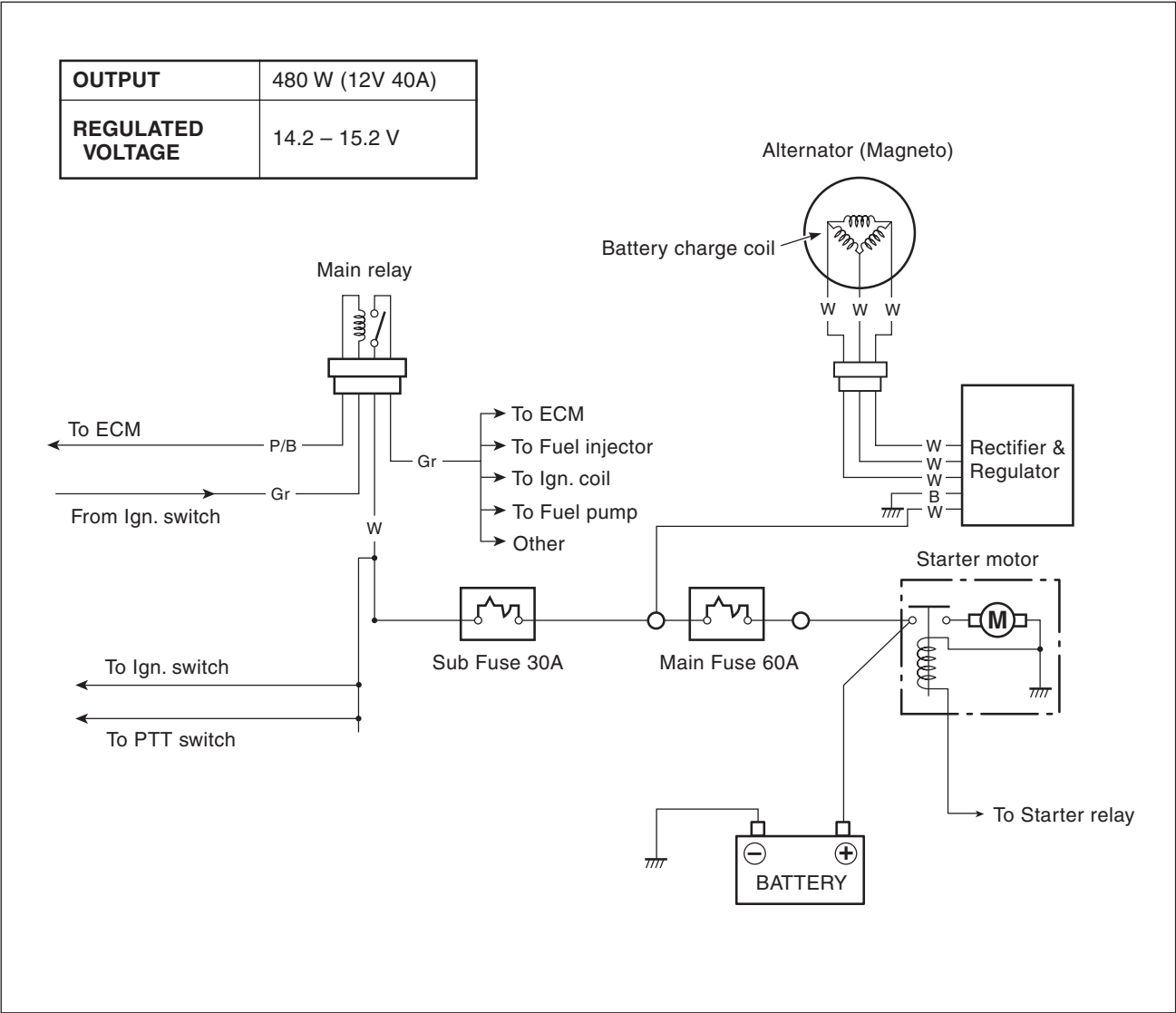


BATTERY CHARGING SYSTEM

OUTLINE

The battery charging system circuit is illustrated below.
It is composed of the BATTERY CHARGE COIL, RECTIFIER & REGULATOR and BATTERY.
The three phase AC current generated from battery charge coil is converted by the rectifier & regulator into regulated DC current which is used to charge the battery.



