

GENERATOR

STARTING/CHARGING

2. Generator

The generator has a built-in regulator which provides diagnostic functions in addition to a voltage regulating function as follows:

1) Voltage regulation

The on-off operation of transistor connects and disconnects the field current circuit, providing a constant level of output voltage.

2) Diagnosis warning

When any of the following problems occur, the charge lamp illuminates.

(1) No voltage generation

Brush wear exceeds specified wear limits, field coil circuit is broken, etc.

(2) Excessive output

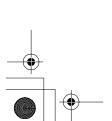
Output voltage is greater than (approx) 16 volts.

(3) Terminal B disconnection

Harness is disconnected from generator terminal B.

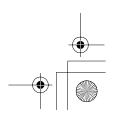
(4) Terminal S disconnection

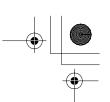
Harness is disconnected from generator terminal S. In this case, voltage is slightly greater than specified regulated voltage; however, voltage regulation is still controlled and the battery is prevented from becoming overcharged.





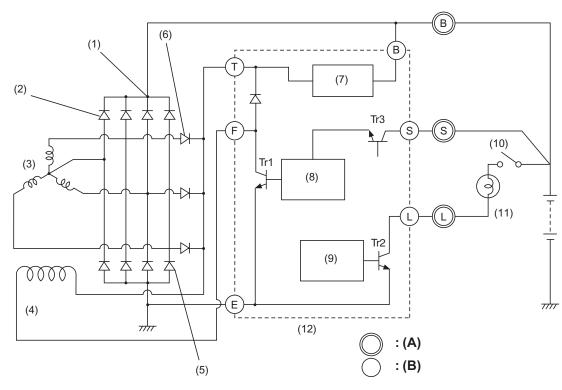




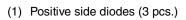


STARTING/CHARGING

GENERATOR



SC-00057



- (2) Additional diodes (2 pcs.)
- (3) Stator coil
- (4) Field coil
- (5) Negative side diodes (3 pcs.)
- (6) Trio diodes (3 pcs.)
- (7) Energizing circuit
- (8) Constant voltage circuit
- (9) Diagnostic and warning circuit
- (10) Ignition switch
- (11) Charge light
- (12) IC regulator

- (A) Generator terminal
- (B) Regulator terminal



