

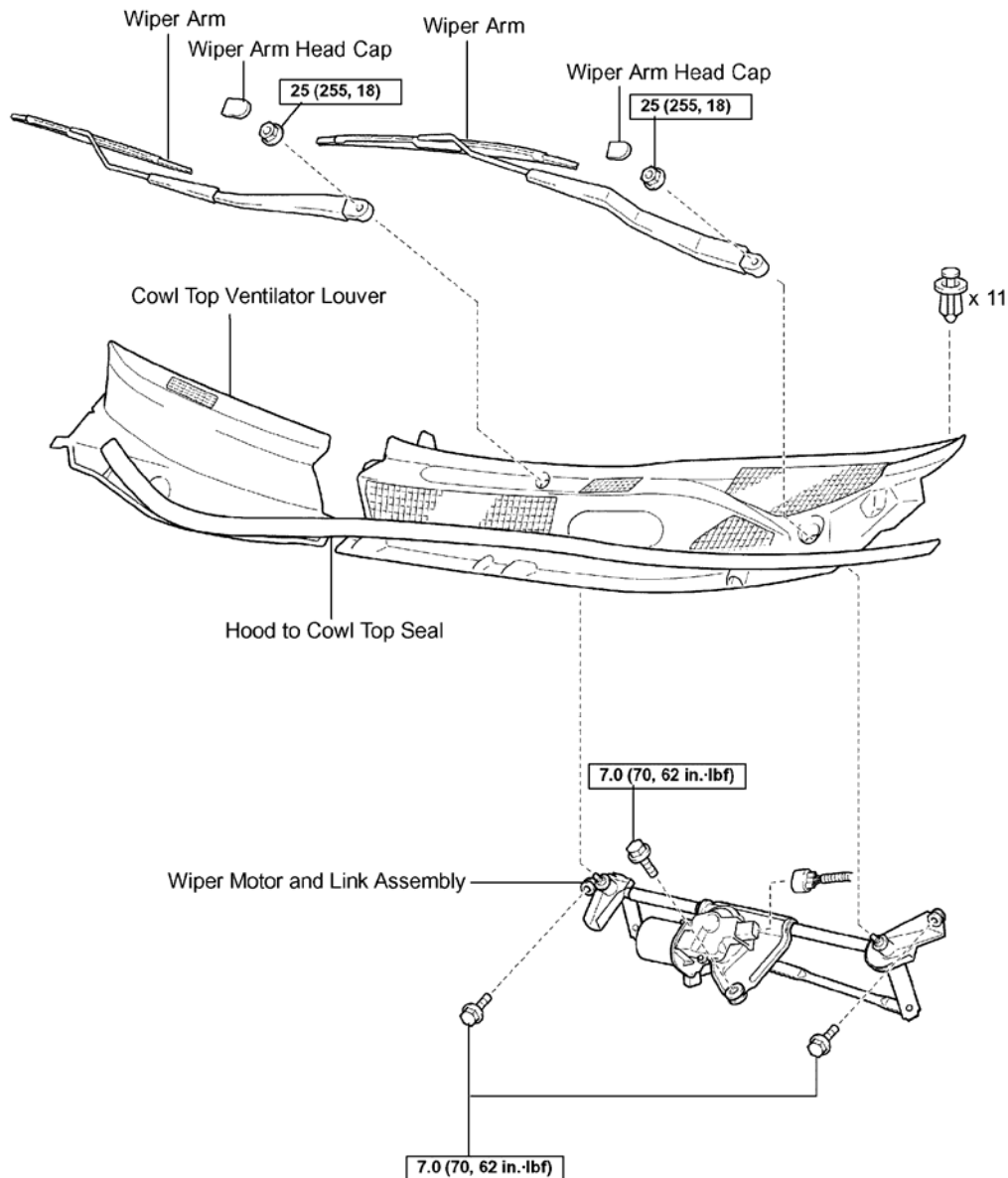
## 2004 Toyota RAV4

### 2004 ACCESSORIES & EQUIPMENT Front Wiper & Washer - RAV4

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## COMPONENTS



N·m (kgf·cm, ft·lbf) : Specified torque

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**Fig. 1: Identifying Front Wiper And Washer Components**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

**REMOVAL****HINT:**

A bolt without a torque specification is shown in the standard bolt chart. (See **SPECIFIED TORQUE FOR STANDARD BOLTS** )

- 1. REMOVE WIPER ARM HEAD CAPS AND FRONT WIPER ARMS**
- 2. REMOVE COWL TOP VENTILATOR LOUVER AND HOOD TO COWL TOP SEAL**
- 3. REMOVE FRONT WIPER MOTOR AND LINK ASSEMBLY**
  - a. Disconnect the connector, then unfasten the 3 bolts.
  - b. Remove the wiper motor and link assembly.

