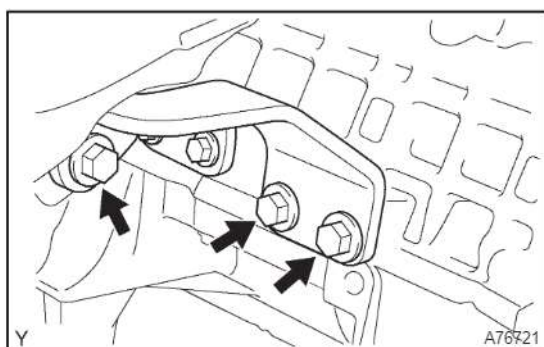
- (a) Remove the bolt, nut and V-ribbed belt tensioner.

**81. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET**

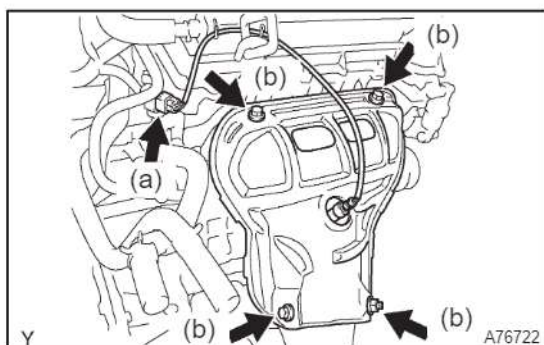
- (a) Remove the 3 bolts and transverse engine mounting bracket.

**82. REMOVE MANIFOLD STAY**

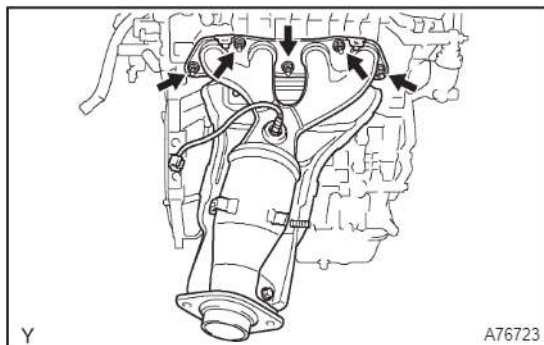
- (a) Remove the 3 bolts and manifold stay.

**83. REMOVE MANIFOLD STAY NO.2**

- (a) Remove the 3 bolts and manifold stay.

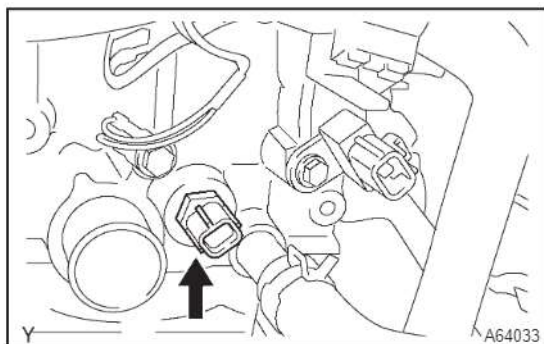
**84. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO.1**

- (a) Disconnect the heated oxygen sensor connector.
 (b) Remove the 3 bolts and nut, then remove the exhaust manifold heat insulator.



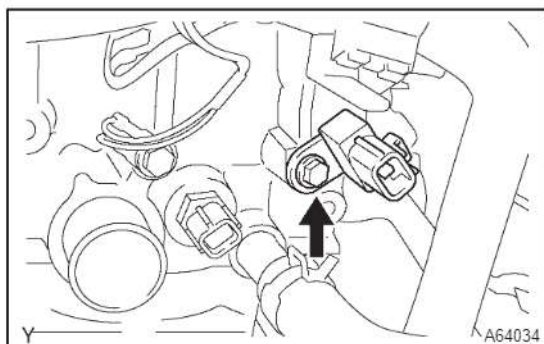
85. REMOVE EXHAUST MANIFOLD

- (a) Remove the 5 nuts, then remove the exhaust manifold and gasket.



86. REMOVE ENGINE COOLANT TEMPERATURE SENSOR

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



87. REMOVE RADIO SETTING CONDENSER

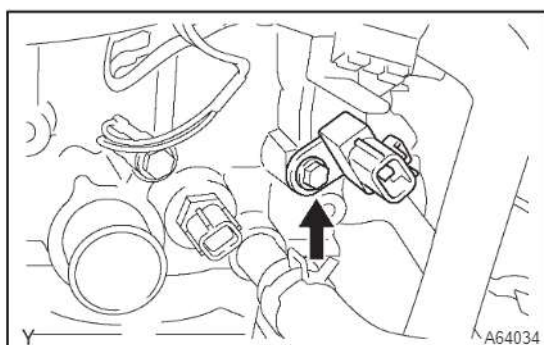
- (a) Remove the bolt and condenser.

88. REMOVE WATER BY-PASS HOSE NO.2

89. REMOVE RADIATOR HOSE INLET

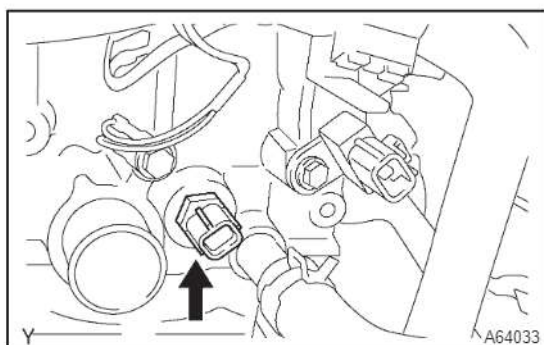
90. REMOVE HEATER INLET WATER HOSE

91. REPLACE PARTIAL ENGINE ASSY



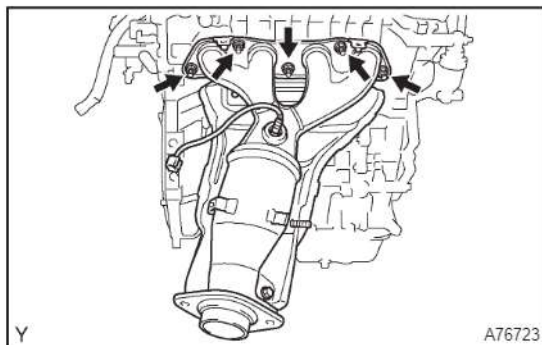
92. INSTALL RADIO SETTING CONDENSER

- (a) Install the condenser with the bolt.
Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)



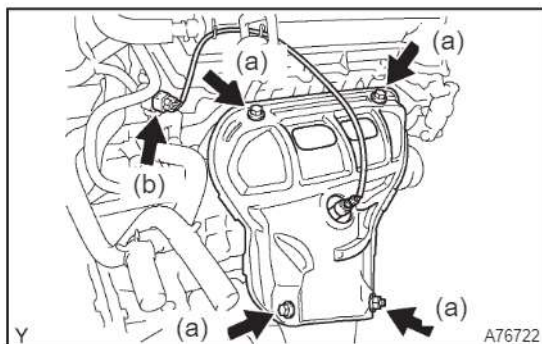
93. INSTALL ENGINE COOLANT TEMPERATURE SENSOR

- (a) Install a new gasket onto the engine coolant temperature sensor.
- (b) Using SST, install the engine coolant temperature sensor.
SST 09817-33190
Torque: 20 N·m (204 kgf·cm, 15 ft·lbf)

**94. INSTALL EXHAUST MANIFOLD**

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

Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)

**95. INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.1**

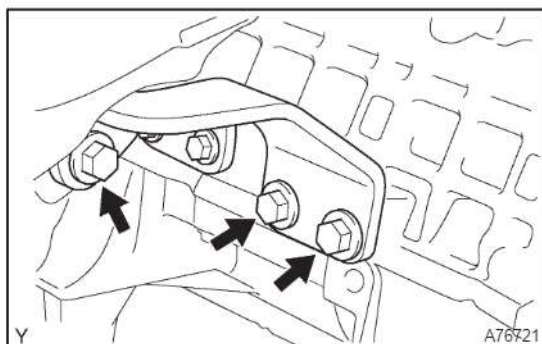
- (a) Install the exhaust manifold heat insulator, then install the 3 bolts and nut.

Torque:

18 N·m (184 kgf·cm, 13 ft·lbf) for bolt

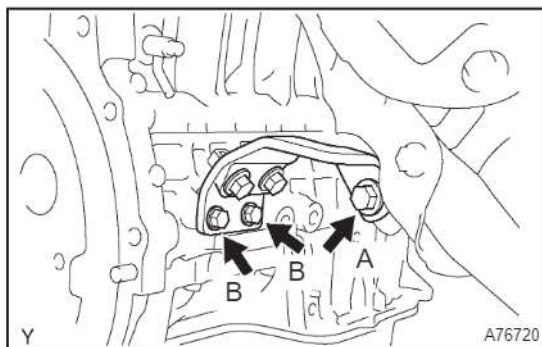
12 N·m (122 kgf·cm, 9 ft·lbf) for nut

- (b) Connect the heated oxygen sensor connector.

**96. INSTALL MANIFOLD STAY NO.2**

- (a) Install the manifold stay with the 3 bolts.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

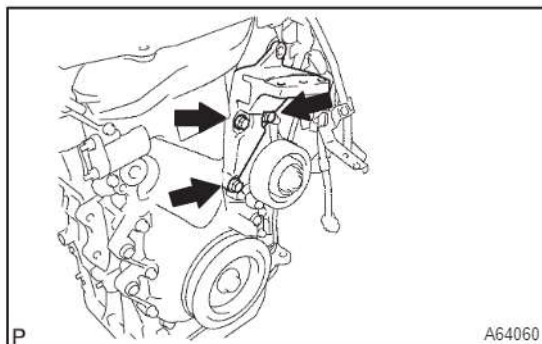
**97. INSTALL MANIFOLD STAY**

- (a) Install the manifold stay with the 3 bolts.

Torque:

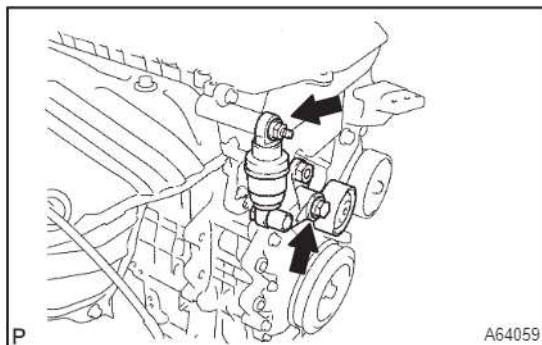
49 N·m (500 kgf·cm, 36 ft·lbf) for A

37 N·m (377 kgf·cm, 27 ft·lbf) for B

**98. INSTALL TRANSVERSE ENGINE MOUNTING BRACKET**

- (a) Install the transverse engine mounting bracket with the 3 bolts.

Torque: 47 N·m (479 kgf·cm, 35 ft·lbf)



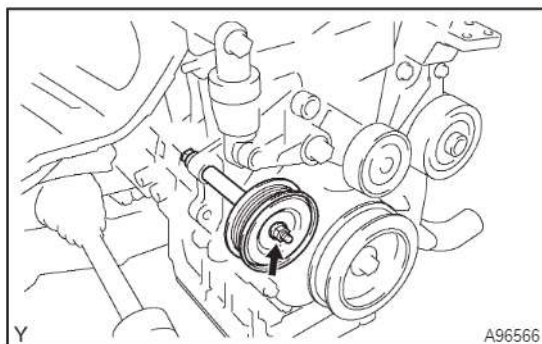
99. INSTALL V-RIBBED BELT TENSIONER ASSY

- (a) Install the V-ribbed belt tensioner with the bolt and nut.

Torque:

29 N·m (296 kgf·cm, 21 ft·lbf) for nut

69 N·m (704 kgf·cm, 51 ft·lbf) for bolt



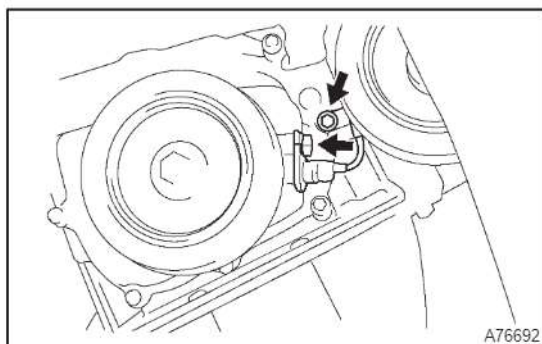
100. INSTALL V-RIBBED IDLER ASSY NO.1

- (a) Install the tube and idler with the nut and bolt.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

101. INSTALL KNOCK SENSOR

(See Pub. No. RM1018E on page 10-17)

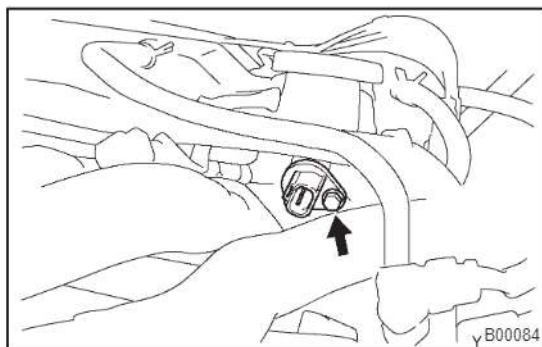


102. INSTALL CRANKSHAFT POSITION SENSOR

- (a) Apply a light coat of engine oil to the O-ring on the crankshaft position sensor.

- (b) Install the crankshaft position sensor with the 2 bolts.

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



103. INSTALL CAMSHAFT POSITION SENSOR

- (a) Apply a light coat of engine oil to the O-ring on the camshaft position sensor.

- (b) Install the camshaft position sensor with the bolt.

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

104. INSTALL ENGINE OIL PRESSURE SWITCH ASSY

(See Pub. No. RM1018E on page 17-1)

Adhesive: Part No.08833 – 00080, THREE BOND 1344.

