■CHARGING SYSTEM

1. General

- A segment conductor type alternator is used.
- A one-way clutch function has been provided in the alternator pulley.

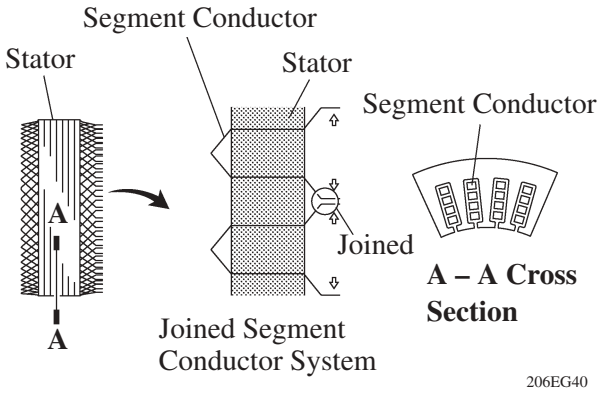
2. Segment Conductor Type Alternator

General

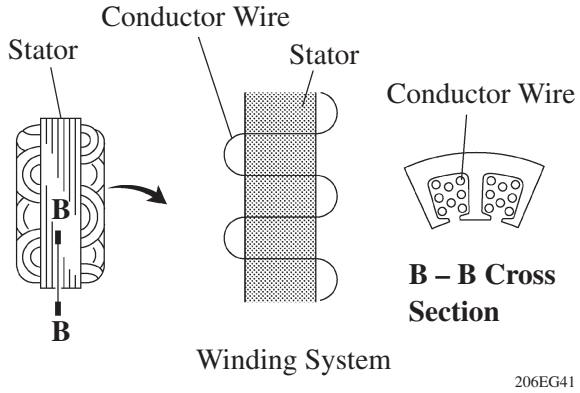
A compact and lightweight segment conductor type alternator that generates high amperage output in a highly efficient manner is used as standard equipment.

Construction

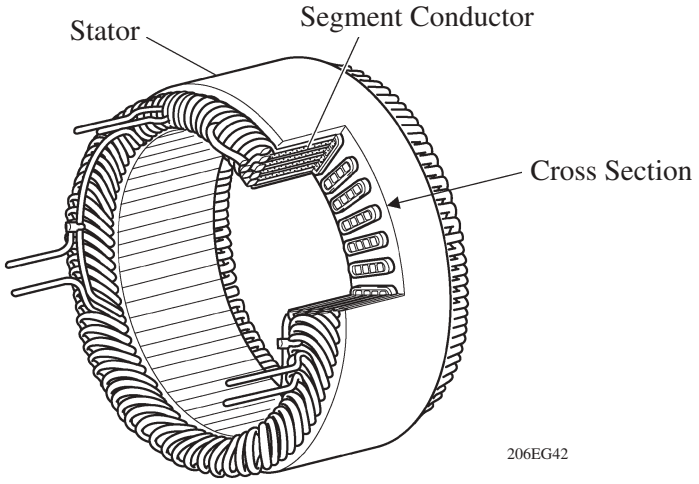
This alternator has a joined segment conductor system, in which multiple segment conductors are welded together to form the stator. Compared to the conventional winding system, the electrical resistance is reduced due to the shape of the segment conductors, and their arrangement helps to make the alternator more compact.



Segment Conductor Type Alternator



Conventional Type Alternator

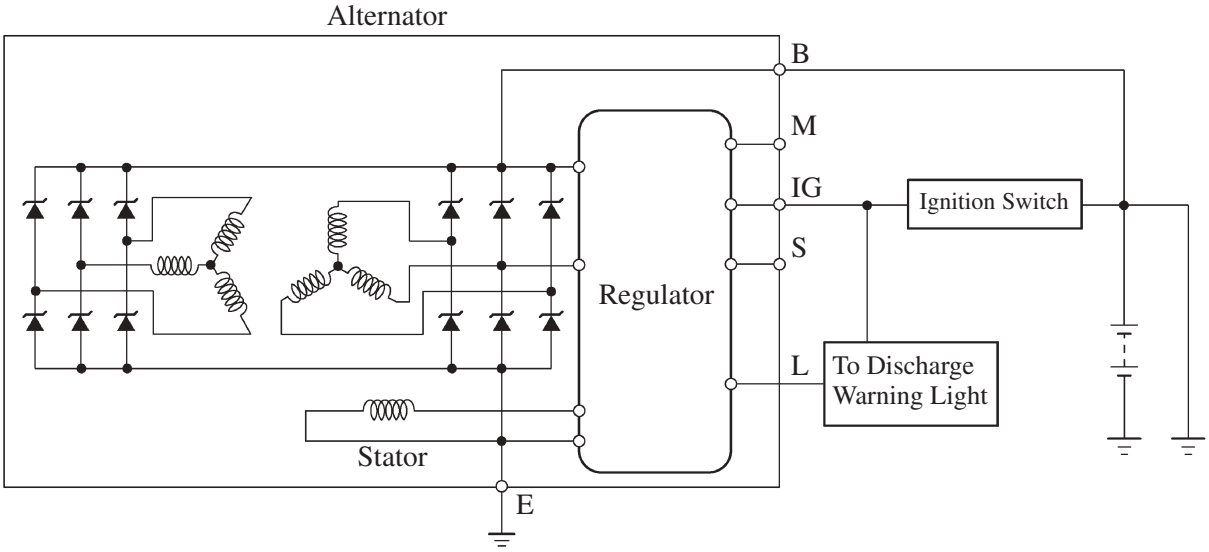


Stator of Segment Conductor Type Alternator

▶ Specifications ◀

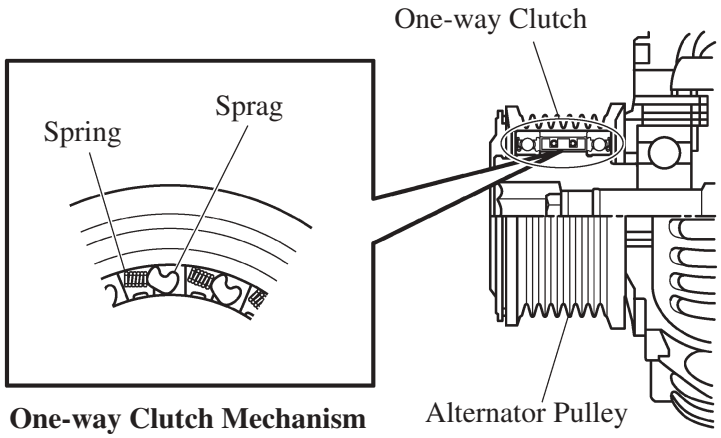
Type	SC1
Rated Voltage	12 V
Rated Output	130 A
Initial Output Starting Speed	1500 rpm max.

▶ Wiring Diagram ◀



Alternator Pulley

- A one-way clutch is used to the alternator pulley.
- The sprags and springs are placed circumferentially between the outer and inner rings of the alternator pulley.
- Operation of the one-way clutch (sprags and springs) 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.



One-way Clutch Mechanism