2007-11 SUSPENSION Rear Suspension - Element

2007-11 SUSPENSION

Rear Suspension - Element

KNUCKLE/HUB/WHEEL BEARING REPLACEMENT

EXPLODED VIEW

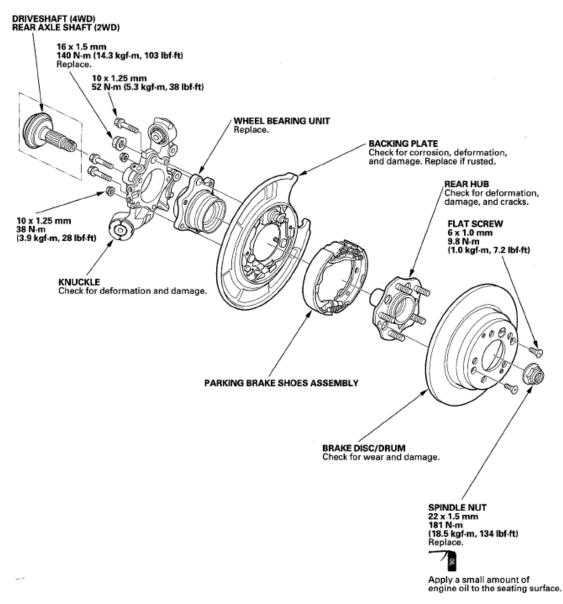


Fig. 1: Identifying Knuckle/Hub/Wheel Bearing Replacement Components With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

SPECIAL TOOLS REQUIRED

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- Attachment, 62 x 68 mm 07746-0010500
- Driver 07749-0010000
- Hub dis/assembly tool 07965-SA70100
- Support base 07965-SD90100

NOTE: Except SC model is shown, other model is similar.

KNUCKLE/HUB REPLACEMENT

- 1. Raise the rear of the vehicle, and support it with safety stands in the proper locations (see <u>LIFT AND SUPPORT POINTS</u>).
- 2. Remove the wheel nuts and rear wheel.

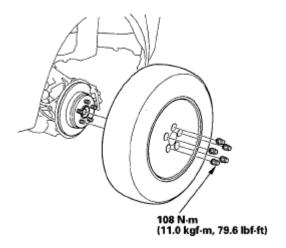
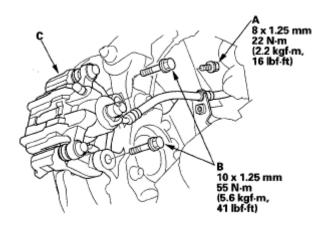


Fig. 2: Identifying Rear Wheel & Wheel Nuts With Torque Specification Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 3. Release the parking brake lever.
- 4. Remove the brake hose mounting bolt (A).



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Fig. 3: Identifying Brake Hose Mounting Bolt With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 5. Remove the brake caliper bracket mounting bolts (B), then hang the caliper assembly (C) from the knuckle. To prevent damage to the caliper or brake hose, use a short piece of wire to hang the caliper assembly from the undercarriage. Do not twist the brake hose excessively.
- 6. Release the parking brake, and remove the brake disc/drum from the rear hub (see **REAR BRAKE DISC REPLACEMENT**).
- 7. Raise the stake (A) of the spindle nut (B), then remove and discard the nut. Remove the rear axle shaft (C) from vehicles with 2WD.

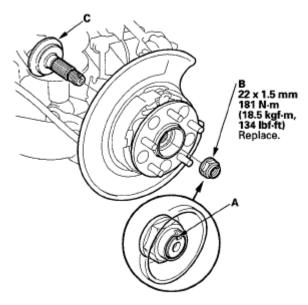


Fig. 4: Identifying Spindle Nut With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 8. Check the rear hub for damage and cracks.
- 9. Remove the parking brake shoes (see **PARKING BRAKE SHOE REPLACEMENT**).
- 10. Remove the parking brake cable (A) from the backing plate.

NOTE: The parking brake cable must not be bent or distorted. This will lead to stiff operation and premature cable failure.