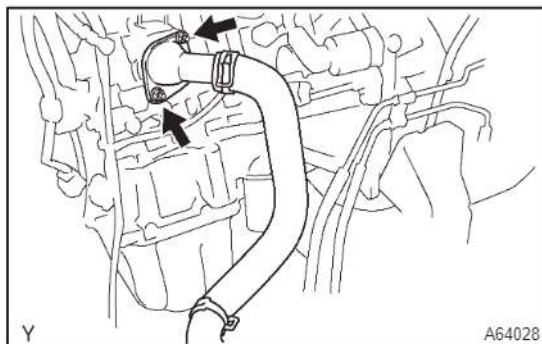
105. INSTALL THERMOSTAT

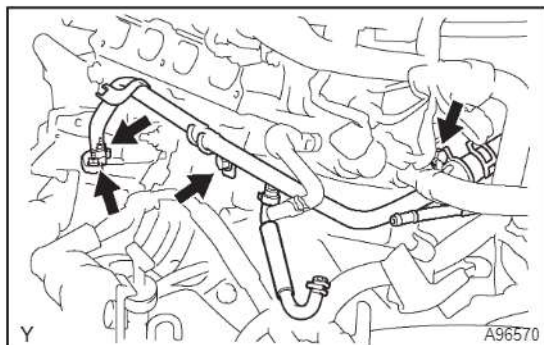
(See Pub. No. RM1018E on page 16-9)

106. INSTALL WATER INLET

- (a) Install the water inlet with the 2 nuts.

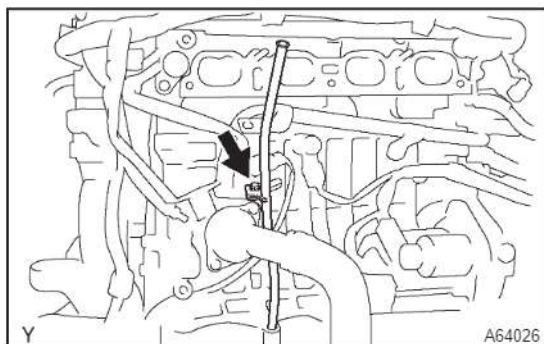
Torque: 11 N·m (112 kgf·cm, 8 ft·lbf)



**107. INSTALL WATER BY-PASS PIPE NO.1**

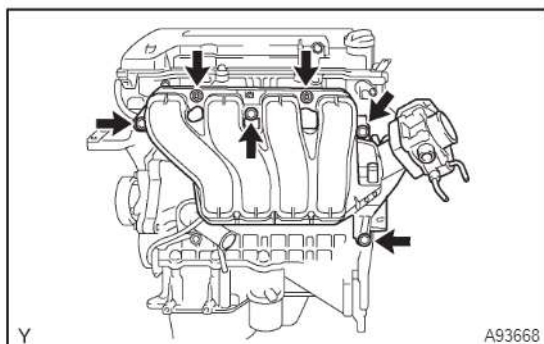
- (a) Install a new gasket and water by-pass pipe with the 2 nuts and 2 bolts.

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

**108. INSTALL OIL LEVEL GAGE GUIDE**

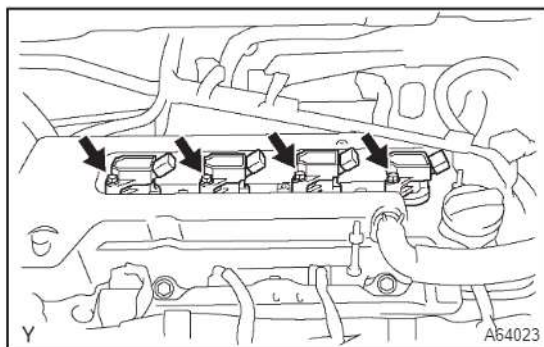
- (a) Apply a light coat of engine oil to a new O-ring and install it onto the oil level gage guide.
- (b) Install the oil level gage guide with the bolt.

Torque: 13 N·m (133 kgf·cm, 10 ft.-lbf)

**109. INSTALL INTAKE MANIFOLD**

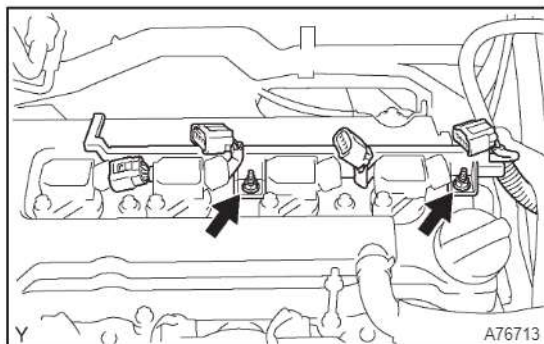
- (a) Install a new gasket onto the intake manifold.
- (b) Install the intake manifold and 2 clamp brackets with the 2 nuts and 4 bolts.

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

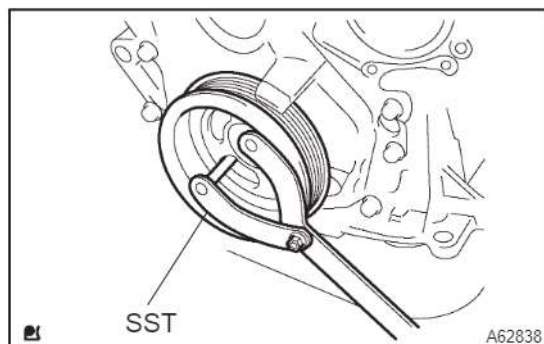
110. INSTALL FUEL DELIVERY PIPE SUB-ASSY
(See Pub. No. RM1018E on page 11-11)**111. INSTALL IGNITION COIL ASSY**

- (a) Install the 4 ignition coils with the 4 bolts.

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

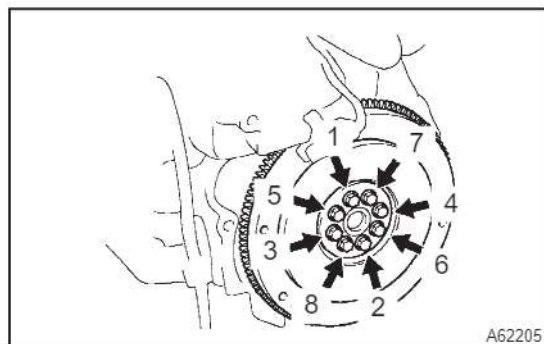


- (b) Install the engine wire with the 2 nuts.
- Torque: 9.0 N·m (92 kgf·cm, 80 in.-lbf)**

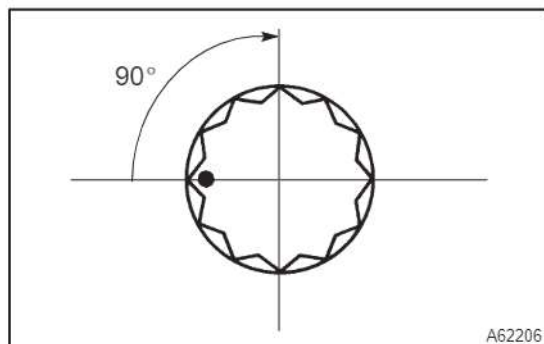


112. INSTALL FLYWHEEL SUB-ASSY (M/T TRANSAXLE)

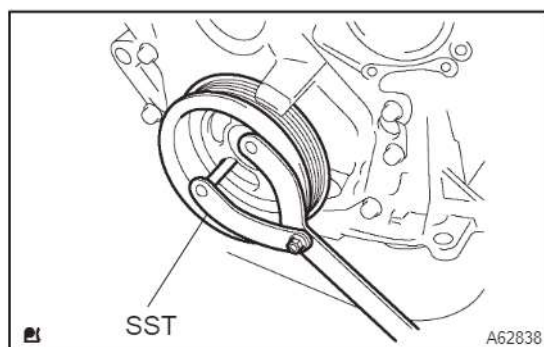
- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)



- (b) Clean the bolt and bolt hole.
(c) Apply adhesive to the bolts.
Adhesive:
Part No. 09330-00070, THREE BOND or equivalent.
(d) Using several steps, install and tighten the 8 bolts uniformly in the sequence shown in the illustration.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

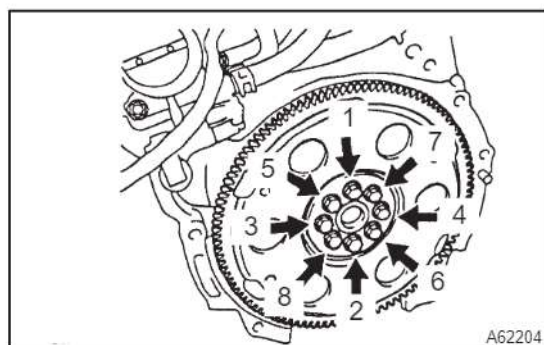


- (e) Mark each bolt head with paint.
(f) Retighten the bolts by an additional 90° in the same sequence as step (d).
(g) Check that the paint marks are at a 90° angle to the original position.



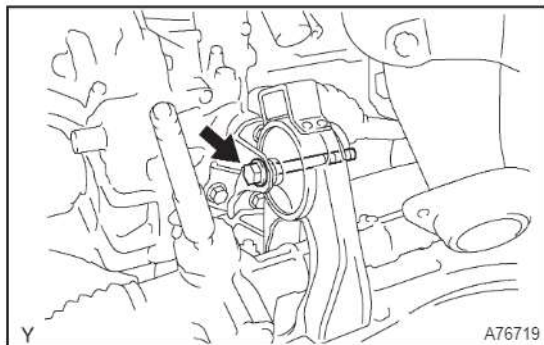
113. INSTALL DRIVE PLATE & RING GEAR SUB-ASSY (A/T TRANSAXLE)

- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)



- (b) Clean the bolt and bolt hole.
(c) Apply adhesive to the bolts.
Adhesive:
Part No. 09330-00070, THREE BOND or equivalent.
(d) Using several steps, install and tighten the 8 bolts uniformly in the sequence shown in the illustration.
Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)

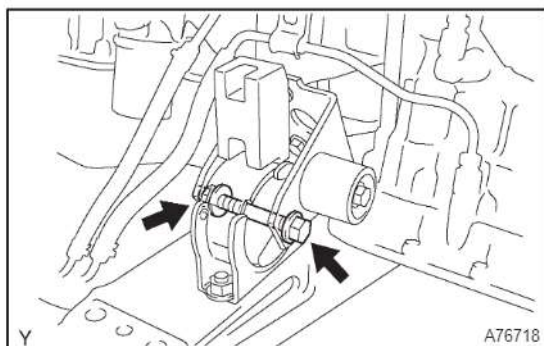
114. INSTALL CLUTCH DISC ASSY (M/T TRANSAXLE) (See Pub. No. RM1018E on page 42-26)
SST 09301-00210
115. INSTALL CLUTCH COVER ASSY (M/T TRANSAXLE) (See Pub. No. RM1018E on page 42-26)
SST 09301-00210
116. INSTALL MANUAL TRANSAXLE ASSY (M/T TRANSAXLE)
(See Pub. No. RM1018E on page 41-15)
117. INSTALL AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE)
(See Pub. No. RM1018E on page 40-11)
118. INSTALL STARTER ASSY (See Pub. No. RM1018E on page 19-3)



119. INSTALL FRONT SUSPENSION CROSSMEMBER W/CENTER MEMBER

- (a) Attach the engine and transaxle assembly to the suspension crossmember and engine mounting member.
- (b) Install the bolt which is used to secure the rear engine mounting bracket onto the mounting insulator.

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



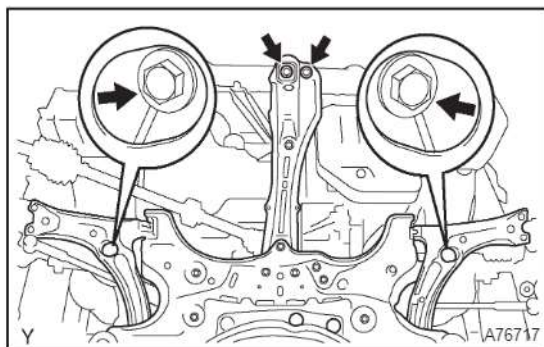
- (c) Install the bolt which is used to secure the front engine mounting bracket onto the mounting insulator.

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

120. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

SST 09670-00010

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



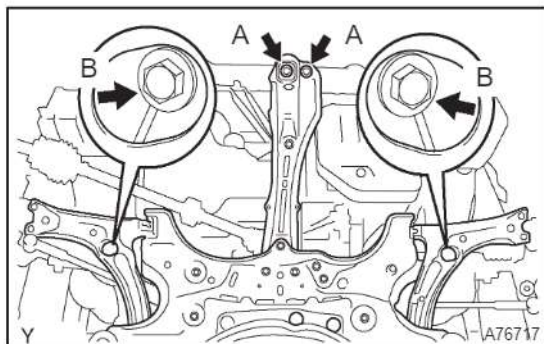
- (b) Temporarily install the suspension crossmember with the 2 bolts and 2 nuts.

- (c) Install the engine mounting insulator LH.

Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

- (d) Install the engine mounting insulator RH.

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

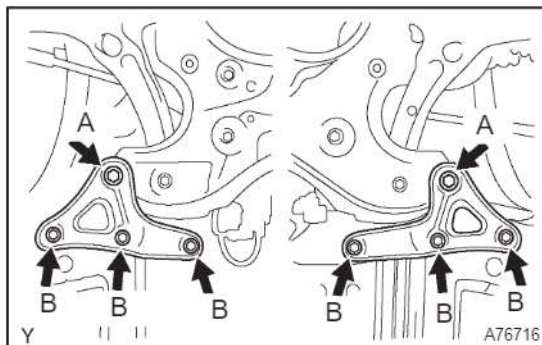


- (e) Tighten the 2 bolts and 2 nuts.

