TROUBLESHOOTING

BATTERY IS NOT CHARGED.

Procedure

- 1. Fuse "MAIN" inspection
- 2. Battery inspection
- 3. Charging voltage test
- 4. Charging coil resistance test
- 5. Brush inspection

- 6. Field coil (Rotor) resistance test
- 7. Wiring connection check (Entire charging system)

NOTE: _

Remove the following before troubleshooting.

- Side cowling (Left)
- Seat
- Side cover (Left)
 - 1. Fuse "MAIN" inspection
 - Connect the Pocket Tester " Ω x 1" to the fuse.
 - Check the fuse for continuity.



- 2. Battery inspection
 - Check the battery condition.
 Refer to "CHAPTER 3. BATTERY INSPECTION".

Specific Gravity: 1.280 at 20°C (68°F)



- 3. Charging voltage test
 - Connect the Pocket Tester "DC20V" to the battery.
 - •Start the engine and accelerate to about 5,000 r/min.
 - Measure the charging voltage.



Charging Voltage:

14 \sim 15V at 5,000 r/min

NO CONTINUITY

Replace fuse.

INCORRECT/LOW SPECIFIC GRAVITY

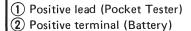
Refill battery fluid. Clean battery terminals. Recharge or replace battery.

CAUTION:

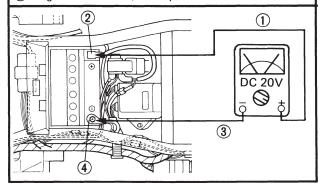
Never disconnect the battery cables while the A.C. generator is operating or the rectifier/regulator will be damaged.

CHARGING SYSTEM





- 3 Negative lead (Pocket Tester)
- 4 Negative terminal (Battery)



CHARGING VOLTAGE MEETS SPECIFICATION

Replace battery.

MORE THAN 15V

LESS THAN 13V

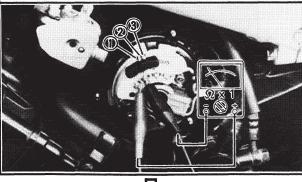
4. Stator coil resistance test

- Remove the generator cover.
- Connect the Pocket Tester " Ω x 1" to the stator coils.
- Measure the stator coil resistances.

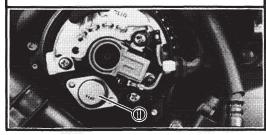


Stator Coil Resistance:

(White \bigcirc – White \bigcirc , White \bigcirc – White ③, White ② — White ③) $0.16 \sim 0.18\Omega$ at 20°C (68°F)



Replace rectifier with regulator ①.



OUT OF SPECIFICATION

Replace stator assembly.

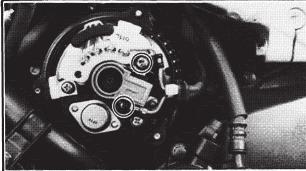




- 5. Brush inspection
 - Remove the brush holder.
 - Inspect the brush spring.
 - Measure the brush length.



Minimum Brush Length: 5 mm (0.2 in)



WEAR/DAMAGE OUT OF SPECIFICATION

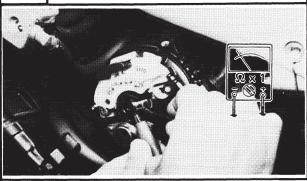
Replace brush and/or spring.



- 6. Field coil (Rotor) resistance test
 - Connect the Pocket Tester " Ω x 1" to the rotor.
 - Measure the resistance.



Field Coil (Rotor) Resistance: 3.8 \sim 4.2 Ω at 20°C (68°F)



RESISTANCE MEETS SPECIFICATION

OUT OF SPECIFICATION

Replace field coil (Rotor).



- 7. Wiring connection check
 - Entire the charging system
 Refer to "WIRING DIAGRAM".



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

POOR CONNECTION

Correct connection(s).