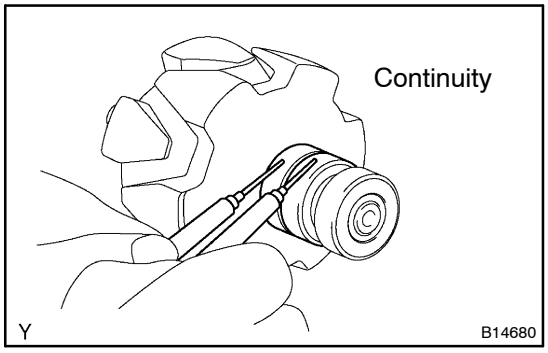
CH0IR–02

INSPECTION

1. INSPECT ROTOR

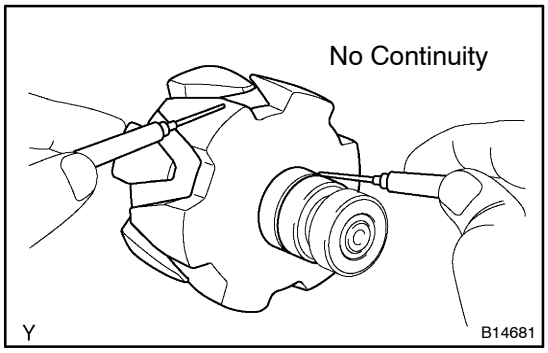
(a) Check the rotor for open circuit.
Using an ohmmeter, check that there is continuity between the slip rings.
Standard resistance: 8.8 – 9.2 Ω at 20°C (68°F)

If there is no continuity, replace the rotor.



(b) Check the rotor for ground.
Using an ohmmeter, check that there is no continuity between the slip ring and rotor.

If there is continuity, replace the rotor.

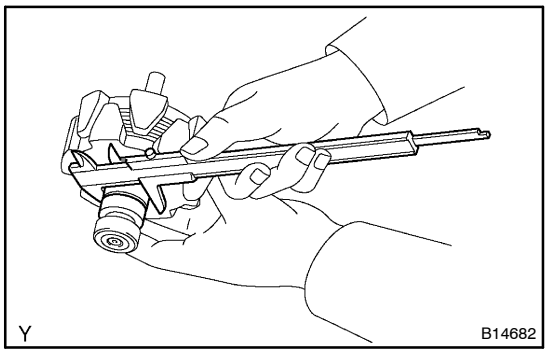


(c) Check that the slip rings are not rough or scored.

If rough or scored, replace the rotor.

(d) Using vernier calipers, measure the slip ring diameter.
Standard diameter: 42.3 – 42.5 mm (1.665 – 1.673 in.)
Minimum diameter: 42.1 mm (1.657 in.)

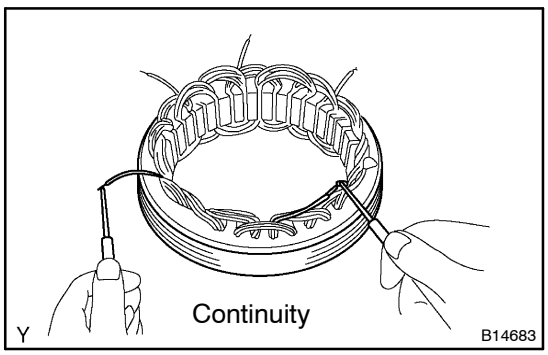
If the diameter is less than minimum, replace the rotor.



2. INSPECT STATOR

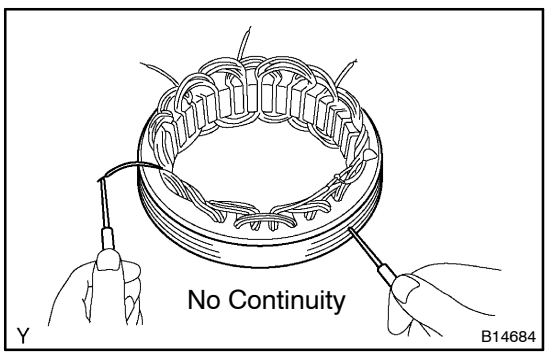
(a) Check the stator for open circuit.
Using an ohmmeter, check that there is continuity between the coil leads.