Torque:

45 N·m (459 kgf·cm, 33 ft·lbf) for bolt A

133 N·m (1,356 kgf·cm, 98 ft·lbf) for nut B



- (f) Install the front suspension member brace LH and RH with the 8 bolts.

Torque:

133 N·m (1,356 kgf·cm, 98 ft·lbf) for bolt A

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

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

(See Pub. No. RM1018E on page 30-6)

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

HINT:

Perform the same procedure as above on the opposite side.

123. INSTALL FRONT STABILIZER LINK ASSY LH (See Pub. No. RM1018E on page 30-6)

124. INSTALL FRONT STABILIZER LINK ASSY RH

HINT:

Perform the same procedure as above on the opposite side.

125. INSTALL TIE ROD END SUB-ASSY LH (See Pub. No. RM1018E on page 30-6)

126. INSTALL TIE ROD END SUB-ASSY RH

HINT:

Perform the same procedure as above on the opposite side.

127. INSTALL FRONT AXLE HUB LH NUT (See Pub. No. RM1018E on page 30-6)

128. INSTALL FRONT AXLE HUB RH NUT

HINT:

Perform the same procedure as above on the opposite side.

129. INSTALL EXHAUST PIPE ASSY FRONT (See Pub. No. RM1018E on page 15-2)

130. INSTALL FLOOR PANEL BRACE FRONT

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

131. INSTALL STEERING INTERMEDIATE SHAFT (See Pub. No. RM1018E on page 50-9)

132. INSTALL GENERATOR ASSY (See Pub. No. RM1018E on page 19-7)

133. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING)

HINT:

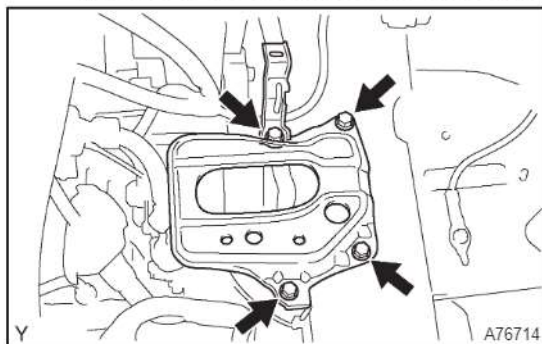
- 1ZZ-FE (See Pub. No. RM1018E on page 55-74)
- 3ZZ-FE (See Pub. No. RM1018E on page 55-70)

134. INSTALL CLUTCH RELEASE CYLINDER ASSY (M/T TRANSAXLE)

(See Pub. No. RM1018E on page 41-15)

135. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (A/T TRANSAXLE)

(See Pub. No. RM1018E on page 40-11)



136. INSTALL BATTERY CARRIER

- (a) Install the battery carrier and bracket with the 4 bolts.

Torque: 13 N·m (131 kgf·cm, 9 ft·lbf)

137. INSTALL BATTERY

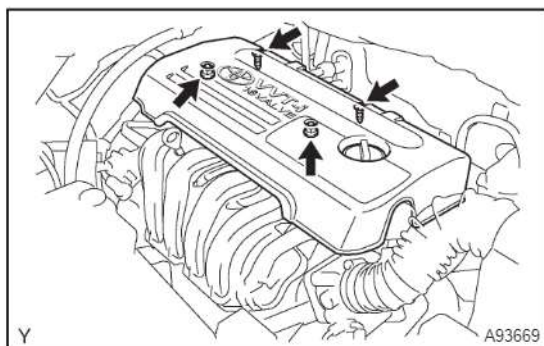
Torque:

5.0 N·m (51 kgf·cm, 44 in·lbf) for bolt**3.5 N·m (36 kgf·cm, 31 in·lbf) for nut****138. INSTALL RADIATOR SUPPORT NO.1**

- (a) Install the 2 radiator supports with the 2 bolts.

Torque: **19 N·m (194 kgf·cm, 14 ft·lbf)****139. INSTALL AIR CLEANER CASE SUB-ASSY**

- (a) Install the air cleaner case with the 3 bolts.

Torque: **5.0 N·m (51 kgf·cm, 44 in·lbf)****140. INSTALL AIR CLEANER ASSEMBLY WITH HOSE (See page 10-6)****141. INSTALL CYLINDER HEAD COVER NO.2**

- (a) Install the cylinder head cover with the 2 nuts and 2 clips.

Torque: **7.0 N·m (71 kgf·cm, 62 in·lbf)****142. INSTALL FRONT WHEELS**Torque: **103 N·m (1,050 kgf·cm, 76 ft·lbf)****143. ADD AUTOMATIC TRANSAXLE FLUID (A/T TRANSAXLE)****144. ADD ENGINE OIL****145. ADD ENGINE COOLANT (See page 16-5)****146. CHECK FOR ENGINE OIL LEAKS****147. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)****148. CHECK FOR FUEL LEAKS****149. CHECK FOR EXHAUST GAS LEAKS****150. CHECK IDLE SPEED AND IGNITION TIMING (See Pub. No. RM1018E on page 14-1)**

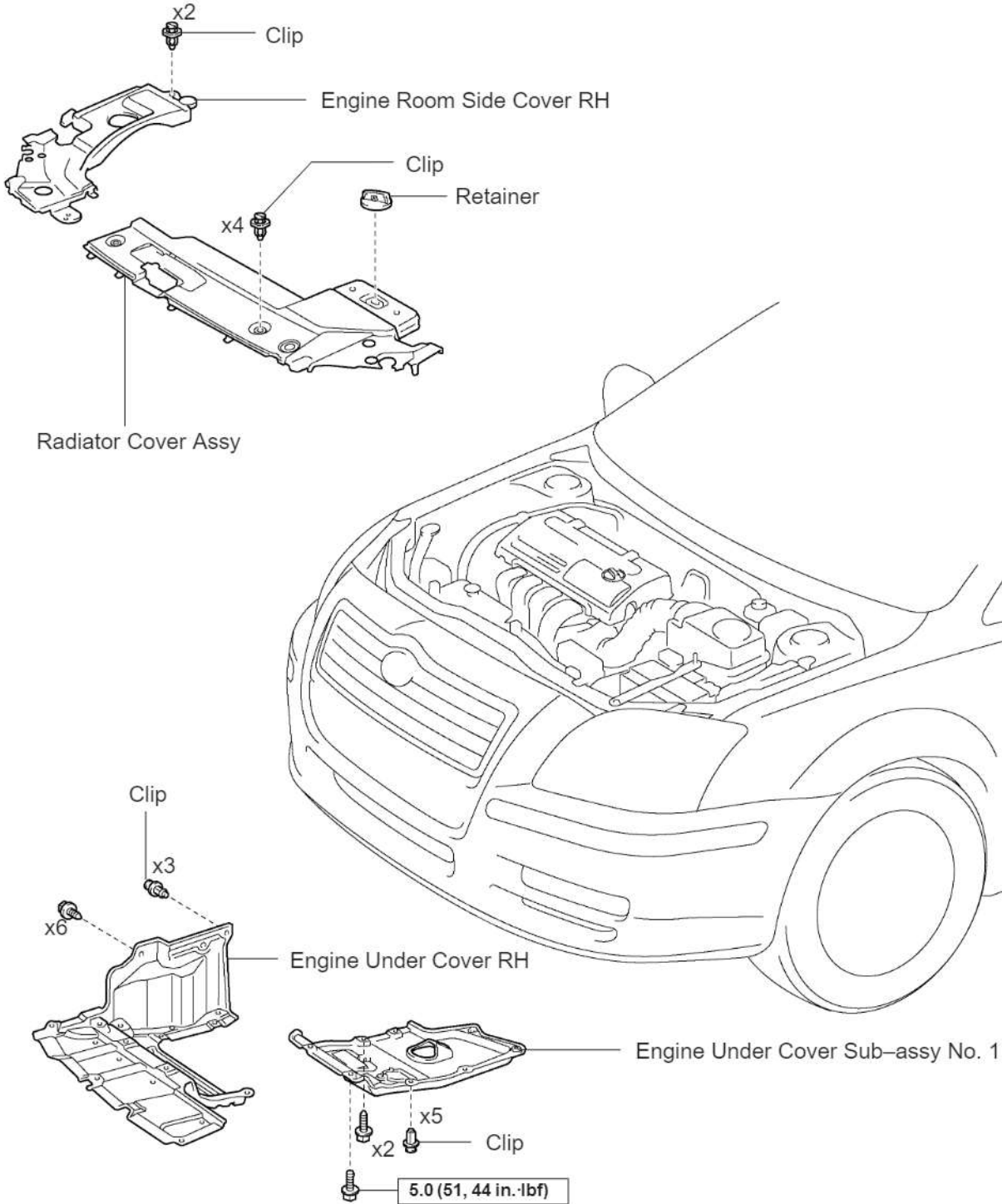
SST 09843-18040

151. INSPECT CO/HC (See Pub. No. RM1018E on page 14-1)**152. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See Pub. No. RM1018E on page 26-6)****153. CHECK ABS SPEED SENSOR SIGNAL**

CYLINDER HEAD GASKET (1ZZ-FE/3ZZ-FE)(From February, 2004)

