2000-06 SUSPENSION

Rear Suspension - Insight

HUB BEARING UNIT REPLACEMENT

EXPLODED VIEW

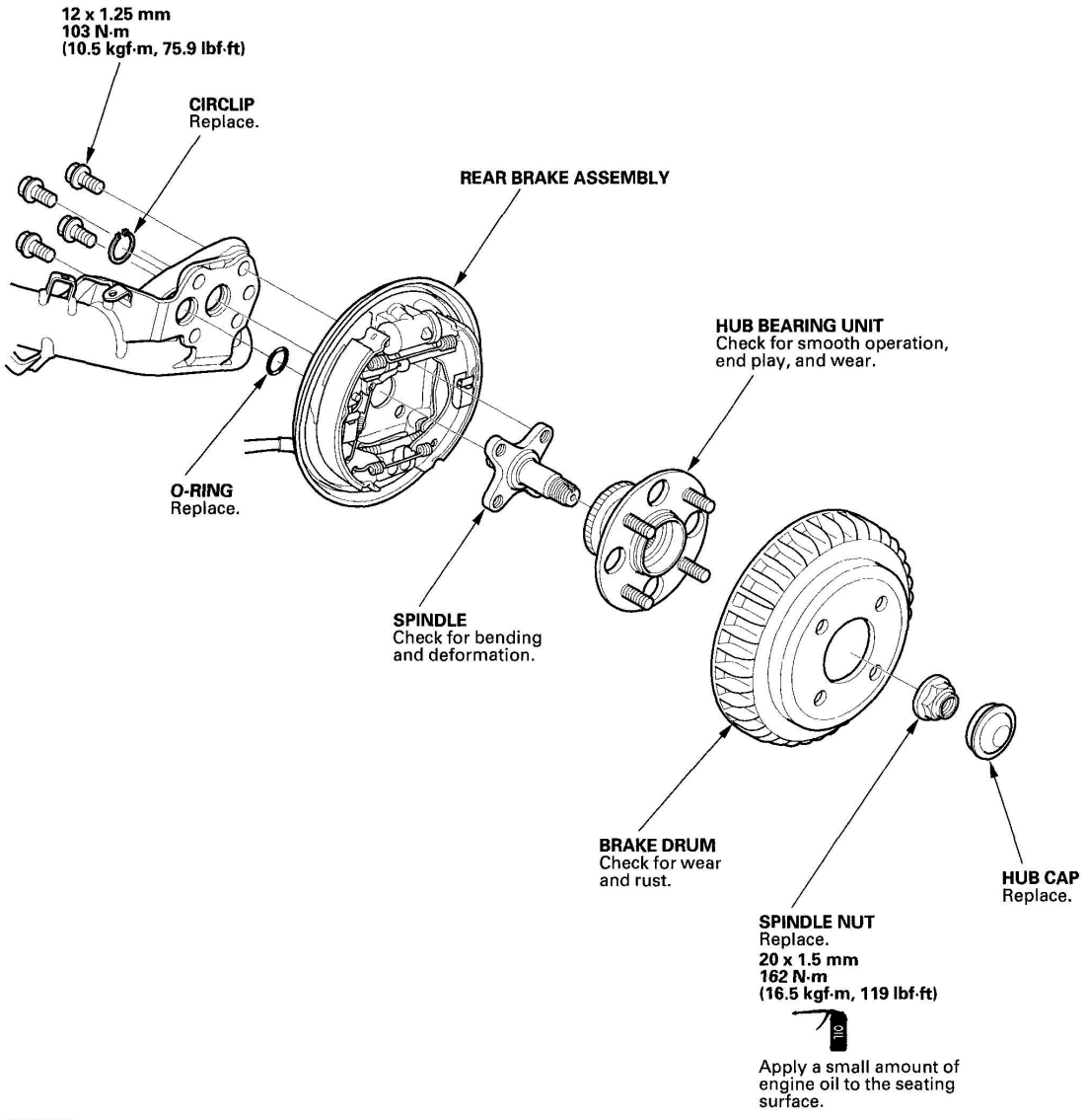

Fig. 1: Exploded View Of Rear Suspension And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

NOTE: To avoid damage, do not strike aluminum parts with a metal hammer. If necessary, tap gently with a plastic-tipped hammer.

NOTE: Bolts and nuts with the * mark are special corrosion-resistant Dacro fasteners. Use the same type if replacement is necessary.

1. Raise the rear of the vehicle, and support it with safety stands in the proper locations (see **SAFETY STANDS**).
2. Remove the fender skirt (see **REAR INNER FENDER REPLACEMENT**).
3. Remove the center cap (A), wheel nuts (B), and rear wheel (C).

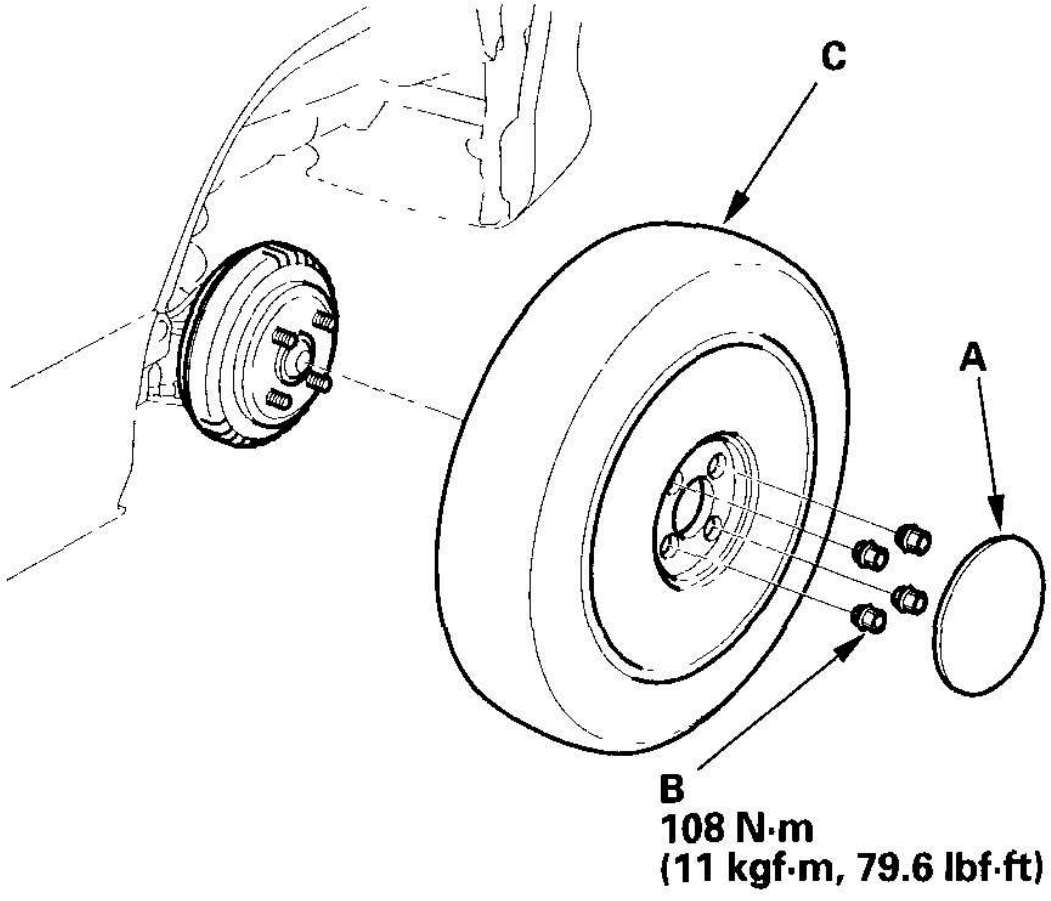

Fig. 2: Removing Center Cap, Wheel Nuts And Rear Wheel With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the hub cap (A), raise the stake (B), and remove the spindle nut (C).

