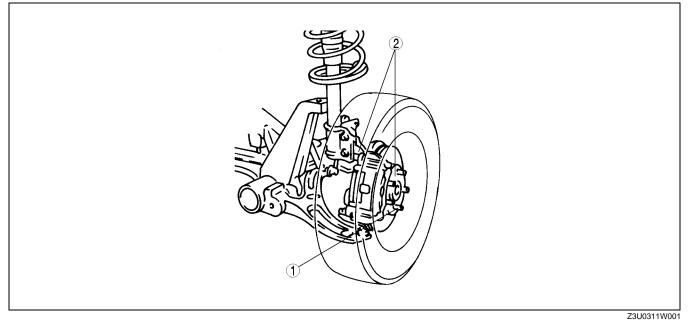
03–11 FRONT AXLE

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03-11



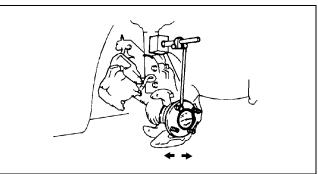
Hub bolt 1 (See 03-11-2 WHEEL HUB BOLT REPLACEMENT)

Wheel hub, steering knuckle 2 (See 03-11-3 WHEEL HUB, STEERING KNUCKLE REMOVAL/INSTALLATION) (See 03-11-1 WHEEL HUB, STEERING **KNUCKLE PRE-INSPECTION**)

WHEEL HUB, STEERING KNUCKLE PRE-INSPECTION

Wheel Bearing Play Inspection

- 1. Position a dial indicator against the wheel hub.
- 2. Push and pull the wheel hub by hand in the axial direction and measure the wheel bearing play.
 - If the bearing play exceeds the specification, replace the wheel bearing as necessary and tighten the locknut to the specified torque and retest.
 - Maximum wheel bearing play 0.05 mm {0.002 in}



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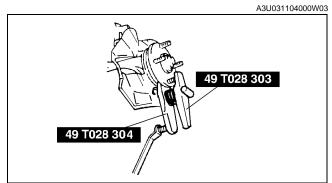
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WHEEL HUB BOLT REPLACEMENT

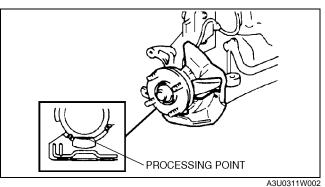
1. Remove the hub bolt using the **SSTs**.

Note

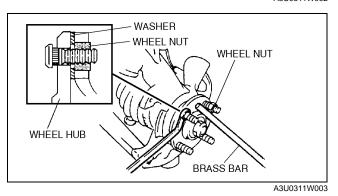
- If the dust cover interferes with the wheel hub bolt and the wheel hub bolt cannot be removed, tap the part shown in the figure with a chisel lightly and bend the processing point back to the steering knuckle side.
- 2. Install the hub bolt into the wheel hub and install a washer and hub nut on the hub bolt.



A3U0311W007



3. Tighten the hub nut while holding the wheel hub using a brass bar.



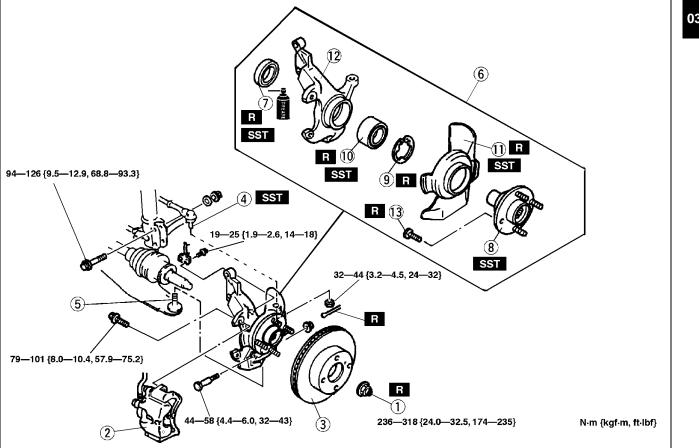
FRONT AXLE

WHEEL HUB, STEERING KNUCKLE REMOVAL/INSTALLATION

A3U031104000W04

Caution

- Performing the following procedures without first removing the ABS wheel-speed sensor may possibly cause an open circuit in the harness if it is pulled by mistake. Before performing the following procedures, remove the ABS wheel-speed sensor (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 the table.
- 2. Install in the reverse order of removal.
- 3. After installation, inspect the front wheel alignment. (See 02-11-1 FRONT WHEEL ALIGNMENT.)