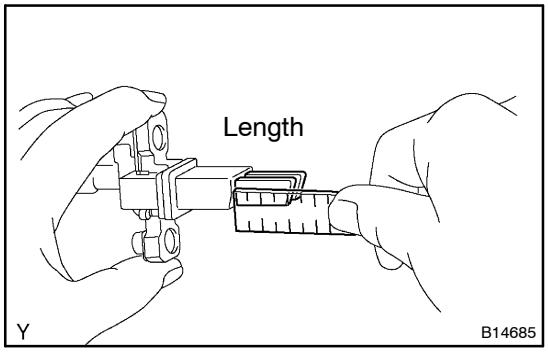
If there is no continuity, replace the stator.



(b) Check the stator for ground.
Using an ohmmeter, check that there is no continuity between the coil lead and stator core.

If there is continuity, replace the stator.





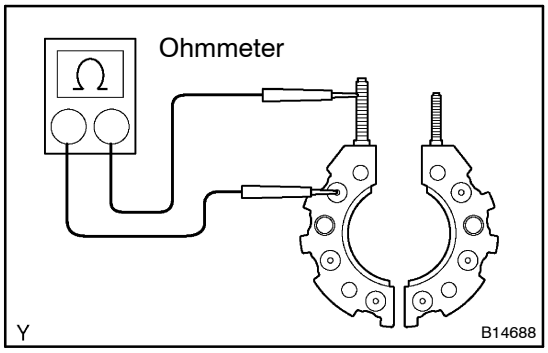
3. INSPECT BRUSHES

Using a scale, measure the exposed brush length.

Standard exposed length: 20.0 mm (0.787 in.)

Minimum exposed length: 5.5 mm (0.217 in.)

If the exposed length is less than minimum, replace the brushes (See page CH–6).



4. INSPECT RECTIFIERS

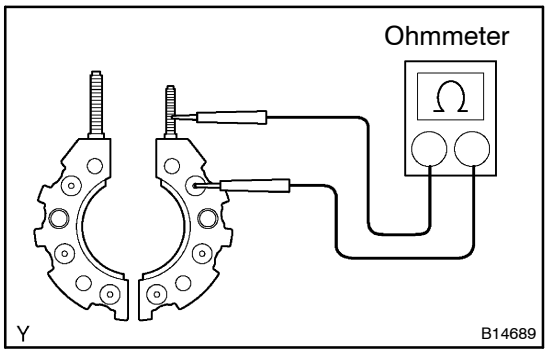
(a) Check the positive (+) rectifire.

(1) Using an ohmmeter, connect one tester probe to the positive (+) terminal and the other to each rectifier terminal.

(2) Reverse the polarity of the tester probes and repeat step (a).

(3) Check that one shows continuity and the other shows no continuity.

If continuity is not as specified, replace the rectifier.



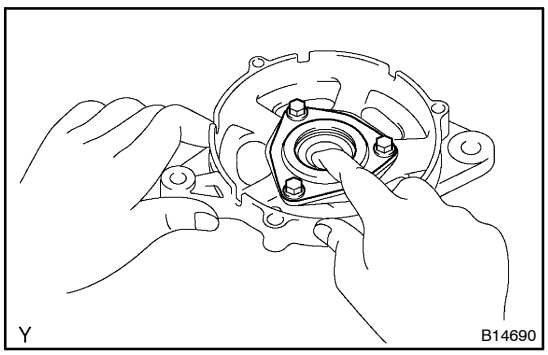
(b) Check the negative (–) rectifire.

(1) Using an ohmmeter, connect one tester probe to each negative (–) terminal and the other to each rectifier terminal.

(2) Reverse the polarity of the tester probes and repeat step (a).

(3) Check that one shows continuity and the other shows no continuity.

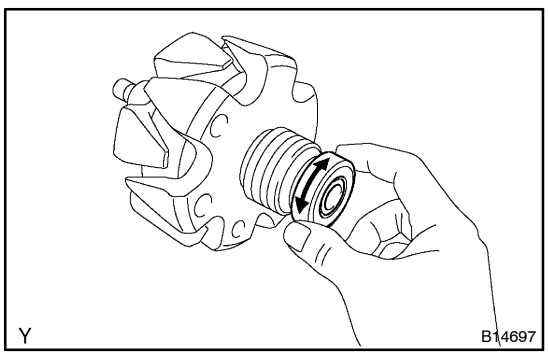
If continuity is not as specified, replace the rectifier.



5. INSPECT FRONT BEARING

Check that the front bearing is not rough or worn.

If necessary, replace the bearing (See page CH–6).



6. INSPECT REAR BEARINGS

Check that the rear bearing is not rough or worn.

If necessary, replace the bearing (See page CH–6).