

2005-08 ENGINE

Intake Manifold and Exhaust System - RL

INTAKE MANIFOLD REMOVAL AND INSTALLATION

EXPLODED VIEW

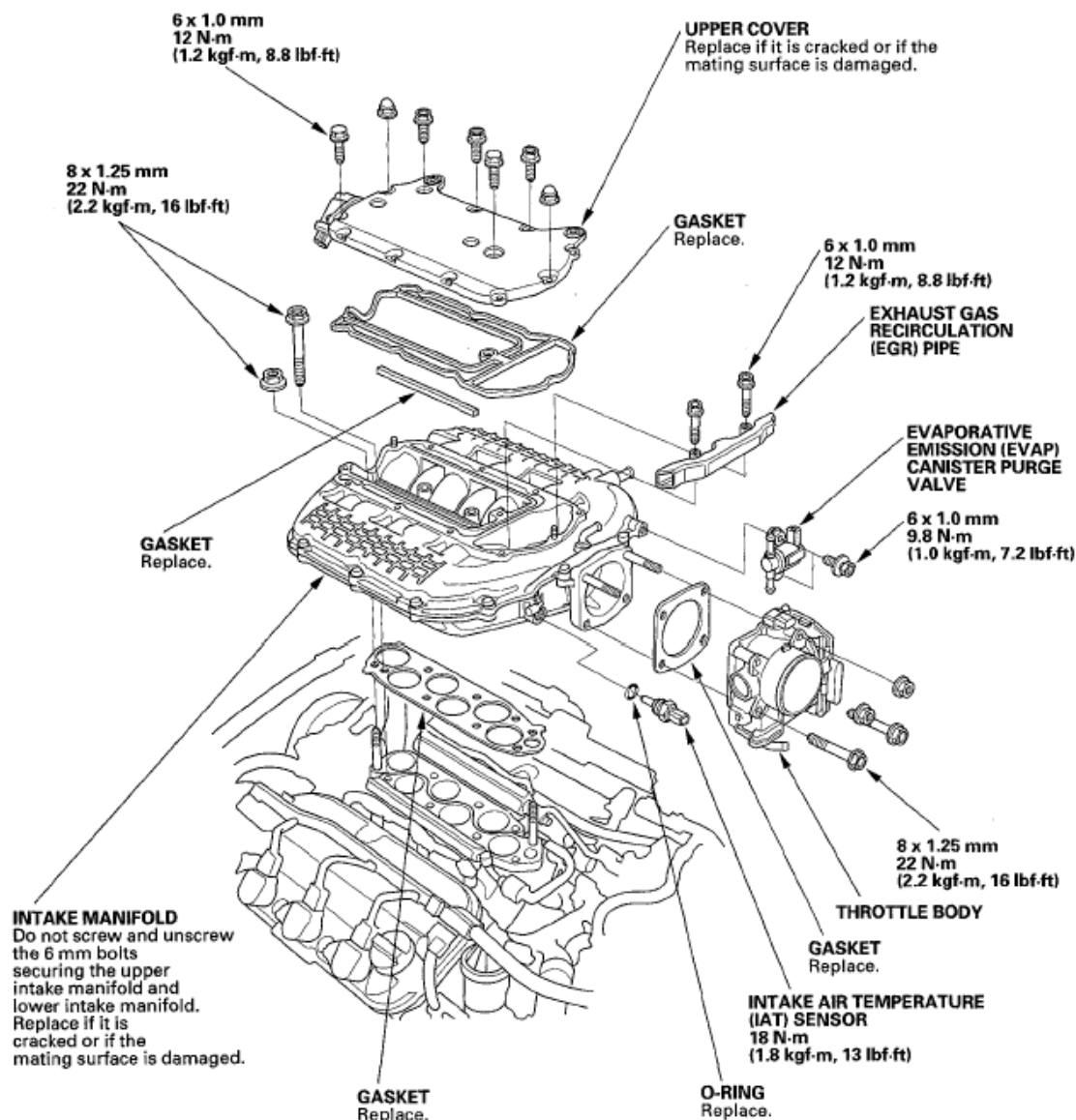


Fig. 1: Exploded View Of Intake Manifold With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

