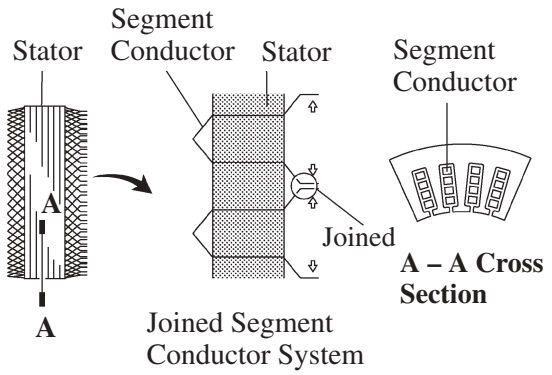
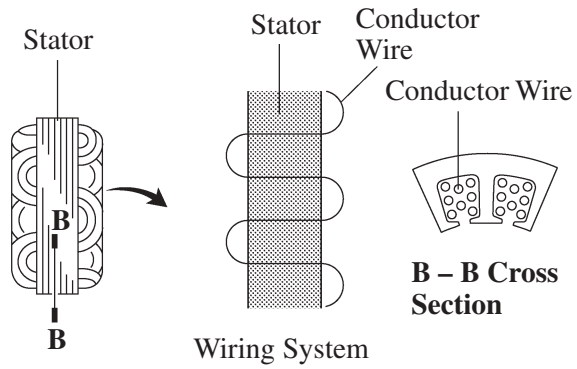
■CHARGING SYSTEM

1. General

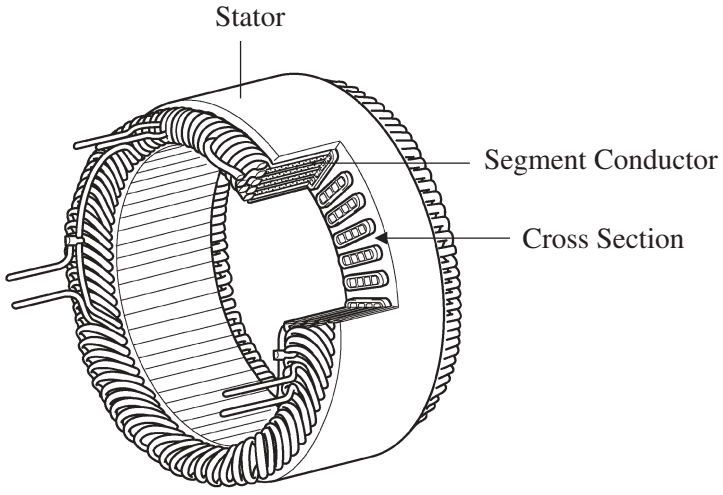
- Instead of the conventional type alternator, a compact and lightweight segment conductor type alternator is used. This type of alternator generates a high amperage output in a highly efficient manner.
- This alternator uses a joined segment conductor system, in which multiple segment conductors are welded together to the stator. Compared to the conventional winding system, the electrical resistance is reduced due to the shape of the segment conductors, and their arrangement helps to make the alternator more compact.



Segment Conductor Type Alternator



Conventional Type Alternator

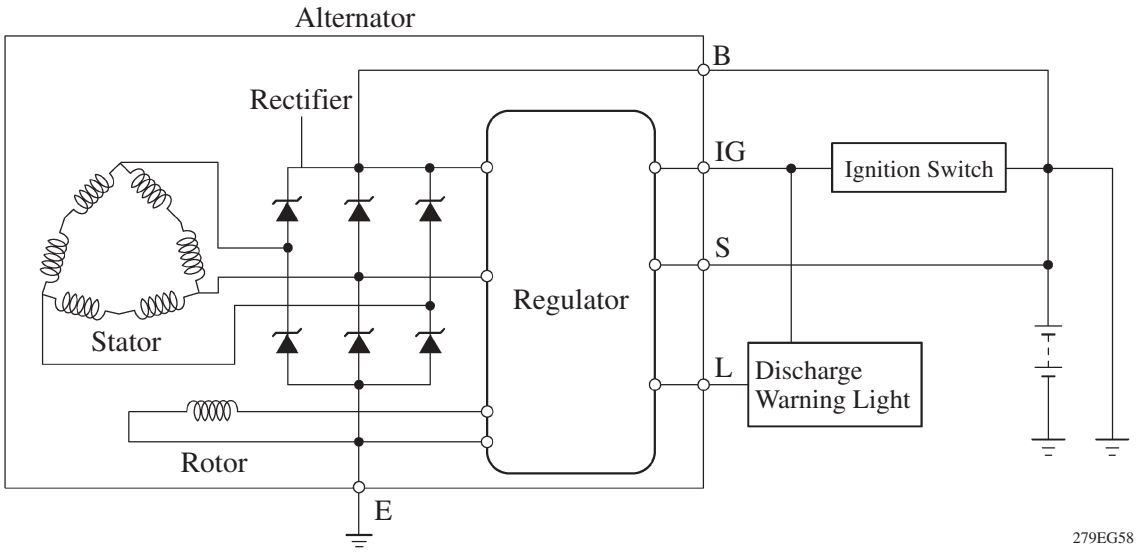


Stator of Segment Conductor Type Alternator

▶ Specifications ◀

Type	SE0
Rated Voltage	12 V
Output Rated	100 A

▶ Wiring Diagram ◀



Service Tip

Although the charging circuit of a conventional alternator is checked through the F terminal, this check cannot be performed on the Segment Conductor type alternator through the use of the F terminal because the F terminal has been eliminated. For details, refer to the Camry Repair Manual (Pub. No. RM0260E).

2. Alternator Pulley

A one-way clutch is set to the alternator pulley. Operation of the one-way clutch cancels alternator pulley inertia and helps to prevent slipping of the V-ribbed belt. This realizes a low tension V-ribbed belt that achieves reduced friction.

