

2007-2008 ENGINE

Intake Manifold and Exhaust System - TL

INTAKE MANIFOLD REMOVAL AND INSTALLATION

EXPLODED VIEW

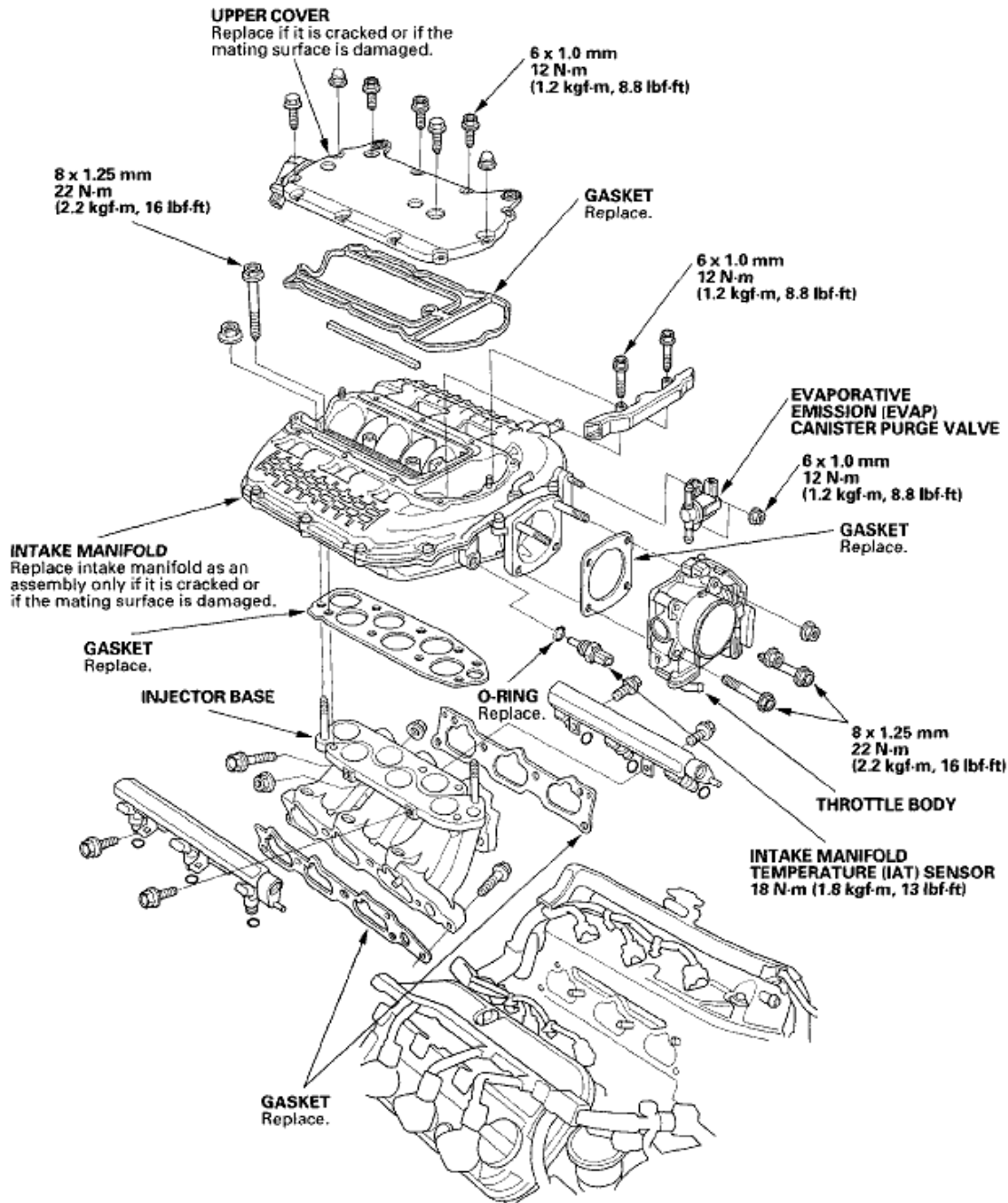


Fig. 1: Exploded View Of Intake Manifold And Exhaust System With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

