



Engine Mechanical

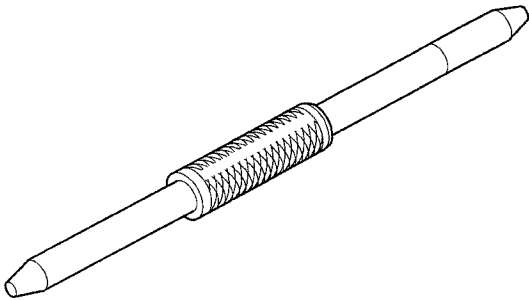
Engine Assembly

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Engine Assembly

Special Tools

Ref.No.	Tool Number	Description	Qty
①	070AG-SJAA10S	Subframe Alignment Pin	1



①



Engine Removal

Special Tools Required

- 2008 V6 Attachment Arm SIL02C000033*
- Engine Support Hanger, A and Reds AAR-T1256*
- Engine Hanger Balance Bar VSB02C000019*
- Subframe Adapter VSB02C000016*

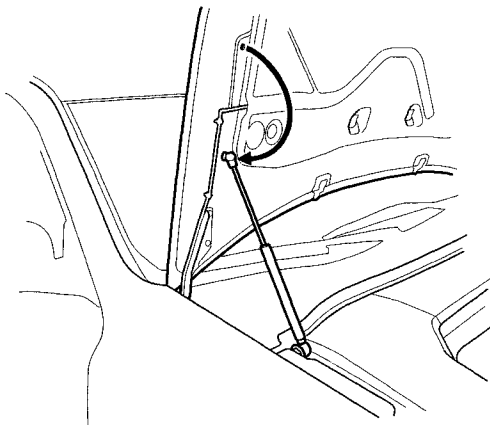
* Available through the Acura Tool and Equipment program, 888-424-6857.

NOTE:

- Use fender covers to avoid damaging painted surfaces.
- To avoid damaging the wiring and terminals, unplug the wiring connectors carefully while holding the connector portion.
- Mark all wiring and hoses to avoid misconnection. Also, be sure that they do not contact other wiring or hoses, or interfere with other parts.

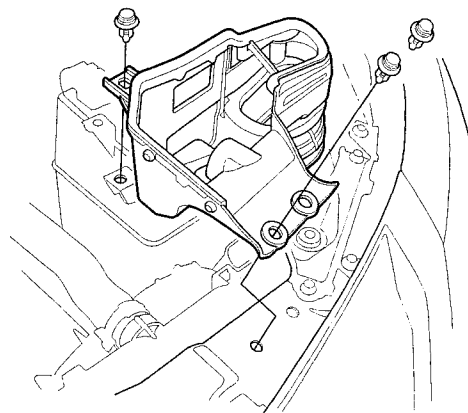
1. Disconnect the support struts from both sides of the pivot ball (bolted to the hood). Secure the hood in a vertical position. Install the right side pivot ball into the lower threaded hole.

NOTE: Do not attempt to close the hood with the support strut in the vertical position, as it will damage the support strut and hood.

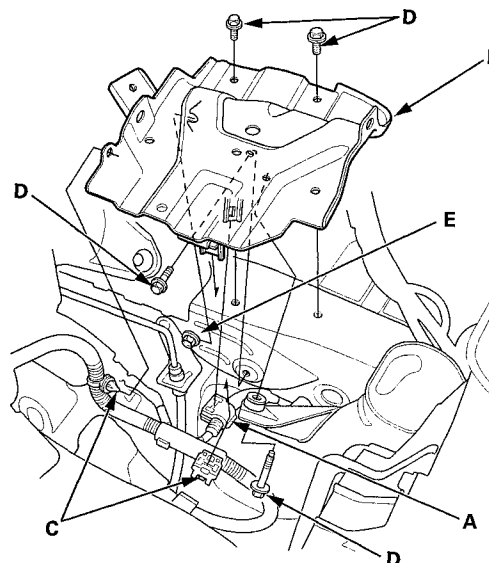


2. Relieve the fuel pressure (see page 11-366).
3. Remove the engine compartment covers (see page 20-186).

4. Remove the air intake duct splash separator.



5. Do the battery removal procedure (see page 22-87).
6. Remove the air cleaner assembly (see page 11-421).
7. Remove the harness clamp (A) from the battery base (B).



8. M/T model: Remove the harness clamps (C) from the battery base.
9. Remove the bolts (D), and loosen the bolt (E), then remove the battery base.

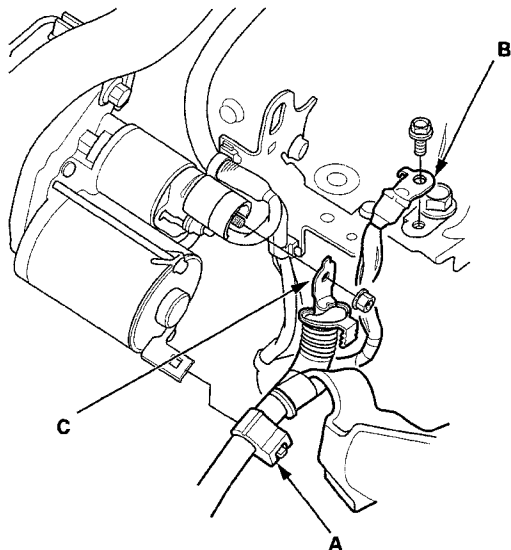
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Engine Assembly

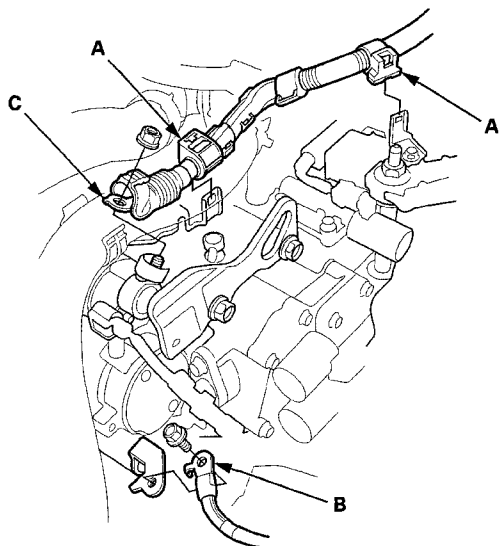
Engine Removal (cont'd)

10. Remove the harness clamps (A) and the ground cable (B), then disconnect the positive starter cable (C).

M/T model

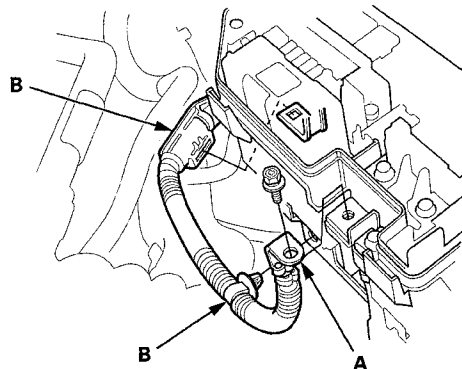


A/T model



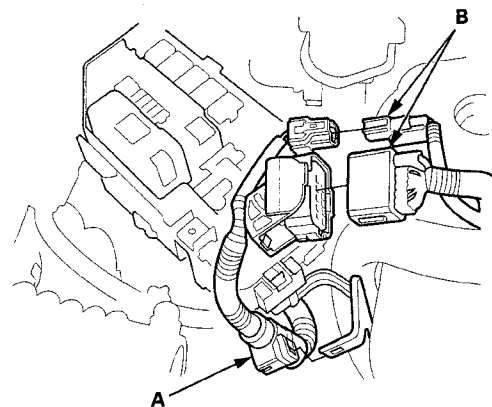
11. Remove the strut brace (see page 20-210).

12. Disconnect the battery cable (A) from the under-hood fuse/relay box.



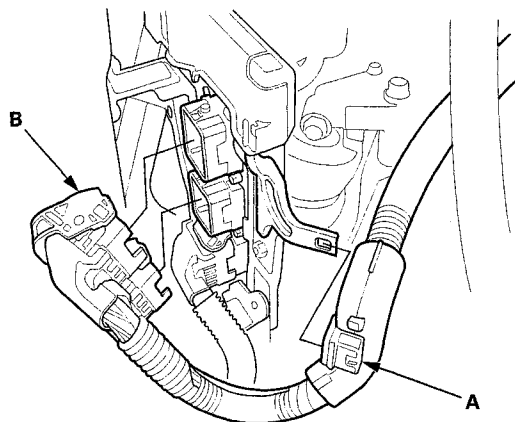
13. Remove the harness clamps (B).

14. Remove the harness clamp (A), then disconnect the harness connectors (B).

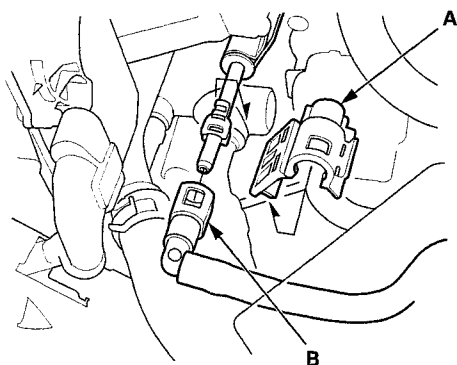




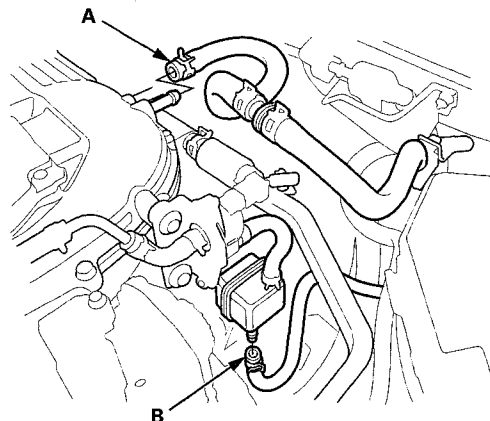
15. Remove the harness clamp (A), then disconnect the engine control module (ECM)/powertrain control module (PCM) connectors (B).



16. Remove the quick-connect fitting cover (A), then disconnect the fuel feed hose (B) (see page 11-379).



17. Disconnect the brake booster vacuum hose (A) and the evaporative emission (EVAP) canister hose (B).



18. M/T model: Remove the three bolts securing the shift cable holder, then remove the shift cable and the select cable (see step 20 on page 13-21). Do not bend the cables excessively.

19. M/T model: Remove the clutch slave cylinder and the clutch line bracket mounting nut (see step 21 on page 13-21). Do not operate the clutch pedal once the slave cylinder has been removed.

20. A/T model: Remove the shift cable (see page 14-250). Do not bend the shift cable excessively.

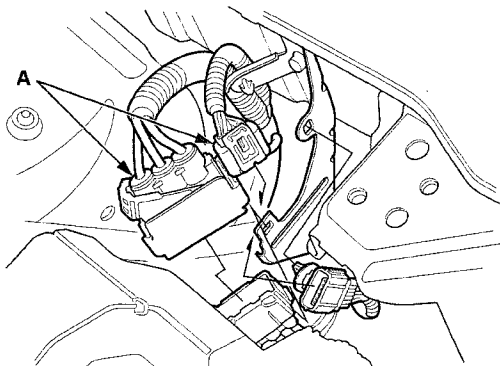
21. Remove the drive belt (see page 4-44).

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Engine Assembly

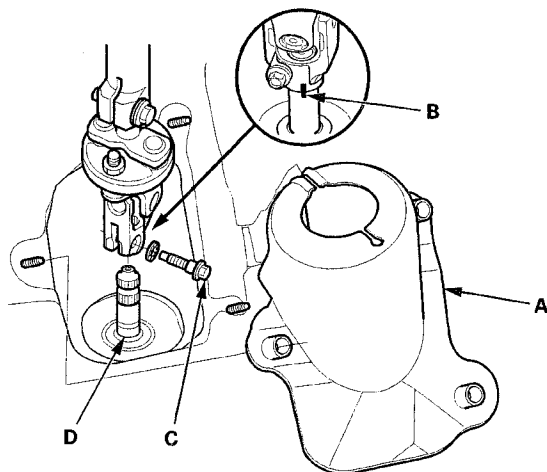
Engine Removal (cont'd)

22. Disconnect the electrical power steering (EPS) connectors (A).



23. Remove the steering wheel (see page 17-6).

24. Remove the steering joint cover (A).



25. Make a reference mark (B) across the steering joint and the steering gearbox pinion shaft. Remove the steering joint bolt (C), and disconnect the steering joint from the steering gearbox pinion shaft (D).

26. Wait until the engine is cool, then carefully remove the radiator cap.

27. Raise the vehicle on the lift.

28. Remove the front wheels.

29. Remove the splash shield (see page 20-205).

30. Loosen the drain plug in the radiator, and drain the engine coolant (see page 10-6).

31. Drain the transmission fluid:

- Manual transmission (see page 13-14)
- Automatic transmission (see page 14-203)

32. Drain the engine oil (see page 8-12).

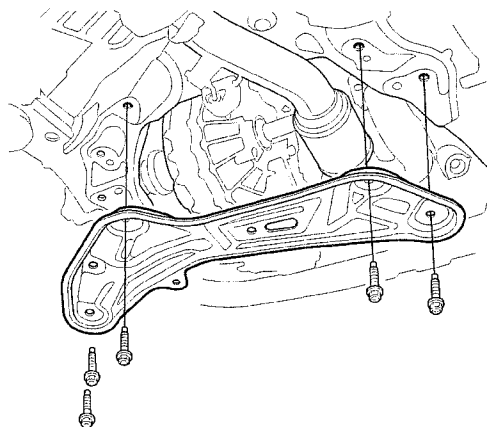
33. Remove the damper fork (see step 4 on page 18-31).

34. Separate the tie-rod end ball joints from the knuckles (see step 12 on page 17-64).

35. Separate the knuckles from the suspension lower arms (see step 7 on page 18-21).

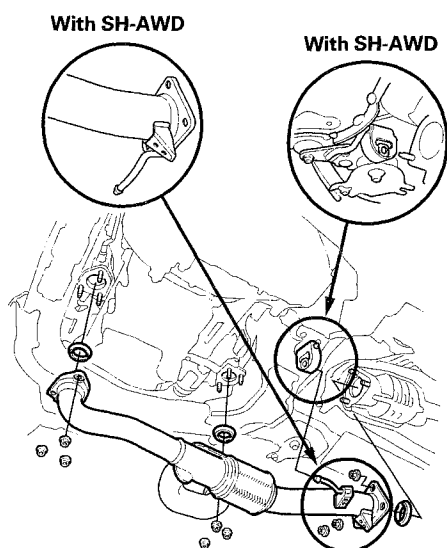
36. Remove the driveshafts (see page 16-4). Coat all precision-finished surfaces with new engine oil. Tie plastic bags over the driveshaft ends.

