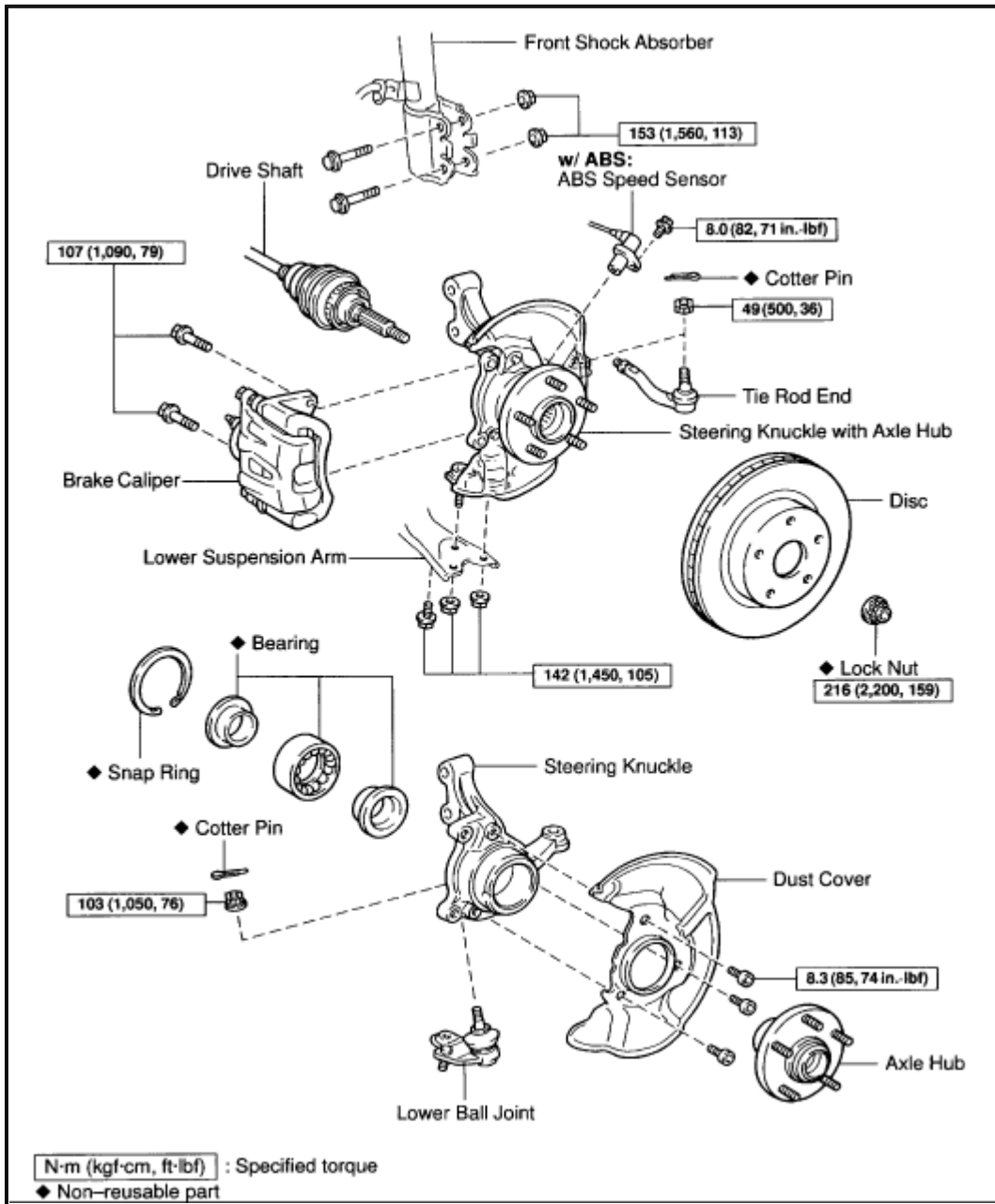


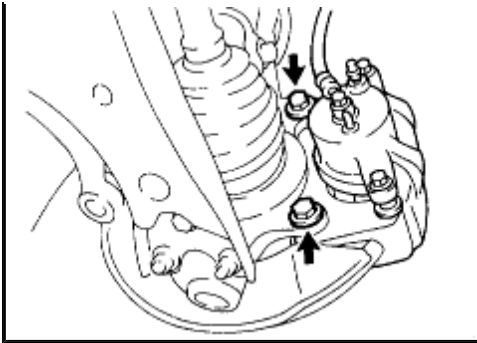
## Removal and Installation



### REMOVAL

1. REMOVE FRONT WHEEL Torque: **103 Nm (1,050 kgf.cm, 76 ft. lbs.)**
2. CHECK BEARING BACKLASH AND AXLE HUB DEVIATION

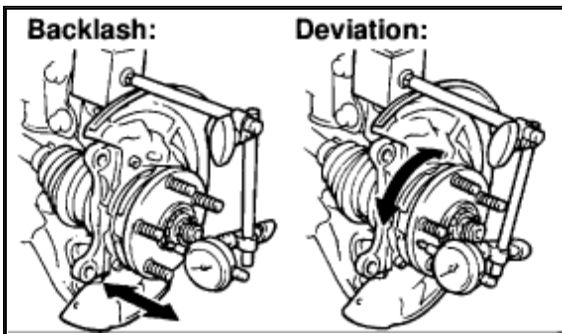




ZOOM

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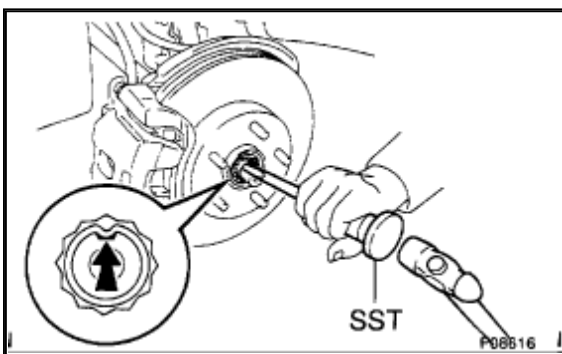
- a. Remove the 2 bolts, brake caliper and disc.
- b. Support the brake caliper securely.



ZOOM

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- c. Using a dial indicator, check the backlash near the center of the axle hub. Maximum: **0.05 mm (0.0020 inch)** If the backlash exceeds the maximum, replace the bearing.
- d. Using a dial indicator, check the deviation at the surface of the axle hub outside the hub bolt. Maximum: **0.07 mm (0.0028 inch)** If the deviation exceeds the maximum, replace the axle hub.
- e. Install the disc, 2 bolts and brake caliper. Torque: **107 Nm (1,090 kgf.cm, 79 ft. lbs.)**



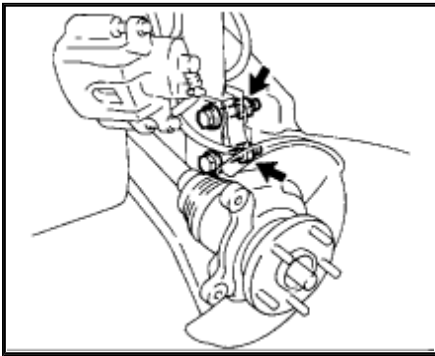
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### 3. REMOVE DRIVE SHAFT LOCK NUT

- a. Using SST and a hammer, unstick the staked part of the lock nut. SST 09930-00010
- b. While applying the brakes, remove the nut. Torque: **216 Nm (2,200 kgf.cm, 159 ft. lbs.)**
- c. Remove the brake caliper and disc.
- d. Support the brake caliper securely.

