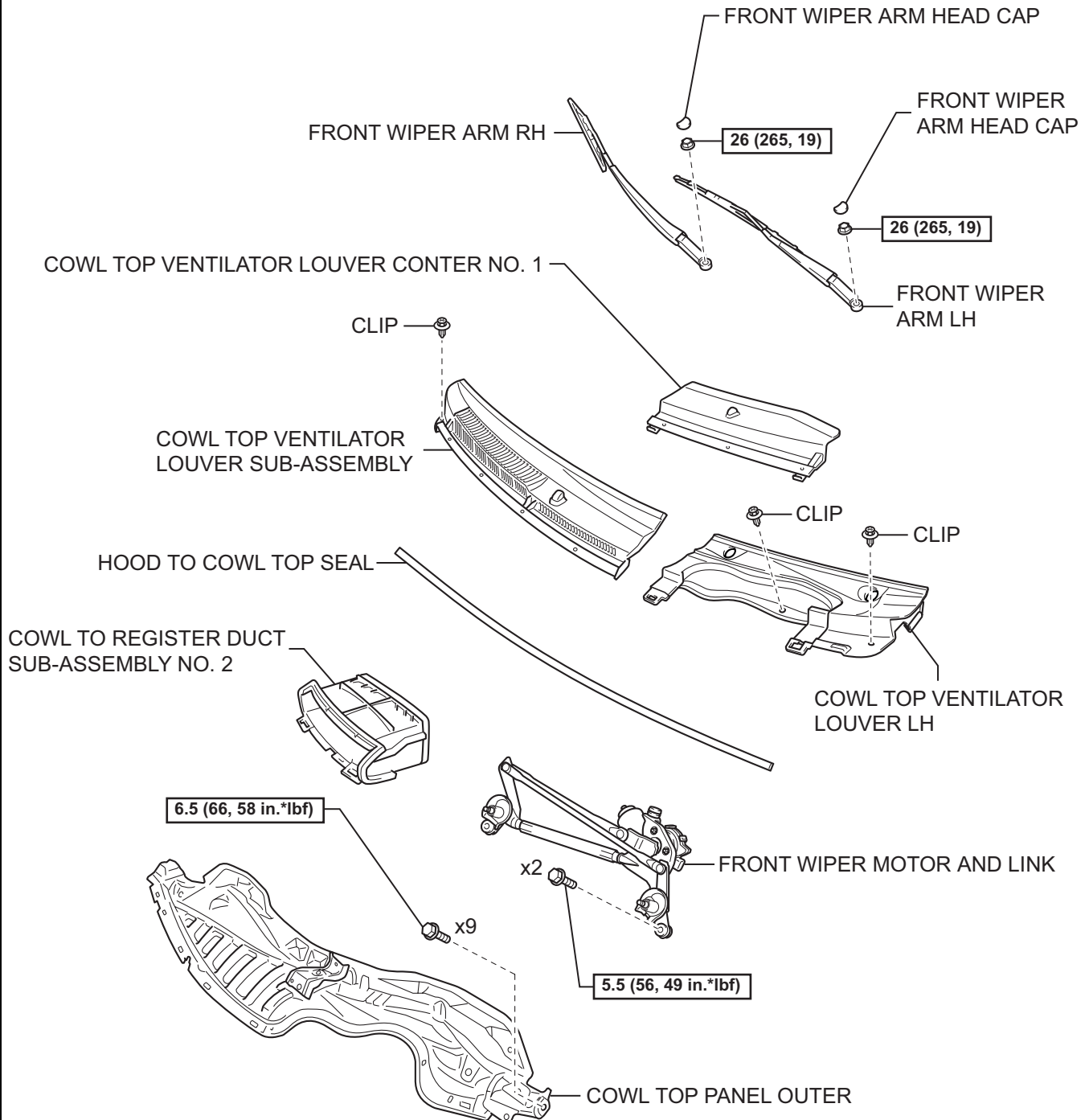


ENGINE ASSEMBLY

COMPONENTS

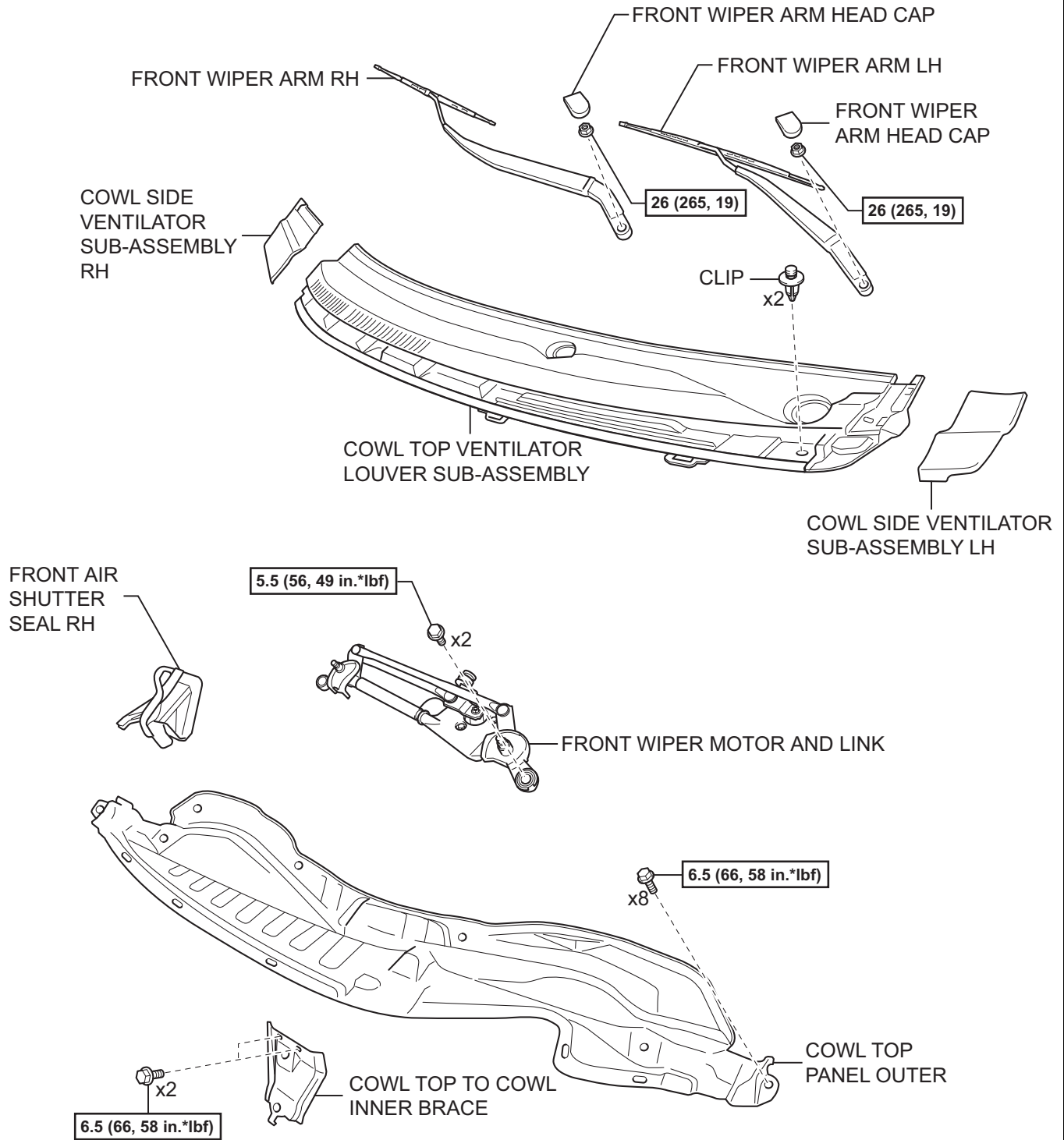
EM

for Hatchback:

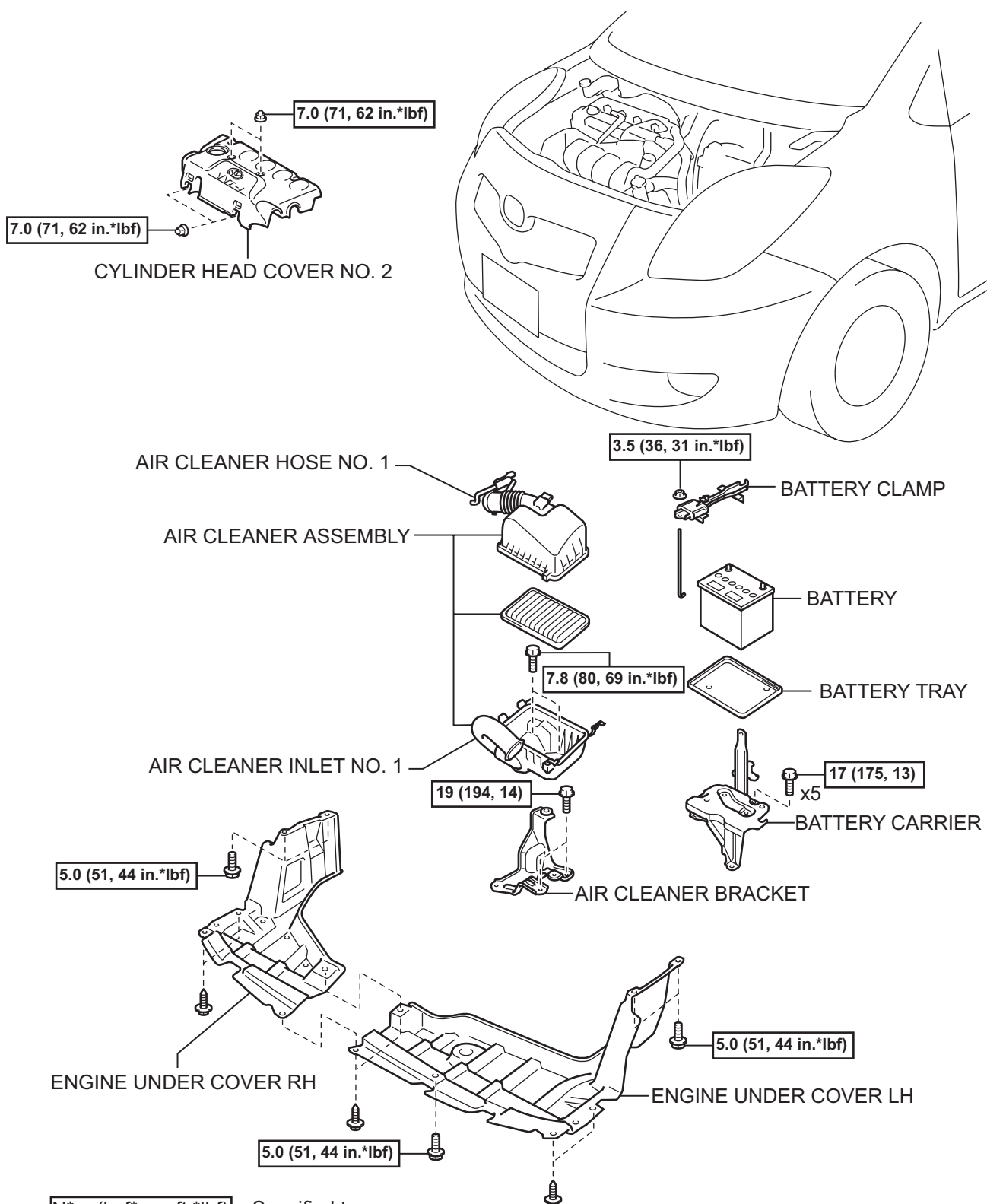


N*m (kgf*cm, ft*lbf) : Specified torque

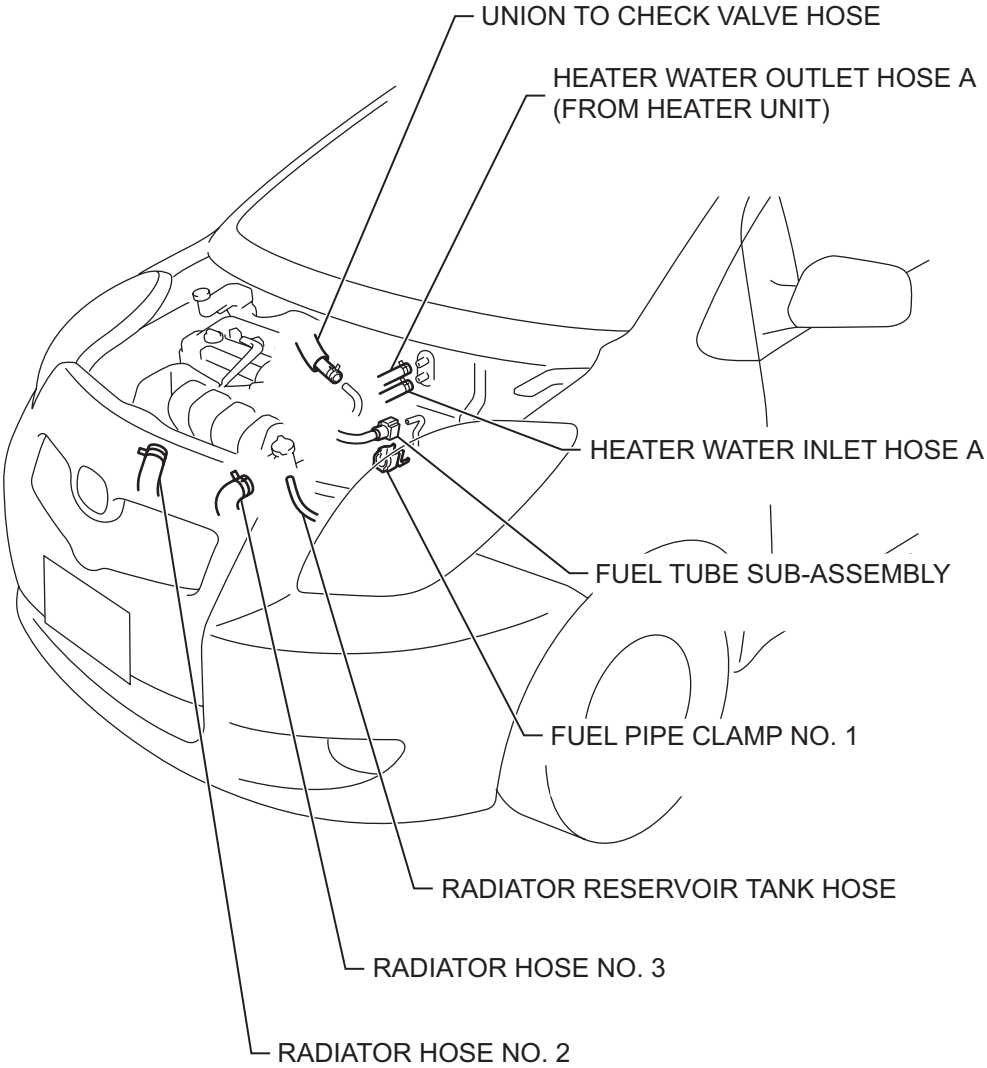
for Sedan:



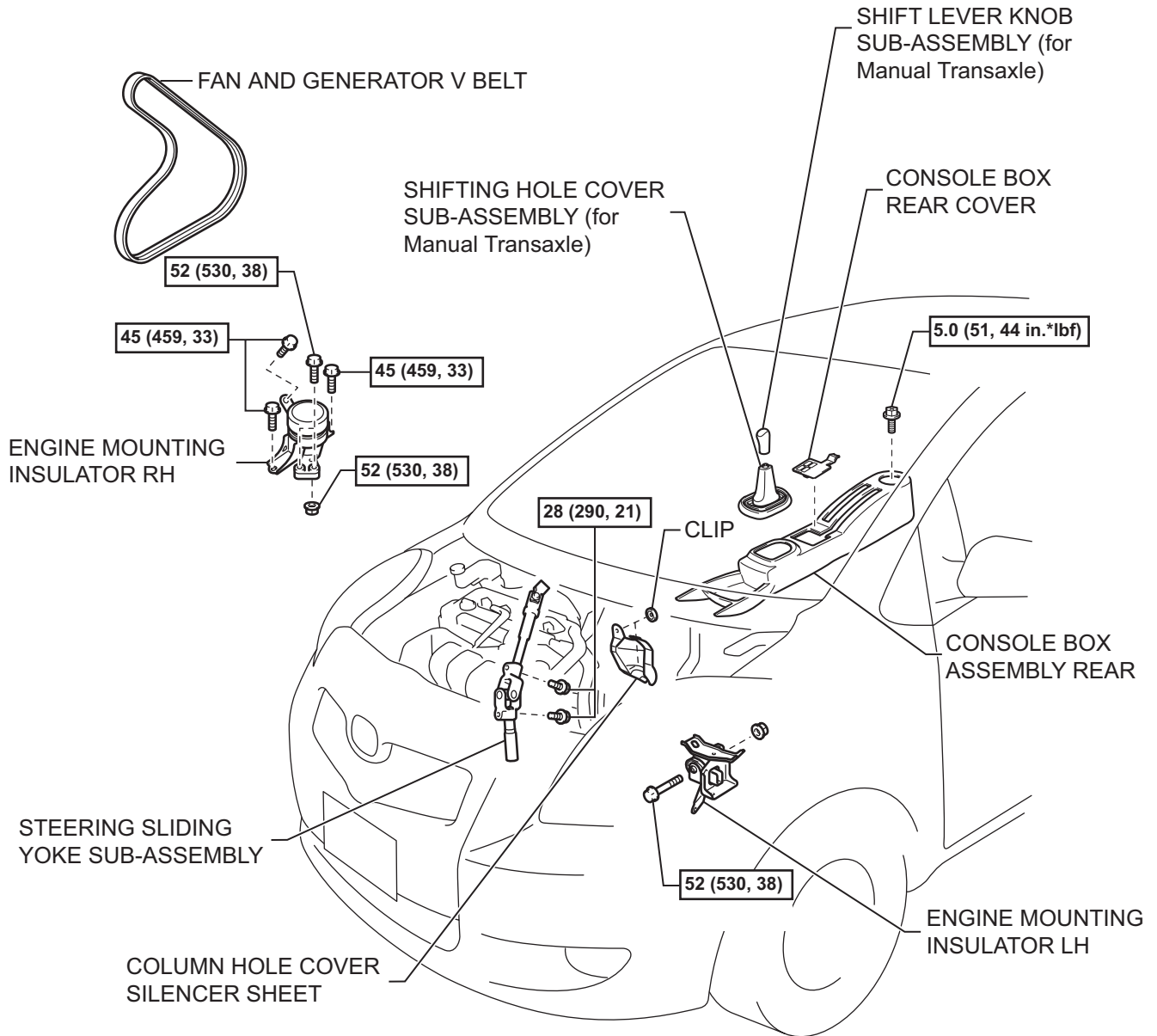
N*m (kgf*cm, ft*lbf) : Specified torque



EM



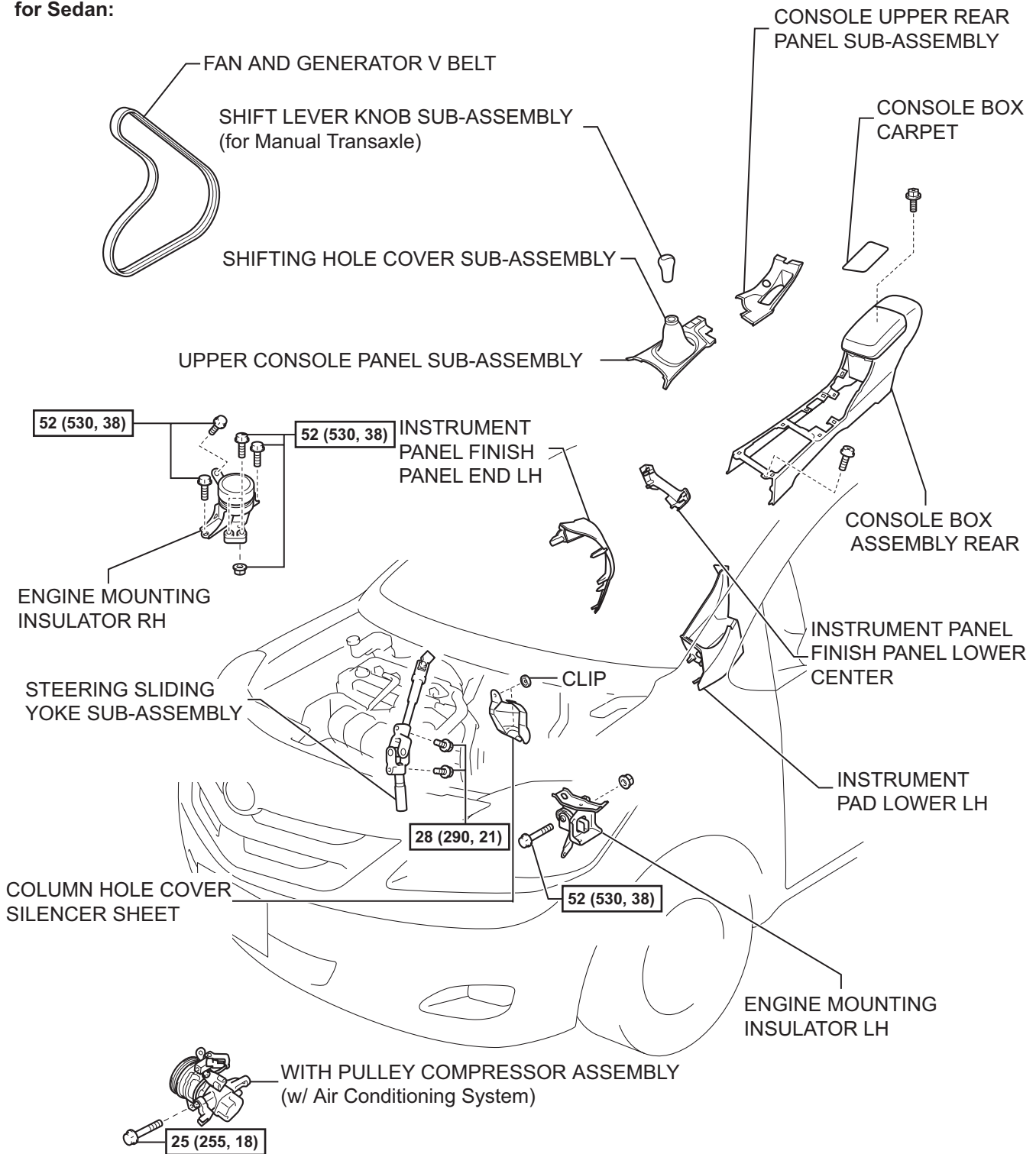
for Hatchback:



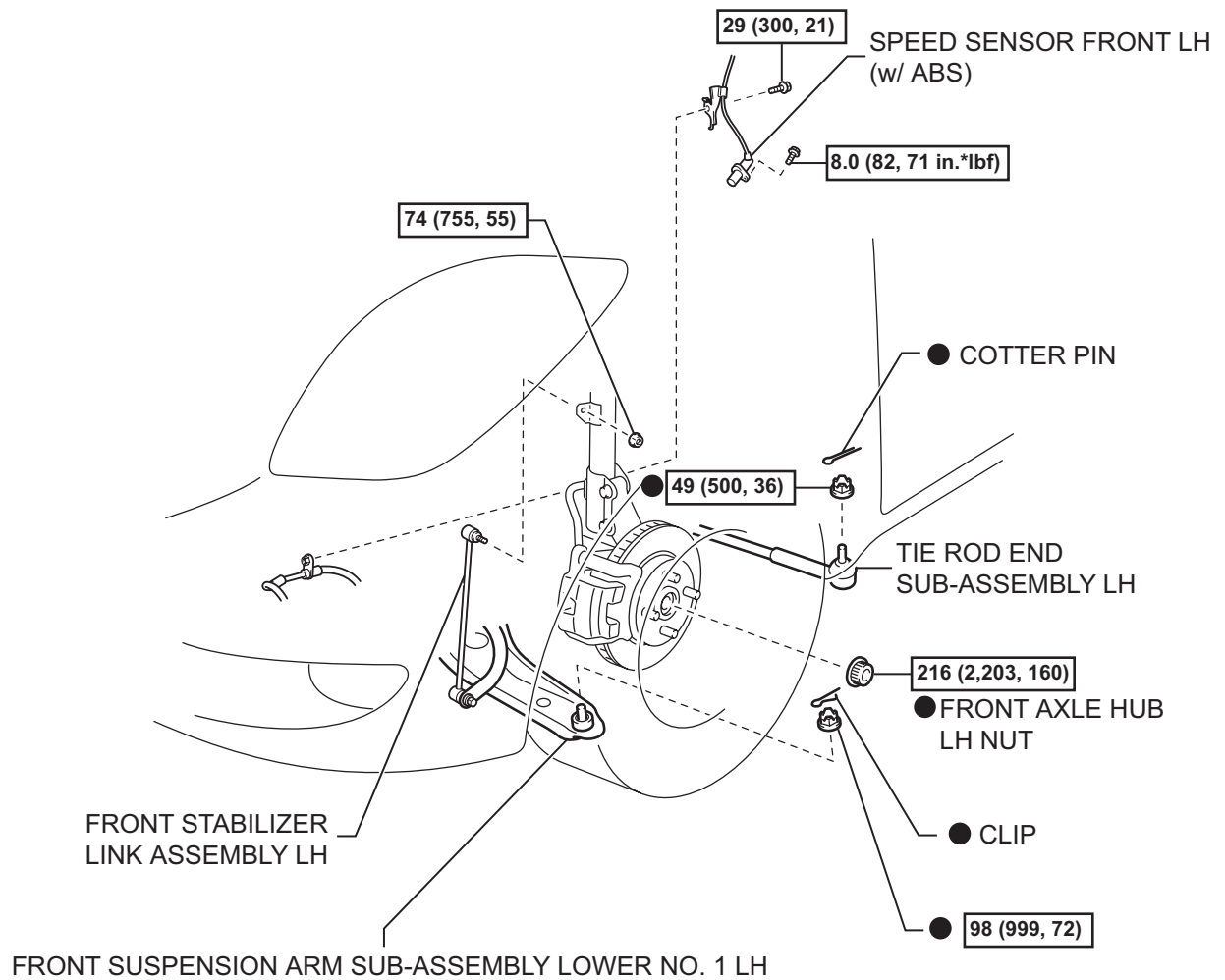
N*m (kgf*cm, ft.*lbf) : Specified torque



for Sedan:



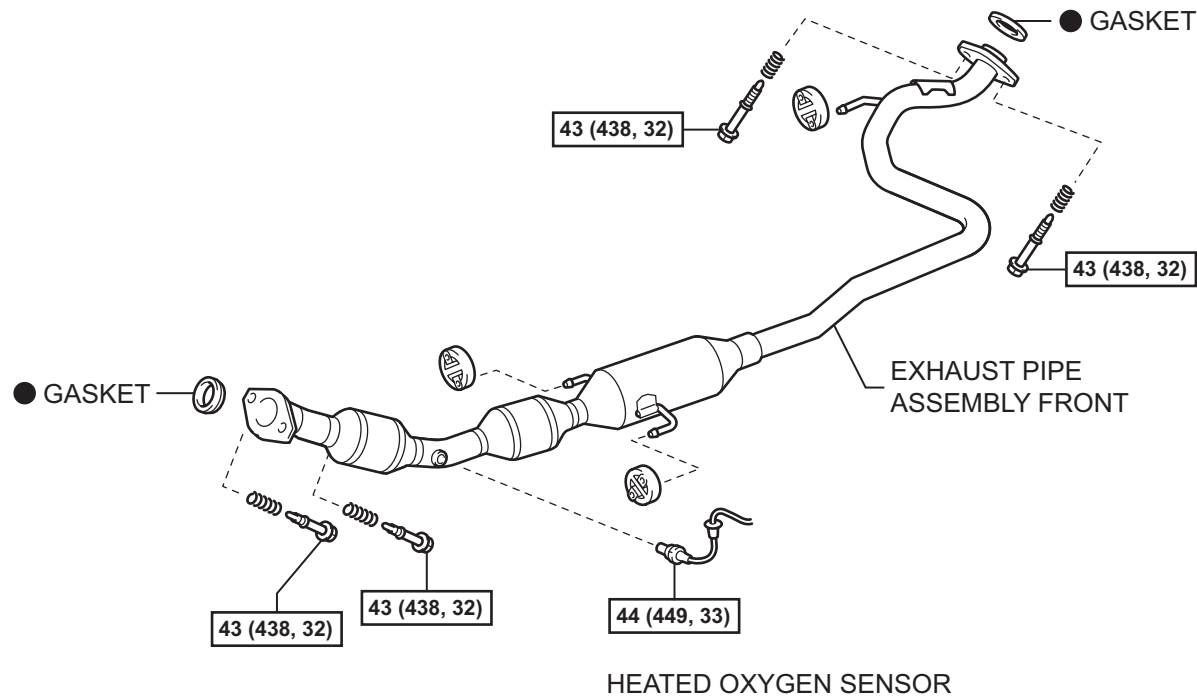
N*m (kgf*cm, ft*lb) : Specified torque



N*m (kgf*cm, ft.*lbf) : Specified torque ● Non-reusable part

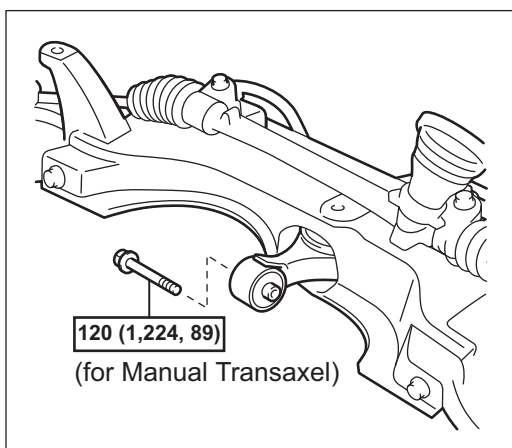
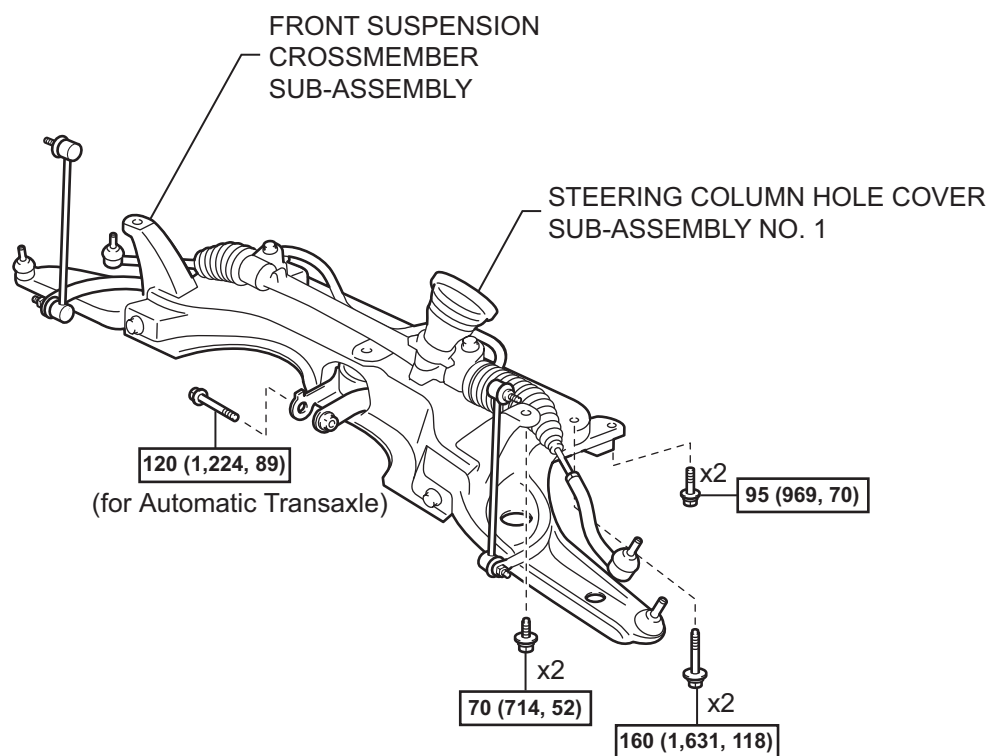