37. Remove the front subframe stiffener.





38. Remove exhaust pipe A.



39. With SH-AWD: Remove the propeller shaft (see page 16-50).

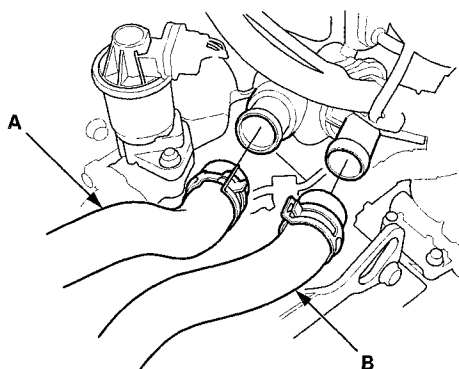
40. With SH-AWD: Remove the transfer assembly.

- Manual transmission (see page 13-102)
- Automatic transmission (see page 14-207)

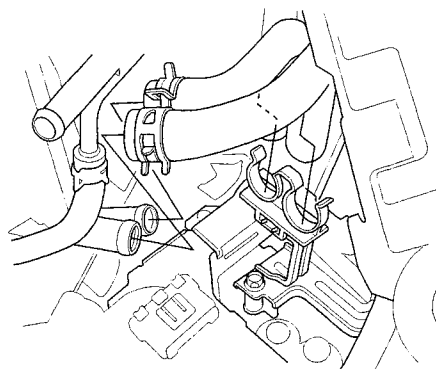
41. A/T model: Disconnect the ATF cooler hoses from the transmission, then plug the ATF cooler hoses and the lines (see step 32 on page 14-215).

42. Lower the vehicle on the lift.

43. Disconnect the upper radiator hose (A) and the lower radiator hose (B).

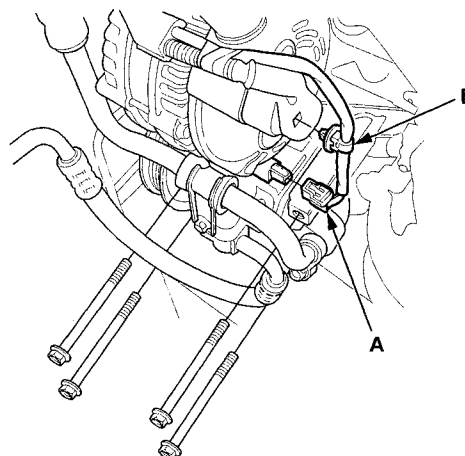


44. Disconnect the heater hoses.



45. Remove the radiator (see page 10-13).

46. Disconnect the A/C compressor clutch connector (A), and remove the harness clamp (B).



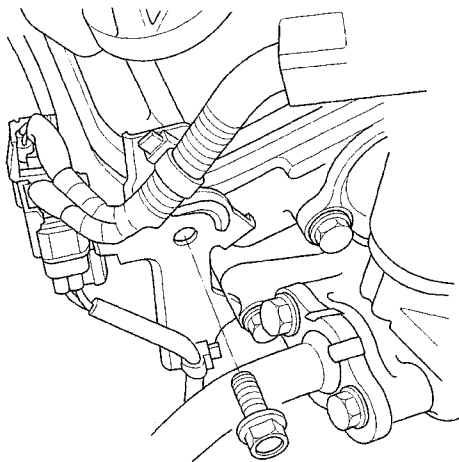
47. Remove the A/C compressor without disconnecting the A/C hoses. Do not bend the A/C hoses excessively.

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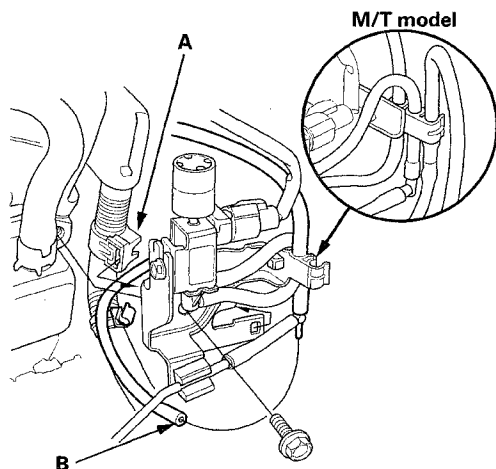
Engine Assembly

Engine Removal (cont'd)

48. Remove the connector bracket from the front cylinder head; use the bracket bolt hole to attach the engine hanger balance bar front arm.

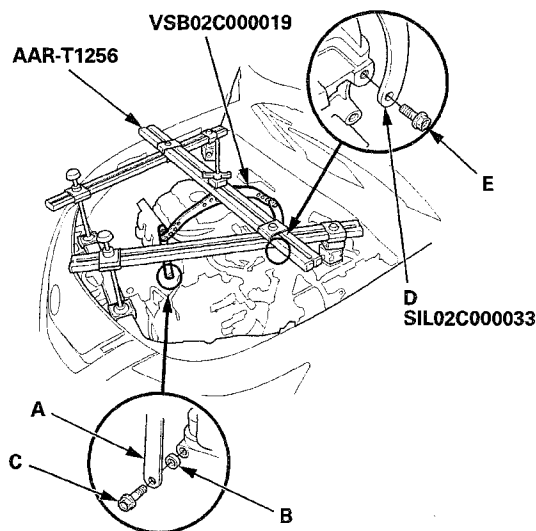


49. Remove the harness clamp (A), then remove the engine mount control solenoid valve bracket from the rear cylinder head; use the bracket bolt hole to attach the 2008 V6 attachment arm (SIL02C000033).



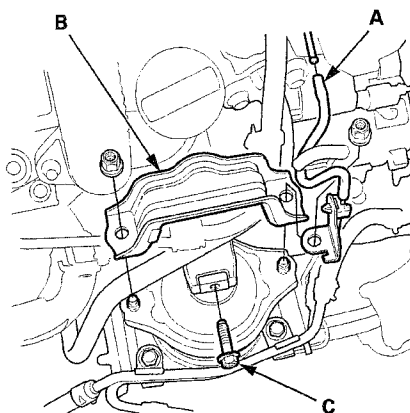
50. A/T model: Disconnect the vacuum hose (B).

51. Lift and support the engine with the engine support hanger (AAR-T1256) and the engine hanger balance bar (VSB02C000019). Attach the front arm (A) to the front cylinder head with a spacer (B) and a 10 x 1.25 mm bolt (C). Remove the rear arm from the engine hanger balance bar, and install the 2008 V6 attachment arm (SIL02C000033), then attach the 2008 V6 attachment arm (D) to the rear cylinder head with a 8 x 1.25 mm bolt (E).



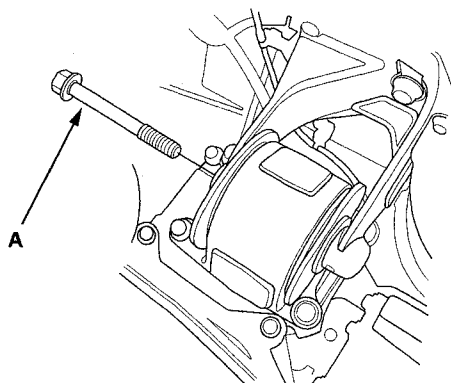
52. M/T model: Remove the front engine mount (see page 5-25).

53. A/T model: Disconnect the vacuum hose (A) and remove the front engine mount stop (B), then remove the front engine mount bolt (C).

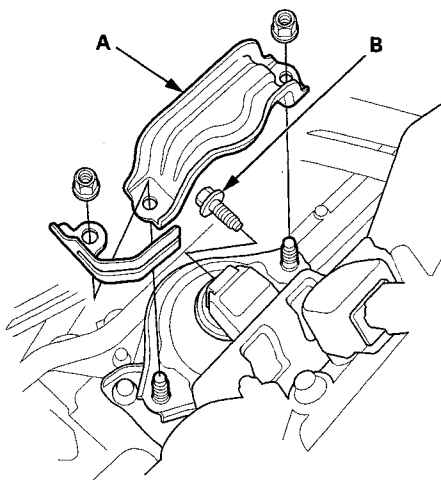




54. M/T model: Remove the rear engine mount bolt (A).

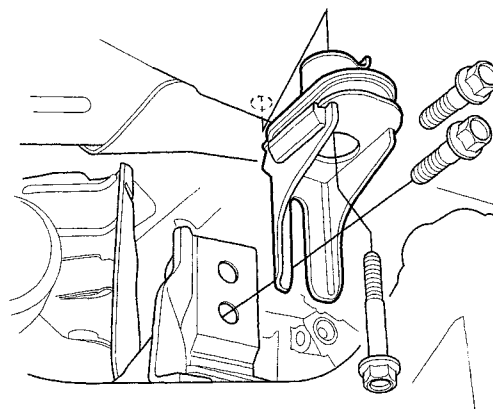


55. A/T model: Remove the rear engine mount stop (A), then remove the rear engine mount bolt (B).

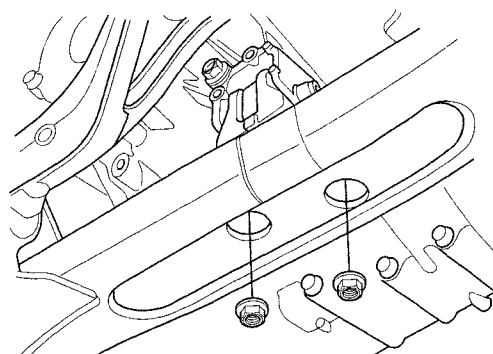


56. Raise the vehicle on the lift.

57. Remove the subframe middle mount.



58. Remove the nuts securing the lower transmission mount.

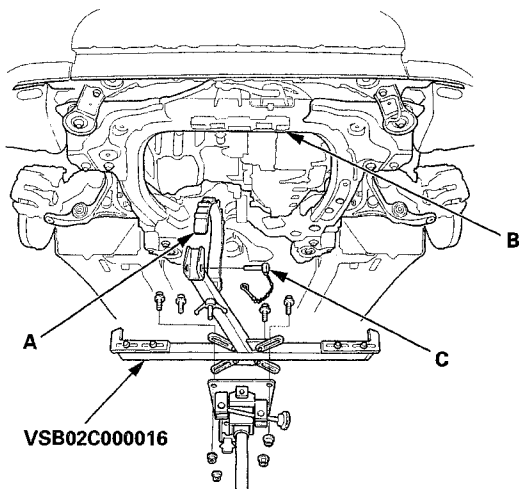


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Engine Assembly

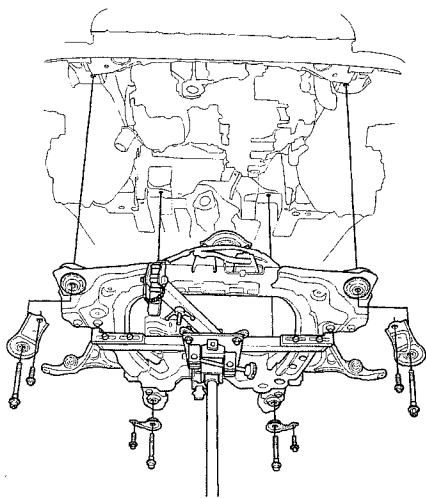
Engine Removal (cont'd)

59. Attach the front subframe adapter (VSB02C000016) to the subframe by looping the belt (A) over the front of the subframe (B), then secure the belt with its stop (C).



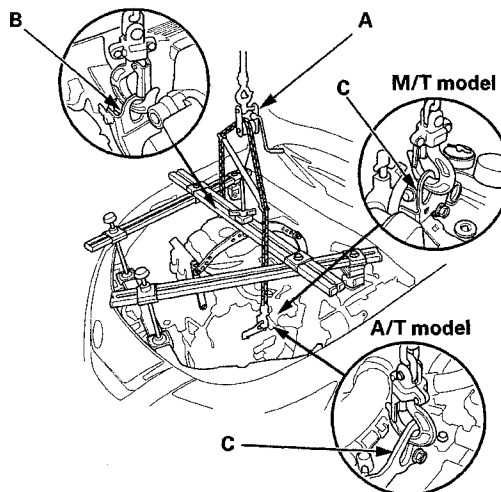
60. Raise the jack and line up the slots in the front subframe adapter arms with the bolt holes on the jack base, then securely attach them with four bolts.

61. Remove the front subframe.

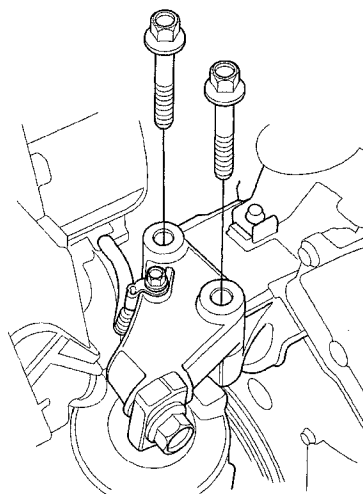


62. Lower the vehicle on the lift.

63. Attach a chain hoist (A) to the engine hook (B) and the transmission hook (C), then lift the engine/transmission until it is securely supported by the chain hoist and remove the engine support hanger and the engine hanger balance bar.



64. Remove the mounting bolts from the upper half of the side engine mount bracket.

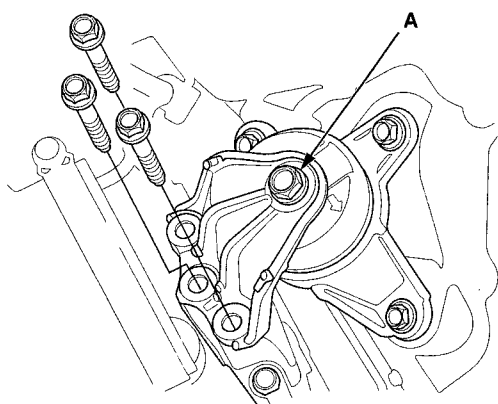




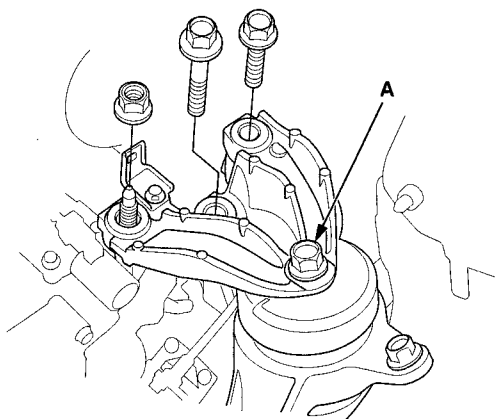
65. Remove the upper transmission mount bracket mounting bolts and nut.

NOTE: Do not remove the bolt (A) from the upper transmission mount. If the bolt is removed, the upper transmission mount must be replaced as an assembly.

M/T model



A/T model



66. Check that the engine/transmission is completely free of the vacuum hoses, the fuel hoses, the coolant hoses, and the electrical wiring.
67. Slowly lower the engine/transmission about 150 mm (6 in). Check once again that all the hoses and the electrical wiring are disconnected and free from the engine/transmission, then lower it all the way and support it.
68. Disconnect the chain hoist from the engine/transmission.
69. Raise the vehicle, and remove the engine/transmission from under the vehicle.

