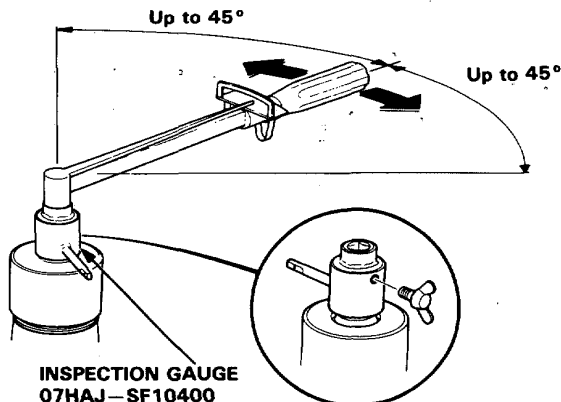


# Rear Steering Gearbox

## Function Inspection

### Preload Inspection

1. Set the rear steering gearbox to neutral (page 11-92).
2. Remove the rear steering gearbox center lock pin.
3. Install the special tool in the offset shaft.



4. Install a torque wrench in the special tool, and check the starting torque when rotating the wrench in the clockwise and counterclockwise directions.

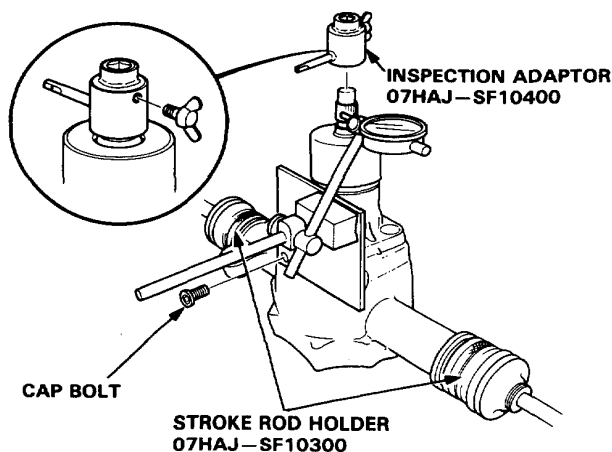
**Starting Torque: 1 N·m (0.1 kg-m, 0.7 lb-ft) or less**

**NOTE:**

- Check the torque after several rotations.
- Do not apply a torque of 5 N·m (0.5 kg-m, 4 lb-ft) or more to the offset shaft.

### Free-play Inspection

1. Set the rear steering gearbox to neutral (page 11-92).
2. Remove the rear steering gearbox center lockpin and install the stroke rod holders (page 11-93).
3. Install the special tool in the offset shaft.

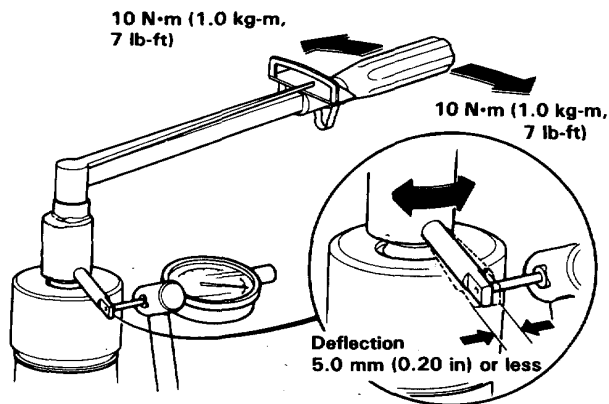


3. Install the dial indicator using a cap bolt.

**NOTE:** Set the dial indicator on the flat end of the special tool.

4. Install the torque wrench in the special tool, then read the dial gauge when applying a torque of 10 N·m (1.0 kg-m, 7 lb-ft) in the clockwise and counterclockwise directions, respectively.

The total deflection range when applying a torque of 10 N·m (1.0 kg-m, 7 lb-ft) in both directions should be 5.0 mm (0.20 in) or less.



Example: With a deflection of 2.50 mm (0.10 in) in the clockwise direction and 2.40 mm (0.09 in) in the counterclockwise direction, the gearbox is OK.

**NOTE:** If the total deflection is more than 5.0 mm (0.20 in) replace the rear steering gearbox assembly.

5. Remove the special tools, then screw in the cap bolt and sealing washer into place.

**Tightening Torque: 22 N·m (2.2 kg-m, 16 lb-ft)**