

STEERING WHEEL REPAIR PROCEDURES

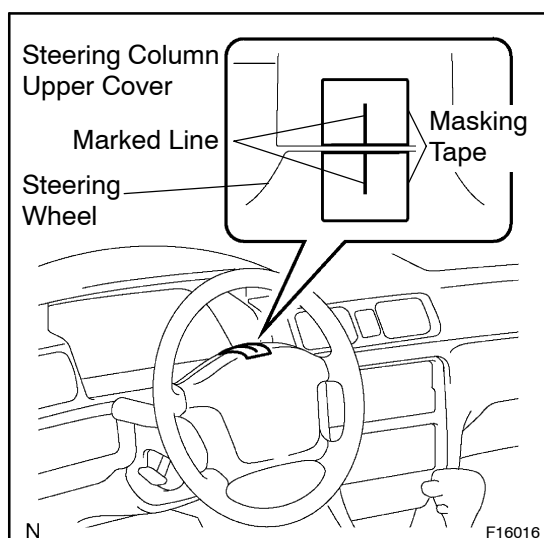
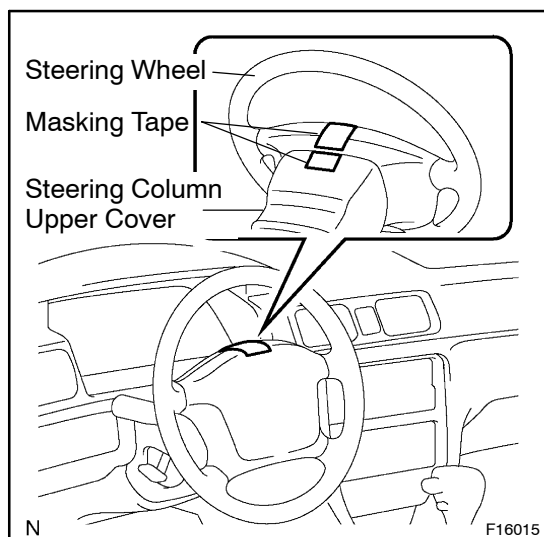
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HINT:

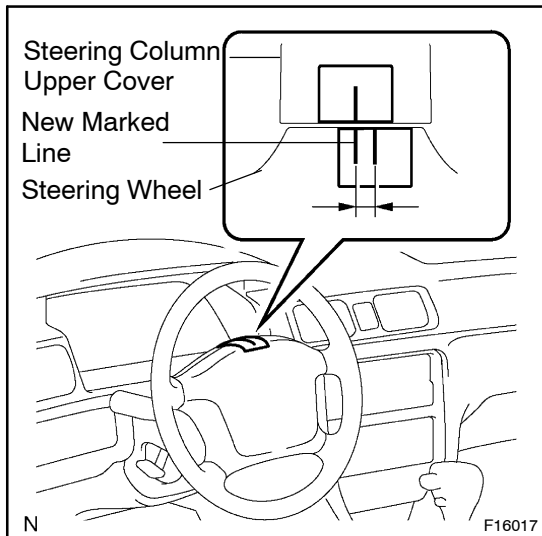
- For the steering off-center, perform the "steering off-center" ([See page DI-162](#)).
- Check that the "STRAIGHT ANG FLG" is "VALID" in the DATA LIST ([See page DI-91](#) step 5.).
- This is the repair procedure for steering off center.

1. INSPECT STEERING WHEEL OFF CENTER

- Apply masking tape on the top center of the steering wheel and steering column upper cover.



- Drive the vehicle in a straight line for 100 meters at a constant speed of 35 mph (56 km/h), and hold the steering wheel to maintain the course.
- Draw a line on the masking tape as shown in the illustration.



- (d) Turn the steering wheel to its straight position.

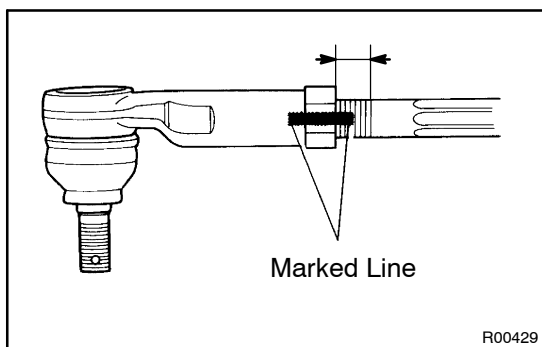
HINT:

Refer to the upper surface of the steering wheel, steering spoke and SRS airbag line for the straight position.

- (e) Draw a new line on the masking tape of the steering wheel as shown in the illustration.
- (f) Measure the distance between the 2 lines on the masking tape of the steering wheel.
- (g) Convert the measured distance to steering angle.
- Measured distance 1 mm (0.04 in.) = Steering angle approximately 1 deg.**

HINT:

Make a note of the steering angle.

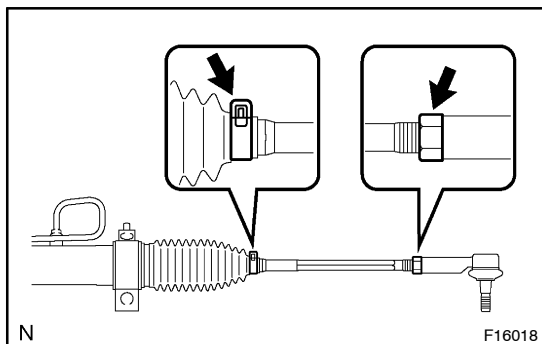


2. ADJUST STEERING ANGLE

- (a) Draw a line on the RH and LH tie rod and rack ends where it can easily be seen.
- (b) Using a paper gauge, measure the distance from RH and LH tie rod ends to the rack end screws.

HINT:

- Measure the RH side and LH side.
- Make a note of the measured values.



- (c) Remove the RH and LH boot clips from the rack boots.
- (d) Loosen the RH and LH lock nuts.
- (e) Turn the RH and LH rack end by the same amount (but in different directions) according to the steering angle.
- 1 turn 360 deg. of rack end (1.5 mm (0.059 in.) horizontal movement) = 12 deg. of steering angle**
- (f) Tighten the RH and LH lock nuts.
- Torque: 55 N·m (560 kgf·cm, 41 ft·lbf)**

NOTICE:

Make sure that the difference in length between RH and LH tie rod ends and rack end screws are within 3.0 mm (0.118 in.).

- (g) Install the RH and LH boot clips.
- (h) Perform the steering angle adjustment ([See page DI-100](#) step 4 to 7).
- (i) Perform the zero point calibration of yaw rate and deceleration sensors (See Pub. No. RM970E, page DI-185).