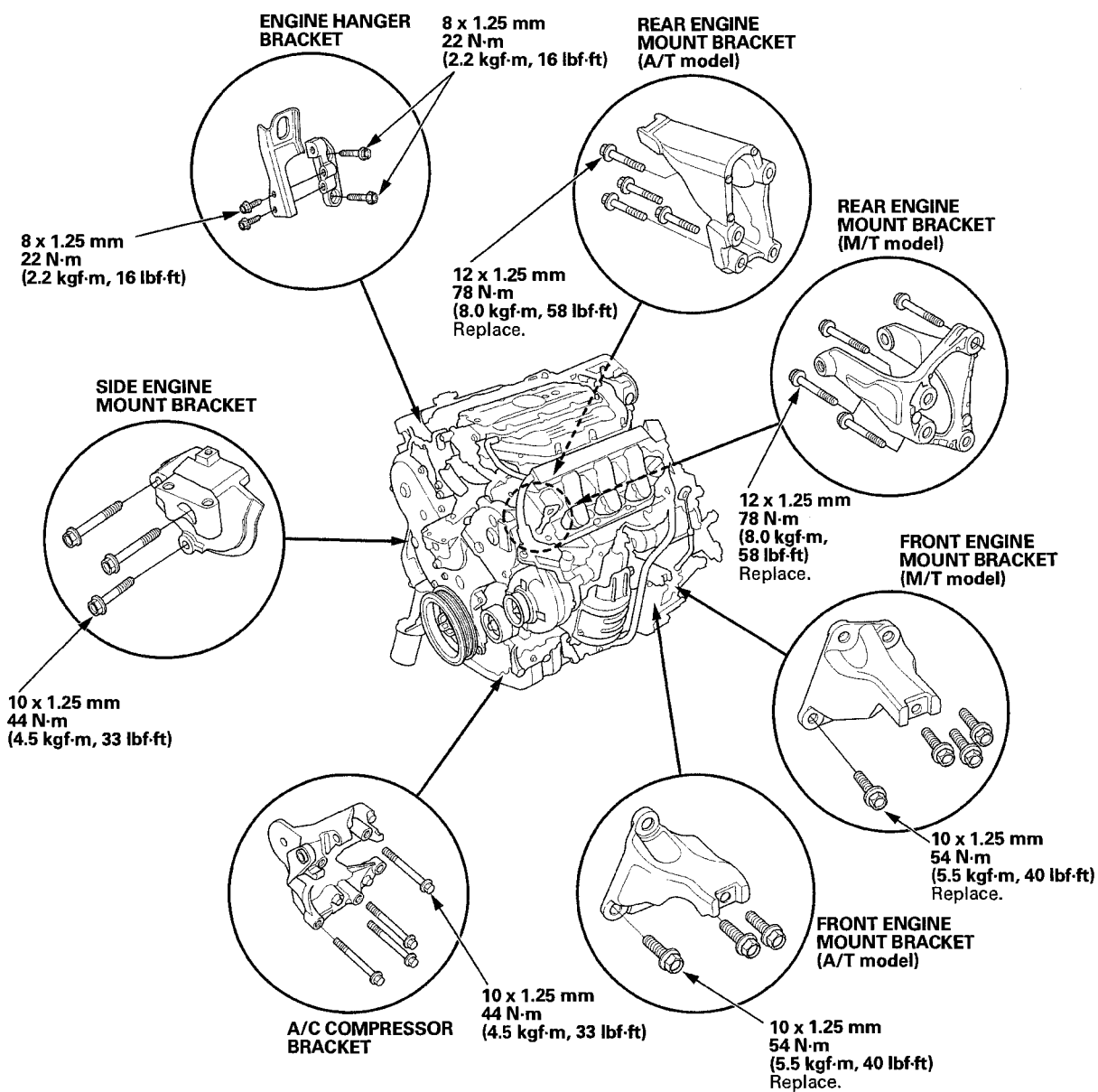
Engine Assembly

Engine Installation

Special Tools Required

- Engine Support Hanger, A and Reds AAR-T1256*
- Engine Hanger Balance Bar VSB02C000019*
- 2008 V6 Attachment Arm SIL02C000033*
- Subframe Adapter VSB02C000016*
- Subframe Alignment Pin 070AG-SJAA10S
- *Available through the Acura Tool and Equipment program, 888-424-6857.

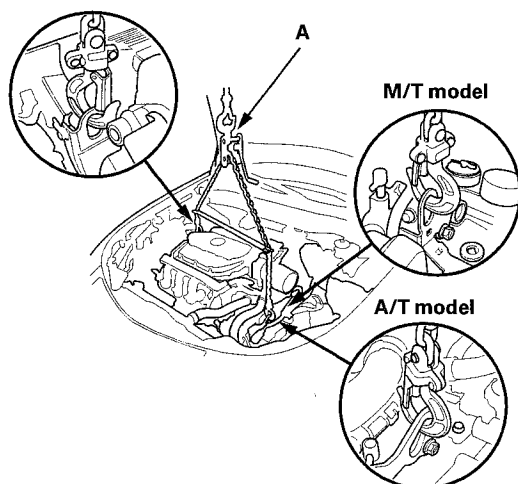
1. Install the engine mount brackets and the accessory brackets and tighten their bolts to the specified torque.



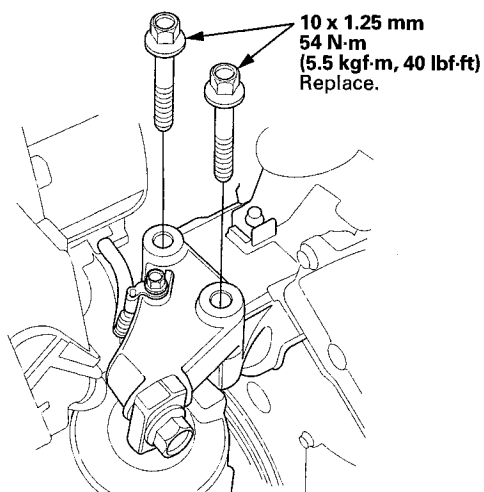


2. Position the engine/transmission under the vehicle. Be sure that they are properly aligned. Carefully lower the vehicle until the engine/transmission are properly positioned in the engine compartment. Make sure the vehicle is not resting on any part of the engine/transmission. Support the engine/transmission with a chain hoist (A) and carefully raise the engine/transmission into place.

NOTE: Reinstall the mounting bolts/support nuts in the sequence given in the following steps. Failure to follow this sequence may cause excessive noise and vibration, and reduce engine mount life.



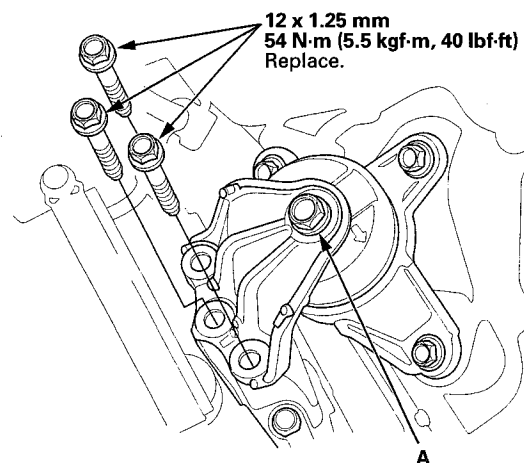
3. Install the mounting bolts into the upper half of the side engine mount bracket. Tighten the bolts to the specified torque.



4. Tighten the upper transmission mount bracket mounting bolts and nut to the specified torque.

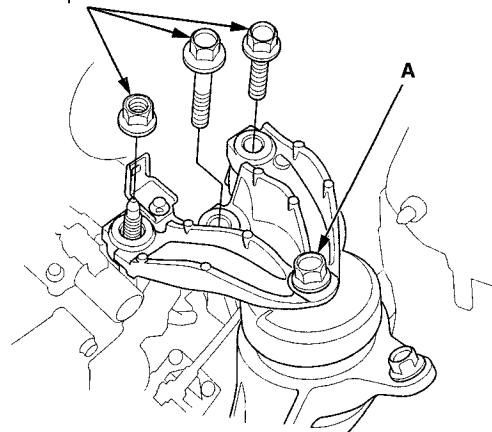
NOTE: If bolt (A) was removed by mistake during removal, the upper transmission mount bracket must be replaced as an assembly.

M/T model



A/T model

12 x 1.25 mm
59 N·m (6.0 kgf·m, 43 lbf·ft)
Replace.

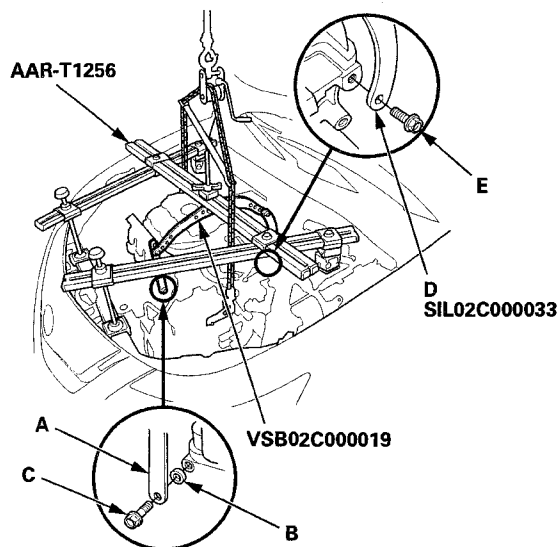


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Engine Assembly

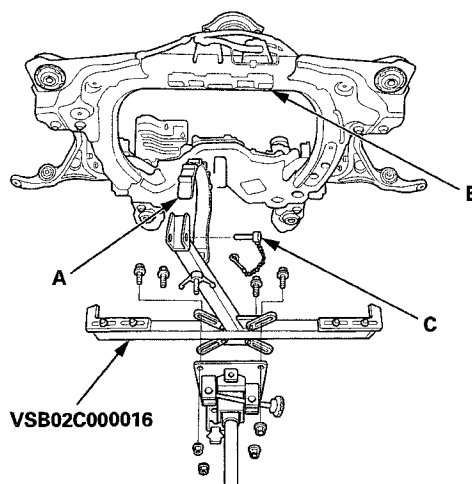
Engine Installation (cont'd)

5. Lift and support the engine with the engine support hanger (AAR-T1256) and the engine hanger balance bar (VSB02C000019). Attach the front arm (A) to the front cylinder head with a spacer (B) and a 10 x 1.25 mm bolt (C). Remove the rear arm from the engine hanger balance bar, and install the 2008 V6 attach arm (SIL02C000033), then attach the 2008 V6 attachment arm (D) to the rear cylinder head with a 8 x 1.25 mm bolt (E).



6. Remove the chain hoist, then raise the vehicle on the lift.

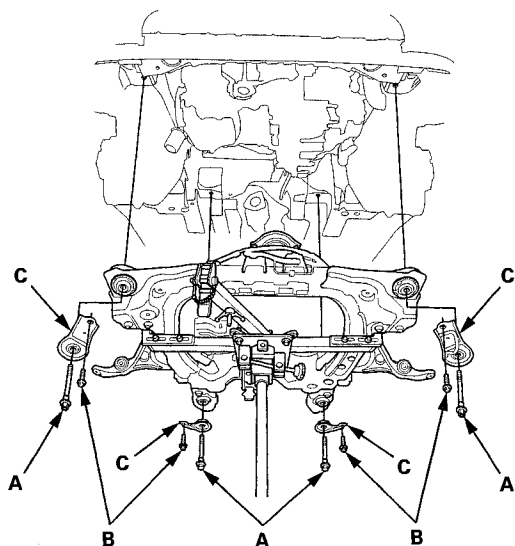
7. Attach the front subframe adapter (VSB02C000016) to the subframe by looping the belt (A) over the front of the subframe (B), then secure the belt with its stop (C).



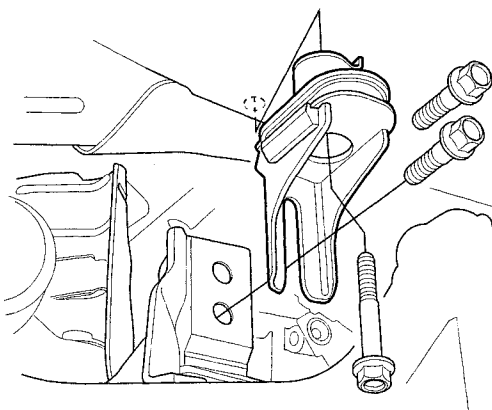
8. Line up the slots in the front subframe adapter arms with the bolt holes on the jack base, then securely attach them with four bolts, then raise the front subframe up to the body.



9. Loosely install the four subframe mounting bolts (A), four 12 x 1.25 mm bolts (B) with the stiffeners (C).

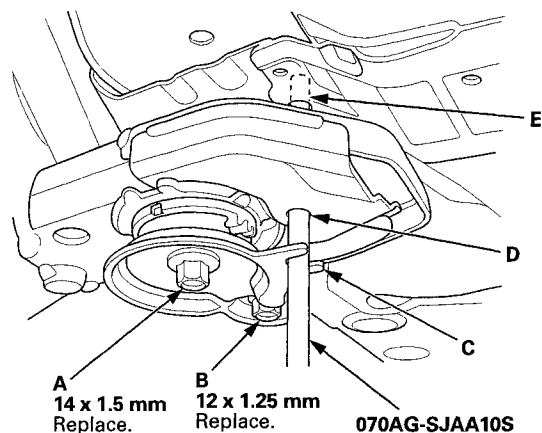


10. Loosely install the subframe middle mount.



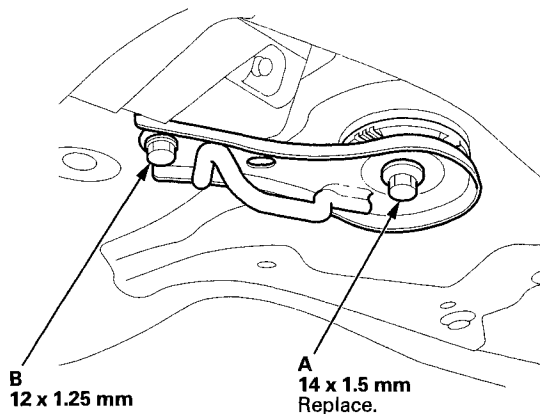
11. Remove the jack and the front subframe adapter.

12. Loosely install the new right-rear subframe mounting bolt (A) and the new right-rear stiffener mounting bolt (B); insert the subframe alignment pin (070AG-SJAA10S) through the positioning slot (C) on the rear stiffener, through the positioning hole (D) on the subframe, and into the positioning hole (E) on the body, then tighten the subframe mounting bolt.



13. Loosely install the new left-rear subframe mounting bolt and the new left-rear stiffener mounting bolt using the same procedure as the right-rear with the subframe alignment pin.

14. Loosely install the new subframe mounting bolt (A) and the stiffener mounting bolt (B) on both sides to the front stiffener.