**INSPECTION****INSPECT FRONT WASHER NOZZLE**

- a. While operating the washer, check that the distance between the point where the washer fluid from the nozzles hits the windshield and the upsurge area is within the range indicated by the hatched line.

**A: Approx. 400 mm (15.75 in.)**

**B: Approx. 65.1 mm (2.56 in.)**

**C: Approx. 101.5 mm (3.99 in.)**

**D: Approx. 68.2 mm (2.69 in.)**

**E: Approx. 4.5 mm (0.18 in.)**

- b. Check if the lower point where the washer fluid hits the windshield is within the range of the wiping pattern (the area of the glass which is wiped by the wiper blades).

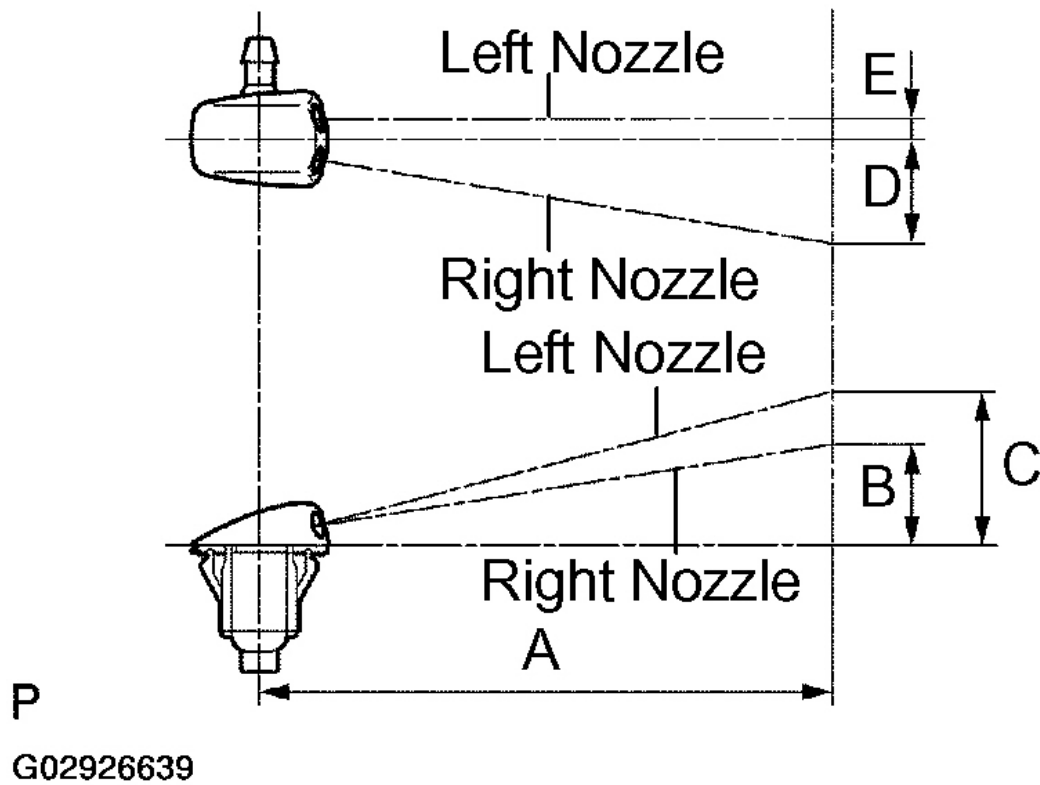


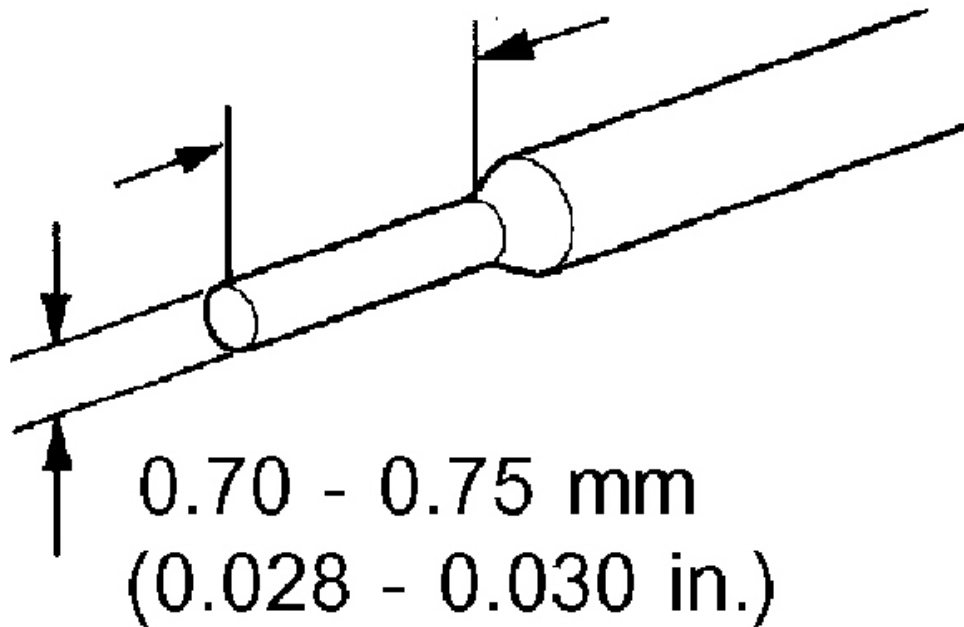
**Fig. 2: Inspecting Front Washer Nozzle Specifications**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

## ADJUSTMENT

### ADJUST FRONT WASHER NOZZLE

Using a tool like the one shown in **Fig. 3**, change the direction of the nozzle hole to adjust the point where washer fluid hits the windshield.

2.0 - 2.5 mm  
(0.079 - 0.098 in.)