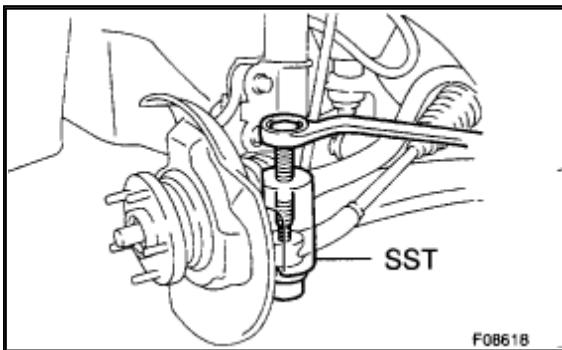
4. w/ABS: REMOVE ABS SPEED SENSOR Torque: **8.0 Nm (82 kgf.cm, 71 inch lbs.)**



ZOOM

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5. LOOSEN 2 NUTS ON LOWER SIDE OF SHOCK ABSORBER Torque: **153 Nm (1,560 kgf.cm, 113 ft. lbs.)**  
**HINT:** Do not remove the 2 bolts and nuts.

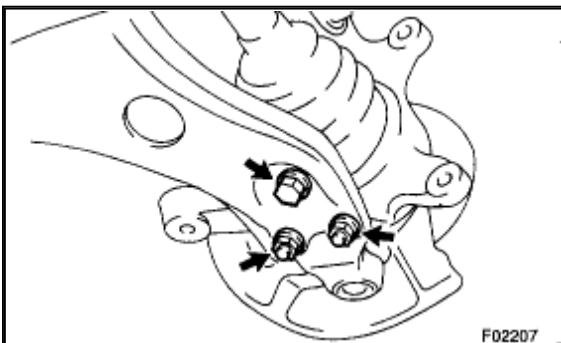


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6. DISCONNECT TIE ROD END FROM STEERING KNUCKLE

- a. Remove the cotter pin and nut. Torque: **49 Nm (500 kgf.cm, 36 ft. lbs.)** **HINT:** At the time of installation, if the holes for a new cotter pin are not aligned, tighten the nut further up to 60°.
- b. Using SST, disconnect the tie rod end from the steering knuckle. SST 09610-20012



ZOOM

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7. DISCONNECT LOWER SUSPENSION ARM FROM LOWER BALL JOINT Remove the 2 nuts and bolt. Torque: **142 Nm (1,450 kgf.cm, 105 ft. lbs.)**  
8. REMOVE STEERING KNUCKLE WITH AXLE HUB

- a. Remove the 2 bolts and nuts on the lower side of the shock absorber. **HINT:** At the time of installation, coat the nut's thread with engine oil.
- b. Remove the steering knuckle with the axle hub. **NOTICE:** Be careful not to damage the boot and ABS speed sensor rotor.

## **INSTALLATION**

Installation is in the reverse order of removal.

**HINT:** After installation, check the ABS speed sensor signal and front [wheel](#) alignment.