EM



$\boxed{\text{N*m (kgf*cm, ft*lb)}} : \text{Specified torque}$

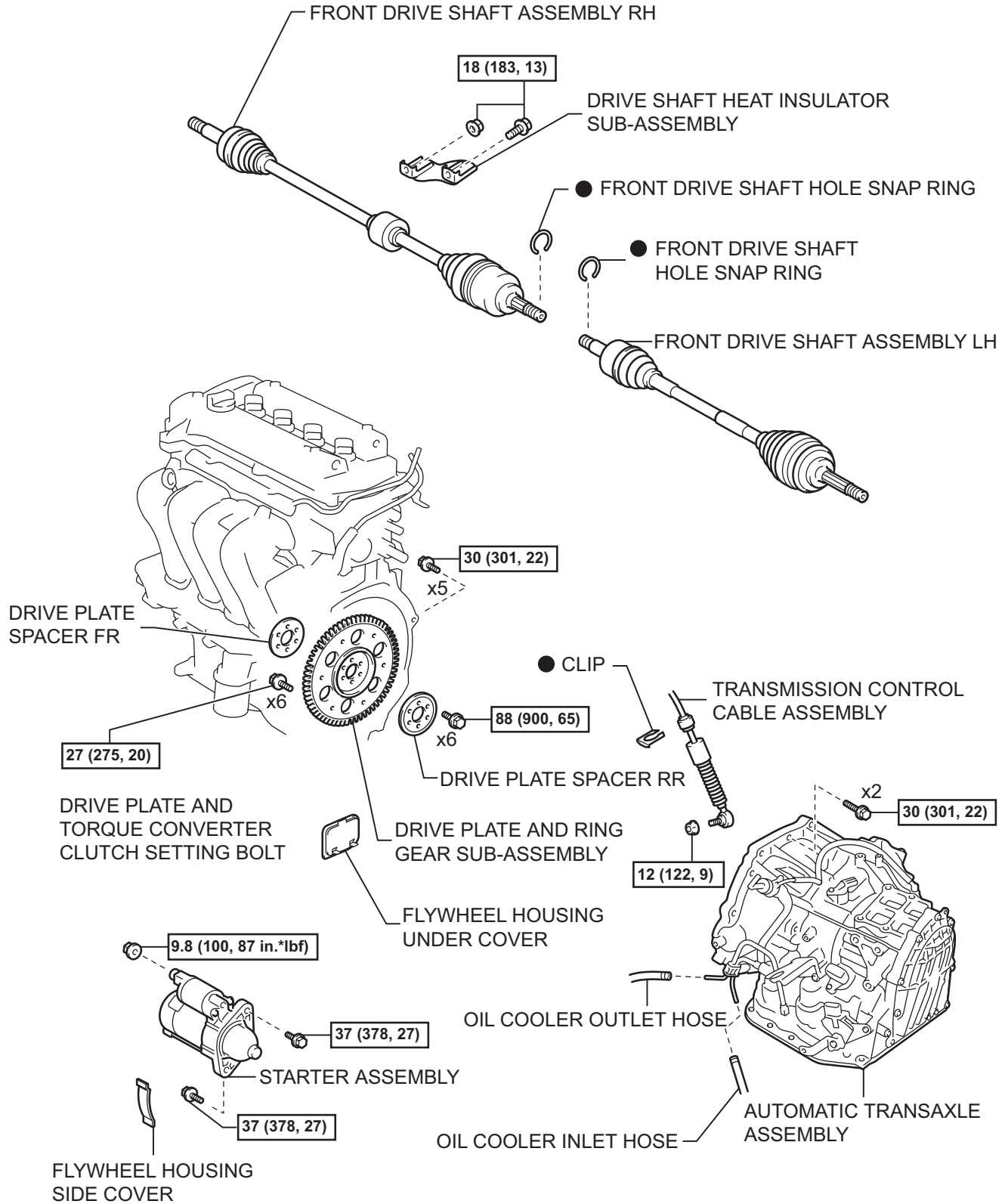
● Non-reusable part



[N*m (kgf*cm, ft.*lbf)] : Specified torque



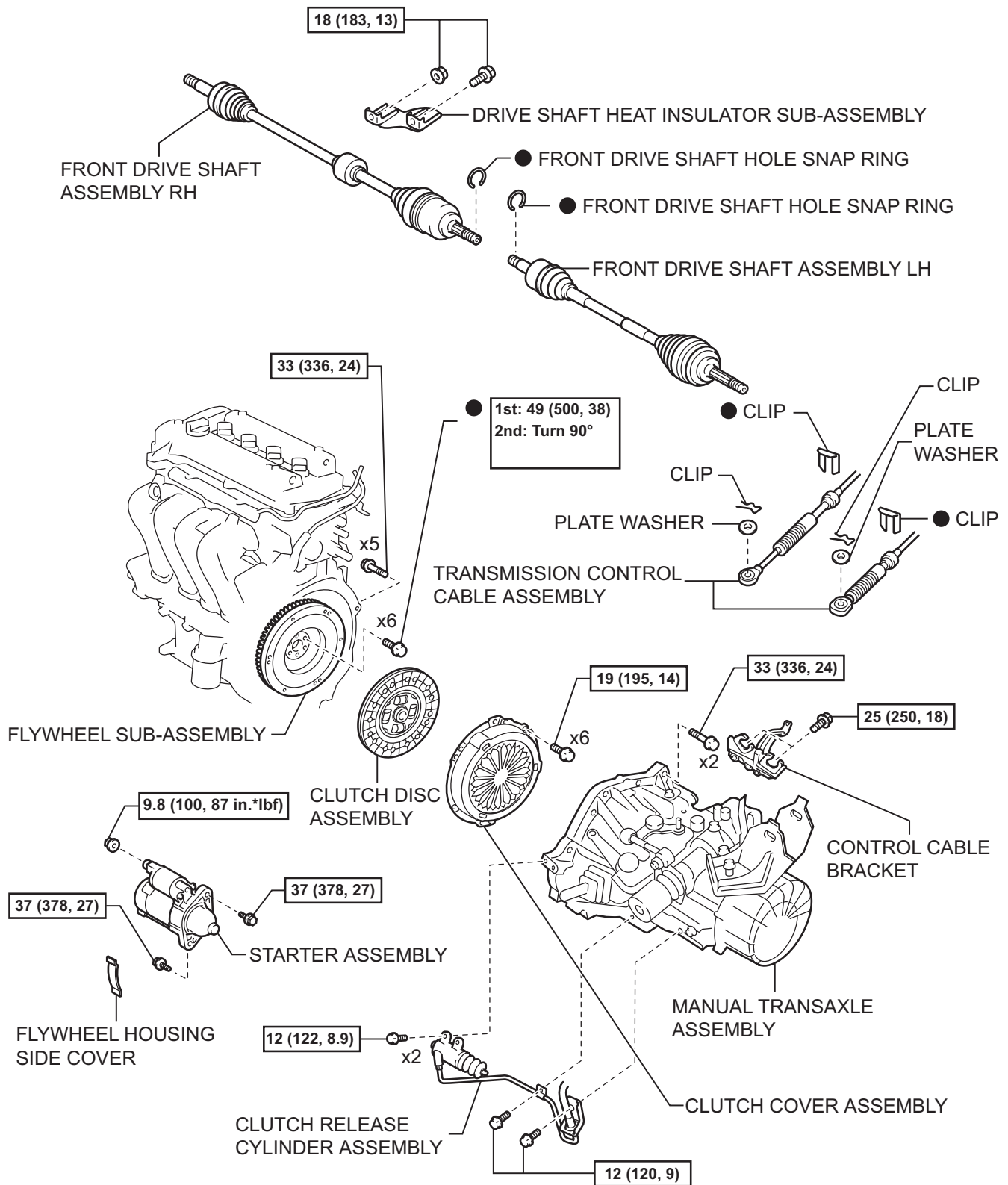
for Automatic Transaxle:



N*m (kgf*cm, ft.*lbf) : Specified torque ● Non-reusable part



for Manual Transaxle:

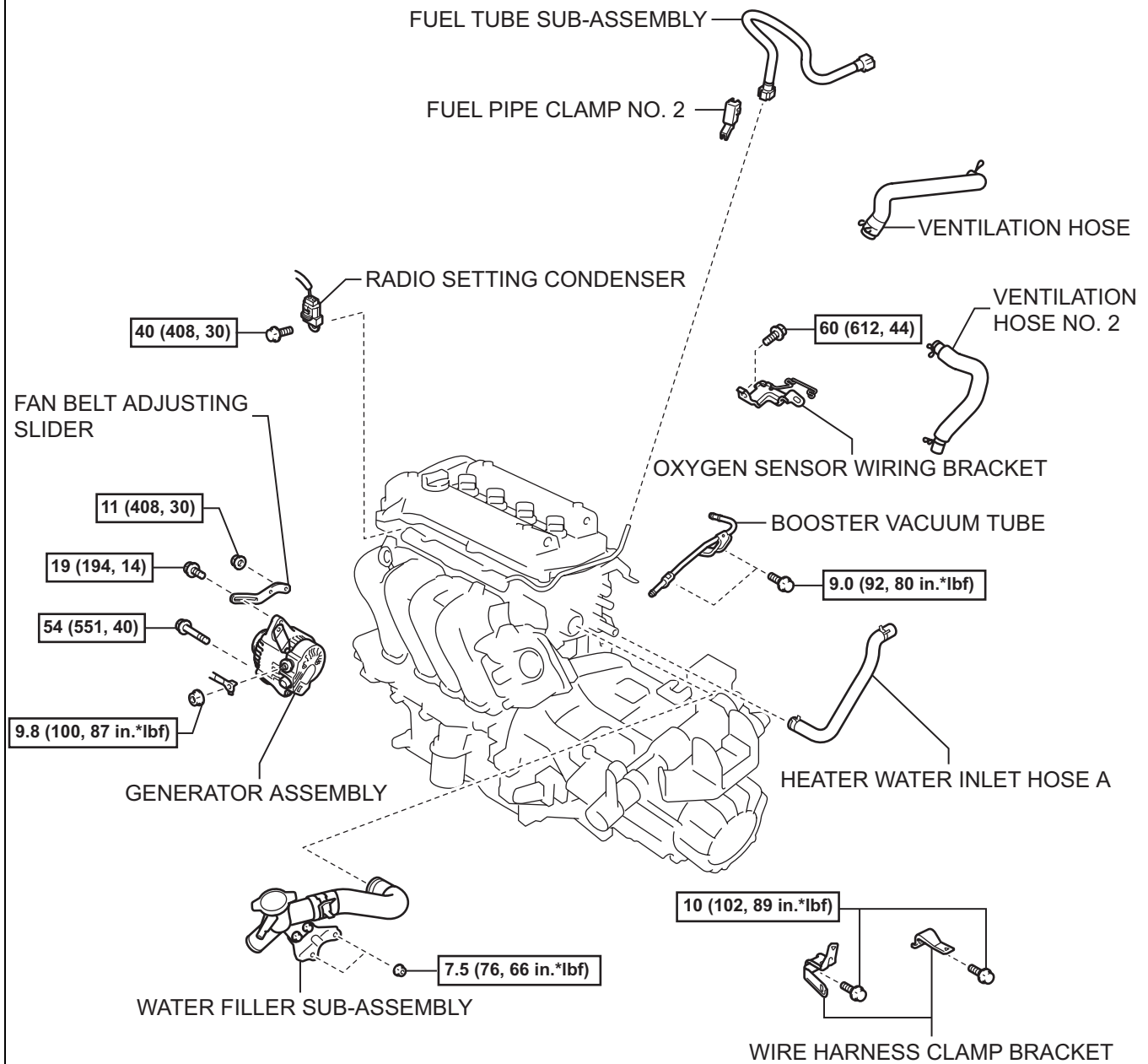


N*m (kgf*cm, ft*lbf) : Specified torque

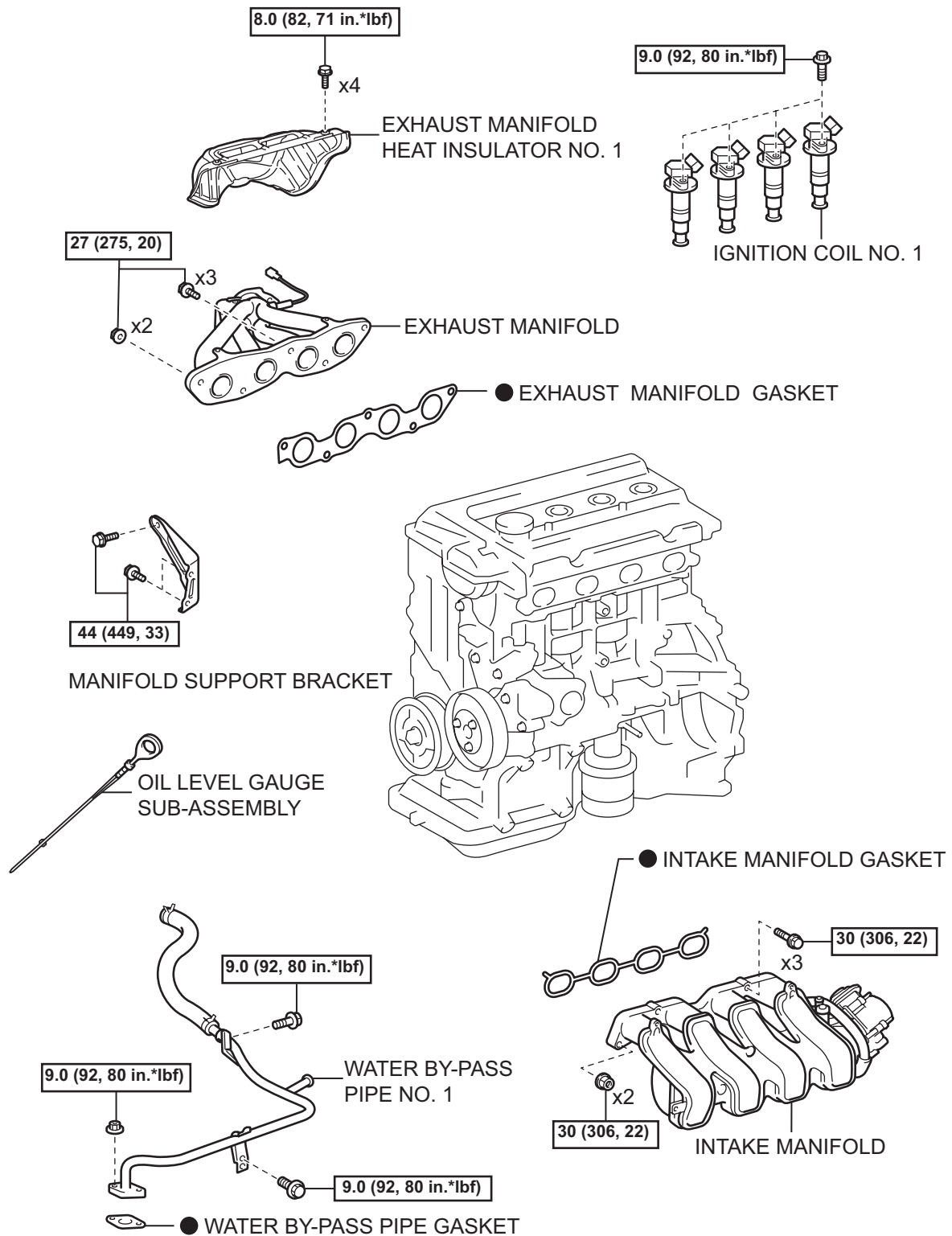
● Non-reusable part



EM



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

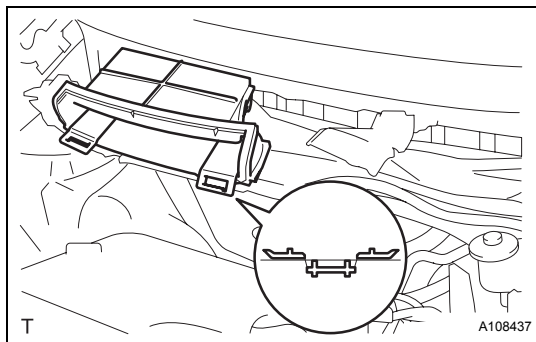


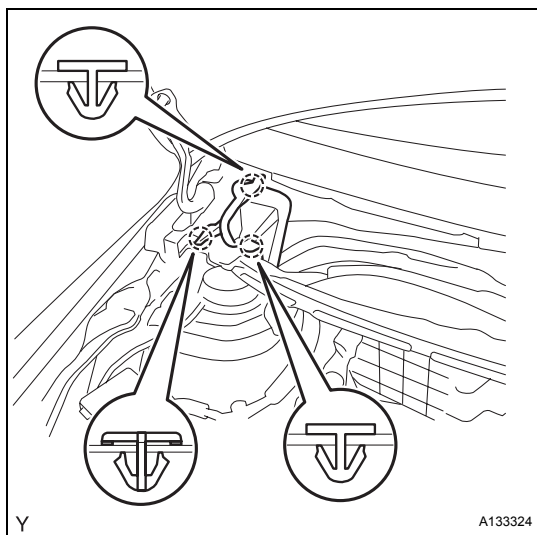
N*m (kgf*cm, ft.*lbf) : Specified torque ● Non-reusable part



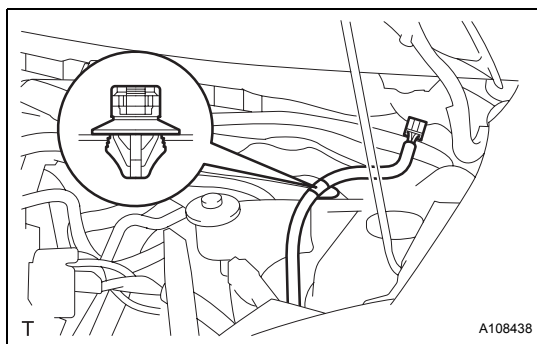
REMOVAL

1. **DISCHARGE FUEL SYSTEM PRESSURE**
2. **REMOVE BATTERY**
 - (a) Disconnect the cable from the battery terminal.
 - (b) Loosen the nut and remove the battery clamp.
 - (c) Remove the battery.
3. **REMOVE BATTERY TRAY**
4. **REMOVE FRONT WHEELS**
5. **REMOVE ENGINE UNDER COVER LH**
6. **REMOVE ENGINE UNDER COVER RH**
7. **DRAIN ENGINE COOLANT** (See page [CO-8](#))
8. **DRAIN AUTOMATIC TRANSAXLE FLUID** (for Automatic Transaxle) (See page [AX-158](#))
9. **DRAIN MANUAL TRANSAXLE OIL** (for Manual Transaxle) (See page [MX-26](#))
10. **REMOVE FRONT WIPER ARM HEAD CAP** (See page [WW-9](#))
11. **REMOVE FRONT WIPER ARM LH** (See page [WW-9](#))
12. **REMOVE FRONT WIPER ARM RH** (See page [WW-9](#))
13. **REMOVE HOOD TO COWL TOP SEAL** (for Hatchback) (See page [WW-18](#))
14. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** (for Hatchback) (See page [WW-18](#))
15. **REMOVE COWL TOP VENTILATOR LOUVER LH** (for Hatchback) (See page [WW-18](#))
16. **REMOVE COWL SIDE VENTILATOR SUB-ASSEMBLY LH** (for Sedan) (See page [WW-10](#))
17. **REMOVE COWL SIDE VENTILATOR SUB-ASSEMBLY RH** (for Sedan) (See page [WW-10](#))
18. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** (for Sedan) (See page [WW-10](#))
19. **REMOVE FRONT WIPER MOTOR AND LINK** (See page [WW-19](#))
20. **REMOVE COWL TO REGISTER DUCT SUB-ASSEMBLY NO. 2** (for Hatchback)
 - (a) Disengage the claw and remove cowl to register duct sub-assembly No. 2.

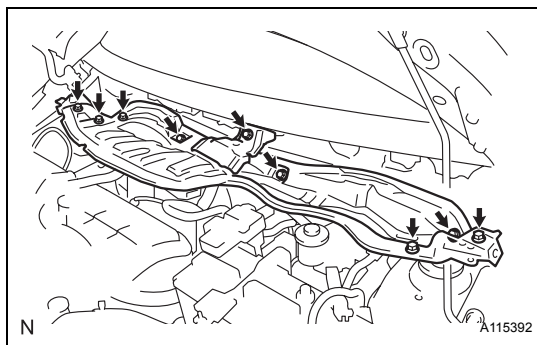


**21. REMOVE FRONT AIR SHUTTER SEAL RH (for Sedan)**

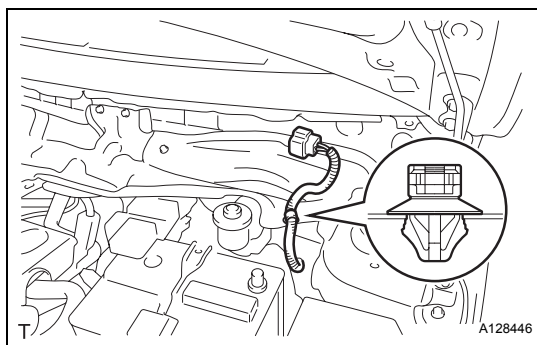
- (a) Disengage the 3 claws and remove the front air shutter seal RH.

**22. REMOVE COWL TOP PANEL OUTER (for Hatchback)**

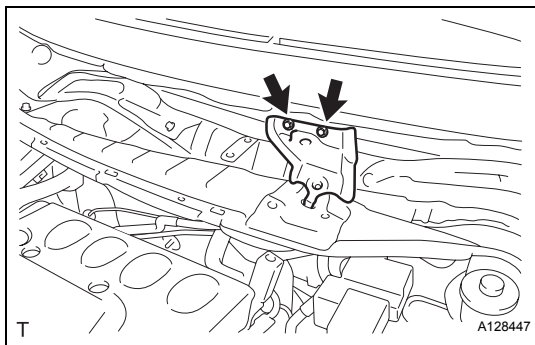
- (a) Disengage the wire harness clamp.



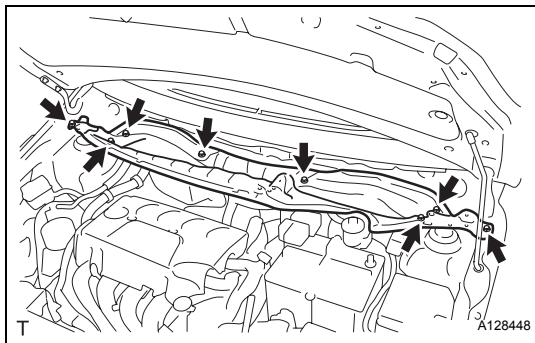
- (b) Remove the 9 bolts and remove the cowl top panel outer.