REMOVAL

1. Remove the engine cover.

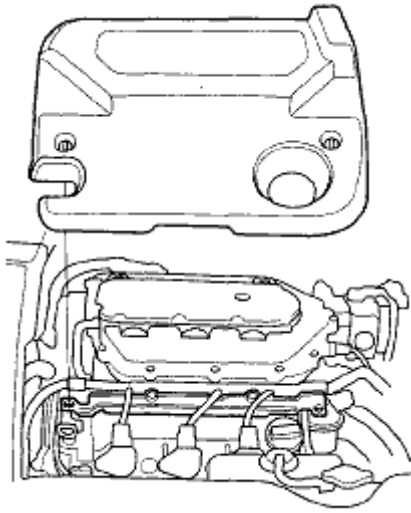


Fig. 2: Identifying Engine Cover

Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the intake air duct (see step 10 in **ENGINE REMOVAL**).
3. Disconnect the vacuum hose (A), positive crankcase ventilation (PCV) hose (B), and brake booster vacuum hose (C).

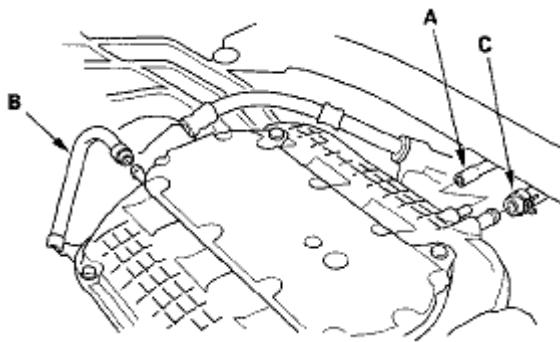


Fig. 3: Identifying Vacuum Hose And Positive Crankcase Ventilation Hose

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.

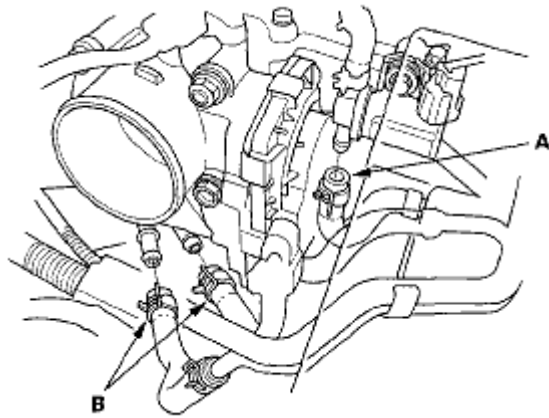


Fig. 4: Identifying Evaporative Emission Canister Purge Hose And Water Bypass Hoses
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove these wire harness connectors and their 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) actuator connector
6. Remove the upper cover mounting bolts and nuts sequentially in three steps, then remove the upper cover.

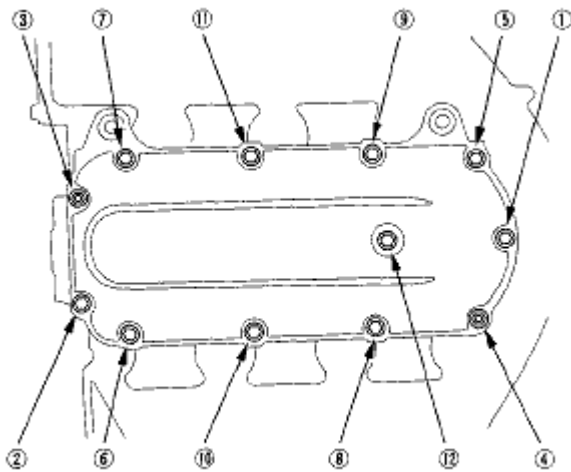


Fig. 5: Identifying Upper Cover Mounting Bolts And Nuts Removing Sequence
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

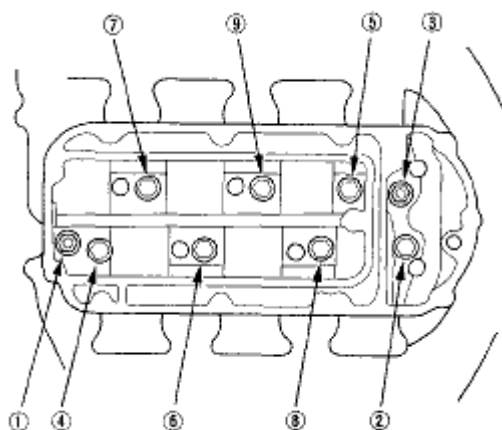


Fig. 6: Identifying Intake Manifold Mounting Bolts And Nuts Removing Sequence
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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)