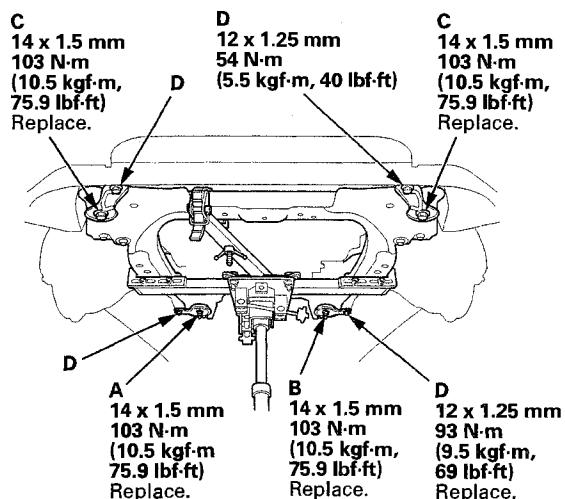


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Engine Assembly

Engine Installation (cont'd)

15. Tighten the right-rear subframe mounting bolt (A) to the specified torque.



16. Tighten the left-rear subframe mounting bolt (B) to the specified torque.

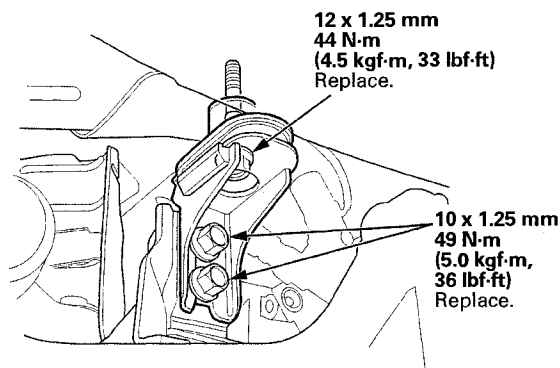
17. Tighten the front subframe mounting bolts (C) to the specified torque.

NOTE: Check all of the subframe mounting bolts, and retighten if necessary.

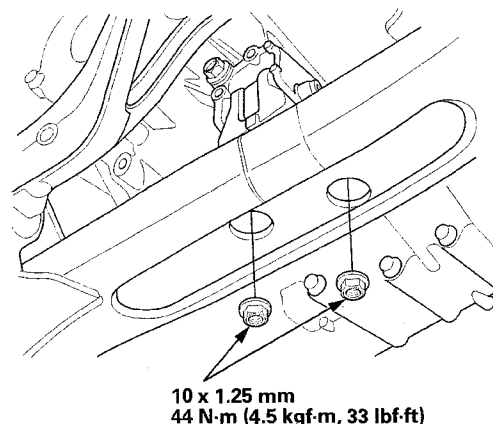
18. Tighten the front and rear stiffener mounting bolts (D) to the specified torque.

NOTE: Before tightening the stiffener mounting bolts, check that the positioning holes and slot are aligned using the subframe alignment pin.

19. Tighten the bolts securing the subframe middle mount.



20. Tighten the nuts securing the lower transmission mount.



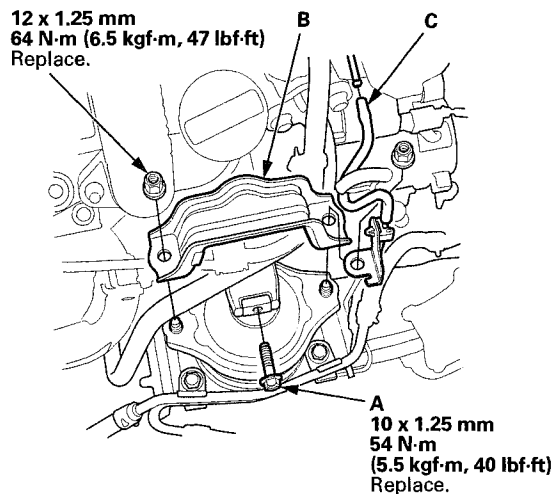
21. Lower the vehicle on the lift.

22. Remove the engine support hanger, the engine hanger balance bar and the 2008 V6 attachment arm.

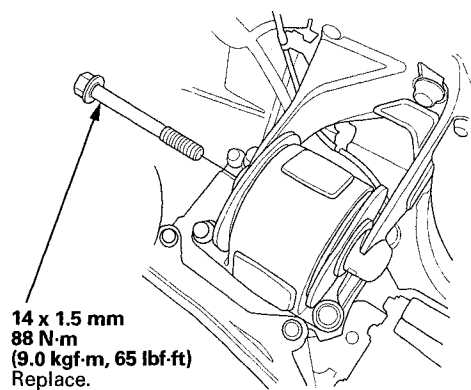


23. M/T model: Install the front engine mount (see page 5-25).

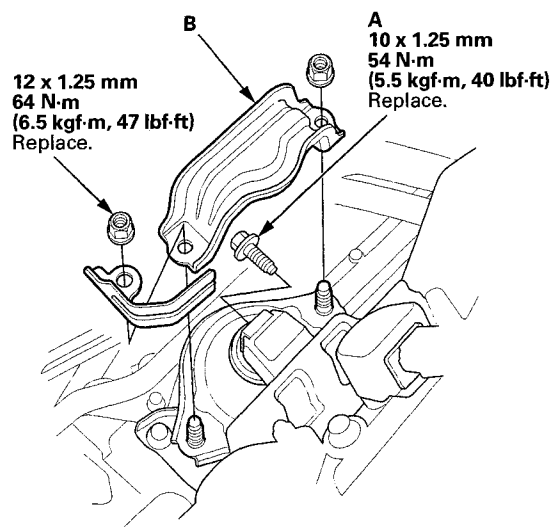
24. A/T model: Tighten the front engine mount bolt (A), then install the front engine mount stop (B) and connect the vacuum hose (C).



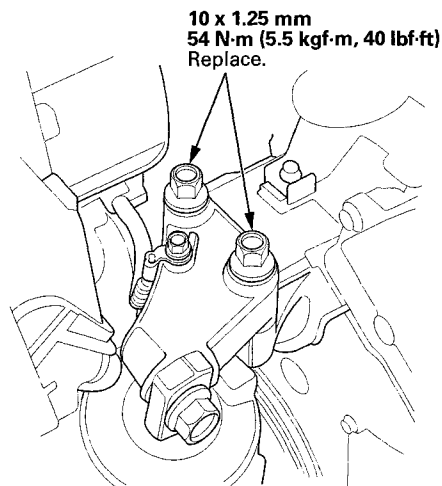
25. M/T model: Lift and support the engine with a jack and a wood block under the engine/transmission. Loosely install the rear engine mount bolt. Remove the jack and the wood block, then tighten the rear engine mount bolt.



26. A/T model: Tighten the rear engine mount bolt (A), then install the rear engine mount stop (B).



27. Loosen the mounting bolts for the upper half of the side engine mount bracket, then retighten them to the specified torque.



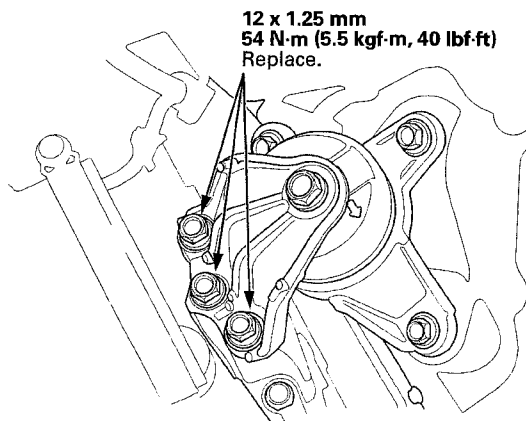
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Engine Assembly

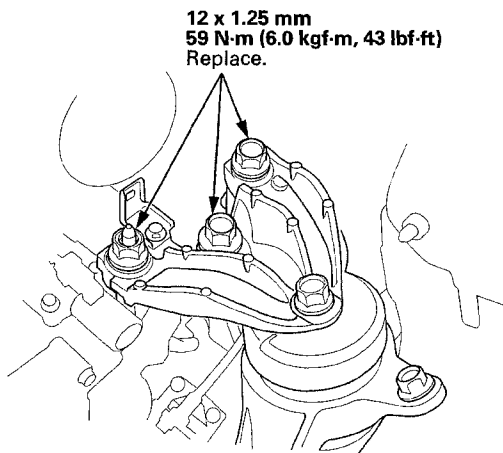
Engine Installation (cont'd)

28. Loosen the mounting bolts and nut for the upper transmission mount bracket, then retighten them to the specified torque.

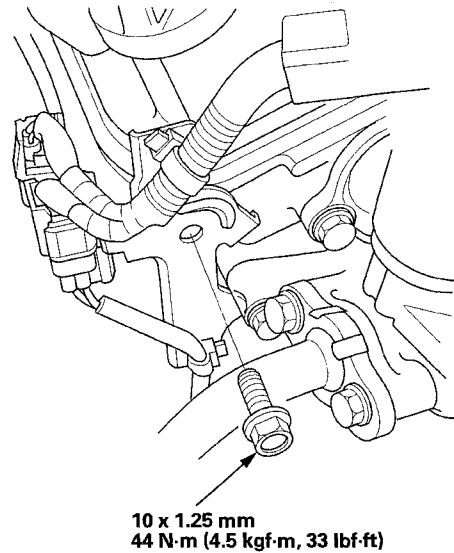
M/T model



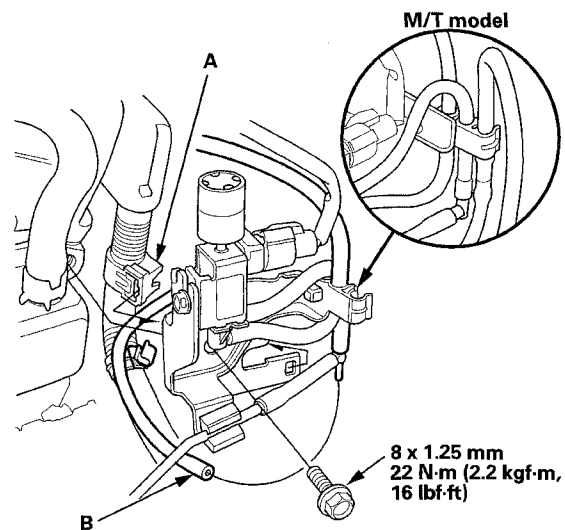
A/T model



29. Install the connector bracket to the front cylinder head.



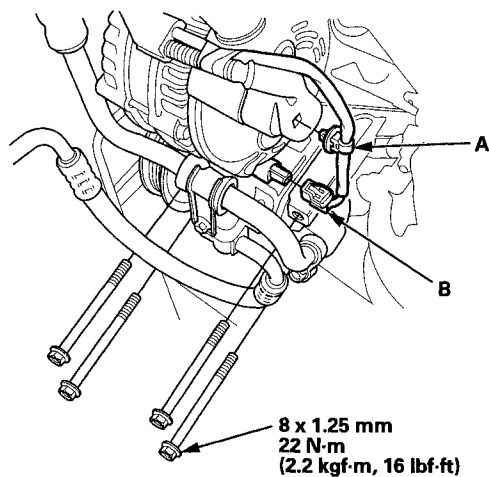
30. Install the engine mount control solenoid valve bracket to the rear cylinder head, then install the harness clamp (A).



31. A/T model: Connect the vacuum hose (B).

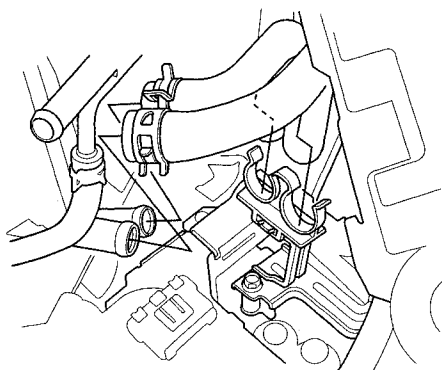


32. Install the A/C compressor, then install the harness clamp (A) and connect the A/C compressor clutch connector (B).

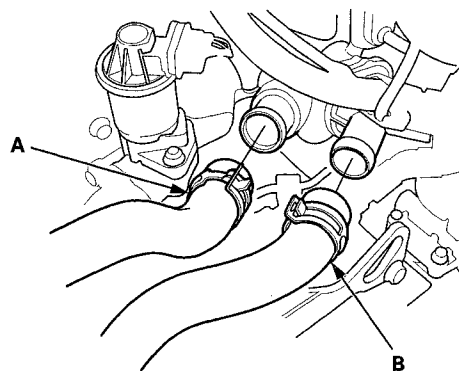


33. Install the radiator (see page 10-13).

34. Connect the heater hoses.



35. Connect the upper radiator hose (A) and the lower radiator hose (B).



36. Raise the vehicle on the lift.

37. A/T model: Connect the automatic transmission fluid (ATF) cooler hoses to the transmission (see step 52 on page 14-232).

38. With SH-AWD: Install the transfer assembly:

- Manual transmission (see page 13-103)
- Automatic transmission (see page 14-208)

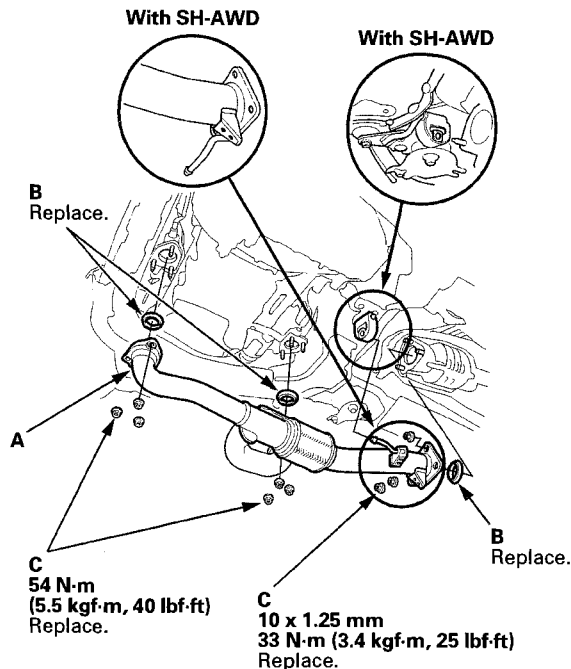
39. With SH-AWD: Install the propeller shaft (see page 16-52).

(cont'd)

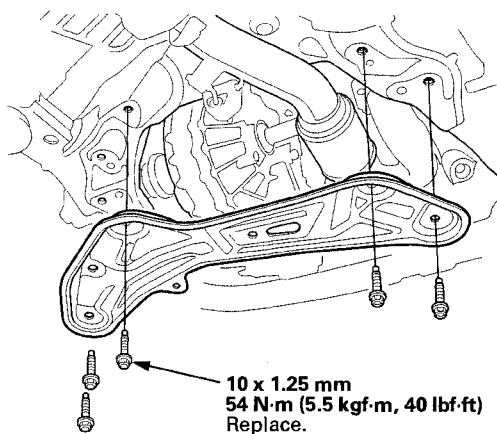
Engine Assembly

Engine Installation (cont'd)

40. Install the exhaust pipe A using new gaskets (B) and new self-locking nuts (C).



41. Install the front subframe stiffener.



42. Install a new set ring on the end of each driveshaft, then install the driveshafts. Make sure each ring "clicks" into place in the differential and the intermediate shaft.