REMOVAL

1. Remove the engine cover.

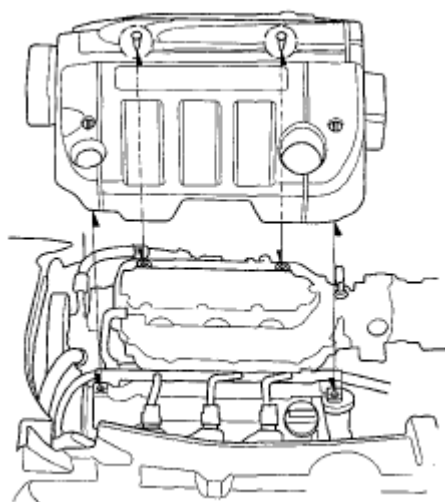


Fig. 2: Identifying Engine Cover

Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the air intake duct (see **THROTTLE BODY REMOVAL/INSTALLATION**).
3. Disconnect the positive crankcase ventilation (PCV) hose (A), brake booster vacuum hose (B), and vacuum hose (C).

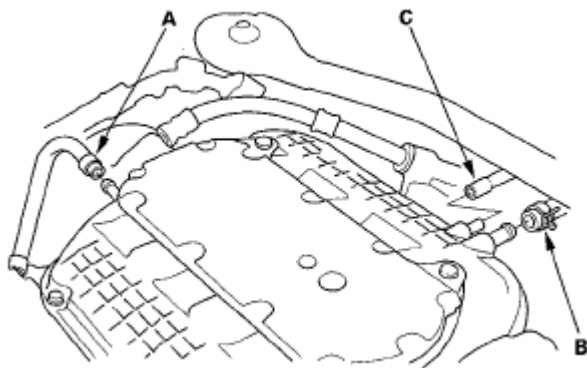


Fig. 3: Identifying Positive Crankcase Ventilation Hose, Brake Booster Vacuum Hose And Vacuum Hose

Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Disconnect the evaporative emission (EVAP) canister purge hose (A) and water bypass hoses (B), then plug the water bypass hoses.

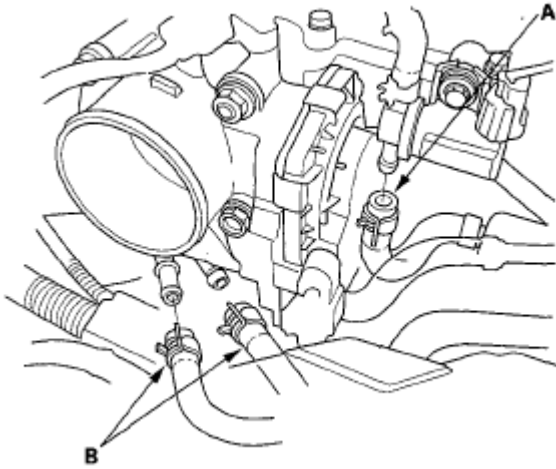


Fig. 4: Identifying Evaporative Emission Canister Purge Hose And Water Bypass Hoses
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the engine wire harness connectors and wire harness clamps from the intake manifold.
 - Intake air temperature (IAT) sensor connector
 - Throttle actuator connector
 - Manifold absolute pressure (MAP) sensor connector
 - Evaporative emission (EVAP) canister purge valve connector
 - Intake manifold tuning (IMT) valve actuator connector
6. Remove the upper cover mounting bolts and nuts sequentially in three steps, remove the upper cover.