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**Fig. 3: Adjusting Front Washer Nozzle**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

## INSTALLATION

### 1. INSTALL WIPER MOTOR AND LINK ASSEMBLY

- Install the wiper motor and link assembly, then torque the 3 bolts.

**Torque: 7.0 N.m (70 kgf.cm, 62 in.lbf)**

- Connect the connector.

### 2. INSTALL COWL TOP VENTILATOR LOUVER AND HOOD TO COWL TOP SEAL

### 3. INSTALL WIPER ARMS

- Operate the wipers once and turn the wiper switch OFF.

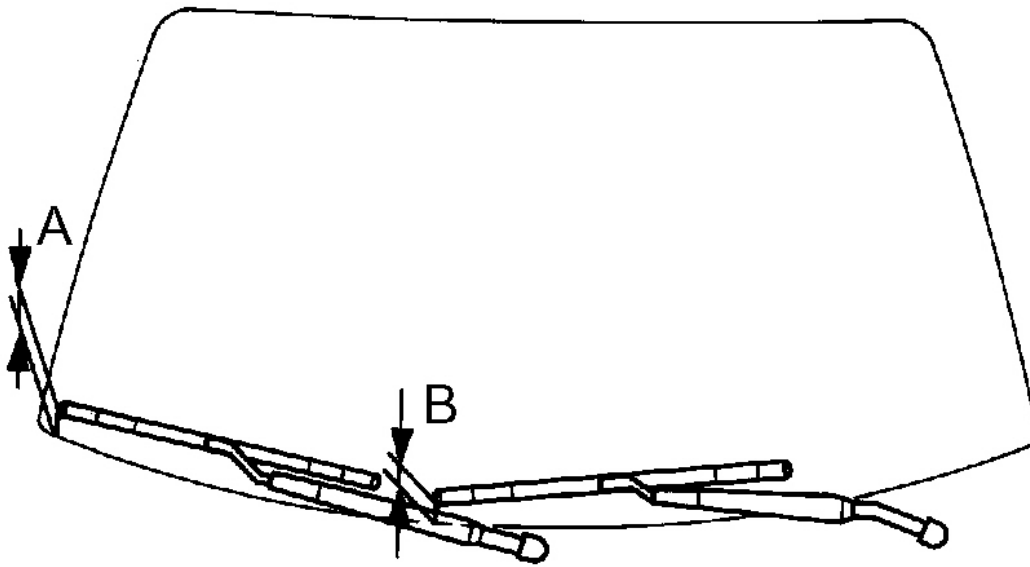
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- b. Install the wiper arms and torque the 2 nuts by hand.
- c. Adjust the installation positions of the wiper arms to the positions as shown in **Fig. 4**.

**A: Approx. 25 mm (0.98 in.)**

**B: Approx. 30 mm (1.18 in.)**



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**Fig. 4: Adjusting Wiper Arm Positions**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Torque the 2 nuts.

**Torque: 25 N.m (255 kgf.cm, 18 ft.lbf)**

- e. Install the wiper arm head caps.