**23. REMOVE COWL TOP PANEL OUTER (for Sedan)**

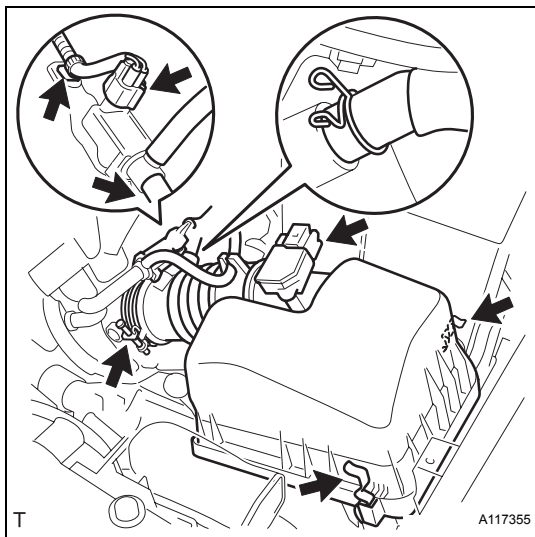
- (a) Disengage the wire harness clamp.



- (b) Remove the 2 bolts and remove the cowl top to cowl inner brace.

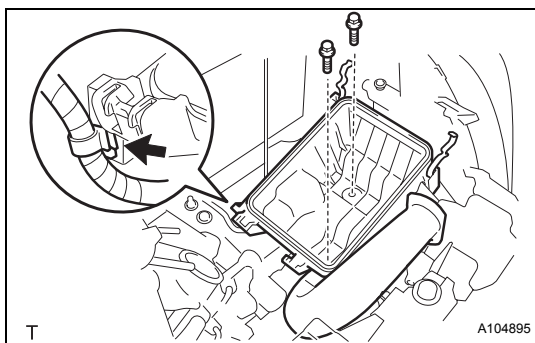


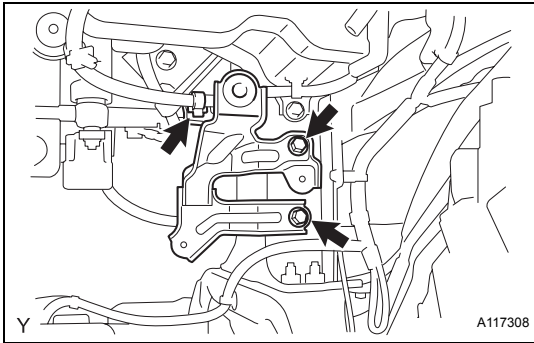
- (c) Remove the 8 bolts and remove the cowl top panel outer.



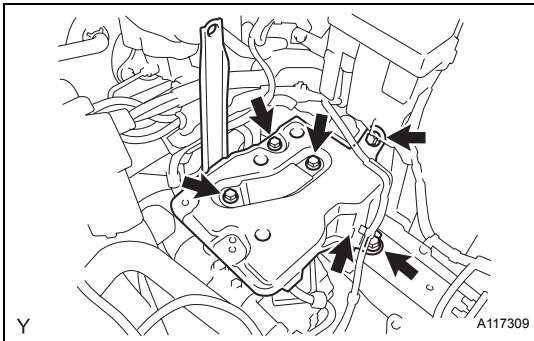
24. REMOVE AIR CLEANER ASSEMBLY

- (a) Separate the intake air flow meter connector and the wire harness clamp.
- (b) Separate the fuel vapor feed hose and fuel vapor feed hose No. 1 from the vacuum switching valve assembly.
- (c) Separate the vacuum switching valve connector and the wire harness clamp.
- (d) Separate the ventilation hose from the air cleaner hose.
- (e) Release the air cleaner cap sub-assembly with air cleaner hose No. 1.
- (f) Loosen the air cleaner hose clamp on the throttle body side and remove the air cleaner cap and the air cleaner hose.
- (g) Remove the air cleaner element.
- (h) Separate the wire harness clamp from the air cleaner case.
- (i) Remove the 2 bolts and remove the air cleaner case with air cleaner inlet No. 1.

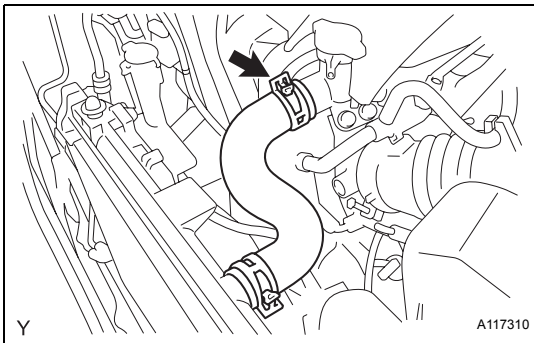


**25. REMOVE AIR CLEANER BRACKET**

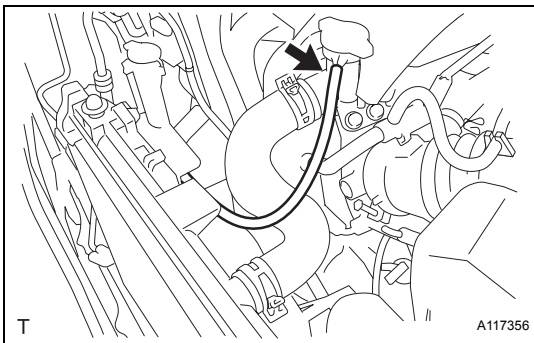
- (a) Separate the wire harness clamp from the air cleaner bracket.
- (b) Remove the 2 bolts and remove the air cleaner bracket.

**26. REMOVE BATTERY CARRIER**

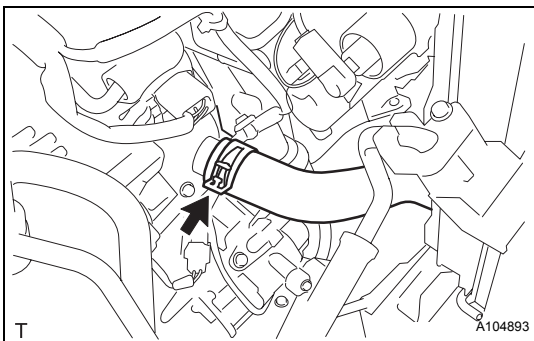
- (a) Separate the wire harness clamp from the battery carrier.
- (b) Remove the 5 bolts and remove the battery carrier.

**27. DISCONNECT RADIATOR HOSE NO. 3**

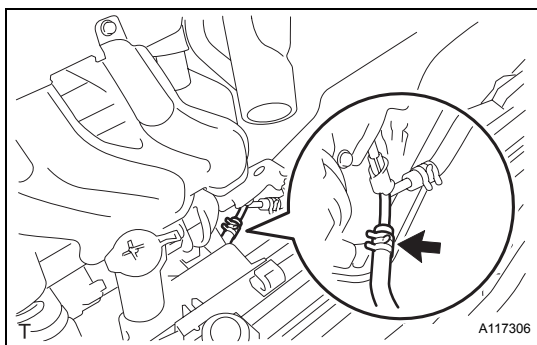
- (a) Disconnect radiator hose No. 3 from the water filler.

**28. DISCONNECT RADIATOR RESERVOIR TANK HOSE**

- (a) Disconnect the radiator reservoir tank hose from the water filler.

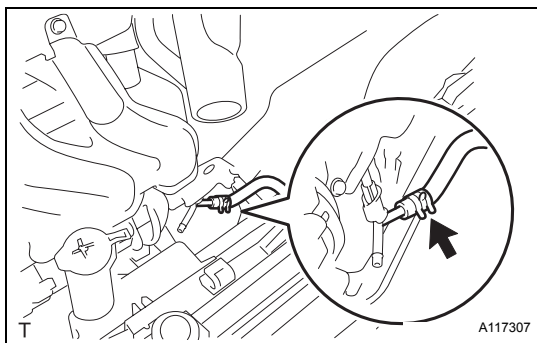
**29. DISCONNECT RADIATOR HOSE NO. 2**

- (a) Disconnect radiator hose No. 2 from the water inlet.



30. DISCONNECT OIL COOLER OUTLET HOSE (for Automatic Transaxle)

- (a) Loosen the clip and disconnect the oil cooler outlet hose.



31. DISCONNECT OIL COOLER INLET HOSE (for Automatic Transaxle)

- (a) Loosen the clip and disconnect the oil cooler inlet hose.

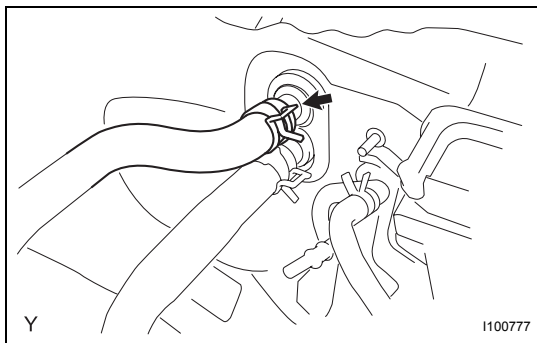
32. REMOVE CYLINDER HEAD COVER NO. 2 (See page IG-9)

33. SEPARATE TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle) (See page AX-106)

34. SEPARATE TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle) (See page MX-27)

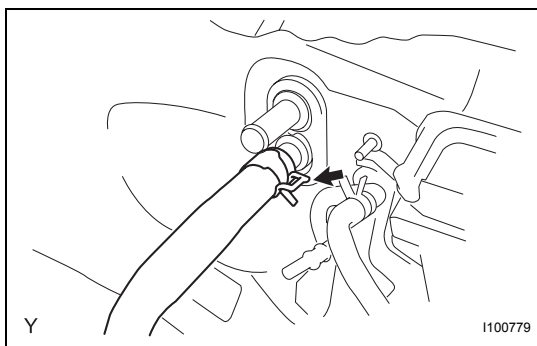
35. DISCONNECT UNION TO CHECK VALVE HOSE

- (a) Disconnect the union to check valve hose from the booster vacuum tube.



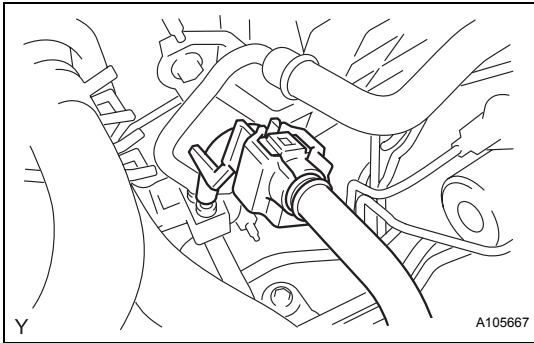
36. DISCONNECT HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)

- (a) Disconnect heater water outlet hose A from the heater unit.

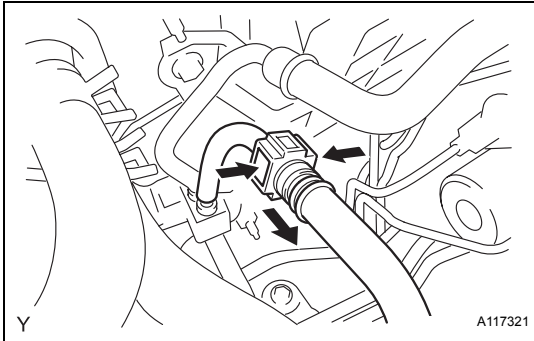


37. DISCONNECT HEATER WATER INLET HOSE A

- (a) Disconnect heater water inlet hose A from the heater unit.

**38. DISCONNECT FUEL TUBE SUB-ASSEMBLY**

- (a) Remove fuel pipe clamp No. 1.



- (b) Pinch the retainer as illustrated, then pull the fuel tube connector out of the pipe.

NOTICE:

- Remove any dirt and foreign matter from the fuel tube connector before performing this work.
- Do not allow any scratches or foreign matter on the parts when disconnecting, as the fuel tube connector has the O-rings that seal the pipe.
- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected parts by covering them with vinyl bags after disconnecting the fuel tube.
- If the fuel tube connector and pipe are stuck, push and pull to release them.

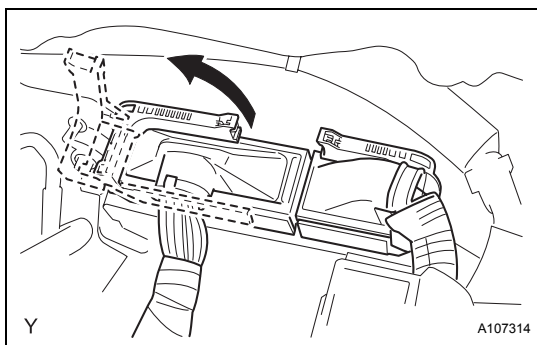
39. REMOVE FAN AND GENERATOR V BELT (See page [EM-7](#))**40. SEPARATE WITH PULLEY COMPRESSOR ASSEMBLY (w/ Air Conditioning System)**

- (a) Disconnect the connector.
(b) Remove the 4 bolts and separate the with pulley compressor assembly.

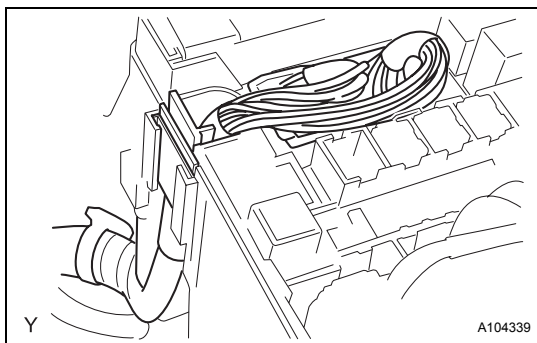
HINT:

Remove the compressor assembly together with the low and high pressure hoses, then suspend them from the body with a piece of rope.

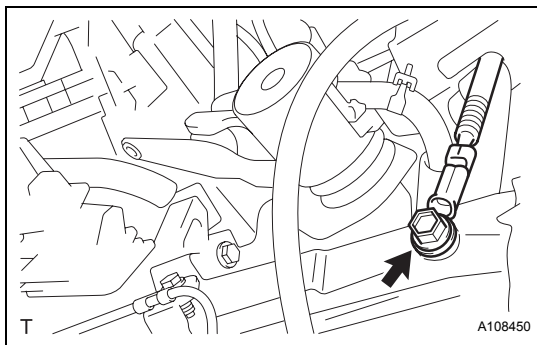
41. SEPARATE CLUTCH RELEASE CYLINDER ASSEMBLY (for Manual Transaxle) (See page [MX-27](#))

**42. DISCONNECT ENGINE WIRE**

- (a) Pull up the lever and disconnect the connector of the engine control computer.



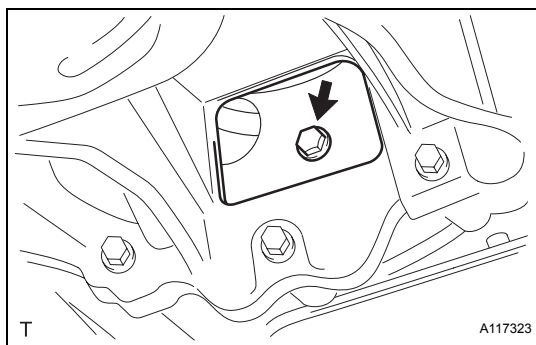
- (b) Remove the 2 connectors and the clamp from the engine room junction block and disconnect the wire harness.



- (c) Remove the bolt and separate the earth wire of the engine room wire harness.
- (d) Disconnect all the wire harnesses and connectors. Make sure that no wire harness is connected between the body and engine.

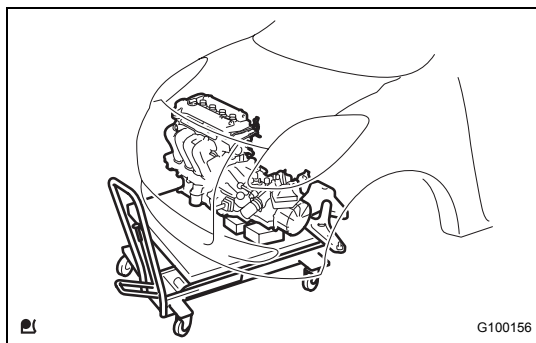
43. REMOVE COLUMN HOLE COVER SILENCER SHEET
(See page [PS-74](#))**44. SEPARATE STEERING SLIDING YOKE SUB-ASSEMBLY** (See page [PS-74](#))**45. REMOVE STEERING COLUMN HOLE COVER SUB-ASSEMBLY NO. 1** (See page [PS-75](#))**46. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY** (for Manual Transaxle)**47. REMOVE SHIFTING HOLE COVER SUB-ASSEMBLY** (for Manual Transaxle) (See page [PB-6](#))**48. REMOVE CONSOLE BOX REAR COVER** (for Hatchback) (See page [PB-6](#))**49. REMOVE INSTRUMENT PANEL FINISH PANEL LOWER CENTER** (for Sedan) (See page [ME-138](#))**50. REMOVE INSTRUMENT PANEL FINISH PANEL END LH** (for Sedan) (See page [ME-138](#))**51. REMOVE INSTRUMENT PAD LOWER LH** (for Sedan) (See page [IP-44](#))**52. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY** (for Sedan) (See page [IP-84](#))**53. REMOVE CONSOLE UPPER REAR PANEL SUB-ASSEMBLY** (for Sedan) (See page [IP-84](#))

54. REMOVE CONSOLE BOX CARPET (for Sedan) (See page [PB-7](#))
55. REMOVE REAR CONSOLE BOX ASSEMBLY (See page [PB-8](#))
56. REMOVE HEATED OXYGEN SENSOR (See page [EC-22](#))
57. REMOVE EXHAUST PIPE ASSEMBLY FRONT (See page [EX-5](#))
58. REMOVE FRONT AXLE HUB LH NUT (See page [DS-3](#))
59. REMOVE FRONT AXLE HUB RH NUT (See page [AX-159](#))
60. SEPARATE SPEED SENSOR FRONT LH (w/ ABS) (See page [DS-3](#))
61. SEPARATE SPEED SENSOR FRONT RH (w/ ABS) (See page [AX-159](#))
62. SEPARATE TIE ROD END SUB-ASSEMBLY LH (See page [DS-3](#))
63. SEPARATE TIE ROD END SUB-ASSEMBLY RH (See page [AX-160](#))
64. SEPARATE FRONT STABILIZER LINK ASSEMBLY LH (See page [DS-4](#))
65. SEPARATE FRONT STABILIZER LINK ASSEMBLY RH (See page [AX-160](#))
66. SEPARATE FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO. 1 LH (See page [DS-4](#))
67. SEPARATE FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO. 1 RH (See page [AX-160](#))
68. SEPARATE FRONT AXLE ASSEMBLY LH (See page [DS-4](#))
69. SEPARATE FRONT AXLE ASSEMBLY RH (See page [MX-29](#))
70. REMOVE FRONT DRIVE SHAFT ASSEMBLY LH (See page [DS-5](#))
71. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH (See page [DS-5](#))
72. REMOVE FLYWHEEL HOUSING UNDER COVER (for Automatic Transaxle)



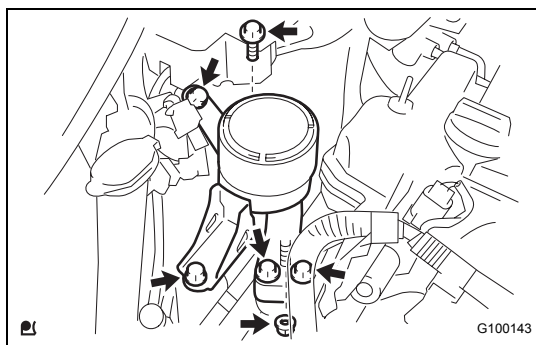
73. REMOVE DRIVE PLATE AND TORQUE CONVERTER CLUTCH SETTING BOLT (for Automatic Transaxle)

- (a) Remove the 6 torque converter set bolts.