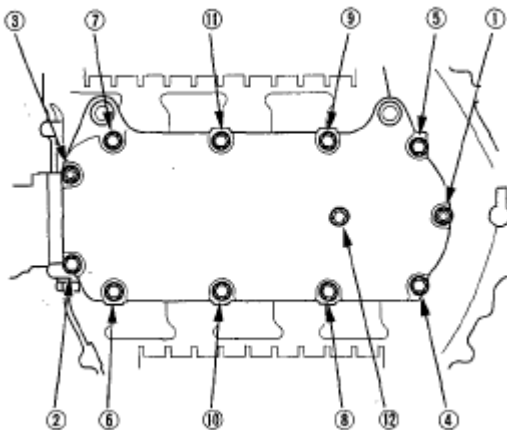


Fig. 5: Identifying Removal Sequence Of Intake Manifold Upper Cover Mounting Bolts And Nuts
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Remove the intake manifold mounting bolts and nuts sequentially in three steps.

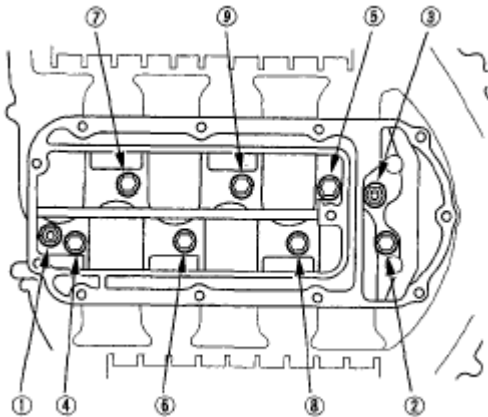


Fig. 6: Identifying Removal Sequence Of Intake Manifold Mounting Bolts And Nuts
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

8. Remove the intake manifold.

NOTE: Do not screw and unscrew the 6 mm bolts securing the upper intake manifold and lower intake manifold.

INSTALLATION

1. Install the intake manifold. Tighten the bolts and nuts sequentially in three steps. Always use a new intake manifold gasket.

Specified Torque

8 x 1.25 mm: 22 N.m (2.2 kgf.m, 16 lbf.ft)

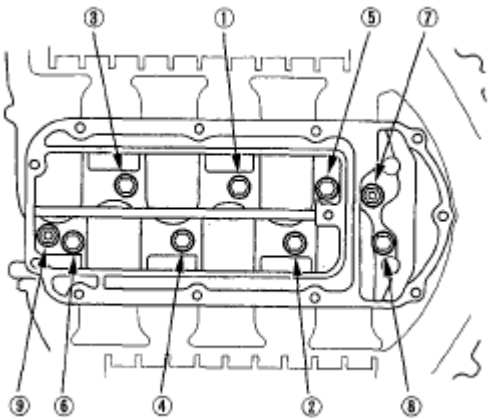


Fig. 7: Identifying Tightening Sequence Of Intake Manifold Mounting Bolts And Nuts
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Install the upper cover. Tighten the bolts and nuts sequentially in three steps. Always use a new gasket.

Specified Torque

6x 1.0 mm: 12 N.m (1.2 kgf.m, 8.8 lbf.ft)

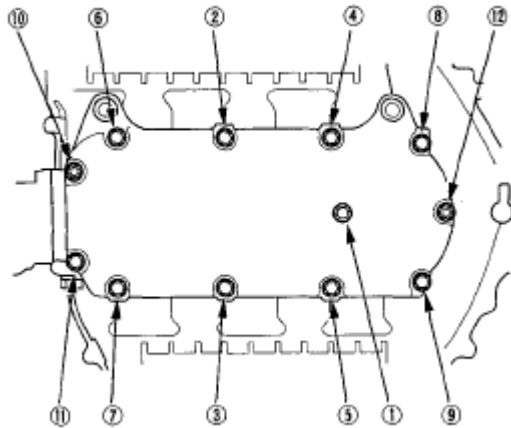


Fig. 8: Identifying Tightening Sequence Of Upper Cover Mounting Bolts And Nuts
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Install the EVAP canister purge hose (A) and water bypass hoses (B).