INSPECTION

BATTERY CHARGE COIL

Measure battery charge coil resistance.



09930-99320 : Digital tester



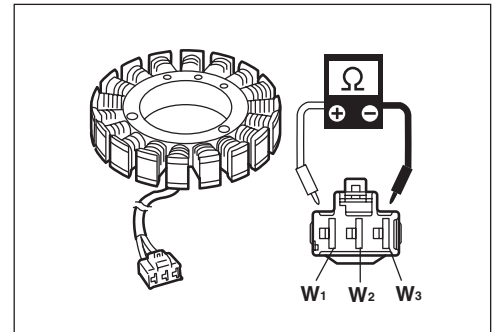
Tester range : Ω (Resistance)

1. Disconnect battery charge coil leads from rectifier & regulator.
2. Measure resistance between leads in the combinations shown.

Battery charge coil resistance :

Terminal for tester probe connection	Resistance
White 1 to White 2	0.16 – 0.24 Ω
White 2 to White 3	
White 3 to White 1	

If out of specification, replace battery charge coil.



FUSE CASE / FUSE



09930-99320 : Digital tester



Tester range : $\rightarrow \infty \leftarrow$ (Continuity)

Fuse

1. Remove fuse from fuse case (or fuse terminal).
2. Inspect continuity between both terminals of fuse.
If no continuity is exists, replace fuse.

Main fuse : 60A

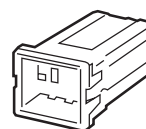
Sub fuse : 30A

Main fuse terminal

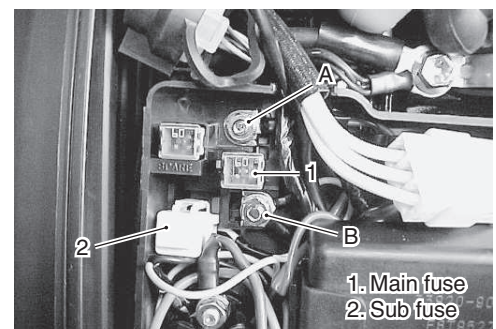
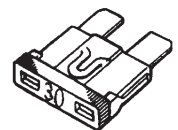
Inspect continuity between terminal (A) and (B).

If no continuity is exists, replace fuse terminal and/or fuse.

Main fuse



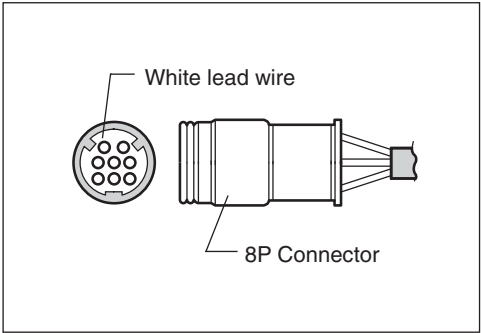
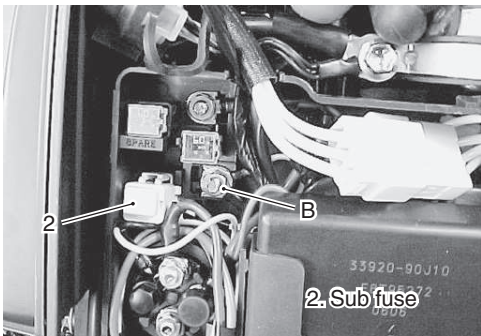
Sub fuse



4-4 ELECTRICAL

Sub fuse case

- 1. Disconnect white lead wire of fuse case from terminal (B).
 - 2. Inspect continuity between White lead wire with plate terminal and White lead wire of main harness 8P connector.
- If no continuity is exists, replace main harness and/or fuse.



RECTIFIER & REGULATOR

 09900-25010 : Pocket tester

 Tester range : $\times 1 \text{ k}\Omega$ (Resistance)

- 1. Disconnect all lead wires of rectifier & regulator.
- 2. Measure resistance between leads in combinations shown.