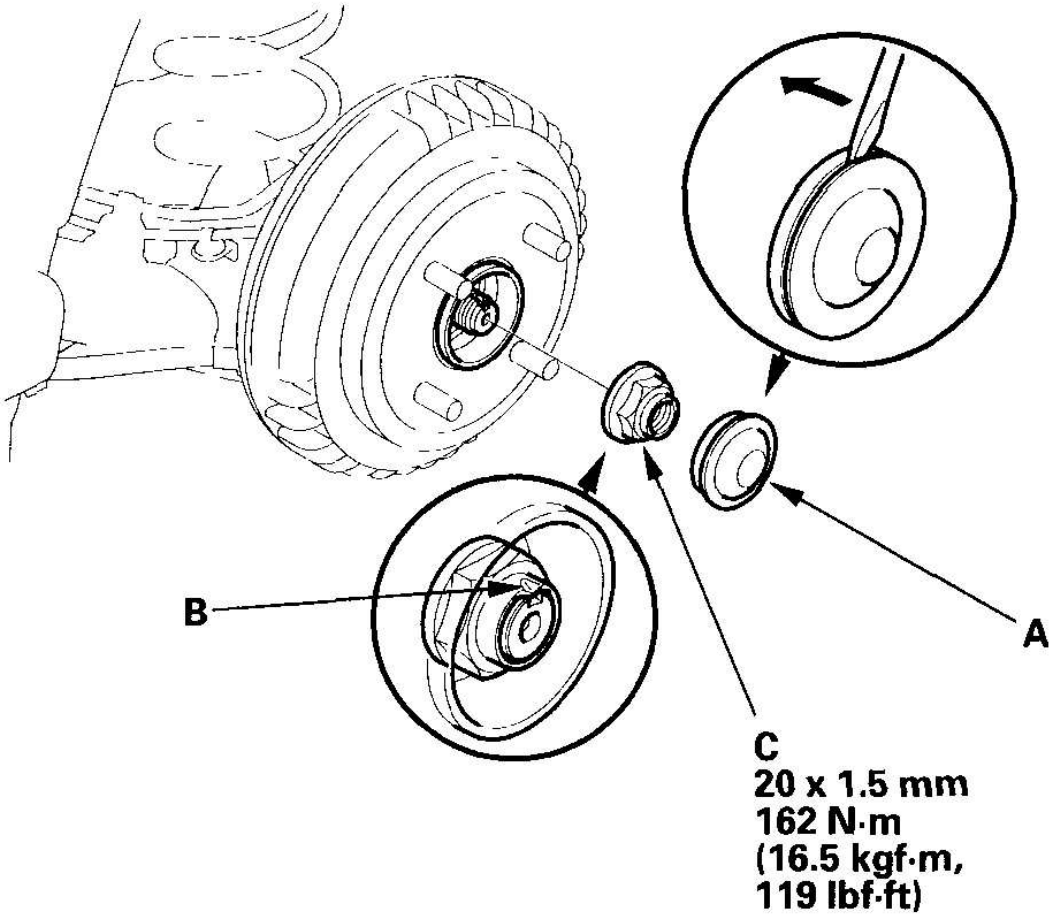

Fig. 3: Removing Hub Cap, Raise Stake And Spindle Nut With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the brake drum (A), and remove the hub bearing unit (B) from the spindle. If the brake drum is stuck to the hub bearing unit, remove them together as an assembly. Do not tap on the aluminum brake drum.

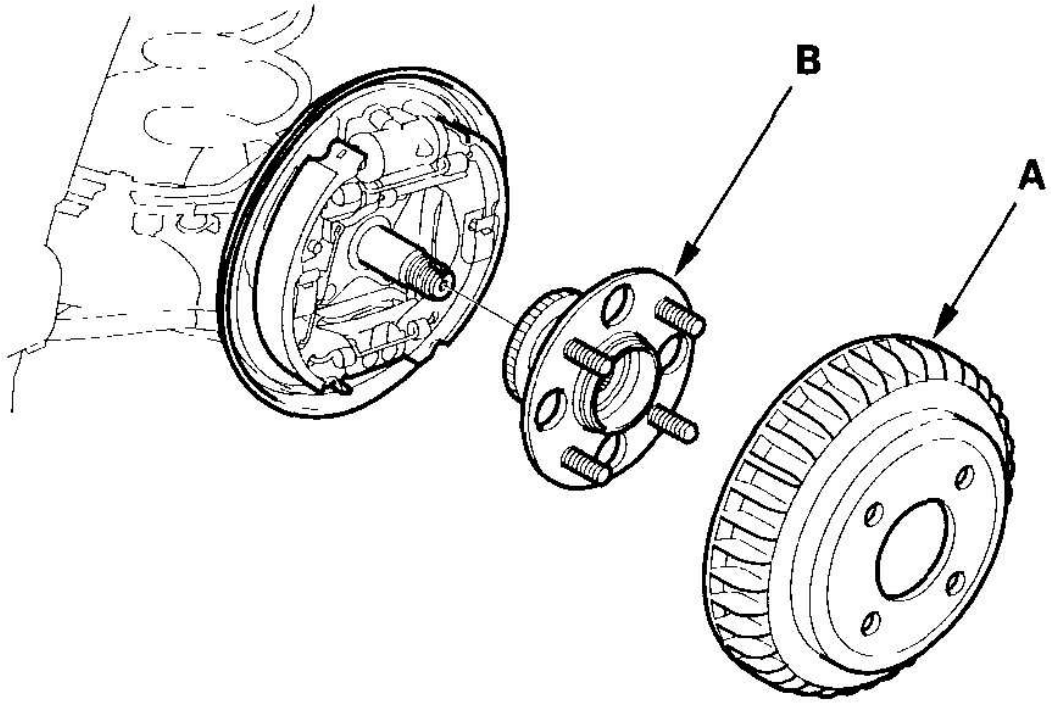

Fig. 4: Removing Brake Drum And Hub Bearing Unit From Spindle
Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. If the hub bearing unit has been removed together with the brake drum, separate these by placing the brake drum on a flat surface, and lightly tapping the hub flange (A) with a plastic hammer.

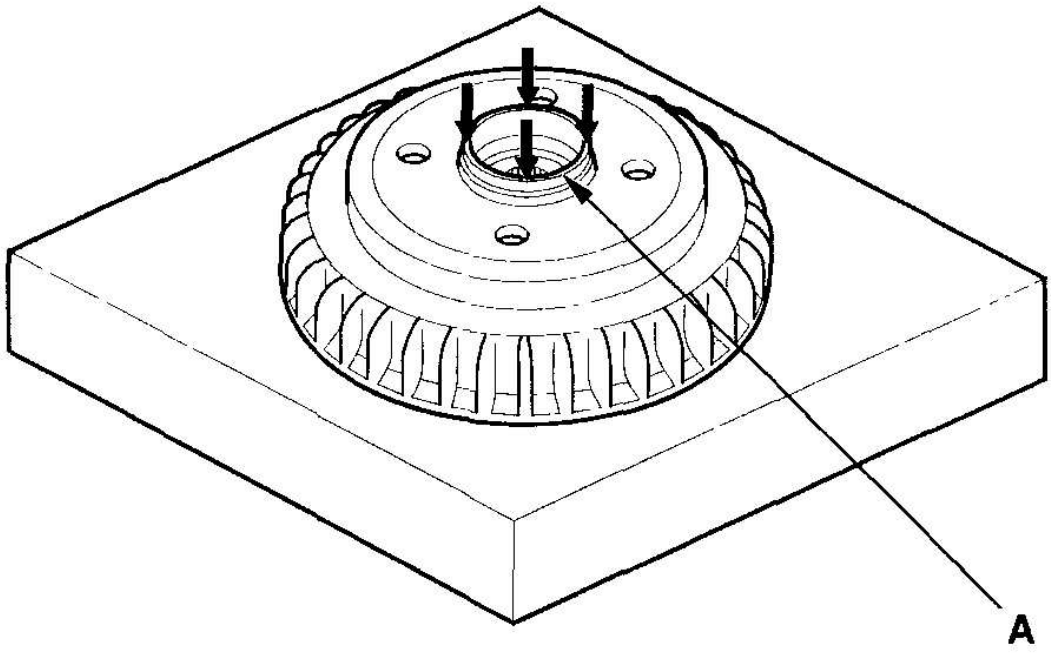

Fig. 5: Identifying Hub Flange With Plastic Hammer
Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Install the hub bearing unit in the reverse order of removal, and note these items:
   - Use a new spindle nut on reassembly.
   - Before installing the new spindle nut, apply a small amount of engine oil to the seating surface of the nut. After tightening, use a drift to stake the spindle nut shoulder against the spindle.
   - Tighten all mounting hardware to the specified torque values.
   - Before installing the brake drum, clean the mating surface of the hub and the inside of the brake drum, and apply grease (Dow Corning Molykote M-77 assembly paste) to the inside circumference (A) of the center hole edge of the brake drum. Do not contaminate the brake drum sliding surface with grease.
   - Use a new hub cap on reassembly.