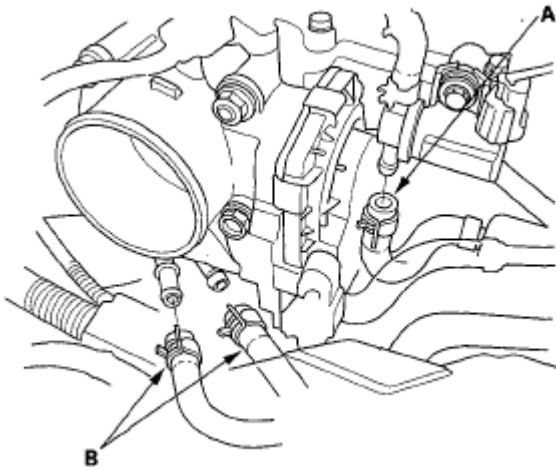


Fig. 9: Identifying Evaporative Emission Canister Purge Hose And Water Bypass Hoses
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Install the positive crankcase ventilation (PCV) hose (A), brake booster vacuum hose (B), and vacuum hose (C).

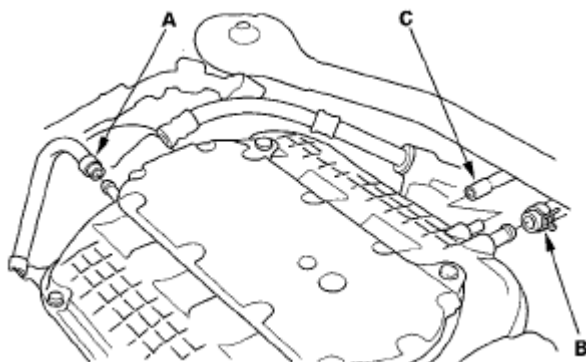


Fig. 10: Identifying Positive Crankcase Ventilation Hose, Brake Booster Vacuum Hose And Vacuum Hose

Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Connect the engine wire harness connectors, and install the wire harness clamps to the intake manifold.
 - IAT sensor connector
 - Throttle actuator connector
 - MAP sensor connector
 - EVAP canister purge valve connector
 - IMT valve actuator connector
6. Install the intake air duct (see **THROTTLE BODY REMOVAL/INSTALLATION**).
7. Clean up any spilled engine coolant.
8. After installation, check that all tubes, hoses, and connectors are installed correctly.
9. Install the engine cover.

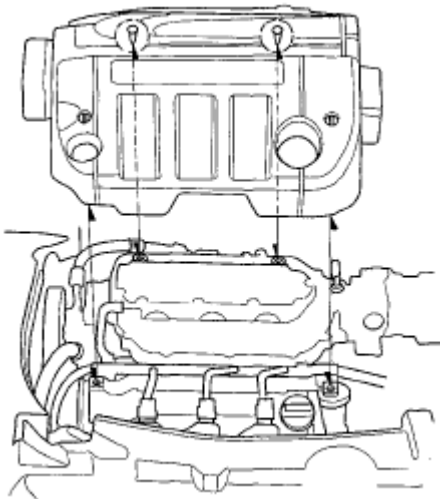


Fig. 11: Identifying Engine Cover

Courtesy of AMERICAN HONDA MOTOR CO., INC.

10. Refill the radiator with engine coolant, then bleed air from the cooling system with the heater valve open (see step 8 under **COOLANT CHECK**).

EXHAUST PIPE AND MUFFLER REPLACEMENT

NOTE: Use new gaskets and self-locking nuts when reassembling.

