Full download http://manualplace.com/download/honda-cr-v-2007-2009-engine-mechanical-service-repair-manual/

1

Engine Mechanical

Engine Assembly

Special Tools	5-2
Engine Removal	5-3
Engine Installation	5-12
Side Engine Mount Replacement	5-22
Transmission Mount Replacement	5-24
Lower Torque Rod Replacement	5-26
Upper Torque Rod Replacement	5-27
Side Engine Mount Bracket Replacement	5-28

Special Tools

Ref. No.	Tool Number	Description	Qty
1	07AAK-SNAA120	Universal Eyelet	1



1



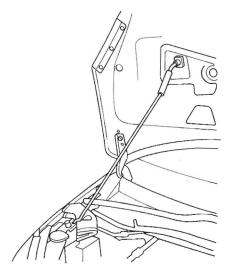
Engine Removal

Special Tools Required

- Universal eyelet 07AAK-SNAA120
- Engine hanger adapter VSB02C000015 *
- Front subframe adapter VSB02C000016 *
- CR-V engine hanger adapter VSB02C000032 *
- Engine support hanger, A and Reds AAR-T-12566 *
- *: Available through American Honda Tool and Equipment Program, 1-888-424-6857

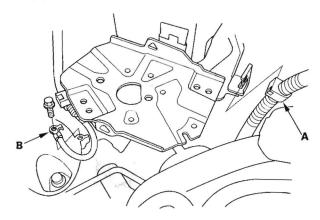
NOTE:

- 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.
- Make sure you have the anti-theft code for the audio system and the navigation system (if equipped), then write down the XM radio presets.
- 2. Remove the hood support rod, then use it as shown to prop the hood in the wide-open position.

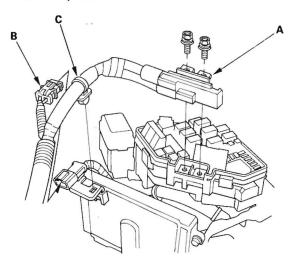


- 3. Relieve the fuel pressure (see page 11-317).
- 4. Disconnect the negative cable from the battery first, then disconnect the positive cable.
- 5. Remove the battery.

- 6. Remove the air cleaner housing assembly (see page 11-340).
- Remove the harness clamp (A) and ground cable (B).



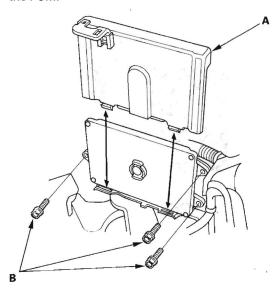
8. Remove the battery cables (A) from the under-hood fuse/relay box.



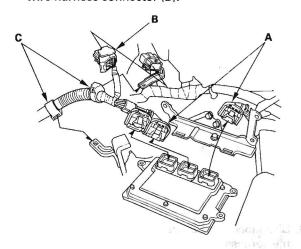
Disconnect the harness connector (B), and remove the harness clamp (C).

Engine Removal (cont'd)

Remove the powertrain control module (PCM)
cover (A), then remove the three bolts (B) securing
the PCM.

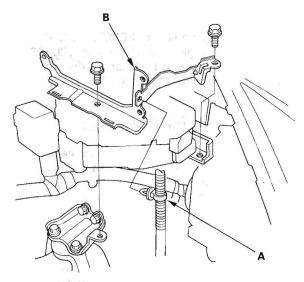


11. Disconnect the PCM connectors (A) and the engine wire harness connector (B).

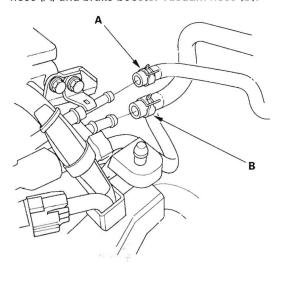


12. Remove the harness clamps (C).

13. Remove the harness clamp (A), then remove the PCM bracket (B).

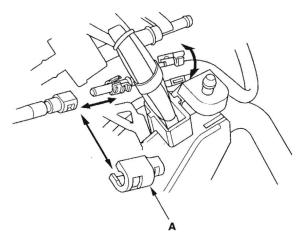


14. Remove the evaporative emission (EVAP) canister hose (A) and brake booster vacuum hose (B).

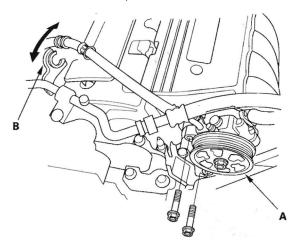




15. Remove the quick-connect fitting cover (A), then disconnect the fuel feed hose (see page 11-324).

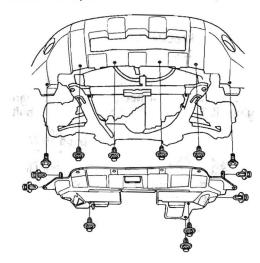


- 16. Remove the drive belt (see page 4-29).
- 17. Remove the power steering (P/S) pump (A) without disconnecting the P/S hoses, then remove the P/S hose from the clamp (B).