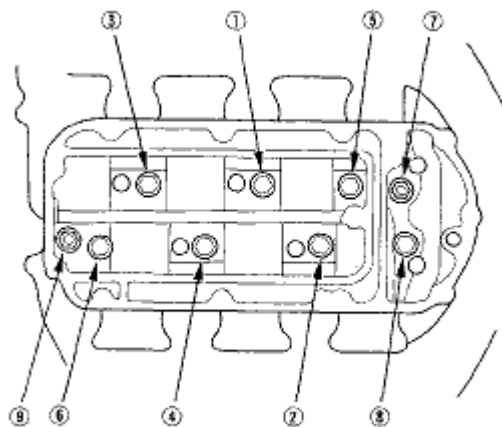


Fig. 7: Identifying Intake Manifold Bolts And Nuts Tightening Sequence
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

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

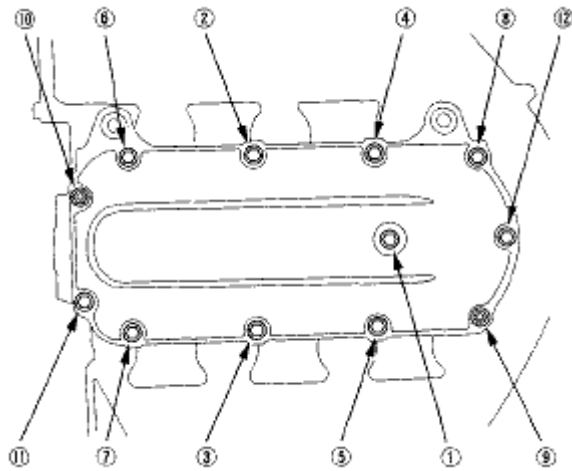


Fig. 8: Identifying Upper Cover Bolts And Nuts Tightening Sequence
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Reinstall the wire harness connectors and their clamps to the intake manifold.
4. Install the EVAP canister purge hose (A) and water bypass hoses (B).

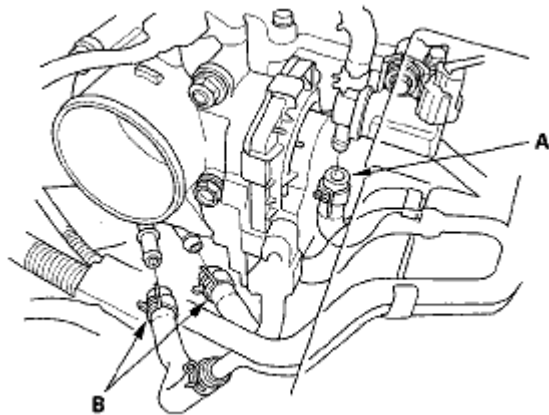


Fig. 9: Identifying EVAP Canister Purge Hose And Water Bypass Hoses
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Install the vacuum hose (A), PCV hose (B), and brake booster vacuum hose (C).

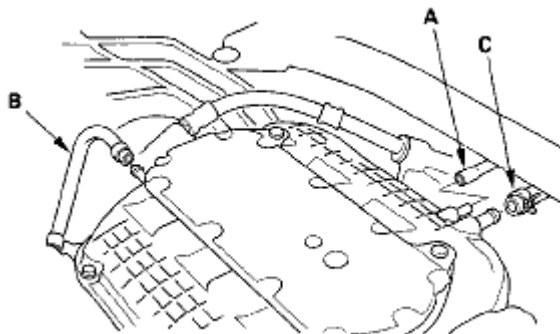


Fig. 10: Identifying Vacuum Hose, PCV Hose Brake Booster Vacuum Hose
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Install the intake air duct (see step 64 in **ENGINE 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.

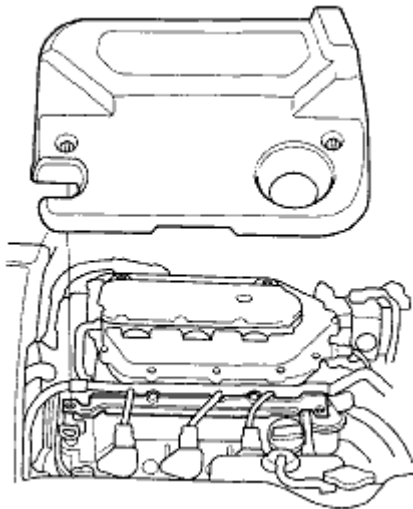


Fig. 11: Identifying Engine Cover

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 in **COOLANT REPLACEMENT**) .