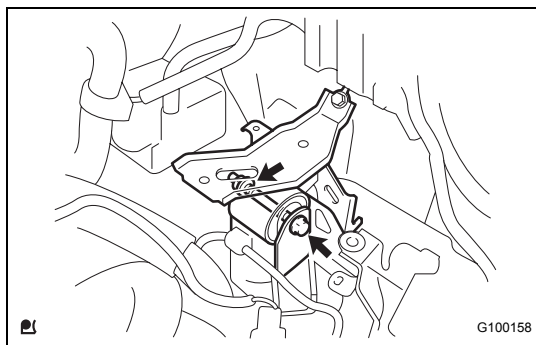


74. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE

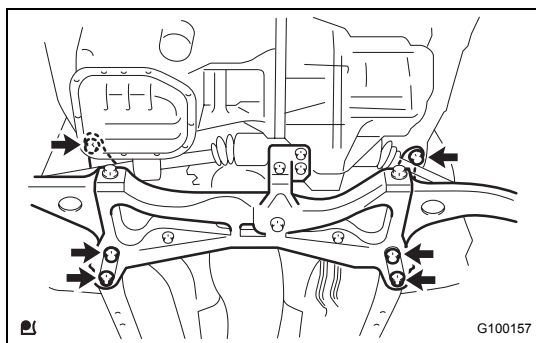
- (a) Set the engine lifter.



- (b) Remove the 5 bolts and the nut and remove the engine mounting insulator RH.

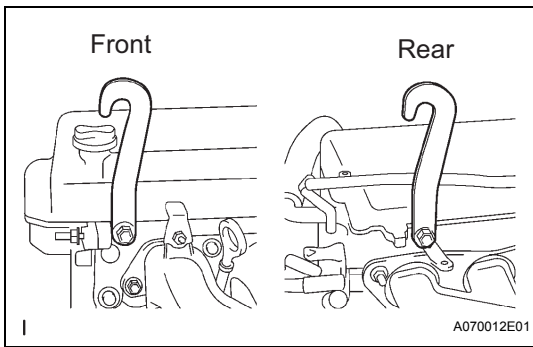


- (c) Remove the through bolt and the nut and separate the engine mounting insulator LH.



75. REMOVE FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY

- (a) Remove the bolt and remove the radio setting condenser.
- (b) Remove the bolt and remove the oxygen sensor wiring bracket.



- (c) Install the engine hangers with the bolts, as shown in the illustration.

Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)

Part No.:

12281-21010 for engine hanger

91642-81025 for bolt

- (d) Using an engine sling device and a chain block, suspend the engine assembly with transaxle and front suspension crossmember.
- (e) Remove the through bolt from the engine moving control rod and remove the front suspension crossmember.

76. REMOVE VENTILATION HOSE

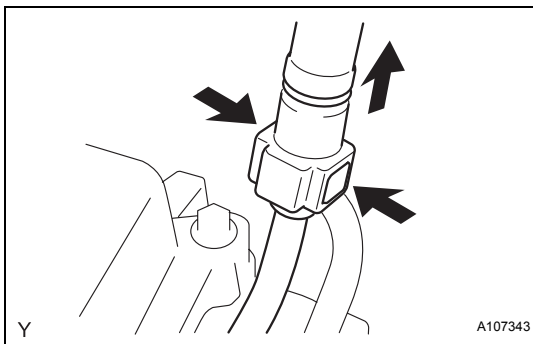
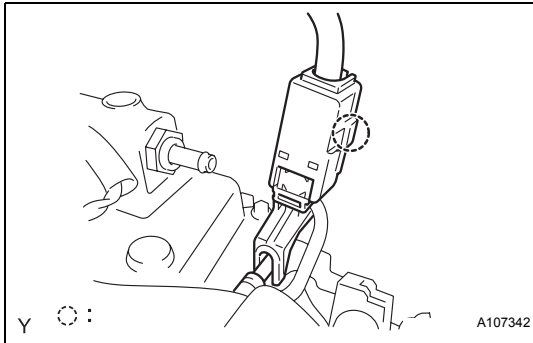
- (a) Loosen the 2 clips and remove the ventilation hose.

77. REMOVE VENTILATION HOSE NO. 2

- (a) Loosen the clips and remove ventilation hose No. 2.

78. REMOVE FUEL TUBE SUB-ASSEMBLY

- (a) Disengage the claw and remove fuel pipe clamp No. 2.



- (b) Pinch the fuel tube connector retainer from both sides, disconnect the fuel tube connector and separate the fuel tube from the pipe.

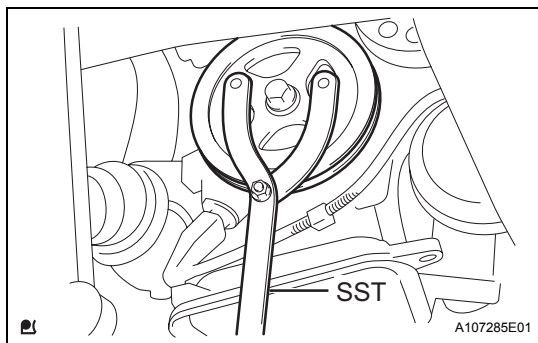
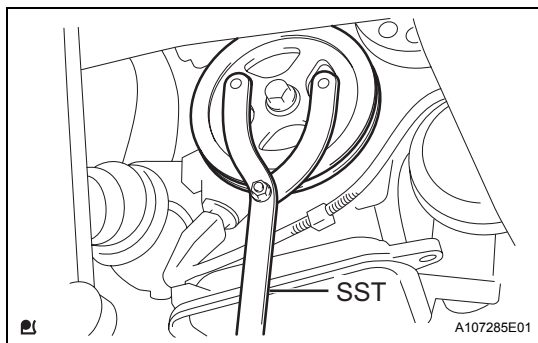
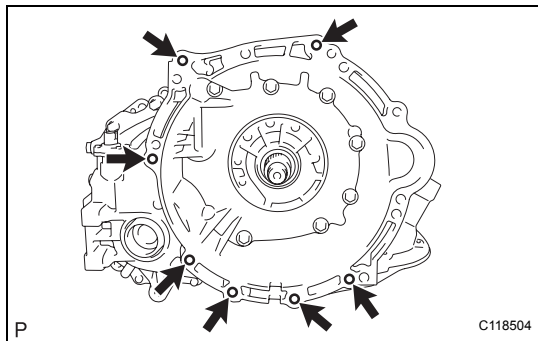
NOTICE:

- Remove any dirt and foreign matter from the fuel tube connector before performing this work.
- Do not allow any scratches or foreign matter on the parts when disconnecting, as the fuel tube connector has the O-rings that seal the pipe.
- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected parts by covering them with vinyl bags after disconnecting the fuel tube.
- If the fuel tube connector and pipe are stuck, push and pull to release them.

79. REMOVE WATER FILLER SUB-ASSEMBLY

- (a) Disconnect radiator hose No. 1 from the cylinder head.
- (b) Remove the 2 nuts and remove the water filler sub-assembly.

EM

**80. REMOVE HEATER WATER INLET HOSE A**

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

81. REMOVE FLYWHEEL HOUSING SIDE COVER (See page [ST-9](#))**82. REMOVE STARTER ASSEMBLY (See page [ST-9](#))****83. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY (for Automatic Transaxle)**

- (a) Remove the 7 bolts and remove the automatic transaxle with torque converter.

84. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transaxle)

- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)
- (b) Remove the 6 bolts, drive plate spacer FR, drive plate and ring gear sub-assembly and drive plate spacer RR.

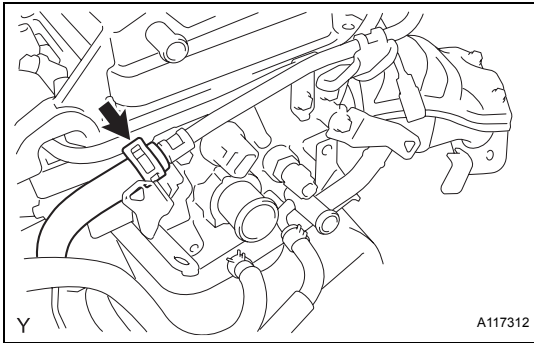
85. REMOVE CONTROL CABLE BRACKET (for Manual Transaxle) (See page [MX-28](#))**86. REMOVE MANUAL TRANSAXLE ASSEMBLY (for Manual Transaxle) (See page [MX-30](#))****87. REMOVE CLUTCH COVER ASSEMBLY (for Manual Transaxle) (See page [CL-15](#))****88. REMOVE CLUTCH DISC ASSEMBLY (for Manual Transaxle)****89. REMOVE FLYWHEEL SUB-ASSEMBLY (for Manual Transaxle)**

- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)
- (b) Remove the 6 bolts and flywheel.

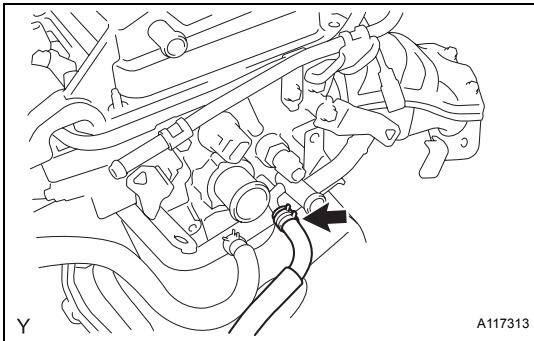
90. REMOVE OIL LEVEL GAUGE SUB-ASSEMBLY**91. REMOVE IGNITION COIL NO. 1**

- (a) Disconnect the connectors of the ignition coils.
- (b) Remove the bolt and remove all the ignition coils.

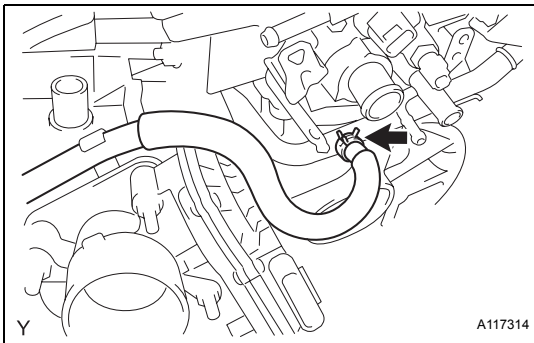
92. REMOVE GENERATOR ASSEMBLY (See page [CH-10](#))

**93. REMOVE INTAKE MANIFOLD**

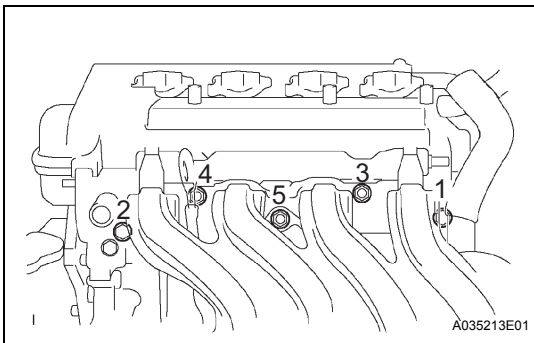
- (a) Disconnect the union to connector tube hose from the booster vacuum tube.
- (b) Disconnect the engine wire from the intake manifold.



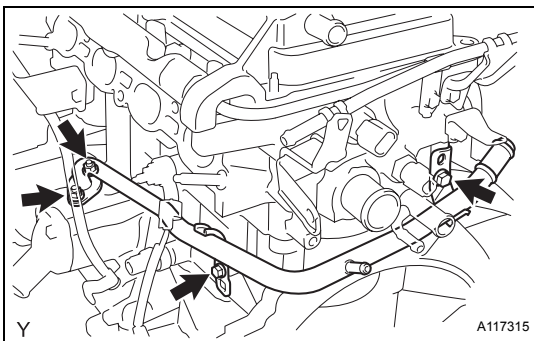
- (c) Disconnect the water by-pass hose from the cylinder head.



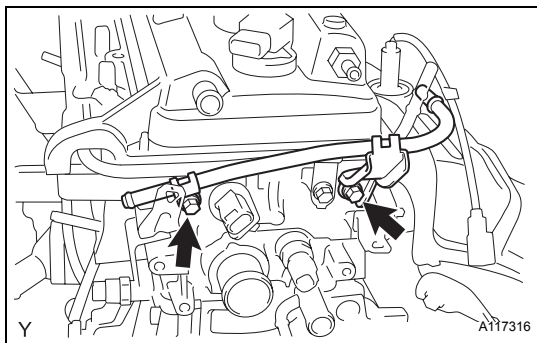
- (d) Disconnect the water by-pass hose from water bypass pipe No. 1.
- (e) Disconnect the throttle with motor body assembly connector.



- (f) Remove the 3 bolts and 2 nuts in the order shown in the illustration and remove the intake manifold.
- (g) Remove the gasket from the intake manifold.

**94. REMOVE WATER BY-PASS PIPE NO. 1**

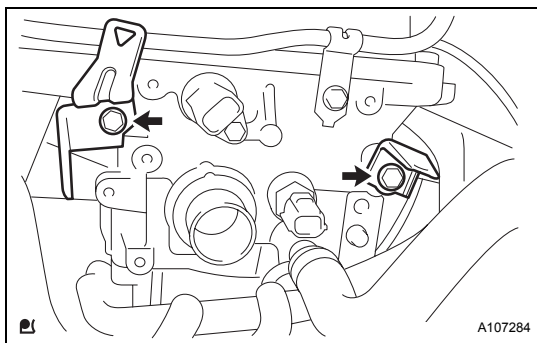
- (a) Remove the 2 bolts and 2 nuts and remove water by-pass pipe No. 1.

**95. REMOVE BOOSTER VACUUM TUBE**

- (a) Remove the 2 bolts and remove the booster vacuum tube.

96. REMOVE ENGINE WIRE

- (a) Disconnect all the sensor connectors and wire harness clamps from the engine assembly and remove the engine wire harness.

**97. REMOVE WIRE HARNESS CLAMP BRACKET**

- (a) Remove the 2 bolts and remove the 2 wire harness clamp brackets.

98. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO. 1

- (a) Remove the 4 bolts and remove the exhaust manifold heat insulator.

99. REMOVE MANIFOLD SUPPORT BRACKET

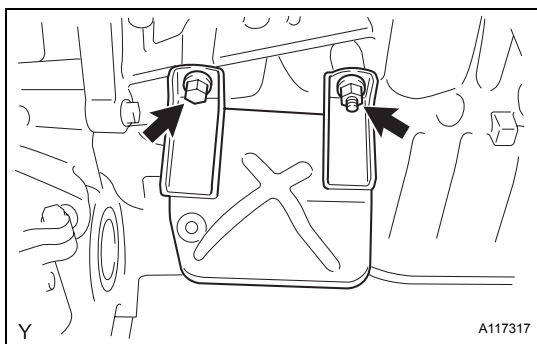
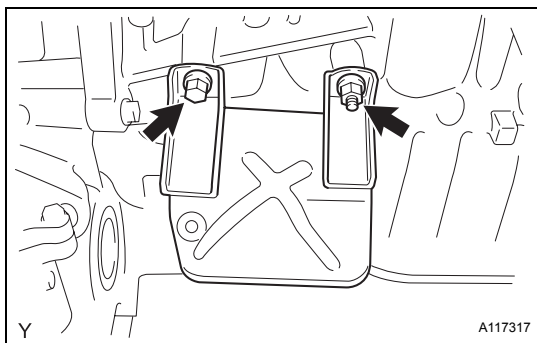
- (a) Remove the 3 bolts and remove the manifold support bracket.

100. REMOVE EXHAUST MANIFOLD

- (a) Remove the 3 bolts and 2 nuts and remove the exhaust manifold.

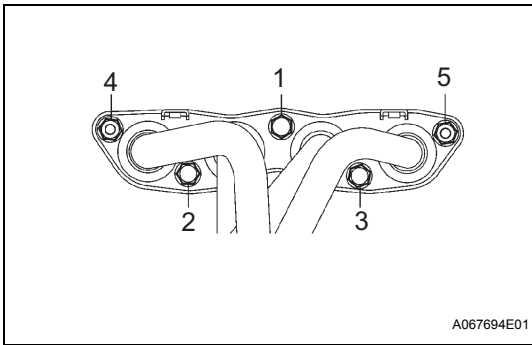
101. REMOVE DRIVE SHAFT HEAT INSULATOR SUB-ASSEMBLY

- (a) Remove the bolt and nut and remove the drive shaft heat insulator.

**INSTALLATION****1. INSTALL DRIVE SHAFT HEAT INSULATOR SUB-ASSEMBLY**

- (a) Install the drive shaft heat insulator sub-assembly with the bolt and nut.

Torque: 18 N*m (183 kgf*cm, 13 ft.*lbf)



2. INSTALL EXHAUST MANIFOLD

- (a) Tighten the exhaust manifold nuts and bolts, in the order shown in the illustration, through a new gasket.

