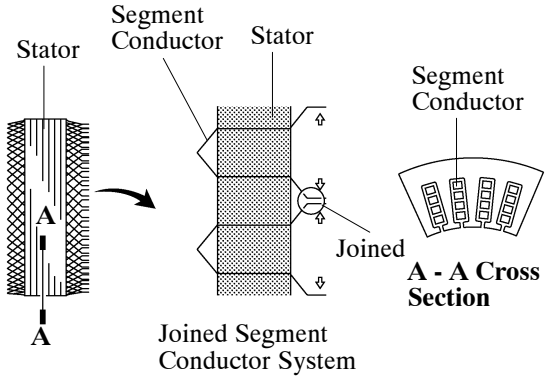
■CHARGING SYSTEM

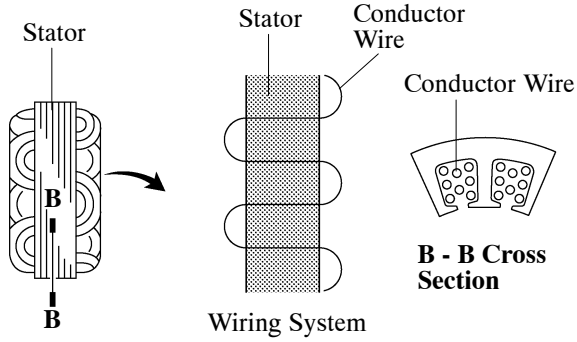
1. General

A compact and lightweight segment conductor type generator (alternator) is used. This type of generator generates a high amperage output in a highly efficient manner.

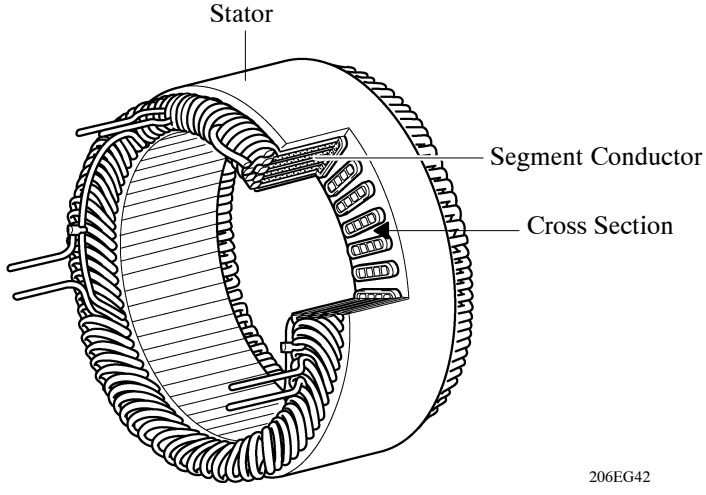
- This generator uses a joined segment conductor system, in which multiple segment conductors are welded together at the stator. Compared to the conventional winding system, the electrical resistance is reduced due to the shape of the segment conductors, and their arrangement helps to make the generator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



Segment Conductor Type Generator



Conventional Type Generator



Stator of Segment Conductor Type Generator

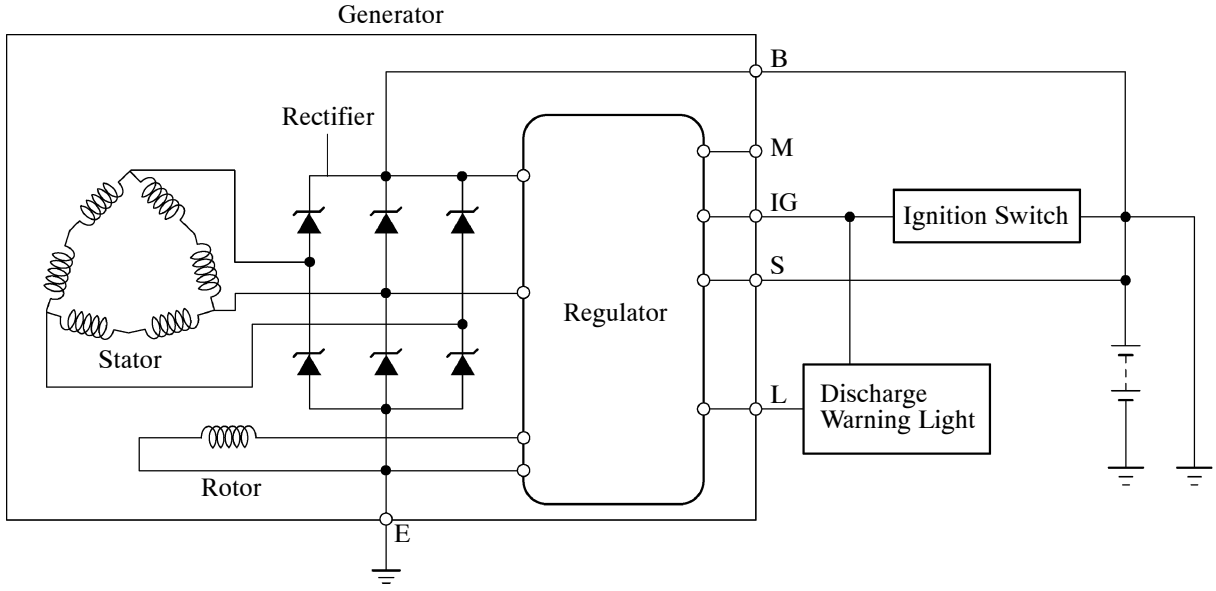
▶ Specifications ◀

Model	Standard, Deluxe and SR5 Grade*1	Limited Grade and SR5 Grade*2	With Towing Package
Type	**Segment Conductor**		
Rated Voltage	12 V		
Rated Output	100 A	130 A	150 A