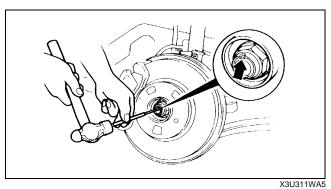
A3U0311W001

1	Locknut (See 03–11–4 Locknut Removal Note) (See 03–11–7 Locknut Installation Note)
2	Brake caliper component
3	Disc plate
4	Tie-rod end (See 06–12–10 Tie-rod End Ball Joint Removal Note)
5	Lower arm ball joint
6	Wheel hub, steering knuckle, dust cover
7	Oil seal (See 03–11–7 Oil Seal Installation Note)
8	Wheel hub component (See 03–11–4 Wheel Hub Component Removal Note) (See 03–11–6 Wheel Hub Component Installation Note)

9	Retaining ring
10	Wheel bearing (See 03–11–4 Wheel Bearing Removal Note) (See 03–11–6 Wheel Bearing Installation Note)
11	Dust cover (See 03–11–5 Dust Cover Removal Note) (See 03–11–6 Dust Cover Installation Note)
12	Steering knuckle
13	Hub bolt (See 03–11–5 Hub Bolt Removal Note) (See 03–11–5 Hub Bolt Installation Note)

Locknut Removal Note

- 1. Knock the crimped portion of the locknut outward using a small chisel and a hammer.
- 2. Lock the hub by applying the brakes.
- 3. Remove the locknut.

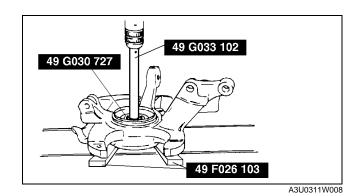


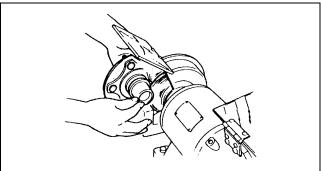
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Wheel Hub Component Removal Note

1. Remove the wheel hub component using the **SSTs**.

 If the bearing inner race remains on the front wheel hub component, grind a section of the bearing inner race until approx. 0.5 mm {0.020 in} remains. Then remove it using a chisel.

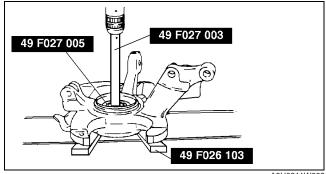




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Wheel Bearing Removal Note

1. Remove the wheel bearing using the SSTs.

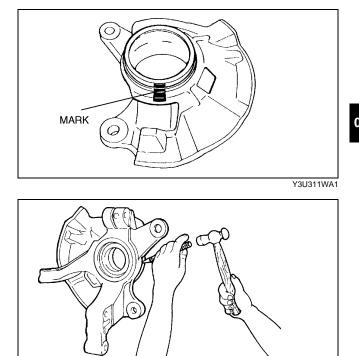


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Dust Cover Removal Note

Note

- The dust cover does not need to be removed unless it is being replaced.
- 1. Mark the dust cover and steering knuckle for proper installation.



03–11

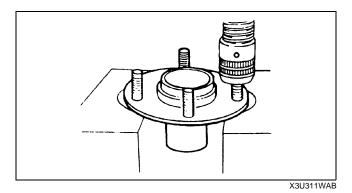
2. Remove the dust cover using a chisel.

X3U311WAA

Hub Bolt Removal Note

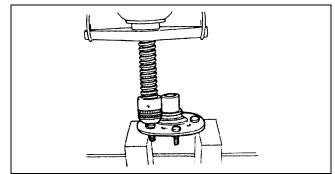
Note

- The hub bolts do not need to be removed unless they are being replaced.
- 1. Remove the hub bolts using a press.



Hub Bolt Installation Note

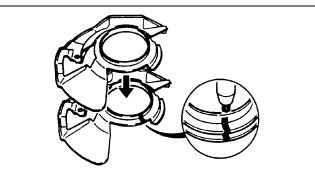
1. Install the new hub bolts using a press.



X3U311WAC

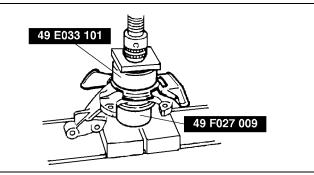
Dust Cover Installation Note

- 1. Mark the new dust cover in the same way as the removed one.
- 2. Align the marks of the new dust cover and the knuckle.



X3U311WAD

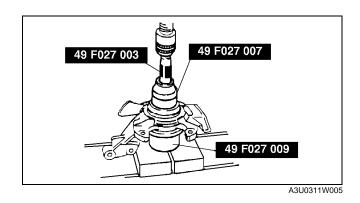
3. Install the new dust cover using the **SSTs**.



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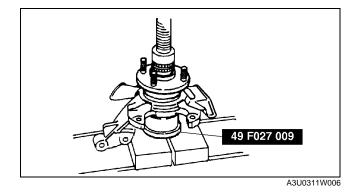
Wheel Bearing Installation Note

1. Install the new wheel bearing using the SSTs.



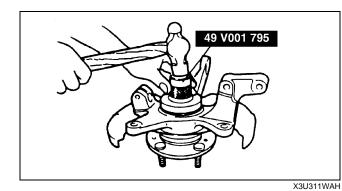
Wheel Hub Component Installation Note

1. Install the wheel hub component using the SST.



Oil Seal Installation Note

- Apply grease to the new oil seal lip.
 Install the new oil seal flush with the knuckle using the SST.



Locknut Installation Note

1. Install a new locknut and stake it as shown.