- Before installing the wheel, clean the mating surface of the brake drum and the inside of the wheel.

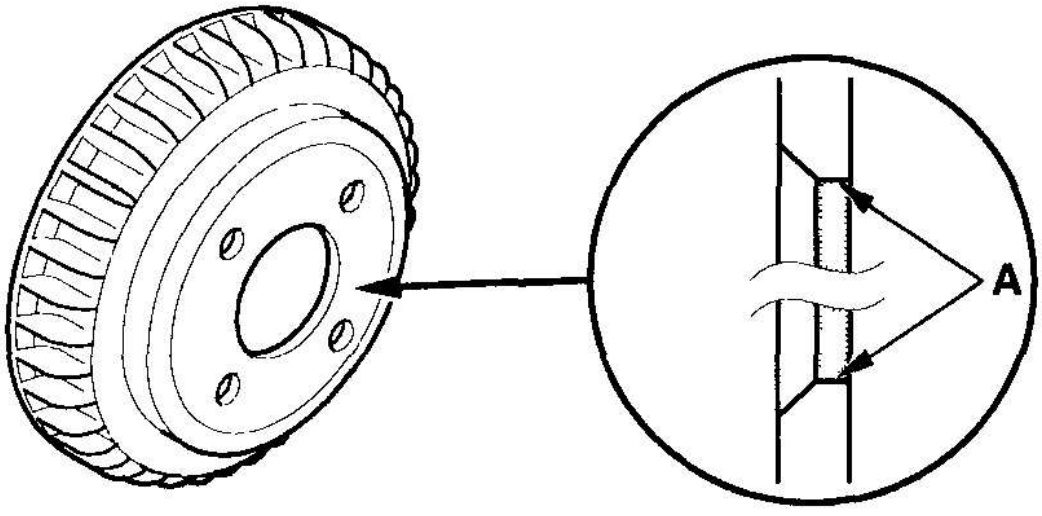

Fig. 6: Installing Hub Bearing Unit
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SPRING/BUMP STOP REPLACEMENT

NOTE:

- **Bolts and nuts with the * mark are special corrosion-resistant Dacro fasteners. Use the same type if replacement is necessary.**
- **The illustrations show left side of the vehicle.**

1. Raise the rear of the vehicle, and support it with safety stands in the proper locations (see **SAFETY STANDS**). Remove the fender skirts and rear wheels on the right and left sides of the vehicle.
2. Disconnect the wheel sensor connectors (A), and remove the wheel sensor brackets (B) and the brake hose brackets (C), on the right and left sides.

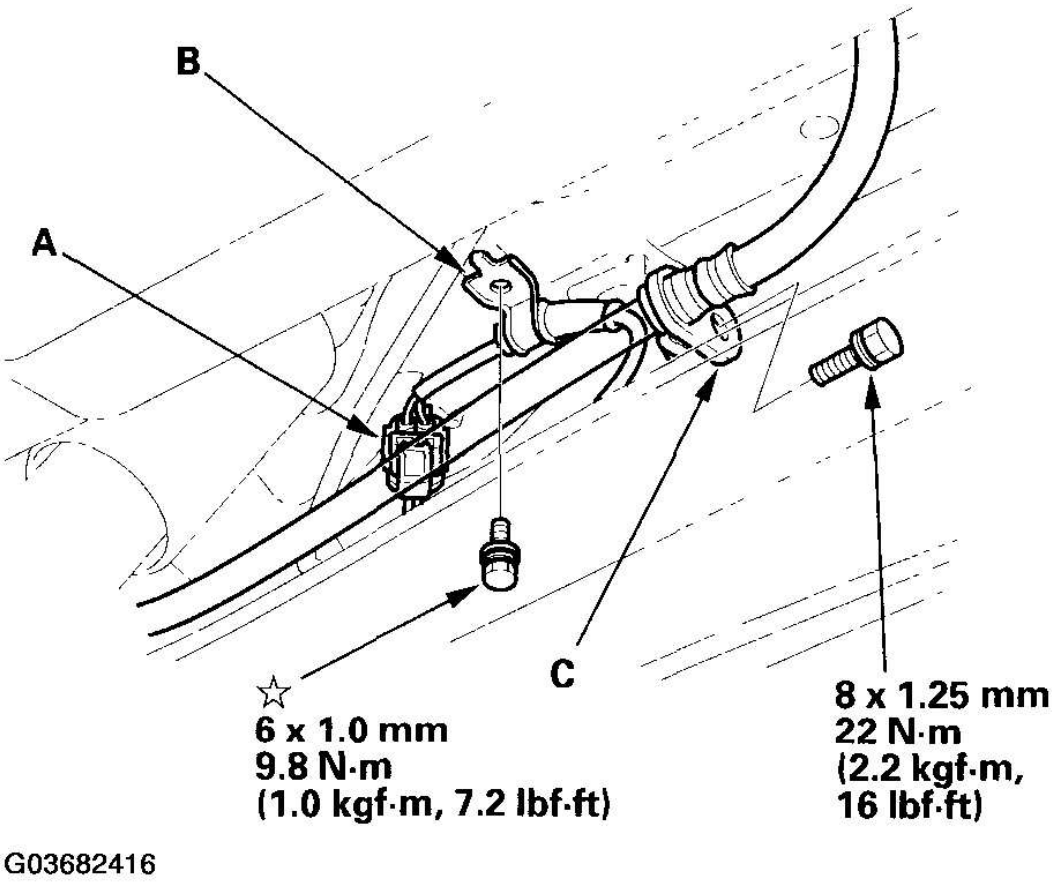

Fig. 7: Disconnecting Wheel Sensor Connectors And Removing Wheel Sensor Brackets And Brake Hose Brackets On Both Sides With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Place a jack under each end of the rear axle beam.
4. Remove the flange bolts (A) at the bottom of the dampers on the right and left sides.