*1: Without Rear Seat Entertainment System

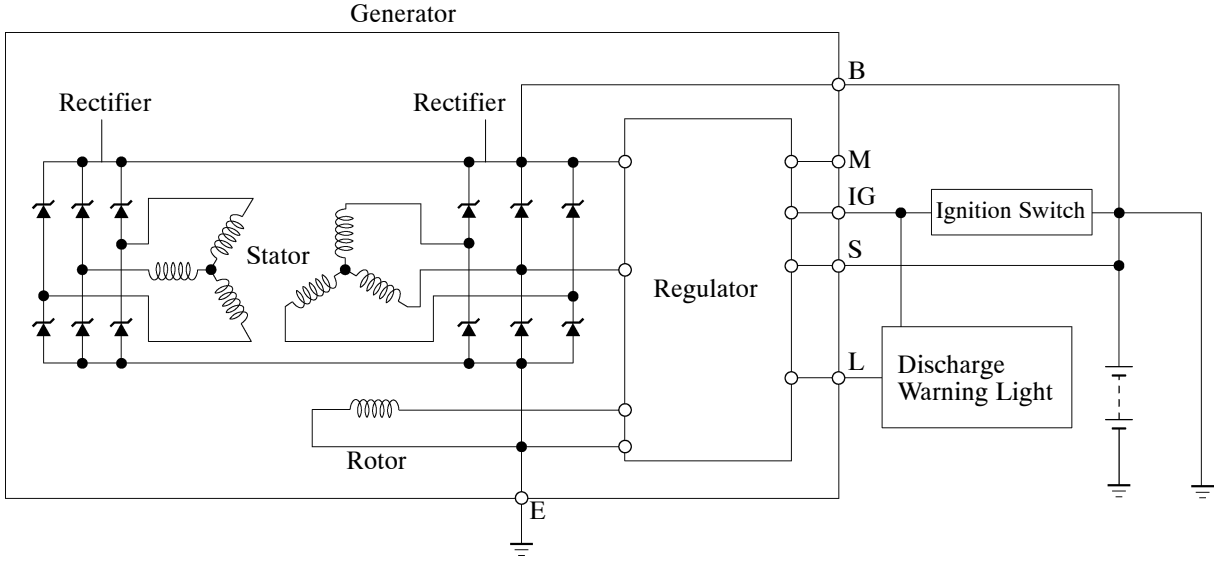
*2: With Rear Seat Entertainment System

▶ Wiring Diagram ◀



Standard, Deluxe and SR5 Grade*1

0310EG37C



04E0EG54C

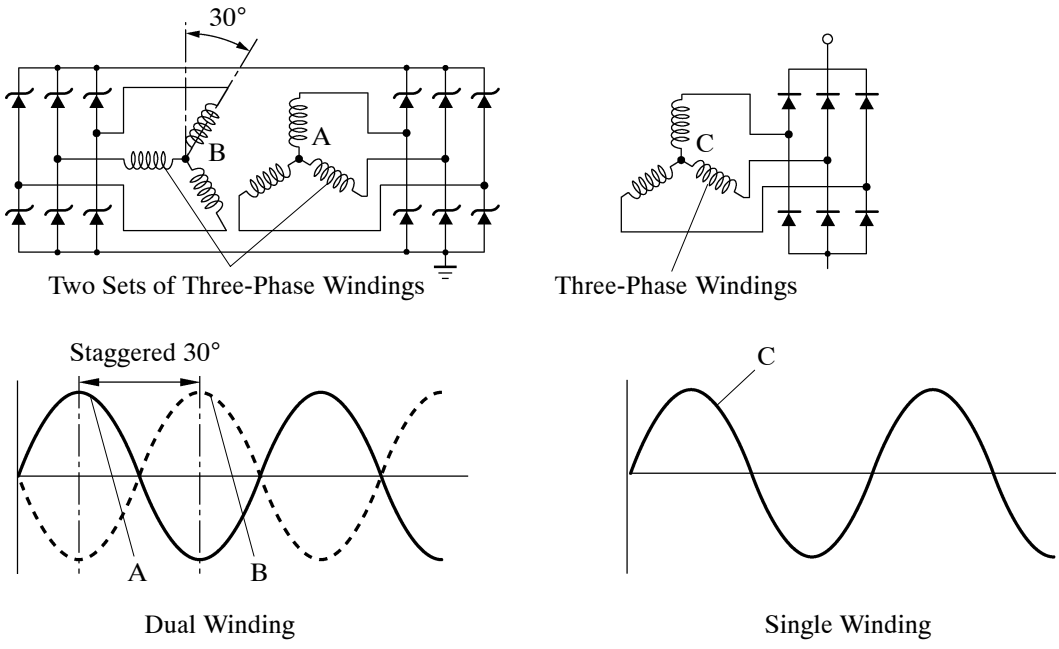
Limited Grade, SR5 Grade*2 and Models with Towing Package

*1: Without Rear Seat Entertainment System
*2: With Rear Seat Entertainment System

EG

2. Dual Winding System*

A dual winding system is used. This system consists of two sets of three-phase windings whose phases are staggered 30°. This system results in the reduction of both electrical noise (ripple and spike), and magnetic noise (a hum that is heard as alternator load is increased). This system significantly suppresses noise at the source (alternator). Because the waves that the respective windings generate have opposite polarities, magnetic noise is reduced. The magnetic noise is significantly reduced, but the electrical power generated does not cancel itself out, due to the use of separate rectifiers. The opposite polarities that are generated can be seen below.



Electromagnetic Pulsation (Magnetic Noise)

0270EG33C

*: This generator (alternator) is only used for limited grade models or models with the towing package.