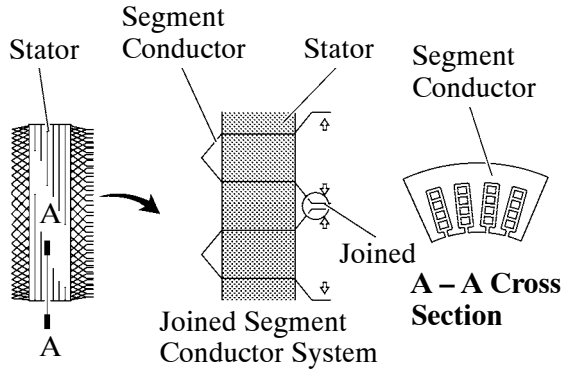
■CHARGING SYSTEM

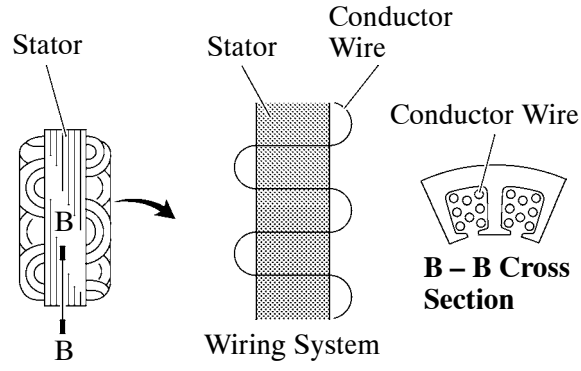
1. Alternator

- A compact and lightweight segment conductor type generator with regulator assembly that generates high amperage output in a highly efficient manner is used.
- This generator with regulator assembly 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.



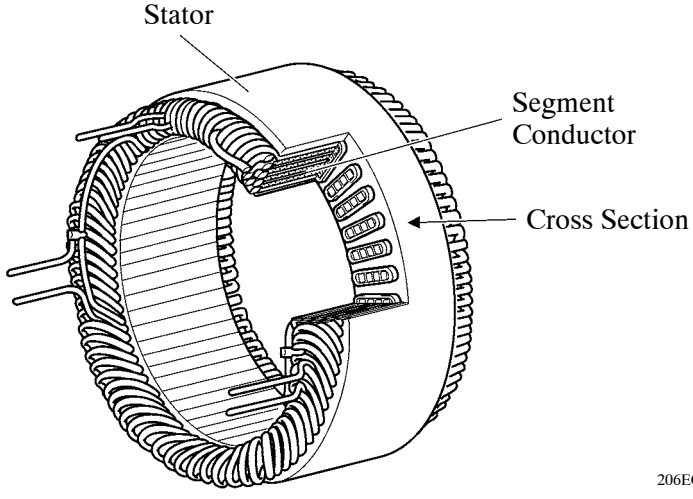
Segment Conductor Type Generator with Regulator Assembly

206EG40



Conventional Type Generator with Regulator Assembly

206EG41



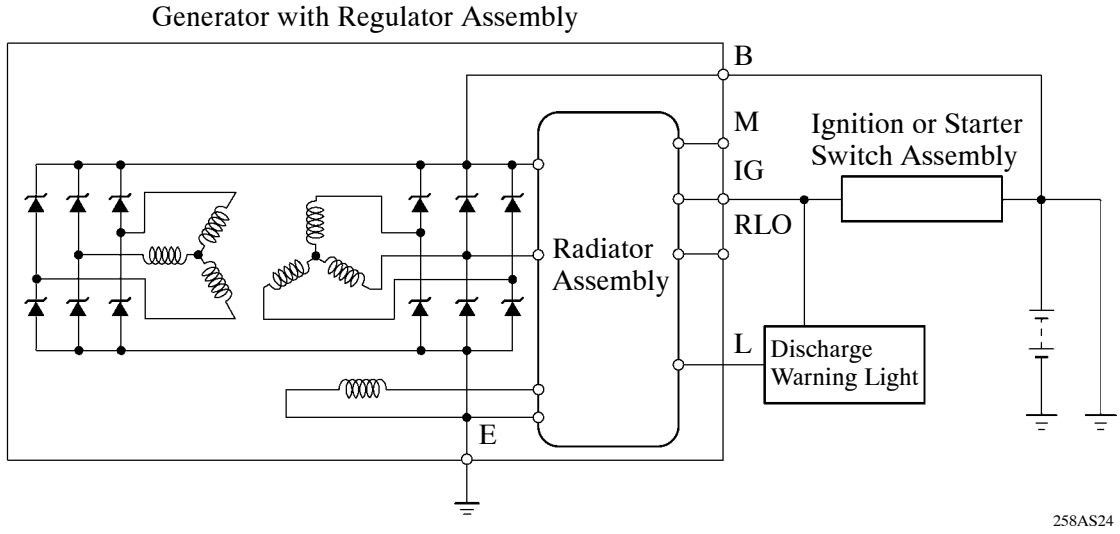
206EG42

Stator of Segment Conductor Type Generator with Regulator Assembly

▶ Specifications ◀

Type	SC1
Rated Voltage	12 V
Rated Output	130 A
Initial Output Starting Speed	1,300 rpm Max.