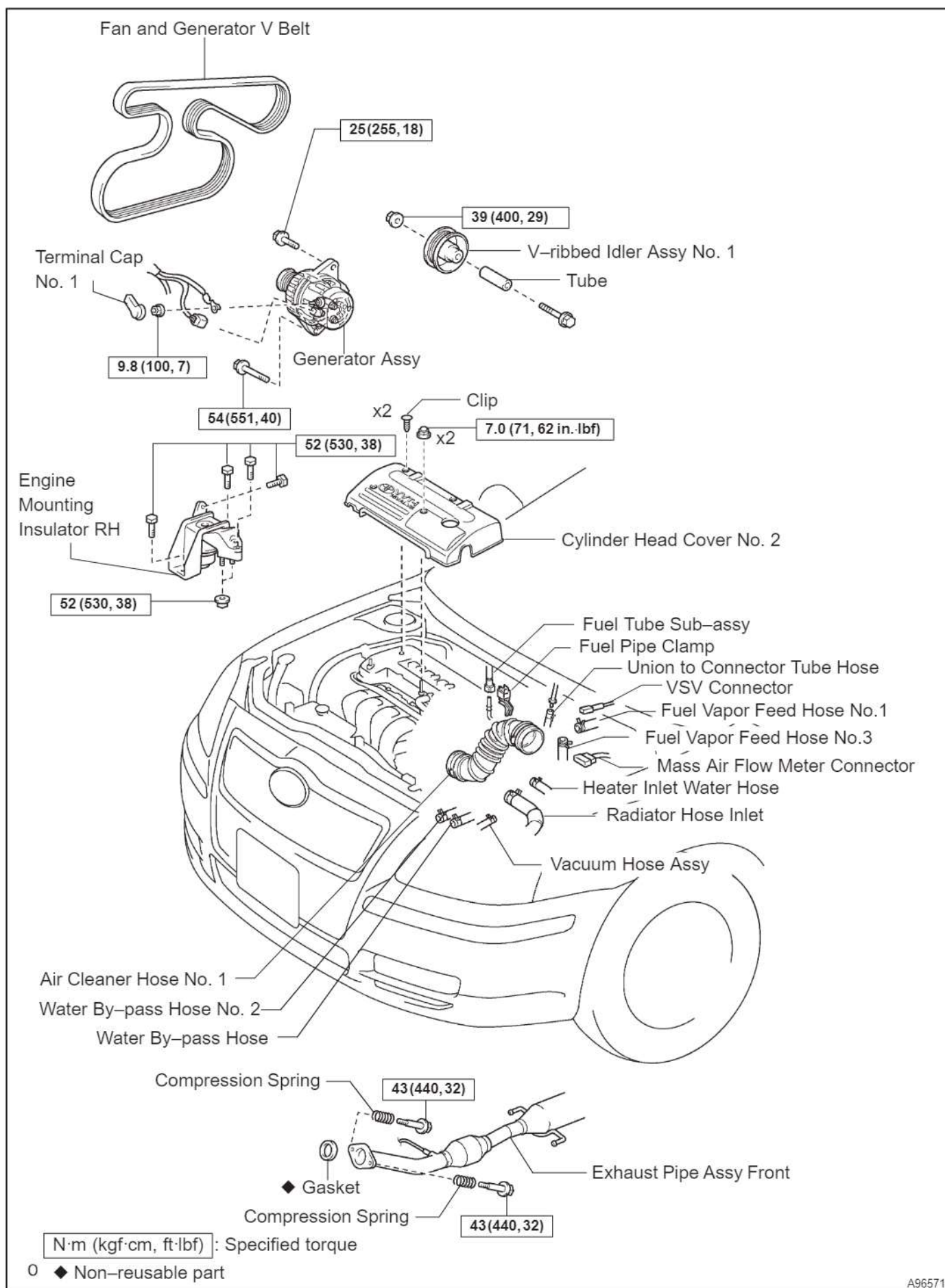
COMPONENTS

141CL-02

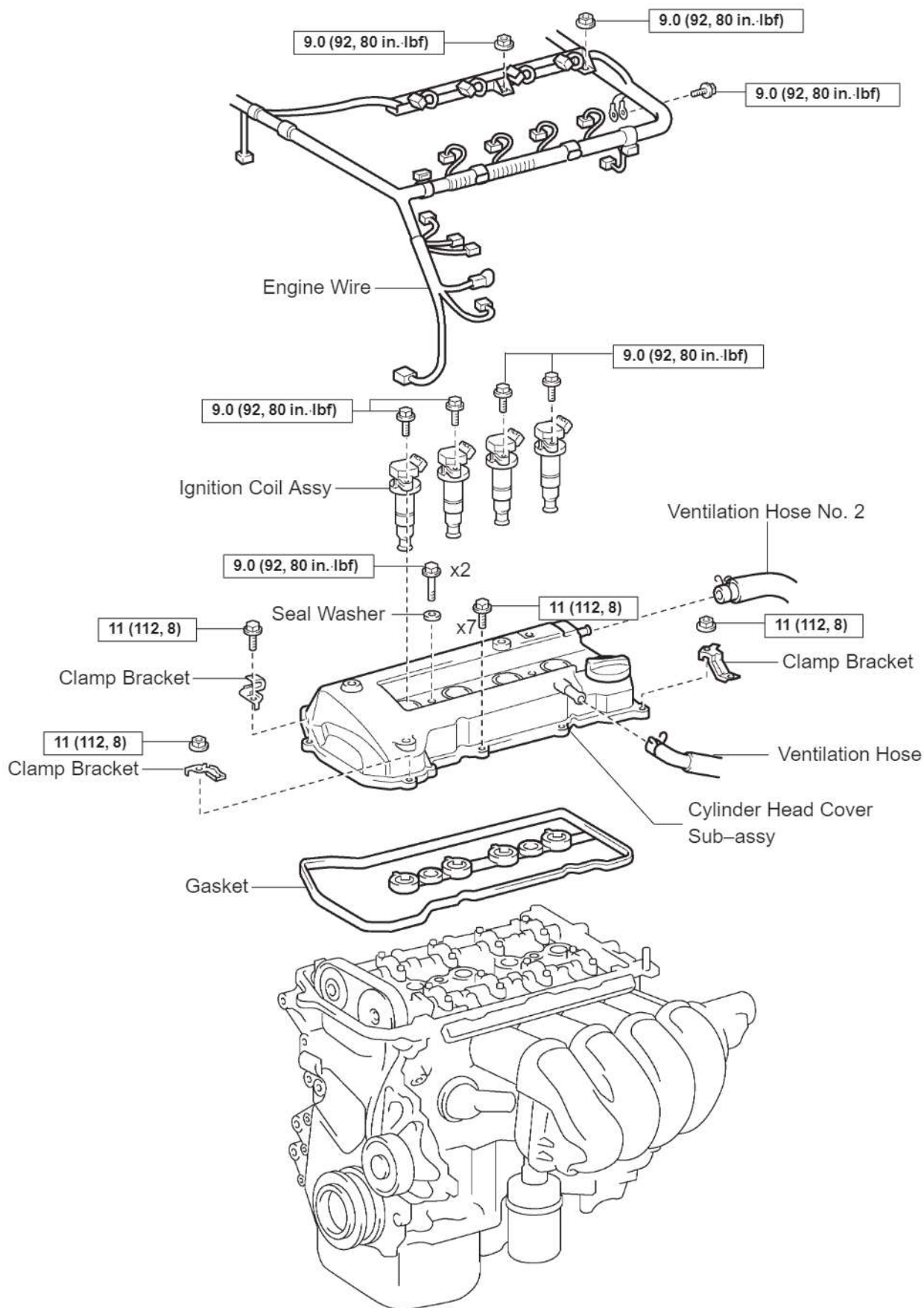


γ N·m (kgf·cm, ft·lbf) : Specified torque

A93675

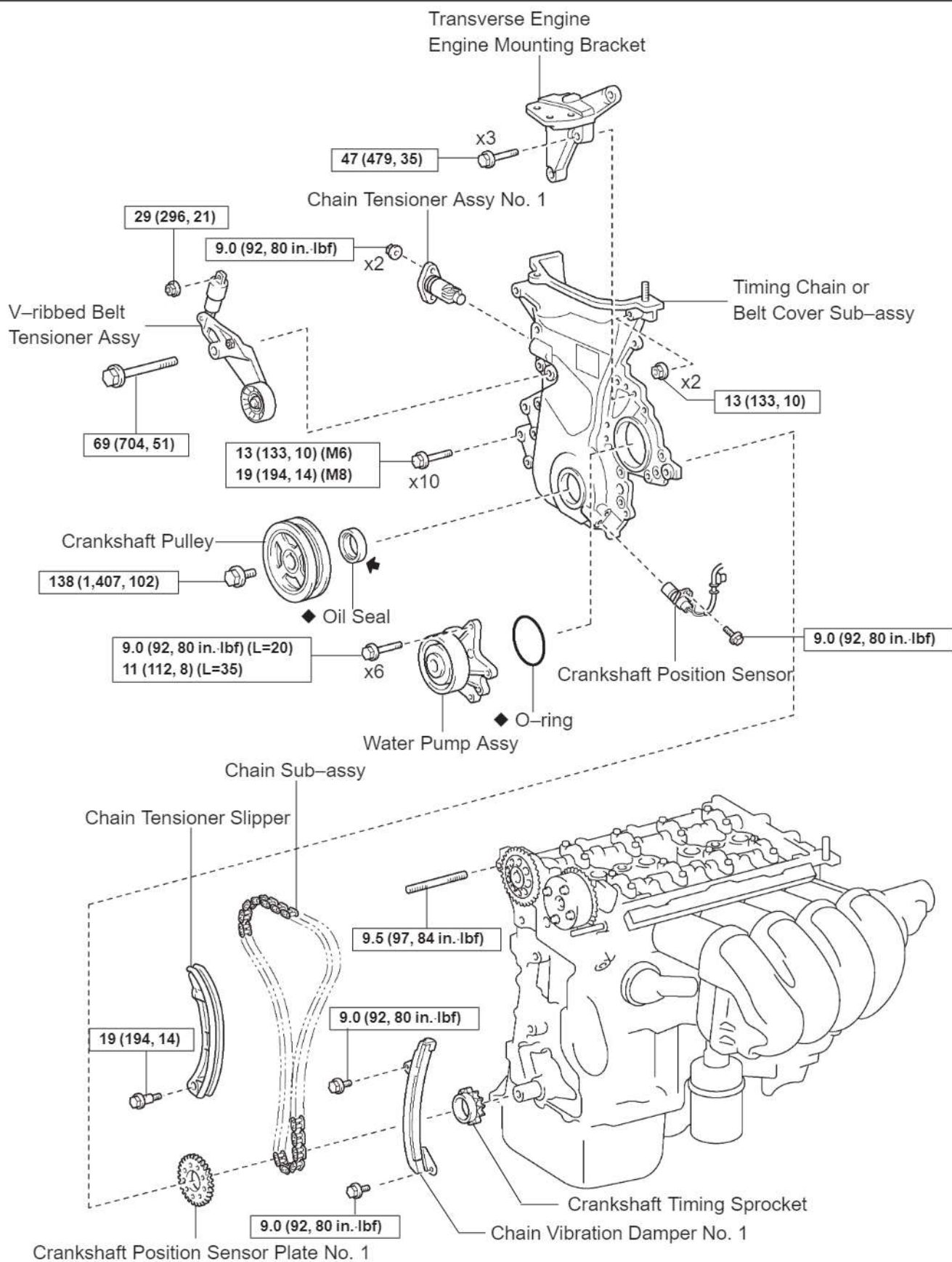


A96571



0 N·m (kgf·cm, ft·lbf) : Specified torque

A76709



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

◀ Grease application

0

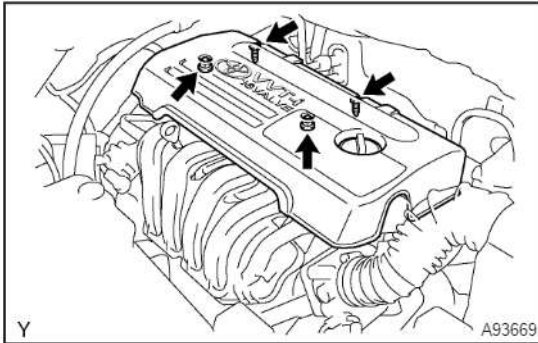
A60628



◆ Non-reusable part

REPLACEMENT

1. DISCHARGE FUEL SYSTEM PRESSURE (See Pub. No. RM1018E on page 11-1)
2. REMOVE RADIATOR SUPPORT OPENING COVER (See page 14-9)
3. REMOVE ENGINE ROOM COVER SIDE (See page 14-9)
4. REMOVE FRONT WHEEL RH
5. REMOVE ENGINE UNDER COVER SUB-ASSY NO.1 (See page 14-9)
6. REMOVE ENGINE UNDER COVER RH (See page 14-9)
7. DRAIN ENGINE COOLANT (See page 16-5)



8. REMOVE CYLINDER HEAD COVER NO.2

- (a) Remove the 2 nuts and 2 clips, then detach cylinder head cover No.2.

9. REMOVE AIR CLEANER HOSE NO.1

- (a) Disconnect the VSV connector.
- (b) Disconnect fuel vapor feed No. 1 hose from the VSV.
- (c) Disconnect the fuel vapor feed hose from the VSV.
- (d) Disconnect the ventilation hose from air cleaner hose No. 1.
- (e) Loosen the 2 air cleaner hose clamp bolts, then remove the air cleaner hose.

10. DISCONNECT WATER BY-PASS HOSE

- (a) Disconnect the water by-pass hose from the throttle body.

11. DISCONNECT WATER BY-PASS HOSE NO.2

- (a) Disconnect water by-pass hose No. 2 from the throttle body.

12. REMOVE EFI FUEL PIPE CLAMP (See Pub. No. RM1018E on page 11-11)

13. DISCONNECT FUEL TUBE SUB-ASSY (See Pub. No. RM1018E on page 11-11)

14. DISCONNECT UNION TO CONNECTOR TUBE HOSE

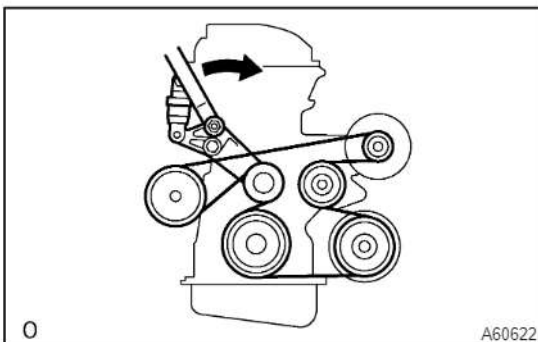
- (a) Disconnect the union to connector tube hose from the hose to hose tube.

15. DISCONNECT RADIATOR HOSE INLET

- (a) Disconnect the radiator hose inlet from the cylinder head.

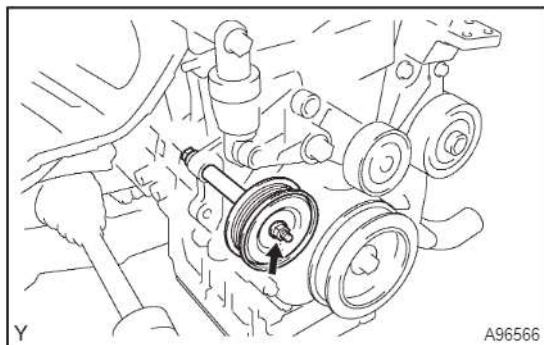
16. DISCONNECT HEATER INLET WATER HOSE

- (a) Disconnect the heater inlet water hose from the cylinder head.



17. REMOVE FAN AND GENERATOR V BELT

- (a) Turn the V-ribbed belt tensioner clockwise slowly and loosen it. Remove the fan and generator V belt, then put back the V-ribbed belt tensioner carefully.

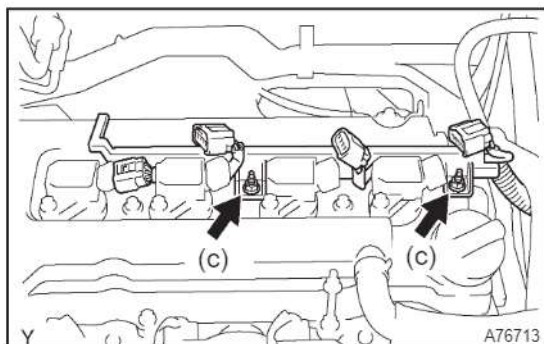


18. REMOVE V-RIBBED IDLER ASSY NO.1

- (a) Remove the nut, bolt, tube and idler.

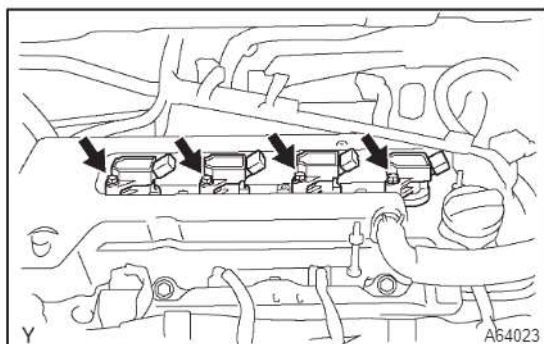
19. REMOVE GENERATOR ASSY

(See Pub. No. RM1018E on page 19-7)

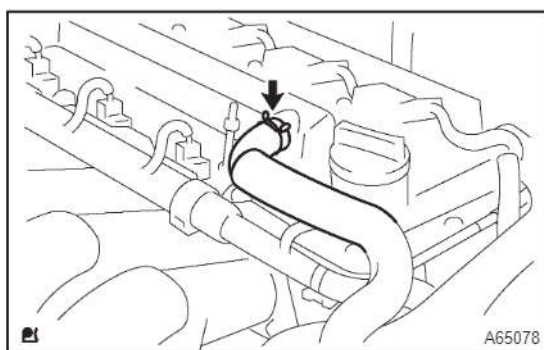


20. DISCONNECT IGNITION COIL ASSY

- (a) Remove the 5 clamps from the 5 clamp brackets.
 (b) Disconnect the 4 ignition coil connectors.
 (c) Remove the 2 nuts which are used to secure the engine wire.

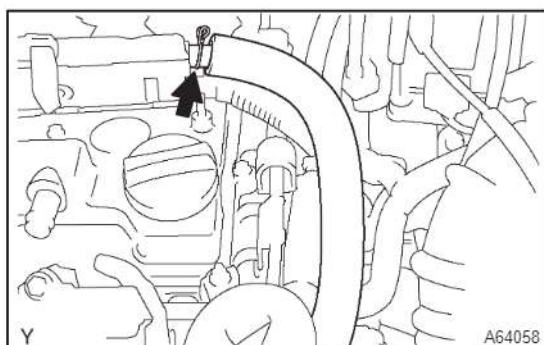


- (d) Remove the 4 bolts and 4 ignition coils.