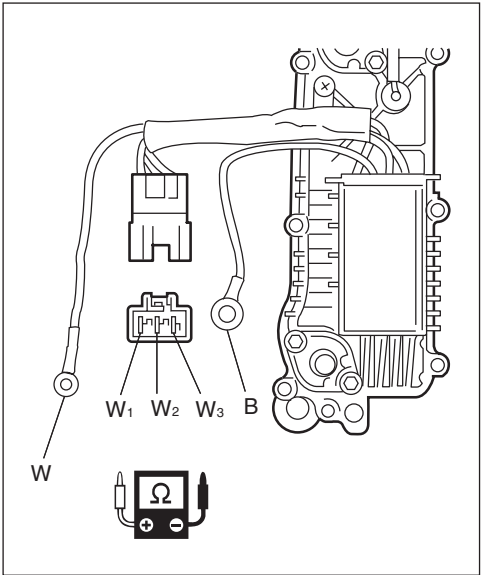
NOTE:

The values given below are for a SUZUKI pocket tester.
As thyristors, diodes, etc. are used inside this rectifier & regulator, the resistance values will differ when an ohmmeter other than SUZUKI pocket tester is used.

Rectifier & regulator resistance :

Unit : Approx. $\text{k}\Omega$

		Tester probe $\oplus$ (Red)				
Tester probe $\ominus$ (Black)		Black	White	White 1	White 2	White 3
	Black		1~20	0.5~100	0.5~100	0.5~100
	White	3~60		4~80	4~80	4~80
	White 1	4~80	0.5~10		5~100	5~100
	White 2	4~80	0.5~10	5~100		5~100
	White 3	4~80	0.5~10	5~100	5~100	



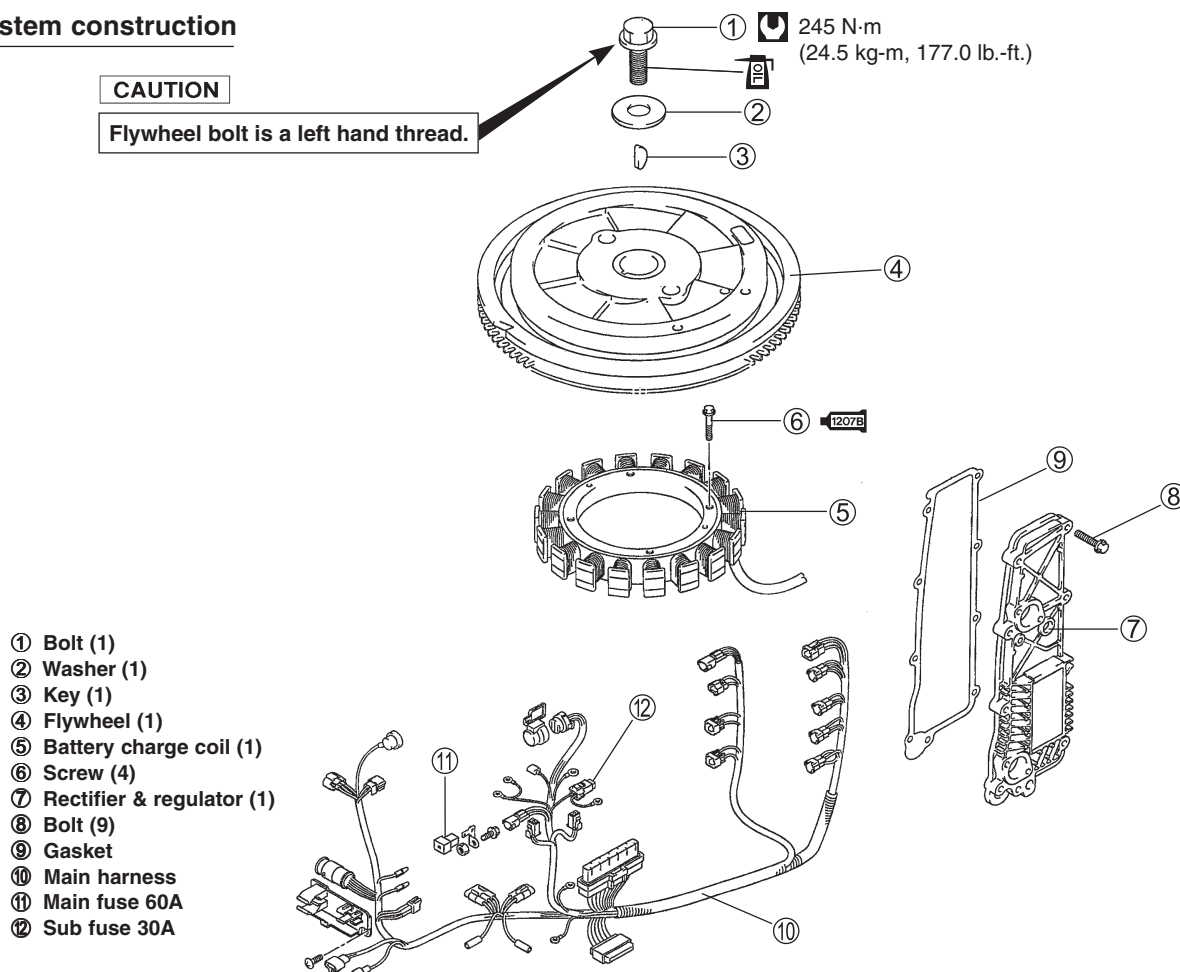
If measurement exceeds specification, replace rectifier & regulator.