INJECTOR BASE REMOVAL AND INSTALLATION

REMOVAL

1. Relieve the fuel pressure (see **FUEL PRESSURE RELIEVING**).
2. Remove the power steering (P/S) pump and P/S hose bracket (see step 8 in **CYLINDER HEAD REMOVAL**).
3. Remove the intake manifold (see **REMOVAL**).
4. Remove the injectors (see **INJECTOR REPLACEMENT**).
5. Remove the harness bracket mount bolt (A) and disconnect the knock sensor connector (B).

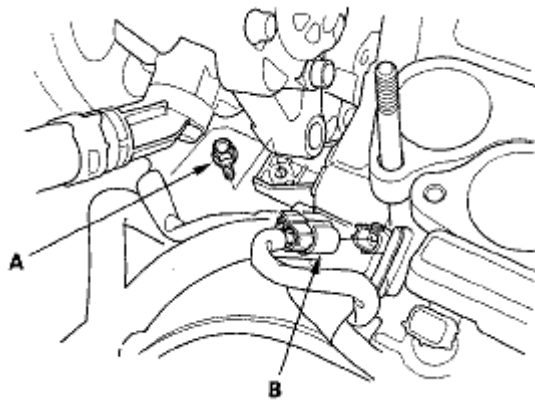


Fig. 12: Identifying Harness Bracket Mount Bolt And Knock Sensor Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Remove the injector base mount bolts/nuts (A), then remove the front injector base (B) and rear injector base (C).

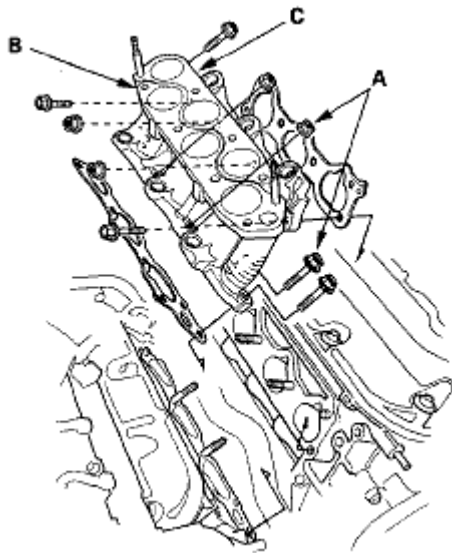


Fig. 13: Identifying Injector Base Mount Bolts/Nuts And Front Injector Base
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

INSTALLATION

1. Install the front injector base (A) and rear injector base (B) with new gaskets (C), and tighten the bolts/ nuts (D) in a crisscross pattern in three steps, beginning with the inner nuts.

NOTE: The front injector base gasket is different from the rear one. Do not mix injector base gasket types.

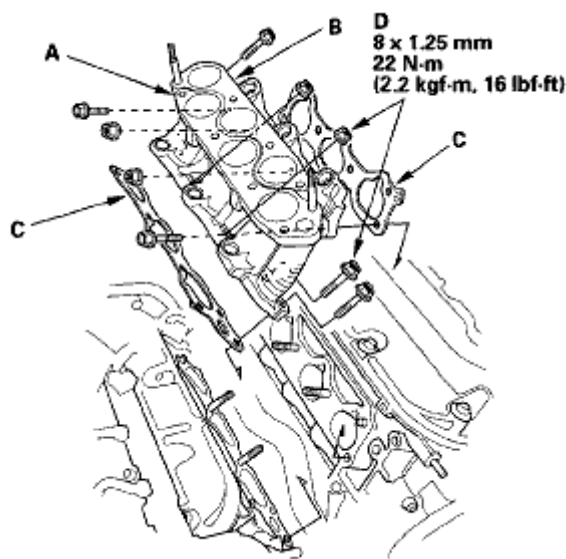


Fig. 14: Identifying Front Injector Base And Rear Injector Base With Torque Specification
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Connect the knock sensor connector (A) and install the harness bracket mount bolt (B).