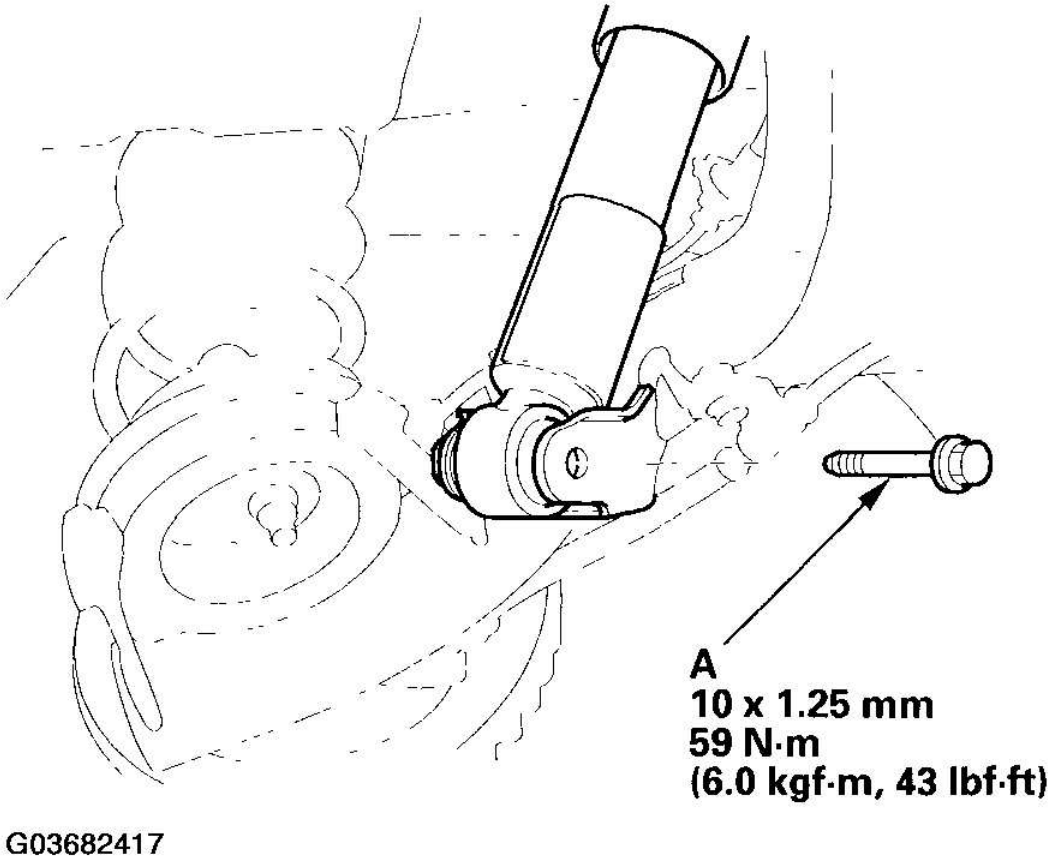

Fig. 8: Removing Flange Bolts At Bottom Of Dampers On Both Sides And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Lower the jacks on the right and left evenly, and remove the spring (A) and upper spring cushion (B).

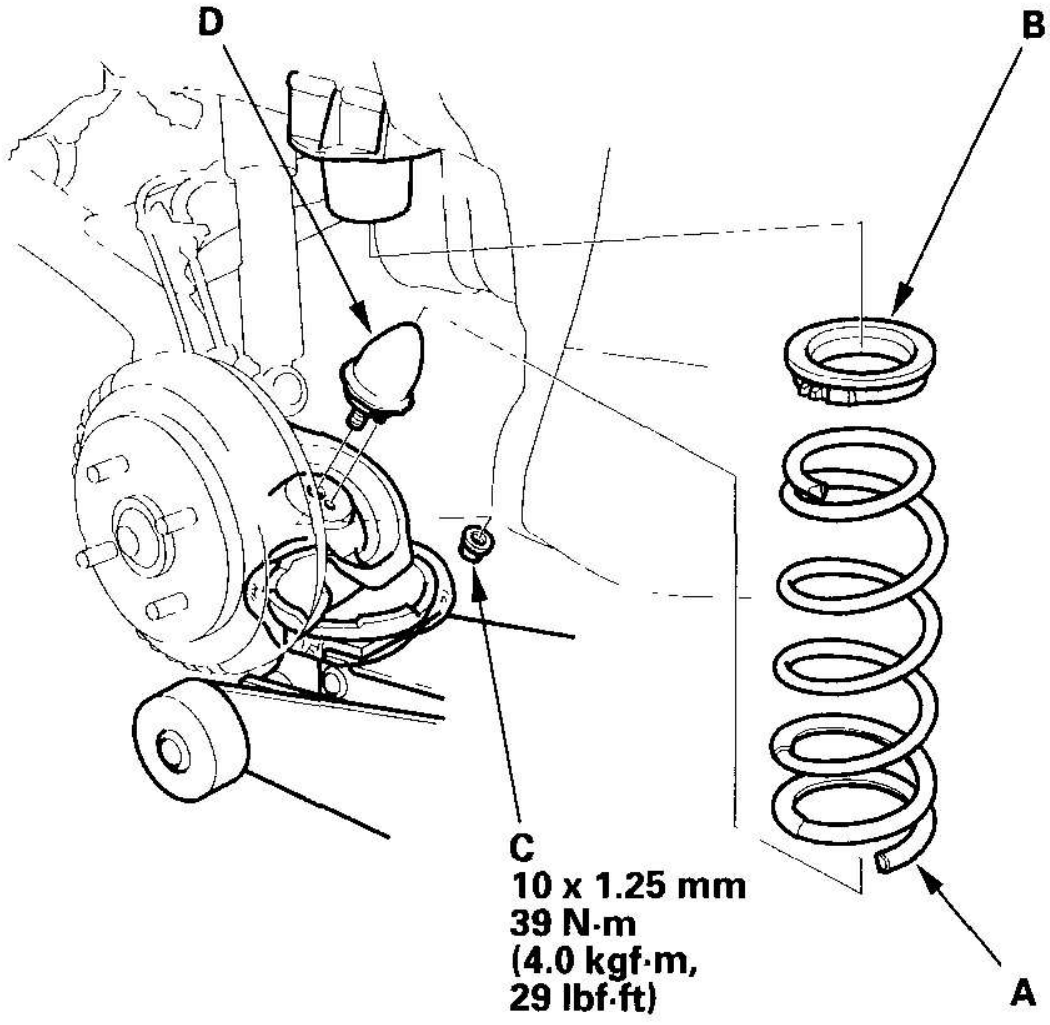

Fig. 9: Removing Spring And Upper Spring Cushion With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Remove the nut (C) and bump stop (D).
7. Install the bump stop and spring in the reverse order of removal, and note these items:
   - Align the spring upper end (A) with the stepped part of the upper spring cushion (B), and align the spring lower end (C) with the stepped part of

the spring seat on the rear axle beam (D).

- When installing the flange bolts connecting the bottom of the dampers to the rear axle beam, first lightly tighten the bolts, raise the suspension with the jacks to load the vehicle weight, then fully tighten the bolts to the specified torque value.

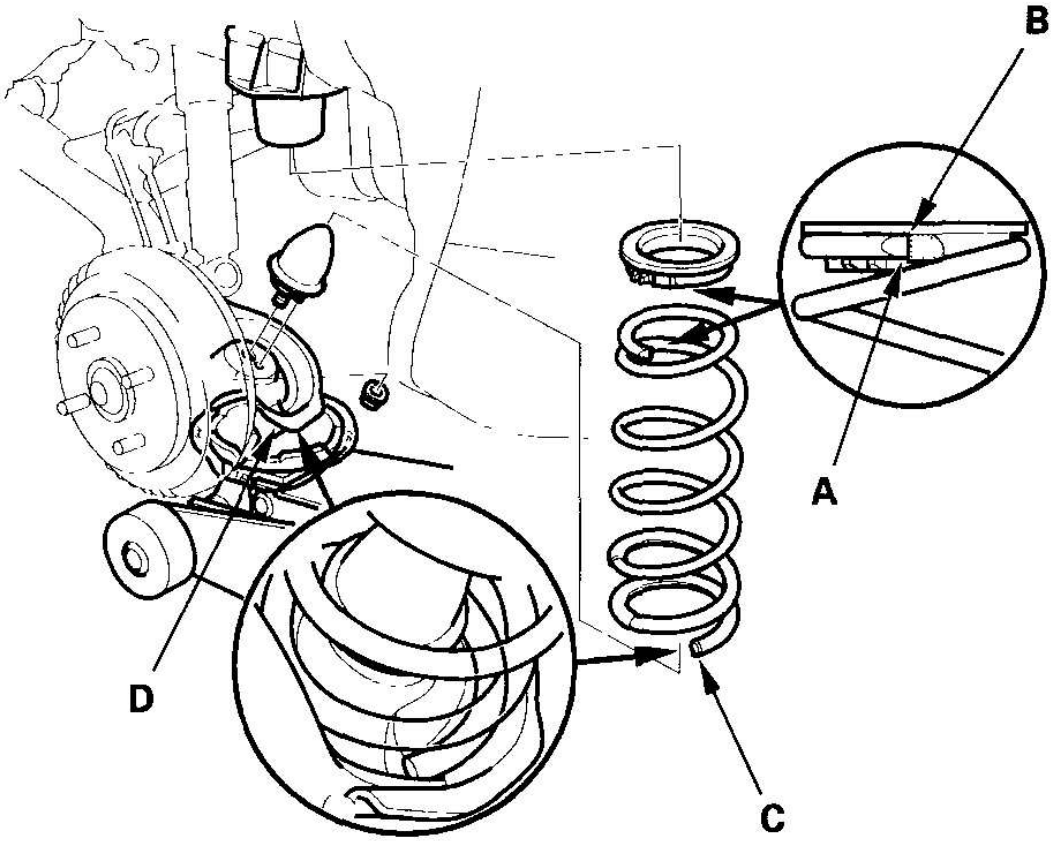

Fig. 10: Aligning Spring Upper End
Courtesy of AMERICAN HONDA MOTOR CO., INC.

