GENERATOR

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 Tr_1 connects and disconnects the field current circuit, providing a constant level of output voltage.

2) Diagnosis warning

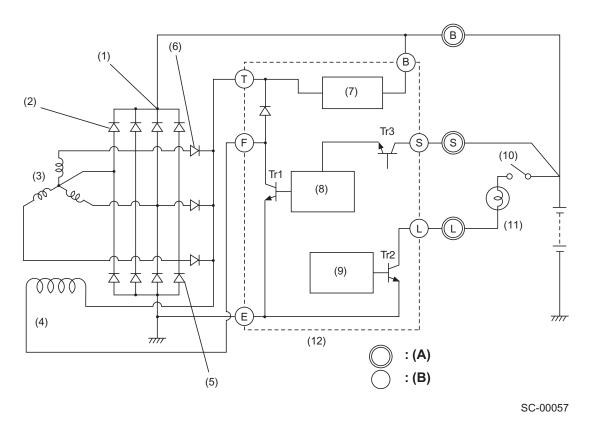
When any of the following problems occur, the charge lamp illuminates.

- a. No voltage generation Brush wear exceeds specified wear limits, field coil circuit is broken, etc.
- Excessive output
 Output voltage is greater than 16 volts (approx.)
- c. Terminal B disconnection Harness is disconnected from alternator terminal B.
- d. Terminal S disconnection

Harness is disconnected from alternator 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.

GENERATOR

Starting/Charging



- (1) Positive side diodes (3 pcs.)
- (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) Alternator terminal (B) Regulator terminal