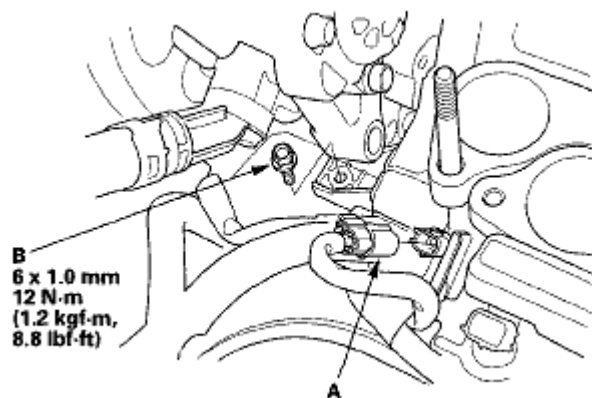


Fig. 15: Identifying Knock Sensor Connector And Harness Bracket Mount Bolt With Torque Specification
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Install the injectors (see **INJECTOR REPLACEMENT**).
4. Install the intake manifold (see **INSTALLATION**).
5. Install the P/S pump and P/S hose bracket (see step 25 in **CYLINDER HEAD INSTALLATION**).
6. Turn the ignition switch ON (II), but do not operate the starter. After the fuel pump runs for about 2 seconds, the fuel lines will be pressurized. Repeat this three times, then check for fuel leaks.

EXHAUST PIPE AND MUFFLER REPLACEMENT

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

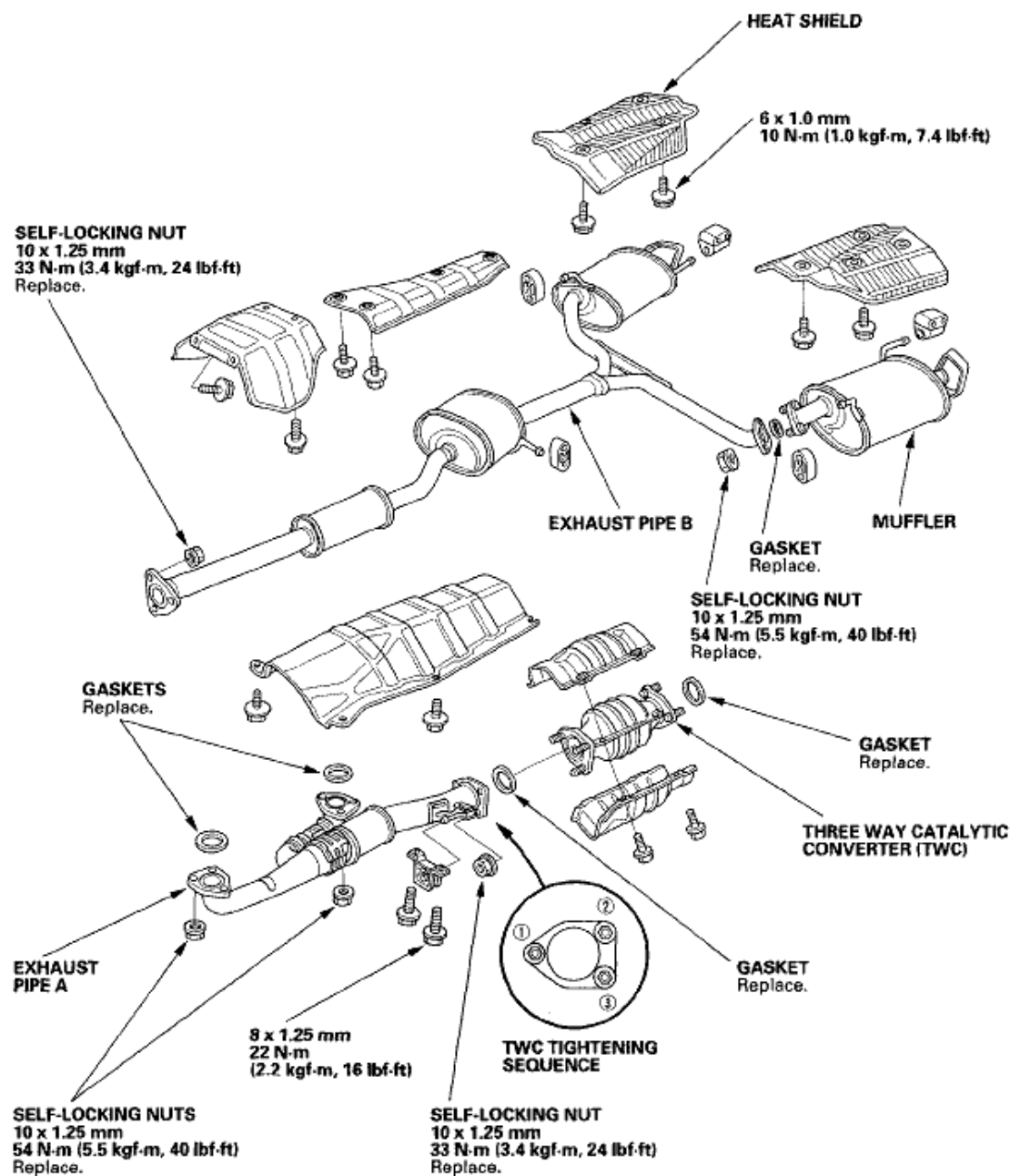


Fig. 16: Identifying Exhaust Pipe And Muffler Components - J32A3 Engine With Torque Specifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