2007 Acura RL

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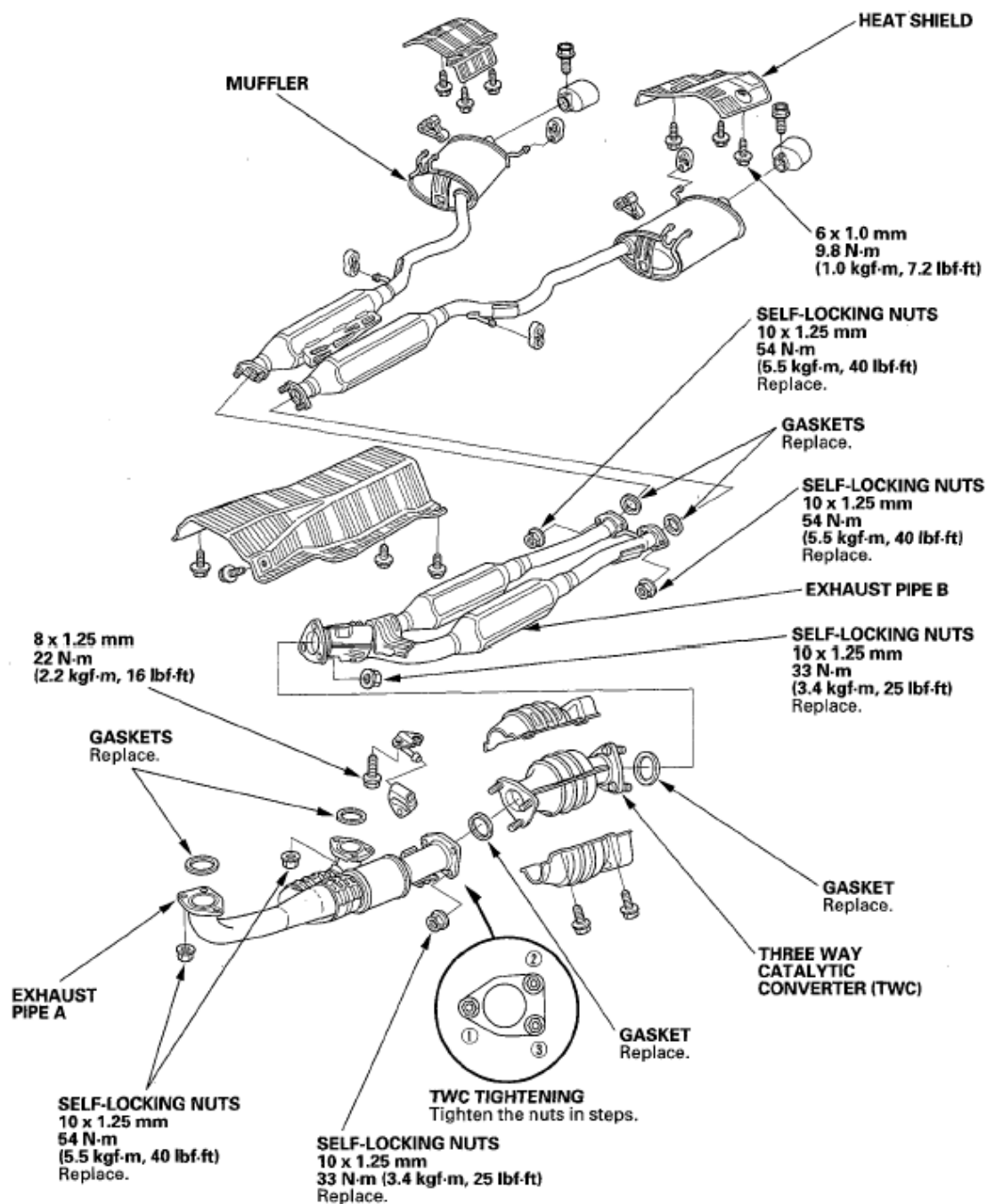


Fig. 12: Identifying Exhaust Pipe And Muffler Components With Torque Specification
Courtesy of AMERICAN HONDA MOTOR CO., INC.