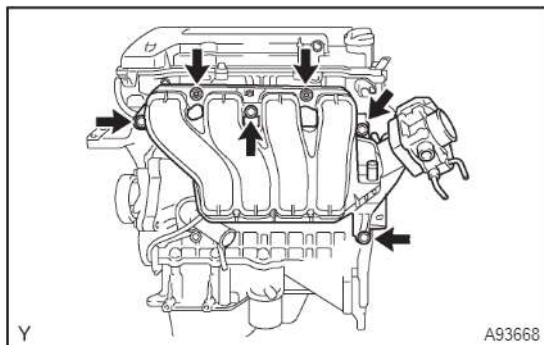
21. DISCONNECT VENTILATION HOSE

- (a) Disconnect the ventilation hose from the cylinder head cover.

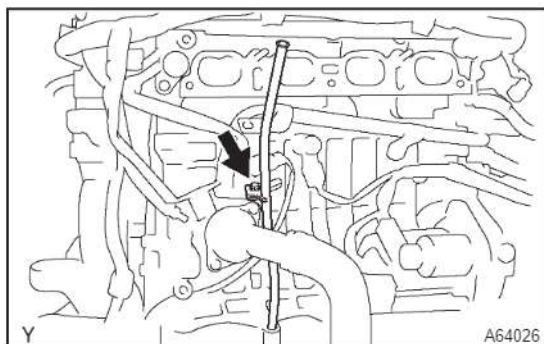


22. DISCONNECT VENTILATION HOSE NO.2

- (a) Disconnect the ventilation hose from the cylinder head cover.

**23. REMOVE INTAKE MANIFOLD**

- (a) Disconnect the throttle motor connector.
- (b) Disconnect the vacuum hose from water by-pass pipe No. 1.
- (c) Remove the 4 bolts, 2 nuts and 2 wire brackets.
- (d) Remove the intake manifold and throttle body assembly.
- (e) Remove the gasket from the intake manifold and the throttle body assembly.

**24. REMOVE OIL LEVEL GAGE SUB-ASSY**

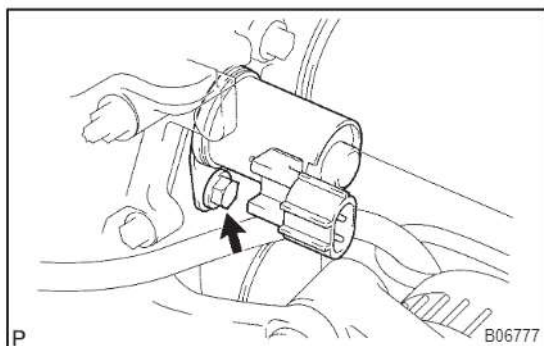
- (a) Remove the oil level gage from the oil level gage guide.

25. REMOVE OIL LEVEL GAGE GUIDE

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

26. SEPARATE WATER BY-PASS PIPE NO.1

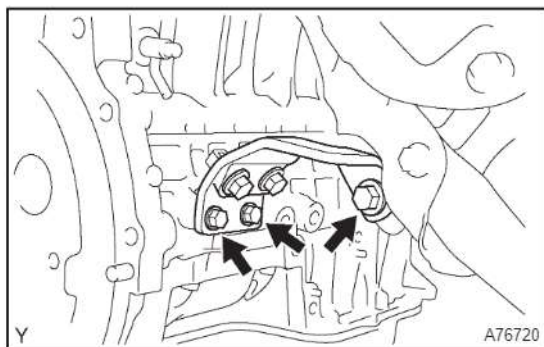
- (a) Remove the 2 bolts which are used to secure the water by-pass pipe.

**27. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSY**

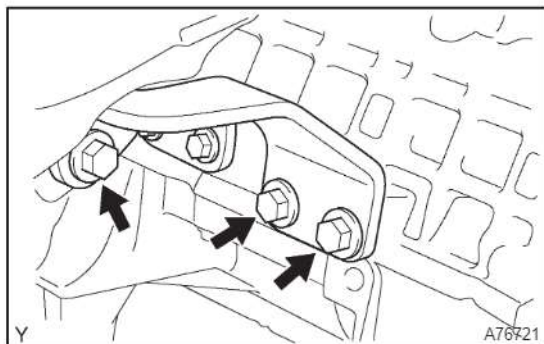
- (a) Remove the bolt and camshaft timing oil control valve.

28. SEPARATE EXHAUST PIPE ASSY FRONT

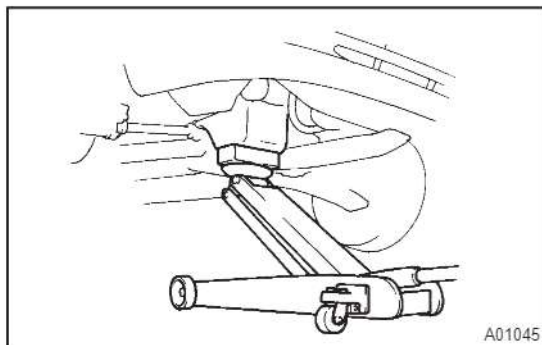
- (a) Remove the 2 bolts and 2 compression springs which are used to secure the front side of exhaust pipe.
- (b) Remove the gasket.

**29. REMOVE MANIFOLD STAY**

- (a) Remove the 3 bolts and manifold stay.

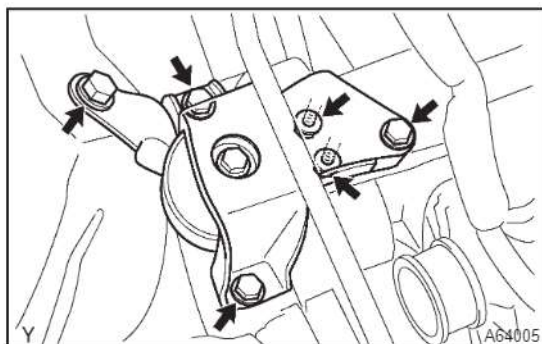
**30. REMOVE MANIFOLD STAY NO.2**

- (a) Remove the 3 bolts and manifold stay No. 2.



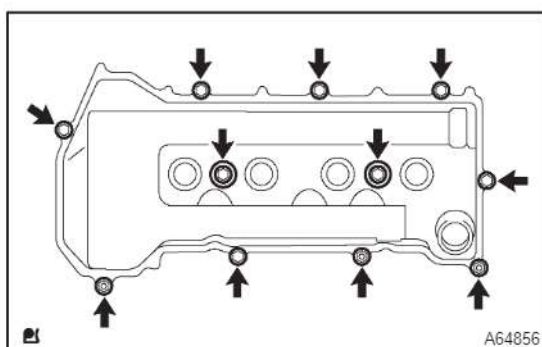
31. REMOVE ENGINE MOUNTING INSULATOR SUB-ASSY RH

- (a) Place a wooden block on a jack underneath the engine. Remove the 4 bolts and 2 nuts, then detach the engine mounting insulator RH.



32. REMOVE CYLINDER HEAD COVER SUB-ASSY

- (a) Remove the 9 bolts, 2 seal washers, 2 nuts and 3 clamp brackets.
- (b) Remove the cylinder head cover.

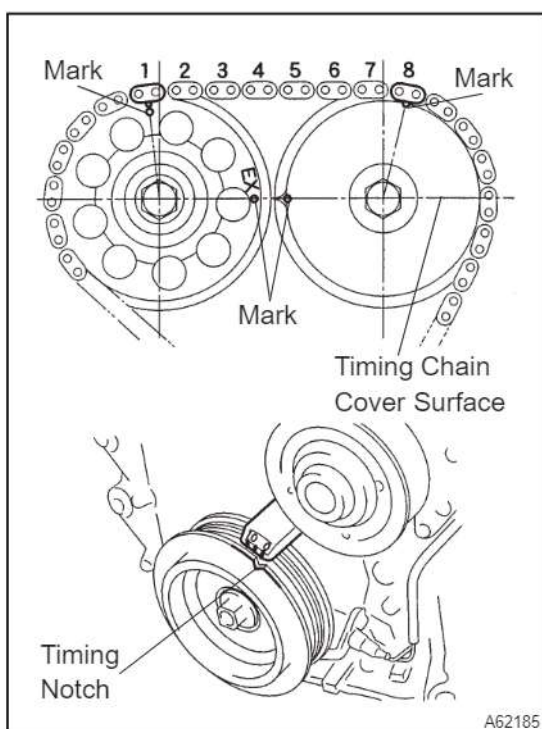


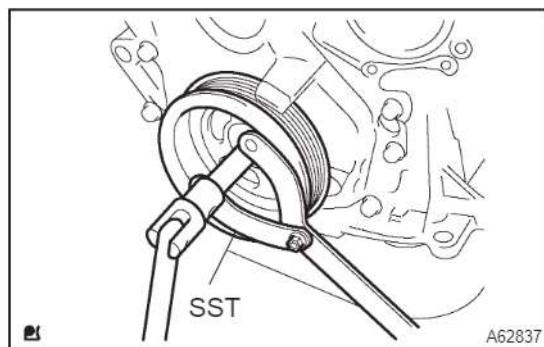
33. SET NO. 1 CYLINDER TO TDC/COMPRESSION

- (a) Turn the crankshaft pulley until the timing notch is aligned with the timing mark "0" of the timing chain cover.
- (b) Check that the point marks of the camshaft timing sprocket and VVT timing sprocket are in a straight line on the timing chain cover surface as shown in the illustration.

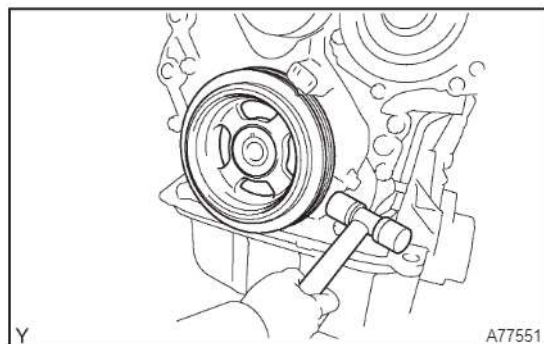
HINT:

If not, turn the crankshaft 1 revolution (360°) to align the marks as above.



**34. REMOVE CRANKSHAFT PULLEY**

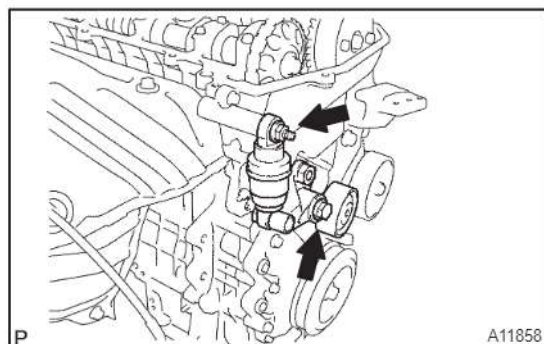
- (a) Using SST, remove the pulley bolt.
 SST 09960-10010 (09962-01000, 09963-01000)



- (b) Remove the crankshaft pulley from the crankshaft.

HINT:

If the crankshaft pulley key is stuck, tap it with a plastic-surfaced hammer so that it can be removed.

**35. REMOVE V-RIBBED BELT TENSIONER ASSY**

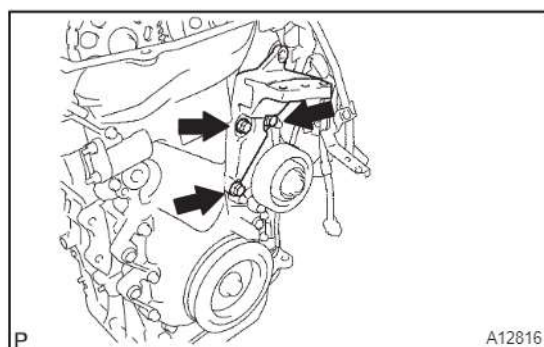
- (a) Remove the bolt and nut, then detach the V-ribbed belt tensioner.

HINT:

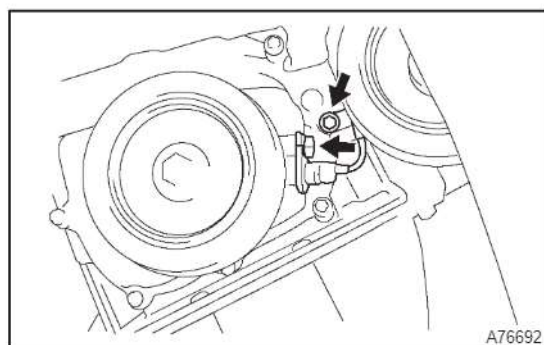
Jack up and down to remove the bolt.

36. REMOVE WATER PUMP ASSY

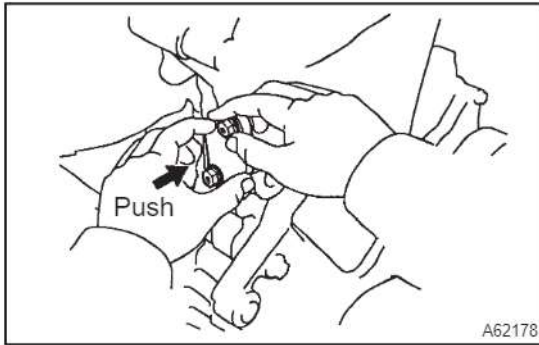
(See Pub. No. RM1018E on page 16-9)

**37. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET**

- (a) Remove the 3 bolts and transverse engine engine mounting bracket.

**38. REMOVE CRANKSHAFT POSITION SENSOR**

- (a) Remove the 2 bolts which are used to secure the crankshaft position sensor.