REAR AXLE BEAM REPLACEMENT

NOTE:

- **Bolts and nuts with the * mark are special corrosion-resistant Dacro fasteners. Use the same type if**

replacement is necessary.

- **The illustrations show left side of the vehicle.**

1. Raise the rear of the vehicle, and support it with safety stands in the proper locations (see **SAFETY STANDS**). Remove the fender skirts and rear wheels on the right and left sides of the vehicle.
2. Disconnect the wheel sensor connectors (A), and remove the wheel sensor brackets (B) and the brake hose brackets (C) on the right and left sides.

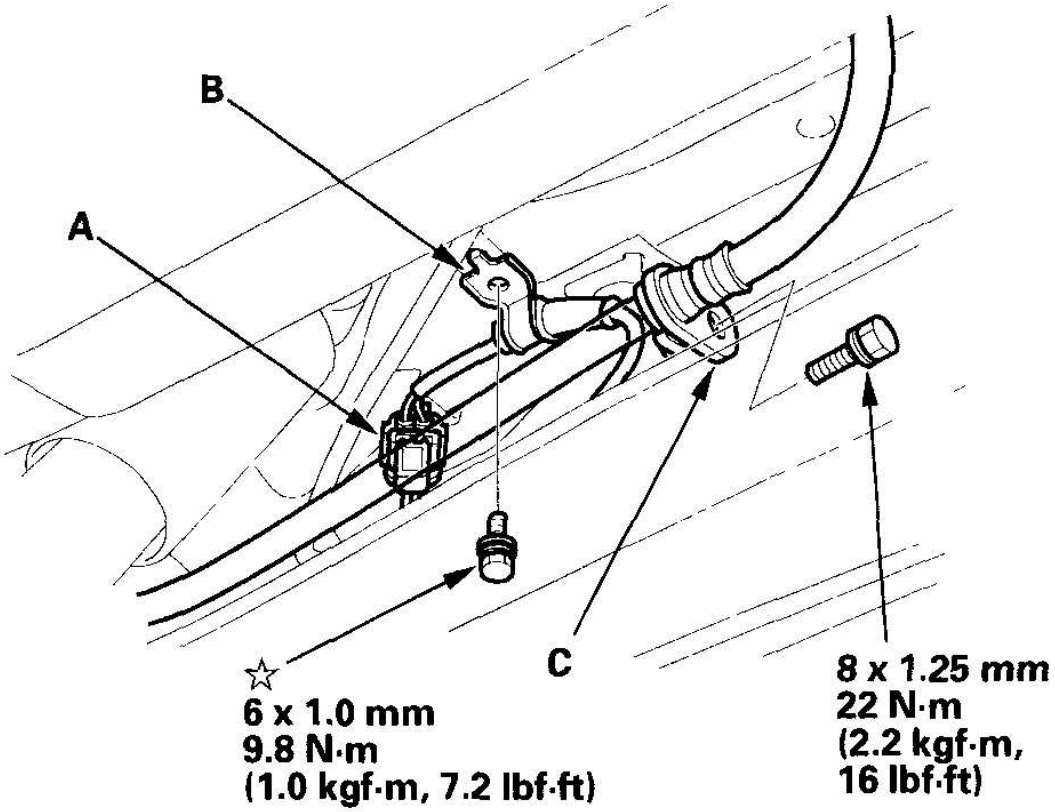

Fig. 11: Disconnecting Wheel Sensor Connectors And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the brake hose clips (A), and disconnect the brake hoses (B) and lines

(C) on the right and left sides.

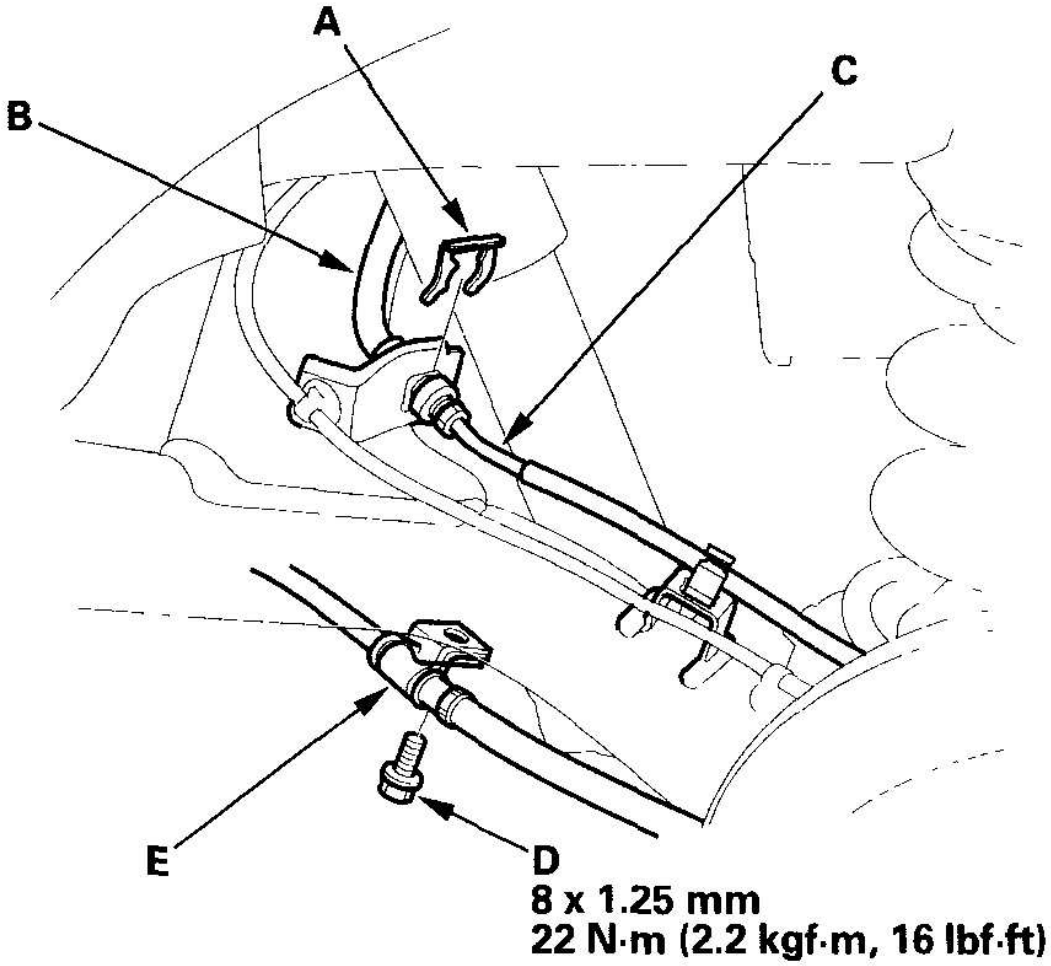

Fig. 12: Removing Brake Hose Clips And Disconnecting Brake Hose And Lines On Both Sides With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the bolts (D) and parking brake cable brackets (E) on the right and left sides.
5. Remove the wheel sensor harnesses on the right and left sides (see **WHEEL SENSOR INSPECTION**).