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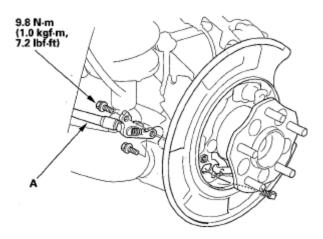


Fig. 5: Identifying Parking Brake Cable With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

11. Remove the wheel sensor (A) from the knuckle. Do not disconnect the wheel sensor connector.

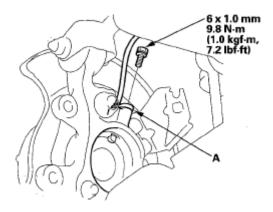


Fig. 6: Identifying Wheel Sensor With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

12. Place a floor jack under the trailing arm (A) to support it.

NOTE: Do not place the jack against the plate section of the trailing arm. Be careful not to damage any suspension components.

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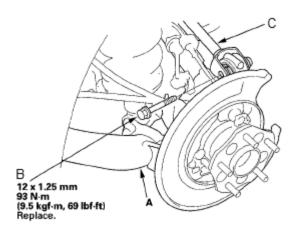


Fig. 7: Identifying Trailing Arm With Torque Specifications Courtesy of AMERICAN HONDA MOTOR CO., INC.

13. Remove the flange bolt, and disconnect the upper arm (B) from the knuckle.

NOTE: Use a new flange bolt during reassembly.

14. Mark the cam positions of the adjusting bolt (A) and adjusting cam (B), then remove the self-locking nut (C), adjusting cam, and adjusting bolt.

NOTE: Use a new self-locking nut and a new adjusting bolt during reassembly.

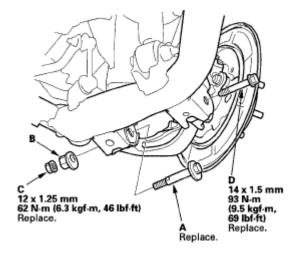


Fig. 8: Identifying Adjusting Bolt, Adjusting Cam, Self-Locking Nut, Adjusting Bolt & Flange Bolt With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

15. Remove the flange bolt (D).

NOTE: Use a new flange bolt during reassembly.

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16. Remove the knuckle (A) while pushing in the driveshaft and holding the driveshaft outboard joint (B) (4WD only).

NOTE: Do not pull the driveshaft end outward. The driveshaft inboard joint may come apart (4WD only).

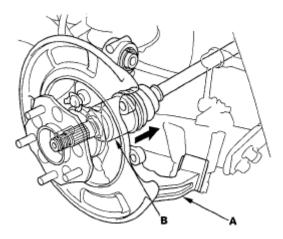


Fig. 9: Pushing Driveshaft & Holding Driveshaft Outboard Joints Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 17. Install the knuckle/hub in the reverse order of removal, and note these items:
 - First install all the components, and lightly tighten the bolts and nuts, then place a floor jack under the trailing arm, and raise the suspension to load it with the vehicle's weight before fully tightening the bolts and nuts to the specified torque values.
 - Align the cam positions of the adjusting bolt and the adjusting cam with the marked positions when tightening.
 - Use a new spindle nut during reassembly.
 - Before installing the 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 driveshaft (4WD) or rear axle shaft (2WD).
 - Before installing the brake disc/drum, clean the mating surfaces of the rear hub and the inside of the brake disc/drum.
 - Before installing the wheel, clean the mating surfaces of the brake disc/drum and the inside of the wheel.
 - Check the wheel alignment, and adjust it if necessary (see **WHEEL ALIGNMENT**).

WHEEL BEARING UNIT REPLACEMENT

1. Remove the brake hose mounting bracket (A).

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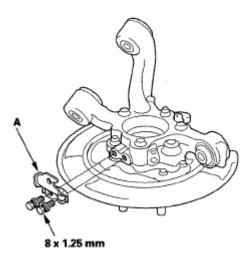


Fig. 10: Identifying Brake Hose Mounting Bracket Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Separate the wheel bearing unit (A) from the knuckle (B).

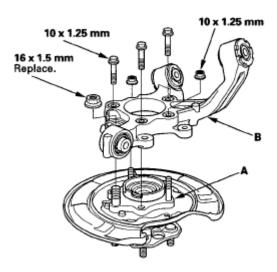


Fig. 11: Identifying Wheel Bearing Unit & Knuckle Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Separate the hub (A) and backing plate (B) from wheel bearing unit (C) using the hub dis/assembly tool and a hydraulic press. Hold the wheel bearing unit with a press attachment (D) or equivalent tool. Be careful not to deform the backing plate. Hold onto the hub to keep it from falling when pressed clear.