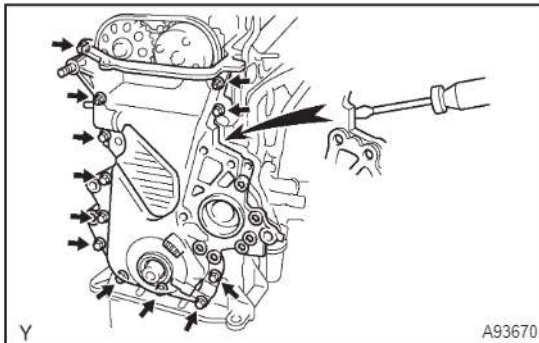


39. REMOVE CHAIN TENSIONER ASSY NO.1

- (a) Remove the 2 nuts and chain tensioner.

NOTICE:

Do not revolve the crankshaft without the chain tensioner.

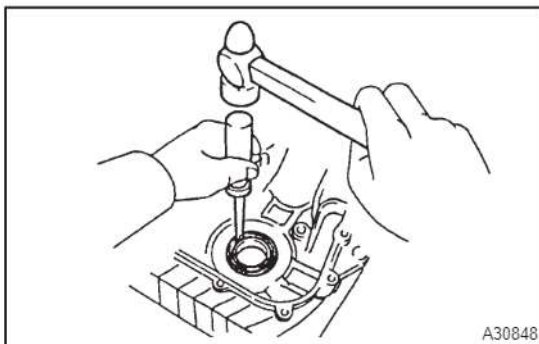


40. REMOVE TIMING CHAIN OR BELT COVER SUB-ASSY

- (a) Remove the 10 bolts and 2 nuts.
 (b) Using a torx wrench socket (E8), remove the stud bolt.
 (c) Remove the timing chain cover by using a screwdriver to pry between the cylinder block and cylinder head.

NOTICE:

Be careful not to damage the timing chain cover, the cylinder head and the cylinder block.



41. REMOVE TIMING CHAIN OR BELT COVER OIL SEAL

- (a) Using a screwdriver, remove the oil seal.

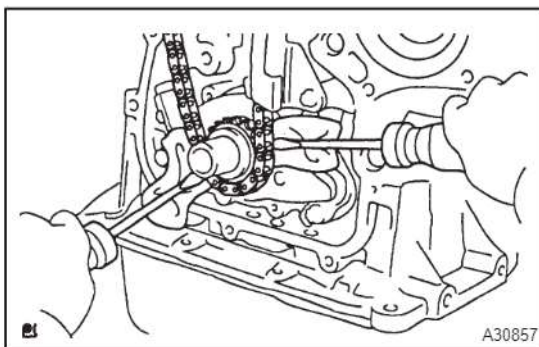
42. REMOVE CRANKSHAFT POSITION SENSOR PLATE NO.1

43. REMOVE CHAIN TENSIONER SLIPPER

- (a) Remove the bolt and chain tensioner slipper.

44. REMOVE CHAIN VIBRATION DAMPER NO.1

- (a) Remove the 2 bolts and chain vibration damper.

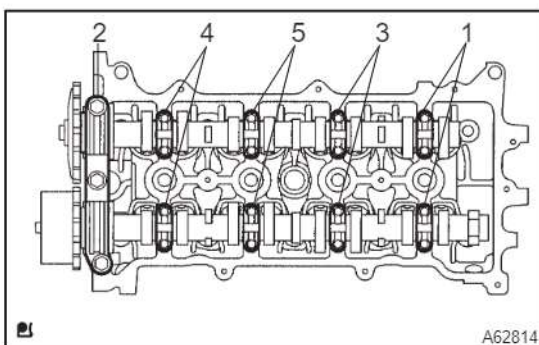


45. REMOVE CHAIN SUB-ASSY

- (a) Remove the timing chain by prying the crankshaft timing gear using screwdrivers as shown in the illustration.

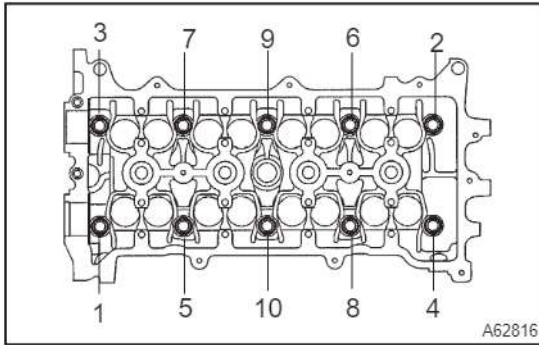
NOTICE:

- Put a shop rag to protect the engine.
- In case of revolving the camshafts with the chain off the sprockets, turn the crankshaft 1/4 revolution counterclockwise to prevent the valves from touching the pistons.

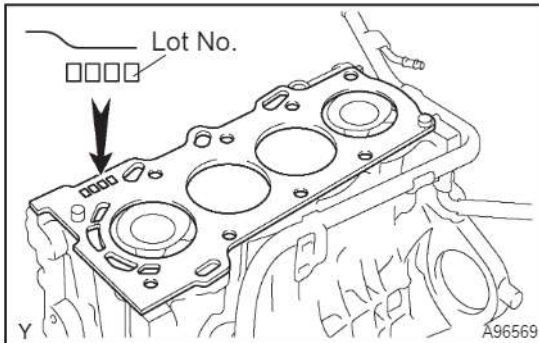


46. REMOVE CAMSHAFT

- (a) Using several steps, loosen and remove the 19 bearing cap bolts uniformly in the sequence shown in the illustration. Remove the 9 bearing caps and both intake and exhaust camshafts.

**47. REMOVE CYLINDER HEAD SUB-ASSY**

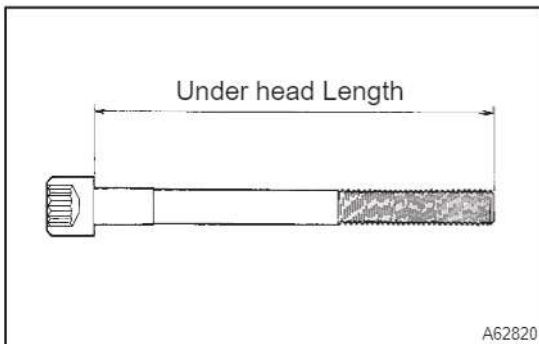
- (a) Using several steps, loosen and remove the 10 cylinder head bolts with a 10 mm hexagon wrench uniformly in the sequence shown in the illustration. Remove the 10 cylinder head bolts and 10 plate washers.
- (b) Remove the cylinder head.

48. REMOVE CYLINDER HEAD GASKET**49. INSTALL CYLINDER HEAD GASKET**

- (a) Place a new cylinder head gasket on the cylinder block with the Lot No. stamp facing upward.

NOTICE:

- Pay attention to the mounting orientation.
- Place the cylinder head on the gasket gently in order not to damage the gasket.

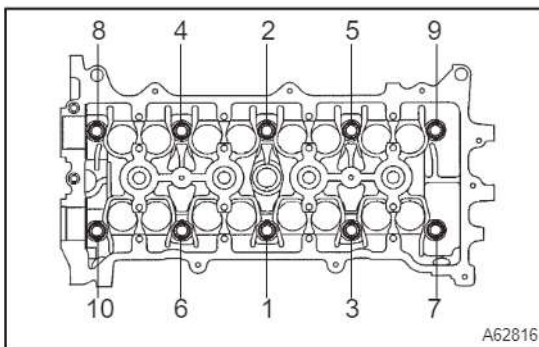
**50. INSPECT CYLINDER HEAD SET BOLT**

- (a) Using a vernier calipers, measure the length of cylinder head bolt from the seat to the end.

Standard length: 146.8 to 148.2 mm (5.780 to 5.835 in.)

Maximum length: 148.5 mm (5.846 in.)

If the length exceeds the maximum, replace the bolt.

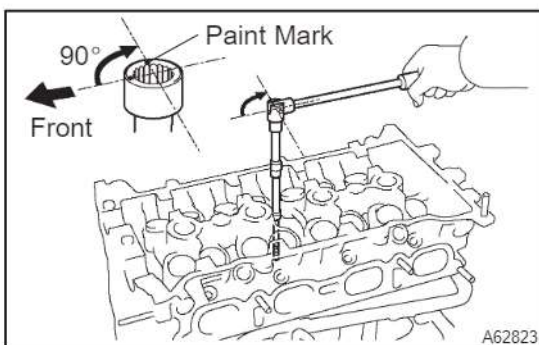
**51. INSTALL CYLINDER HEAD SUB-ASSY****HINT:**

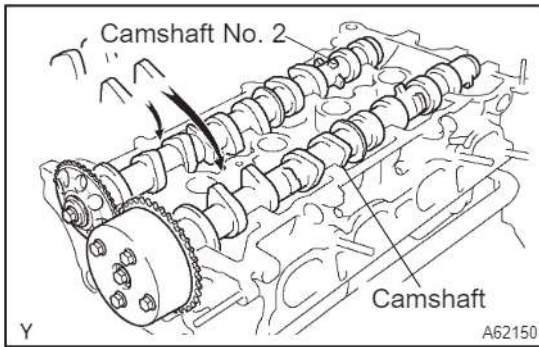
The cylinder head bolts are tightened in 2 successive steps.

- (a) Apply a light coat of engine oil to the threads of the cylinder head bolts.
- (b) Using several steps, install and tighten the 10 cylinder head bolts and plate washers with a 10 mm hexagon wrench uniformly in the sequence shown in the illustration.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

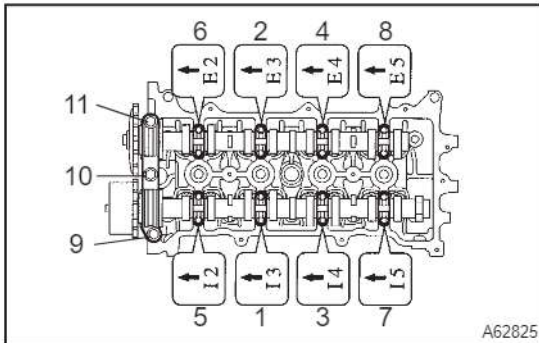
- (c) Mark the front of the cylinder head bolt with paint.
- (d) Retighten the cylinder head bolts by an additional 90° in the same sequence as step (b).
- (e) Check that the paint mark of each bolt is at a 90° angle to the front.





52. INSTALL CAMSHAFT

- (a) Apply a light coat of engine oil to the camshaft journals.
- (b) Place the 2 camshafts on the cylinder head as shown in the illustration.

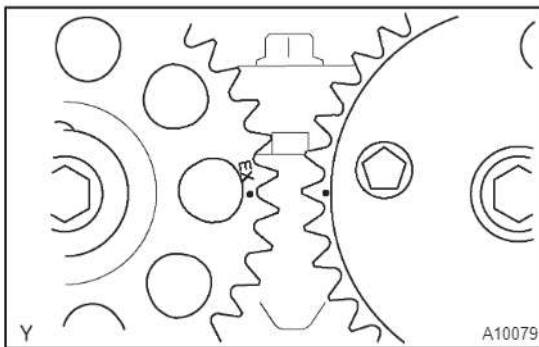


- (c) Examine the front marks and numbers, then tighten the bolts in the sequence shown in the illustration.

Torque:

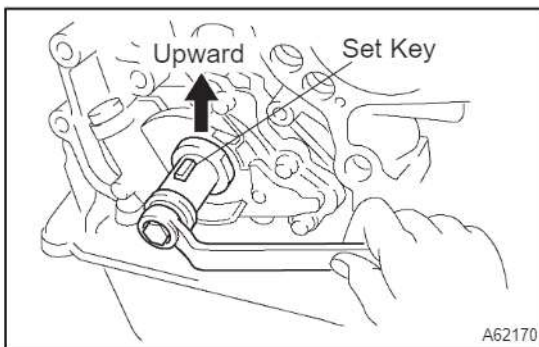
23 N·m (235 kgf·cm, 17 ft·lbf) for bearing cap No. 1

13 N·m (133 kgf·cm, 10 ft·lbf) for bearing cap No. 3

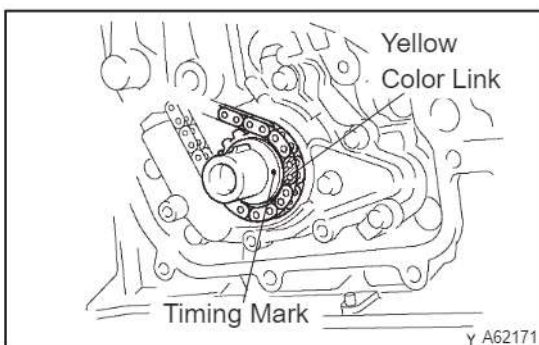


53. INSTALL CHAIN SUB-ASSY

- (a) Set No. 1 cylinder to TDC/compression.
 - (1) Using a wrench, turn the camshafts until the timing marks of the 2 camshaft timing sprockets are aligned.



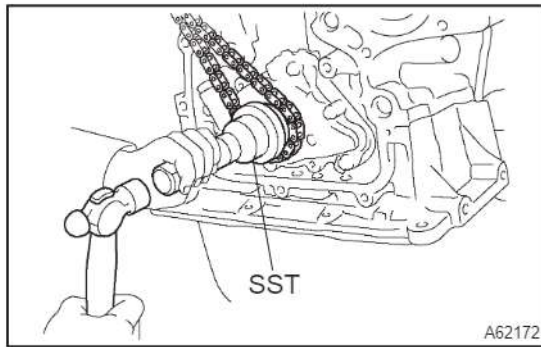
- (2) Using a crankshaft pulley bolt, turn the crankshaft and set the set key on the crankshaft upward.