43. Connect the suspension lower arm to the knuckles (see step 7 on page 18-21).

44. Connect the tie-rod end ball joints to the knuckles (see step 44 on page 17-77).

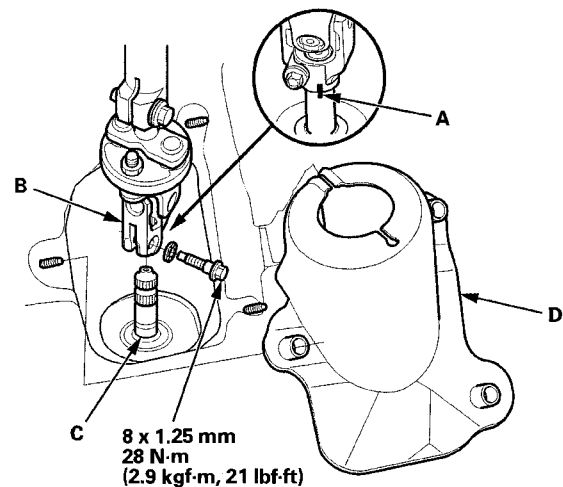
45. Install the damper fork (see step 4 on page 18-32).

46. Install the splash shield (see page 20-205).

47. Install the front wheels.

48. Lower the vehicle on the lift.

49. Align the reference mark (A) on the steering joint and the steering gearbox pinion shaft. Connect the steering joint (B) to the steering gearbox pinion shaft (C). Tighten the steering joint bolt.

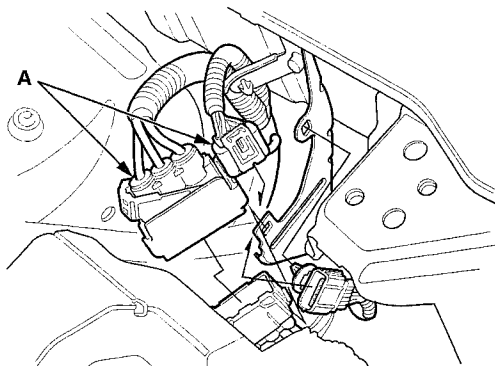


50. Install the steering joint cover (D).

51. Install the steering wheel (see page 17-8).



52. Connect the electrical power steering (EPS) connectors (A).



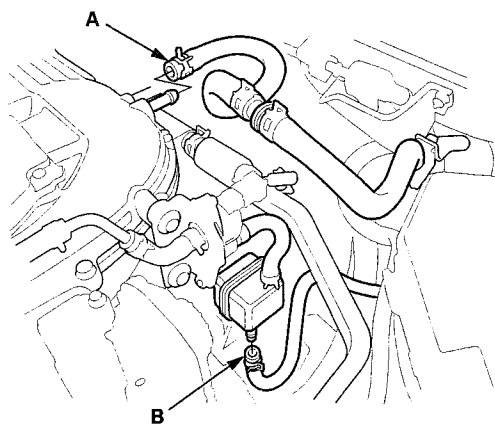
53. Install the drive belt (see page 4-44).

54. A/T model: Install the shift cable (see page 14-250).

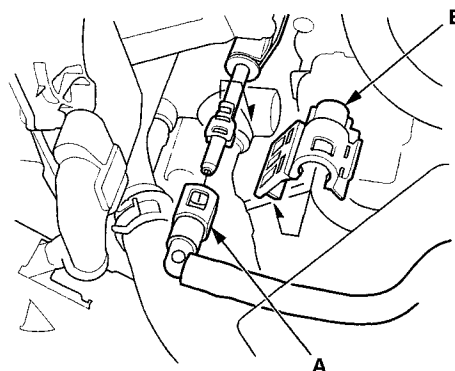
55. M/T model: Install the clutch slave cylinder and the clutch line bracket mounting bolt (see step 49 on page 13-34).

56. M/T model: Install the shift cable and the select cable, then tighten the three bolts securing the shift cable holder (see step 50 on page 13-35).

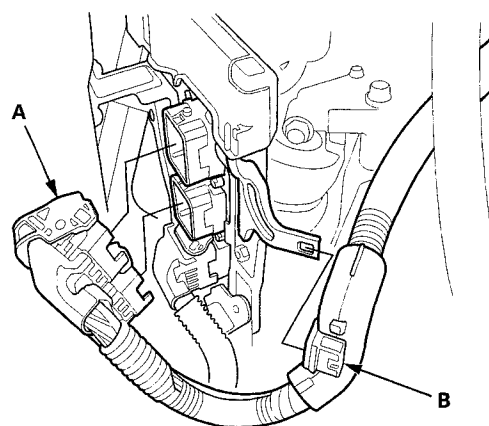
57. Connect the brake booster vacuum hose (A) and the evaporative emission (EVAP) canister hose (B).



58. Connect the fuel feed hose (A) (see page 11-383), then install the quick-connect fitting cover (B).



59. Connect the engine control module (ECM)/powertrain control module (PCM) connectors (A), then install the harness clamp (B).

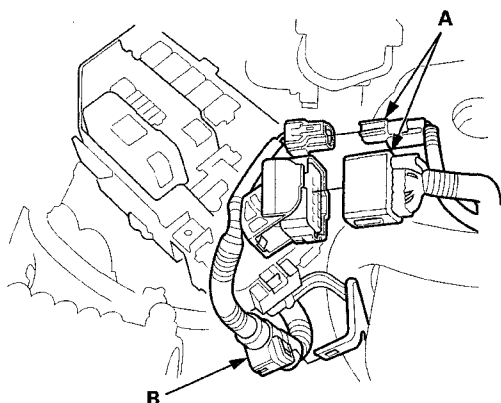


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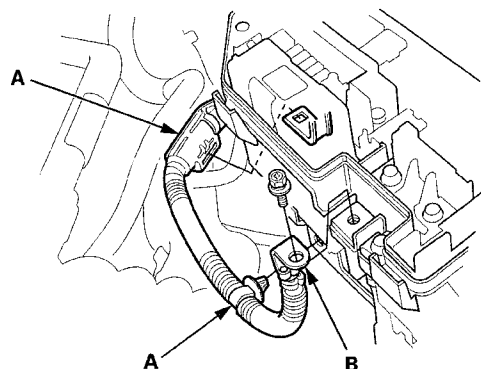
Engine Assembly

Engine Installation (cont'd)

60. Connect the harness connectors (A), then install the harness clamp (B).



61. Install the harness clamps (A).

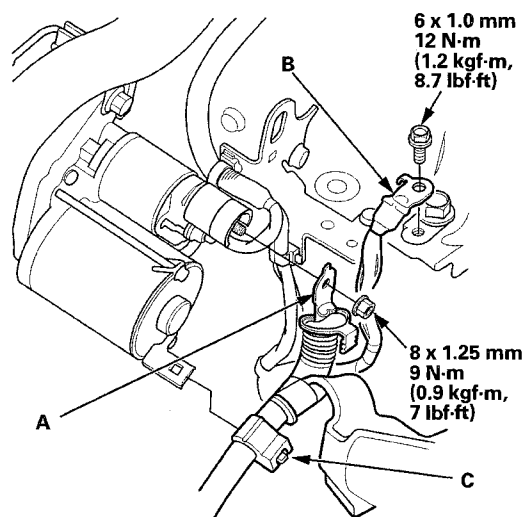


62. Connect the battery cable (B) to the under-hood fuse/relay box.

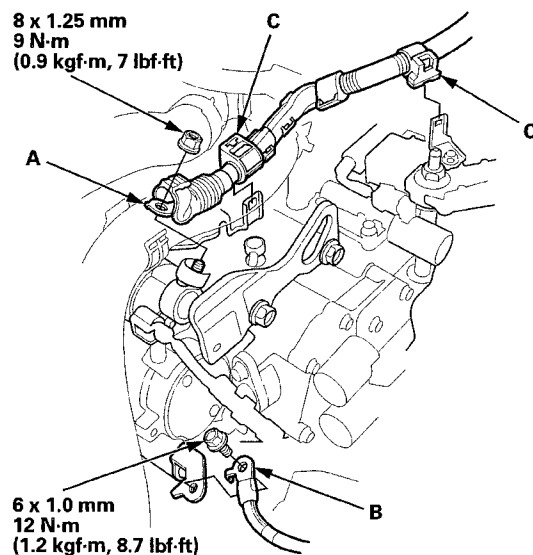
63. Install the strut brace (see page 20-210).

64. Connect the positive starter cable (A), then install the ground cable (B) and the harness clamps (C).

M/T model

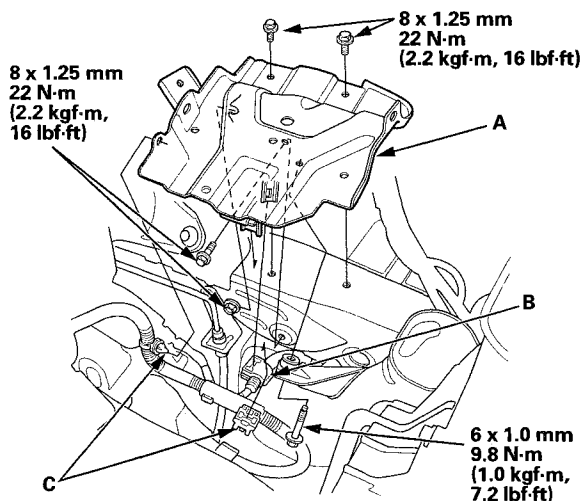


A/T model

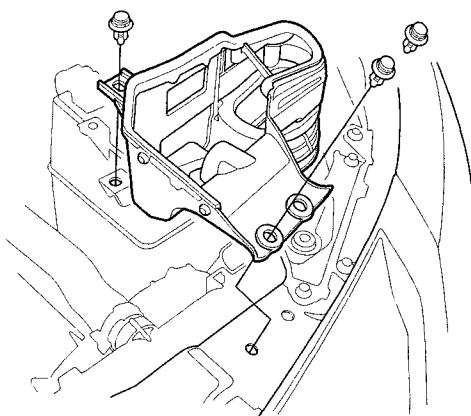




65. Install the battery base (A), then install the harness clamp (B).



66. M/T model: Install the harness clamps (C).
67. Install the air cleaner assembly (see page 11-421).
68. Do the battery installation procedure (see page 22-87).
69. Install the air intake duct splash separator.



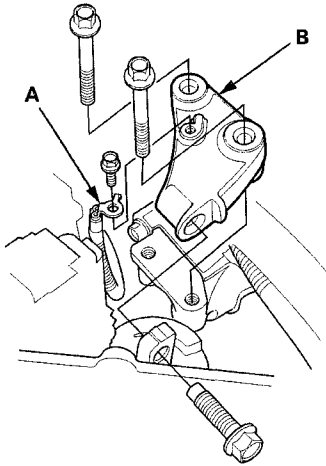
70. Inspect for fuel leaks. Turn the ignition switch to ON (II), or press the engine start/stop button to select the ON mode (do not operate the starter) so the fuel pump runs for about 2 seconds and pressurizes the fuel line. Repeat this operation three times, then check for fuel leaks at any point in the fuel line.
71. Refill the engine with the recommended engine oil (see step 4 on page 8-12).
72. Refill the transmission with fluid:
- Manual transmission (see page 13-14)
 - Automatic transmission (see page 14-203)
73. M/T model: Check that the transmission shifts into all gears smoothly.
74. A/T model: Move the shift lever to each gear, and verify that the A/T gear position indicator follows the transmission range switch.
75. Refill the radiator with engine coolant, and bleed the air from the cooling system (see step 8 on page 10-7).
76. Check for fluid leaks.
77. Do the ECM/PCM reset procedure (see page 11-4).
78. Do the crankshaft position (CKP) pattern clear/CKP pattern learn procedure (see page 11-5).
79. Inspect the idle speed (see page 11-336).
80. Inspect the ignition timing (see page 4-32).
81. Install the engine compartment covers (see page 20-186).
82. Check the wheel alignment (see page 18-5).

Engine Assembly

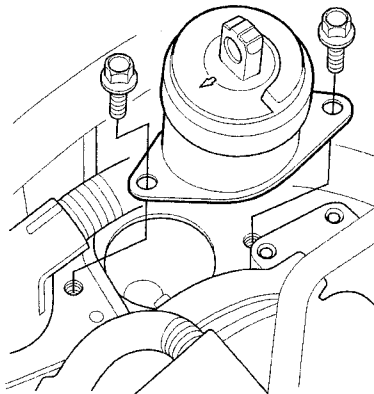
Side Engine Mount Removal and Installation

Removal

1. Remove the engine compartment covers (see page 20-186).
2. Lift and support the engine with a jack and a wood block under the oil pan.
3. Remove the ground cable (A), then remove the upper half of the side engine mount bracket (B).

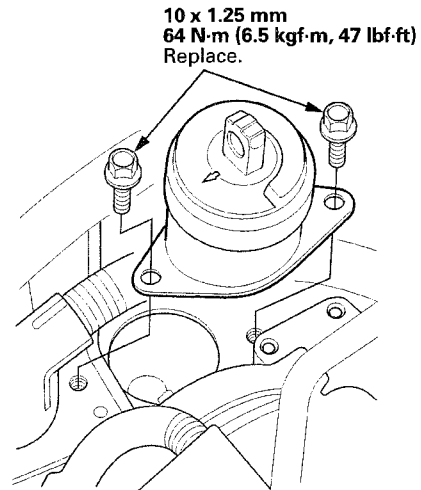


4. Remove the side engine mount.

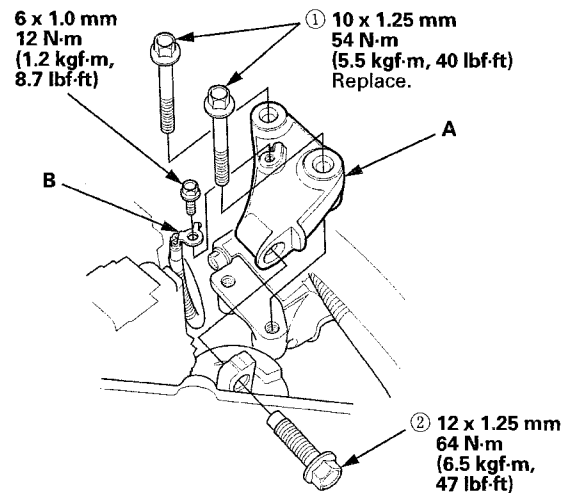


Installation

1. Install the side engine mount.



2. Loosely install the upper half of the side engine mount bracket (A).



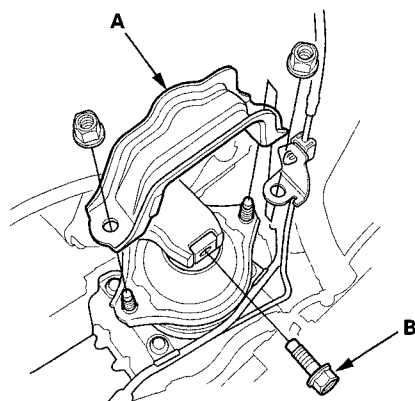
3. Remove the jack and the wood block.
4. Tighten the bolts in the numbered sequence shown.
5. Install the ground cable (B).
6. Install the engine compartment covers (see page 20-186).