6. Place a jack under each end of the rear axle beam.
7. Remove the flange bolts (A) at the bottom of the dampers on the right and left sides.

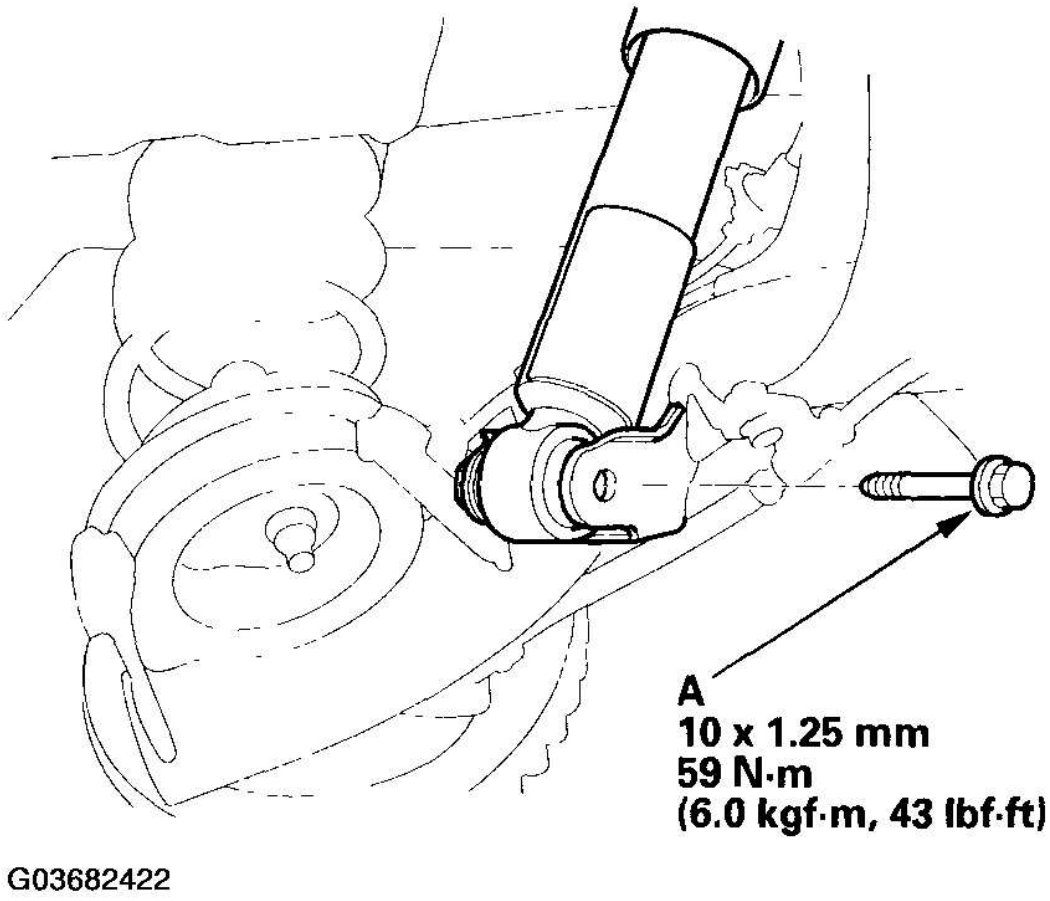

Fig. 13: Removing Flange Bolts At Bottom Dampers On Both Sides And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

8. Lower the jacks on the right and left evenly, and remove the springs (A) and upper spring cushions (B).

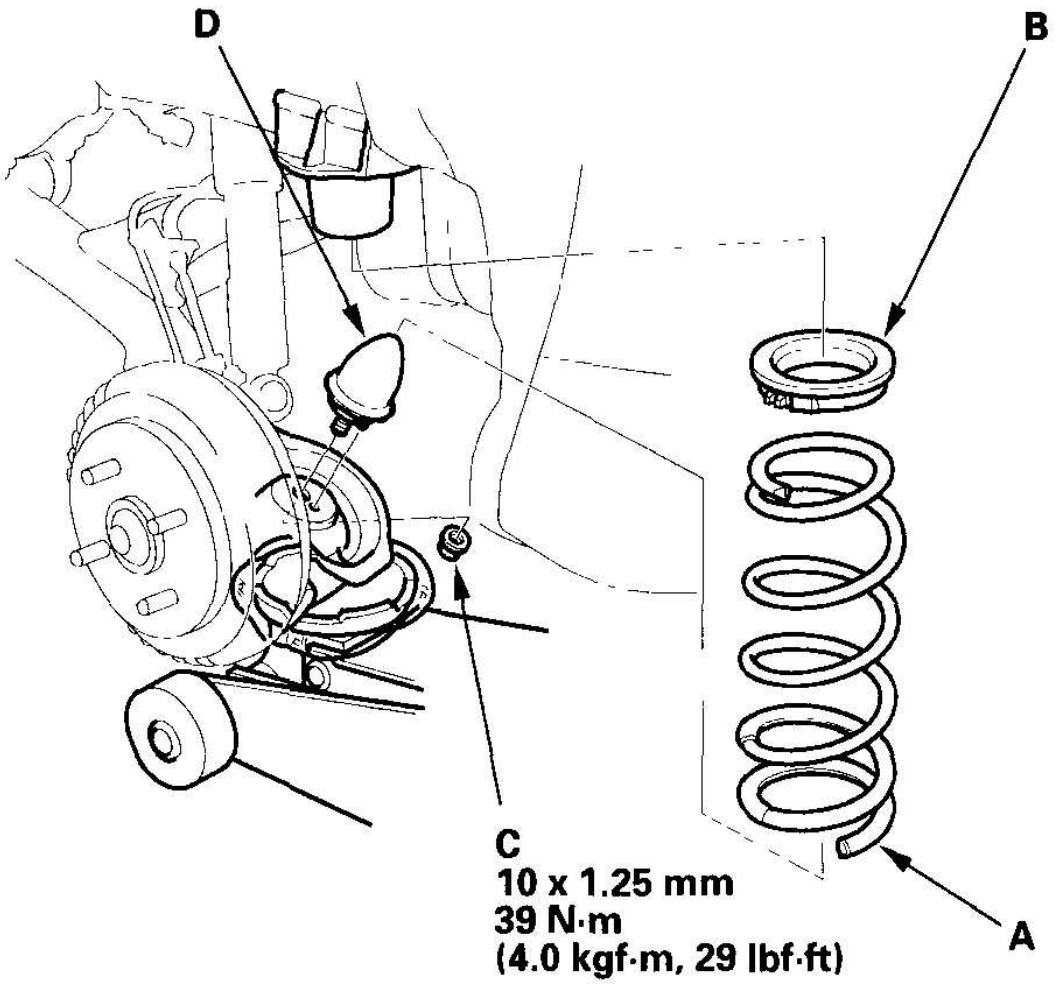

Fig. 14: Removing Springs And Upper Spring Cushions With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

9. Remove the nuts (C) and bump stops (D).
10. Remove the brake drums and hub bearing units on the right and left sides (see **HUB BEARING UNIT REPLACEMENT**).
11. Disconnect the brake lines (A) from each wheel cylinder, remove the circlips (B) and flange bolts (C), then remove the spindles (D) and rear brake assemblies (E).

