

## GENERATOR > INSPECTION

for Preparation [Click here](#)

### 1. INSPECT GENERATOR ROTOR ASSEMBLY

a. Check the generator rotor for an open circuit.

i. Measure the resistance according to the value(s) in the table below.

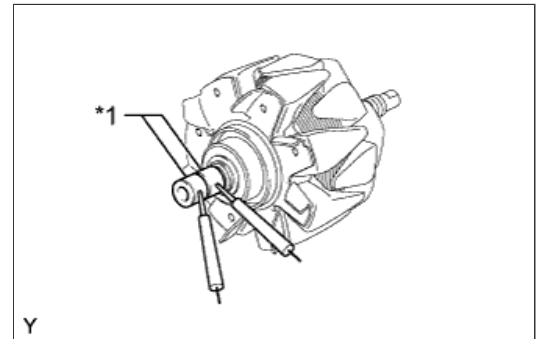
#### Standard Resistance:

Tester Connection	Condition	Specified Condition
Slip ring - Slip ring	20°C (68°F)	1.5 to 1.9 Ω

#### Text in Illustration

*1	Slip Ring
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If the result is not as specified, replace the generator rotor assembly.



b. Check if the generator rotor is grounded.

i. Measure the resistance according to the value(s) in the table below.

#### Standard Resistance:

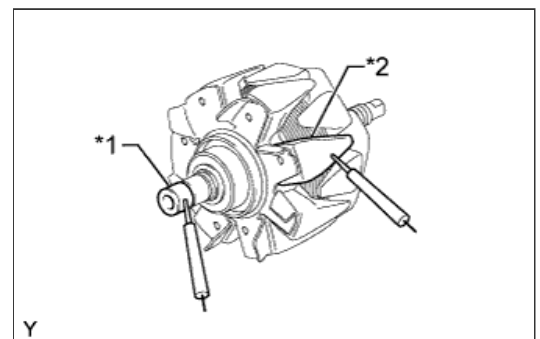
Tester Connection	Condition	Specified Condition
Slip ring - Rotor core	Always	10 kΩ or higher

#### Text in Illustration

*1	Slip Ring
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*2	Rotor Core
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If the result is not as specified, replace the generator rotor assembly.



c. Using a vernier caliper, measure the slip ring diameter.

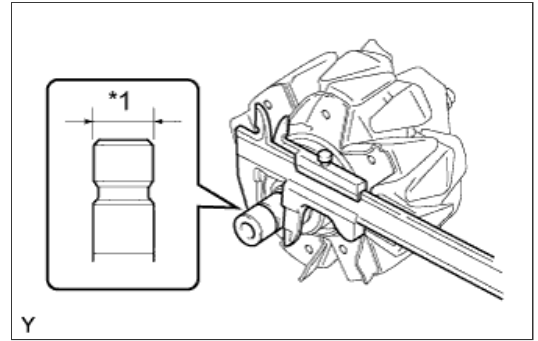
**Standard diameter:**  
14.2 to 14.4 mm (0.559 to 0.567 in.)

**Minimum diameter:**  
14.0 mm (0.551 in.)

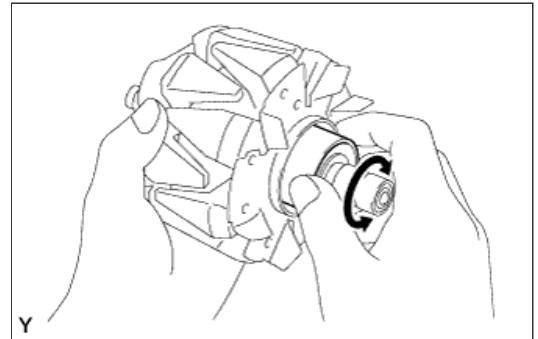
**Text in Illustration**

*1	Diameter
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If the diameter is less than the minimum, replace the generator rotor assembly.



- d. Check that the generator rotor bearing is not rough or worn.  
If necessary, replace the generator rotor assembly.



**2. INSPECT GENERATOR BRUSH HOLDER ASSEMBLY**

- a. Using a vernier caliper, measure the brush length.

**Standard exposed length:**  
9.5 to 11.5 mm (0.374 to 0.453 in.)

**Minimum exposed length:**  
4.5 mm (0.177 in.)

**Text in Illustration**

*1	Length
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If the brush length is less than the minimum, replace the generator brush holder assembly.