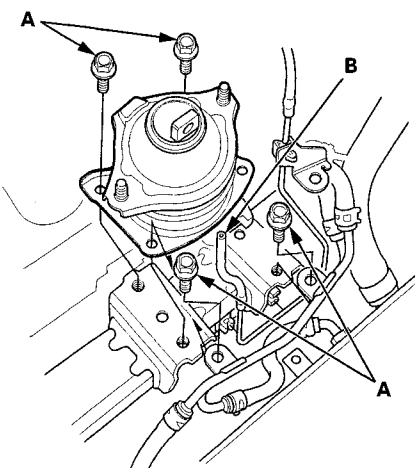
Front Engine Mount Removal and Installation

Removal

1. Remove the engine compartment covers (see page 20-186).
2. Remove the front warm up three way catalytic converter (front WU-TWC) (see page 11-429).
3. Remove the front engine mount stop (A), then remove the front engine mount bolt (B).



4. Remove the front engine mount mounting bolts (A).



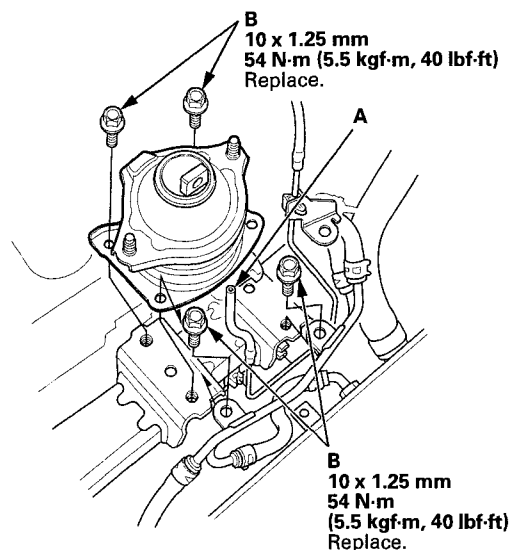
5. Lift and support the engine with a jack and a wood block under the engine/transmission.
6. Remove the front engine mount and disconnect the vacuum hose (B).

NOTE: A/T model: Do not bend the ATF cooler pipe when removing the front engine mount.

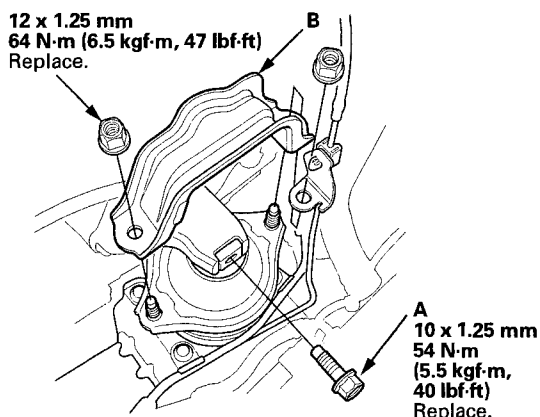
Installation

1. Connect the vacuum hose (A), then align the front engine mount with its mounting holes and install the front engine mount mounting bolts (B).

NOTE: A/T model: Do not bend the ATF cooler pipe when installing the front engine mount.



2. Remove the jack and the wood block.
3. Tighten the front engine mount bolt (A), then install the front engine mount stop (B).



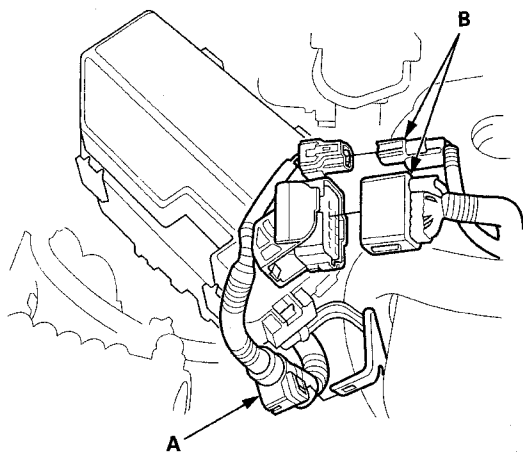
4. Install the front warm up three way catalytic converter (front WU-TWC) (see page 11-429).
5. Install the engine compartment covers (see page 20-186).

Engine Assembly

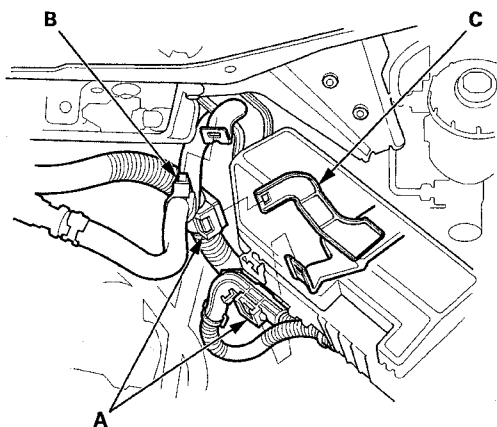
Rear Engine Mount Removal and Installation

Removal-M/T model

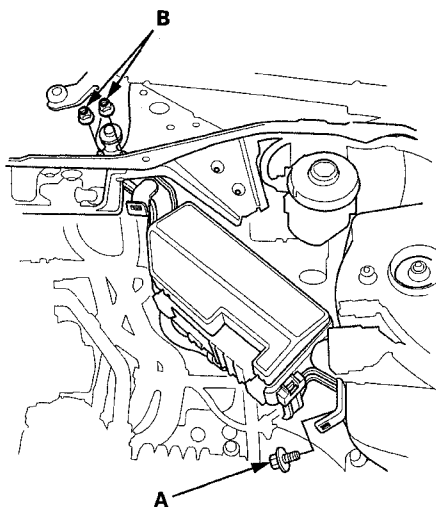
1. Remove the engine compartment covers (see page 20-186).
2. Do the battery removal procedure (see page 22-87).
3. Remove the air cleaner assembly (see page 11-421).
4. Remove the cowl cover (see page 20-189).
5. Remove the strut brace (see page 20-210).
6. Remove the harness clamp (A), then disconnect the harness connectors (B) on the left strut tower.



7. Remove the two harness clamps (A) and the brake booster vacuum hose clamp (B) from the under-hood fuse/relay box mounting bracket (C).



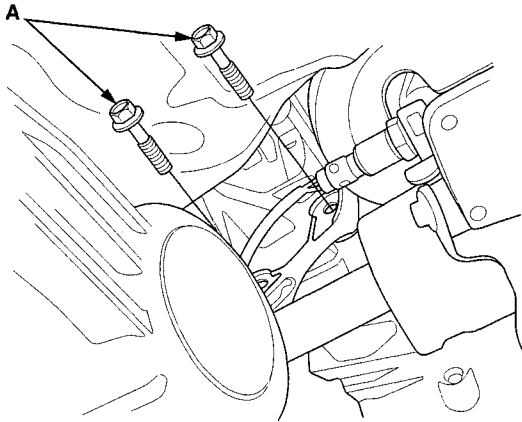
8. Remove the mounting bolt (A) and the two mounting nuts (B) from the under-hood fuse/relay box mounting bracket, then tilt the under-hood fuse/relay box forward.



9. Raise the vehicle on the lift.
10. Remove the splash shield (see page 20-205).
11. Remove the front subframe stiffener (see step 37 on page 5-6).
12. Remove exhaust pipe A (see step 38 on page 5-7).



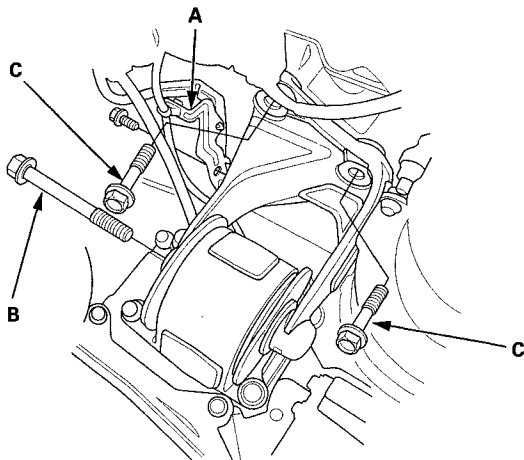
13. Remove the two rear engine mount bracket mounting bolts (A).



14. Lower the vehicle on the lift.

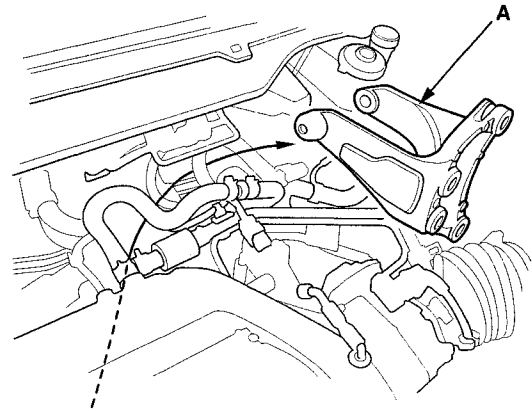
15. Lift and support the engine with a jack and a wood block under the engine/transmission.

16. Remove the harness bracket (A).

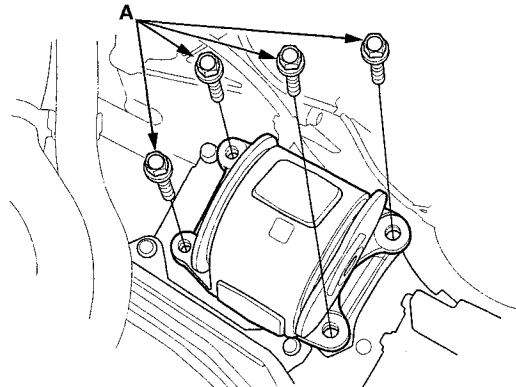


17. Remove the rear engine mount mounting bolt (B), then remove the two rear engine mount bracket mounting bolts (C).

18. Remove the rear engine mount bracket (A) from the top by sliding it out, and lifting it out from the driver's side.



19. Remove the rear engine mount mounting bolts (A).

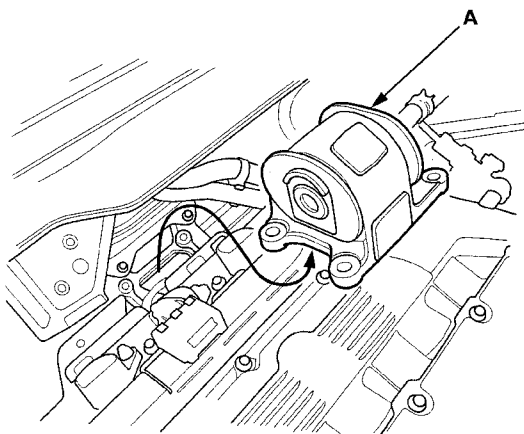


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Engine Assembly

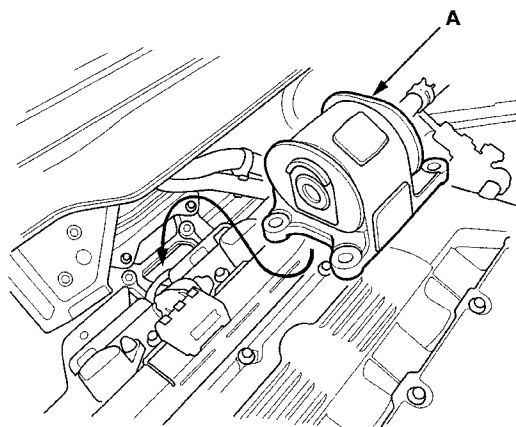
Rear Engine Mount Removal and Installation (cont'd)

20. Remove the rear engine mount (A).



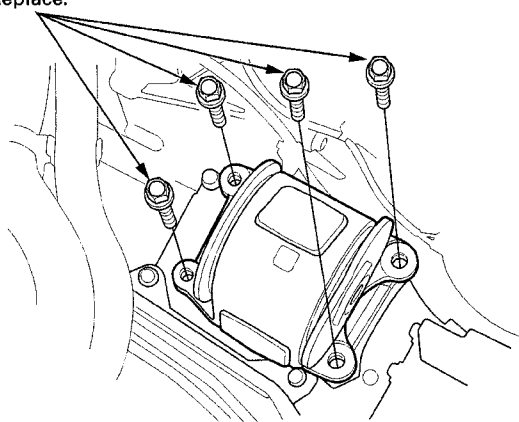
Installation-M/T model

1. Install the rear engine mount (A).



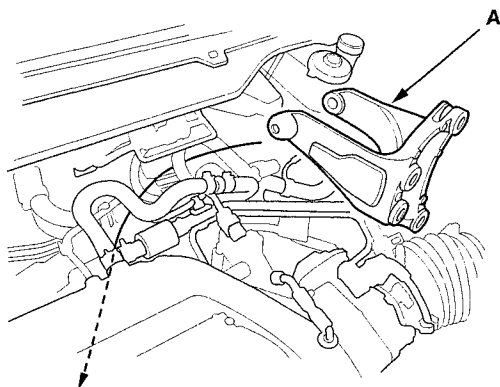
2. Align the rear engine mount with its mounting holes and install the rear engine mount mounting bolts (A).

A
10 x 1.25 mm
54 N·m (5.5 kgf-m, 40 lbf-ft)
Replace.