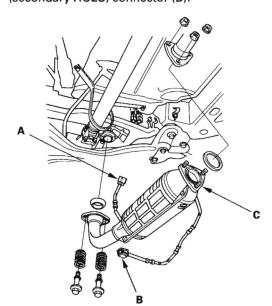
- 18. Remove the radiator cap.
- 19. Raise the vehicle on the lift to full height.
- 20. Remove the front wheels.

21. Remove the splash shield.



17 1 X 1867 -17

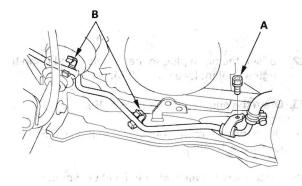
- 22. Loosen the drain plug in the radiator, and drain the engine coolant (see page 10-6).
- 23. Drain the engine oil (see page 8-10).
- 24. Drain the automatic transmission fluid (ATF) (see page 14-239).
- Disconnect the air fuel ratio (A/F) sensor connector
 (A) and secondary heated oxygen sensor
 (secondary HO2S) connector (B).



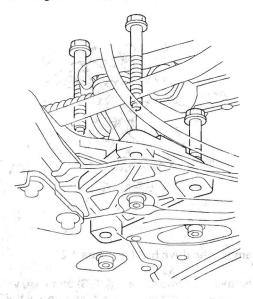
26. Remove the three way catalytic converter (TWC) (C).

Engine Removal (cont'd)

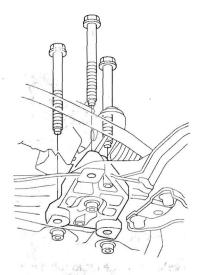
- 27. Remove the shift cable (see step 34 on page 14-251).
- 28. Separate the knuckles from the lower arms (see page 18-12).
- 29. Remove the driveshafts (see step 7 on page 16-5). Coat all precision-finished surfaces with clean engine oil. Tie plastic bags over the driveshaft ends.
- 30. Remove the propeller shaft (see page 16-40).
- 31. Remove the bolt (A) securing the P/S fluid line bracket, and unclamp the P/S fluid line clamps (B) on the front subframe.



32. Remove the bolts securing the left steering gearbox mounting bracket.



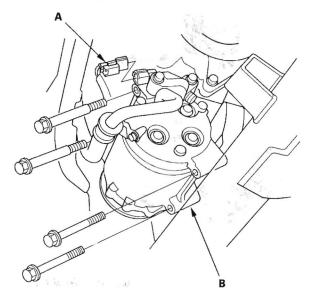
 Remove the bolts securing the right steering gearbox mounting brackets.



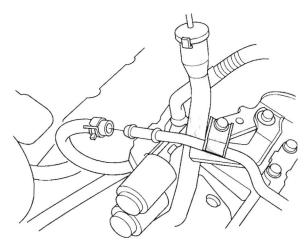
With a supplied



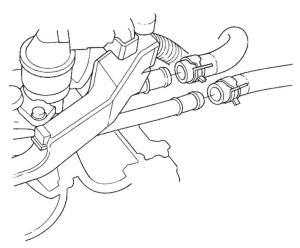
34. Disconnect the A/C compressor clutch connector (A), then remove the A/C compressor (B) without disconnecting the A/C hoses.



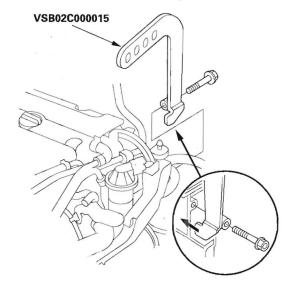
- 35. Lower the vehicle on the lift.
- 36. Remove the radiator (see page 10-18).
- 37. Remove the ATF cooler hose, then plug the line and hose.



