2007 DRIVELINE/AXLES Front Axle - MX-5 Miata

2007 DRIVELINE/AXLES

Front Axle - MX-5 Miata

FRONT AXLE LOCATION INDEX

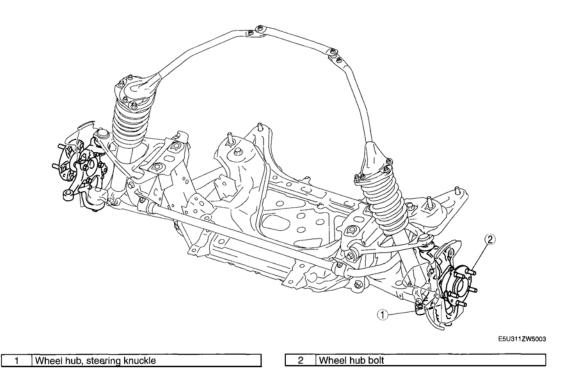


Fig. 1: Identifying Front Axle Assembly Courtesy of MAZDA MOTORS CORP.

WHEEL HUB, STEERING KNUCKLE INSPECTION

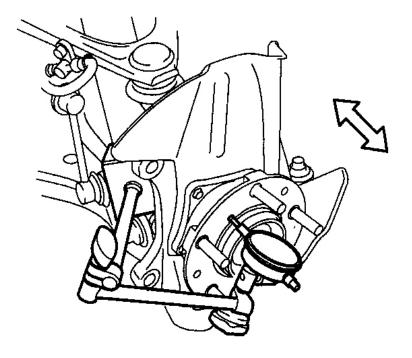
WHEEL BEARING LOOSENESS INSPECTION

- 1. Install the magnetic vase and dial gauge as shown in **Fig. 2**, and inspect the wheel bearing for axial looseness.
 - If it exceeds the maximum specification, replace the wheel hub component.

Maximum front wheel bearing play

0.05 mm {0.002 in}

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Fig. 2: Inspect Wheel Bearing For Axial Looseness Courtesy of MAZDA MOTORS CORP.

FRONT WHEEL HUB BOLT REPLACEMENT

- 1. Remove the brake caliper component and disc plate.
- 2. Remove the wheel hub bolt using the **SST** as shown in **<u>Fig. 3</u>**.

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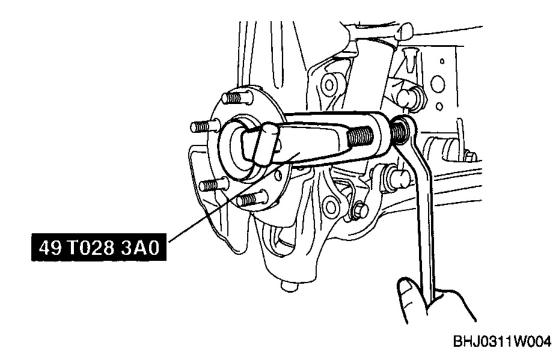
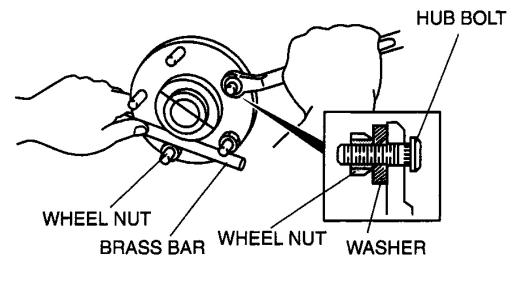


Fig. 3: Removing Wheel Hub Bolt Using SST Courtesy of MAZDA MOTORS CORP.

- 3. Place a new wheel hub bolt in the wheel hub.
- 4. Install the wheel hub bolt by placing a proper sized washer on the hub, and tightening the nut as shown in **<u>Fig. 4</u>**.

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Fig. 4: Installing Wheel Hub Bolt By Placing Proper Sized Washer On Hub & Tightening Nut Courtesy of MAZDA MOTORS CORP.

WHEEL HUB, STEERING KNUCKLE REMOVAL/INSTALLATION

- CAUTION: Performing the following procedures without first removing the ABS wheel-speed sensor may possibly cause an open circuit in the wiring harness if it is pulled by mistake. Before performing the following procedures, disconnect the ABS wheel-speed sensor harness connector (axle side) and fix it to an appropriate place where the sensor will not be pulled by mistake while servicing the vehicle.
- 1. Remove in the order indicated in **Fig. 5**.
- 2. Install in the reverse order of removal.
- 3. After installation, inspect front wheel alignment. (See **FRONT WHEEL ALIGNMENT**.)

