



TROUBLESHOOTING

BATTERY IS NOT CHARGED.

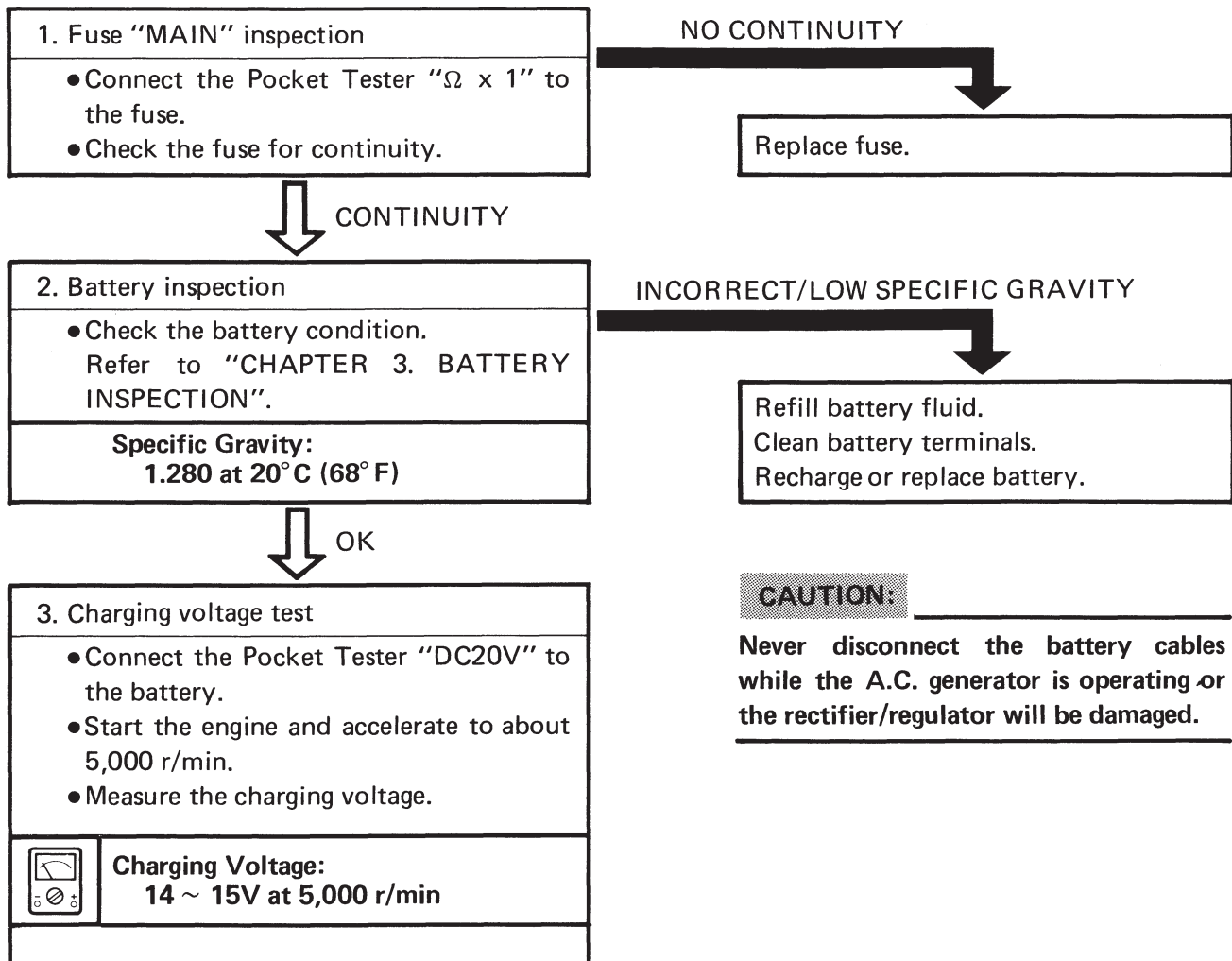
Procedure

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Fuse "MAIN" inspection</li> <li>2. Battery inspection</li> <li>3. Charging voltage test</li> <li>4. Charging coil resistance test</li> <li>5. Brush inspection</li> </ol> | <ol style="list-style-type: none"> <li>6. Field coil (Rotor) resistance test</li> <li>7. Wiring connection check<br/>(Entire charging system)</li> </ol> |
|---|--|

NOTE:

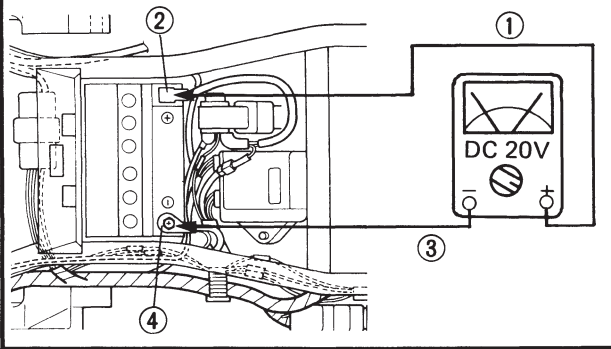
Remove the following before troubleshooting.