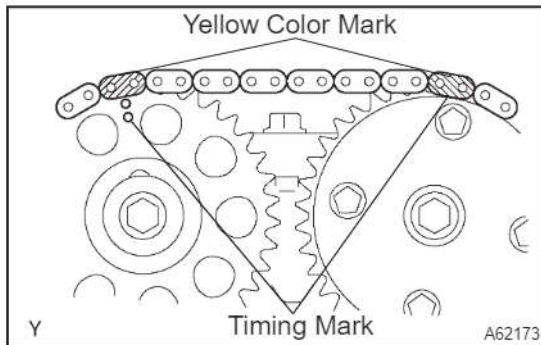
- (b) Install the timing chain onto the crankshaft timing sprocket with the yellow color link and the timing mark on the crankshaft timing sprocket aligned.

HINT:

Three yellow color links are on the chain.



- (c) Using SST, install the crankshaft timing sprocket.
SST 09223-22010



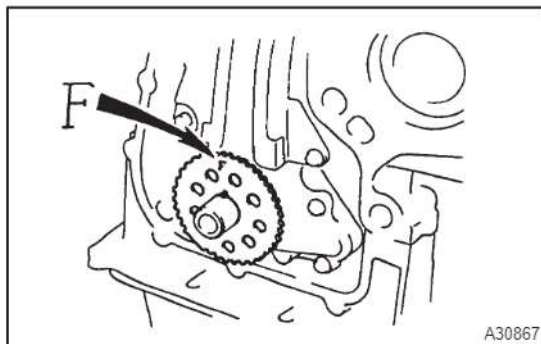
- (d) Install the timing chain onto the camshaft timing sprockets with the yellow color links and timing marks on the camshaft timing sprockets aligned.

54. INSTALL CHAIN VIBRATION DAMPER NO.1

- (a) Install the chain vibration damper with the 2 bolts.
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

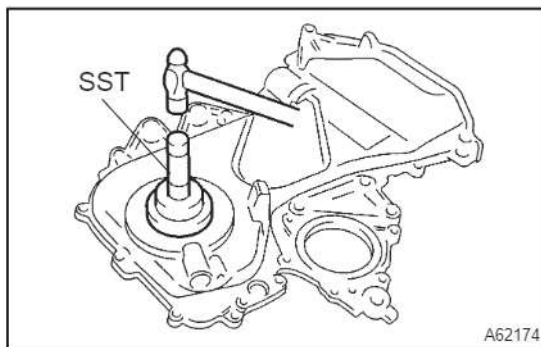
55. INSTALL CHAIN TENSIONER SLIPPER

- (a) Install the chain tensioner slipper with the bolt.
Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)



56. INSTALL CRANKSHAFT POSITION SENSOR PLATE NO.1

- (a) Install the plate with the "F" mark facing forward.

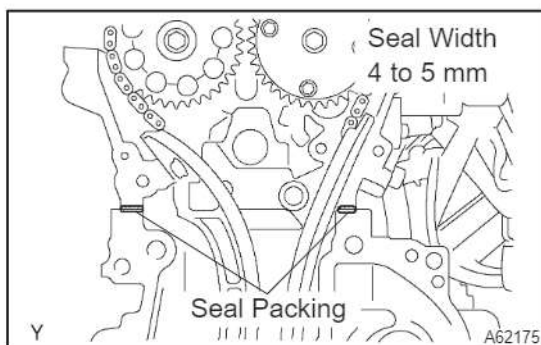


57. INSTALL TIMING CHAIN OR BELT COVER OIL SEAL

- (a) Apply multi-purpose grease to a new oil seal lip.
(b) Using SST, tap in the oil seal until its surface is flush with the timing chain cover edge.
SST 09223-22010

NOTICE:

Keep the lip free of foreign objects.



58. INSTALL TIMING CHAIN OR BELT COVER SUB-ASSY

- (a) Remove any old packing material (FIPG) from the contact surface.

- (b) Apply a continuous bead of seal packing (Diameter 3.5 mm to 4.5 mm (0.1379 to 0.177 in.)) as shown in the illustration.

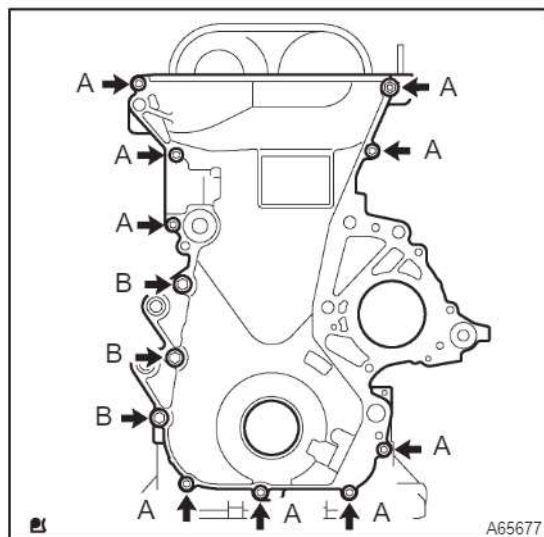
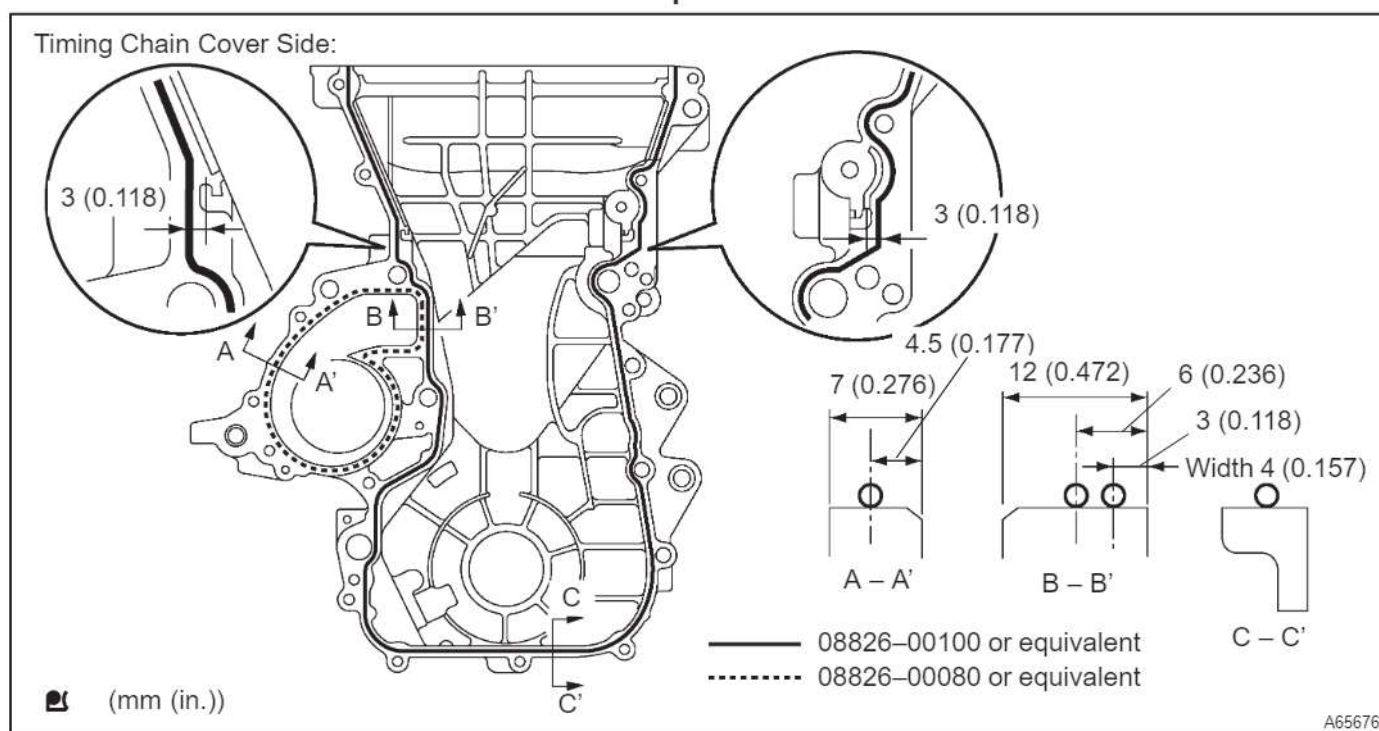
Seal packing:

Water pump part: part No. 08826-00100 or equivalent

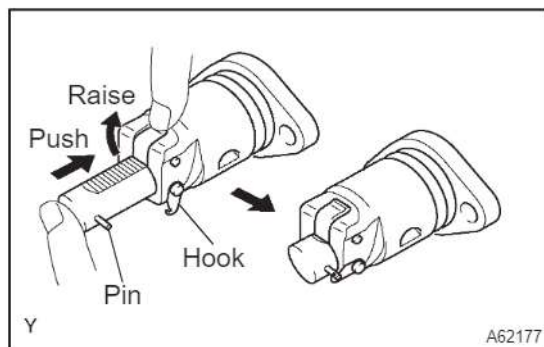
Other part: part No. 08826-00080 or equivalent.

NOTICE:

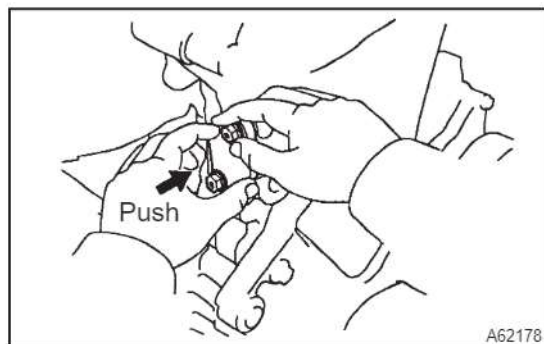
- Remove any oil from the contact surface.
- Install the oil pan within 3 minutes after applying seal packing.
- Do not expose the seal to engine oil for at least 2 hours after installation.
- Do not apply seal packing too much more than the specified amount.



- (c) Install the timing chain cover with the 10 bolts and 2 nuts.
Torque:
13 N·m (133 kgf·cm, 10 ft·lbf) for A
19 N·m (194 kgf·cm, 14 ft·lbf) for B
- (d) Using a torx wrench socket (E8), install the stud bolt.
Torque: 9.5 N·m (97 kgf·cm, 84 in·lbf)

**59. INSTALL CHAIN TENSIONER ASSY NO.1**

- (a) Check that the O-ring is clean, then set the hook as shown in the illustration.

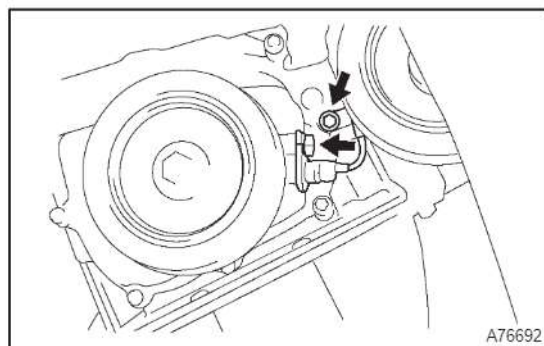


- (b) Apply engine oil to the chain tensioner and install it with the 2 nuts.

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

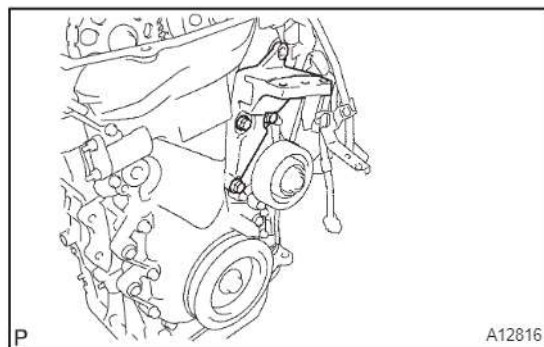
NOTICE:

If the hook released the plunger during installation, re-hook the plunger.

**60. INSTALL CRANKSHAFT POSITION SENSOR**

- (a) Apply a light coat of the engine oil to the O-ring on the crankshaft position sensor.
- (b) Install the crankshaft position sensor with the 2 bolts.

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

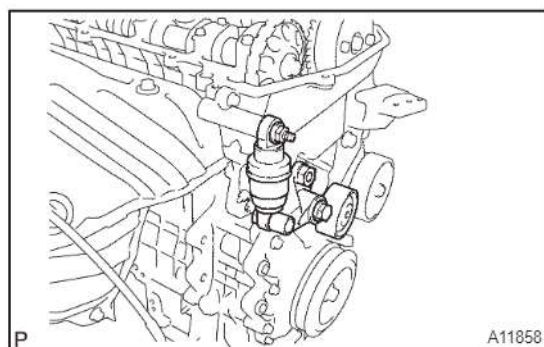
**61. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET**

- (a) Install the transverse engine engine mounting bracket with the 3 bolts.

Torque: 47 N·m (479 kgf·cm, 35 ft·lbf)

62. INSTALL WATER PUMP ASSY

(See Pub. No. RM1018E on page 16-9)

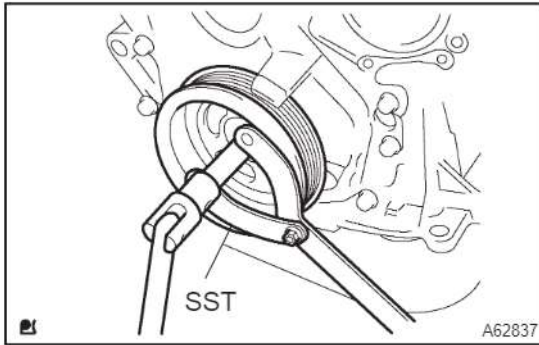
**63. INSTALL V-RIBBED BELT TENSIONER ASSY**

- (a) Install the V-ribbed belt tensioner with the nut and bolt.