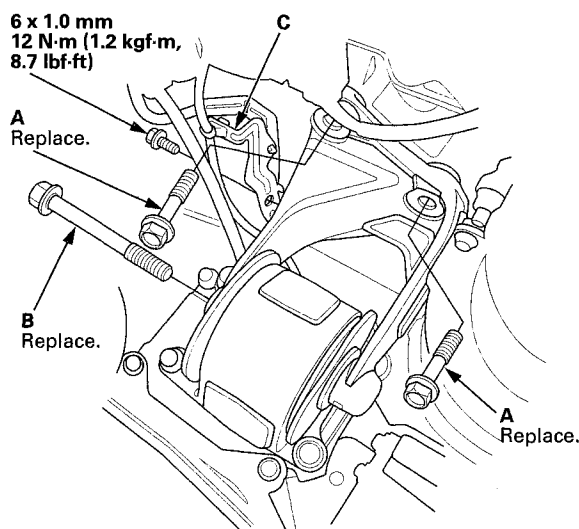




3. Install the rear engine mount bracket (A) from the top by sliding it into place from the driver's side.

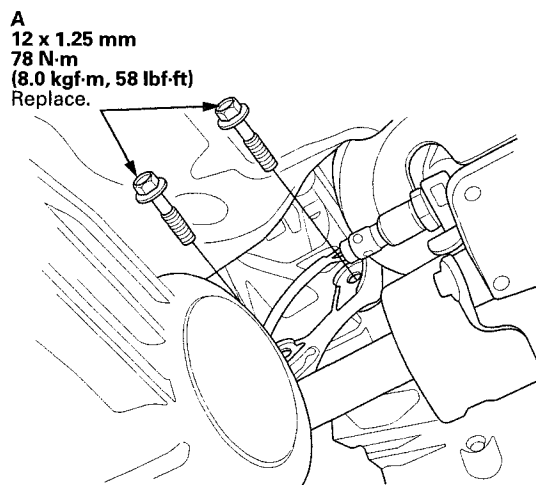


4. Loosely install the two rear engine mount bracket mounting bolts (A) and the rear engine mount mounting bolts (B).



5. Install the harness bracket (C).
6. Remove the jack and the wood block, then raise the vehicle on the lift.

7. Tighten the two rear engine mount bracket mounting bolt (A).



8. Install the exhaust pipe A (see step 40 on page 5-20).
9. Install the front subframe stiffener (see step 41 on page 5-20).
10. Install the splash shield (see page 20-205).
11. Lower the vehicle on the lift.

(cont'd)

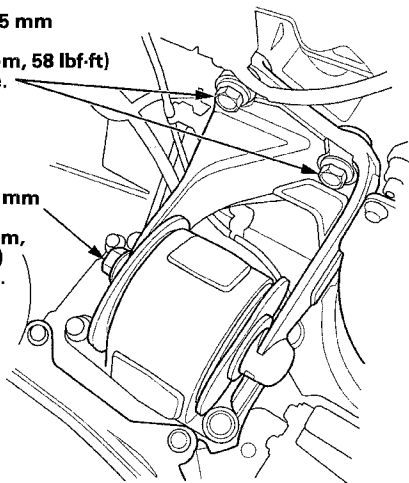
Engine Assembly

Rear Engine Mount Removal and Installation (cont'd)

12. Tighten the two rear engine mount bracket mounting bolts (A), then tighten the rear engine mount mounting bolt (B).

A
12 x 1.25 mm
78 N·m
(8.0 kgf-m, 58 lbf-ft)
Replace.

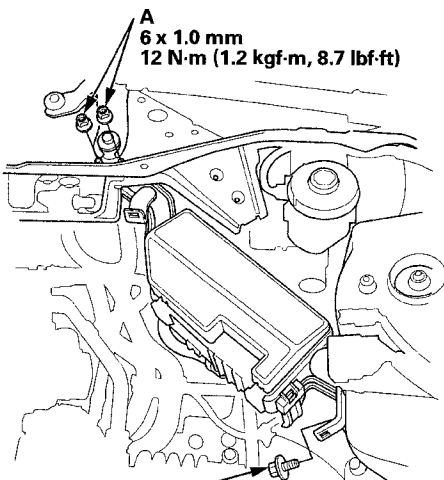
B
14 x 1.5 mm
88 N·m
(9.0 kgf-m, 65 lbf-ft)
Replace.



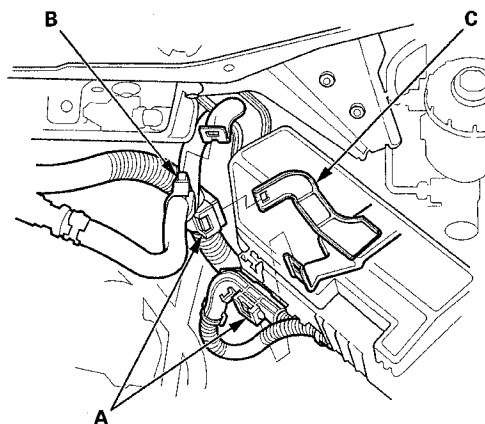
13. Install the under-hood fuse/relay box with the mounting bracket, and tighten the two mounting nuts (A) and the mounting bolt (B).

A
6 x 1.0 mm
12 N·m (1.2 kgf-m, 8.7 lbf-ft)

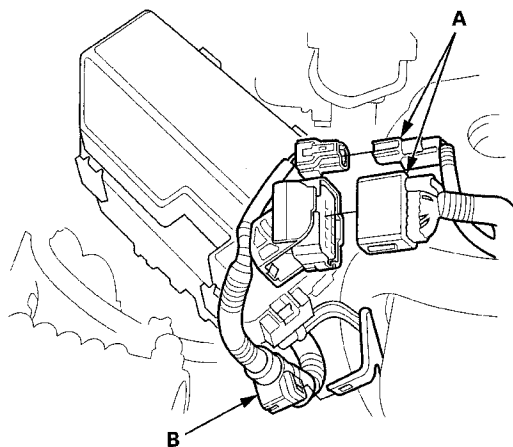
B
6 x 1.0 mm
12 N·m (1.2 kgf-m, 8.7 lbf-ft)



14. Install the two harness clamps (A) and the brake booster vacuum hose clamp (B) to the under-hood fuse/relay box mounting bracket (C).



15. Connect the harness connectors (A), then install the harness clamp (B) on the left strut tower.

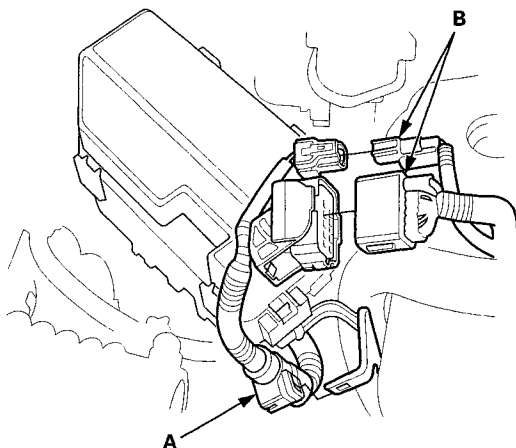


16. Install the strut brace (see page 20-210).
17. Install the cowl cover (see page 20-189).
18. Install the air cleaner assembly (see page 11-421).
19. Do the battery installation procedure (see page 22-87).
20. Install the engine compartment covers (see page 20-186).

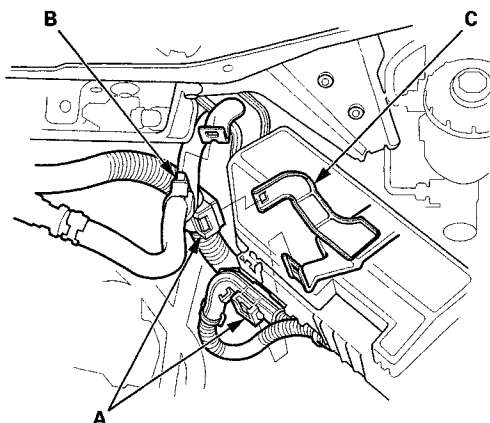


Removal-A/T model

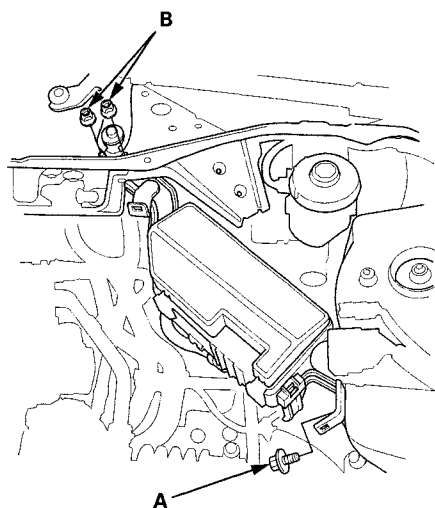
1. Remove the engine compartment covers (see page 20-186).
2. Do the battery removal procedure (see page 22-87).
3. Remove the air cleaner assembly (see page 11-421).
4. Remove the cowl cover (see page 20-189).
5. Remove the strut brace (see page 20-210).
6. Remove the harness clamp (A), then disconnect the harness connectors (B) on the left strut tower.



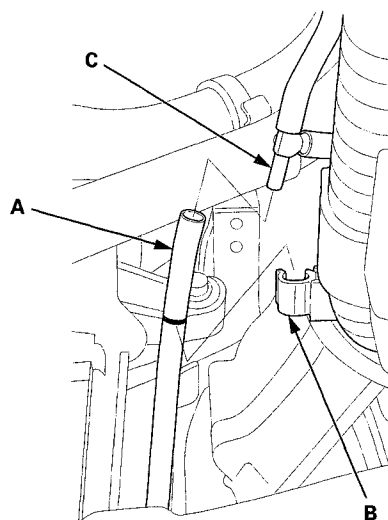
7. Remove the two harness clamps (A) and the brake booster vacuum hose clamp (B) from the under-hood fuse/relay box mounting bracket (C).



8. Remove the mounting bolt (A) and the two mounting nuts (B) from the under-hood fuse/relay box mounting bracket, then tilt the under-hood fuse/relay box forward.



9. Remove the vacuum hose (A) from the clamp (B) and disconnect the vacuum hose from the three way valve (C).

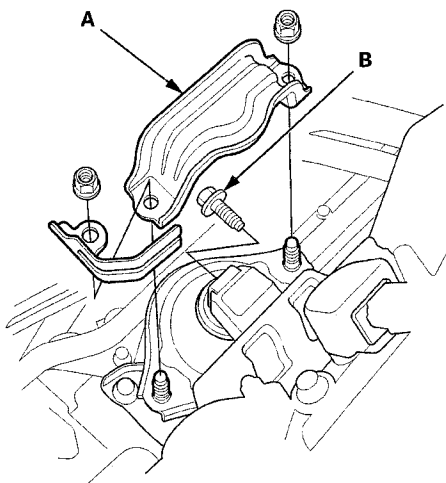


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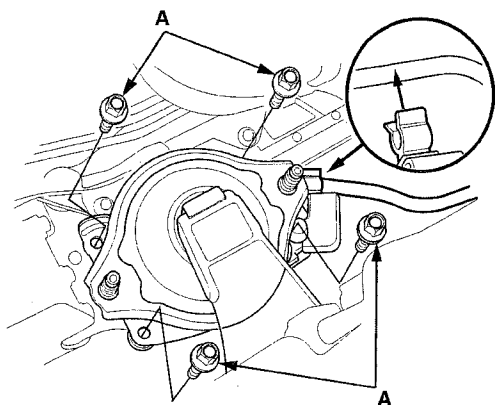
Engine Assembly

Rear Engine Mount Removal and Installation (cont'd)

10. Remove the rear engine mount stop (A), then remove the rear engine mount bolt (B).

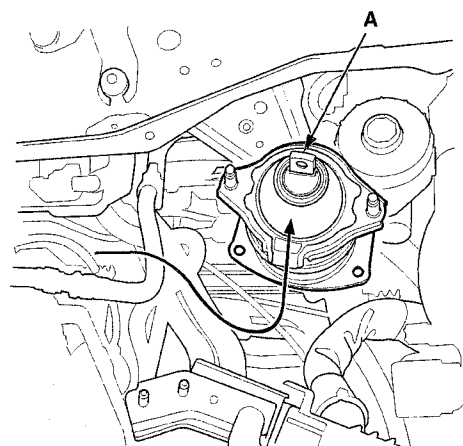


11. Remove the rear engine mount mounting bolts (A).



12. Lift and support the engine with a jack and a wood block under the engine/transmission.

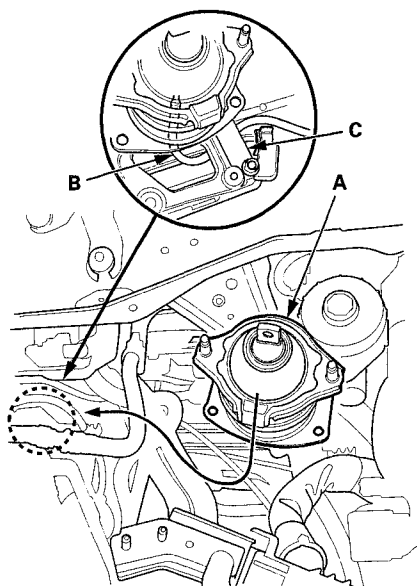
13. Remove the rear engine mount (A) from the top by sliding it out, and lifting it out from the driver's side.



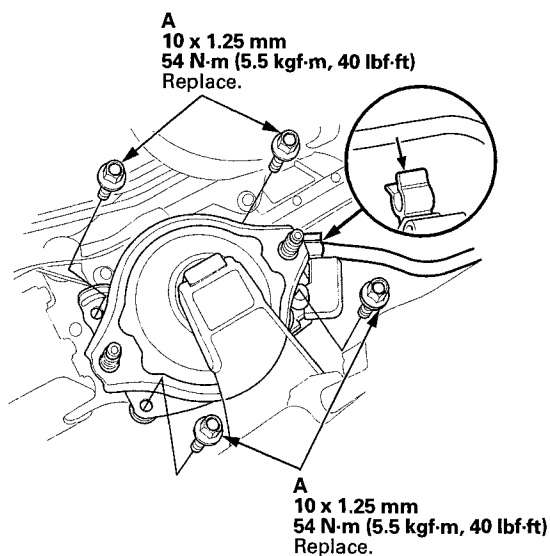


Installation-A/T model

1. Install the rear engine mount (A) from the top by sliding it into place from the driver's side and route the vacuum hose (B) through the hole in the mount base bracket (C).