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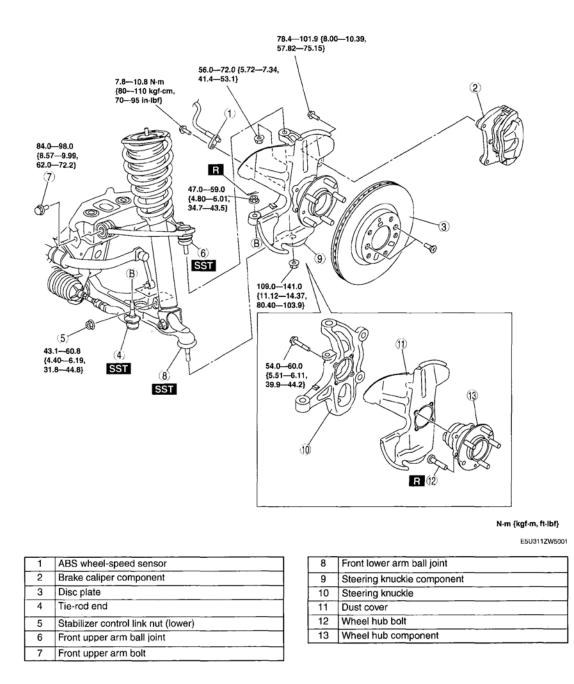
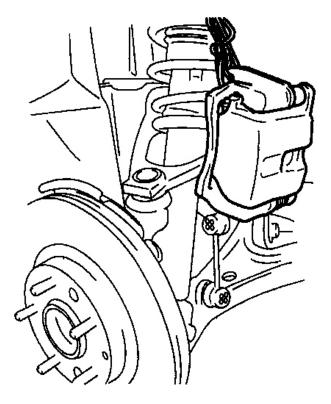


Fig. 5: Identifying Wheel Hub, Steering Knuckle Components (With Torque Specifications) Courtesy of MAZDA MOTORS CORP.

BRAKE CALIPER COMPONENT REMOVAL NOTE

1. Suspend the brake caliper component using a cable or equivalent.

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<u>Fig. 6: Suspending Brake Caliper</u> Courtesy of MAZDA MOTORS CORP.

WHEEL HUB BOLT REMOVAL NOTE

NOTE: • Remove the wheel hub bolt only if there is an abnormality.

1. Remove the wheel hub bolts from the wheel hub using a press.

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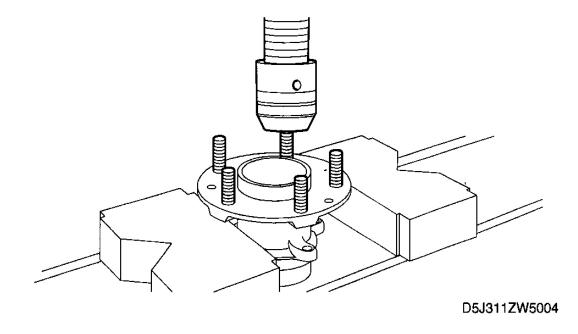


Fig. 7: Removing Wheel Hub Bolts From Wheel Hub Using Press Courtesy of MAZDA MOTORS CORP.

WHEEL HUB BOLT INSTALLATION NOTE

1. Press in new wheel hub bolts into the wheel hub using a press.

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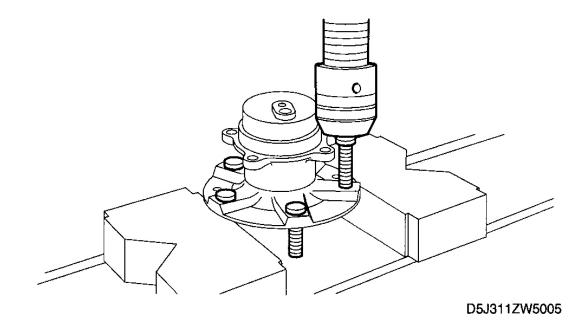


Fig. 8: Pressing In New Wheel Hub Bolts Into Wheel Hub Using Press Courtesy of MAZDA MOTORS CORP.