Torque:

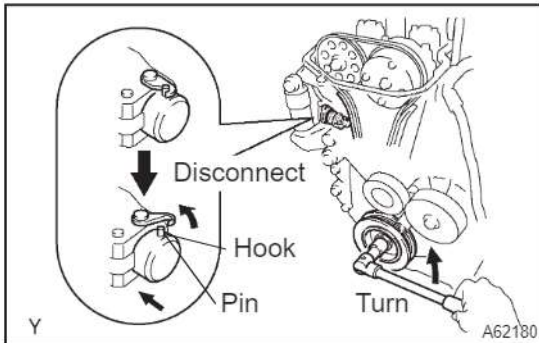
29 N·m (296 kgf·cm, 21 ft·lbf) for nut

69 N·m (704 kgf·cm, 51 ft·lbf) for bolt

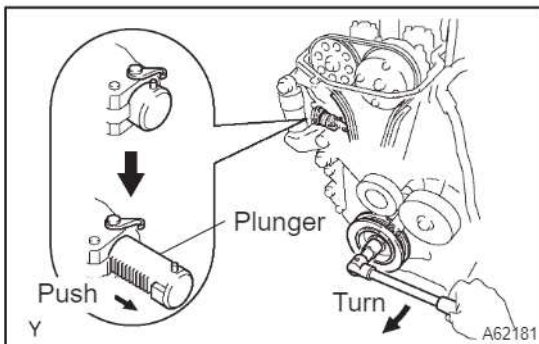


64. INSTALL CRANKSHAFT PULLEY

- Align the keyway of the pulley with the key located on the crankshaft, then slide the pulley into place.
- Using SST, install the crankshaft pulley bolt.
SST 09960-10010 (09962-01000, 09963-01000)
Torque: 138 N·m (1,407 kgf·cm, 102 ft·lbf)



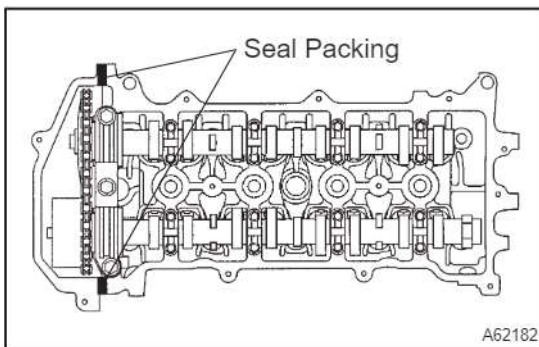
- Turn the crankshaft counterclockwise, then take the hook off the knock pin to release the plunger.



- Turn the crankshaft clockwise, then check that the plunger is extended.

HINT:

If the plunger is not extended, press the slipper into the chain tensioner using a screwdriver so that the hook is taken off from the knock pin and the plunger can be extended.



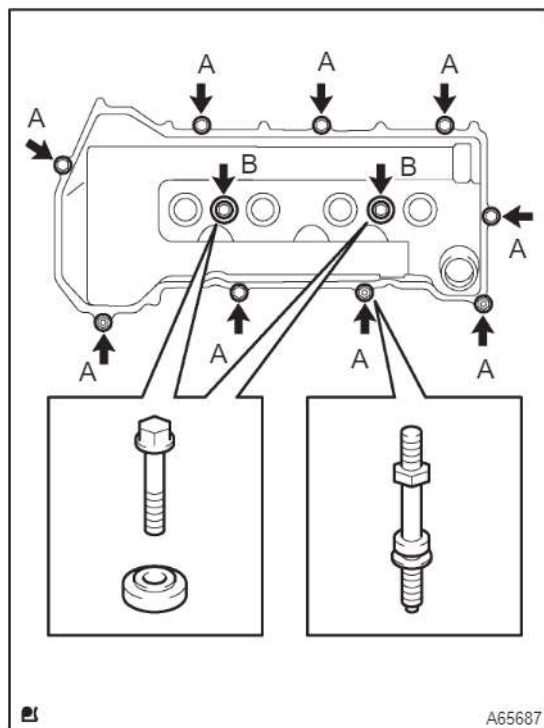
65. INSTALL CYLINDER HEAD COVER SUB-ASSY

- Remove any old packing (FIPG) material.
- Apply seal packing to the 2 locations as shown in the illustration.

Seal packing: Part No. 08826-00080 or equivalent

NOTICE:

- Remove any oil from the contact surface.
- Install the cylinder head cover within 3 minutes of applying seal packing.
- Do not expose the seal to engine oil for at least 2 hours after installation.

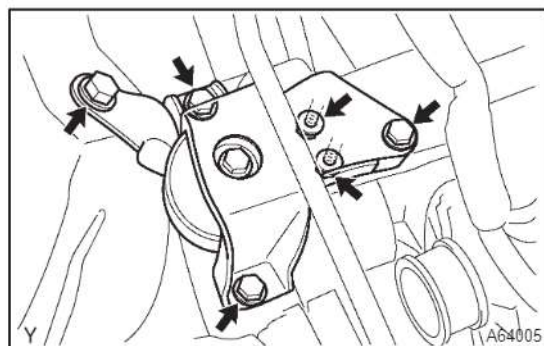


- (c) Install the cylinder head cover and 3 cable brackets with the 9 bolts, 2 seal washers and 2 nuts. Tighten the bolts and nuts uniformly in several steps.

Torque:

11 N·m (112 kgf·cm, 8 ft·lbf) for A

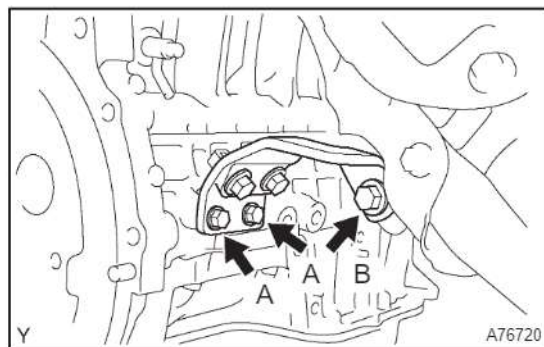
9.0 N·m (92 kgf·cm, 80 in·lbf) for B



66. INSTALL ENGINE MOUNTING INSULATOR SUB-ASSY RH

- (a) Install the engine mounting insulator with the 4 bolts and 2 nuts.

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



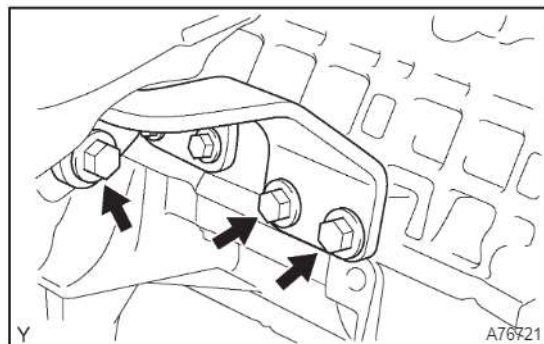
67. INSTALL MANIFOLD STAY

- (a) Install the manifold stay with the 3 bolts.

Torque:

37 N·m (377 kgf·cm, 27 ft·lbf) for bolt A

49 N·m (500 kgf·cm, 36 ft·lbf) for bolt B

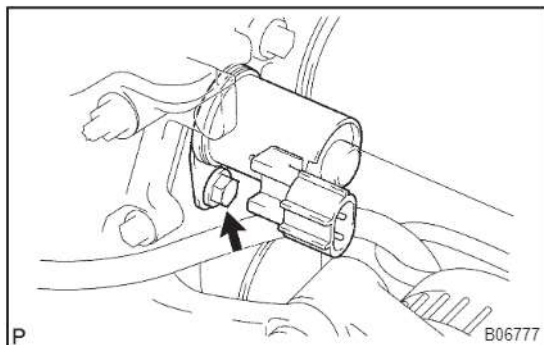


68. INSTALL MANIFOLD STAY NO.2

- (a) Install the manifold stay with the 3 bolts.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

69. INSTALL EXHAUST PIPE ASSY FRONT
(See Pub. No. RM1018E on page 15-2)



70. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSY

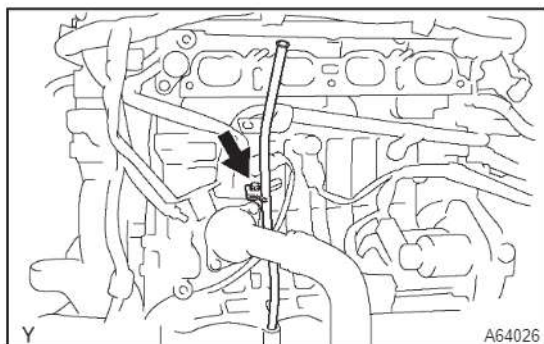
- (a) Apply a light coat of engine oil on a new O-ring, then install it onto the camshaft timing oil control valve.
- (b) Install the camshaft timing oil control valve with the bolt.

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

71. INSTALL WATER BY-PASS PIPE NO.1

- (a) Install a new gasket and water by-pass pipe with the 2 nuts and 2 bolts.

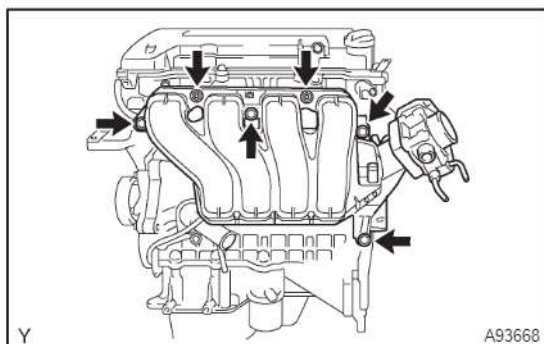
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)



72. INSTALL OIL LEVEL GAGE GUIDE

- (a) Apply a light coat of engine oil on a new O-ring, then install it onto the oil level gage guide.
- (b) Install the oil level gage guide with the bolt.

Torque: 13 N·m (133 kgf·cm, 10 ft.·lbf)

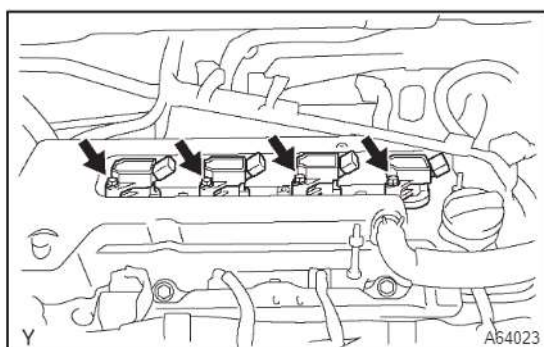


73. INSTALL INTAKE MANIFOLD

- (a) Install a new gasket onto the intake manifold.
- (b) Install the intake manifold and the throttle body assembly with the 2 brackets, 4 bolts and 2 nuts.

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

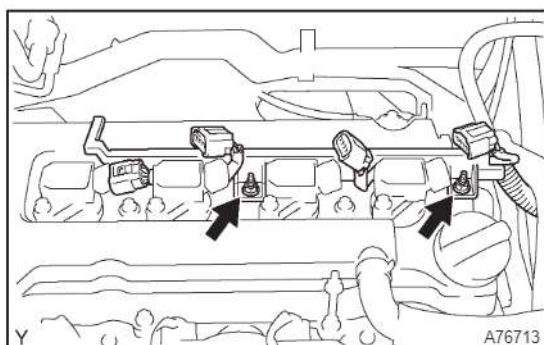
- (c) Connect the vacuum hose to water by-pass pipe No. 1.
- (d) Connect the throttle motor connector.



74. INSTALL IGNITION COIL ASSY

- (a) Install the 4 ignition coils with the 4 bolts.

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

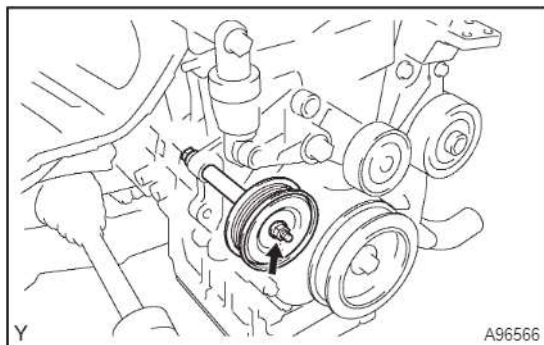


- (b) Install the engine wire with the 2 nuts.

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

75. INSTALL GENERATOR ASSY

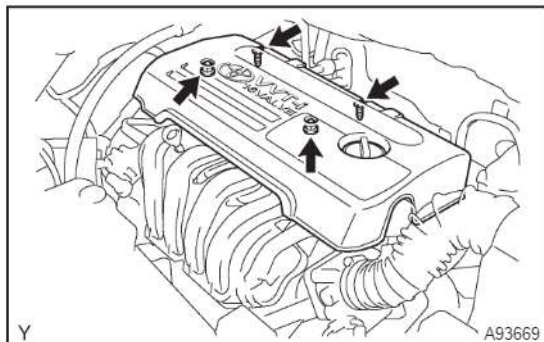
(See Pub. No. RM1018E on page 19-7)

**76. INSTALL V-RIBBED IDLER ASSY NO.1**

- (a) Install the tube and idler with the nut and bolt.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

77. INSTALL FAN AND GENERATOR V BELT
(See Pub. No. RM1018E on page 14-5)**78. INSTALL AIR CLEANER HOSE NO.1**

Torque: 1.5 N·m (15 kgf·cm, 13 in·lbf)

**79. INSTALL CYLINDER HEAD COVER NO.2**

- (a) Install the cylinder head cover with the 2 nuts and 2 clips.
Torque: 7.0 N·m (71 kgf·cm, 62 in·lbf)

80. INSTALL FRONT WHEEL RH

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

81. ADD ENGINE COOLANT (See page 16-5)**82. INSPECT COMPRESSION (See Pub. No. RM1018E on page 14-1)**

SST 09992-00500

83. INSPECT CO/HC (See Pub. No. RM1018E on page 14-1)**84. INSPECT IGNITION TIMING (See Pub. No. RM1018E on page 14-1)**

SST 09843-18040

85. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)**86. CHECK FOR ENGINE OIL LEAKS****87. CHECK FOR EXHAUST GAS LEAKS**