■CHARGING SYSTEM

1. General

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

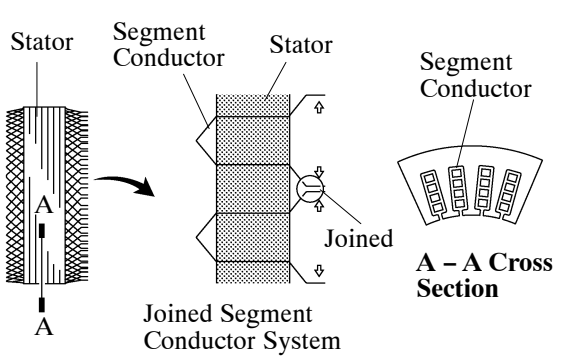
2. Segment Conductor Type Alternator

General

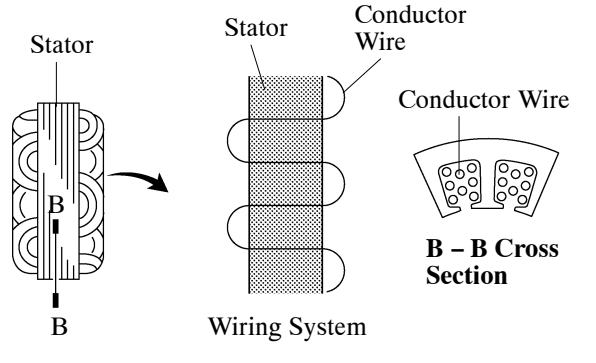
A compact and lightweight segment conductor type alternator that generates high amperage output in a highly efficient manner is used as standard equipment.

Construction

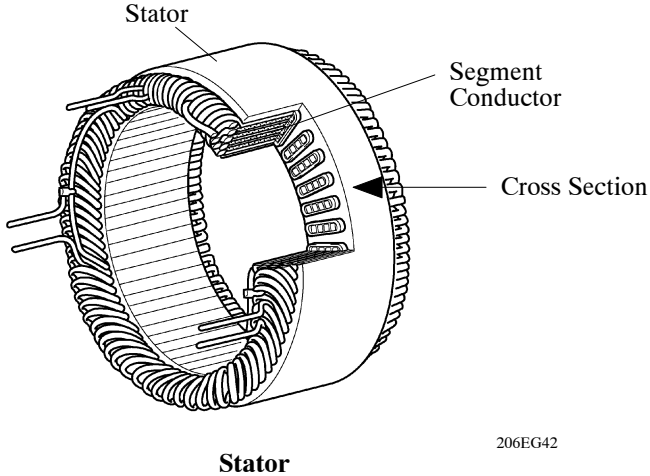
This alternator has a joined segment conductor system, in which multiple segment conductors are welded together to form the stator. Compared to the conventional wiring system, the electrical resistance is reduced due to the shape of the segment conductors, and their arrangement helps to make the alternator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



Segment Conductor Type



Conventional Type

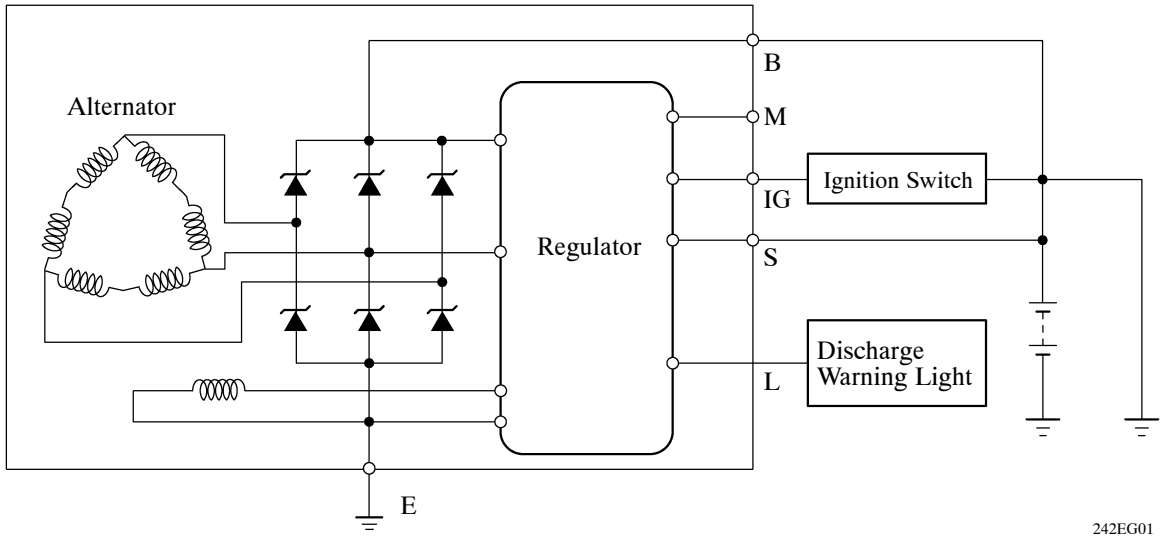


Stator

▶ Specifications ◀

Type	SE0
Rated Voltage	12 V
Rated Output	100 A
Initial Output Starting Speed	1500 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 Hiace Repair Manual (Pub. No. RM1171E).

■STARTING SYSTEM

- On automatic transmission models and cold area specification manual transmission models, a conventional reduction type starter is used.
- On manual transmission models other than the cold area specification models, a conventional planetary reduction type starter is used.

▶ Specifications ◀

Transmission Type	Manual		Automatic
	Cold Area Specification Models	Others	
Starter Type	R2.7	RA2.0	R2.7
	Reduction Type	←	←
Supplier	DENSO	←	←
Rating Output	2.7 kW	2.0 kW	2.7 kW
Rating Voltage	12 V	←	←
Length*1 mm (in.)	214 (8.4)	133 (8.4)	214 (8.4)
Weight g (lb)	8400 (18.5)	4950 (10.9)	8400 (18.5)
Rotation Direction*2	Clockwise	←	←

*1: Length from the mounted area to the rear end of the starter
*2: Viewed from Pinion Side