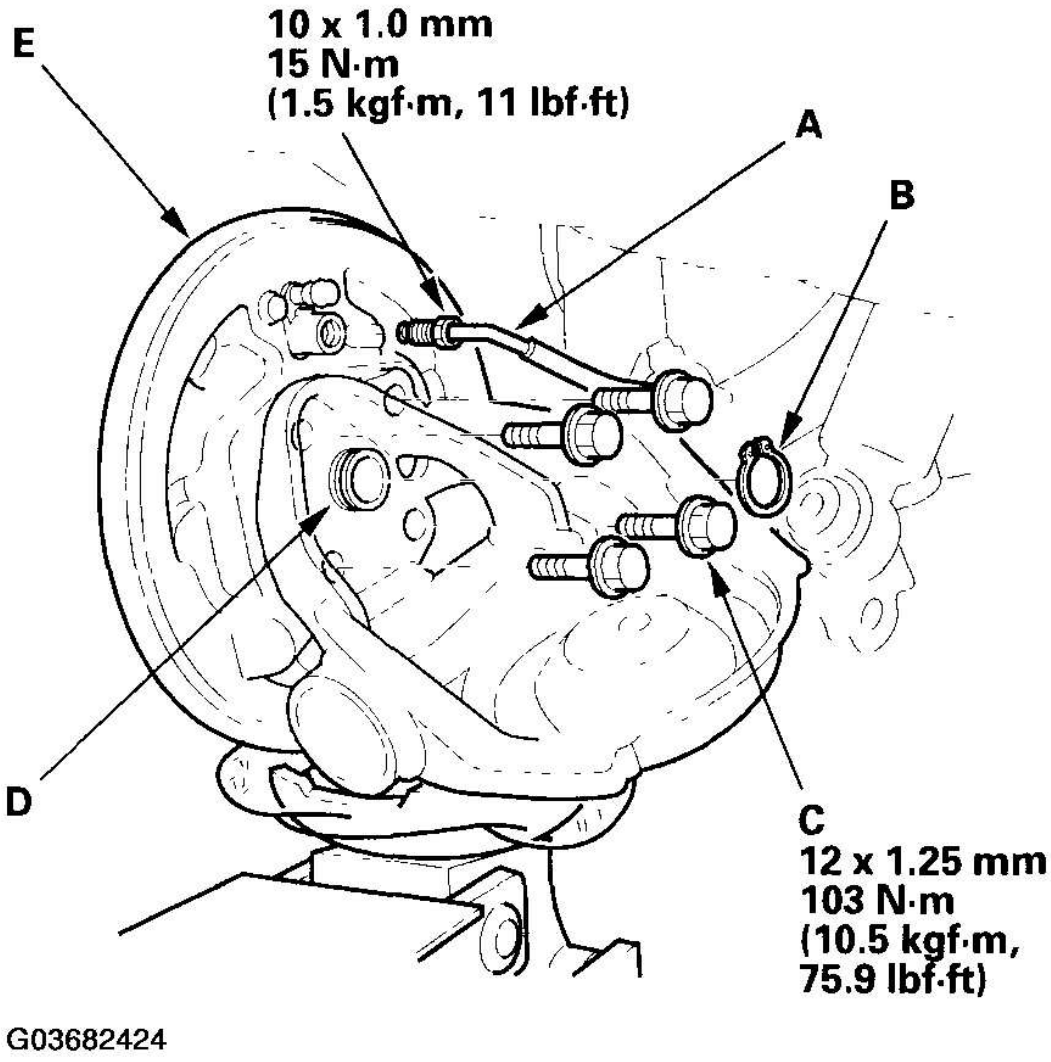

Fig. 15: Disconnecting Brake Lines From Each Wheel Cylinder And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

12. Remove the rear axle beam mounting bolts (A) on the right and left sides, and remove the rear axle beam (B).

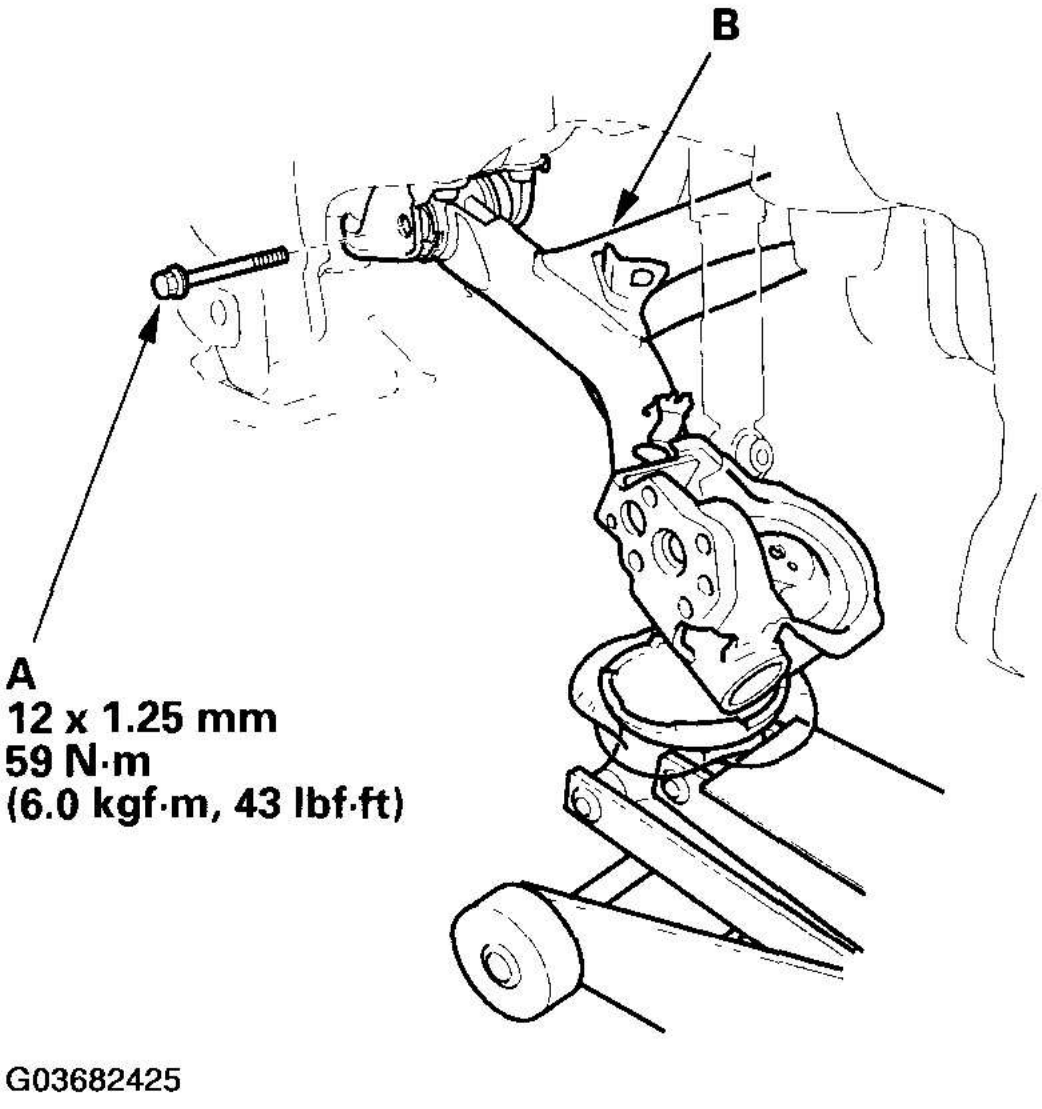

Fig. 16: Removing Rear Axle Beam Mounting Bolts And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

13. Install the rear axle beam in the reverse order of removal, and note these items:
    - Align the spring upper end with the stepped part of the upper spring cushion, and align the spring lower end with the stepped part of the spring seat on the rear axle beam (see **SPRING/BUMP STOP**

REPLACEMENT).

- When installing the flange bolts connecting the rear axle beam to the bottom of the dampers and to the frame, first lightly tighten the bolts, raise the suspension with jacks to load the vehicle weight, then fully tighten the bolts to the specified torque value.
- When installing the rear brake assembly, make sure the O-ring is properly positioned in the wheel sensor hole, on the outside of the axle beam, between the axle beam and the backing plate.

DAMPER REMOVAL AND INSTALLATION

NOTE: Bolts and nuts with the * mark are special corrosion-resistant Dacro fasteners. Use the same type if replacement is necessary.