38. Remove the heater hoses.

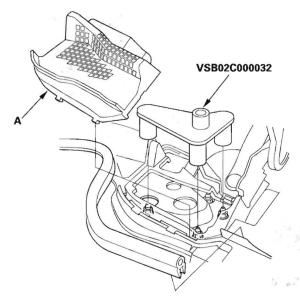


- 39. Install the front bulkhead (see step 16 on page 10-20).
- 40. Attach the special tool adapter (VSB02C000015) to the threaded hole (A) in the cylinder head.



Engine Removal (cont'd)

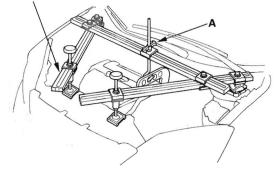
41. Remove both lids (A) from the cowl cover. Position the engine hanger adapters (VSB02C000032) over the damper flange nuts.



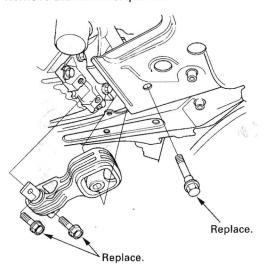
42. Install the engine support hanger (AAR-T-12566), then attach the hook to the slotted hole in the hanger adapter. Tighten the wing nut (A) by hand to lift and support the engine/transmission assembly.

NOTE: Be careful when working around the windshield.

AAR-T-12566

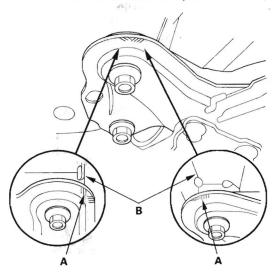


- 43. Raise the lift to full height.
- 44. Remove the lower torque rod.



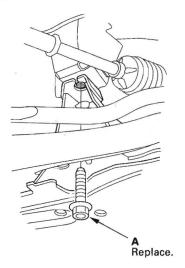
neming 4.1

45. Make the appropriate reference lines (A) at both ends of the subframe that line up with the body (B).

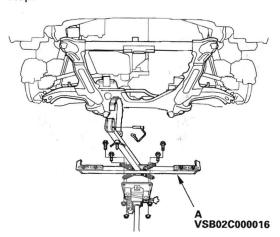




46. Remove the subframe mounting bolts (A) on both sides.

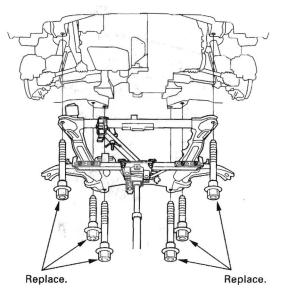


47. Attach the subframe adapter (A) to the subframe and hang the belt of the subframe adapter over the front of the subframe, then secure the belt with its stop.

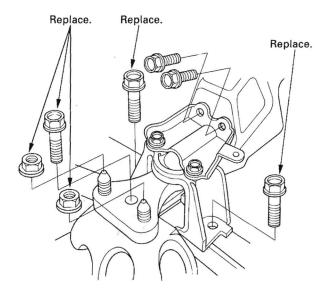


48. Raise the jack and line up the slots in the arms with the bolt holes on the corner of the jack base, then attach them with bolts securely.

49. Remove the subframe.



- 50. Lower the vehicle on the lift.
- 51. Remove the transmission mount.

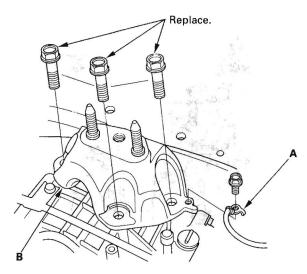


Full download: http://manualplace.com/download/honda-cr-v-2007-2009-engine-mechanical-service-repair-manual/

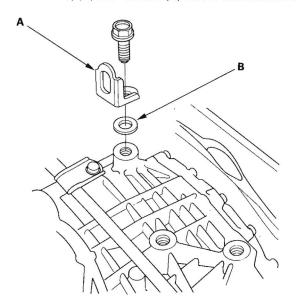
Engine Assembly

Engine Removal (cont'd)

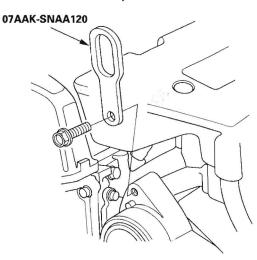
52. Remove the ground cable (A), then remove the transmission mount bracket (B).



53. Install the transmission hanger bracket (P/N 21232-RCT-A00) (A) and washer (B) on the transmission.



54. Install the universal eyelet.



55. Attach a chain hoist (A) to the universal eyelet (B), and the transmission hook (C). Lift up on the engine /transmission assembly until it's securely supported by the chain hoist, and remove the engine support hanger.