Torque: 27 N*m (275 kgf*cm, 20 ft.*lbf)

3. INSTALL MANIFOLD SUPPORT BRACKET

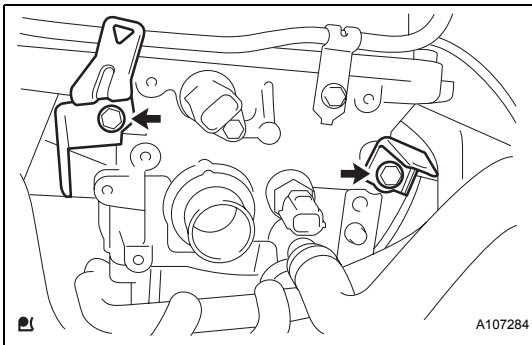
- (a) Install the manifold bracket with the 3 bolts.

Torque: 44 N*m (449 kgf*cm, 33 ft.*lbf)

4. INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.1

- (a) Install the exhaust manifold insulator with the 4 bolts.

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



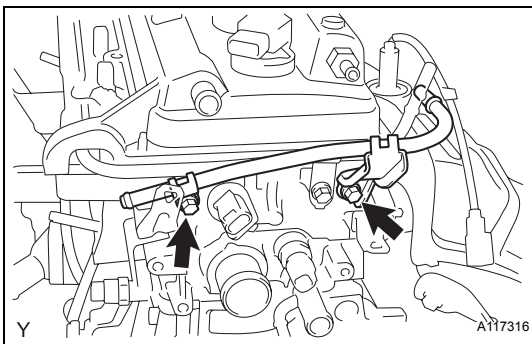
5. INSTALL WIRE HARNESS CLAMP BRACKET

- (a) Install the 2 wire harness clamp brackets with the 2 bolts.

Torque: 10 N*m (102 kgf*cm, 89 in.*lbf)

6. INSTALL ENGINE WIRE

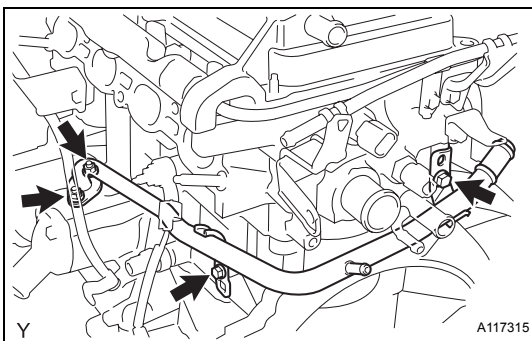
- (a) Connect all the sensor connectors and wire harness clamps to the engine assembly and install the engine wire harness.



7. INSTALL BOOSTER VACUUM TUBE

- (a) Install the booster vacuum tube with the 2 bolts.

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



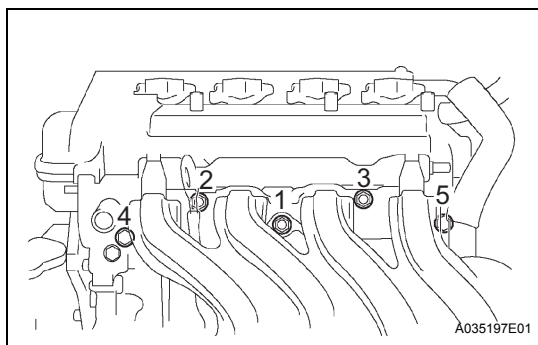
8. INSTALL WATER BY-PASS PIPE NO. 1

- (a) Install water by-pass pipe No. 1 through a new gasket with the 2 bolts and 2 nuts.

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

9. INSTALL INTAKE MANIFOLD

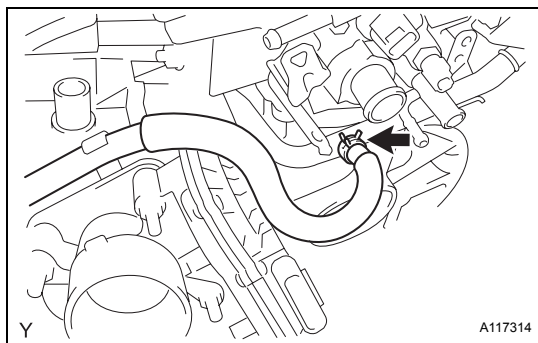
- (a) Install a new gasket onto the intake manifold.



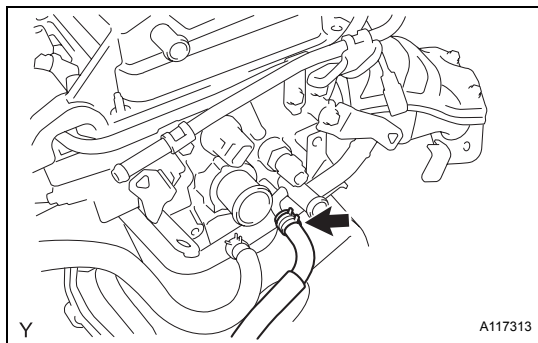
- (b) Provisionally tighten the intake manifold nuts and bolts in the order shown in the illustration, and then tighten them to the specified torque.

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

- (c) Connect the engine wire to the intake manifold.



- (d) Connect the water by-pass hose to water bypass pipe No. 1.



- (e) Connect the water by-pass hose to the cylinder head.
- (f) Connect the union to connector tube hose to the booster vacuum tube.
- (g) Connect the throttle with motor body assembly connector.

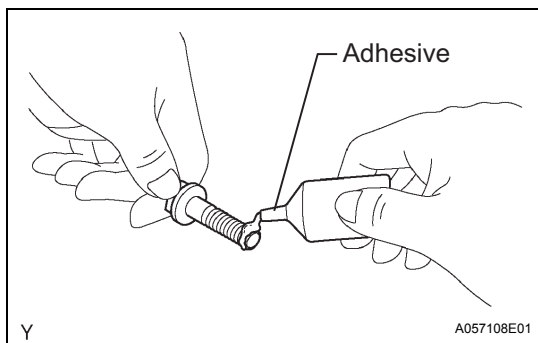
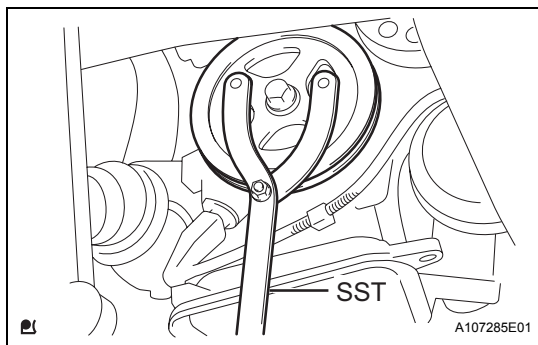
10. INSTALL OIL LEVEL GAUGE SUB-ASSEMBLY

11. INSTALL GENERATOR ASSEMBLY (See page [CH-17](#))

12. INSTALL IGNITION COIL NO.1 (See page [IG-9](#))

13. INSTALL DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transaxle)

- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)
- (b) Clean the 6 bolts and their holes.

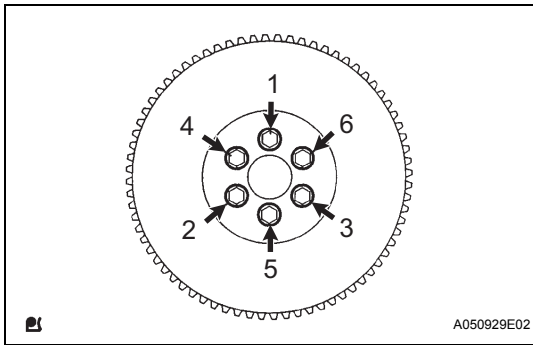


- (c) Apply adhesive to the end 2 or 3 threads of the bolts.

Adhesive:

Part No. 08833-0070, three bond 1324 or the equivalent.

- (d) Install the drive plate spacer RR, drive plate and ring gear sub-assembly and drive plate spacer FR.

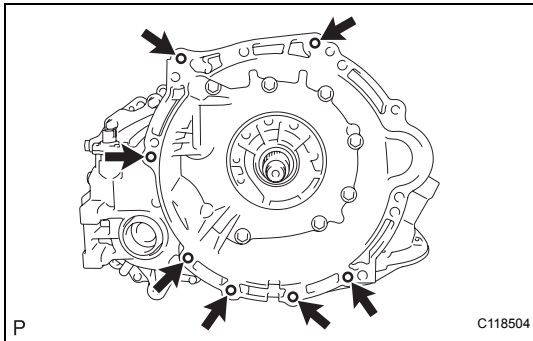


- (e) Install and uniformly tighten the 6 bolts in several steps, in the sequence shown in the illustration.

Torque: 88 N*m (900 kgf*cm, 65 ft.*lbf)

NOTICE:

Do not start the engine for at least 1 hour after performing the installation.



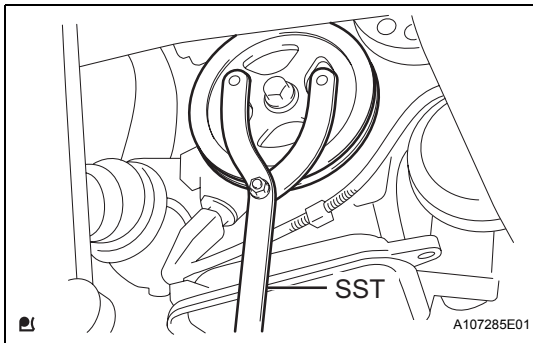
14. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY (for Automatic Transaxle)

- (a) Make sure that the knock pin is installed on the engine side.
(b) Install the automatic transaxle with torque converter with the 7 bolts.

Torque: 30 N*m (301 kgf*cm, 22 ft.*lbf)

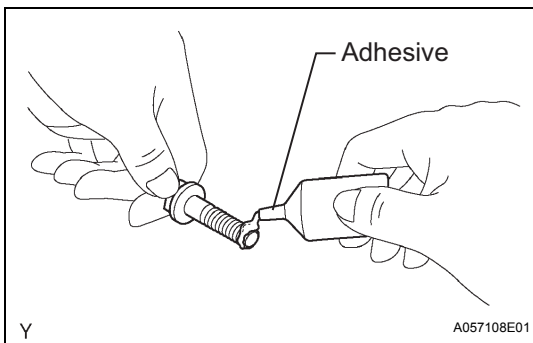
CAUTION:

Make sure that the torque converter rotates.



15. INSTALL FLYWHEEL SUB-ASSEMBLY (for Manual Transaxle)

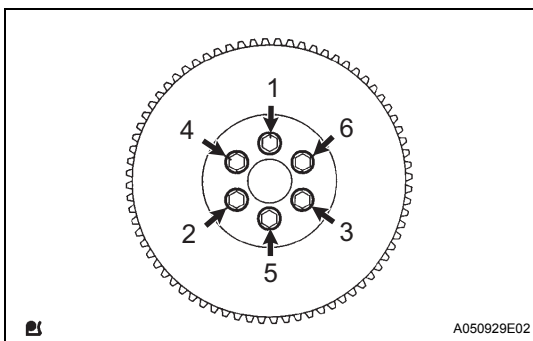
- (a) Hold the crankshaft with SST.
SST 09960-10010 (09962-01000, 09963-01000)
(b) Clean the 6 bolts and their holes.



- (c) Apply adhesive to the end 2 or 3 threads of new bolts.

Adhesive:

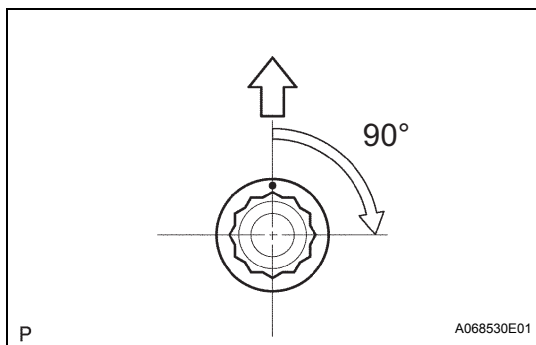
Part No. 08833-0070, three bond 1324 or the equivalent.



- (d) Install the flywheel with the 6 bolts in the order shown in the illustration.

Torque: 49 N*m (500 kgf*cm, 38 ft.*lbf)

- (e) Mark a paint mark on each bolt head on the engine upper side.

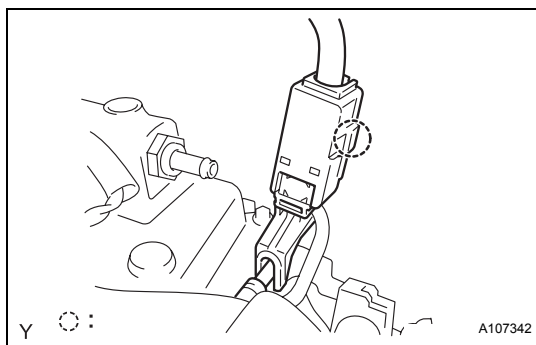


- (f) Tighten the bolts 90° in the sequence shown in the illustration.

NOTICE:

Do not start the engine for at least 1 hour after performing the installation.

16. **INSTALL CLUTCH DISC ASSEMBLY** (for Manual Transaxle) (See page [CL-16](#))
17. **INSTALL CLUTCH COVER ASSEMBLY** (for Manual Transaxle) (See page [CL-17](#))
18. **INSPECT AND ADJUST CLUTCH COVER ASSEMBLY** (for Manual Transaxle) (See page [CL-17](#))
19. **INSTALL MANUAL TRANSAXLE ASSEMBLY** (for Manual Transaxle) (See page [MX-30](#))
20. **INSTALL CONTROL CABLE BRACKET** (for Manual Transaxle) (See page [MX-32](#))
21. **INSTALL STARTER ASSEMBLY** (See page [ST-17](#))
22. **INSTALL FLYWHEEL HOUSING SIDE COVER** (See page [ST-17](#))
23. **CONNECT HEATER WATER INLET HOSE A**
 - (a) Connect heater water inlet hose A to the cylinder head.
24. **INSTALL WATER FILLER SUB-ASSEMBLY**
 - (a) Connect radiator hose No. 1 to the cylinder head.
 - (b) Install the water filler sub-assembly with the 2 nuts.
Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)
 - (c) Connect radiator hose No. 1 to the water filler.
25. **INSTALL FUEL TUBE SUB-ASSEMBLY**
 - (a) Connect the fuel tube connector and pipe and install fuel pipe clamp No. 2.
CAUTION:
Align the fuel tube connector with the pipe, then push the fuel tube connector in until the retainer makes a click sound. If the connection is tight, apply a small amount of engine oil to the the tip of the pipe. After connecting, pull the pipe and connector to make sure that they are securely connected.
26. **INSTALL VENTILATION HOSE NO. 2**
 - (a) Install ventilation hose No. 2 with the clip.
27. **INSTALL VENTILATION HOSE**
 - (a) Install the ventilation hose with the clip.
28. **INSTALL FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY**
 - (a) Install the engine moving control rod with the through bolt.
Torque: 120 N*m (1,224 kgf*cm, 89 ft.*lbf)
 - (b) Remove the 2 bolts and remove the 2 engine hangers.



- (c) Install the oxygen sensor wiring bracket with the bolt.

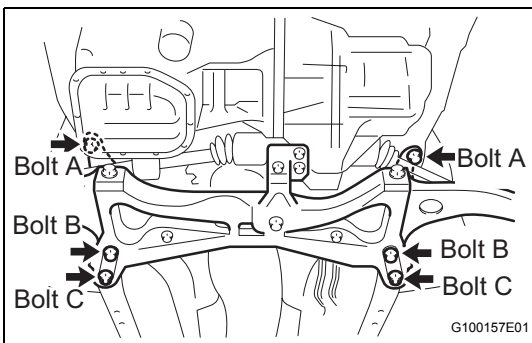
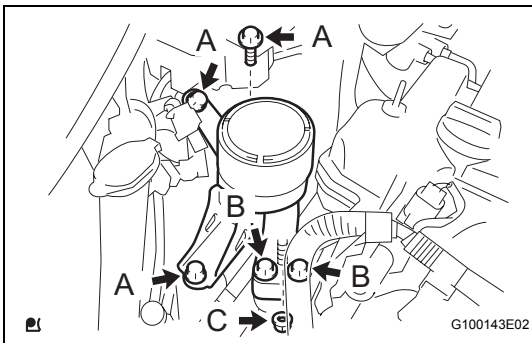
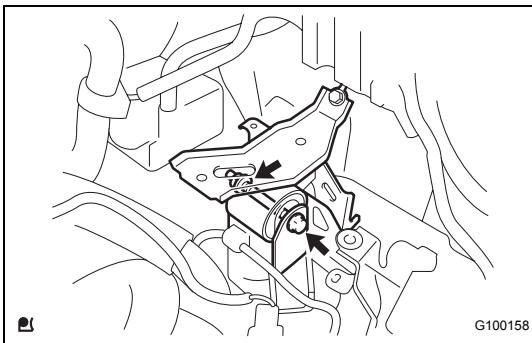
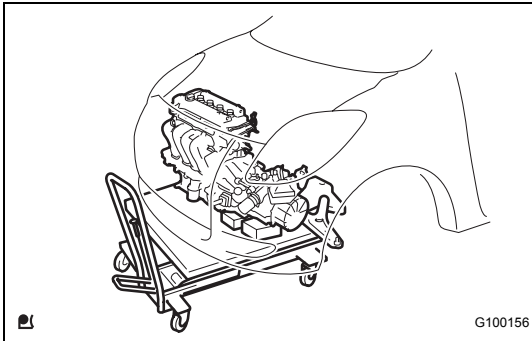
Torque: 60 N*m (612 kgf*cm, 44 ft.*lbf)

- (d) Install the radio setting condenser with the bolt.

Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)

29. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE (for Hatchback)

- (a) Set the engine assembly with transaxle and front suspension crossmember on the engine lifter.
- (b) Operate the engine lifter and lift the engine assembly with transaxle and front suspension crossmember to the position where the engine mounting insulators RH and LH can be installed.



- (c) Install the engine mounting insulator LH with the through bolt and nut.

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

- (d) Install the engine mounting insulator RH with the 5 bolts and nut.

Torque: 45 N*m (459 kgf*cm, 33 ft.*lbf) for Bolt A

52 N*m (530 kgf*cm, 38 ft.*lbf) for Bolt B

52 N*m (530 kgf*cm, 38 ft.*lbf) for Nut C

- (e) Operate the engine lifter and provisionally install the front suspension crossmember onto the vehicle with the 6 bolts.