REMOVAL

1. Raise the rear of the vehicle, and support it with safety stands in the proper locations (see **SAFETY STANDS**). Remove the fender skirts and rear wheels on the right and left side of the vehicle.
2. Place a jack under each end of the rear axle beam.
3. Remove the flange bolt (A) at the bottom of the damper.

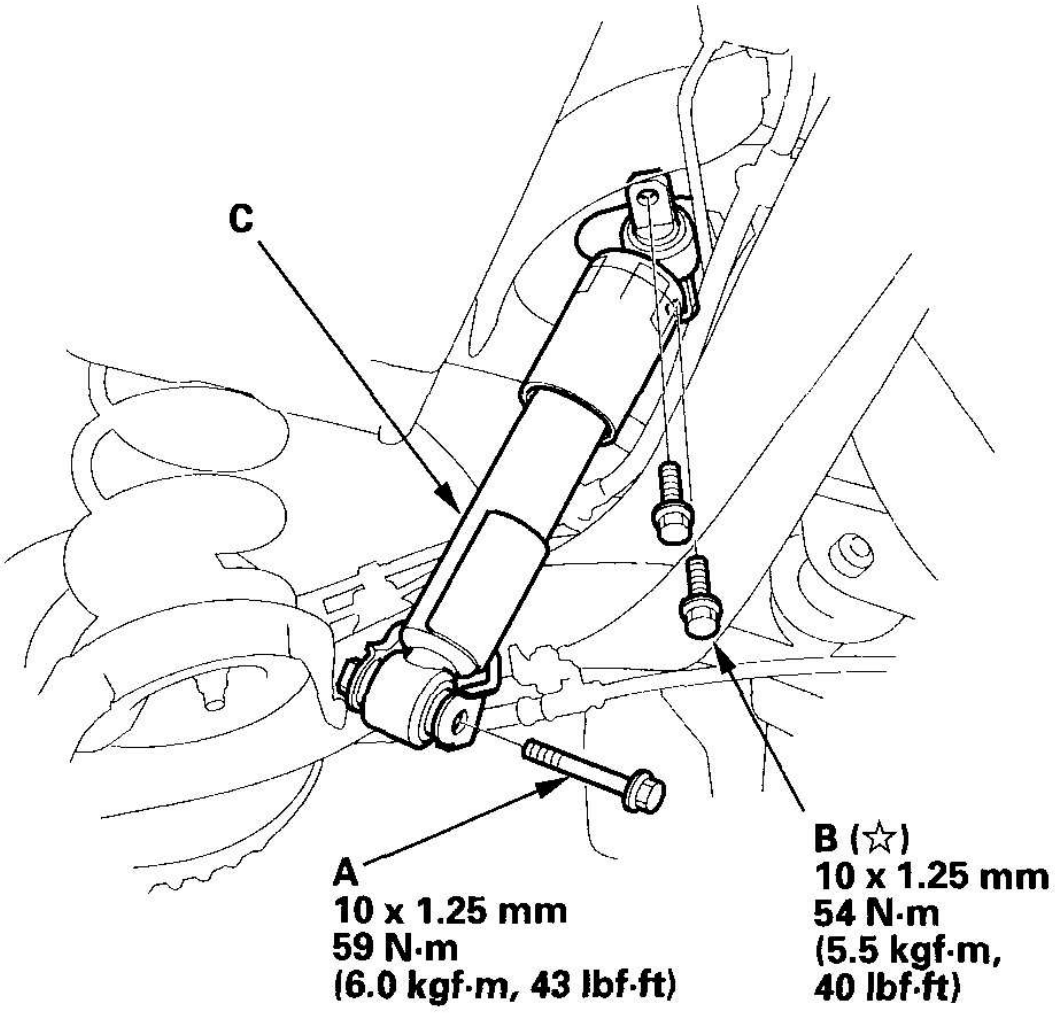

Fig. 17: Removing Flange Bolt At Bottom Of Damper And Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the flange bolts (B) at the top of the damper, and remove the damper assembly (C).

INSTALLATION

1. Install the damper in the reverse order of removal, and note the following item:

Install the bolts at the top and bottom of the damper and lightly tighten, raise the suspension to load the vehicle weight, then fully tighten the bolts to the specified torque value.

INSPECTION

1. Compress the damper assembly (A) by hand, and check for smooth operation through a full stroke, both compression and extension. The damper should extend smoothly and constantly when compression is released. If it does not, the gas is leaking and the damper should be replaced.

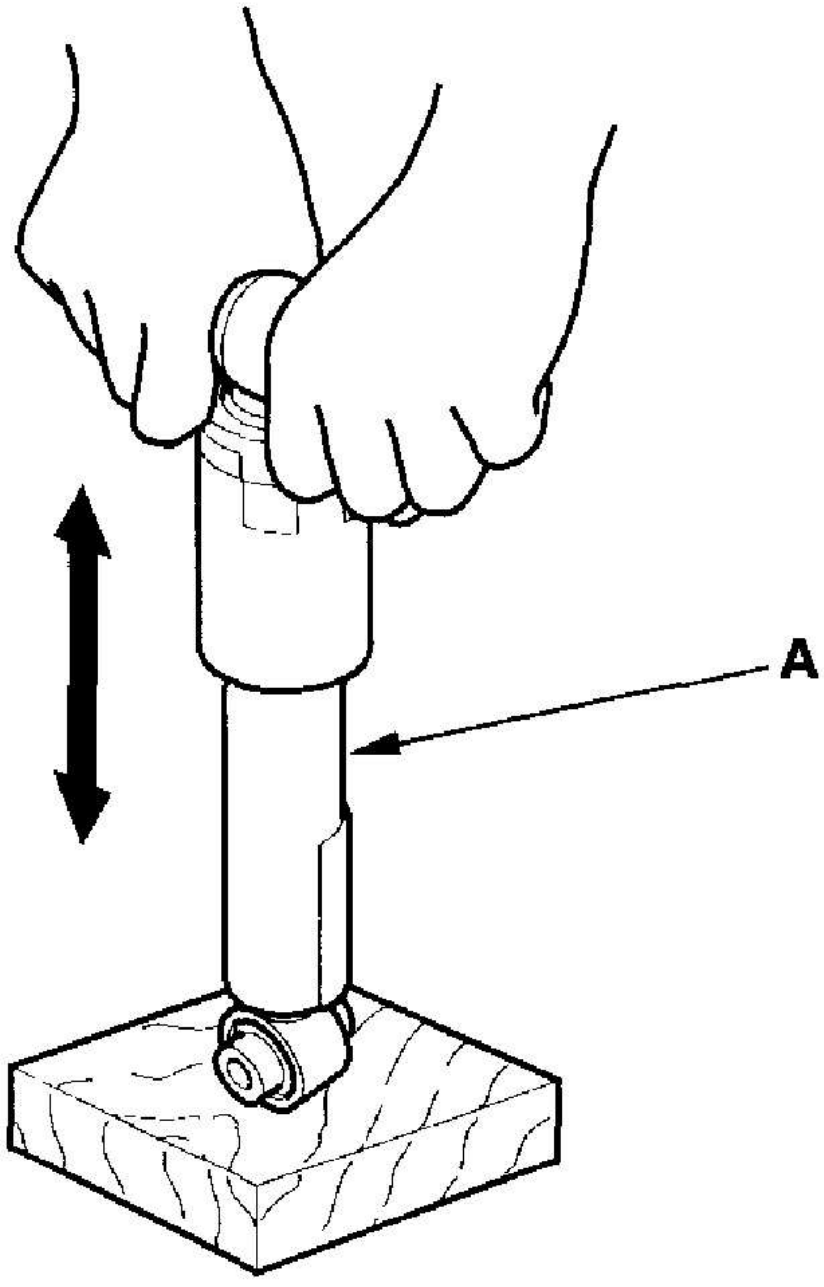

Fig. 18: Compressing Damper Assembly
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Check for oil leaks, abnormal noises, and binding during these tests.