▶ Wiring Diagram ◀

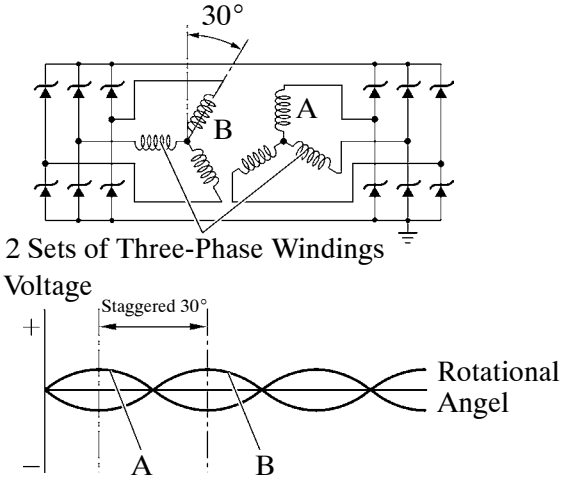


Service Tip

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 Repair Manual.

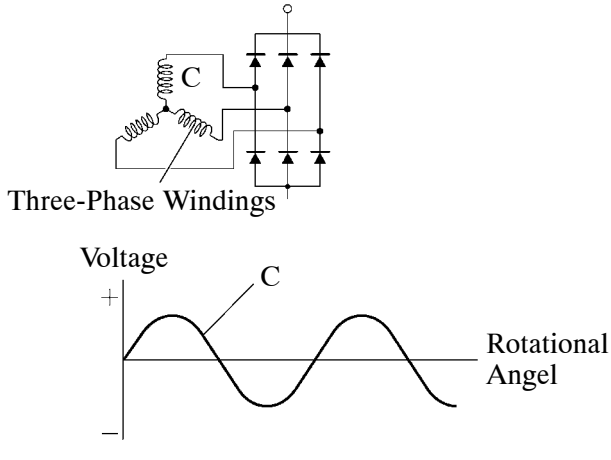
Dual Winding System

A dual winding system is used. This system consists of 2 sets of three-phase windings whose phases are staggered 30°. Because the magnetic fluctuations of the respective windings cancel each other out, magnetic noise and radio frequency interference are reduced.



198EG14

Segment Conductor Type Generator with Regulator Assembly

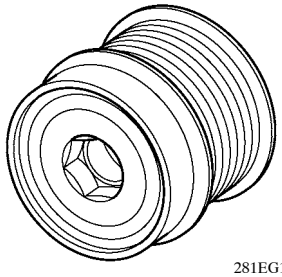


198EG15

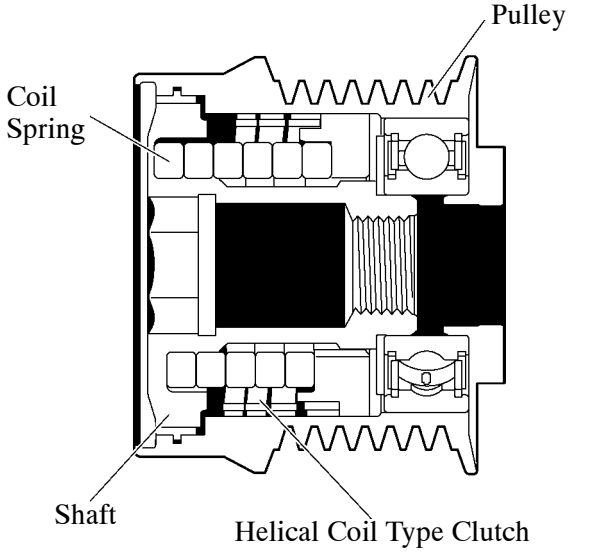
Conventional Type Generator with Regulator Assembly

2. Alternator Pulley

- A helical coil type one-way clutch is used in the generator with clutch pulley to absorb the fluctuations in the engine speed, thus significantly reducing the damage sustained by the drive belt.
- The pulley mounting nut and the generator with clutch pulley have been integrated to achieve a compact construction.



281EG12



281EG13

Service Tip

SST (09820-63020) has been newly established due to the adoption of a pulley with the one-way clutch function. For details, refer to the Repair Manual.