- (f) Insert SST into the datum holes in the front suspension crossmembers RH and LH alternately and tighten bolts A, B and C on both sides in several sequences.

SST 09670-00010

Torque: 70 N*m (714 kgf*cm, 52 ft.*lbf) for Bolt A

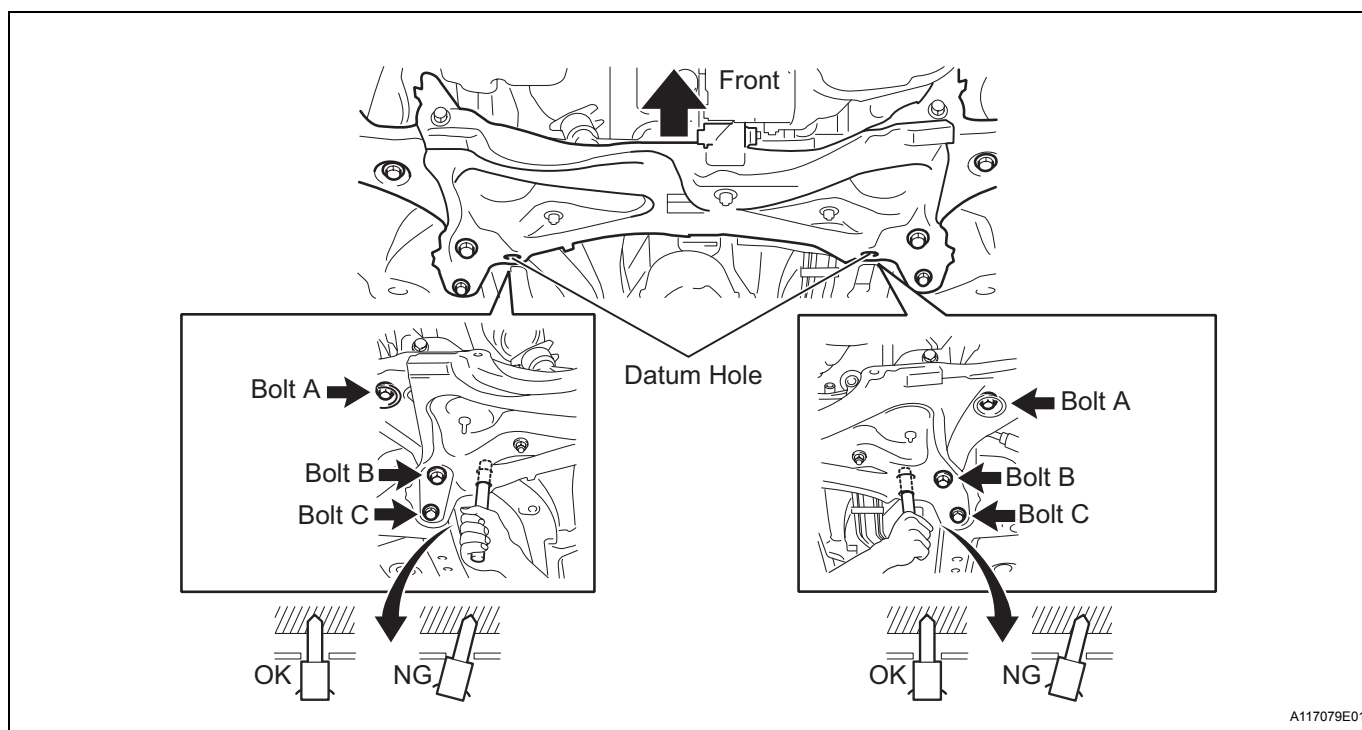
160 N*m (1,631 kgf*cm, 118 ft.*lbf) for Bolt B

95 N*m (969 kgf*cm, 70 ft.*lbf) for Bolt C

CAUTION:

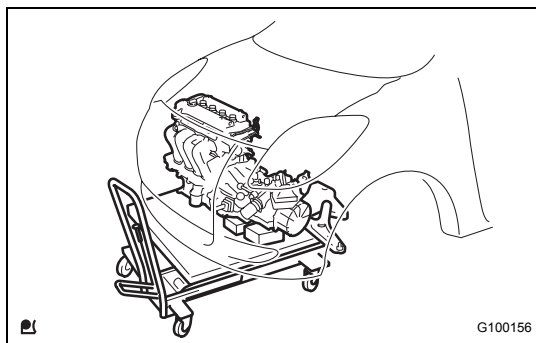
- Insert SST into the datum hole vertically.
- If impossible to insert SST vertically, loosen all the bolts and then insert SST again.

EM



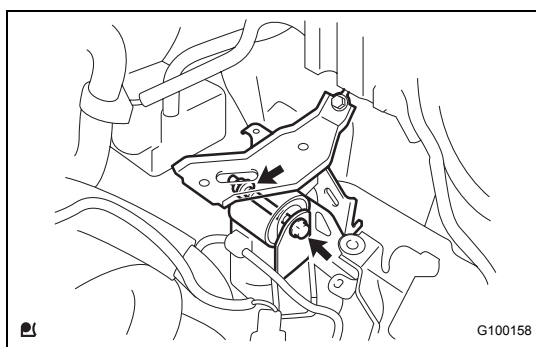
30. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE (for Sedan)

- Set the engine assembly with transaxle and front suspension crossmember on the engine lifter.
- Operate the engine lifter and lift the engine assembly with transaxle and front suspension crossmember to the position where the engine mounting insulators RH and LH can be installed.



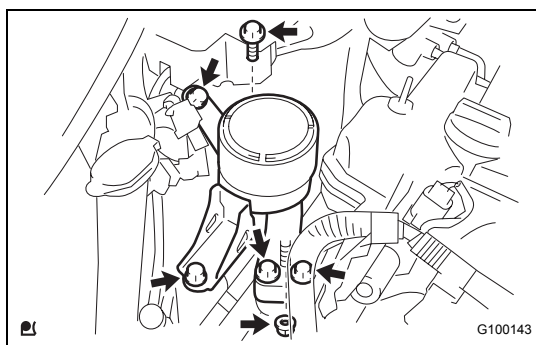
- Install the engine mounting insulator LH with the through bolt and nut.

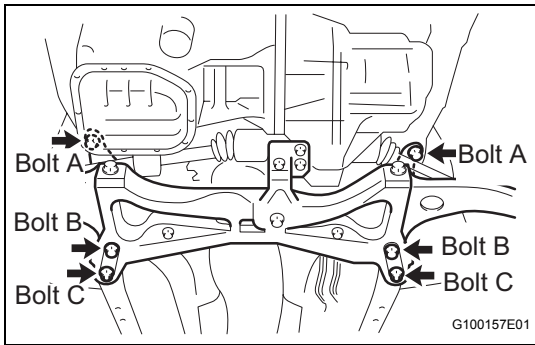
Torque: 52 N*m (530 kgf*cm, 38 ft.*lbf)



- Install the engine mounting insulator RH with the 5 bolts and nut.

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





- (e) Operate the engine lifter and provisionally install the engine assembly with transaxle and front suspension crossmember onto the vehicle with the 6 bolts.
- (f) Insert SST into the datum holes of the front suspension crossmembers RH and LH alternately and tighten bolts A, B and C on both sides in several sequences.

SST 09670-00010

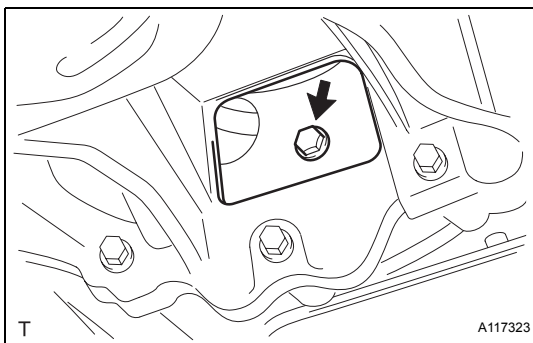
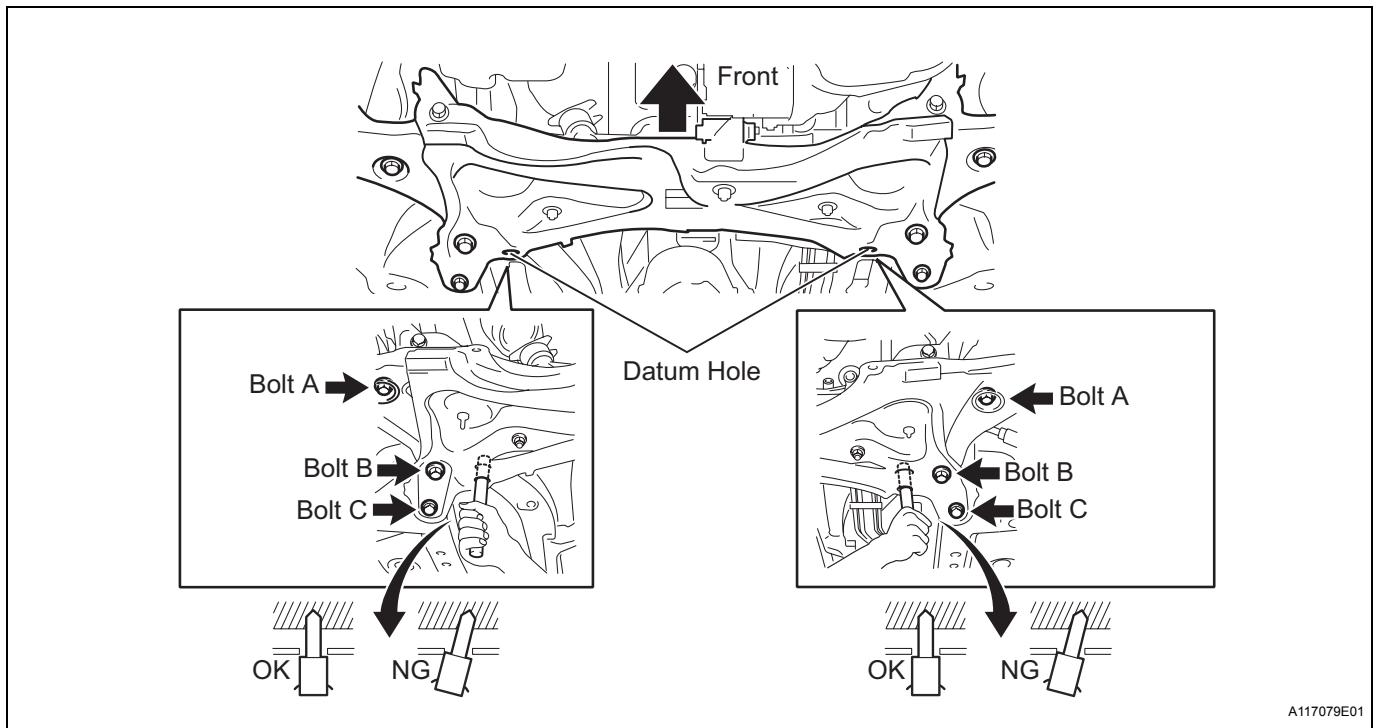
**Torque: 70 N*m (714 kgf*cm, 52 ft.*lbf) for Bolt A
160 N*m (1,631 kgf*cm, 118 ft.*lbf) for Bolt B**

95 N*m (969 kgf*cm, 70 ft.*lbf) for Bolt C

CAUTION:

- Insert SST into the datum hole vertically.
- If impossible to insert SST vertically, loosen all the bolts and then insert SST again.

EM



31. INSTALL DRIVE PLATE AND TORQUE CONVERTER CLUTCH SETTING BOLT (for Automatic Transaxle)

- (a) Tighten the 6 torque converter set bolts.

Torque: 27 N*m (275 kgf*cm, 20 ft.*lbf)

32. INSTALL FLYWHEEL HOUSING UNDER COVER

33. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH (See page [DS-13](#))

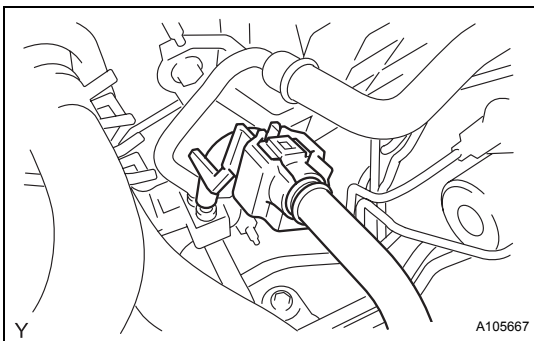
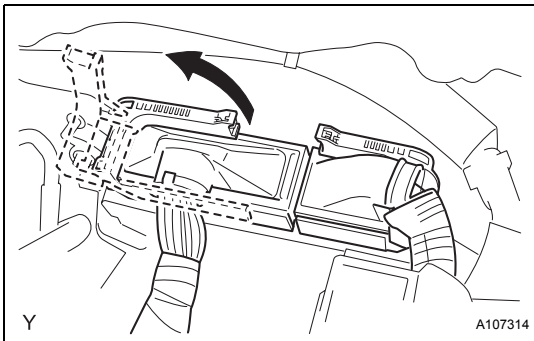
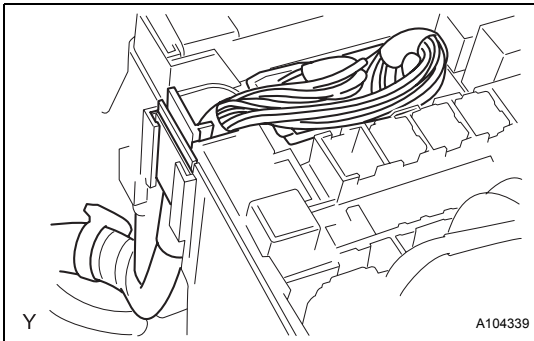
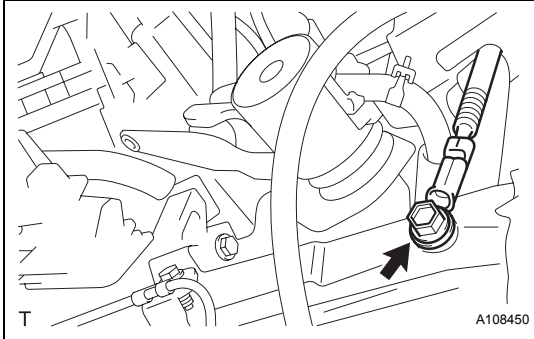
34. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (See page [DS-14](#))

35. INSTALL FRONT AXLE ASSEMBLY LH (See page [DS-14](#))

36. INSTALL FRONT AXLE ASSEMBLY RH (See page [DS-14](#))

37. INSTALL FRONT STABILIZER LINK ASSEMBLY LH
(See page [DS-14](#))
38. INSTALL FRONT STABILIZER LINK ASSEMBLY RH
(See page [MX-31](#))
39. INSTALL FRONT SUSPENSION ARM SUB-
ASSEMBLY LOWER NO. 1 LH (See page [DS-14](#))
40. INSTALL FRONT SUSPENSION ARM SUB-
ASSEMBLY LOWER NO. 1 RH (See page [MX-31](#))
41. INSTALL TIE ROD END SUB-ASSEMBLY LH (See
page [DS-15](#))
42. INSTALL TIE ROD END SUB-ASSEMBLY RH (See
page [MX-31](#))
43. INSTALL SPEED SENSOR FRONT LH (w/ ABS) (See
page [DS-15](#))
44. INSTALL SPEED SENSOR FRONT RH (w/ ABS) (See
page [MX-31](#))
45. INSTALL FRONT AXLE HUB LH NUT (See page [DS-15](#))
46. INSTALL FRONT AXLE HUB RH NUT (See page [MX-31](#))
47. INSTALL EXHAUST PIPE ASSEMBLY FRONT (See
page [EX-8](#))
48. INSTALL HEATED OXYGEN SENSOR (See page [EC-23](#))
49. INSTALL CONSOLE BOX ASSEMBLY REAR (See
page [PB-10](#))
50. INSTALL CONSOLE BOX REAR COVER (for
Hatchback) (See page [PB-11](#))
51. INSTALL SHIFTING HOLE COVER SUB-ASSEMBLY
(for Manual Transaxle) (See page [PB-12](#))
52. INSTALL CONSOLE BOX CARPET (for Sedan) (See
page [PB-11](#))
53. INSTALL CONSOLE UPPER REAR PANEL SUB-
ASSEMBLY (for Sedan) (See page [IP-89](#))
54. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY
(for Sedan) (See page [IP-89](#))
55. INSTALL INSTRUMENT PAD LOWER LH (for Sedan)
(See page [IP-55](#))
56. INSTALL INSTRUMENT PANEL FINISH PANEL END
LH (for Sedan) (See page [ME-141](#))
57. INSTALL INSTRUMENT PANEL FINISH PANEL
LOWER CENTER (for Sedan) (See page [ME-142](#))
58. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for
Manual Transaxle)

59. INSTALL STEERING COLUMN HOLE COVER SUB-ASSEMBLY NO. 1 (See page [PS-79](#))
60. INSTALL STEERING SLIDING YOKE SUB-ASSEMBLY (See page [PS-79](#))
61. INSTALL COLUMN HOLE COVER SILENCER SHEET (See page [PS-79](#))
62. CONNECT ENGINE WIRE



- (a) Install the earth wire of the engine room wire harness with the bolt.

- (b) Connect the 2 engine wire harness connectors and wire harness clamp to the engine room junction block.

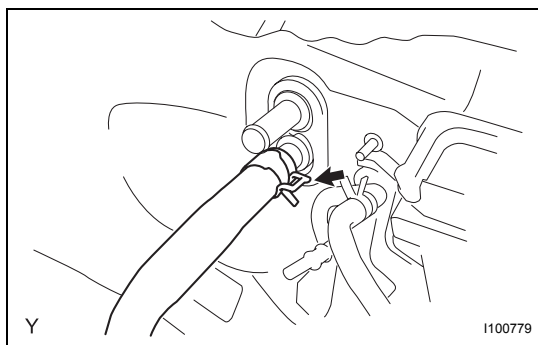
- (c) Connect the engine wire harness connector to the ECM.