J35A8 ENGINE

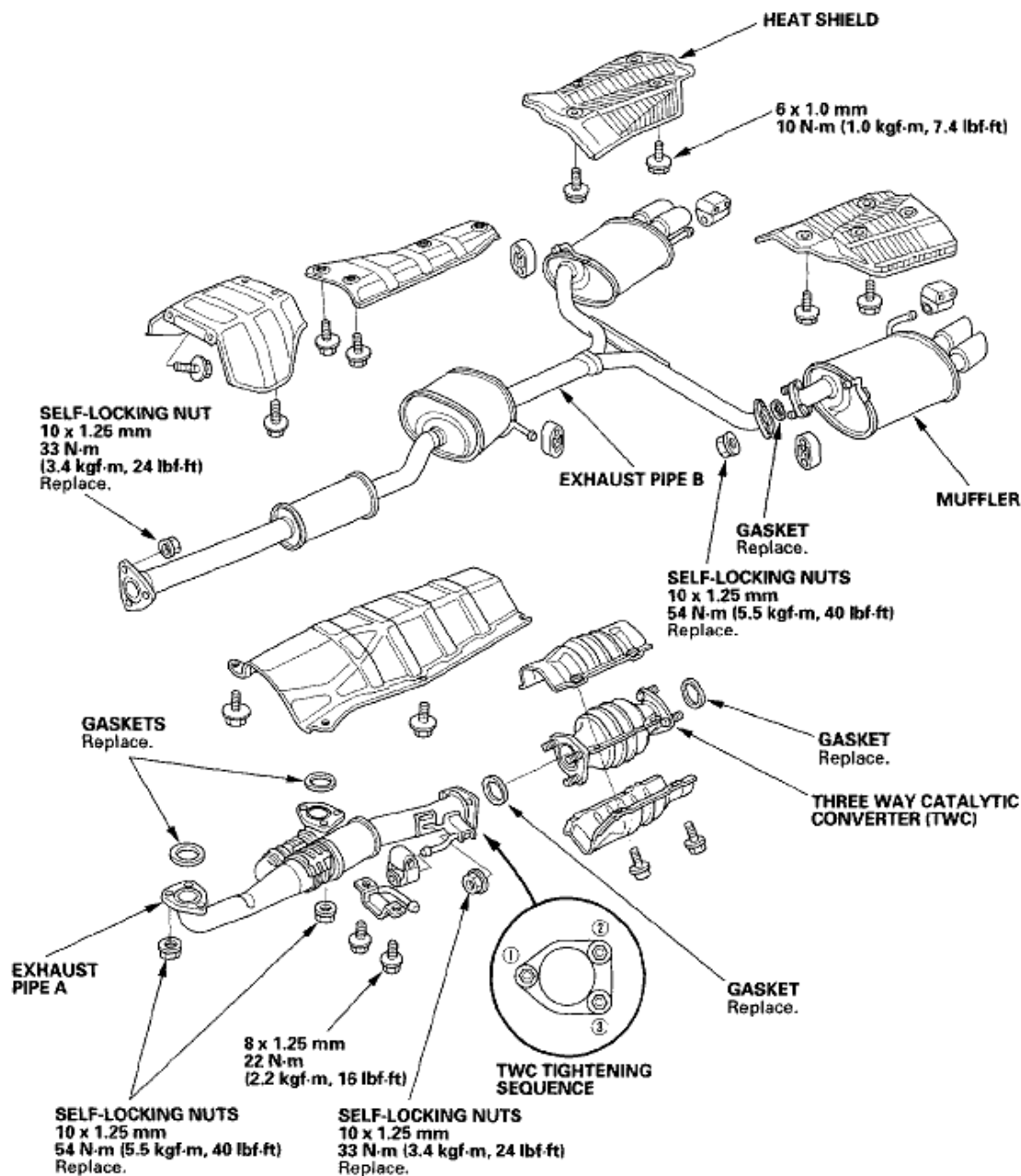


Fig. 17: Identifying Exhaust Pipe And Muffler Components - J35A8 Engine With Torque Specifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.