REMOVAL / INSTALLATION

System construction

CAUTION

Flywheel bolt is a left hand thread.



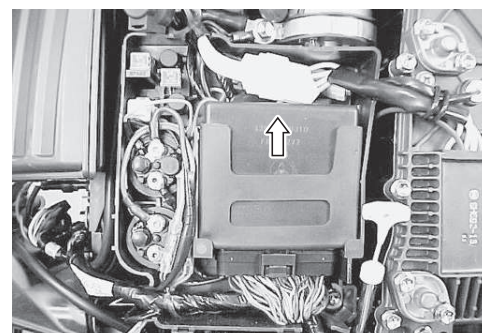
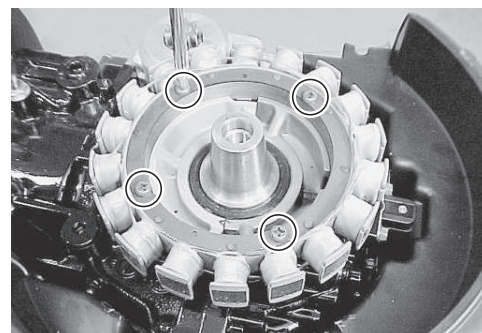
REMOVAL

Prior to removing electrical parts :

- Disconnect battery cables from battery.

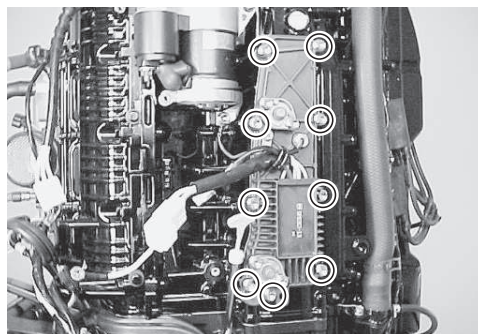
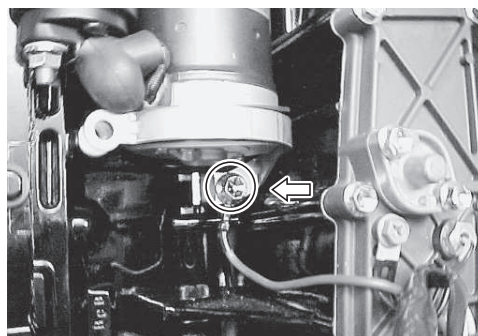
Battery charge coil

1. Remove flywheel. (See page 3-51)
2. Remove four screws securing battery charge coil.
3. Disconnect battery charge coil lead wire connector from rectifier & regulator.
4. Remove battery charge coil.



Rectifier & regulator

1. Remove electric parts holder. (See page 4-25)
2. Remove bolt securing ground lead wire of Rectifier & regulator.
3. Remove bolts securing exhaust cover (Rectifier & regulator).
4. Remove exhaust cover with rectifier & regulator.



INSTALLATION

Installation is reverse order of removal with special attention to the following step.

Battery charge coil

Apply Suzuki Bond to coil securing screws.

 **99000-31140 : Suzuki Bond 1207B**

Wire routing

Check wire routing. (See page 10-2 to 10-7)