- Side cowling (Left)
- Seat
- Side cover (Left)





- ① Positive lead (Pocket Tester)
- ② Positive terminal (Battery)
- ③ Negative lead (Pocket Tester)
- ④ Negative terminal (Battery)



CHARGING VOLTAGE  
MEETS SPECIFICATION

Replace battery.

LESS THAN 13V

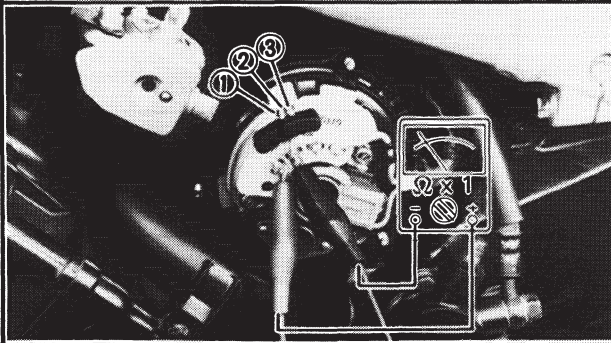
MORE THAN 15V

4. Stator coil resistance test

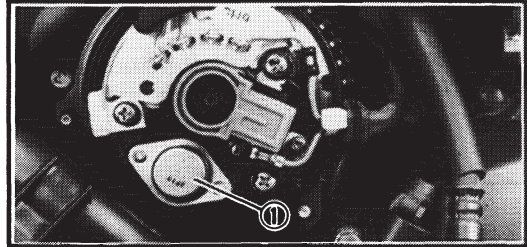
- Remove the generator cover.
- Connect the Pocket Tester " $\Omega \times 1$ " to the stator coils.
- Measure the stator coil resistances.



**Stator Coil Resistance:**  
(White ① – White ②, White ① –  
White ③, White ② – White ③ )  
0.16 ~ 0.18 $\Omega$  at 20°C (68°F)



Replace rectifier with regulator ①.



OUT OF SPECIFICATION

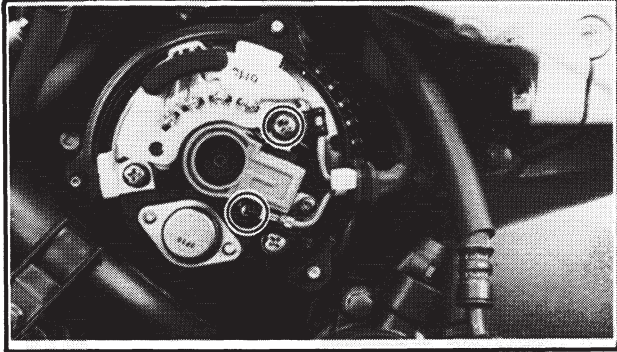
Replace stator assembly.



5. Brush inspection

- Remove the brush holder.
- Inspect the brush spring.
- Measure the brush length.

 **Minimum Brush Length:**  
5 mm (0.2 in)



WEAR/DAMAGE  
OUT OF SPECIFICATION




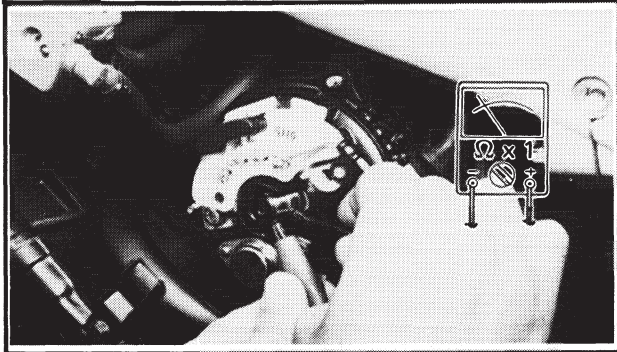
Replace brush and/or spring.



6. Field coil (Rotor) resistance test

- Connect the Pocket Tester " $\Omega \times 1$ " to the rotor.
- Measure the resistance.

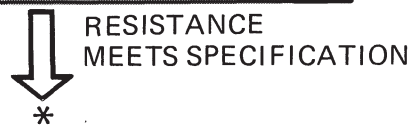
 **Field Coil (Rotor) Resistance:**  
3.8 ~ 4.2 $\Omega$  at 20°C (68°F)



OUT OF SPECIFICATION



Replace field coil (Rotor).





7. Wiring connection check

- Entire the charging system  
Refer to "WIRING DIAGRAM".

POOR CONNECTION



Correct connection(s).



Rectifier/Regulator is faulty.  
Replace the rectifier/regulator.