63. INSTALL CLUTCH RELEASE CYLINDER ASSEMBLY (for Manual Transaxle) (See page [MX-32](#))
64. INSTALL WITH PULLEY COMPRESSOR ASSEMBLY (w/ Air Conditioning System) (See page [AC-209](#))
65. INSTALL FAN AND GENERATOR V BELT (See page [EM-7](#))
66. ADJUST FAN AND GENERATOR V BELT (See page [EM-7](#))
67. CONNECT FUEL TUBE SUB-ASSEMBLY

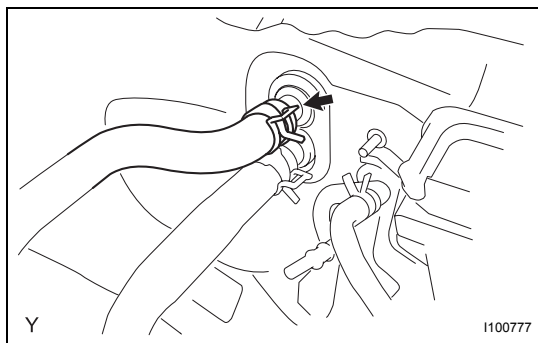
- (a) Connect the fuel tube connector and fuel pipe, and install fuel pipe clamp No. 1.

CAUTION:

Align the fuel tube connector with the pipe, then push the fuel tube connector in until the retainer makes a click sound. If the connection is tight, apply a small amount of engine oil to the tip of the pipe. After connecting, pull the pipe and connector to make sure that they are securely connected.

**68. CONNECT HEATER WATER INLET HOSE A**

- (a) Connect heater water inlet hose A to the heater unit.

**69. CONNECT HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)**

- (a) Connect heater water outlet hose A to the heater unit.

70. CONNECT UNION TO CHECK VALVE HOSE

- (a) Connect the union to check valve hose to the booster vacuum tube.

71. INSTALL TRANSMISSION CONTROL CABLE

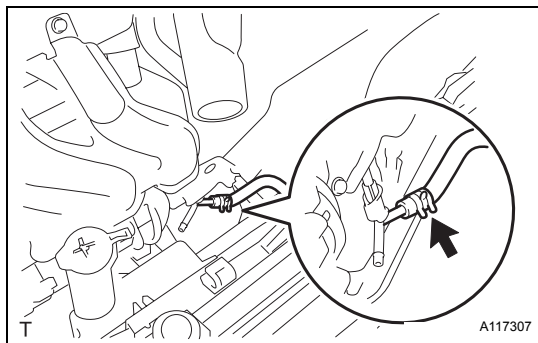
ASSEMBLY (for Automatic Transaxle) (See page [AX-109](#))

72. INSTALL TRANSMISSION CONTROL CABLE

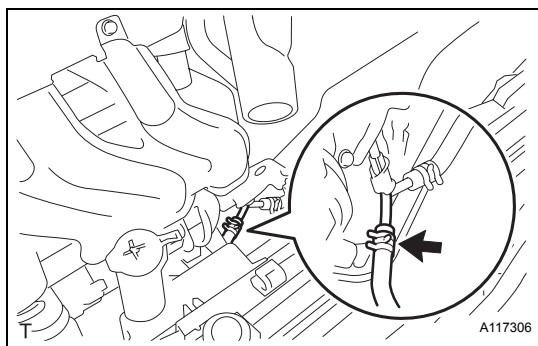
ASSEMBLY (for Manual Transaxle) (See page [MX-32](#))

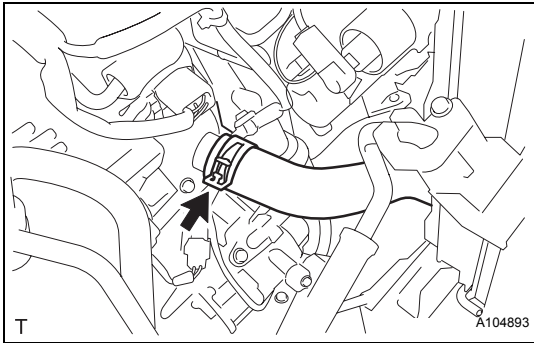
73. INSTALL CYLINDER HEAD COVER NO. 2 (See page [IG-10](#))**74. CONNECT OIL COOLER INLET HOSE (for Automatic Transaxle)**

- (a) Connect the oil cooler inlet hose with the clip.

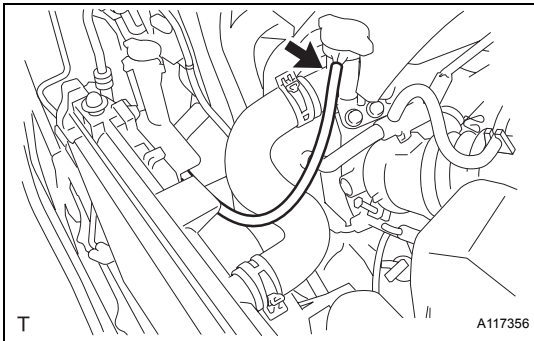
**75. CONNECT OIL COOLER OUTLET HOSE (for Automatic Transaxle)**

- (a) Connect the oil cooler outlet hose with the clip.

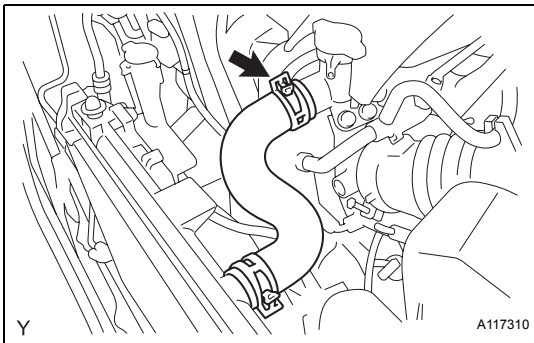


**76. CONNECT RADIATOR HOSE NO. 2**

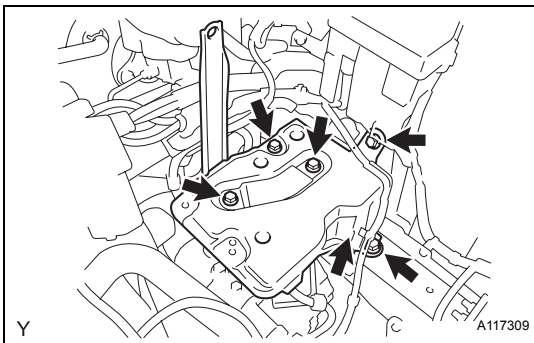
- (a) Connect radiator hose No. 2 to the water inlet.

**77. CONNECT RADIATOR RESERVOIR TANK HOSE**

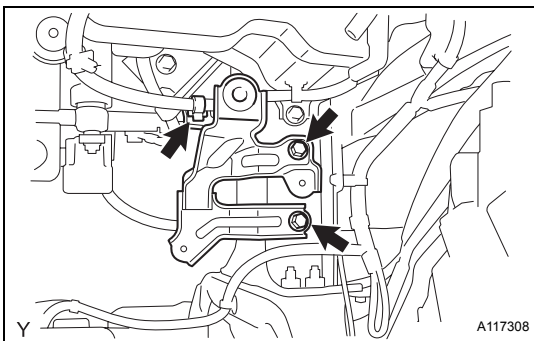
- (a) Connect the radiator reservoir tank hose to the water filler.

**78. CONNECT RADIATOR HOSE NO. 3**

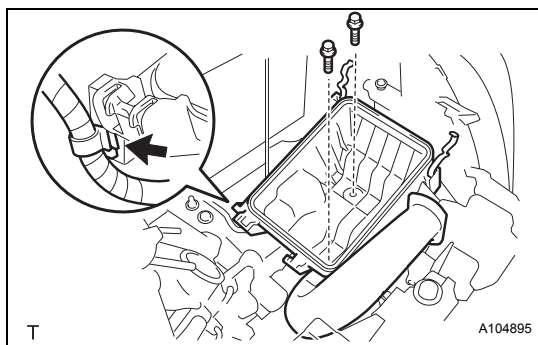
- (a) Connect radiator hose No. 3 to the water filler.

**79. INSTALL BATTERY CARRIER**

- (a) Install the battery carrier with the 5 bolts.
Torque: 17 N*m (173 kgf*cm, 13 ft.*lbf)
 (b) Install the clamp.

**80. INSTALL AIR CLEANER BRACKET**

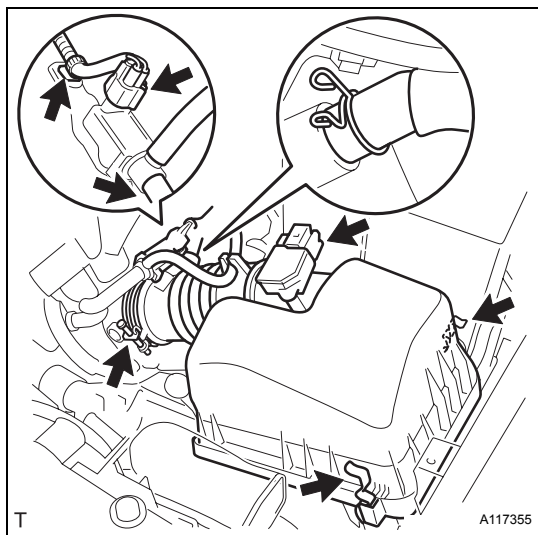
- (a) Install the air cleaner bracket with the 2 bolts.
Torque: 19 N*m (194 kgf*cm, 14 ft.*lbf)
 (b) Connect the wire harness clamp to the air cleaner bracket.

**81. INSTALL AIR CLEANER ASSEMBLY**

- (a) Install the air cleaner case with air cleaner inlet No. 1 with the 2 bolts.

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

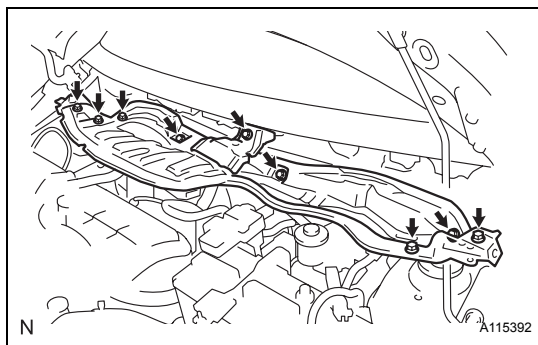
- (b) Connect the wire harness to the air cleaner case.
(c) Install the air cleaner element.



- (d) Install and lock the air cleaner cap and the air cleaner hose and then tighten the air cleaner hose clamp.

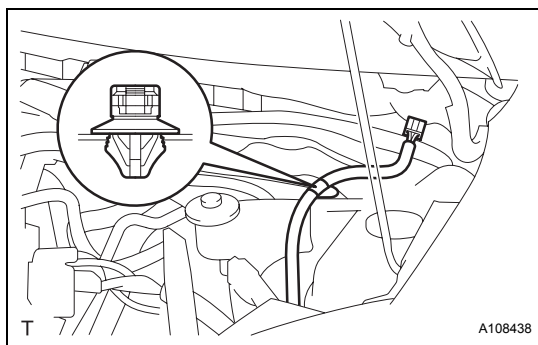
Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

- (e) Connect the ventilation hose to the air cleaner hose.
(f) Connect the vacuum switching valve connector and the wire harness clamp.
(g) Connect the fuel vapor feed hose and fuel vapor feed hose No. 1 to the vacuum switching valve assembly.
(h) Connect the intake air flow meter connector and the wire harness clamp.

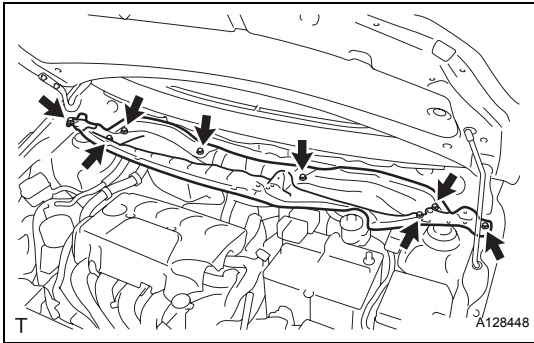
**82. INSTALL COWL TOP PANEL OUTER (for Hatchback)**

- (a) Install the cowl top panel with the 9 bolts.

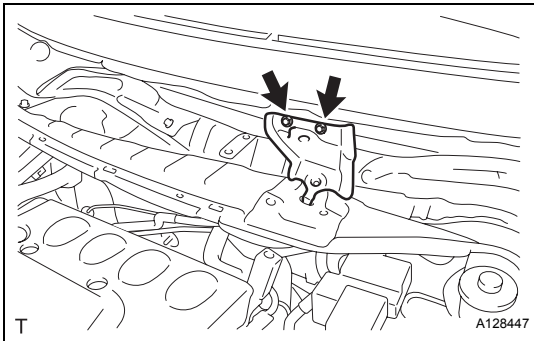
Torque: 6.5 N*m (66 kgf*cm, 58 ft.*lbf)



- (b) Connect the wire harness clamp.

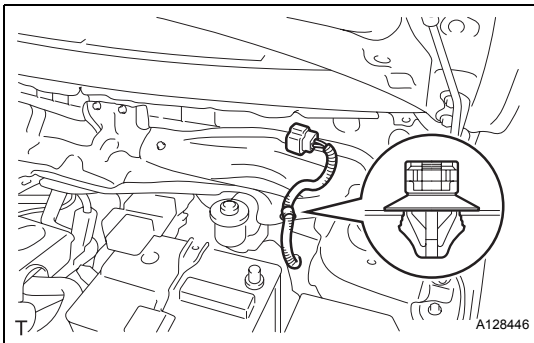
**83. INSTALL COWL TOP PANEL OUTER (for Sedan)**

- (a) Install the cowl top panel outer with the 8 bolts.
Torque: 6.5 N*m (66 kgf*cm, 58 in.*lbf)

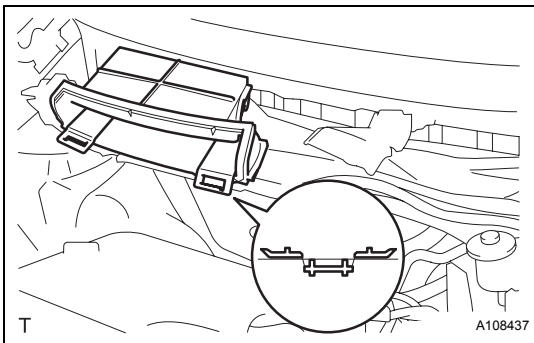


- (b) Install the cowl top to cowl inner brace with the 2 bolts.

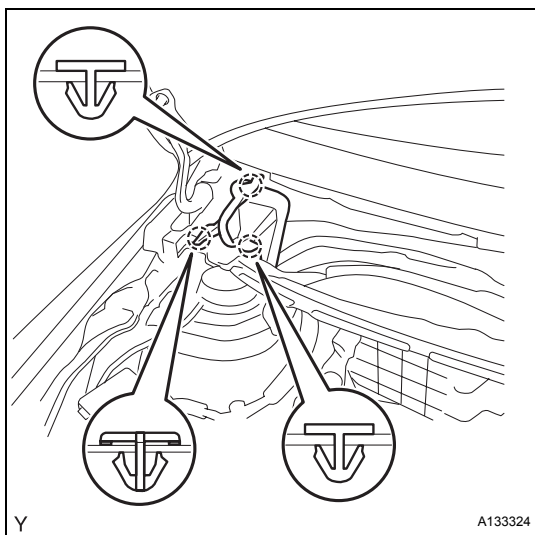
Torque: 6.5 N*m (66 kgf*cm, 58 in.*lbf)



- (c) Connect the wire harness clamp.

**84. INSTALL COWL TO REGISTER DUCT SUB-ASSEMBLY NO. 2 (for Hatchback)**

- (a) Engage the claw and install cowl to register duct No. 2.



85. **INSTALL FRONT AIR SHUTTER SEAL RH (for Sedan)**
(a) Engage the 3 claws to install the front air shutter seal RH.
86. **INSTALL FRONT WIPER MOTOR AND LINK** (See page [WW-21](#))
87. **INSTALL COWL TOP VENTILATOR LOUVER LH (for Hatchback)** (See page [WW-21](#))
88. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for Hatchback)** (See page [WW-21](#))
89. **INSTALL HOOD TO COWL TOP SEAL (for Hatchback)** (See page [WW-22](#))
90. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for Sedan)** (See page [WW-12](#))
91. **INSTALL COWL SIDE VENTILATOR SUB-ASSEMBLY LH (for Sedan)** (See page [WW-13](#))
92. **INSTALL COWL SIDE VENTILATOR SUB-ASSEMBLY RH (for Sedan)** (See page [WW-13](#))
93. **INSTALL FRONT WIPER ARM LH** (See page [WW-22](#))
94. **INSTALL FRONT WIPER ARM RH** (See page [WW-23](#))
95. **INSTALL FRONT WIPER ARM HEAD CAP** (See page [WW-23](#))
96. **INSTALL BATTERY TRAY**
97. **INSTALL BATTERY**
(a) Install the battery onto the vehicle with the battery clamp.
Torque: 3.5 N*m (36 kgf*cm, 31 in.*lbf)
(b) Connect the cable to the battery terminal.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)
98. **ADD ENGINE COOLANT** (See page [CO-8](#))
99. **ADD AUTOMATIC TRANSAXLE FLUID (for Automatic Transaxle)** (See page [AX-169](#))
100. **INSPECT AUTOMATIC TRANSAXLE FLUID (for Automatic Transaxle)** (See page [AX-93](#))
101. **ADD MANUAL TRANSAXLE OIL (for Manual Transaxle)**
102. **INSPECT MANUAL TRANSAXLE OIL (for Manual Transaxle)** (See page [MX-2](#))
103. **INSPECT FAN AND GENERATOR V BELT** (See page [EM-8](#))
104. **CHECK FOR FUEL LEAKAGE** (See page [FU-7](#))
105. **CHECK FOR ENGINE OIL LEAKAGE**
106. **CHECK FOR EXHAUST GAS LEAKAGE**
107. **CHECK FOR ENGINE COOLANT LEAKAGE** (See page [CO-1](#))

108. INSTALL ENGINE UNDER COVER RH

109. INSTALL ENGINE UNDER COVER LH

110. INSTALL FRONT WHEELS

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

111. INSPECT IGNITION TIMING (See page [EM-1](#))

112. INSPECT ENGINE IDLING SPEED (See page [EM-2](#))

113. INSPECT CO/HC (See page [EM-4](#))

114. INSPECT FRONT WHEEL ALIGNMENT

115. INSPECT ABS SENSOR SIGNAL (w/ ABS)