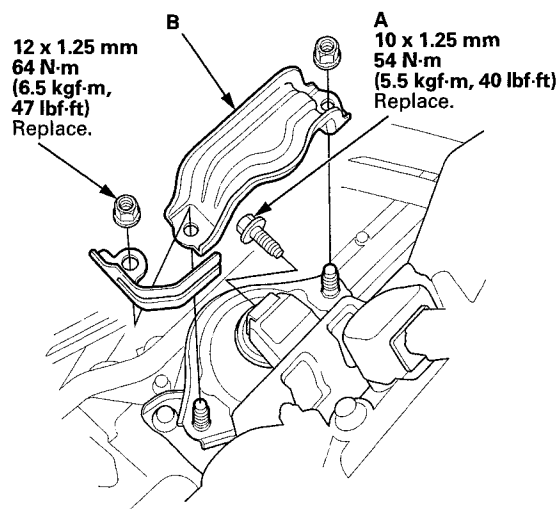


2. Align the rear engine mount with its mounting holes and install the rear engine mount mounting bolts (A).

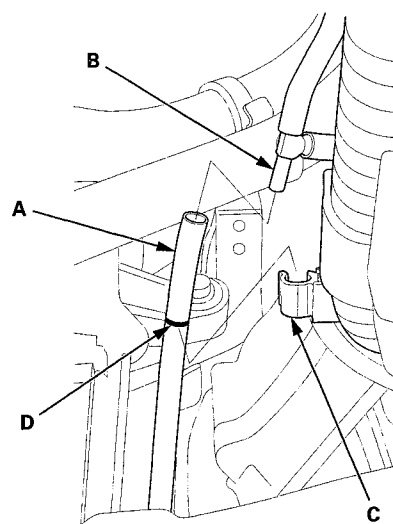


3. Remove the jack and the wood block.

4. Tighten the rear engine mount bolt (A), then install the rear engine mount stop (B).



5. Connect the vacuum hose (A) to the three way valve (B) and install the vacuum hose on its clamp (C) at the mark (D).

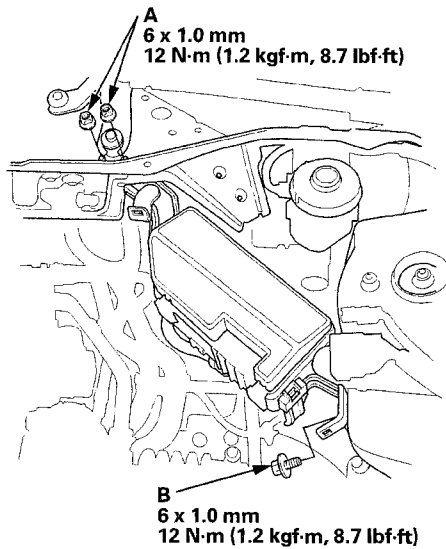


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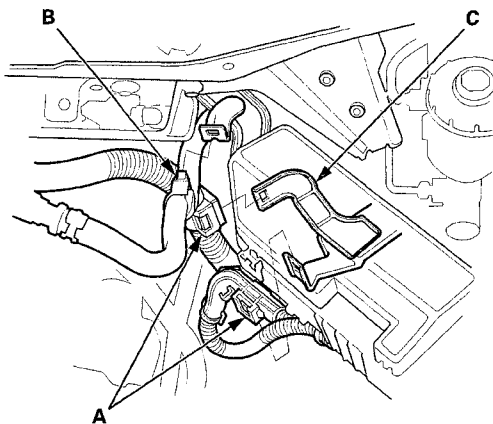
Engine Assembly

Rear Engine Mount Removal and Installation (cont'd)

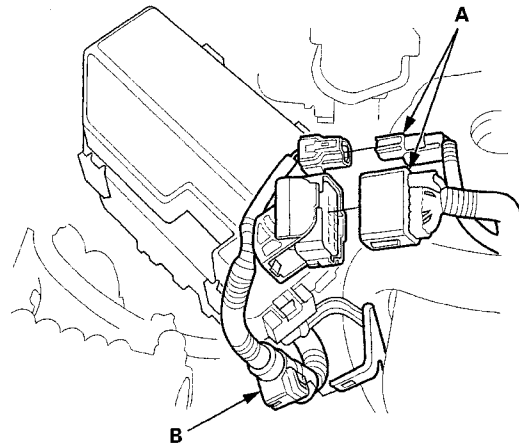
6. Install the under-hood fuse/relay box with the mounting bracket, and tighten the two mounting nuts (A) and the mounting bolt (B).



7. Install the two harness clamps (A) and the brake booster vacuum hose clamp (B) to the under-hood fuse/relay box mounting bracket (C).



8. Connect the harness connectors (A), then install the harness clamp (B) on the left strut tower.



9. Install the strut brace (see page 20-210).
10. Install the cowl cover (see page 20-189).
11. Install the air cleaner assembly (see page 11-421).
12. Do the battery installation procedure (see page 22-87).
13. Install the engine compartment covers (see page 20-186).

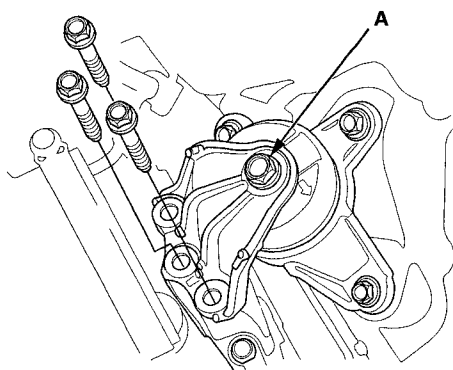


Upper Transmission Mount Removal and Installation

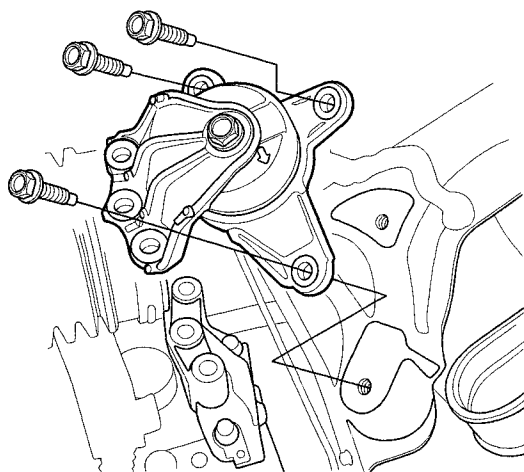
Removal-M/T model

1. Remove the splash shield (see page 20-205).
2. Remove the engine compartment covers (see page 20-186).
3. Remove the air cleaner assembly (see page 11-421).
4. Lift and support the engine with a jack and a wood block under the transmission.
5. Remove the upper transmission mount bracket mounting bolts.

NOTE: Do not remove the bolt (A) from the upper transmission mount. If the bolt is removed, the upper transmission mount must be replaced as an assembly.

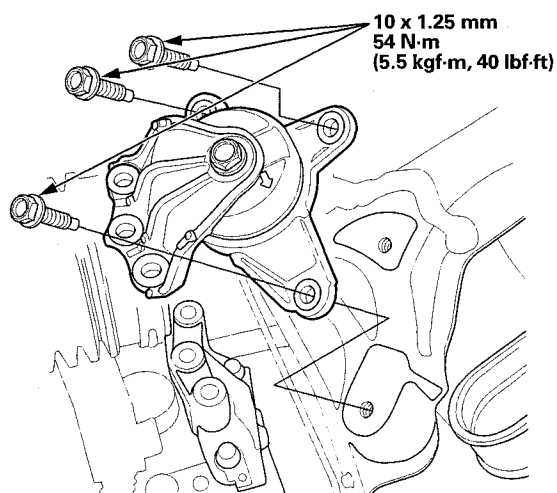


6. Remove the upper transmission mount.

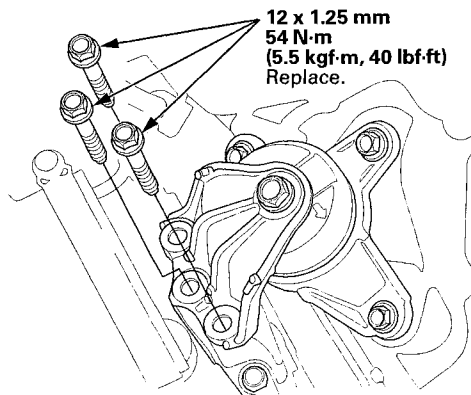


Installation-M/T model

1. Install the upper transmission mount.



2. Loosely install the upper transmission mount bracket mounting bolts.



3. Remove the jack and the wood block.
4. Tighten the upper transmission mount bracket mounting bolts.
5. Install the air cleaner assembly (see page 11-421).
6. Install the engine compartment covers (see page 20-186).
7. Install the splash shield (see page 20-205).

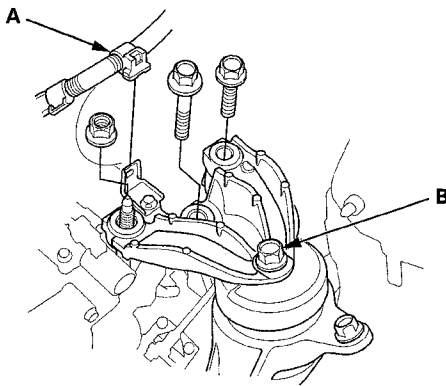
Engine Assembly

Upper Transmission Mount Removal and Installation (cont'd)

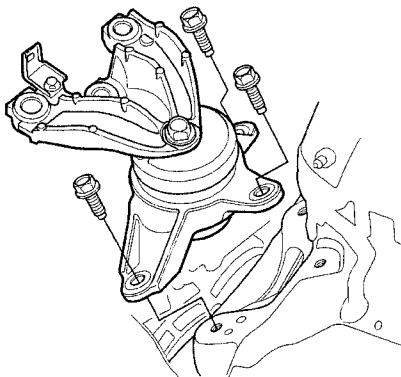
Removal-A/T model

1. Remove the splash shield (see page 20-205).
2. Remove the engine compartment covers (see page 20-186).
3. Remove the air cleaner assembly (see page 11-421).
4. Lift and support the engine with a jack and a wood block under the transmission.
5. Remove the harness clamp (A), then remove the upper transmission mount bracket mounting bolts and nut.

NOTE: Do not remove the bolt (B) from the upper transmission mount. If the bolt is removed, the upper transmission mount must be replaced as an assembly.

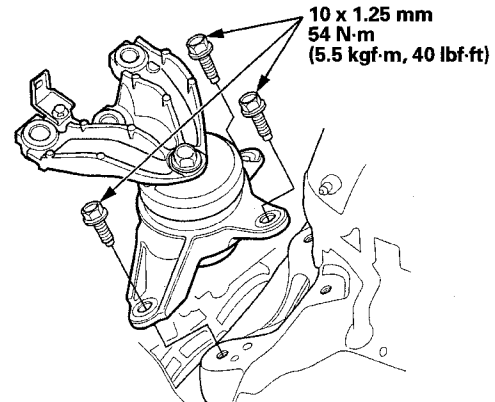


6. Remove the upper transmission mount.

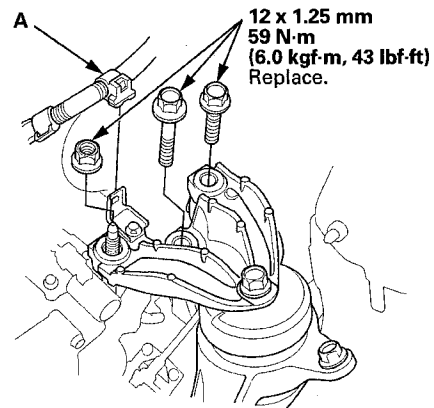


Installation-A/T model

1. Install the upper transmission mount.



2. Loosely install the upper transmission mount bracket mounting bolts and nut.



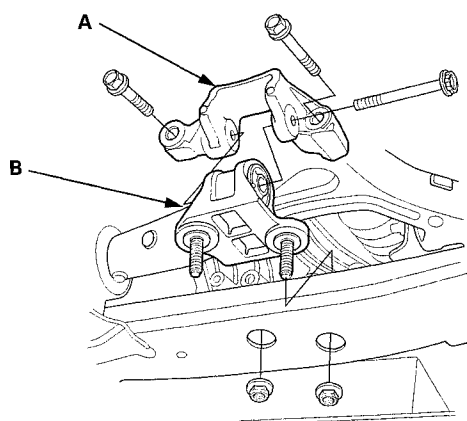
3. Remove the jack and the wood block.
4. Tighten the upper transmission mount bracket mounting bolts and nut.
5. Install the harness clamp (A).
6. Install the air cleaner assembly (see page 11-421).
7. Install the engine compartment covers (see page 20-186).
8. Install the splash shield (see page 20-205).



Lower Transmission Mount Removal and Installation

Removal-M/T model

1. Remove the splash shield (see page 20-205).
2. Lift and support the engine with a jack and a wood block under the transmission.
3. Remove the lower transmission mount bracket (A), then remove the lower transmission mount (B).

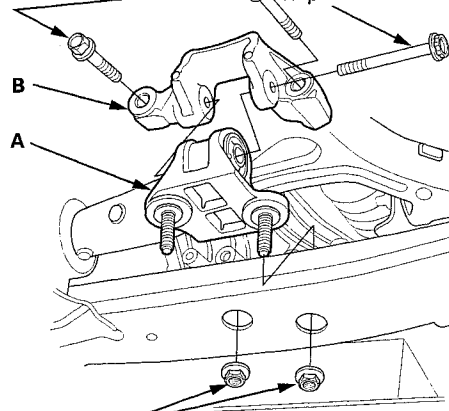


Installation-M/T model

1. Install the lower transmission mount (A).

10 x 1.25 mm
54 N·m (5.5 kgf·m, 40 lbf·ft)
Replace.

10 x 1.25 mm
54 N·m (5.5 kgf·m, 40 lbf·ft)
Replace.



10 x 1.25 mm
44 N·m (4.5 kgf·m, 33 lbf·ft)

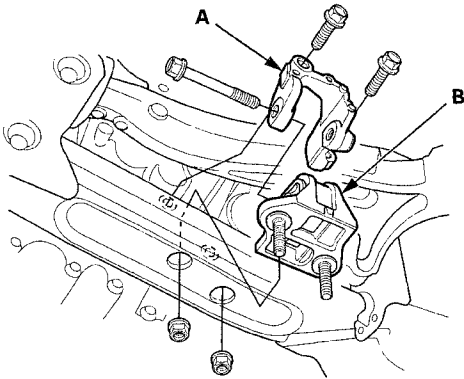
2. Loosely install the lower transmission mount bracket (B).
3. Remove the jack and the wood block.
4. Tighten the lower transmission mount bracket mounting bolts and the lower transmission mount mounting nuts.
5. Install the splash shield (see page 20-205).

Engine Assembly

Lower Transmission Mount Removal and Installation (cont'd)

Removal-A/T model

1. Remove the splash shield (see page 20-205).
2. Lift and support the engine with a jack and a wood block under the transmission.
3. Remove the lower transmission mount bracket (A), then remove the lower transmission mount (B).

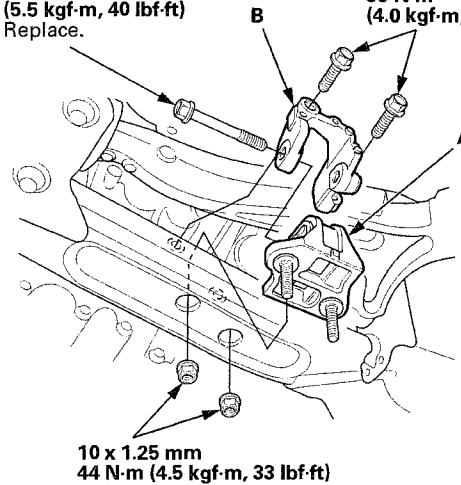


Installation-A/T model

1. Install the lower transmission mount (A).

**10 x 1.25 mm
54 N·m
(5.5 kgf·m, 40 lbf·ft)
Replace.**

**10 x 1.25 mm
39 N·m
(4.0 kgf·m, 29 lbf·ft)**



2. Loosely install the lower transmission mount bracket (B).
3. Remove the jack and the wood block.
4. Tighten the lower transmission mount bracket mounting bolts and the lower transmission mount mounting nuts.
5. Install the splash shield (see page 20-205).